

DTC	B1000/31	AIRBAG ECU ASSY MALFUNCTION
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CIRCUIT DESCRIPTION

The airbag ECU Assy consists of the airbag sensor, the safing sensor, the drive circuit, the diagnostic circuit, the ignition control, etc.

If the airbag ECU Assy receives signals from the airbag sensor, it determines whether or not the SRS should be activated.

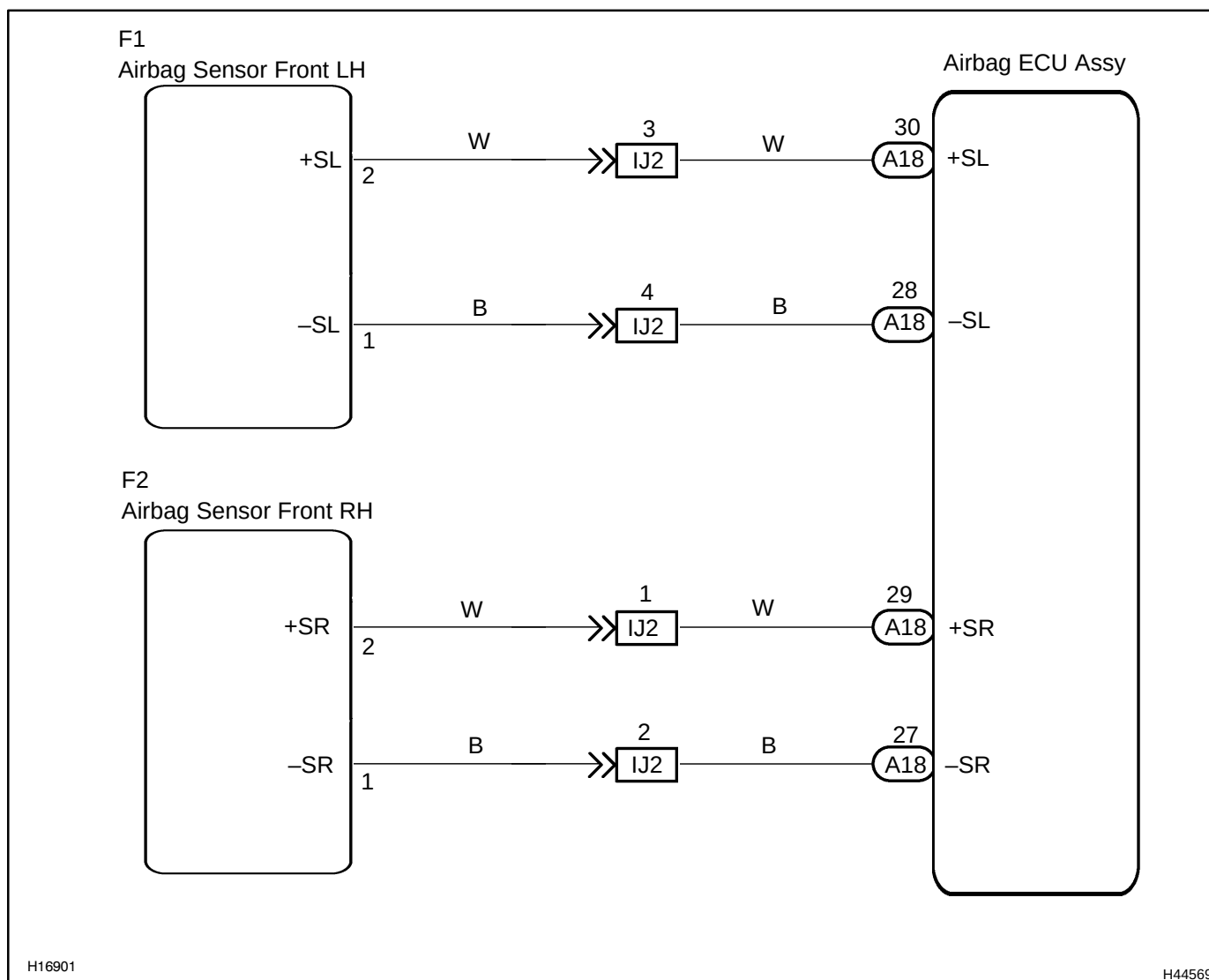
B1000 is recorded when a malfunction is detected in the airbag ECU Assy.

DTC No.	DTC Detecting Condition	Trouble Area
B1000	• Airbag ECU Assy malfunction • When the airbag ECU Assy receives a line short signal, short to ground signal or B+ short signal in the front airbag sensor LH circuit for 2 seconds. • When the airbag ECU Assy receives a line short signal, short to ground signal or B+ short signal in the front airbag sensor RH circuit for 2 seconds.	• Instrument panel wire • Engine room main wire • Airbag ECU Assy

HINT:

When a trouble code is displayed simultaneously with B1000, repair the malfunction indicated by this code (except B1000) first.

WIRING DIAGRAM



H16901

H44569

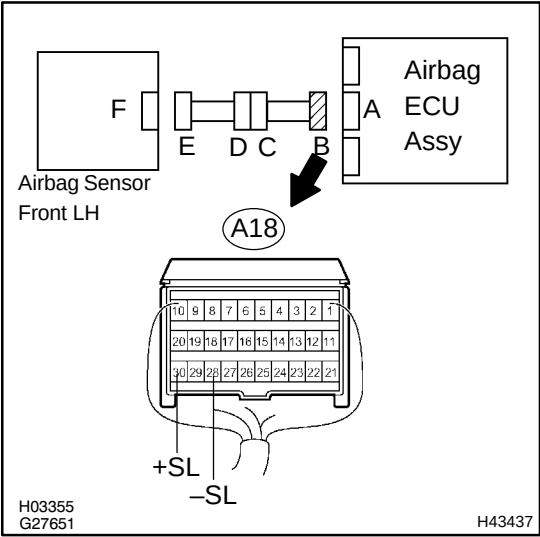
INSPECTION PROCEDURE

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 FRONT AIRBAG SENSOR (LH) CIRCUIT(TO B+)



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

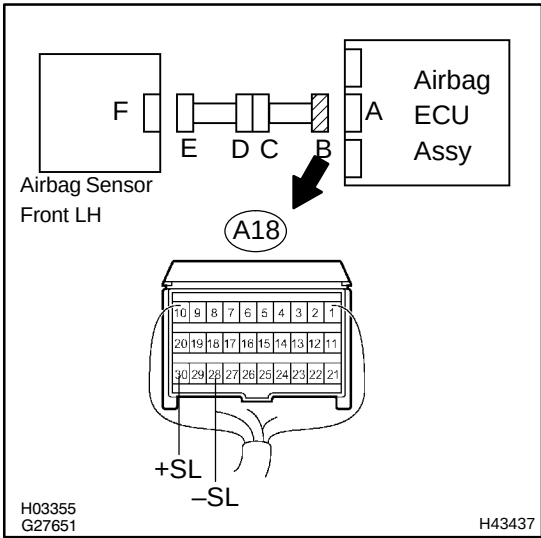
Standard:

Tester connection	Condition	Specified condition
A18-30 (+SL) – Body ground	Power switch is on (IG)	Below 1 V
A18-28 (–SL) – Body ground	Power switch is on (IG)	Below 1 V

NG Go to step 8

OK

2 CHECK FRONT AIRBAG SENSOR (LH) CIRCUIT(SHORT)



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

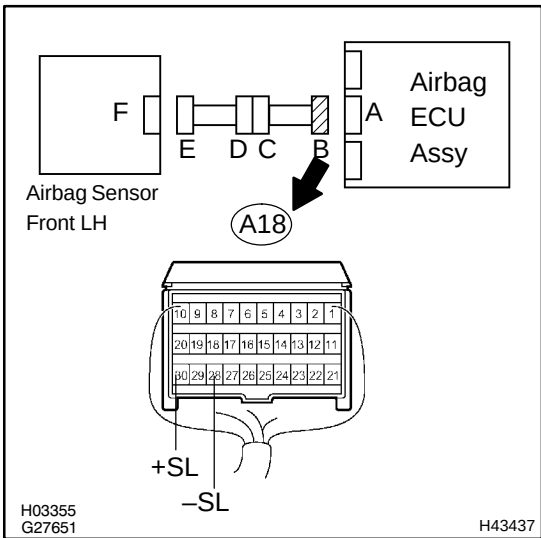
Standard:

Tester connection	Condition	Specified condition
A18–30 (+SL) – A18–28 (–SL)	Always	1 MΩ or Higher

NG Go to step 9

OK

3 CHECK FRONT AIRBAG SENSOR (LH) CIRCUIT(TO GROUND)



- (a) Measure the resistance according to the value(s) in the table below.

Standard:

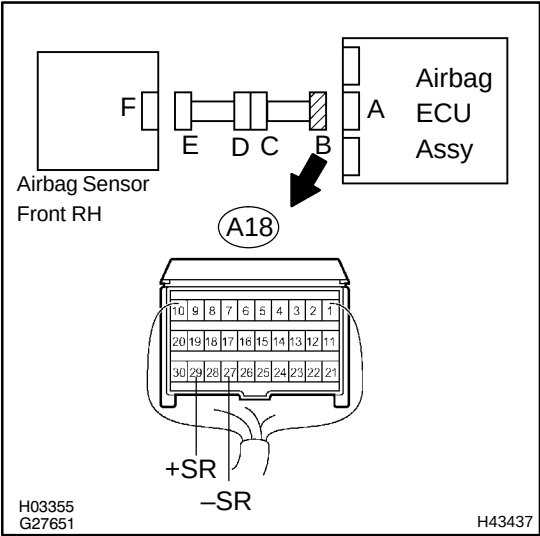
Tester connection	Condition	Specified condition
A18–30 (+SL) – Body ground	Always	1 MΩ or Higher
A18–28 (–SL) – Body ground	Always	1 MΩ or Higher

NG Go to step 10

OK

4

CHECK FRONT AIRBAG SENSOR (RH) CIRCUIT(TO B+)



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

Standard:

Tester connection	Condition	Specified condition
A18–29 (+SR) – Body ground	Power switch is on (IG)	Below 1 V
A18–27 (–SR) – Body ground	Power switch is on (IG)	Below 1 V

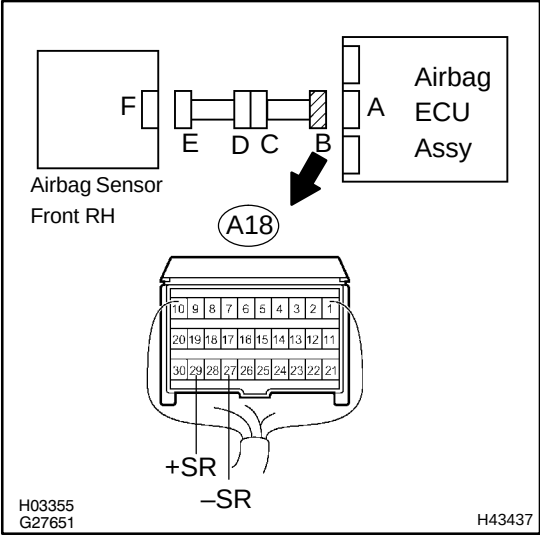
NG

Go to step 11

OK

5

CHECK FRONT AIRBAG SENSOR (RH) CIRCUIT(SHORT)



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

Standard:

Tester connection	Condition	Specified condition
A18–29 (+SR) – A18–27 (–SR)	Always	1 MΩ or Higher

NG

Go to step 12

OK

[illegible]

- Standard:**

Tester connection	Condition	Specified condition
A18–29 (+SR) – Body ground	Always	1 M Ω or Higher
A18–27 (–SR) – Body ground	Always	1 M Ω or Higher

NG

Go to step 13

OK

- (a) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (b) Turn the power switch on (IG), and wait for at least 60 seconds.
- (c) Clear the DTCs stored in memory (see page 05–1402).
- (d) Turn the power switch off.
- (e) Turn the power switch on (IG), and wait for at least 60 seconds.
- (f) Check the DTCs (see page 05–1402).

OK:

DTC B1000 is not output.

HINT:

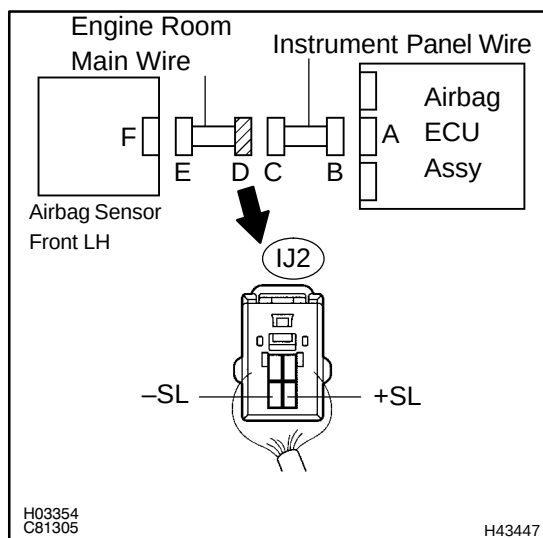
Codes other than code B1000 may be output at this time, but they are not related to this check.

NG

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

OK

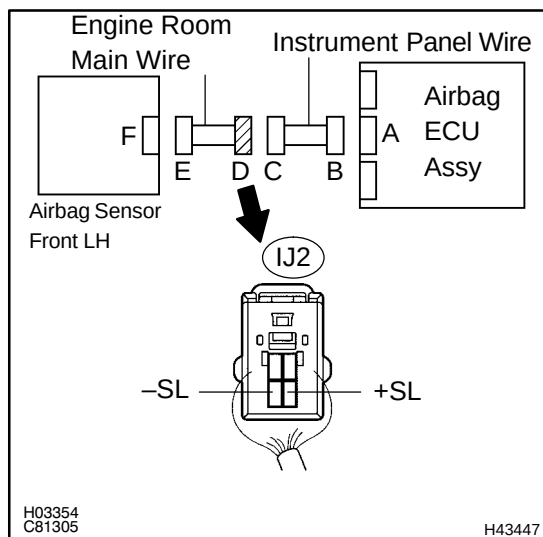
USE SIMULATION METHOD TO CHECK (SEE PAGE 05-1397)

8 CHECK ENGINE ROOM MAIN WIRE(TO B+)

- (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 engine room main wire connector from the instrument panel 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
IJ2-3 (+SL) – Body ground	Power switch is on (IG)	Below 1 V
IJ2-4 (-SL) – Body ground	Power switch is on (IG)	Below 1 V

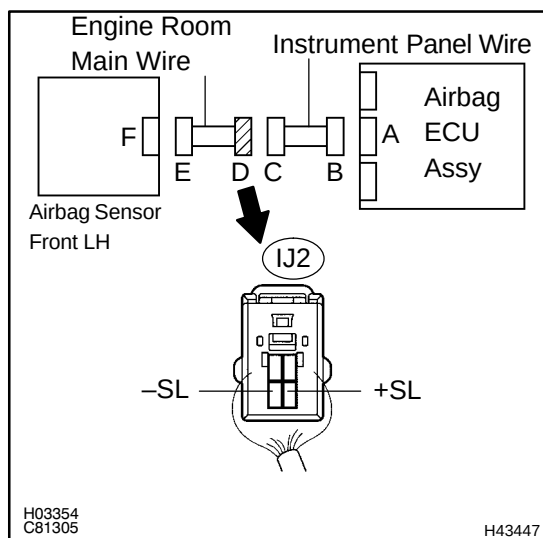
NG**REPAIR OR REPLACE ENGINE ROOM MAIN WIRE****OK****REPAIR OR REPLACE INSTRUMENT PANEL WIRE****9 CHECK ENGINE ROOM MAIN WIRE(SHORT)**

- (a) Disconnect the engine room main wire connector from the instrument panel wire.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
IJ2-3 (+SL) – IJ2-4 (-SL)	Always	1 MΩ or Higher

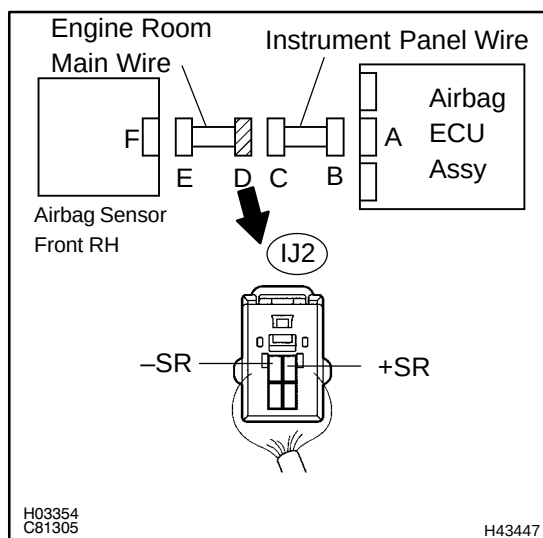
NG**REPAIR OR REPLACE ENGINE ROOM MAIN WIRE****OK****REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

10 CHECK ENGINE ROOM MAIN WIRE(TO GROUND)

- Disconnect the engine room main wire connector from the instrument panel wire.
- Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
IJ2-3 (+SL) – Body ground	Always	1 MΩ or Higher
IJ2-4 (-SL) – Body ground	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE ENGINE ROOM MAIN WIRE****OK****REPAIR OR REPLACE INSTRUMENT PANEL WIRE****11 CHECK ENGINE ROOM MAIN WIRE(TO B+)**

- Turn the power switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the engine room main wire connector from the instrument panel wire.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG).
- Measure the voltage according to the value(s) in the table below.

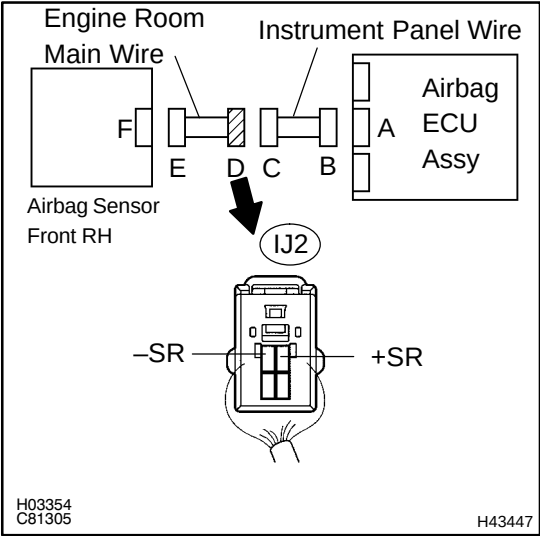
Standard:

Tester connection	Condition	Specified condition
IJ2-1 (+SR) – Body ground	Power switch is on (IG)	Below 1 V
IJ2-2 (-SR) – Body ground	Power switch is on (IG)	Below 1 V

NG**REPAIR OR REPLACE ENGINE ROOM MAIN WIRE****OK****REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

12

CHECK ENGINE ROOM MAIN WIRE(SHORT)



- (a) Disconnect the engine room main wire connector from the instrument panel wire.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
IJ2-1 (+SR) – IJ2-2 (-SR)	Always	1 MΩ or Higher

NG

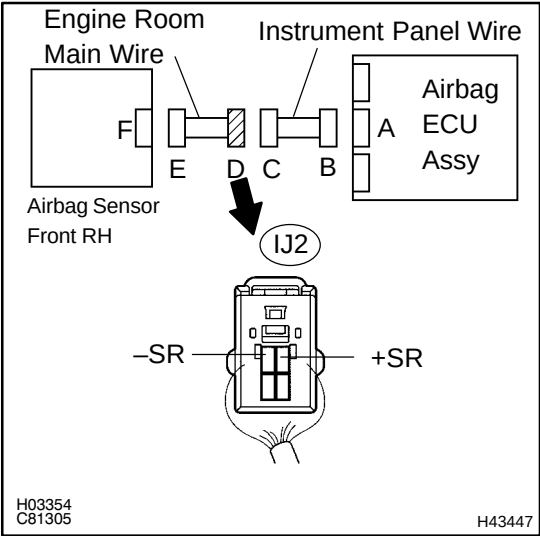
REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

13

CHECK ENGINE ROOM MAIN WIRE(TO GROUND)



- (a) Disconnect the engine room main wire connector from the instrument panel wire.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
IJ2-1 (+SR) – Body ground	Always	1 MΩ or Higher
IJ2-2 (-SR) – Body ground	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

DTC	B1610/13	FRONT AIRBAG SENSOR (RH) MALFUNCTION
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CIRCUIT DESCRIPTION

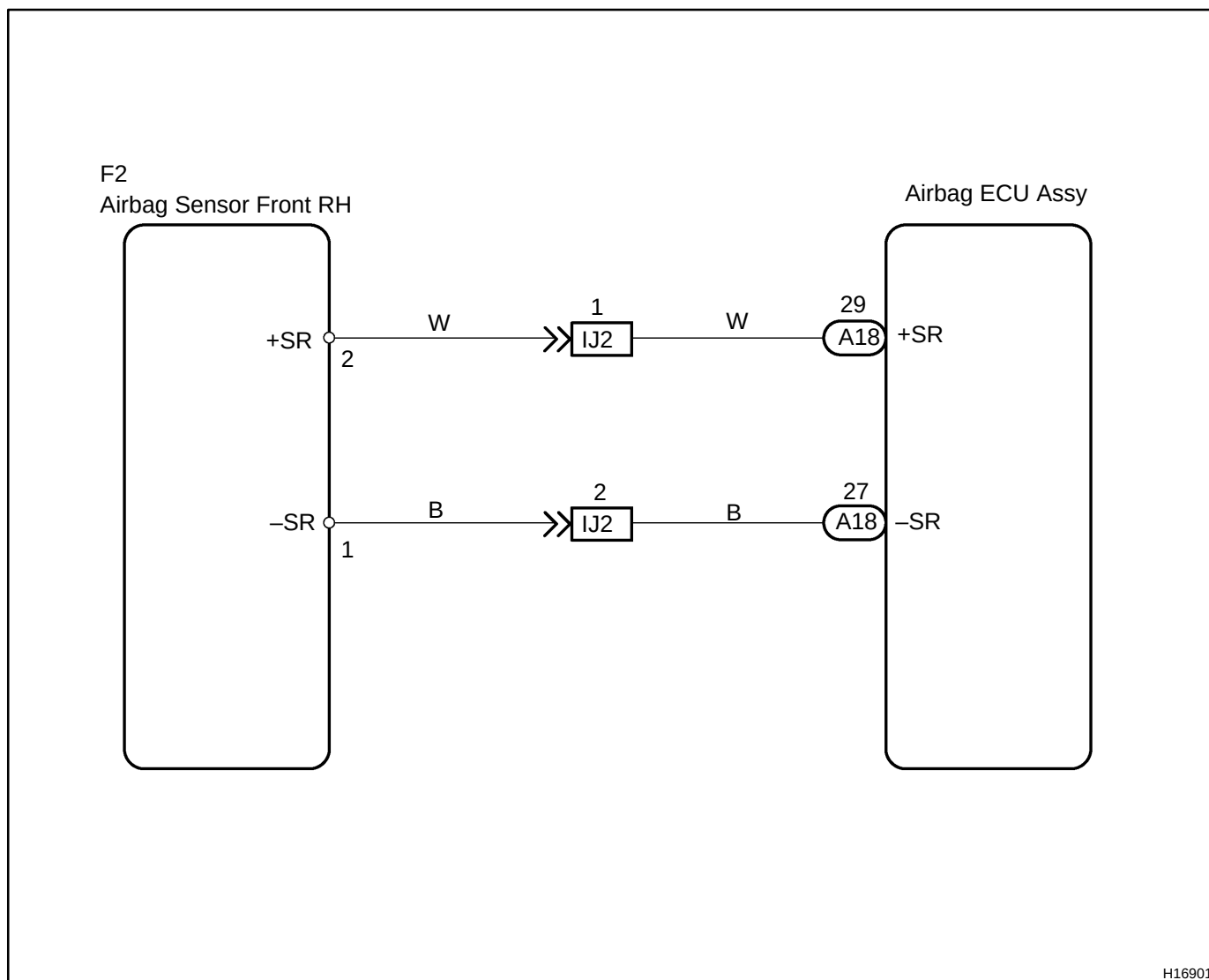
The front airbag sensor RH consists of the diagnostic circuit, the frontal deceleration sensor, etc.

If the airbag ECU Assy receives signals from the frontal deceleration sensor, it determines whether or not the SRS should be activated.

DTC B1610 is recorded when a malfunction is detected in the front airbag sensor RH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1610	• When the airbag ECU Assy receives an open signal in the front airbag sensor RH circuit for 2 seconds. • Airbag sensor front RH malfunction • Airbag ECU Assy malfunction	• Instrument panel wire • Engine room main wire • Airbag sensor front RH • Airbag ECU Assy

WIRING DIAGRAM



H16901

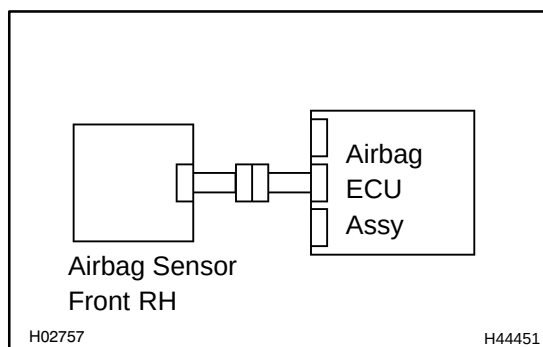
INSPECTION PROCEDURE

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 DTC



- (a) Connect the connectors to the airbag ECU Assy.
- (b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the power switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in memory (see page 05-1402).
- (e) Turn the power switch off.
- (f) Turn the power switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (see page 05-1402).

OK:

DTC B1610 is not output.

HINT:

Codes other than code B1610 may be output at this time, but they are not related to this check.

NG

Go to step 2

OK

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

2 CHECK CONNECTION OF CONNECTORS

- (a) Turn the power switch off.
- (b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Check that the connectors are properly connected to the airbag ECU Assy and the airbag sensor front RH.

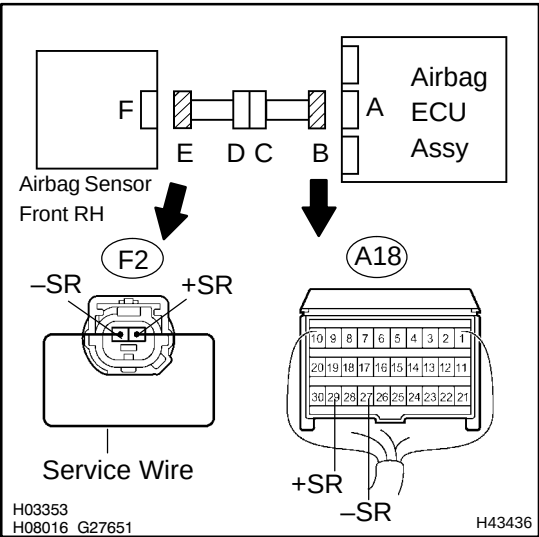
OK:
The connectors are connected.

NG

CONNECT CONNECTORS, THEN GO TO STEP 1

OK

3 CHECK FRONT AIRBAG SENSOR (RH) CIRCUIT (OPEN)



- (a) Disconnect the connectors from the airbag ECU Assy and the airbag sensor front RH.
- (b) Using a service wire, connect F2–2 (+SR) and F2–1 (–SR) of connector "E".

NOTICE:
Do not forcibly insert a service wire into the terminals of the connector when connecting.

- (c) Measure the resistance according to the value(s) in the table below.

Standard:

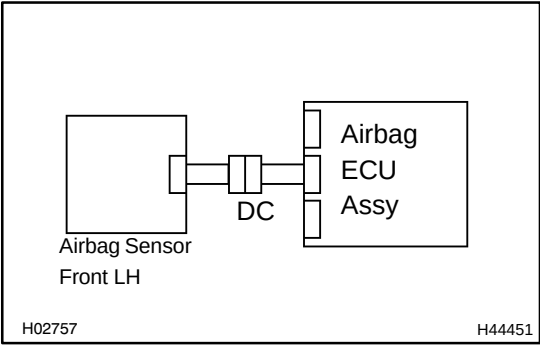
Tester connection	Condition	Specified condition
A18–29 (+SR) – A18–27 (–SR)	Always	Below 1 Ω

NG

Go to step 5

OK

4 CHECK AIRBAG SENSOR FRONT RH



- (a) Connect the connectors to the airbag ECU assy.
- (b) Interchange the airbag sensor front RH with the airbag sensor front LH and connect the connectors to them.
- (c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (d) Turn the power switch on (IG), and wait for at least 60 seconds.
- (e) Clear the DTCs stored in memory (see page 05-1402).
- (f) Turn the power switch off.
- (g) Turn the power switch on (IG), and wait for at least 60 seconds.
- (h) Check the DTCs (see page 05-1402).

Result:

DTC B1610 is output.	A
DTC B1615 is output.	B
DTC B1610 or B1615 are not output.	C

A

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

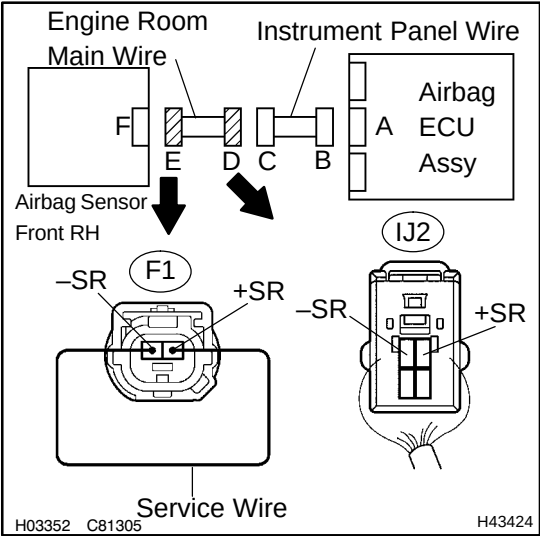
B

REPLACE AIRBAG SENSOR FRONT RH
(SEE PAGE 60-56)

C

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

5 CHECK ENGINE ROOM MAIN WIRE(OPEN)



- (a) Disconnect the engine room main wire connector from the instrument panel wire.
- HINT:
The service wire has already been inserted into connector "E".
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
IJ2-1 (+SR) – IJ2-2 (–SR)	Always	Below 1 Ω

NG

REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

DTC	B1615/14	FRONT AIRBAG SENSOR (LH) MALFUNCTION
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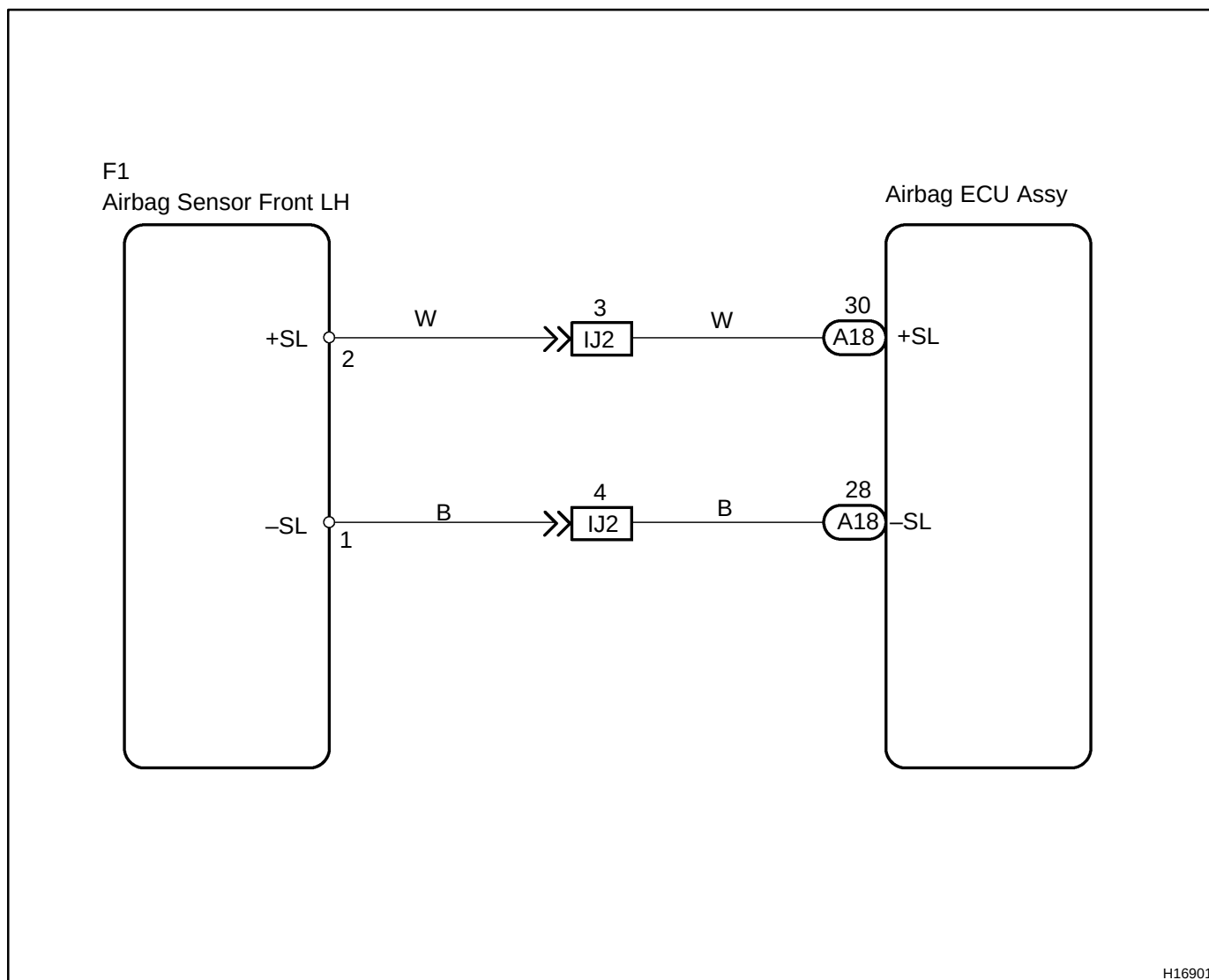
CIRCUIT DESCRIPTION

The front airbag sensor LH consists of the diagnostic circuit and the frontal deceleration sensor, etc. If the airbag ECU Assy receives signals from the frontal deceleration sensor, it determines whether or not the SRS should be activated.

DTC B1615 is recorded when a malfunction is detected in the front airbag sensor LH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1615	- When the airbag ECU Assy receives an open signal in the front airbag sensor LH circuit for 2 seconds. - Airbag sensor front LH malfunction - Airbag ECU Assy malfunction	- Instrument panel wire - Engine room main wire - Airbag sensor front LH - Airbag ECU Assy

WIRING DIAGRAM



H16901

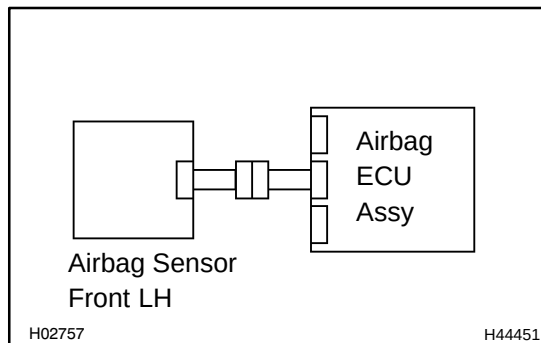
INSPECTION PROCEDURE

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 DTC



- (a) Connect the connectors to the airbag ECU Assy.
- (b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the power switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in memory (see page 05-1402).
- (e) Turn the power switch off.
- (f) Turn the power switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (see page 05-1402).

OK:

DTC B1615 is not output.

HINT:

Codes other than code B1615 may be output at this time, but they are not related to this check.

NG

Go to step 2

OK

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

2 CHECK CONNECTION OF CONNECTORS

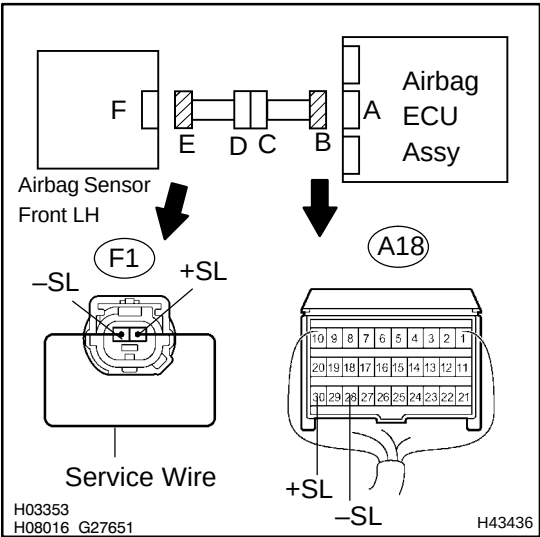
- (a) Turn the power switch off.
- (b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Check that the connector is properly connected to the airbag ECU Assy and the airbag sensor front LH.

OK:
The connectors are connected.

NG **CONNECT CONNECTORS, THEN GO TO STEP 1**

OK

3 CHECK FRONT AIRBAG SENSOR (LH) CIRCUIT(OPEN)



- (a) Disconnect the connectors from the airbag ECU Assy and the airbag sensor front LH.
- (b) Using a service wire, connect F1-2 (+SL) and F1-1 (–SL) of connector "E".

NOTICE:
Do not forcibly insert a service wire into the terminals of the connector when connecting.

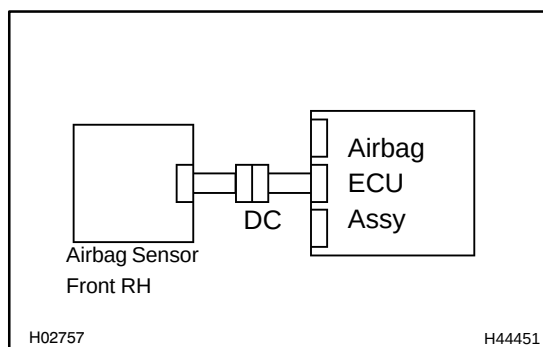
- (c) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A18-30 (+SL) – A18-28 (–SL)	Always	Below 1 Ω

NG **Go to step 5**

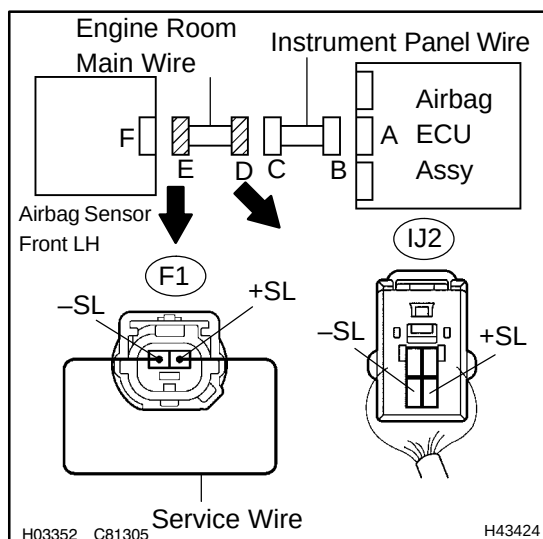
OK

4 CHECK AIR BAG SENSOR FRONT LH

- Connect the connectors to the airbag ECU assy.
- Interchange the airbag sensor front RH with the airbag sensor front LH and connect the connectors to them.
- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in memory (see page 05-1402).
- Turn the power switch off.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (see page 05-1402).

Result:

DTC B1615 is output.	A
DTC B1610 is output.	B
DTC B1610 or B1615 are not output.	C

A**REPLACE AIR BAG ECU ASSY
(SEE PAGE 60-54)****B****REPLACE AIR BAG SENSOR FRONT LH
(SEE PAGE 60-56)****C****USE SIMULATION METHOD TO CHECK (SEE PAGE 05-1397)****5 CHECK ENGINE ROOM MAIN WIRE(OPEN)**

- Disconnect the engine room main wire connector from the instrument panel wire.

HINT:

The service wire has already been inserted into connector "E".

- Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
IJ2-3 (+SL) – IJ2-4 (–SL)	Always	Below 1 Ω

NG**REPAIR OR REPLACE ENGINE ROOM MAIN WIRE****OK****REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

DTC	B1620/21	SIDE AIRBAG SENSOR ASSEMBLY (D SEAT SIDE) MALFUNCTION
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CIRCUIT DESCRIPTION

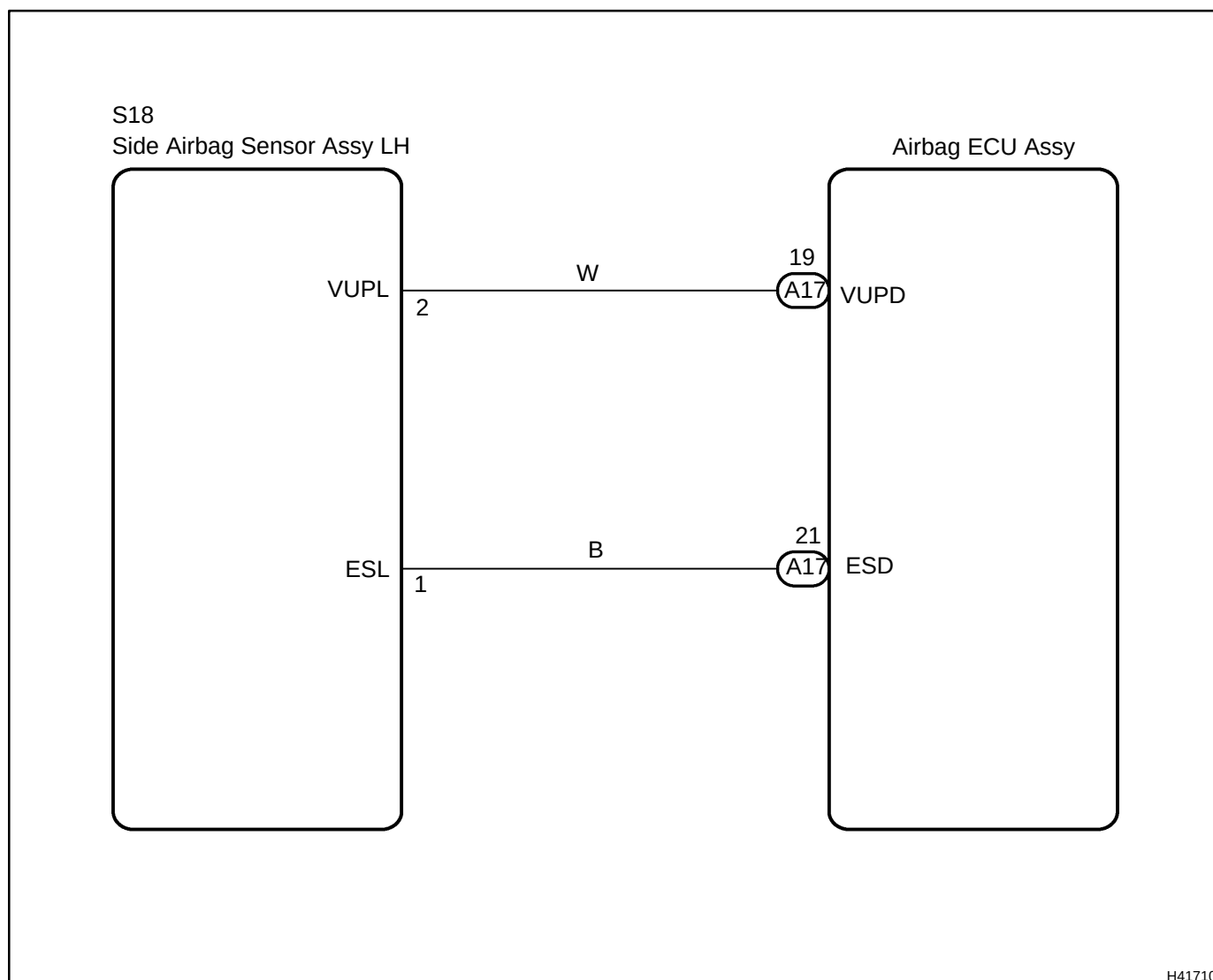
The side airbag sensor assembly (D seat side) consists of the safing sensor, the diagnostic circuit, the lateral deceleration sensor, etc.

If the airbag ECU Assy receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.

DTC B1620 is recorded when a malfunction is detected in the side airbag sensor assembly (D seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1620	- When the Airbag ECU Assy receives a line short signal, open signal, short to ground signal or B+ short signal in the side airbag sensor assembly (D seat side) circuit for 2 seconds. - Side airbag sensor Assy LH malfunction - Airbag ECU Assy malfunction	- Floor wire - Side airbag sensor Assy LH - Airbag ECU Assy

WIRING DIAGRAM



H41710

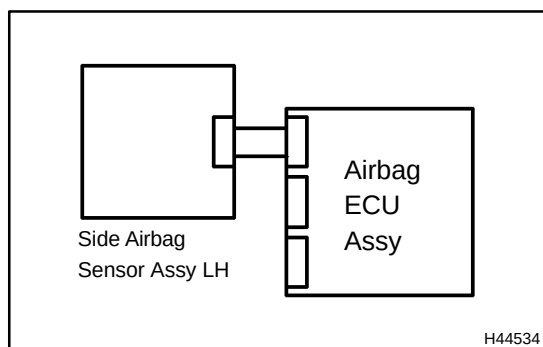
INSPECTION PROCEDURE

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 DTC



- (a) Connect the connectors to the airbag ECU Assy.
- (b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the power switch is on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in memory (see page 05-1402).
- (e) Turn the power switch off.
- (f) Turn the power switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (see page 05-1402).

OK:

DTC B1620 is not output.

HINT:

Codes other than code B1620 may be output at this time, but they are not related to this check.

NG

Go to step 2

OK

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

2 CHECK CONNECTION OF CONNECTORS

- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Check that the connectors are properly connected to the airbag ECU Assy and the side airbag sensor Assy LH.

OK:

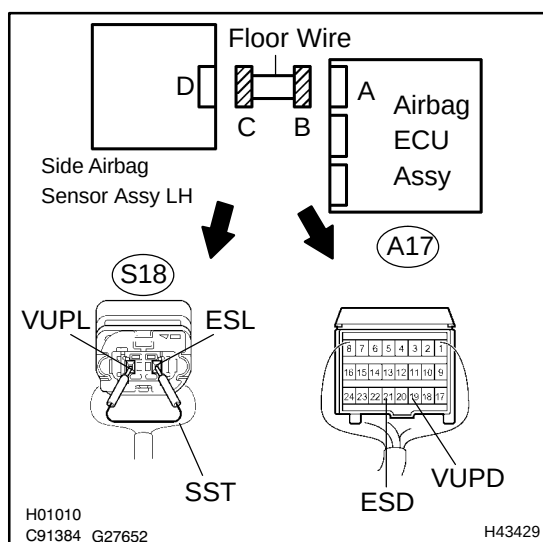
The connectors are connected.

NG

CONNECT CONNECTORS, THEN GO TO STEP 1

OK

3 CHECK FLOOR WIRE(OPEN)



- Disconnect the connectors from the airbag ECU Assy and the side airbag sensor Assy LH.
- Using SST, connect S18-2 (VUPL) and S18-1 (ESL) of connector "C".
SST 09843-18040
- Measure the resistance according to the value(s) in the table below.

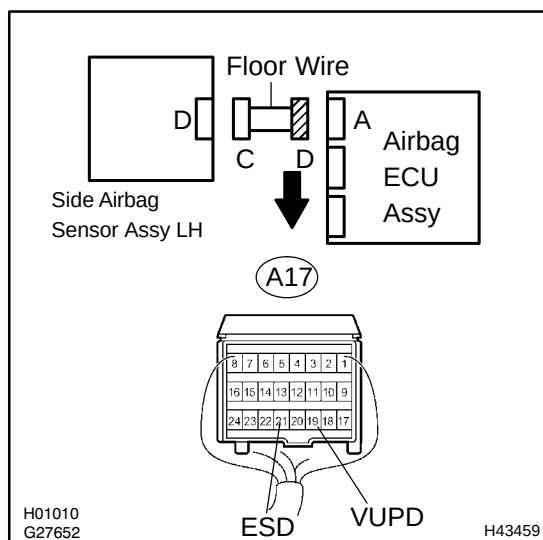
Standard:

Tester connection	Condition	Specified condition
A17-19 (VUPD) – A17-21 (ESD)	Always	Below 1 Ω

NG

REPAIR OR REPLACE FLOOR WIRE

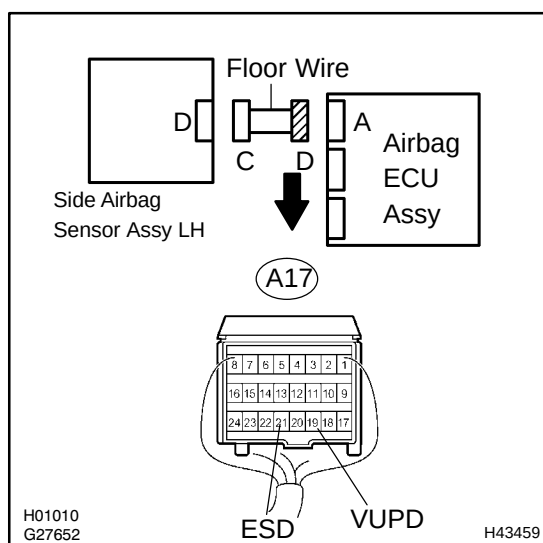
OK

4 CHECK FLOOR WIRE(SHORT)

- Disconnect the SST from connector "C".
- Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A17-19 (VUPD) – A17-21 (ESD)	Always	1 MΩ or Higher

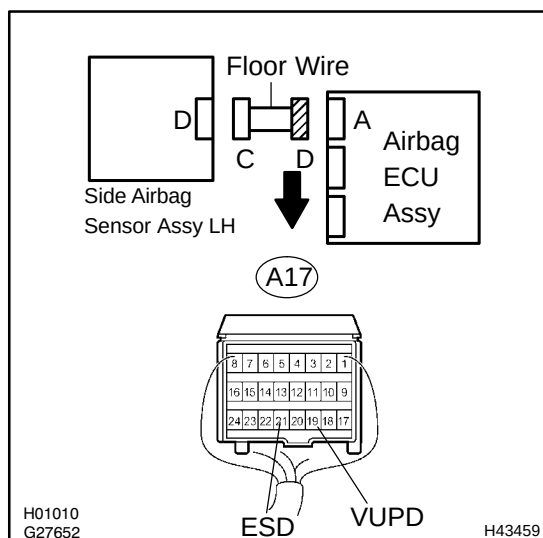
NG**REPAIR OR REPLACE FLOOR WIRE****OK****5 CHECK FLOOR WIRE(TO B+)**

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

Standard:

Tester connection	Condition	Specified condition
A17-19 (VUPD) – Body ground	Power switch is on (IG)	Below 1 V
A17-21 (ESD) – Body ground	Power switch is on (IG)	Below 1 V

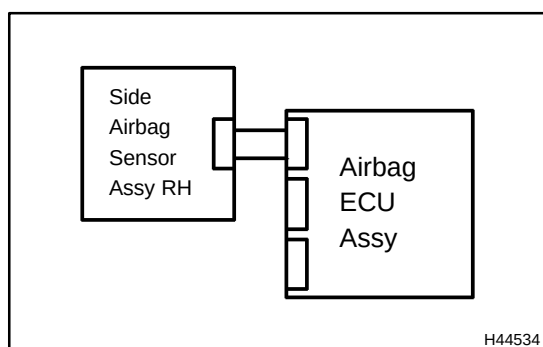
NG**REPAIR OR REPLACE FLOOR WIRE****OK**

6 CHECK FLOOR WIRE(TO GROUND)

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

Standard:

Tester connection	Condition	Specified condition
A17–19 (VUPD) – Body ground	Always	1 MΩ or Higher
A17–21 (ESD) – Body ground	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE FLOOR WIRE****OK****7 CHECK SIDE AIR BAG SENSOR ASSY LH**

- (a) Connect the connectors to the airbag ECU assy.
- (b) Interchange the side airbag sensor assy LH with RH and connect the connectors to them.
- (c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (d) Turn the power switch on (IG), and wait for at least 60 seconds.
- (e) Clear the DTCs stored in memory (see page 05-1402).
- (f) Turn the power switch off.
- (g) Turn the power switch on (IG), and wait for at least 60 seconds.
- (h) Check the DTCs (see page 05-1402).

Result:

DTC B1620 is output.	A
DTC B1625 is output.	B
DTC B1620 or B1625 are not output.	C

A**REPLACE AIR BAG ECU ASSY
(SEE PAGE 60-54)****B****REPLACE SIDE AIR BAG SENSOR ASSY LH
(SEE PAGE 60-58)****C****USE SIMULATION METHOD TO CHECK (SEE PAGE 05-1397)**

DTC	B1625/22	SIDE AIRBAG SENSOR ASSEMBLY (P SEAT SIDE) MALFUNCTION
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CIRCUIT DESCRIPTION

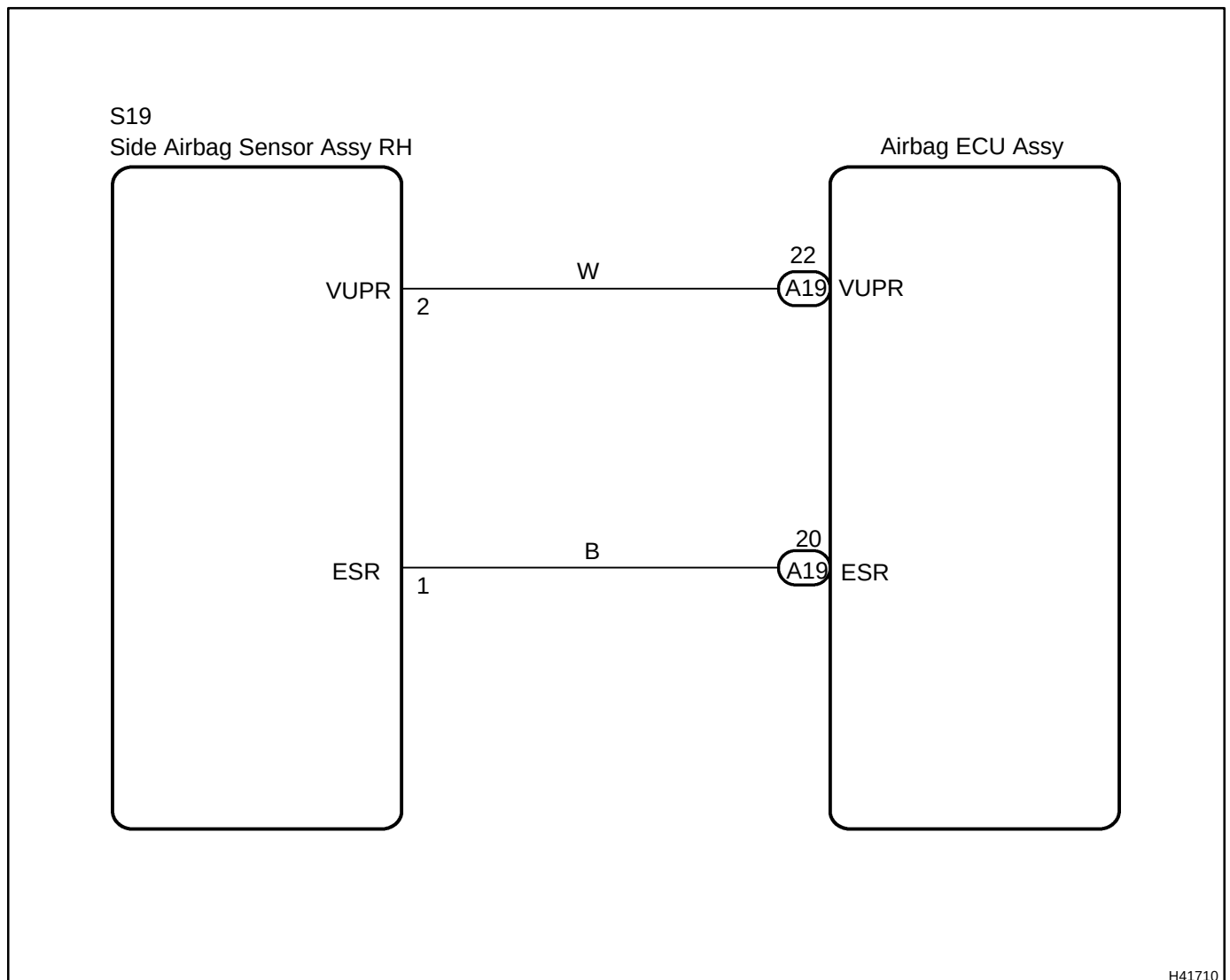
The side airbag sensor assembly (P seat side) consists of the safing sensor, the diagnostic circuit, the lateral deceleration sensor, etc.

If the airbag ECU Assy receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.

DTC B1625 is recorded when a malfunction is detected in the side airbag sensor assembly (P seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1625	- When the airbag ECU Assy receives a line short signal, open signal, short to ground signal or B+ short signal in the side airbag sensor assembly (P seat side) circuit for 2 seconds. - Side airbag sensor Assy RH malfunction - Airbag ECU Assy malfunction	- Floor wire - Side airbag sensor Assy RH - Airbag ECU Assy

WIRING DIAGRAM



H41710

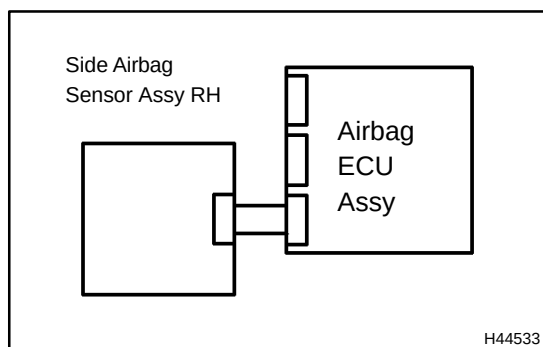
INSPECTION PROCEDURE

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 DTC



- (a) Connect the connectors to the airbag ECU Assy.
- (b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the power switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in memory (see page 05-1402).
- (e) Turn the power switch off.
- (f) Turn the power switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (see page 05-1402).

OK:

DTC B1625 is not output.

HINT:

Codes other than code B1625 may be output at this time, but they are not related to this check.

NG

Go to step 2

OK

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

2

CHECK CONNECTION OF CONNECTORS

- (a)
- Turn the power switch off.
- (b)
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- (c)
- Check that the connectors are properly connected to the airbag ECU Assy and the side airbag sensor Assy RH.

OK:

The connectors are connected.

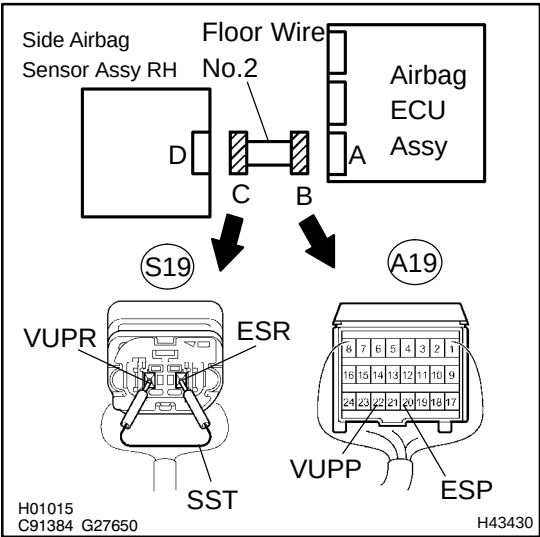
NG

CONNECT CONNECTORS, THEN GO TO STEP 1

OK

3

CHECK FLOOR WIRE NO.2(OPEN)



- (a)
- Disconnect the connectors from the airbag ECU Assy and the side airbag sensor Assy RH.
- (b)
- Using SST, connect S19-2 (VUPR) and S19-1 (ESR) of connector "C".
SST 09843-18040
- (c)
- Measure the resistance according to the value(s) in the table below.

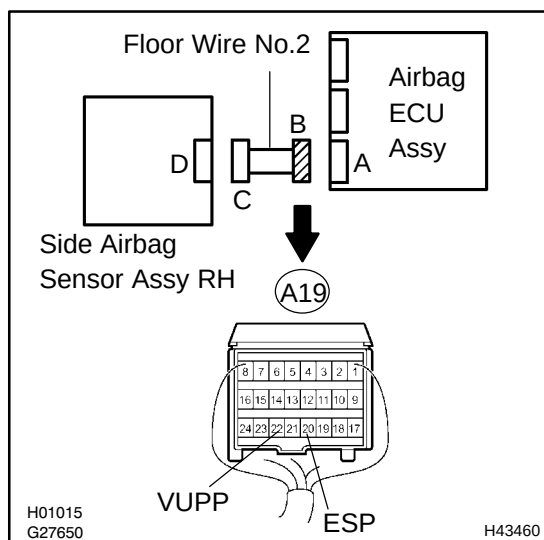
Standard:

Tester connection	Condition	Specified condition
A19-22 (VUPP) – A19-20 (ESP)	Always	Below 1 Ω

NG

REPAIR OR REPLACE FLOOR WIRE NO.2

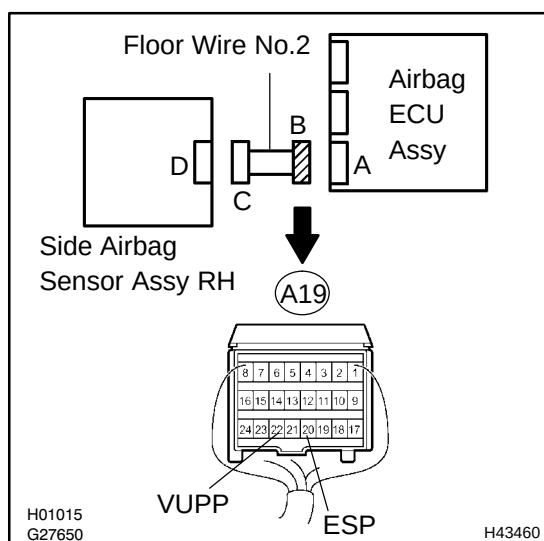
OK

4 CHECK FLOOR WIRE NO.2(SHORT)

- (a) Disconnect the SST from connector "C".
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A19-22 (VUPP) – A19-20 (ESP)	Always	1 MΩ or Higher

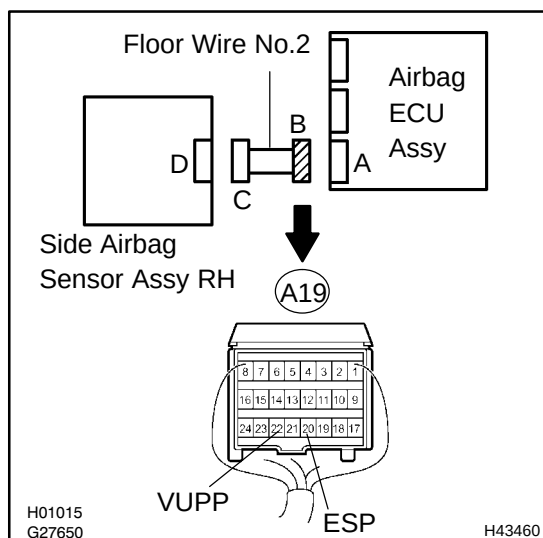
NG**REPAIR OR REPLACE FLOOR WIRE NO.2****OK****5 CHECK FLOOR WIRE NO.2(TO B+)**

- (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
A19-22 (VUPP) – Body ground	Power switch is on (IG)	Below 1 V
A19-20 (ESP) – Body ground	Power switch is on (IG)	Below 1 V

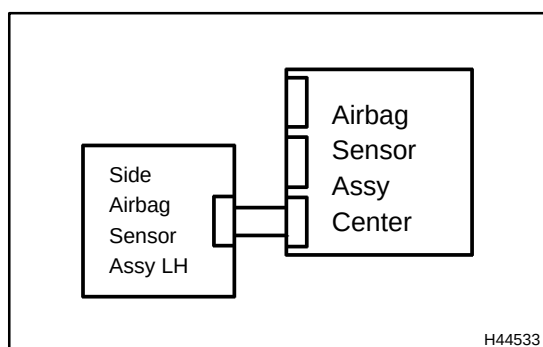
NG**REPAIR OR REPLACE FLOOR WIRE NO.2****OK**

6 CHECK FLOOR WIRE NO.2(TO GROUND)

- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A19–22 (VUUP) – Body ground	Always	1 MΩ or Higher
A19–20 (ESP) – Body ground	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE FLOOR WIRE NO.2****OK****7 CHECK SIDE AIR BAG SENSOR ASSY RH**

- Connect the connectors to the airbag ECU assy.
- Interchange the side airbag sensor assy LH with RH and connect the connectors to them.
- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in memory (see page 05-1402).
- Turn the power switch off.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (see page 05-1402).

Result:

DTC B1625 is output.	A
DTC B1620 is output.	B
DTC B1620 or B1625 are not output.	C

A**REPLACE AIR BAG ECU ASSY
(SEE PAGE 60-54)****B****REPLACE SIDE AIR BAG SENSOR ASSY RH
(SEE PAGE 60-58)****C****USE SIMULATION METHOD TO CHECK (SEE PAGE 05-1397)**

DTC	B1630/23	CURTAIN SHIELD AIRBAG SENSOR (D SEAT SIDE) MALFUNCTION
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CIRCUIT DESCRIPTION

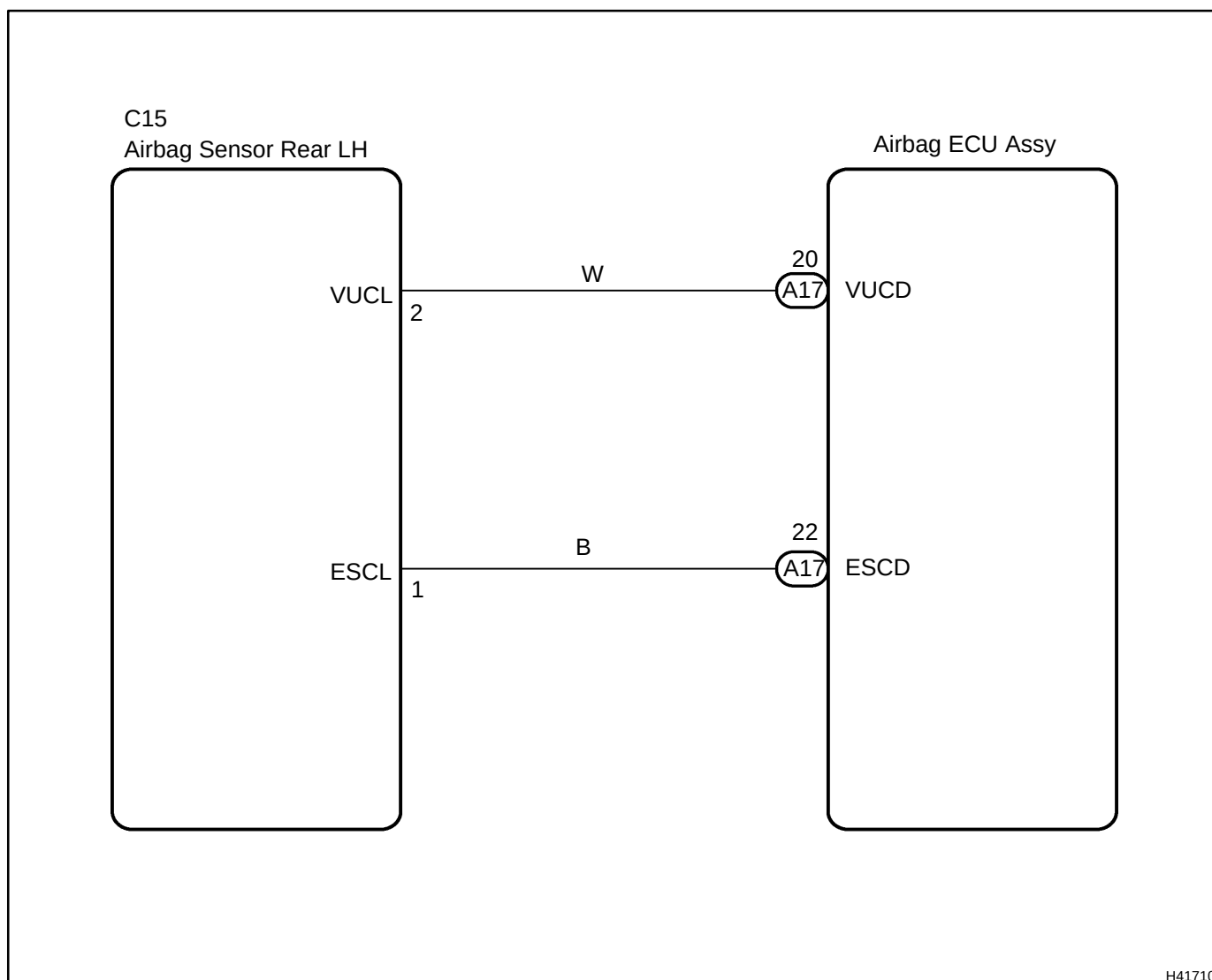
The curtain shield airbag sensor (D seat side) consists of the safing sensor, the diagnostic circuit, the lateral deceleration sensor, etc.

If the airbag ECU Assy receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.

DTC B1630 is recorded when a malfunction is detected in the curtain shield airbag sensor (D seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1630	- When the airbag sensor Assy receives a line short signal, open signal, short to ground signal or B+ short signal in the curtain shield airbag sensor (D seat side) circuit for 2 seconds. - Airbag sensor rear LH malfunction - Airbag ECU Assy malfunction	- Floor wire - Airbag sensor rear LH - Airbag ECU Assy

WIRING DIAGRAM



H41710

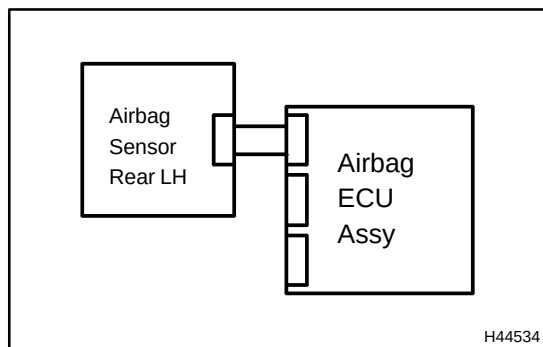
INSPECTION PROCEDURE

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 DTC



- (a) Connect the connectors to the airbag ECU Assy.
- (b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the power switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in memory (see page 05-1402).
- (e) Turn the power switch off.
- (f) Turn the power switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (see page 05-1402).

OK:

DTC B1630 is not output.

HINT:

Codes other than code B1630 may be output at this time, but they are not related to this check.

NG

Go to step 2

OK

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

2 CHECK CONNECTION OF CONNECTORS

- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Check that the connectors are properly connected to the airbag ECU Assy and the airbag sensor rear LH.

OK:

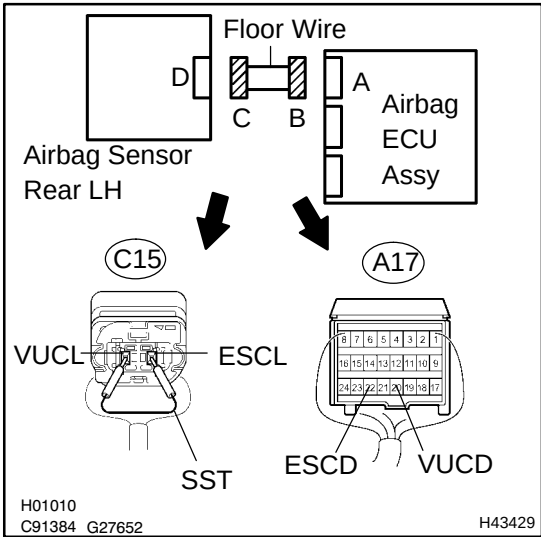
The connectors are connected.

NG

CONNECT CONNECTORS, THEN GO TO STEP 1

OK

3 CHECK FLOOR WIRE(OPEN)



- Disconnect the connectors from the airbag ECU Assy and the airbag sensor rear LH.
- Using SST, connect C15-2 (VUCL) and C15-1 (ESCL) of connector "C".
SST 09843-18040
- Measure the resistance according to the value(s) in the table below.

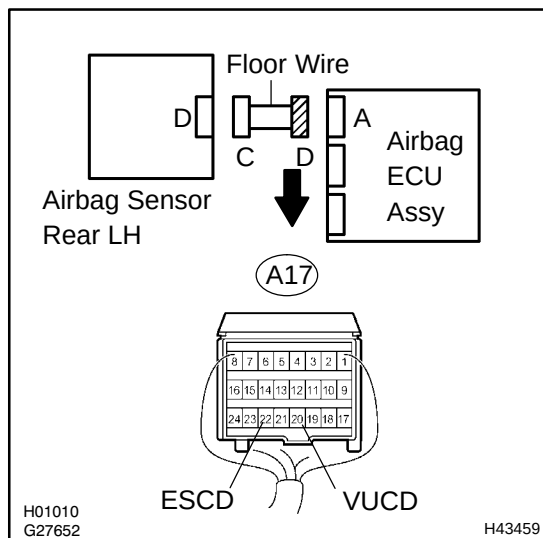
Standard:

Tester connection	Condition	Specified condition
A17-20 (VUCD) – A17-22 (ESCD)	Always	Below 1 Ω

NG

REPAIR OR REPLACE FLOOR WIRE

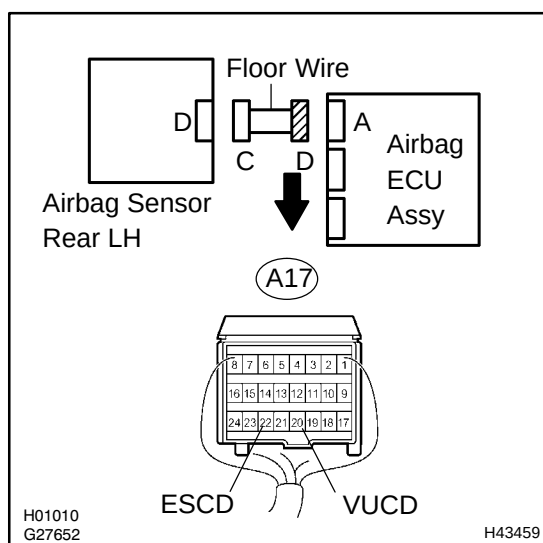
OK

4 CHECK FLOOR WIRE(SHORT)

- Disconnect the SST from connector "C".
- Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A17-20 (VUCD) – A17-22 (ESCD)	Always	1 MΩ or Higher

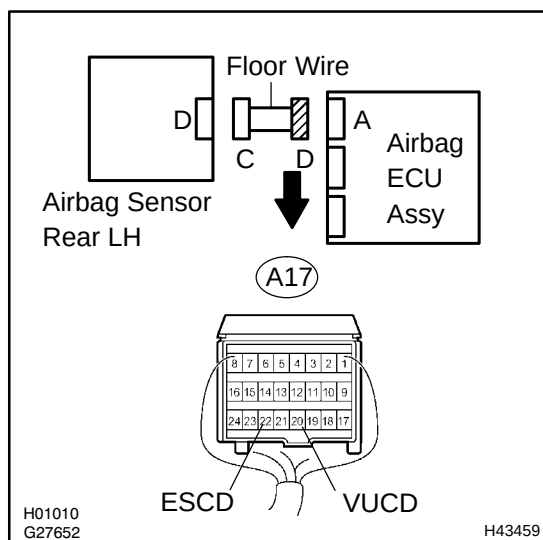
NG**REPAIR OR REPLACE FLOOR WIRE****OK****5 CHECK FLOOR WIRE(TO B+)**

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

Standard:

Tester connection	Condition	Specified condition
A17-20 (VUCD) – Body ground	Power switch is on (IG)	Below 1 V
A17-22 (ESCD) – Body ground	Power switch is on (IG)	Below 1 V

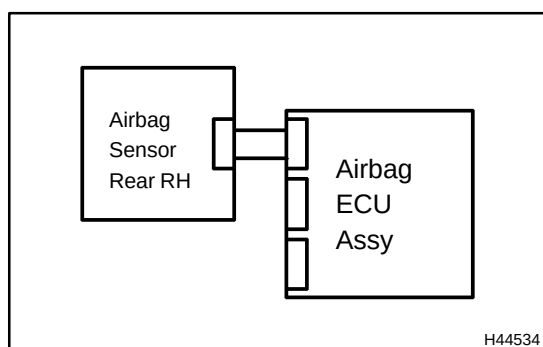
NG**REPAIR OR REPLACE FLOOR WIRE****OK**

6 CHECK FLOOR WIRE(TO GROUND)

- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A17–20 (VUCD) – Body ground	Always	1 MΩ or Higher
A17–22 (ESCD) – Body ground	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE FLOOR WIRE****OK****7 CHECK AIR BAG SENSOR REAR LH**

- Connect the connectors to the airbag ECU assy.
- Interchange the airbag sensor rear LH with RH and connect the connectors to them.
- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in memory (see page 05-1402).
- Turn the power switch off.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (see page 05-1402).

Result:

DTC B1630 is output.	A
DTC B1635 is output.	B
DTC B1630 or B1635 are not output.	C

A**REPLACE AIR BAG ECU ASSY
(SEE PAGE 60-54)****B****REPLACE AIR BAG SENSOR REAR LH
(SEE PAGE 60-60)****C****USE SIMULATION METHOD TO CHECK (SEE PAGE 05-1397)**

DTC	B1635/24	CURTAIN SHIELD AIRBAG SENSOR (P SEAT SIDE) MALFUNCTION
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CIRCUIT DESCRIPTION

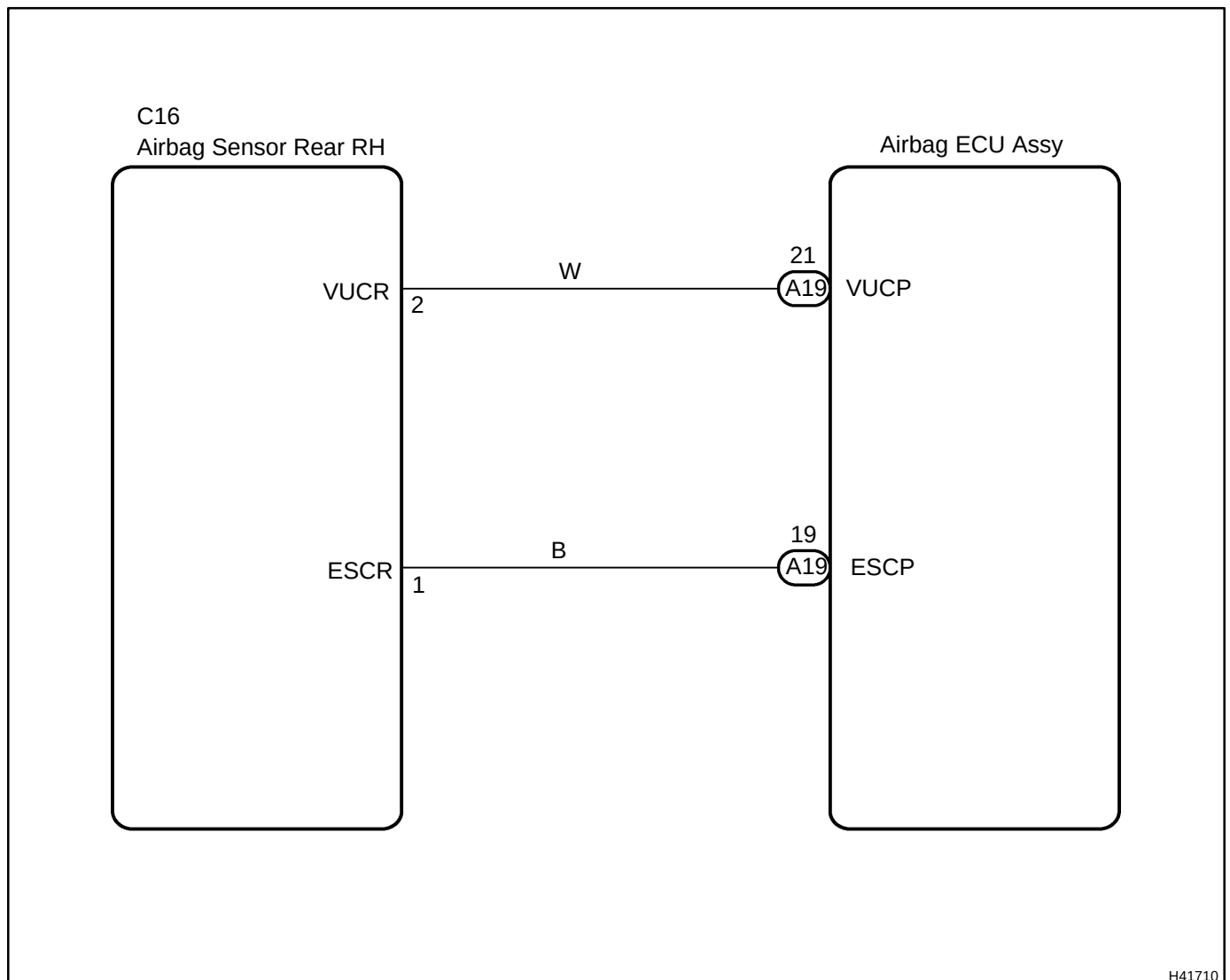
The curtain shield airbag sensor (P seat side) circuit consists of the safing sensor, the diagnostic circuit, the lateral deceleration sensor, etc.

If the airbag ECU Assy receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.

DTC B1635 is recorded when a malfunction is detected in the curtain shield airbag sensor (P seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1635	- When the airbag ECU Assy receives a line short signal, open signal, short to ground signal or B+ short signal in the curtain shield airbag sensor (P seat side) circuit for 2 seconds. - Airbag sensor rear RH malfunction - Airbag ECU Assy malfunction	- Floor wire No.2 - Airbag sensor rear RH - Airbag ECU Assy

WIRING DIAGRAM



H41710

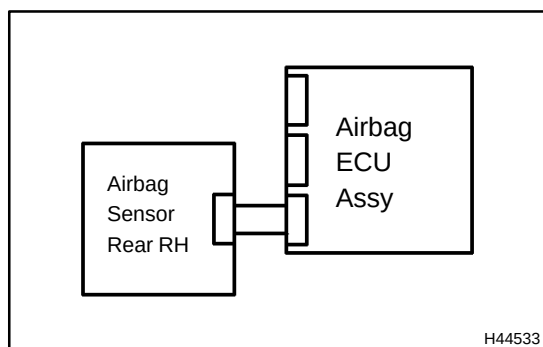
INSPECTION PROCEDURE

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 DTC



- (a) Connect the connectors to the airbag ECU Assy.
- (b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the power switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in memory (see page 05-1402).
- (e) Turn the power switch off.
- (f) Turn the power switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (see page 05-1402).

OK:

DTC B1630 is not output.

HINT:

Codes other than code B1630 may be output at this time, but they are not related to this check.

NG

Go to step 2

OK

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

2 CHECK CONNECTION OF CONNECTORS

- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Check that the connectors are properly connected to the airbag ECU Assy and the airbag sensor rear RH.

OK:

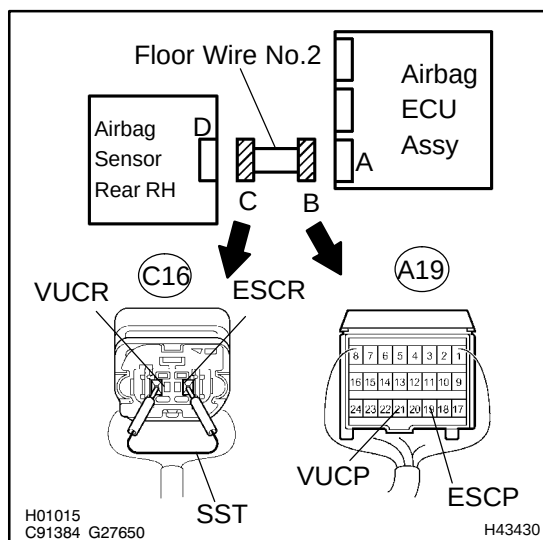
The connectors are connected.

NG

CONNECT CONNECTORS, THEN GO TO STEP 1

OK

3 CHECK FLOOR WIRE NO.2(OPEN)



- Disconnect the connectors from the airbag ECU Assy and the airbag sensor rear RH.
- Using SST, connect C16–2 (VUCR) and C16–1 (ESCR) of connector "C".
SST 09843–18040
- Measure the resistance according to the value(s) in the table below.

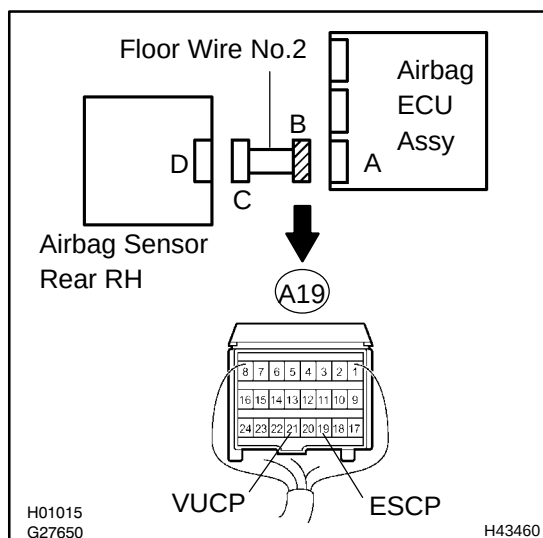
Standard:

Tester connection	Condition	Specified condition
A19–21 (VUCP) – A19–19 (ESCP)	Always	Below 1 Ω

NG

REPAIR OR REPLACE FLOOR WIRE NO.2

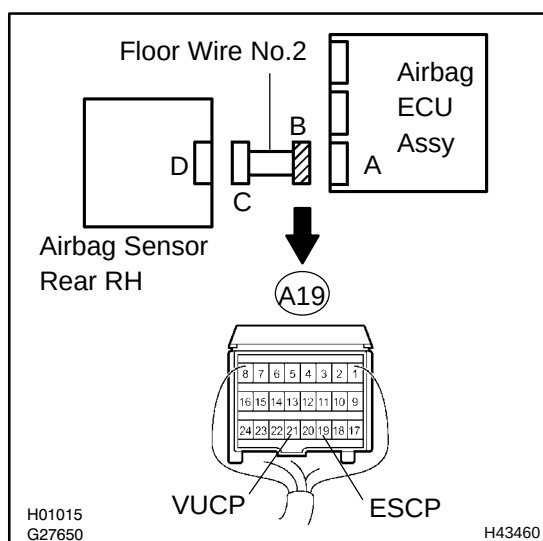
OK

4 CHECK FLOOR WIRE NO.2(SHORT)

- Disconnect the SST from connector "C".
- Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A19-21 (VUCP) – A19-19 (ESCP)	Always	1 MΩ or Higher

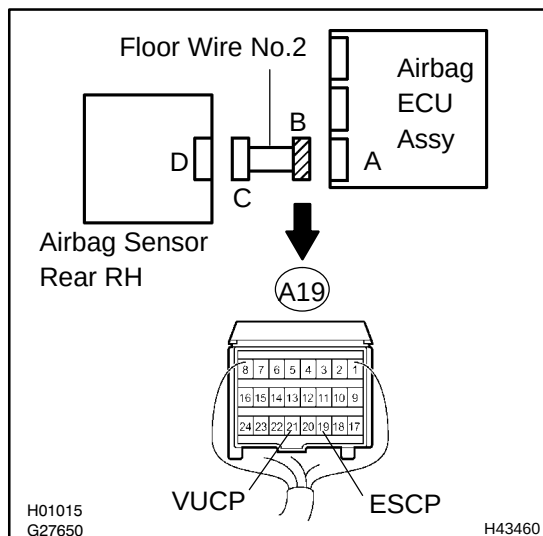
NG**REPAIR OR REPLACE FLOOR WIRE NO.2****OK****5 CHECK FLOOR WIRE NO.2(TO B+)**

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

Standard:

Tester connection	Condition	Specified condition
A19-21 (VUCP) – Body ground	Power switch is on (IG)	Below 1 V
A19-19 (ESCP) – Body ground	Power switch is on (IG)	Below 1 V

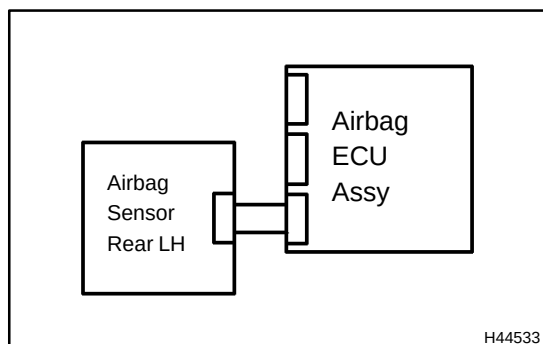
NG**REPAIR OR REPLACE FLOOR WIRE NO.2****OK**

6 CHECK FLOOR WIRE NO.2(TO GROUND)

- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A19–21 (VUCP) – Body ground	Always	1 MΩ or Higher
A19–19 (ESCP) – Body ground	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE FLOOR WIRE NO.2****OK****7 CHECK AIR BAG SENSOR REAR RH**

- Connect the connectors to the airbag ECU assy.
- Interchange the airbag sensor rear LH with RH and connect the connectors to them.
- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in memory (see page 05-1402).
- Turn the power switch off.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (see page 05-1402).

Result:

DTC B1635 is output.	A
DTC B1630 is output.	B
DTC B1630 or B1635 are not output.	C

A**REPLACE AIR BAG ECU ASSY
(SEE PAGE 60-54)****B****REPLACE AIR BAG SENSOR REAR RH
(SEE PAGE 60-60)****C****USE SIMULATION METHOD TO CHECK (SEE PAGE 05-1397)**

DTC	B1653/35	SEAT POSITION SENSOR ASSEMBLY MALFUNCTION
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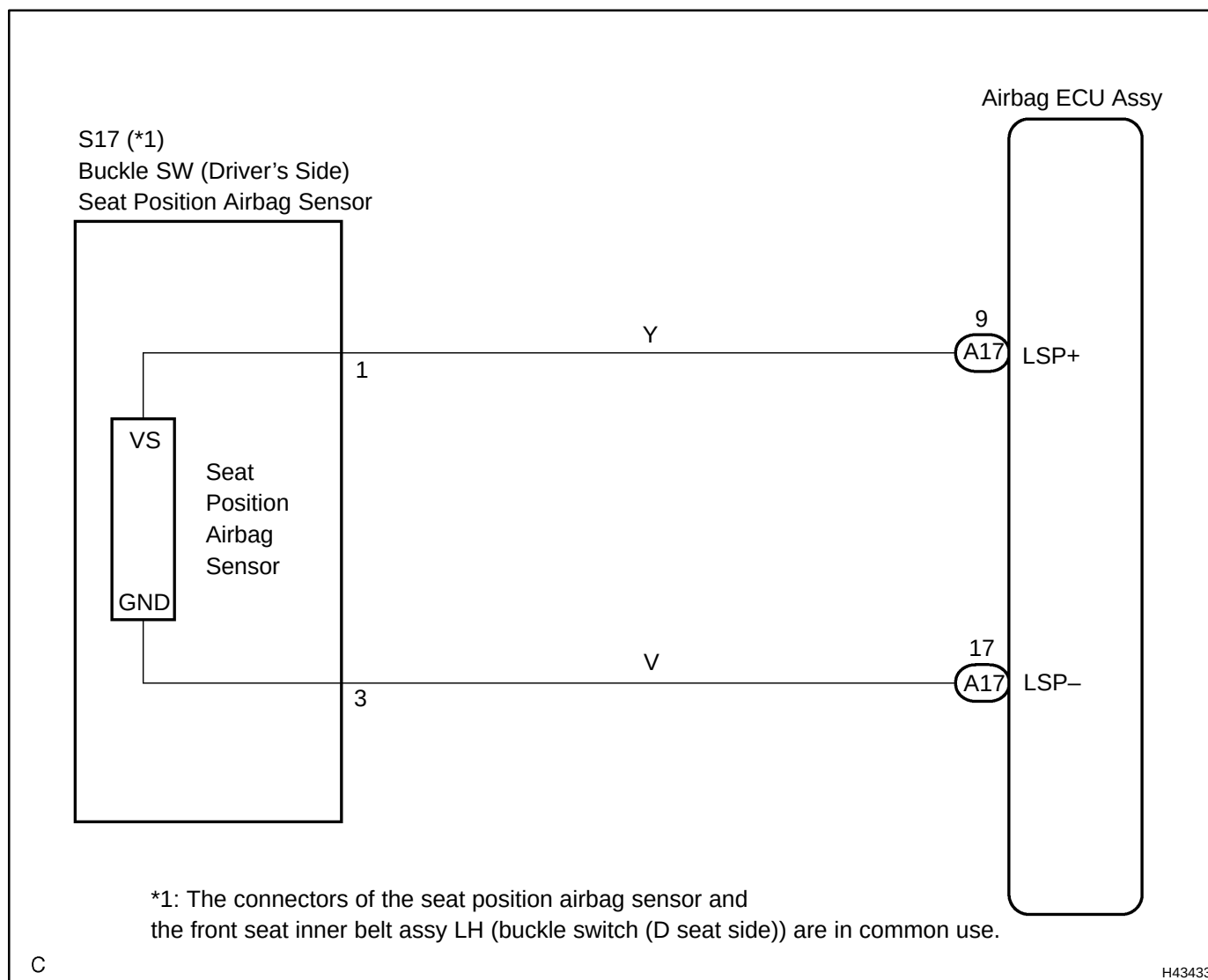
CIRCUIT DESCRIPTION

The seat position sensor assembly circuit consists of the airbag ECU assy and the seat position airbag sensor.

DTC B1653 is recorded when a malfunction is detected in the seat position sensor assembly circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1653	- When the airbag ECU assy receives a line short signal, open signal, short to ground signal or B+ short signal in the seat position sensor assembly circuit for 2 seconds. - Seat position airbag sensor malfunction - Airbag ECU assy malfunction	- Floor wire - Seat position airbag sensor (D seat side) - Airbag ECU assy

WIRING DIAGRAM



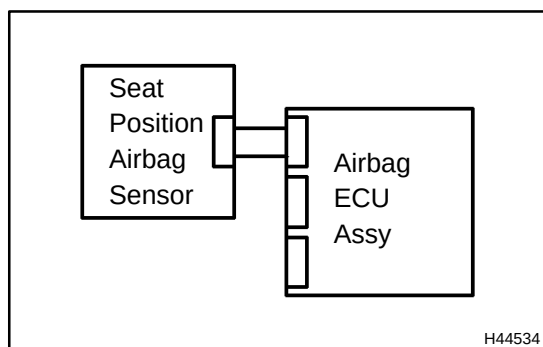
INSPECTION PROCEDURE

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 DTC



- (a) Connect the connectors to the airbag ECU Assy.
- (b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the power switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in memory (see page 05-1402).
- (e) Turn the power switch off.
- (f) Turn the power switch on (IG) and wait for at least 60 seconds.
- (g) Check the DTCs (see page 05-1402).

OK:

DTC B1653 is not output.

HINT:

Codes other than code B1653 may be output at this time, but they are not related to this check.

NG

Go to step 2

OK

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

2 CHECK CONNECTION OF CONNECTORS

- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Check that the connectors are properly connected to the airbag ECU Assy and the seat position airbag sensor.

OK:

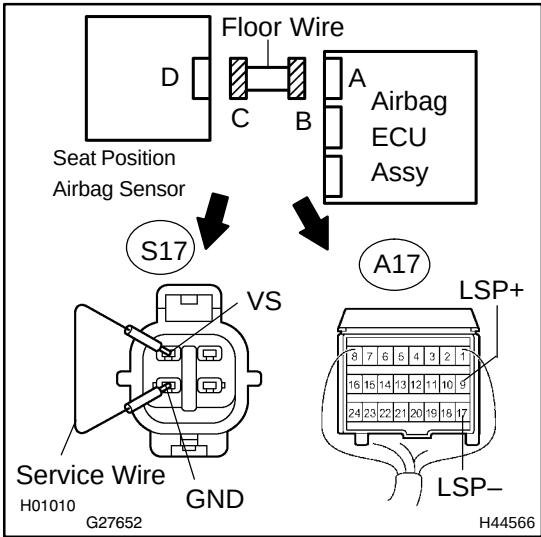
The connectors are connected.

NG

CONNECT CONNECTORS, THEN GO TO STEP 1

OK

3 CHECK FLOOR WIRE(OPEN)



- Disconnect the connectors from the airbag ECU Assy and the seat position airbag sensor.
- Using a service wire, connect S17-1 (VS) and S17-3 (GND) of connector "C".

NOTICE:

Do not forcibly insert a service wire into the terminals of the connector when connecting.

- Measure the resistance according to the value(s) in the table below.

Standard:

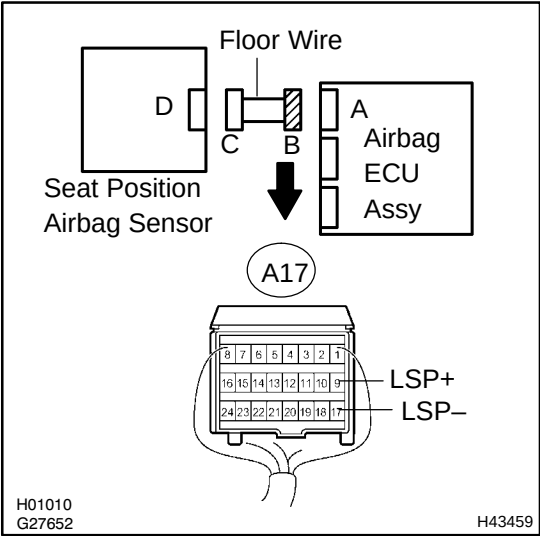
Tester connection	Condition	Specified condition
A17-9 (LSP+) – A17-17 (LSP-)	Always	Below 1 Ω

NG

REPAIR OR REPLACE FLOOR WIRE

OK

4 CHECK FLOOR WIRE(SHORT)



- (a) Disconnect the service wire from connector "C".
- (b) Measure the resistance according to the value(s) in the table below.

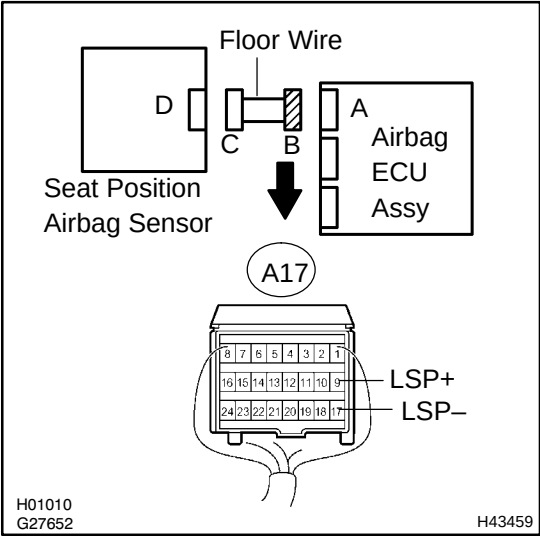
Standard:

Tester connection	Condition	Specified condition
A17-9 (LSP+) – A17-17 (LSP-)	Always	1 MΩ or Higher

NG REPAIR OR REPLACE FLOOR WIRE

OK

5 CHECK FLOOR WIRE(TO B+)



- (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.

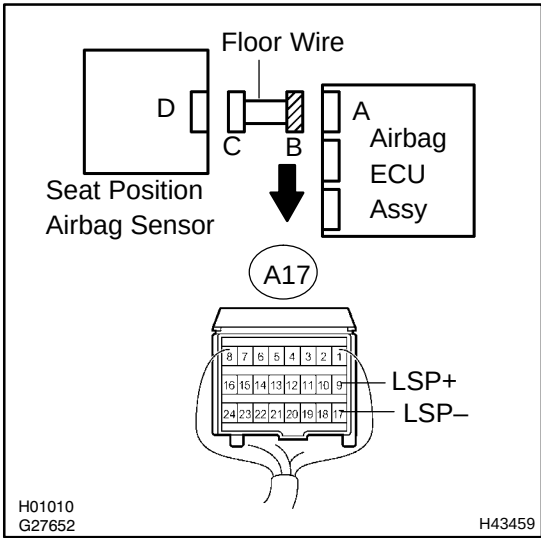
Standard:

Tester connection	Condition	Specified condition
A17-9 (LSP+) – Body ground	Power switch is on (IG)	Below 1 V
A17-17 (LSP-) – Body ground	Power switch is on (IG)	Below 1 V

NG REPAIR OR REPLACE FLOOR WIRE

OK

6 CHECK FLOOR WIRE(TO GROUND)



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

Standard:

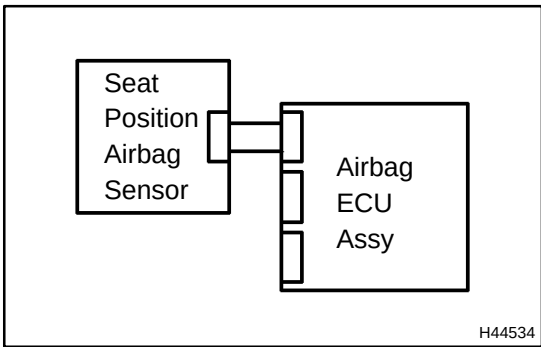
Tester connection	Condition	Specified condition
A17–9 (LSP+) – Body ground	Always	1 MΩ or Higher
A17–17 (LSP–) – Body ground	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE FLOOR WIRE

OK

7 CHECK SEAT POSITION AIR BAG SENSOR



- (a) Connect the connectors to the airbag ECU assy.
- (b) Connect the connector to the seat position airbag sensor.
- (c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (d) Turn the power switch on (IG), and wait for at least 60 seconds.
- (e) Clear the DTCs stored in memory (see page 05-1402).
- (f) Turn the power switch off.
- (g) Turn the power switch on (IG), and wait for at least 60 seconds.
- (h) Check the DTCs (see page 05-1402).

OK:

DTC B1653 is not output.

HINT:

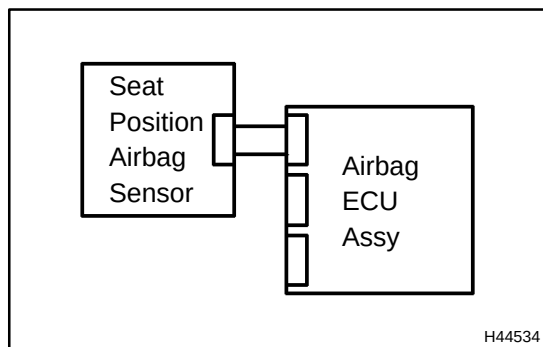
Codes other than code B1653 may be output at this time, but they are not related to this check.

NG

Go to step 8

OK

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

8 REPLACE SEAT POSITION AIRBAG SENSOR

- (a) Turn the power switch off.
- (b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Replace the seat position airbag sensor (see page [60–62](#)).

HINT:

Perform the inspection using parts from a normal vehicle when possible.

- (d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (e) Turn the power switch on (IG), and wait for at least 60 seconds.
- (f) Clear the DTCs stored in memory (see page [05–1402](#)).
- (g) Turn the power switch off.
- (h) Turn the power switch on (IG), and wait for at least 60 seconds.
- (i) Check the DTCs (see page [05–1402](#)).

OK:

DTC B1653 is not output.

HINT:

Codes other than code B1653 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****END**

DTC	B1655/37	SEAT BELT BUCKLE SWITCH (D SEAT SIDE) MALFUNCTION
------------	-----------------	--

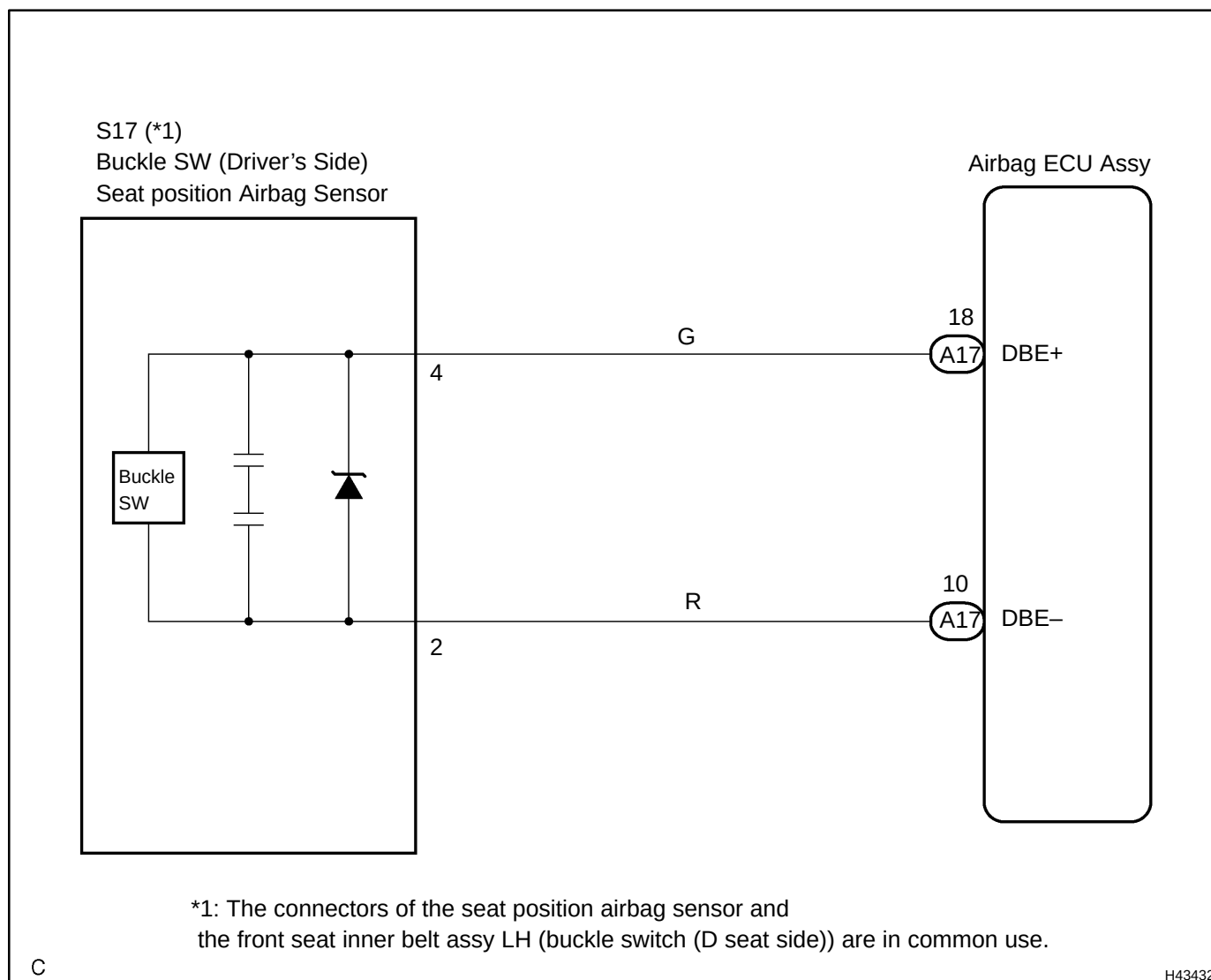
CIRCUIT DESCRIPTION

The seat belt buckle switch (D seat side) circuit consists of the airbag ECU Assy and the front seat inner belt Assy LH (buckle switch (D seat side)).

DTC B1655 is recorded when a malfunction is detected in the seat belt buckle switch (D seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1655	- When the airbag ECU Assy receives a line short signal, an open signal, short to ground signal or B+ short signal in the seat belt buckle switch (D seat side) circuit for 2 seconds. - Front seat inner belt Assy LH malfunction - Airbag ECU Assy malfunction	- Floor wire - Front seat inner belt Assy LH (Buckle switch (D seat side)) - Airbag ECU Assy

WIRING DIAGRAM



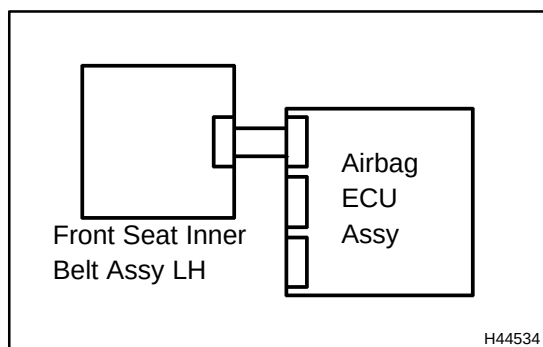
INSPECTION PROCEDURE

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 DTC



- (a) Connect the connectors to the airbag ECU Assy.
- (b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the power switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in memory (see page 05-1402).
- (e) Turn the power switch off.
- (f) Turn the power switch on (IG) and wait for at least 60 seconds.
- (g) Check the DTCs (see page 05-1402).

OK:

DTC B1655 is not output.

HINT:

Codes other than code B1655 may be output at this time, but they are not related to this check.

NG

Go to step 2

OK

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

2 CHECK CONNECTION OF CONNECTORS

- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Check that the connectors are properly connected to the airbag ECU Assy and the front seat inner belt Assy LH.

OK:

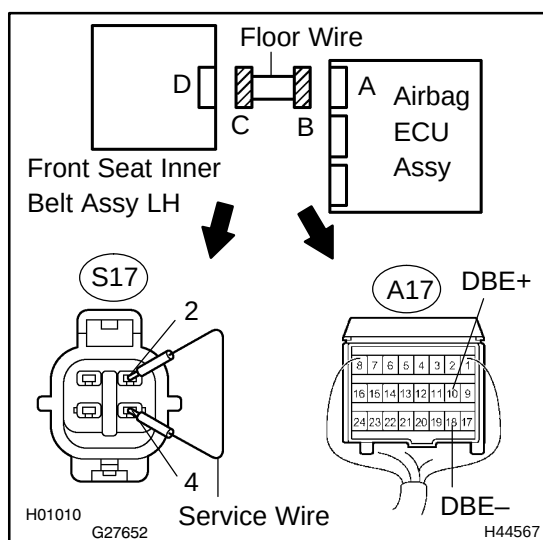
The connectors are connected.

NG

CONNECT CONNECTORS, THEN GO TO STEP 1

OK

3 CHECK FLOOR WIRE(OPEN)



- Disconnect the connectors from the airbag ECU Assy and the front seat inner belt Assy LH.

- Using a service wire, connect S17–2 and S17–4 of connector "C".

NOTICE:

Do not forcibly insert a service wire into the terminals of the connector when connecting.

- Measure the resistance according to the value(s) in the table below.

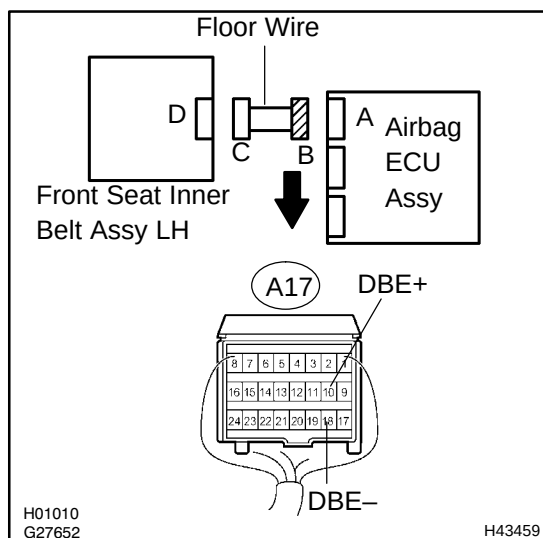
Standard:

Tester connection	Condition	Specified condition
A17–10 (DBE+) – A17–18 (DBE–)	Always	Below 1 Ω

NG

REPAIR OR REPLACE FLOOR WIRE

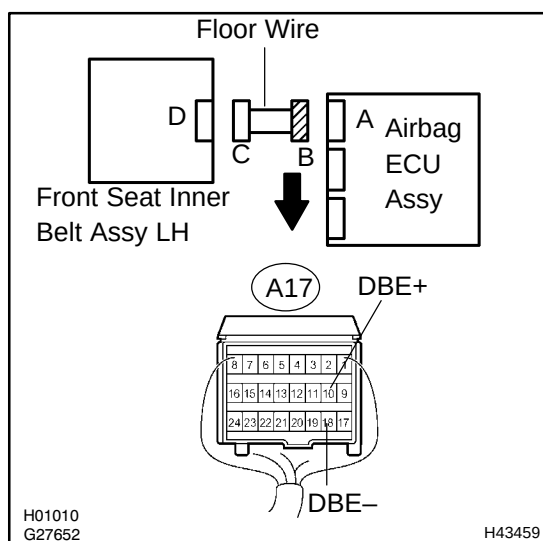
OK

4 CHECK FLOOR WIRE(SHORT)

- Disconnect the service wire from connector "C".
- Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A17-1 (DBE+) – A17-18 (DBE-)	Always	1 MΩ or Higher

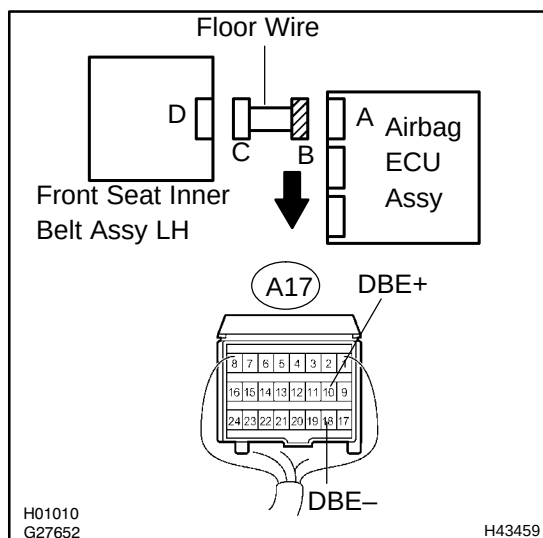
NG**REPAIR OR REPLACE FLOOR WIRE****OK****5 CHECK FLOOR WIRE(TO B+)**

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

Standard:

Tester connection	Condition	Specified condition
A17-10 (DBE+) – Body ground	Power switch is on (IG)	Below 1 V
A17-18 (DBE-) – Body ground	Power switch is on (IG)	Below 1 V

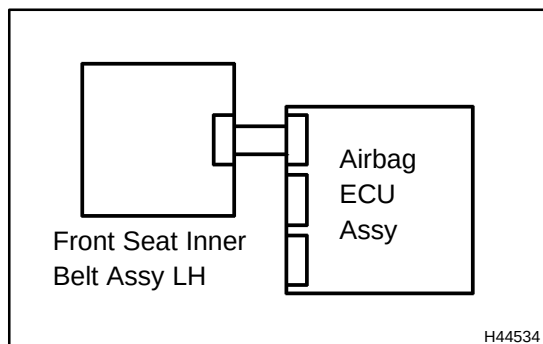
NG**REPAIR OR REPLACE FLOOR WIRE****OK**

6 CHECK FLOOR WIRE(TO GROUND)

- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A17–10 (DBE+) – Body ground	Always	1 MΩ or Higher
A17–18 (DBE+) – Body ground	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE FLOOR WIRE****OK****7 CHECK FRONT SEAT INNER BELT ASSY LH**

- Connect the connectors to the airbag ECU assy.
- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in memory (see page 05-1402).
- Turn the power switch off.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (see page 05-1402).

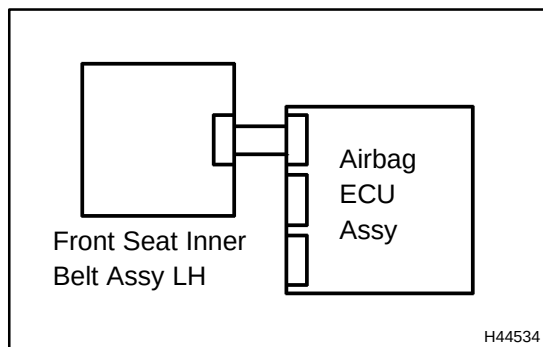
OK:**DTC B1655 is not output.****HINT:**

Codes other than code B1655 may be output at this time, but they are not related to this check.

NG**Go to step 8****OK****USE SIMULATION METHOD TO CHECK (SEE PAGE 05-1397)**

8

REPLACE FRONT SEAT INNER BELT ASSY LH



- (a) Turn the power switch off.
- (b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Replace the front seat inner belt assy LH (see page 72-2).

HINT:

Perform the inspection using parts from a normal vehicle when possible.

- (d) Connect the connectors to the airbag ECU 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 B1655 is not output.

HINT:

Codes other than code B1655 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

END

DTC	B1800/51	SHORT IN D SQUIB CIRCUIT
------------	-----------------	---------------------------------

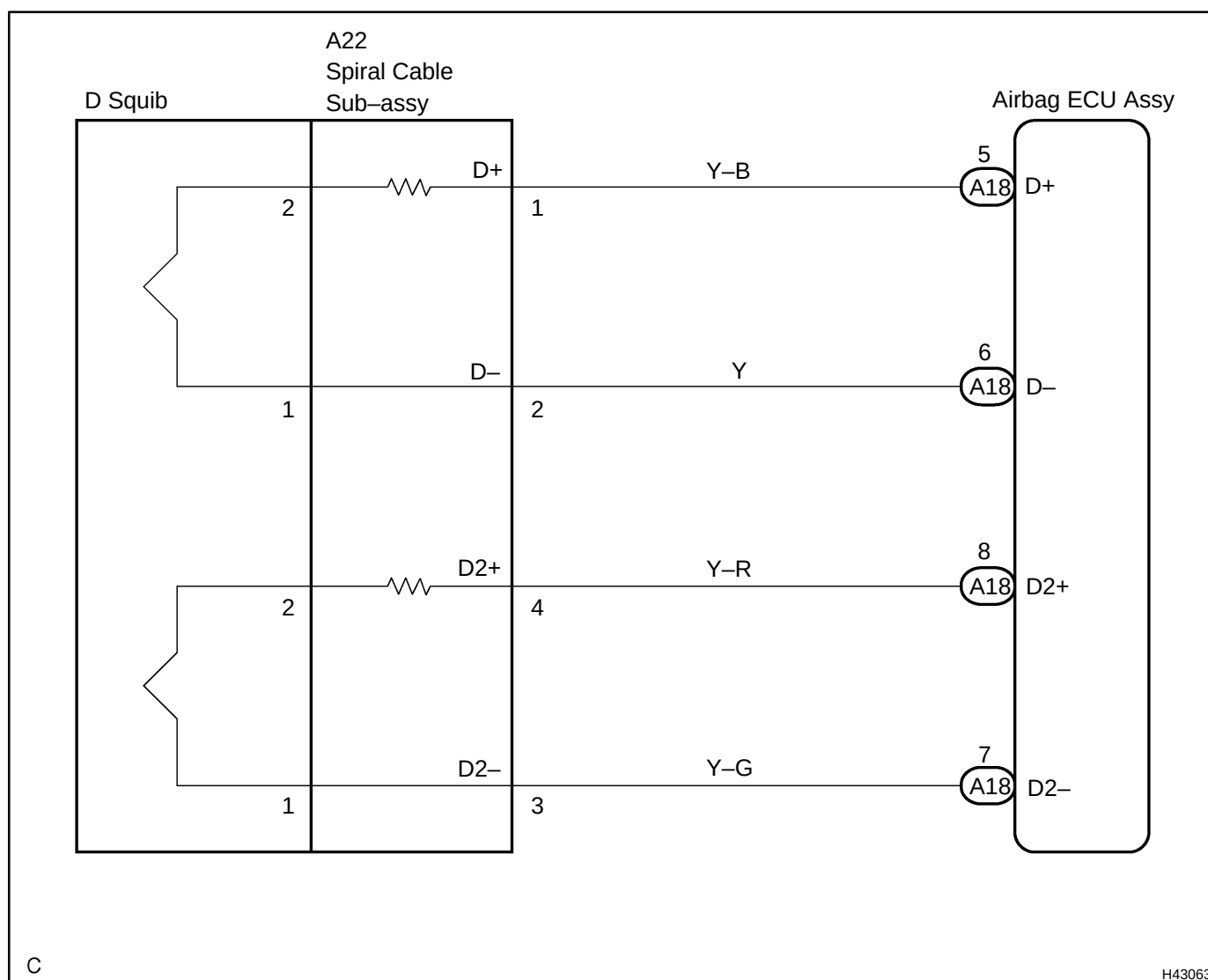
CIRCUIT DESCRIPTION

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 B1800 is recorded when a short circuit is detected in the D squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1800	- When the airbag ECU Assy receives a line short signal 5 times in the D squib circuit during primary check. - D squib malfunction - Spiral cable sub-assy malfunction - Airbag ECU Assy malfunction	- Instrument panel wire - Spiral cable sub-assy - Horn button Assy (D squib) - Airbag ECU Assy

WIRING DIAGRAM



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 CONNECTOR

- (a) Check that the spiral cable sub-assy connectors (on the horn button Assy side) are not damaged.

OK:

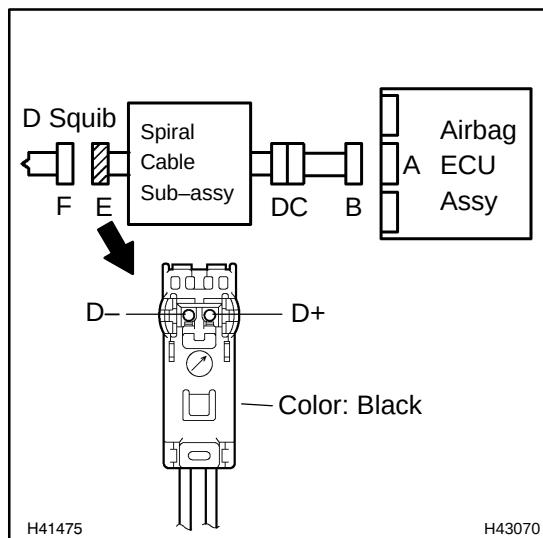
The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG

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

OK

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



- (a) Release the activation prevention mechanism built into connector "B" (see page 05-1397).
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

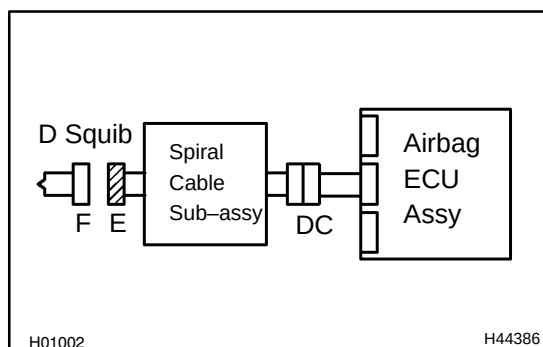
Tester connection	Condition	Specified condition
D+ – D–	Always	1 MΩ or Higher

NG

Go to step 5

OK

3 CHECK AIR BAG ECU ASSY



- Connect the connectors to the airbag ECU Assy.
- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in memory (see page 05-1402).
- Turn the power switch off.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (see page 05-1402).

OK:

DTC B1800 is not output.

HINT:

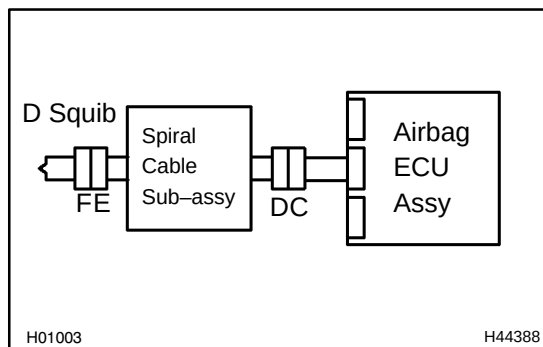
Codes other than code B1800 may be output at this time, but they are not related to this check.

NG

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

OK

4 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) Connect the connectors to the horn button assy.
- (d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (e) Turn the power switch on (IG), and wait for at least 60 seconds.
- (f) Clear the DTCs stored in memory (see page 05-1402).
- (g) Turn the power switch off.
- (h) Turn the power switch on (IG), and wait for at least 60 seconds.
- (i) Check the DTCs (see page 05-1402).

OK:

DTC B1800 is not output.

HINT:

Codes other than code B1800 may be output at this time, but they are not related to this check.

NG

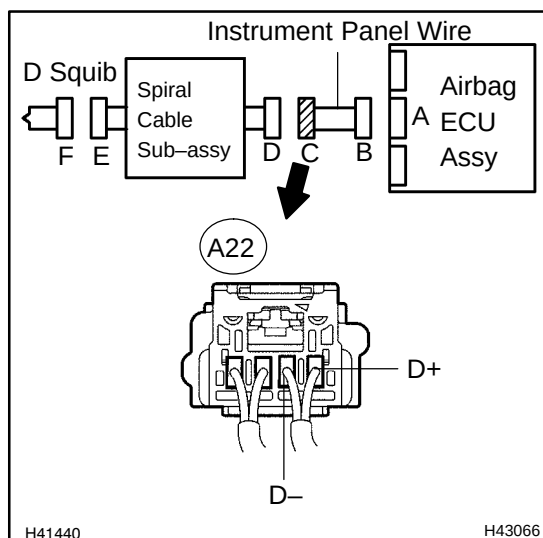
**REPLACE HORN BUTTON ASSY
(SEE PAGE 60-20)**

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).

5 CHECK INSTRUMENT PANEL WIRE

- (a) Disconnect the instrument panel wire connector from the spiral cable sub-assy.

HINT:

The activation prevention mechanism of connector "B" has already been released.

- (b) Measure the resistance according to the value(s) in the table below.

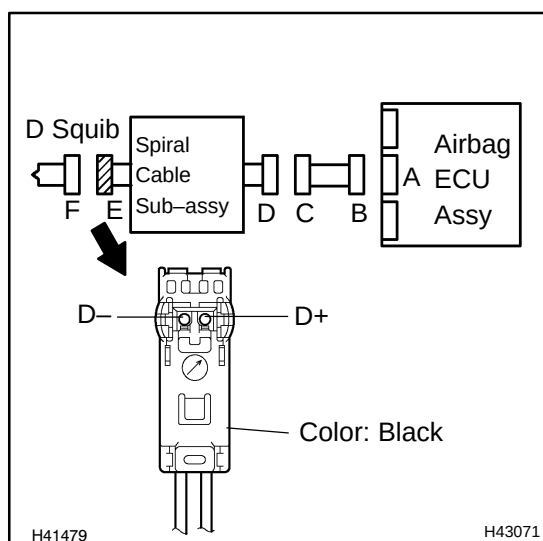
Standard:

Tester connection	Condition	Specified condition
A22-1 (D+) – A22-2 (D-)	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

6 CHECK SPIRAL CABLE SUB-ASSY

- (a) Release the activation prevention mechanism built into connector "D" (see page 05-1397).

- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
D+ – D-	Always	1 MΩ or Higher

NG

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

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).

DTC	B1801/51	OPEN IN D SQUIB CIRCUIT
------------	-----------------	--------------------------------

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 B1801 is recorded when an open circuit is detected in the D squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1801	• When the airbag ECU Assy receives an open signal in the D squib circuit for 2 seconds. • D squib malfunction • Spiral cable sub-assy malfunction • Airbag ECU Assy malfunction	• Instrument panel wire • Spiral cable sub-assy • Horn button Assy (D squib) • Airbag ECU Assy

WIRING DIAGRAM

See page [05-1461](#).

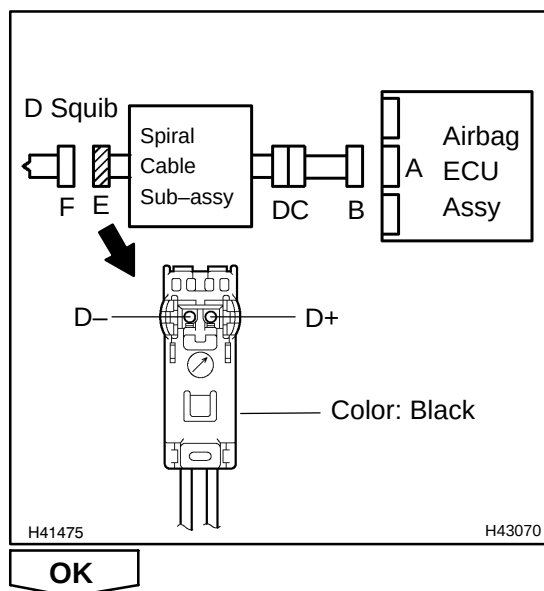
INSPECTION PROCEDURE

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) Measure the resistance according to the value(s) in the table below.

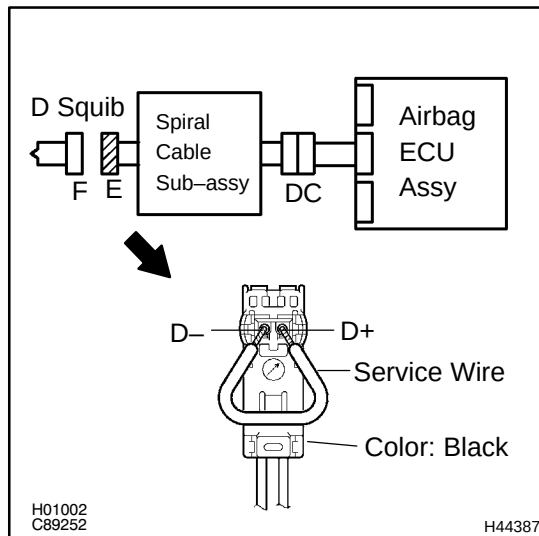
Standard:

Tester connection	Condition	Specified condition
D+ – D–	Always	Below 1 Ω

NG

Go to step 4

2 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU Assy.
- (b) 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.**
- (c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
 - (d) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (e) Clear the DTCs stored in memory (see page 05-1402).
 - (f) Turn the power switch off.
 - (g) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (h) Check the DTCs (see page 05-1402).

OK:

DTC B1801 is not output.

HINT:

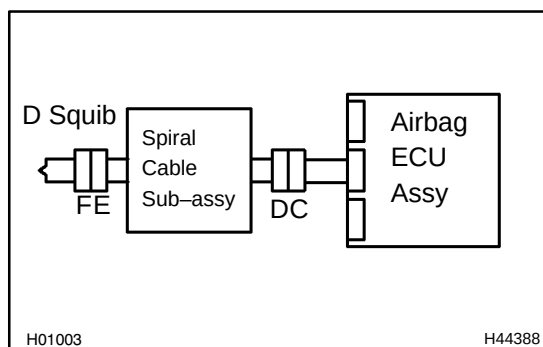
Codes other than code B1801 may be output at this time, but they are not related to this check.

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 B1801 is not output.

HINT:

Codes other than code B1801 may be output at this time, but they are not related to this check.

NG

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

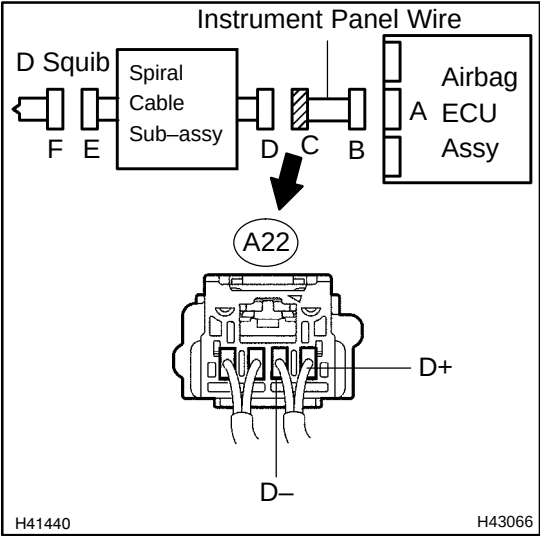
OK

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) Disconnect the instrument panel wire connector from the spiral cable sub-assy.
- (b) Measure the resistance according to the value(s) in the table below.

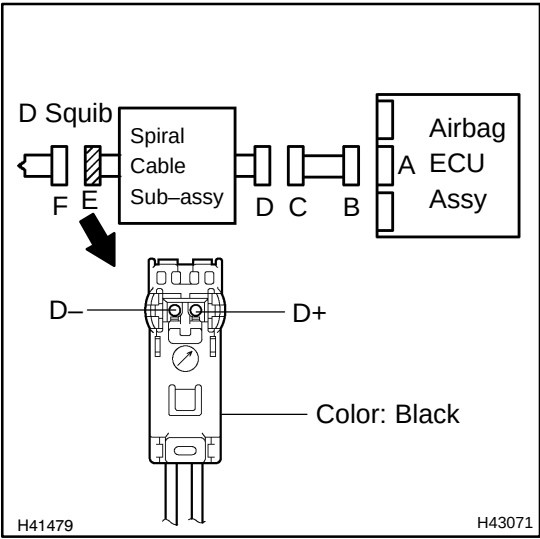
Standard:

Tester connection	Condition	Specified condition
A22-1 (D+) – A22-2 (D-)	Always	Below 1 Ω

NG REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

5 CHECK SPIRAL CABLE SUB-ASSY



- (a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
D+ – D-	Always	Below 1 Ω

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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1802/51	SHORT IN D SQUIB CIRCUIT (TO GROUND)
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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 B1802 is recorded when a short to ground is detected in the D squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1802	• When the airbag ECU Assy receives a short to ground signal in the D squib circuit for 0.5 seconds. • D squib malfunction • Spiral cable sub-assy malfunction • Airbag ECU Assy malfunction	• Instrument panel wire • Spiral cable sub-assy • Horn button Assy (D squib) • Airbag ECU Assy

WIRING DIAGRAM

See page [05-1461](#).

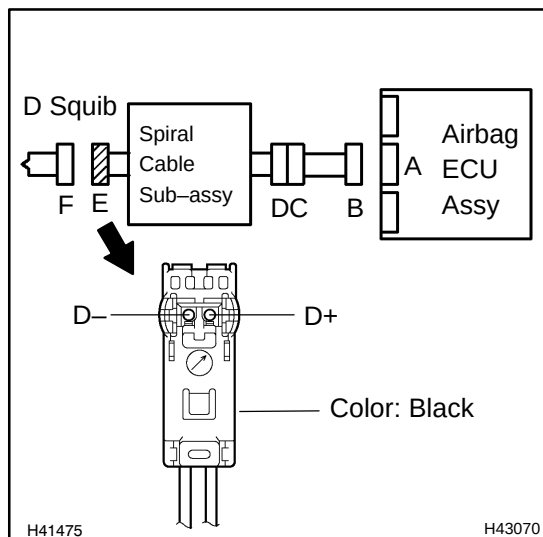
INSPECTION PROCEDURE

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) Measure the resistance according to the value(s) in the table below.

Standard:

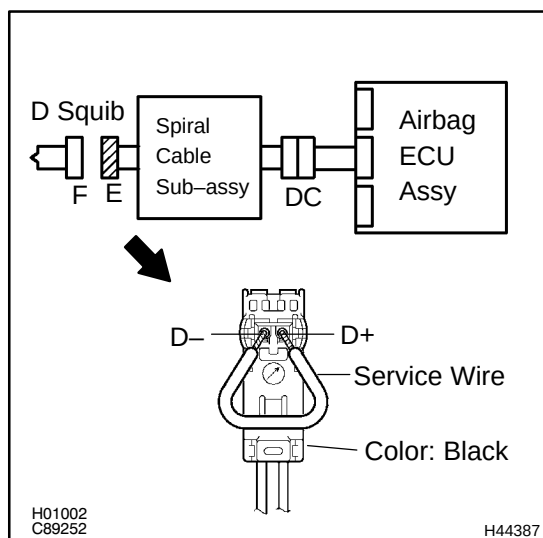
Tester connection	Condition	Specified condition
D+ – Body ground	Always	1 MΩ or Higher
D– – Body ground	Always	1 MΩ or Higher

NG

Go to step 4

OK

2 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU Assy.
- (b) 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.**
- (c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
 - (d) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (e) Clear the DTCs stored in memory (see page 05-1402).
 - (f) Turn the power switch off.
 - (g) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (h) Check the DTCs (see page 05-1402).

OK:

DTC B1802 is not output.

HINT:

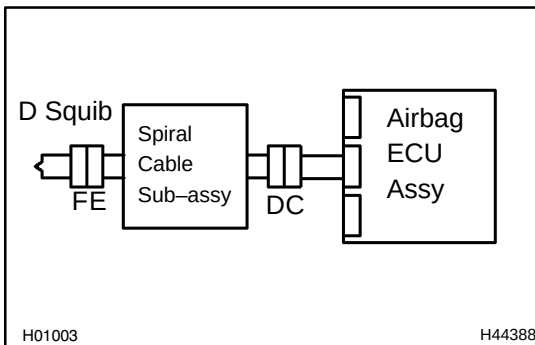
Codes other than code B1802 may be output at this time, but they are not related to this check.

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 B1802 is not output.

HINT:

Codes other than code B1802 may be output at this time, but they are not related to this check.

NG

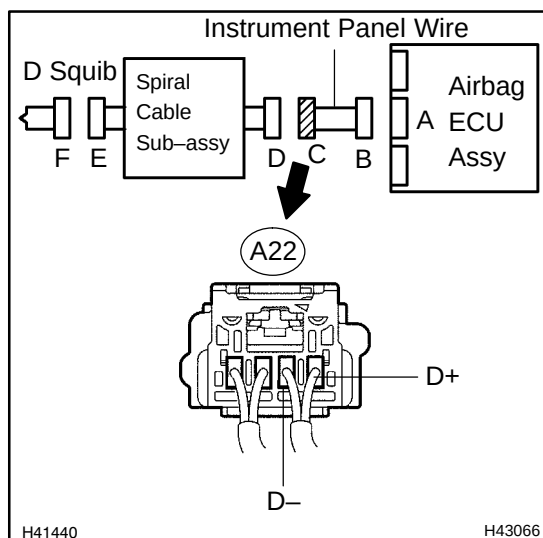
**REPLACE HORN BUTTON ASSY
(SEE PAGE 60-20)**

OK

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

HINT:

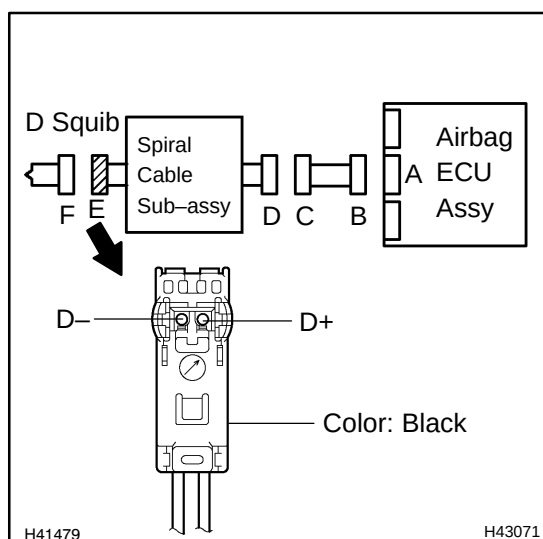
- Perform the simulation method by selecting the check mode with the hand-held tester (see page 05-1405).
- After selecting the check mode, perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page 05-1405).

4 CHECK INSTRUMENT PANEL WIRE

- (a) Disconnect the instrument panel wire connector from the spiral cable sub-assy.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A22-1 (D+) – Body ground	Always	1 MΩ or Higher
A22-2 (D-) – Body ground	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE****OK****5 CHECK SPIRAL CABLE SUB-ASSY**

- (a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
D+ – Body ground	Always	1 MΩ or Higher
D- – Body ground	Always	1 MΩ or Higher

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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1803/51	SHORT IN D SQUIB CIRCUIT (TO 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	• When the airbag ECU Assy receives a B+ short signal in the D squib circuit for 0.5 seconds. • D squib malfunction • Spiral cable sub-assy malfunction • Airbag ECU Assy malfunction	• Instrument panel wire • Spiral cable sub-assy • Horn button Assy (D squib) • Airbag ECU Assy

WIRING DIAGRAM

See page [05-1461](#).

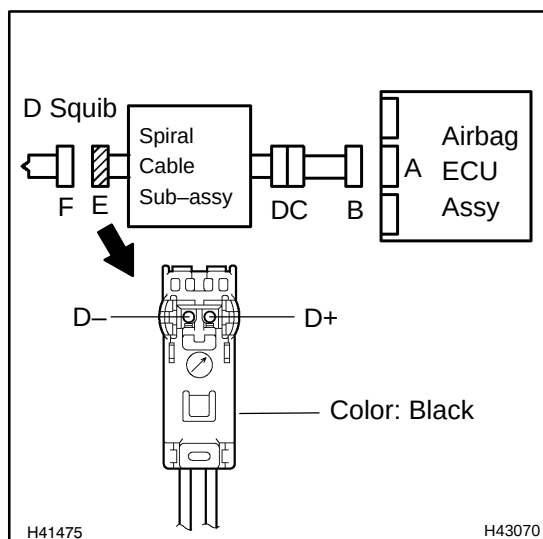
INSPECTION PROCEDURE

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:

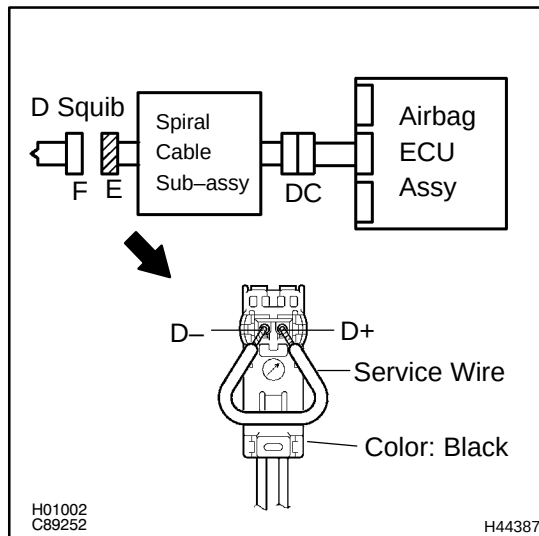
Tester connection	Condition	Specified condition
D+ – Body ground	Power switch is on (IG)	Below 1 V
D– – Body ground	Power switch is on (IG)	Below 1 V

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:

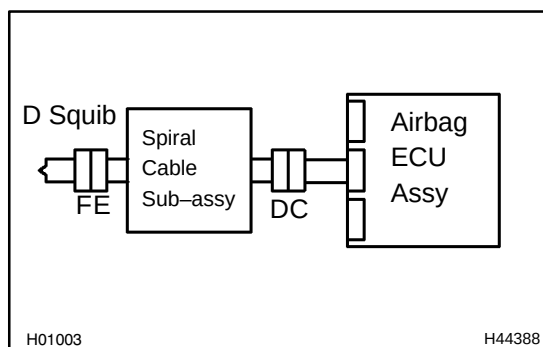
Codes other than code B1803 may be output at this time, but they are not related to this check.

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

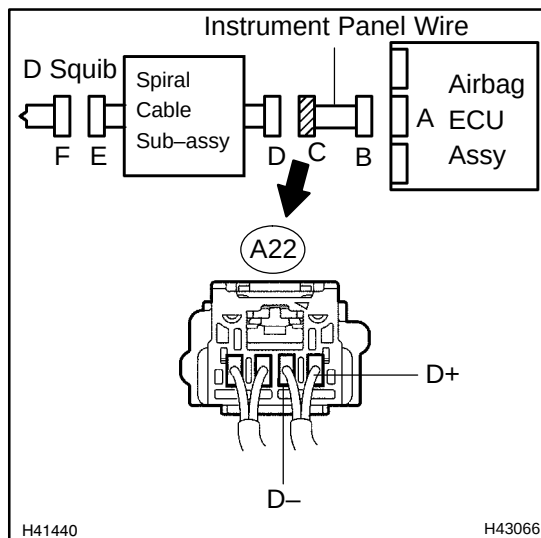
**REPLACE HORN BUTTON ASSY
(SEE PAGE 60-20)**

OK

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

HINT:

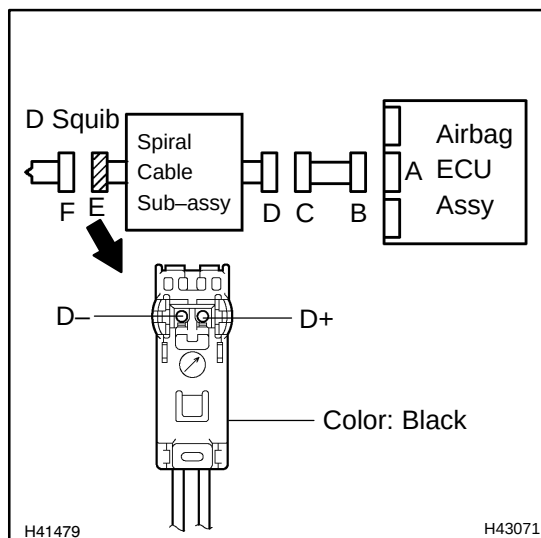
- Perform the simulation method by selecting the check mode with the hand-held tester (see page 05-1405).
- After selecting the check mode, perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page 05-1405).

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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1805/52	SHORT IN P SQUIB CIRCUIT
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CIRCUIT DESCRIPTION

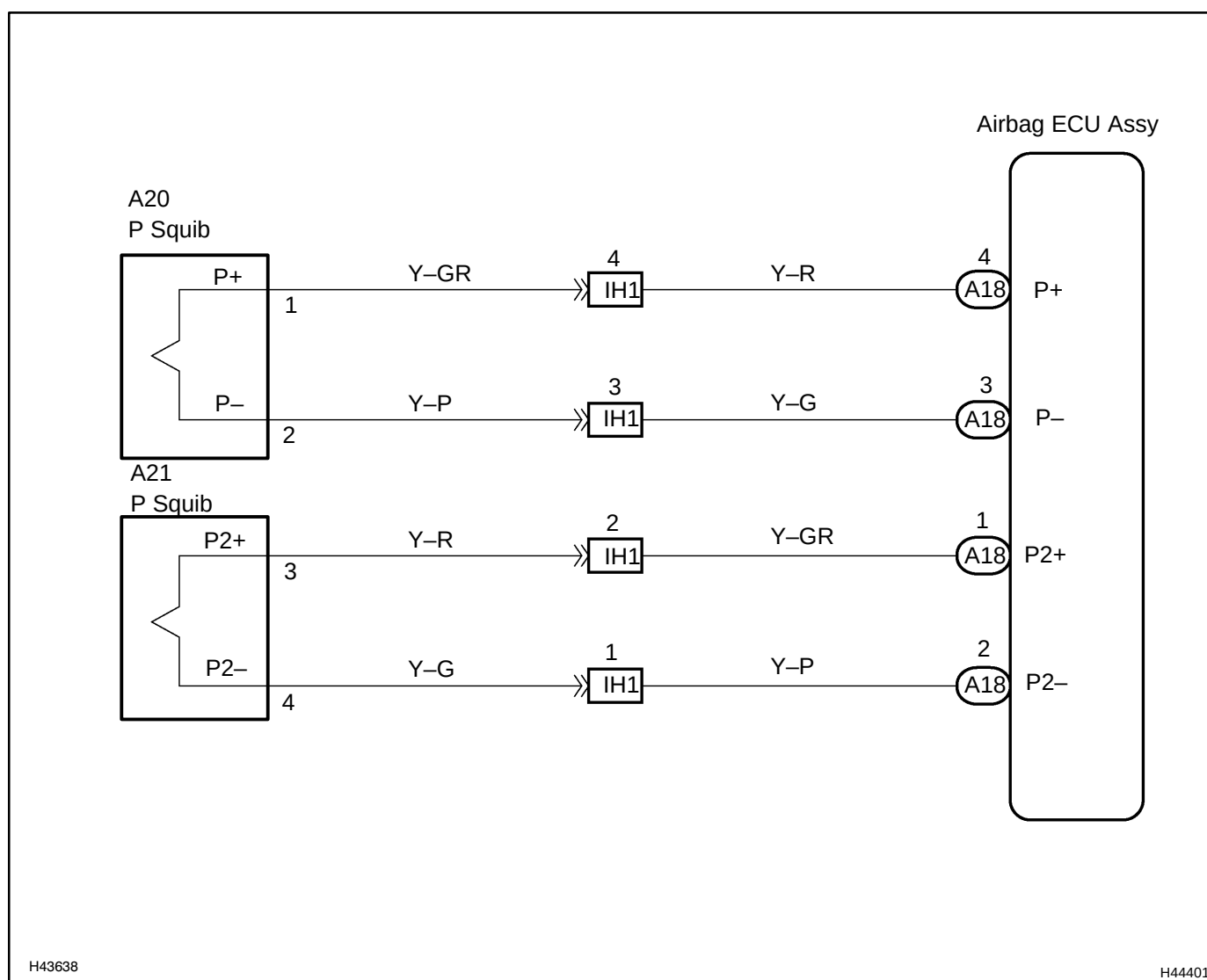
The P squib circuit consists of the airbag ECU Assy and the front passenger airbag Assy.

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

DTC B1805 is recorded when a short circuit is detected in the P squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1805	- When the airbag Airbag ECU Assy receives a line short signal 5 times in the P squib circuit during primary check. - P squib malfunction - Airbag ECU Assy malfunction	- Instrument panel wire - Instrument panel wire No.2 - Front passenger airbag Assy (P squib) - Airbag ECU Assy

WIRING DIAGRAM



INSPECTION PROCEDURE

CAUTION:

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

- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the airbag ECU Assy.
- Disconnect the connectors from the horn button Assy.
- Disconnect the connectors from the front passenger airbag Assy.
- Disconnect the connector from the front seat airbag Assy LH.
- Disconnect the connector from the front seat airbag Assy RH.
- Disconnect the connector from the curtain shield airbag Assy LH.
- Disconnect the connector from the curtain shield airbag Assy RH.
- Disconnect the connector from the front seat outer belt Assy LH.
- Disconnect the connector from the front seat outer belt Assy RH.

1 CHECK CONNECTOR

- Check that the instrument panel wire No.2 connectors (on the front passenger airbag Assy side) are not damaged.

OK:

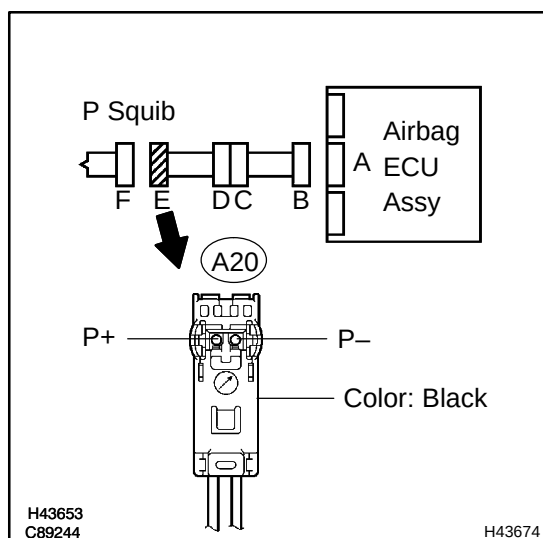
The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.2

OK

2 CHECK P SQUIB CIRCUIT(AIRBAG ECU ASSY – FRONT PASSENGER AIRBAG ASSY)



- Release the activation prevention mechanism built into connector "B" (see page 05-1397).
- Measure the resistance according to the value(s) in the table below.

Standard:

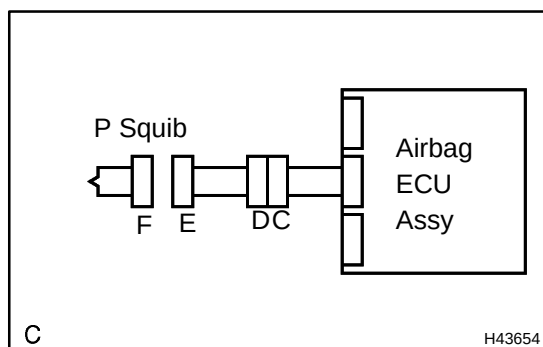
Tester connection	Condition	Specified condition
A20-1 (P+) – A20-2 (P-)	Always	1 MΩ or Higher

NG

Go to step 5

OK

3 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU Assy.
- (b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the power switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in memory (see page 05-1402).
- (e) Turn the power switch off.
- (f) Turn the power switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (see page 05-1402).

OK:

DTC B1805 is not output.

HINT:

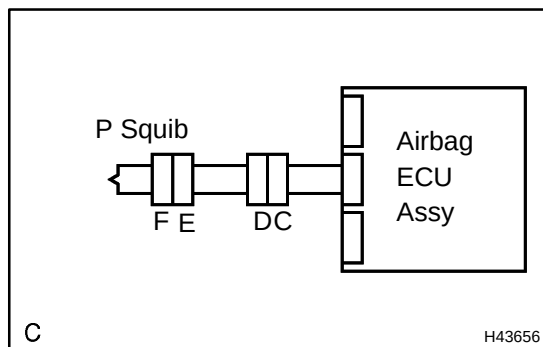
Codes other than code B1805 may be output at this time, but they are not related to this check.

NG

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

OK

4 CHECK FRONT PASSENGER AIRBAG ASSY(P SQUIB)



- (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 front passenger airbag Assy.
- (d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (e) Turn the power switch on (IG), and wait for at least 60 seconds.
- (f) Clear the DTCs stored in memory (see page 05-1402).
- (g) Turn the power switch off.
- (h) Turn the power switch on (IG), and wait for at least 60 seconds.
- (i) Check the DTCs (see page 05-1402).

OK:

DTC B1805 is not output.

HINT:

Codes other than code B1805 may be output at this time, but they are not related to this check.

NG

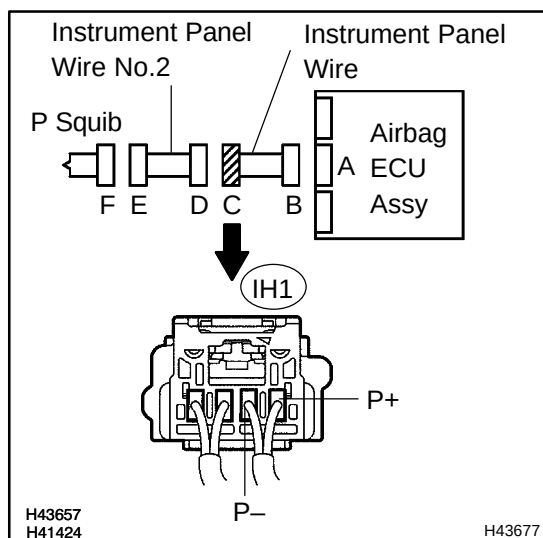
**REPLACE FRONT PASSENGER AIRBAG ASSY
(SEE PAGE 60-32)**

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).

5 CHECK INSTRUMENT PANEL WIRE

- (a) Disconnect the instrument panel wire connector from the instrument panel wire No.2.

HINT:

The activation prevention mechanism of connector "B" has already been released.

- (b) Measure the resistance according to the value(s) in the table below.

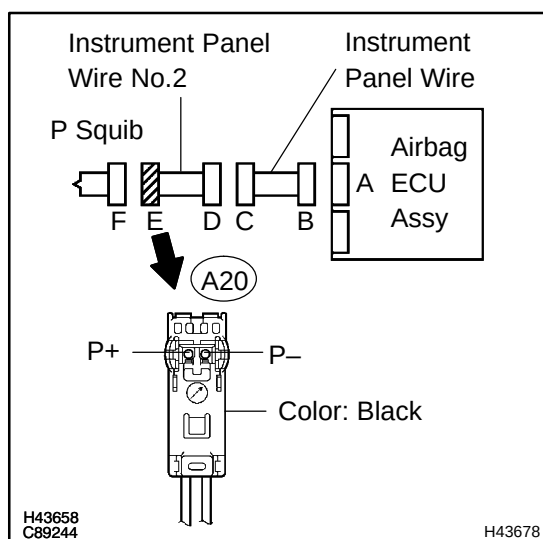
Standard:

Tester connection	Condition	Specified condition
IH1-1 (P+) – IH1-2 (P-)	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

6 CHECK INSTRUMENT PANEL WIRE NO.2

- (a) Release the activation prevention mechanism built into connector "D" (see page 05-1397).

- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A20-1 (P+) – A20-2 (P-)	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1806/52	OPEN IN P SQUIB CIRCUIT
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CIRCUIT DESCRIPTION

The P squib circuit consists of the airbag ECU Assy and the front passenger airbag Assy.

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

DTC B1806 is recorded when an open circuit is detected in the P squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1806	• When the airbag ECU Assy receives an open signal in the P squib circuit for 2 seconds. • P squib malfunction • Airbag ECU Assy malfunction	• Instrument panel wire • Instrument panel wire No.2 • Front passenger airbag Assy (P squib) • Airbag ECU Assy

WIRING DIAGRAM

See page [05-1481](#).

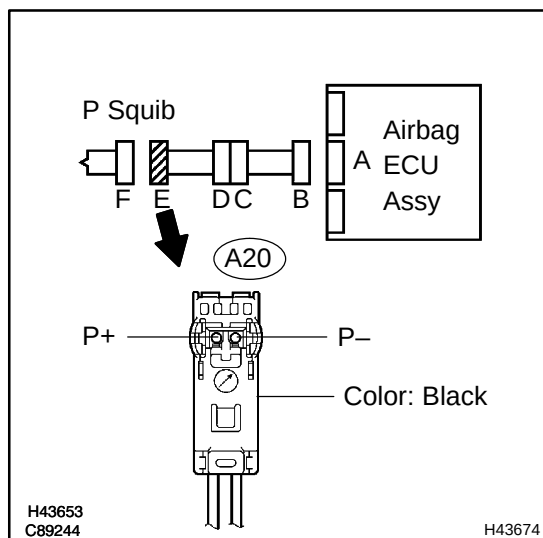
INSPECTION PROCEDURE

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 P SQUIB CIRCUIT(AIRBAG ECU ASSY – FRONT PASSENGER AIRBAG ASSY)



- (a) Measure the resistance according to the value(s) in the table below.

Standard:

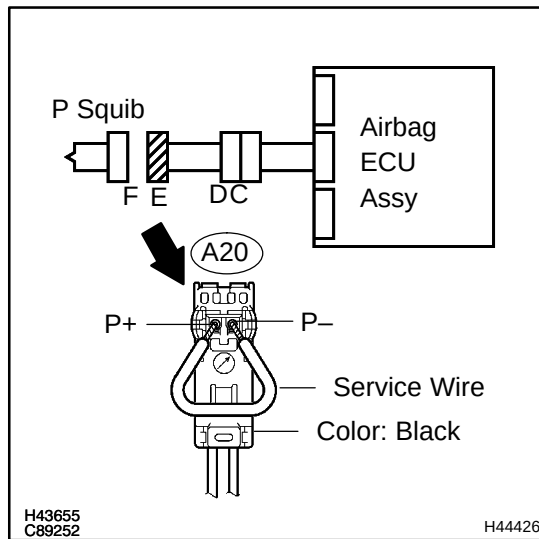
Tester connection	Condition	Specified condition
A20-1 (P+) – A20-2 (P–)	Always	Below 1 Ω

NG

Go to step 4

OK

2 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU Assy.
- (b) Using a service wire, connect A20-1 (P+) and A20-2 (P-) 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.**
- (c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
 - (d) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (e) Clear the DTCs stored in memory (see page 05-1402).
 - (f) Turn the power switch off.
 - (g) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (h) Check the DTCs (see page 05-1402).

OK:

DTC B1806 is not output.

HINT:

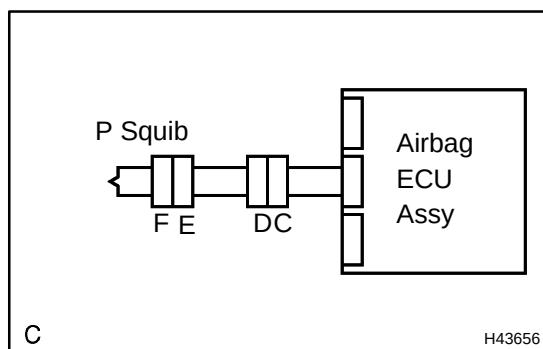
Codes other than code B1806 may be output at this time, but they are not related to this check.

NG

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

OK

3 CHECK FRONT PASSENGER AIRBAG ASSY(P 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 front passenger airbag 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 B1806 is not output.

HINT:

Codes other than code B1806 may be output at this time, but they are not related to this check.

NG

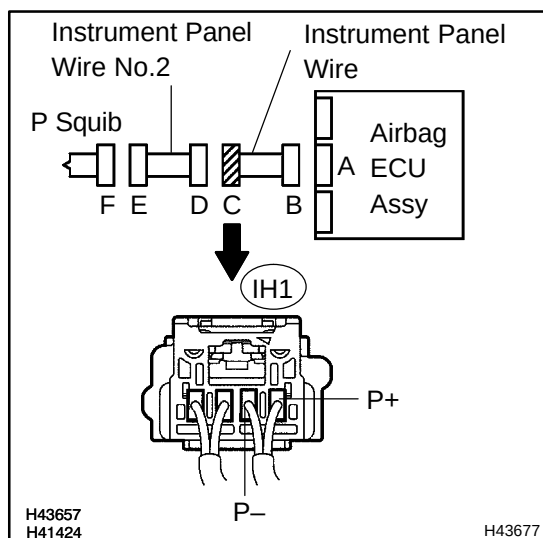
**REPLACE FRONT PASSENGER AIRBAG ASSY
(SEE PAGE 60-32)**

OK

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

HINT:

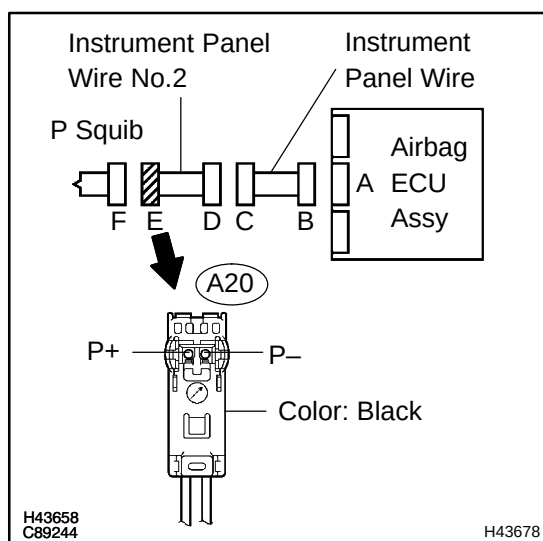
- Perform the simulation method by selecting the check mode with the hand-held tester (see page 05-1405).
- After selecting the check mode, perform the simulation method by wiggling each connector of the air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

4 CHECK INSTRUMENT PANEL WIRE

- (a) Disconnect the instrument panel wire connector from the instrument panel wire No.2.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
IH1-1 (P+) – IH1-2 (P-)	Always	Below 1 Ω

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE****OK****5 CHECK INSTRUMENT PANEL WIRE NO.2**

- (a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A20-1 (P+) – A20-2 (P-)	Always	Below 1 Ω

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1807/52	SHORT IN P SQUIB CIRCUIT (TO GROUND)
------------	-----------------	---

CIRCUIT DESCRIPTION

The P squib circuit consists of the airbag ECU assy and the front passenger airbag assy.

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

DTC B1807 is recorded when a short to ground is detected in the P squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1807	• When the Airbag ECU assy receives a short to ground signal in the P squib circuit for 0.5 seconds. • P squib malfunction • Airbag ECU assy malfunction	• Instrument panel wire • Instrument panel wire No.2 • Front passenger airbag assy (P squib) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1481](#).

INSPECTION PROCEDURE

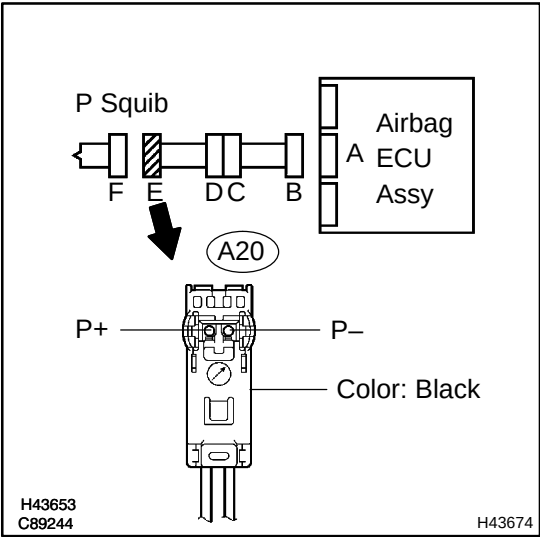
CAUTION:

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 P SQUIB CIRCUIT(AIRBAG ECU ASSY – FRONT PASSENGER AIRAG ASSY)



OK

- (a) Measure the resistance according to the value(s) in the table below.

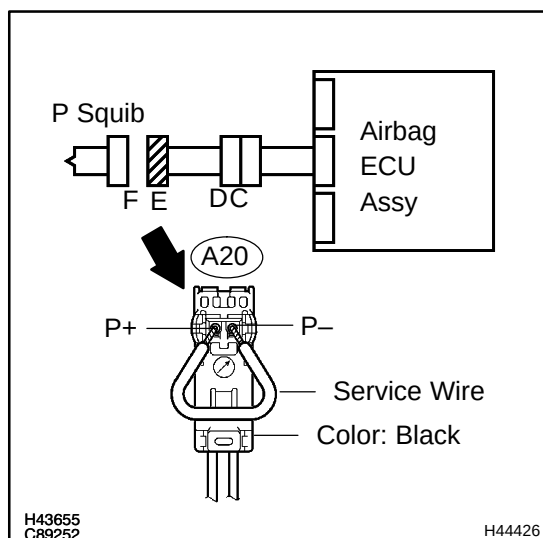
Standard:

Tester connection	Condition	Specified condition
A20-1 (P+) – Body ground	Always	1 MΩ or Higher
A20-2 (P-) – Body ground	Always	1 MΩ or Higher

NG

Go to step 4

2 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU Assy.
- (b) Using a service wire, connect A20-1 (P+) and A20-2 (P-) 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.**
- (c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
 - (d) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (e) Clear the DTCs stored in memory (see page 05-1402).
 - (f) Turn the power switch off.
 - (g) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (h) Check the DTCs (see page 05-1402).

OK:

DTC B1807 is not output.

HINT:

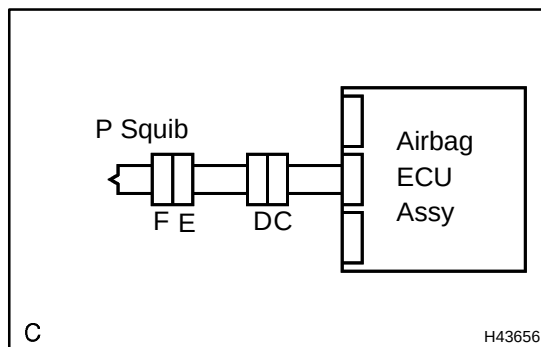
Codes other than code B1807 may be output at this time, but they are not related to this check.

NG

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

OK

3 CHECK FRONT PASSENGER AIRBAG ASSY(P 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 front passenger airbag 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 B1807 is not output.

HINT:

Codes other than code B1807 may be output at this time, but they are not related to this check.

NG

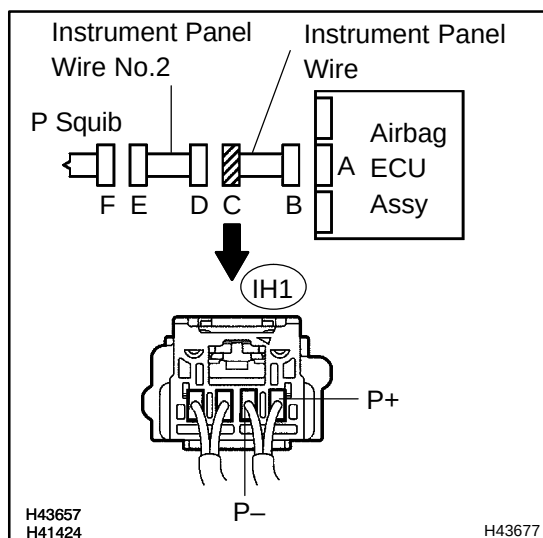
**REPLACE FRONT PASSENGER AIRBAG ASSY
(SEE PAGE 60-32)**

OK

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

HINT:

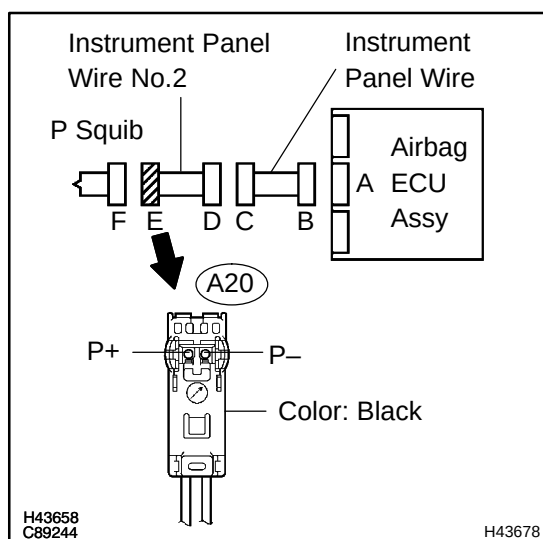
- Perform the simulation method by selecting the check mode with the hand-held tester (see page 05-1405).
- After selecting the check mode, perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page 05-1405).

4 CHECK INSTRUMENT PANEL WIRE

- (a) Disconnect the instrument panel wire connector from the instrument panel wire No.2.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
IH1-1 (P+) – Body ground	Always	1 MΩ or Higher
IH1-2 (P-) – Body ground	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE****OK****5 CHECK INSTRUMENT PANEL WIRE NO.2**

- (a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A20-1 (P+) – Body ground	Always	1 MΩ or Higher
A20-2 (P-) – Body ground	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1808/52	SHORT IN P SQUIB CIRCUIT (TO B+)
------------	-----------------	---

CIRCUIT DESCRIPTION

The P squib circuit consists of the airbag ECU assy and the front passenger airbag assy.

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

DTC B1808 is recorded when a short to B+ is detected in the P squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1808	• When the airbag ECU assy receives a B+ short signal in the P squib circuit for 0.5 seconds. • P squib malfunction • Airbag ECU assy malfunction	• Instrument panel wire • Instrument panel wire No.2 • Front passenger airbag assy (P squib) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1481](#).

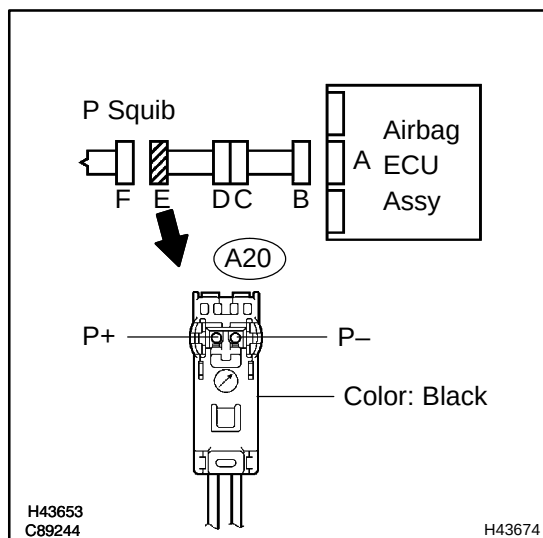
INSPECTION PROCEDURE

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 P SQUIB CIRCUIT(AIRBAG ECU ASSY – FRONT PASSENGER AIRBAG 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:

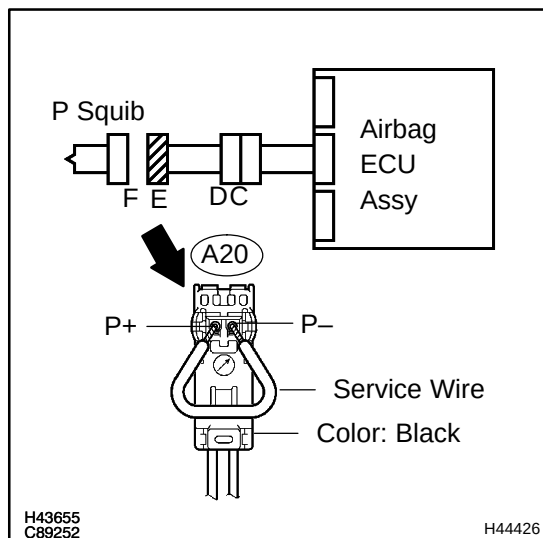
Tester connection	Condition	Specified condition
A20-1 (P+) – Body ground	Power switch is on (IG)	Below 1 V
A20-2 (P-) – Body ground	Power switch is on (IG)	Below 1 V

NG

Go to step 4

OK

2 CHECK AIR BAG ECU ASSY



- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Connect the connectors to the airbag ECU Assy.
- Using a service wire, connect A20–1 (P+) and A20–2 (P–) 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.
- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
 - Turn the power switch on (IG), and wait for at least 60 seconds.
 - Clear the DTCs stored in memory (see page 05-1402).
 - Turn the power switch off.
 - Turn the power switch on (IG), and wait for at least 60 seconds.
 - Check the DTCs (see page 05-1402).

OK:

DTC B1808 is not output.

HINT:

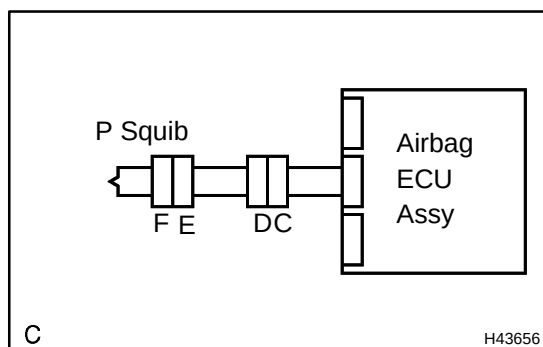
Codes other than code B1808 may be output at this time, but they are not related to this check.

NG

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

OK

3 CHECK FRONT PASSENGER AIRBAG ASSY(P 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 front passenger airbag 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 B1808 is not output.

HINT:

Codes other than code B1808 may be output at this time, but they are not related to this check.

NG

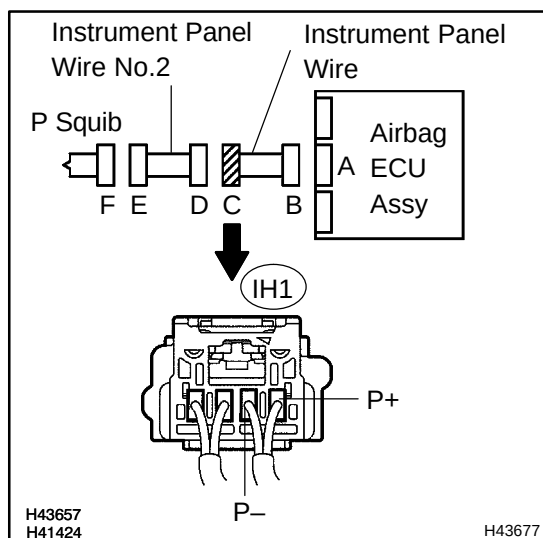
**REPLACE FRONT PASSENGER AIRBAG ASSY
(SEE PAGE 60-32)**

OK

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

HINT:

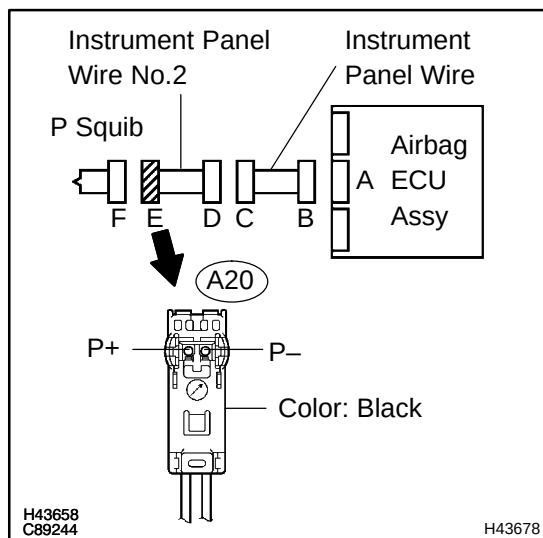
- Perform the simulation method by selecting the check mode with the hand-held tester (see page 05-1405).
- After selecting the check mode, perform the simulation method by wiggling each connector of the air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

4 CHECK INSTRUMENT PANEL WIRE

- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the instrument panel wire connector from the instrument panel wire No.2.
- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG).
- Measure the voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
IH1–1 (P+) – Body ground	Power switch is on (IG)	Below 1 V
IH1–2 (P–) – Body ground	Power switch is on (IG)	Below 1 V

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE****OK****5 CHECK INSTRUMENT PANEL WIRE NO.2**

- 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
A20–1 (P+) – Body ground	Power switch is on (IG)	Below 1 V
A20–2 (P–) – Body ground	Power switch is on (IG)	Below 1 V

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.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 air-bag system or driving the vehicle on a city or rough road (see page 05–1405).

DTC	B1810/53	SHORT IN D SQUIB (DUAL STAGE – 2ND STEP) CIRCUIT
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CIRCUIT DESCRIPTION

The D squib (Dual stage – 2nd step) 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 B1810 is recorded when a short circuit is detected in the D squib (Dual stage – 2nd step) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1810	• When the airbag ECU Assy receives a line short signal 5 times in the D squib (Dual stage – 2nd step) circuit during primary check. • D squib (Dual stage – 2nd step) malfunction • Spiral cable sub-assy malfunction • Airbag ECU Assy malfunction	• Instrument panel wire • Spiral cable sub-assy • Horn button Assy (D squib, Dual stage – 2nd step) • Airbag ECU Assy

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 CONNECTOR

- (a) Check that the spiral cable sub-assy connectors (on the horn button Assy side) are not damaged.

OK:

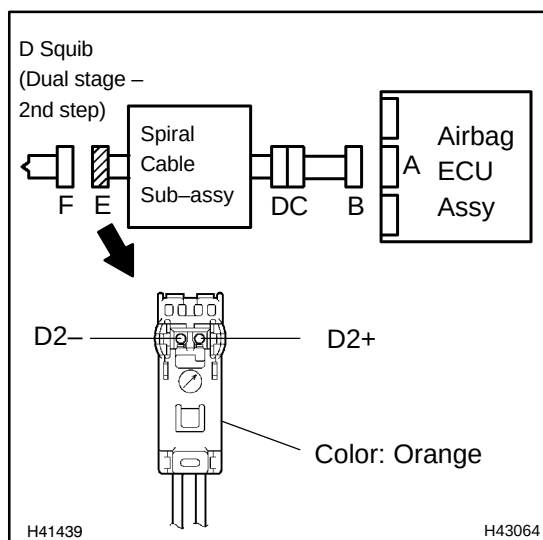
The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG

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

OK

2 CHECK D SQUIB (DUAL STAGE – 2ND STEP) CIRCUIT(AIRBAG ECU ASSY – HORN BUTTON ASSY)



- (a) Release the activation prevention mechanism built into connector "B" (see page 05-1397).
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

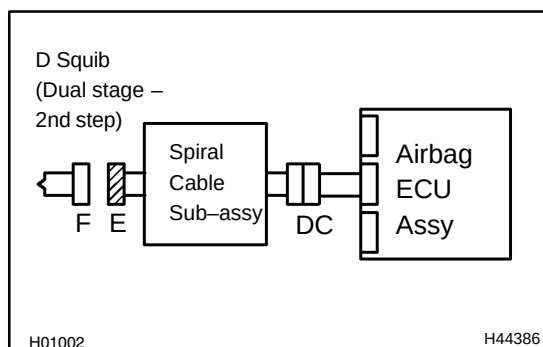
Tester connection	Condition	Specified condition
D2+ – D2–	Always	1 MΩ or Higher

NG

Go to step 5

OK

3 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU assy.
- (b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the power switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in memory (see page 05-1402).
- (e) Turn the power switch off.
- (f) Turn the power switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (see page 05-1402).

OK:

DTC B1810 is not output.

HINT:

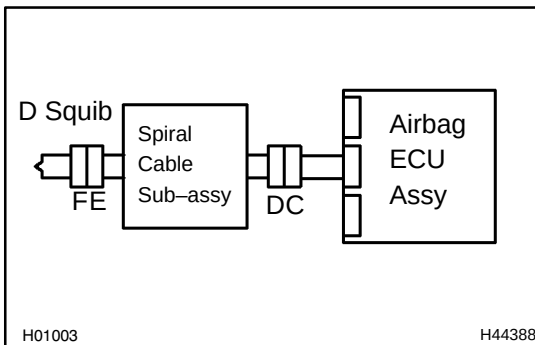
Codes other than code B1810 may be output at this time, but they are not related to this check.

NG

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

OK

4

CHECK HORN BUTTON ASSY(D SQUIB (DUAL STAGE – 2ND STEP))

- (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 horn button assy.
- (d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (e) Turn the power switch on (IG), and wait for at least 60 seconds.
- (f) Clear the DTCs stored in memory (see page 05-1402).
- (g) Turn the power switch off.
- (h) Turn the power switch on (IG), and wait for at least 60 seconds.
- (i) Check the DTCs (see page 05-1402).

OK:**DTC B1810 is not output.****HINT:**

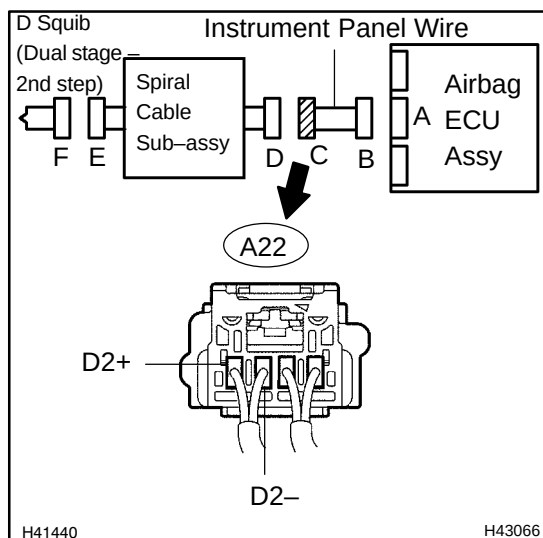
Codes other than code B1810 may be output at this time, but they are not related to this check.

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).

5 CHECK INSTRUMENT PANEL WIRE

- (a) Disconnect the instrument panel wire connector from the spiral cable sub-assy.

HINT:

The activation prevention mechanism of connector "B" has already been released.

- (b) Measure the resistance according to the value(s) in the table below.

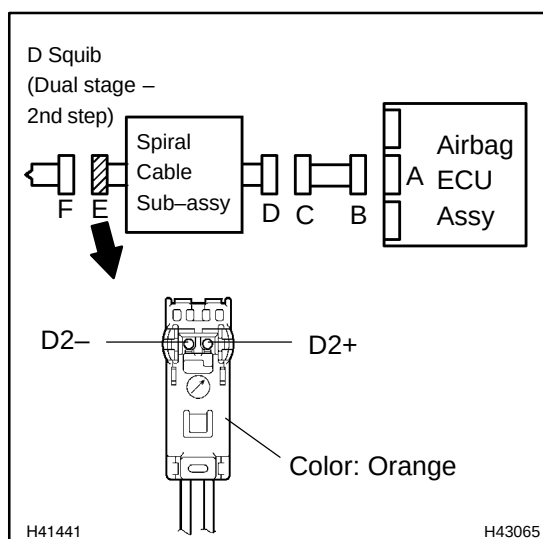
Standard:

Tester connection	Condition	Specified condition
A22-4 (D2+) – A22-3 (D2-)	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

6 CHECK SPIRAL CABLE SUB-ASSY

- (a) Release the activation prevention mechanism built into connector "D" (see page 05-1397).

- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
D2+ – D2-	Always	1 MΩ or Higher

NG

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

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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1811/53	OPEN IN D SQUIB (DUAL STAGE – 2ND STEP) CIRCUIT
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CIRCUIT DESCRIPTION

The D squib (Dual stage – 2nd step) 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 B1811 is recorded when an open circuit is detected in the D squib (Dual stage – 2nd step) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1811	• When the airbag ECU Assy receives an open signal circuit in the D squib (Dual stage – 2nd step) circuit for 2 seconds. • D squib (Dual stage – 2nd step) malfunction • Spiral cable sub-assy malfunction • Airbag ECU Assy malfunction	• Instrument panel wire • Spiral cable sub-assy • Horn button Assy (D squib, Dual stage – 2nd step) • Airbag ECU Assy

WIRING DIAGRAM

See page [05-1461](#).

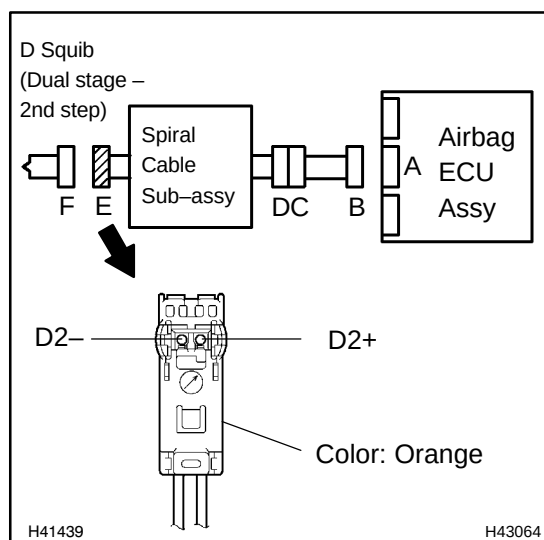
INSPECTION PROCEDURE

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 (DUAL STAGE – 2ND STEP) CIRCUIT(AIRBAG ECU ASSY – HORN BUTTON ASSY)



- (a) Measure the resistance according to the value(s) in the table below.

Standard:

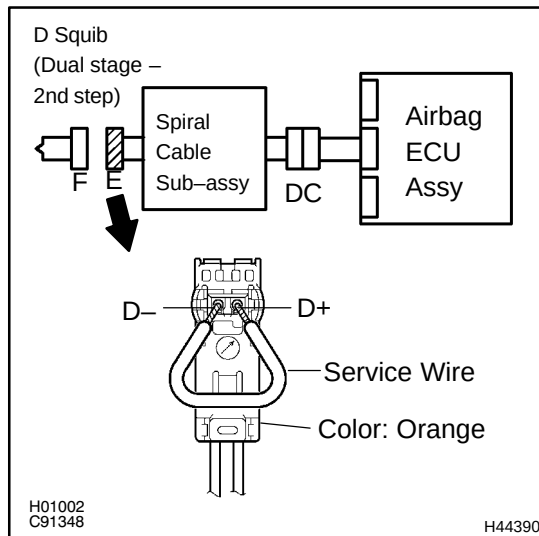
Tester connection	Condition	Specified condition
D2+ – D2–	Always	Below 1 Ω

NG

Go to step 4

OK

2 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU Assy.
- (b) Using a service wire, connect D2+ and D2– 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.**
- (c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
 - (d) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (e) Clear the DTCs stored in memory (see page 05-1402).
 - (f) Turn the power switch off.
 - (g) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (h) Check the DTCs (see page 05-1402).

OK:

DTC B1811 is not output.

HINT:

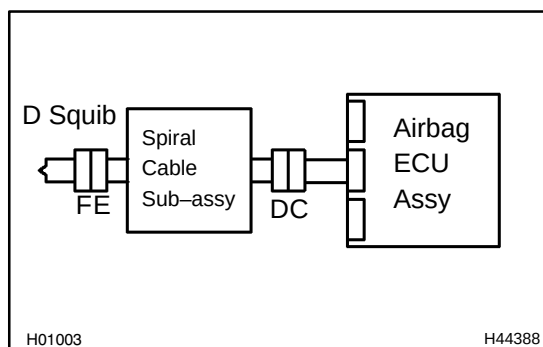
Codes other than code B1811 may be output at this time, but they are not related to this check.

NG

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

OK

3 CHECK HORN BUTTON ASSY(D SQUIB (DUAL STAGE – 2ND STEP))



- (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 B1811 is not output.

HINT:

Codes other than code B1811 may be output at this time, but they are not related to this check.

NG

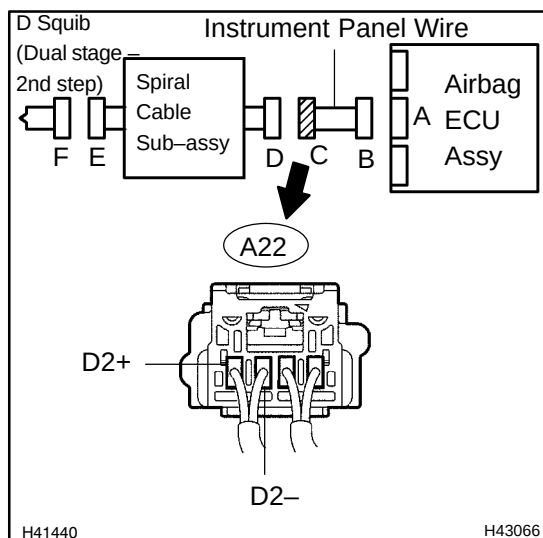
**REPLACE HORN BUTTON ASSY
(SEE PAGE 60-20)**

OK

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

HINT:

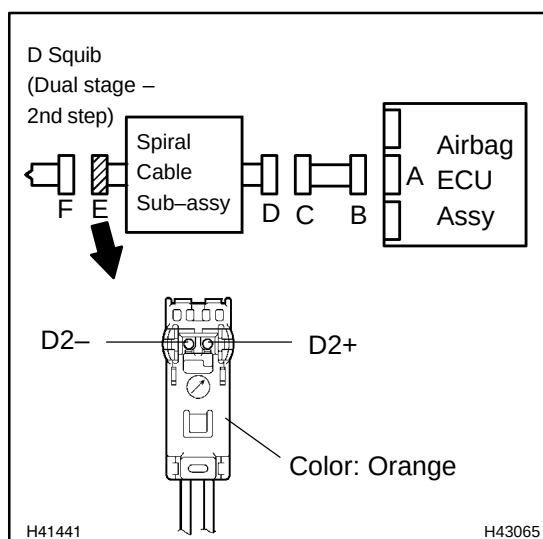
- Perform the simulation method by selecting the check mode with the hand-held tester (see page 05-1405).
- After selecting the check mode, perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page 05-1405).

4 CHECK INSTRUMENT PANEL WIRE

- (a) Disconnect the instrument panel wire connector from the spiral cable sub-assy.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A22-4 (D2+) – A22-3 (D2-)	Always	Below 1 Ω

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE****OK****5 CHECK SPIRAL CABLE SUB-ASSY**

- (a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
D2+ – D2-	Always	Below 1 Ω

NG**REPLACE SPIRAL CABLE SUB-ASSY
(SEE PAGE 60-29)****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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1812/53	SHORT IN D SQUIB (DUAL STAGE – 2ND STEP) CIRCUIT (TO GROUND)
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CIRCUIT DESCRIPTION

The D squib (Dual stage – 2nd step) 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 B1812 is recorded when a short to ground is detected in the D squib (Dual stage – 2nd step) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1812	• When the airbag ECU Assy receives a short to ground signal in the D squib (Dual stage – 2nd step) circuit for the 0.5 seconds. • D squib (Dual stage – 2nd step) malfunction • Spiral cable sub-assy malfunction • Airbag ECU Assy malfunction	• Instrument panel wire • Spiral cable sub-assy • Horn button Assy (D squib, Dual stage – 2nd step) • Airbag ECU Assy

WIRING DIAGRAM

See page [05-1461](#).

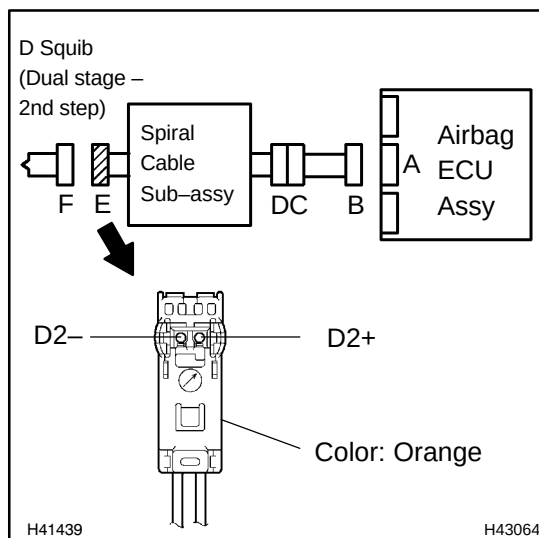
INSPECTION PROCEDURE

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 (DUAL STAGE – 2ND STEP) CIRCUIT(AIRBAG ECU ASSY – HORN BUTTON ASSY)



- (a) Measure the resistance according to the value(s) in the table below.

Standard:

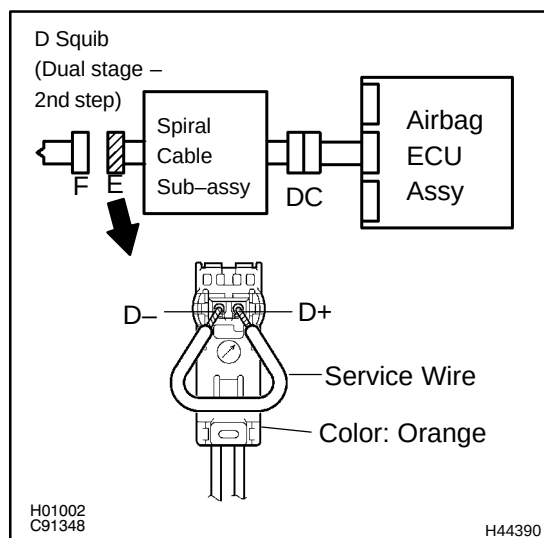
Tester connection	Condition	Specified condition
D2+ – Body ground	Always	1 MΩ or Higher
D2– – Body ground	Always	1 MΩ or Higher

NG

Go to step 4

OK

2 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU Assy.
- (b) Using a service wire, connect D2+ and D2– 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.**
- (c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
 - (d) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (e) Clear the DTCs stored in memory (see page 05-1402).
 - (f) Turn the power switch off.
 - (g) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (h) Check the DTCs (see page 05-1402).

OK:

DTC B1812 is not output.

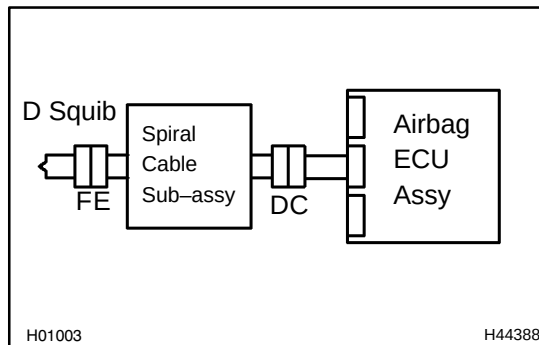
HINT:

Codes other than code B1812 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 (DUAL STAGE – 2ND STEP))**

- (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 B1812 is not output.****HINT:**

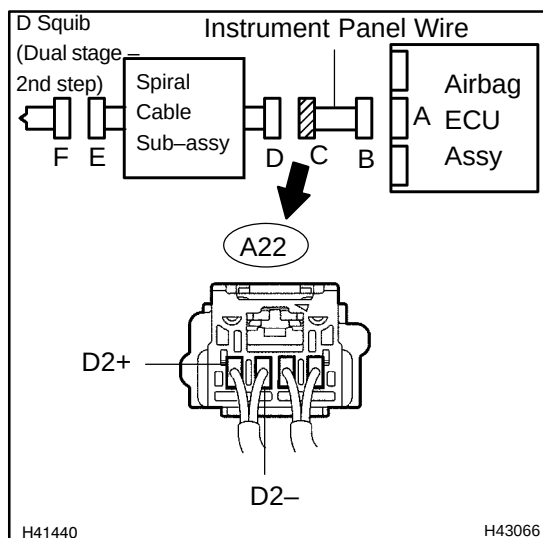
Codes other than code B1812 may be output at this time, but they are not related to this check.

NG

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

OK**USE SIMULATION METHOD TO CHECK (SEE PAGE 05-1397)****HINT:**

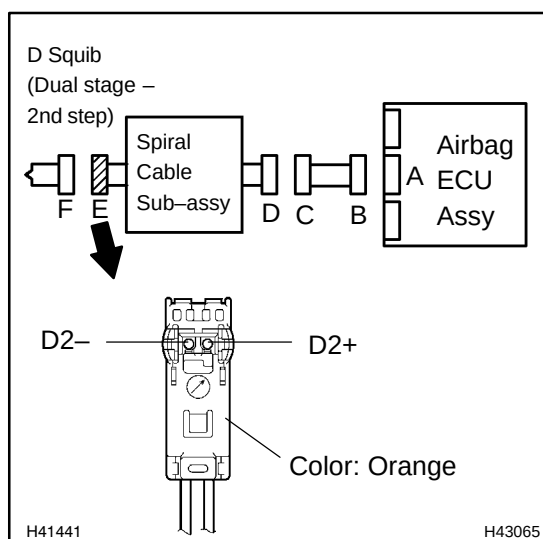
- Perform the simulation method by selecting the check mode with the hand-held tester (see page 05-1405).
- After selecting the check mode, perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page 05-1405).

4 CHECK INSTRUMENT PANEL WIRE

- (a) Disconnect the instrument panel wire connector from the spiral cable sub-assy.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A22–4 (D2+) – Body ground	Always	1 MΩ or Higher
A22–3 (D2–) – Body ground	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE****OK****5 CHECK SPIRAL CABLE SUB-ASSY**

- (a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
D2+ – Body ground	Always	1 MΩ or Higher
D2– – Body ground	Always	1 MΩ or Higher

NG**REPLACE SPIRAL CABLE SUB-ASSY (SEE PAGE 60-29)****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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1813/53	SHORT IN D SQUIB (DUAL STAGE – 2ND STEP) CIRCUIT (TO B+)
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CIRCUIT DESCRIPTION

The D squib (Dual stage – 2nd step) 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 B1813 is recorded when a short to B+ is detected in the D squib (Dual stage – 2nd step) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1813	• When the airbag ECU assy receives a B+ short signal in the D squib (Dual stage – 2nd step) circuit for 0.5 seconds. • D squib (Dual stage – 2nd step) malfunction • Spiral cable sub-assy malfunction • Airbag ECU assy malfunction	• Instrument panel wire • Spiral cable sub-assy • Horn button assy (D squib, Dual stage – 2nd step) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1461](#).

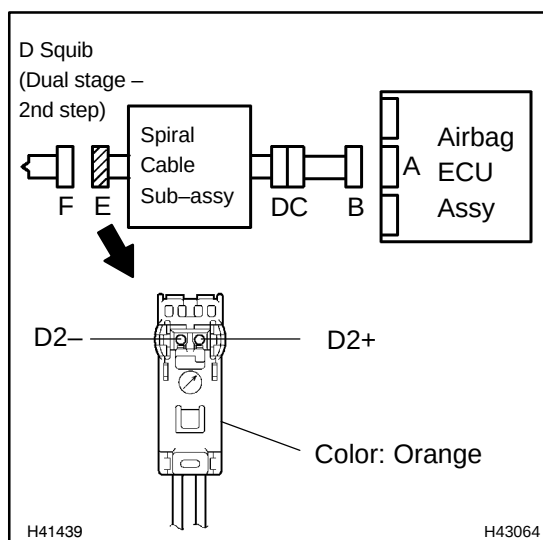
CIRCUIT INSPECTION

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 (DUAL STAGE – 2ND STEP) 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:

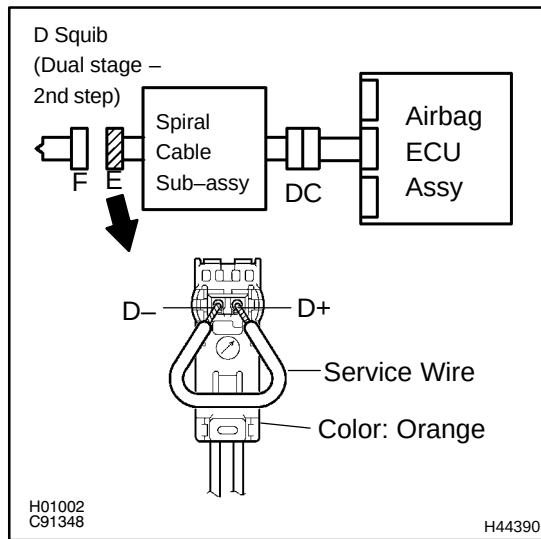
Tester connection	Condition	Specified condition
D2+ – Body ground	Power switch is on (IG)	Below 1 V
D2– – Body ground	Power switch is on (IG)	Below 1 V

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 D2+ and D2– 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 B1813 is not output.

HINT:

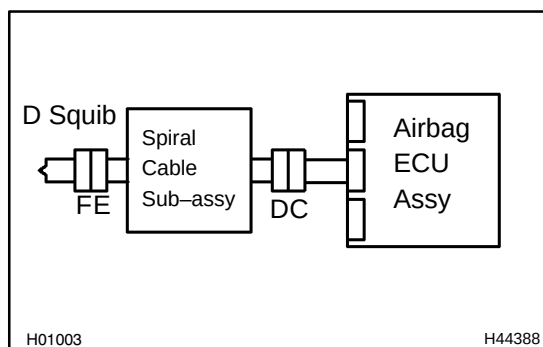
Codes other than code B1813 may be output at this time, but they are not related to this check.

NG

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

OK

3 CHECK HORN BUTTON ASSY(D SQUIB (DUAL STAGE – 2ND STEP))



- (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 B1813 is not output.

HINT:

Codes other than code B1813 may be output at this time, but they are not related to this check.

NG

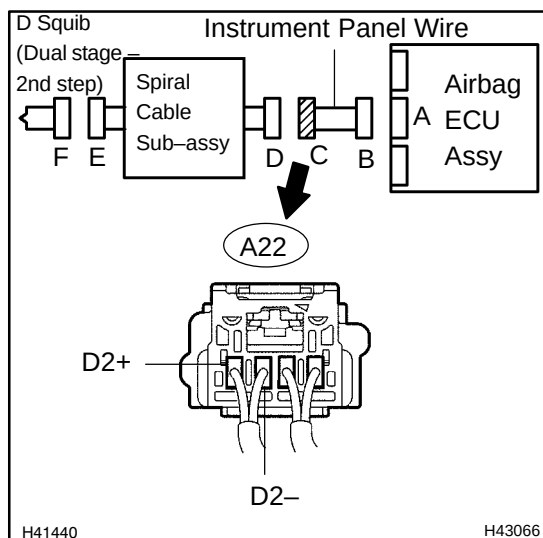
**REPLACE HORN BUTTON ASSY
(SEE PAGE 60-20)**

OK

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

HINT:

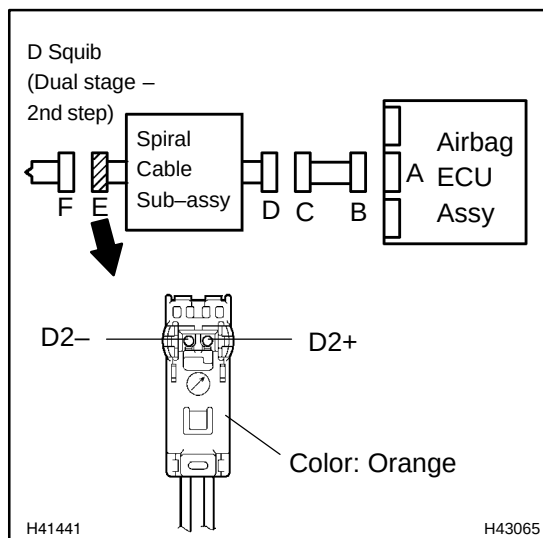
- Perform the simulation method by selecting the check mode with the hand-held tester (see page 05-1405).
- After selecting the check mode, perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page 05-1405).

4 CHECK INSTRUMENT PANEL WIRE

- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the instrument panel wire connector from the spiral cable sub-assy.
- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG).
- Measure the voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A22–4 (D2+) – Body ground	Power switch is on (IG)	Below 1 V
A22–3 (D2–) – Body ground	Power switch is on (IG)	Below 1 V

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE****OK****5 CHECK SPIRAL CABLE SUB-ASSY**

- 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
D2+ – Body ground	Power switch is on (IG)	Below 1 V
D2– – 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 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 air-bag system or driving the vehicle on a city or rough road (see page 05–1405).

DTC	B1815/54	SHORT IN P SQUIB (DUAL STAGE – 2ND STEP) CIRCUIT
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CIRCUIT DESCRIPTION

The P squib (Dual stage – 2nd step) circuit consists of the airbag ECU assy and the front passenger airbag assy.

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

DTC B1815 is recorded when a short circuit is detected in the P squib (Dual stage – 2nd step) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1815	• When the airbag ECU assy receives a line short signal 5 times in the P squib (Dual stage – 2nd step) circuit during primary check. • P squib (Dual stage – 2nd step) malfunction • Airbag ECU assy malfunction	• Instrument panel wire • Instrument panel wire No.2 • Front passenger airbag assy (P squib, Dual stage – 2nd step) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1481](#).

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 CONNECTOR

- (a) Check that the instrument panel wire No.2 connectors (on the front passenger airbag Assy side) are not damaged.

OK:

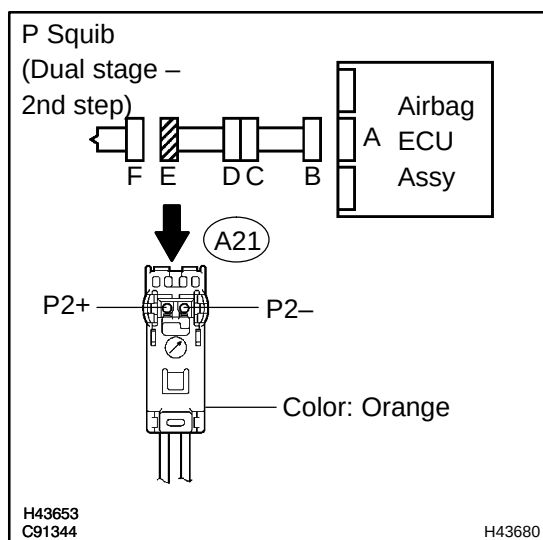
The lock button is not disengaged, or the claw of the lock is not damaged or deformed.

NG

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.2

OK

2 CHECK P SQUIB (DUAL STAGE – 2ND STEP) CIRCUIT(AIRBAG ECU ASSY – FRONT PASSENGER AIRBAG ASSY)



- (a) Release the activation prevention mechanism built into connector "B" (see page 05-1397).
- (b) Measure the resistance according to the value(s) in the table below.

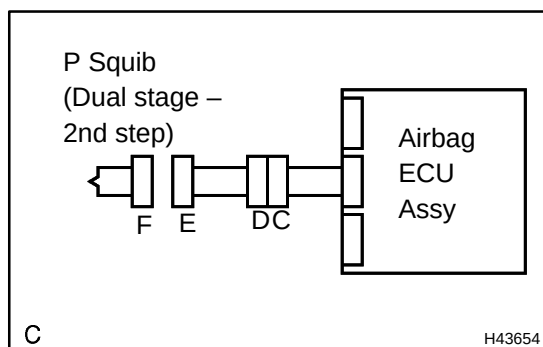
Standard:

Tester connection	Condition	Specified condition
A21–1 (P2+) – A21–2 (P2–)	Always	1 MΩ or Higher

NG

Go to step 5

OK

3 CHECK AIR BAG ECU ASSY

- (a) Connect the connectors to the airbag ECU assy.
- (b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the power switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in memory (see page 05-1402).
- (e) Turn the power switch off.
- (f) Turn the power switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (see page 05-1402).

OK:**DTC B1815 is not output.****HINT:**

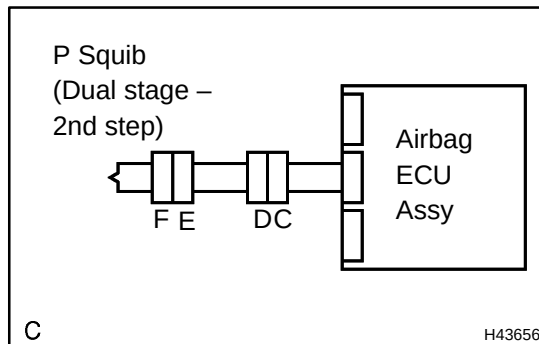
Codes other than code B1815 may be output at this time, but they are not related to this check.

NG

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

OK

4 CHECK FRONT PASSENGER AIRBAG ASSY(P SQUIB (DUAL STAGE – 2ND STEP))



- (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 front passenger airbag 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 B1815 is not output.

HINT:

Codes other than code B1815 may be output at this time, but they are not related to this check.

NG

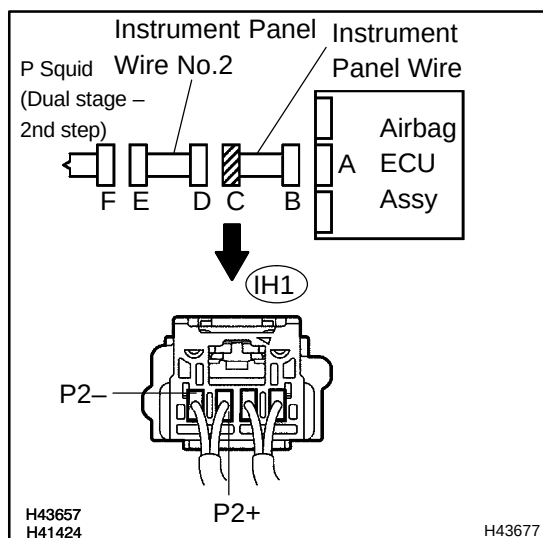
**REPLACE FRONT PASSENGER AIRBAG ASSY
(SEE PAGE 60-32)**

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).

5 CHECK INSTRUMENT PANEL WIRE

- (a) Disconnect the instrument panel wire connector from the instrument panel wire No.2.

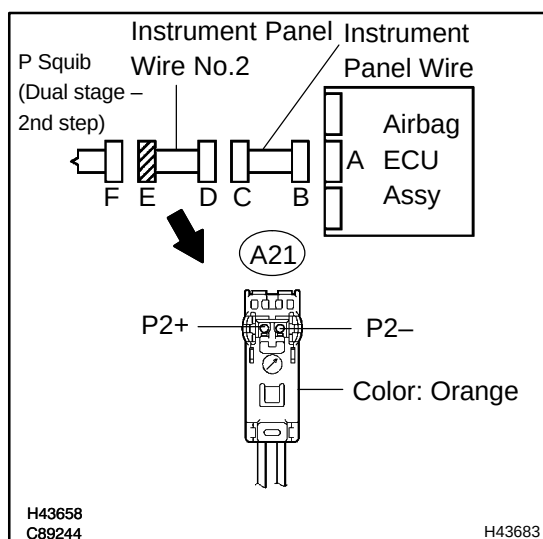
HINT:

The activation prevention mechanism of connector "B" has already been released.

- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
IH1-3 (P2+) – IH1-4 (P2-)	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE****OK****6 CHECK INSTRUMENT PANEL WIRE NO.2**

- (a) Release the activation prevention mechanism built into connector "D" (see page 05-1397).

- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A21-1 (P2+) – A21-2 (P2-)	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1816/54	OPEN IN P SQUIB (DUAL STAGE – 2ND STEP) CIRCUIT
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CIRCUIT DESCRIPTION

The P squib (Dual stage – 2nd step) circuit consists of the airbag ECU assy and the front passenger airbag assy.

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

DTC B1816 is recorded when an open circuit is detected in the P squib (Dual stage – 2nd step) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1816	• When the airbag ECU assy receives an open signal in the P squib (Dual stage – 2nd step) circuit for 2 seconds. • P squib (Dual stage – 2nd step) malfunction • Airbag ECU assy malfunction	• Instrument panel wire • Instrument panel wire No.2 • Front passenger airbag assy (P squib, Dual stage – 2nd step) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1481](#).

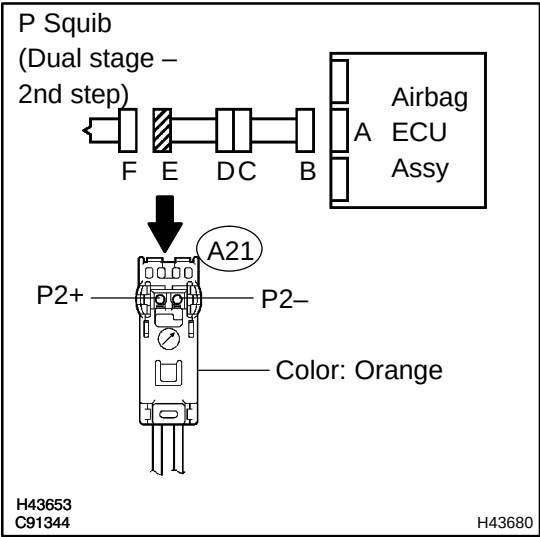
INSPECTION PROCEDURE

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 P SQUIB (DUAL STAGE – 2ND STEP) CIRCUIT(AIRBAG ECU ASSY – FRONT PASSENGER AIRBAG ASSY)



- (a) Measure the resistance according to the value(s) in the table below.

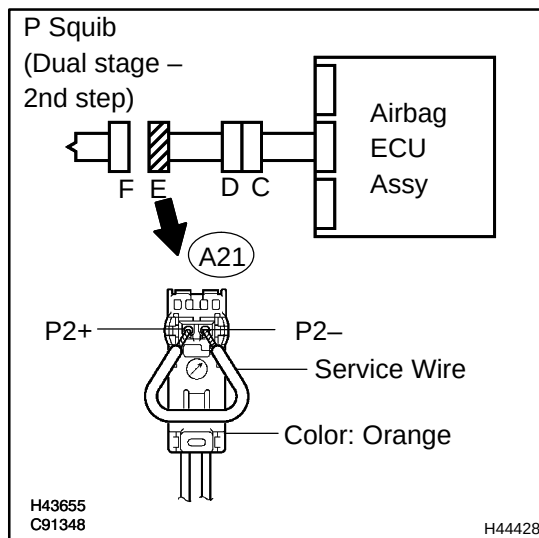
Standard:

Tester connection	Condition	Specified condition
A21-1 (P2+) – A21-2 (P2-)	Always	Below 1 Ω

NG Go to step 4

OK

2 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU assy.
- (b) Using a service wire, connect A21–1 (P2+) and A21–2 (P2–) 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.**
- (c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
 - (d) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (e) Clear the DTCs stored in memory (see page 05-1402).
 - (f) Turn the power switch off.
 - (g) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (h) Check the DTCs (see page 05-1402).

OK:

DTC B1816 is not output.

HINT:

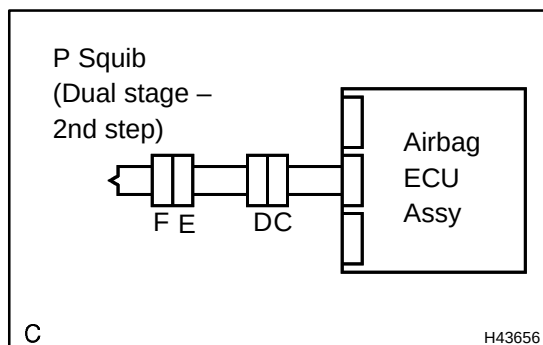
Codes other than code B1816 may be output at this time, but they are not related to this check.

NG

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

OK

3 CHECK FRONT PASSENGER AIRBAG ASSY(P SQUIB (DUAL STAGE – 2ND STEP))



- (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 front passenger airbag 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 B1816 is not output.

HINT:

Codes other than code B1816 may be output at this time, but they are not related to this check.

NG

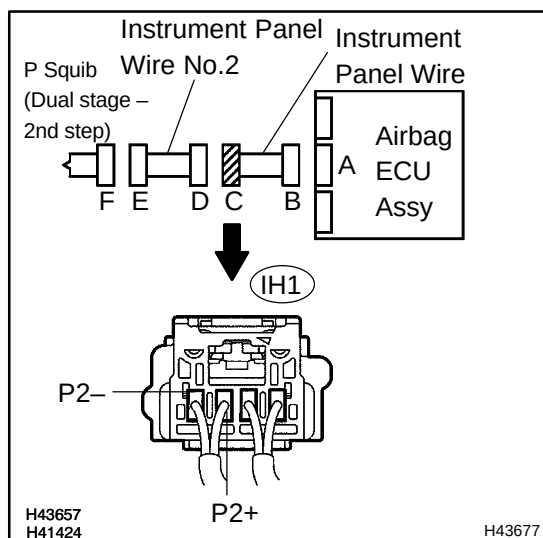
**REPLACE FRONT PASSENGER AIRBAG ASSY
(SEE PAGE 60-32)**

OK

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

HINT:

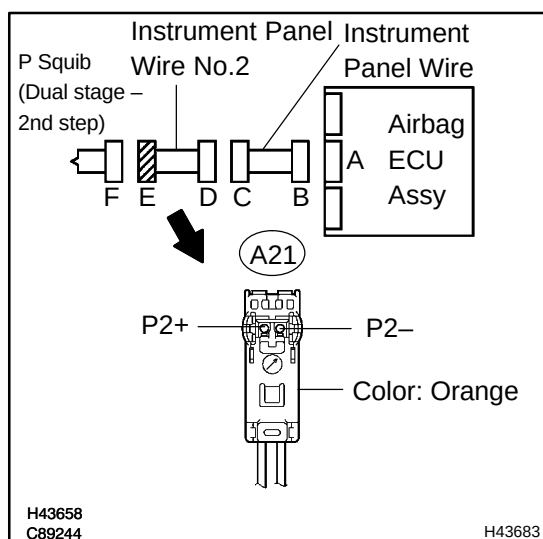
- Perform the simulation method by selecting the check mode with the hand-held tester (see page 05-1405).
- After selecting the check mode, perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page 05-1405).

4 CHECK INSTRUMENT PANEL WIRE

- (a) Disconnect the instrument panel wire connector from the instrument panel wire No.2.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
IH1-3 (P2+) – IH1-4 (P2-)	Always	Below 1 Ω

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE****OK****5 CHECK INSTRUMENT PANEL WIRE NO.2**

- (a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A21-1 (P2+) – A21-2 (P2-)	Always	Below 1 Ω

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1817/54	SHORT IN P SQUIB (DUAL STAGE – 2ND STEP) CIRCUIT (TO GROUND)
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CIRCUIT DESCRIPTION

The P squib (Dual stage – 2nd step) circuit consists of the airbag ECU Assy and the front passenger airbag Assy.

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

DTC B1817 is recorded when a short to ground is detected in the P squib (Dual stage – 2nd step) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1817	• When the airbag ECU Assy receives a short to ground signal in the P squib (Dual stage – 2nd step) circuit for 0.5 seconds. • P squib (Dual stage – 2nd step) malfunction • Airbag ECU Assy malfunction	• Instrument panel wire • Instrument panel wire No.2 • Front passenger airbag Assy (P squib, Dual stage – 2nd step) • Airbag ECU Assy

WIRING DIAGRAM

See page [05-1481](#).

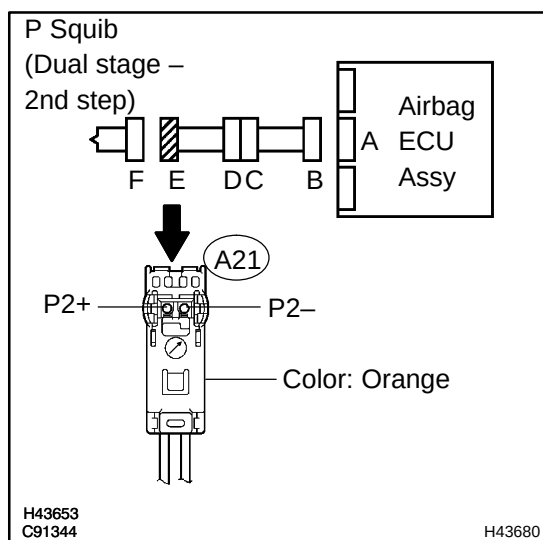
INSPECTION PROCEDURE

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 P SQUIB (DUAL STAGE – 2ND STEP) CIRCUIT(AIRBAG ECU ASSY – FRONT PASSENGER AIRBAG ASSY)



- (a) Measure the resistance according to the value(s) in the table below.

Standard:

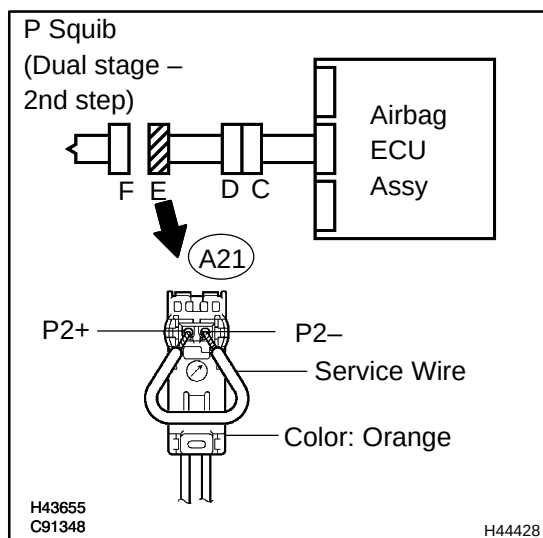
Tester connection	Condition	Specified condition
A21–1 (P2+) – Body ground	Always	1 MΩ or Higher
A21–2 (P2–) – Body ground	Always	1 MΩ or Higher

NG

Go to step 4

OK

2 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU assy.
- (b) Using a service wire, connect A21–1 (P2+) and A21–2 (P2–) 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.**
- (c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
 - (d) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (e) Clear the DTCs stored in memory (see page 05-1402).
 - (f) Turn the power switch off.
 - (g) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (h) Check the DTCs (see page 05-1402).

OK:

DTC B1817 is not output.

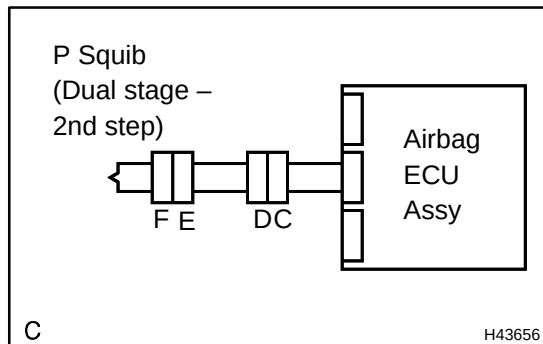
HINT:

Codes other than code B1817 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 PASSENGER AIRBAG ASSY(P SQUIB (DUAL STAGE – 2ND STEP))**

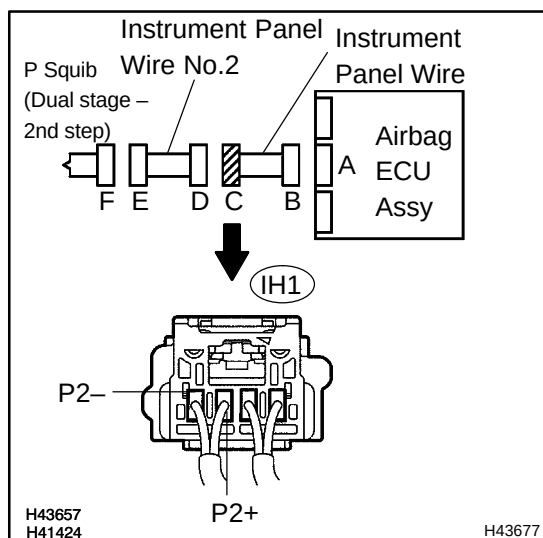
- (a) Turn the power switch off.
- (b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the service wire from connector "E".
- (d) Connect the connectors to the front passenger airbag assy.
- (e) Connect the negative (–) terminal cable to 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 B1817 is not output.****HINT:**

Codes other than code B1817 may be output at this time, but they are not related to this check.

NG**REPLACE FRONT PASSENGER AIRBAG ASSY
(SEE PAGE 60-32)****OK****USE SIMULATION METHOD TO CHECK (SEE PAGE 05-1397)****HINT:**

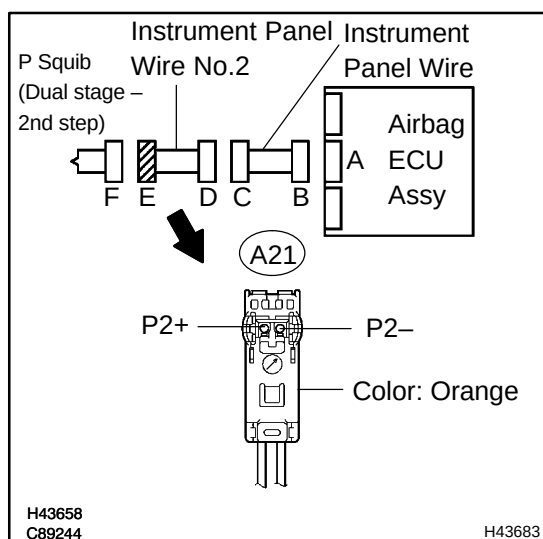
- Perform the simulation method by selecting the check mode with the hand-held tester (see page 05-1405).
- After selecting the check mode, perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page 05-1405).

4 CHECK INSTRUMENT PANEL WIRE

- (a) Disconnect the instrument panel wire connector from the instrument panel wire No.2.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
IH1-3 (P2+) – Body ground	Always	1 MΩ or Higher
IH1-4 (P2-) – Body ground	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE****OK****5 CHECK INSTRUMENT PANEL WIRE NO.2**

- (a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A21-1 (P2+) – Body ground	Always	1 MΩ or Higher
A21-2 (P2-) – Body ground	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1818/54	SHORT IN P SQUIB (DUAL STAGE – 2ND STEP) CIRCUIT (TO B+)
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CIRCUIT DESCRIPTION

The P squib (Dual stage – 2nd step) circuit consists of the airbag ECU assy and the front passenger airbag assy.

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

DTC B1818 is recorded when a short to B+ is detected in the P squib (Dual stage – 2nd step) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1818	• When the airbag ECU assy receives a B+ short signal in the P squib (Dual stage – 2nd step) circuit for 0.5 seconds. • P squib (Dual stage – 2nd step) malfunction • Airbag ECU assy malfunction	• Instrument panel wire • Instrument panel wire No.2 • Front passenger airbag assy (P squib, Dual stage – 2nd step) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1481](#).

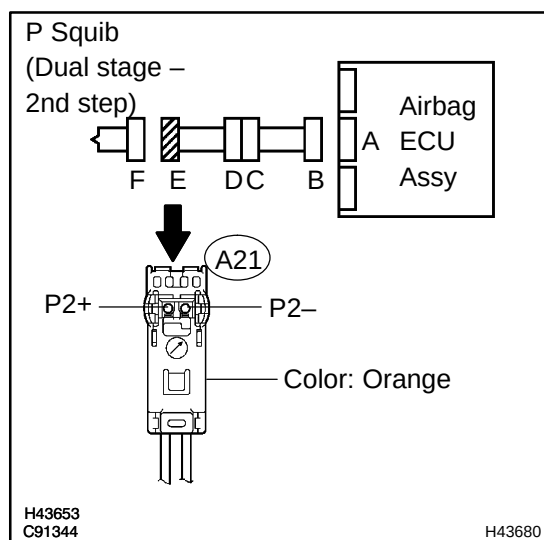
INSPECTION PROCEDURE

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 P SQUIB (DUAL STAGE – 2ND STEP) CIRCUIT(AIRBAG ECU ASSY – FRONT PASSENGER AIRBAG 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:

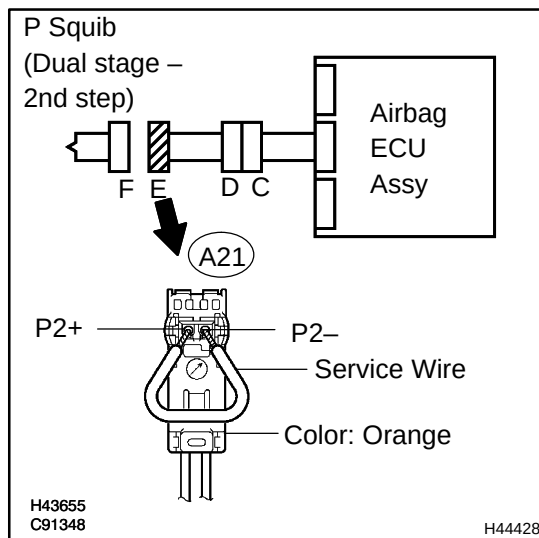
Tester connection	Condition	Specified condition
A21–1 (P2+) – Body ground	Power switch is on (IG)	Below 1 V
A21–2 (P2–) – Body ground	Power switch is on (IG)	Below 1 V

NG

Go to step 4

OK

2 CHECK AIR BAG ECU ASSY



- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Connect the connectors to the airbag ECU Assy.
- Using a service wire, connect A21–1 (P2+) and A21–2 (P2–) 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.
- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
 - Turn the power switch on (IG), and wait for at least 60 seconds.
 - Clear the DTCs stored in memory (see page 05-1402).
 - Turn the power switch off.
 - Turn the power switch on (IG), and wait for at least 60 seconds.
 - Check the DTCs (see page 05-1402).

OK:

DTC B1818 is not output.

HINT:

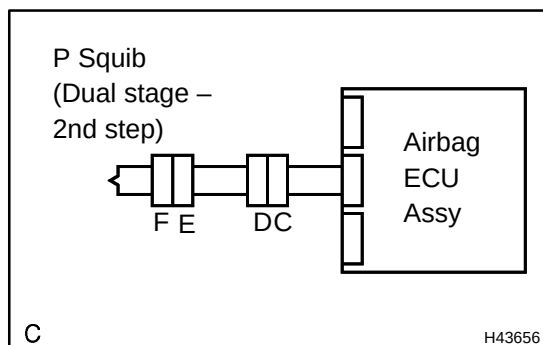
Codes other than code B1818 may be output at this time, but they are not related to this check.

NG

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

OK

3 CHECK FRONT PASSENGER AIRBAG ASSY(P SQUIB (DUAL STAGE – 2ND STEP))



- (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 front passenger airbag 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 B1818 is not output.

HINT:

Codes other than code B1818 may be output at this time, but they are not related to this check.

NG

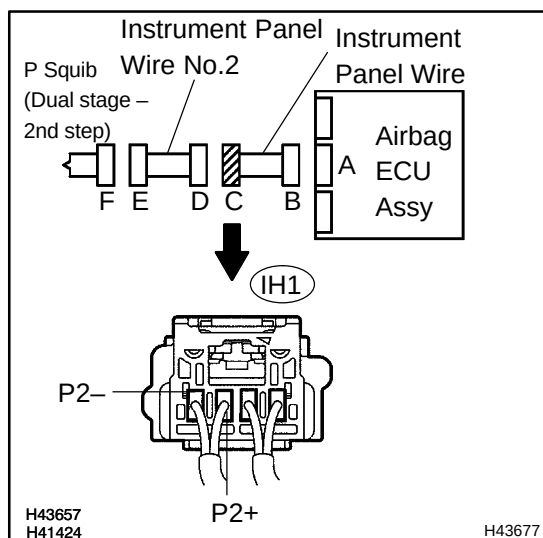
**REPLACE FRONT PASSENGER AIRBAG ASSY
(SEE PAGE 60-32)**

OK

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

HINT:

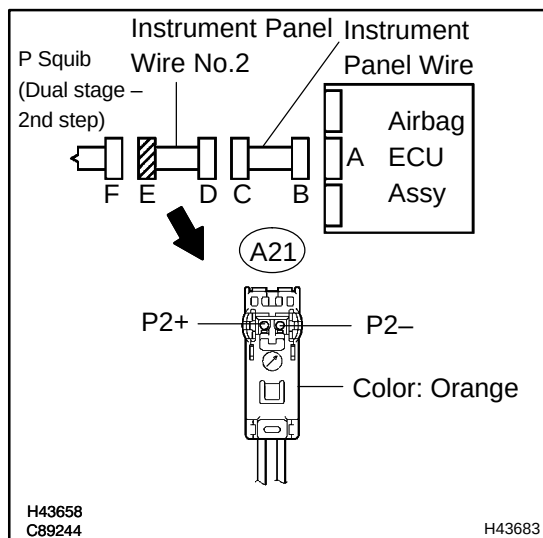
- Perform the simulation method by selecting the check mode with the hand-held tester (see page 05-1405).
- After selecting the check mode, perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page 05-1405).

4 CHECK INSTRUMENT PANEL WIRE

- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the instrument panel wire connector from the instrument panel wire No.2.
- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG).
- Measure the voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
IH1–3 (P2+) – Body ground	Power switch is on (IG)	Below 1 V
IH1–4 (P2–) – Body ground	Power switch is on (IG)	Below 1 V

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE****OK****5 CHECK INSTRUMENT PANEL WIRE NO.2**

- 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
A21–1 (P2+) – Body ground	Power switch is on (IG)	Below 1 V
A21–2 (P2–) – Body ground	Power switch is on (IG)	Below 1 V

NG**REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO.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 air-bag system or driving the vehicle on a city or rough road (see page 05–1405).

DTC	B1820/55	SHORT IN SIDE SQUIB (D SEAT SIDE) CIRCUIT
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CIRCUIT DESCRIPTION

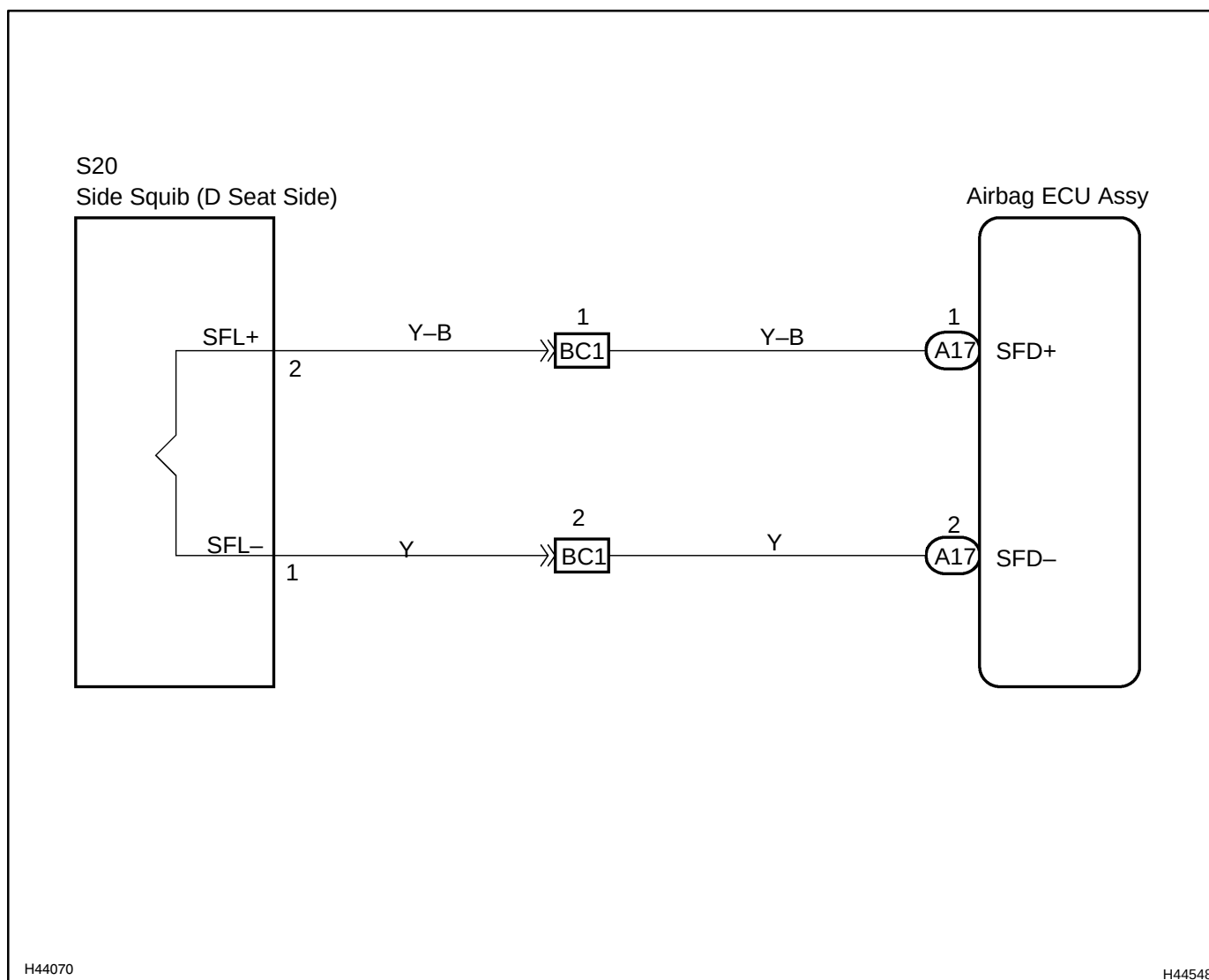
The side squib (D seat side) circuit consists of the airbag ECU Assy and the front seat w/ adjuster frame Assy LH (side squib (D seat side)).

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

DTC B1820 is recorded when a short circuit is detected in the side squib (D seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1820	- When the airbag ECU Assy receives a line short signal 5 times in the side squib (D seat side) circuit during primary check. - Side squib (D seat side) malfunction - Airbag ECU Assy malfunction	- Floor wire - Seat airbag No.1 wire - Front seat w/ adjuster frame Assy LH (Side squib (D seat side)) - Airbag ECU Assy

WIRING DIAGRAM



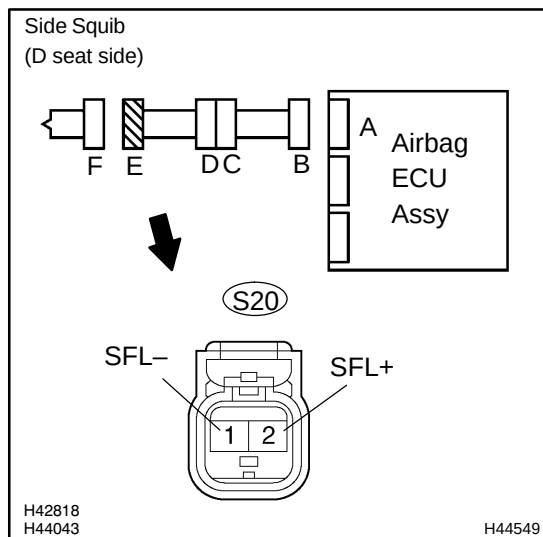
INSPECTION PROCEDURE

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 (D SEAT SIDE) CIRCUIT



- (a) Release the activation prevention mechanism built into connector "B" (see page 05-1397).
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

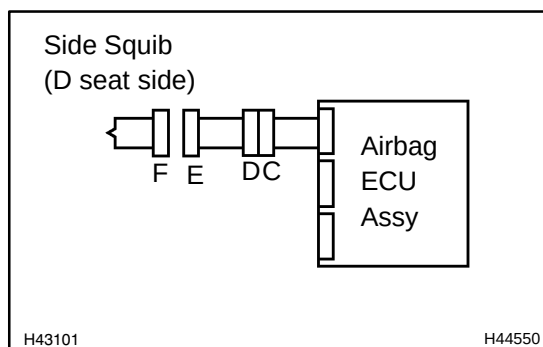
Tester connection	Condition	Specified condition
S20-2 (SFL+) – S20-1 (SFL-)	Always	1 MΩ or Higher

NG

Go to step 4

OK

2 CHECK AIR BAG ECU ASSY



- Connect the connectors to the airbag ECU Assy.
- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in memory (see page 05-1402).
- Turn the power switch off.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (see page 05-1402).

OK:

DTC B1820 is not output.

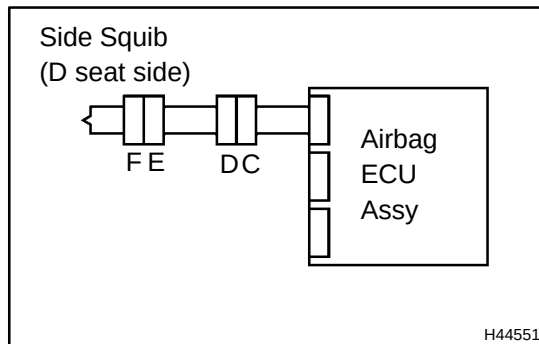
HINT:

Codes other than code B1820 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 LH(SIDE SQUIB (D SEAT SIDE))**

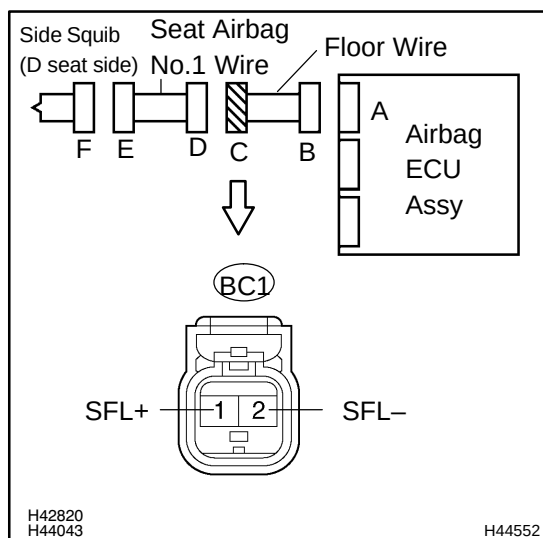
- (a) Turn the power switch off.
- (b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Connect the connector to the front seat w/ adjuster frame assy LH (side squib (D seat side)).
- (d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (e) Turn the power switch on (IG), and wait for at least 60 seconds.
- (f) Clear the DTCs stored in memory (see page 05-1402).
- (g) Turn the power switch off.
- (h) Turn the power switch on (IG), and wait for at least 60 seconds.
- (i) Check the DTCs (see page 05-1402).

OK:**DTC B1820 is not output.****HINT:**

Codes other than code B1820 may be output at this time, but they are not related to this check.

NG**REPLACE FRONT SEAT W/ADJUSTER FRAME ASSY LH (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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

4 CHECK FLOOR WIRE

- (a) Disconnect the floor wire connector from the seat airbag No.1 wire.

HINT:

The activation prevention mechanism of connector "B" has already been released.

- (b) Measure the resistance according to the value(s) in the table below.

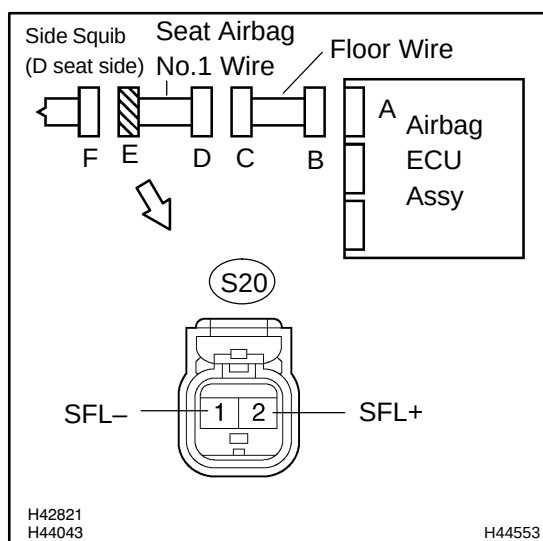
Standard:

Tester connection	Condition	Specified condition
BC1-1 (SFL+) – BC1-2 (SFL-)	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE FLOOR WIRE

OK

5 CHECK SEAT AIRBAG NO.1 WIRE

- (a) Release the activation prevention mechanism built into connector "D" (see page 05-1397).

- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
S20-2 (SFL+) – S20-1 (SFL-)	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE SEAT AIRBAG NO.1 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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1821/55	OPEN IN SIDE SQUIB (D SEAT SIDE) CIRCUIT
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CIRCUIT DESCRIPTION

The side squib (D seat side) circuit consists of the airbag ECU assy and the front seat w/ adjuster frame assy LH (side squib (D seat side)).

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

DTC B1821 is recorded when an open circuit is detected in the side squib (D seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1821	• When the airbag ECU assy receives an open signal in the side squib (D seat side) circuit for 2 seconds. • Side squib (D seat side) malfunction • Airbag ECU assy malfunction	• Floor wire • Seat airbag No.1 wire • Front seat w/ adjuster frame assy LH (Side squib (D seat side)) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1541](#).

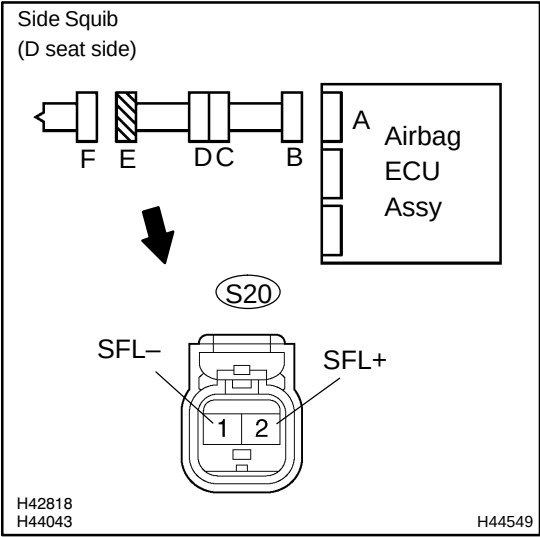
INSPECTION PROCEDURE

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 (D SEAT SIDE) CIRCUIT



- (a) Measure the resistance according to the value(s) in the table below.

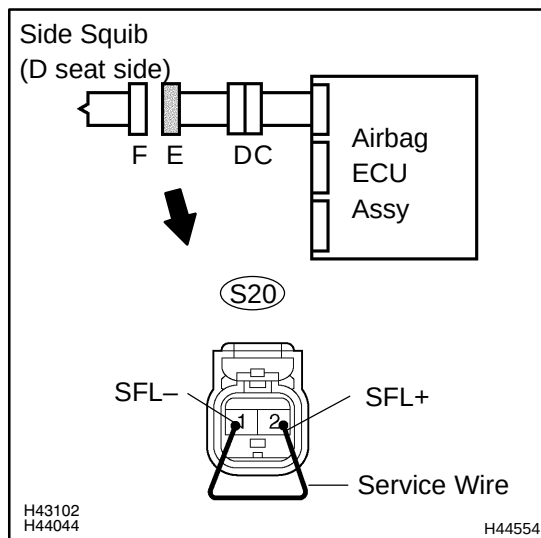
Standard:

Tester connection	Condition	Specified condition
S20-2 (SFL+) – S20-1 (SFL-)	Always	Below 1 Ω

OK

NG Go to step 4

2 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU Assy.
- (b) Using a service wire, connect S20-2 (SFL+) and S20-1 (SFL-) of connector "E".

NOTICE:

Do not forcibly insert a service wire into the terminals of the connector when connecting.

- (c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (d) Turn the power switch on (IG), and wait for at least 60 seconds.
- (e) Clear the DTCs stored in memory (see page 05-1402).
- (f) Turn the power switch off.
- (g) Turn the power switch on (IG), and wait for at least 60 seconds.
- (h) Check the DTCs (see page 05-1402).

OK:

DTC B1821 is not output.

HINT:

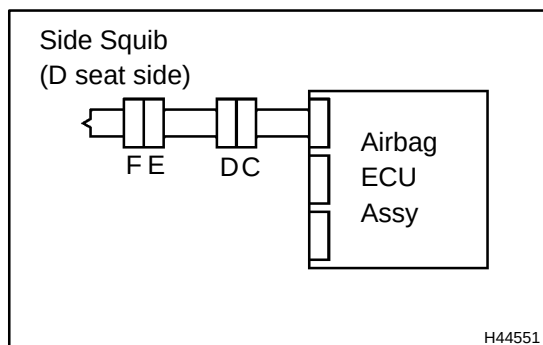
Codes other than code B1821 may be output at this time, but they are not related to this check.

NG

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

OK

3 CHECK FRONT SEAT W/ADJUSTER FRAME ASSY LH(SIDE SQUIB (D 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 LH (side squib (D 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 B1821 is not output.

HINT:

Codes other than code B1821 may be output at this time, but they are not related to this check.

NG

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

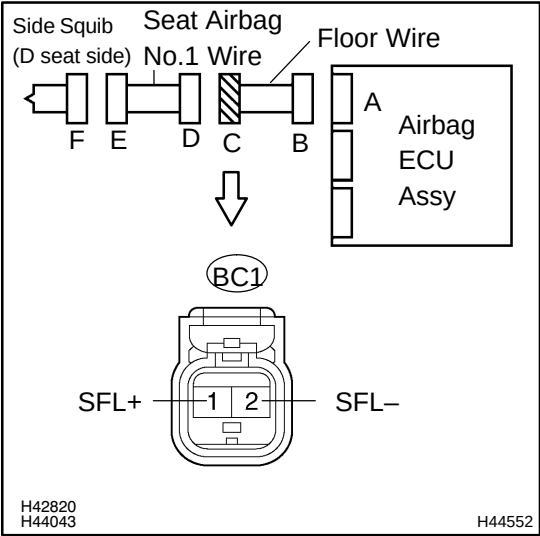
OK

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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

4 CHECK FLOOR WIRE



- (a) Disconnect the floor wire connector from the seat airbag No.1 wire.
- (b) Measure the resistance according to the value(s) in the table below.

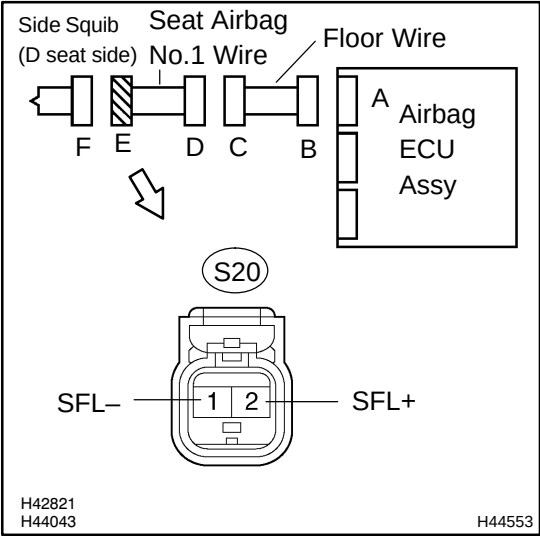
Standard:

Tester connection	Condition	Specified condition
BC1-1 (SFL+) – BC1-2 (SFL-)	Always	Below 1 Ω

NG REPAIR OR REPLACE FLOOR WIRE

OK

5 CHECK SEAT AIRBAG NO.1 WIRE



- (a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
S20-2 (SFL+) – S20-1 (SFL-)	Always	Below 1 Ω

NG REPAIR OR REPLACE SEAT AIRBAG NO.1 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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1822/55	SHORT IN SIDE SQUIB (D SEAT SIDE) CIRCUIT (TO GROUND)
------------	-----------------	--

CIRCUIT DESCRIPTION

The side squib (D seat side) circuit consists of the airbag ECU assy and the front seat w/ adjuster frame assy LH (side squib (D seat side)).

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

DTC B1822 is recorded when a short to ground circuit is detected in the side squib (D seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1822	• When the airbag ECU assy receives a short to ground signal in the side squib (D seat side) circuit for 0.5 seconds. • Side squib (D seat side) malfunction • Airbag ECU assy malfunction	• Floor wire • Seat airbag No.1 wire • Front seat w/ adjuster frame assy LH (Side squib (D seat side)) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1541](#).

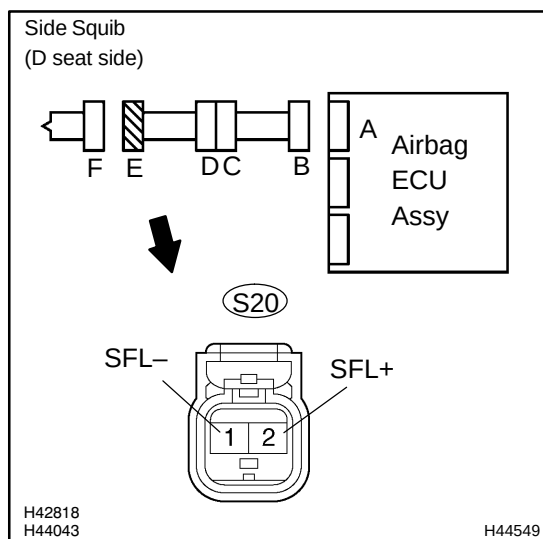
INSPECTION PROCEDURE

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 (D SEAT SIDE) CIRCUIT



- (a) Measure the resistance according to the value(s) in the table below.

Standard:

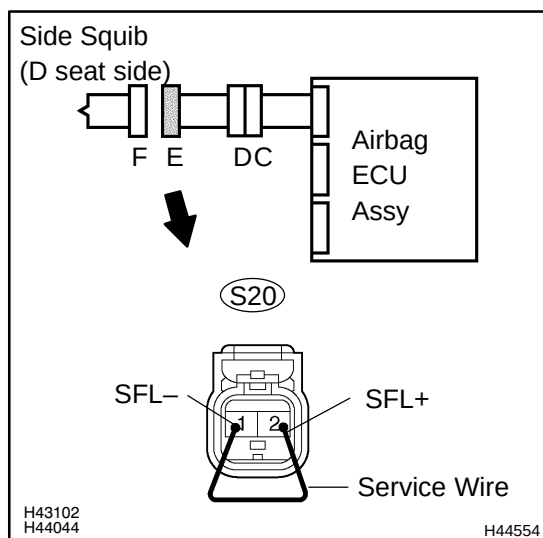
Tester connection	Condition	Specified condition
S20-2 (SFL+) – Body ground	Always	1 MΩ or Higher
S20-1 (SFL-) – Body ground	Always	1 MΩ or Higher

NG

Go to step 4

OK

2 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU Assy.
- (b) Using a service wire, connect S20-2 (SFL+) and S20-1 (SFL-) of connector "E".

NOTICE:

Do not forcibly insert a service wire into the terminals of the connector when connecting.

- (c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (d) Turn the power switch on (IG), and wait for at least 60 seconds.
- (e) Clear the DTCs stored in memory (see page 05-1402).
- (f) Turn the power switch off.
- (g) Turn the power switch on (IG), and wait for at least 60 seconds.
- (h) Check the DTCs (see page 05-1402).

OK:

DTC B1822 is not output.

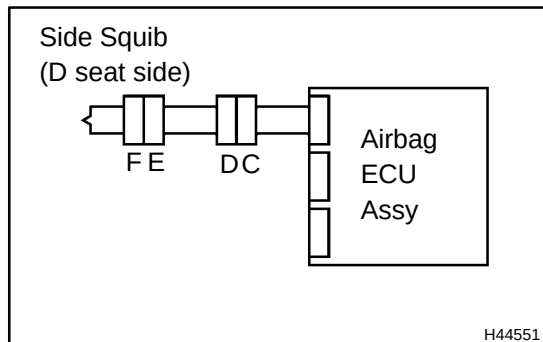
HINT:

Codes other than code B1822 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 LH(SIDE SQUIB (D SEAT SIDE))**

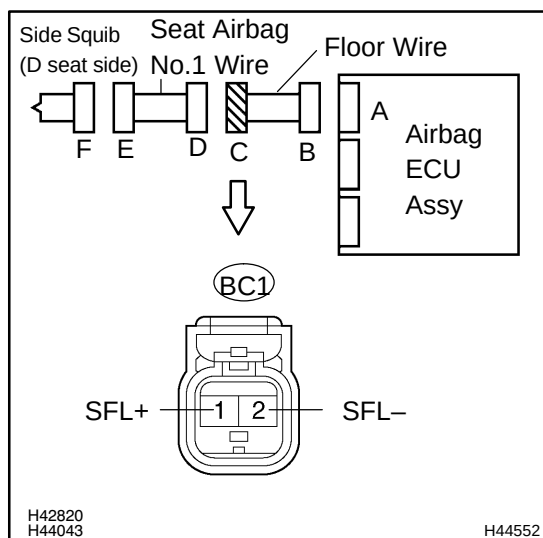
- (a) Turn the power switch off.
- (b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the service wire from connector "E".
- (d) Connect the connector to the front seat w/ adjuster frame assy LH (side squib (D seat side)).
- (e) Connect 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 B1822 is not output.****HINT:**

Codes other than code B1822 may be output at this time, but they are not related to this check.

NG**REPLACE FRONT SEAT W/ADJUSTER FRAME ASSY LH (SEE PAGE 72-2)****OK****USE SIMULATION METHOD TO CHECK (SEE PAGE 05-1397)****HINT:**

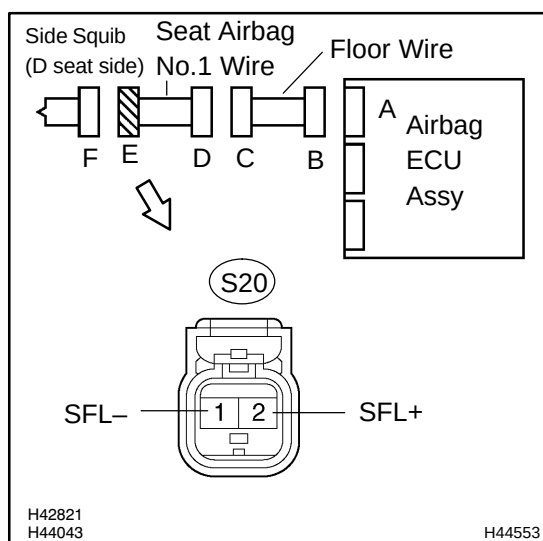
- Perform the simulation method by selecting the check mode with the hand-held tester (see page 05-1405).
- After selecting the check mode, perform the simulation method by wiggling each connector of the air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

4 CHECK FLOOR WIRE

- (a) Disconnect the floor wire connector from the seat airbag No.1 wire.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
BC1-1 (SFL+) – Body ground	Always	1 MΩ or Higher
BC1-2 (SFL-) – Body ground	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE FLOOR WIRE****OK****5 CHECK SEAT AIRBAG NO.1 WIRE**

- (a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
S20-2 (SFL+) – Body ground	Always	1 MΩ or Higher
S20-1 (SFL-) – Body ground	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE SEAT AIRBAG NO.1 WIRE****OK****USE SIMULATION METHOD TO CHECK****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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1823/55	SHORT IN SIDE SQUIB (D SEAT SIDE) CIRCUIT (TO B+)
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CIRCUIT DESCRIPTION

The side squib (D seat side) circuit consists of the airbag ECU assy and the front seat w/ adjuster frame assy LH (side squib (D seat side)).

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

DTC B1823 is recorded when a short to B+ circuit is detected in the side squib (D seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1823	• When the airbag ECU assy receives a B+ short signal in the side squib (D seat side) circuit for 0.5 seconds. • Side squib (D seat side) malfunction • Airbag ECU assy malfunction	• Floor wire • Seat airbag No.1 wire • Front seat w/ adjuster frame assy LH (Side squib (D seat side)) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1541](#).

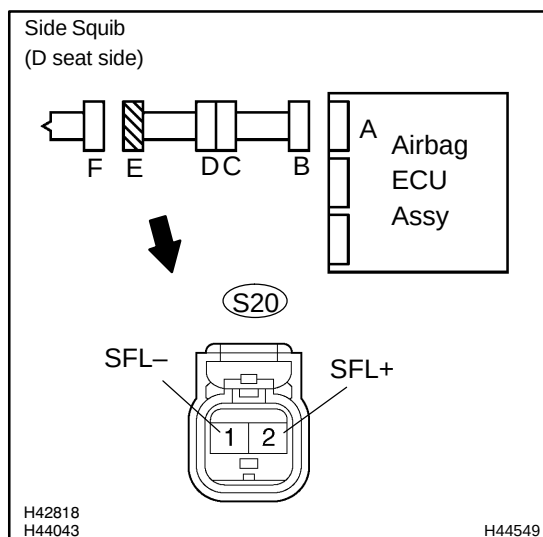
INSPECTION PROCEDURE

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 (D 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:

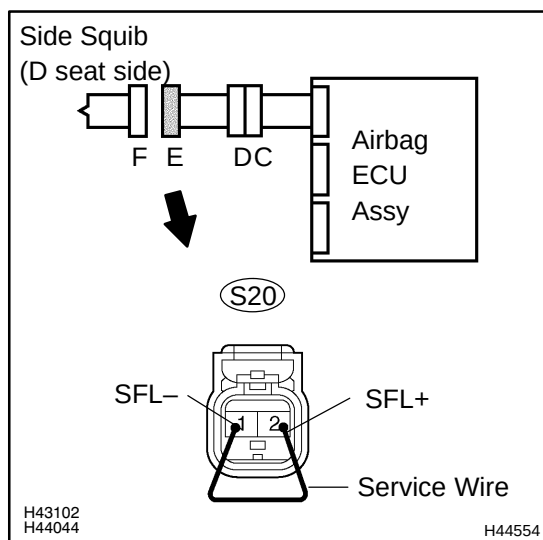
Tester connection	Condition	Specified condition
S20–2 (SFL+) – Body ground	Power switch is on (IG)	Below 1 V
S20–1 (SFL–) – Body ground	Power switch is on (IG)	Below 1 V

NG

Go to step 4

OK

2 CHECK AIR BAG ECU ASSY



- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Connect the connectors to the airbag ECU Assy.
- Using a service wire, connect S20–2 (SFL+) and S20–1 (SFL–) of connector "E".

NOTICE:

Do not forcibly insert a service wire into the terminals of the connector when connecting.

- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in memory (see page 05-1402).
- Turn the power switch off.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (see page 05-1402).

OK:

DTC B1823 is not output.

HINT:

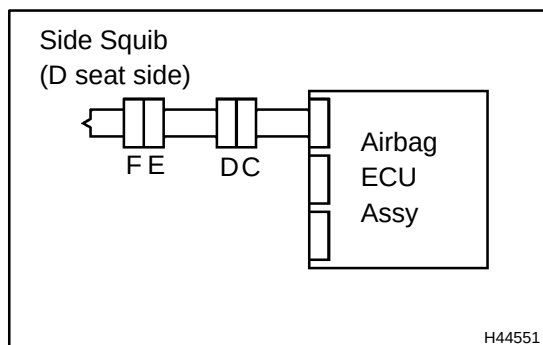
Codes other than code B1823 may be output at this time, but they are not related to this check.

NG

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

OK

3 CHECK FRONT SEAT W/ADJUSTER FRAME ASSY LH(SIDE SQUIB (D 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 LH (side squib (D 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 B1823 is not output.

HINT:

Codes other than code B1823 may be output at this time, but they are not related to this check.

NG

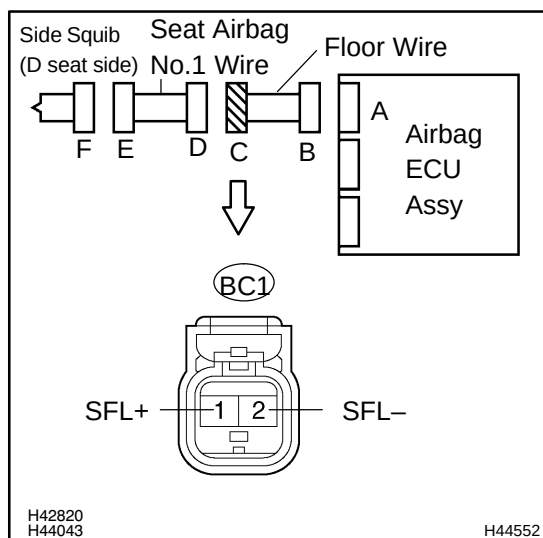
REPLACE FRONT SEAT W/ADJUSTER FRAME ASSY LH (SEE PAGE 72-2)

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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

4 CHECK FLOOR WIRE

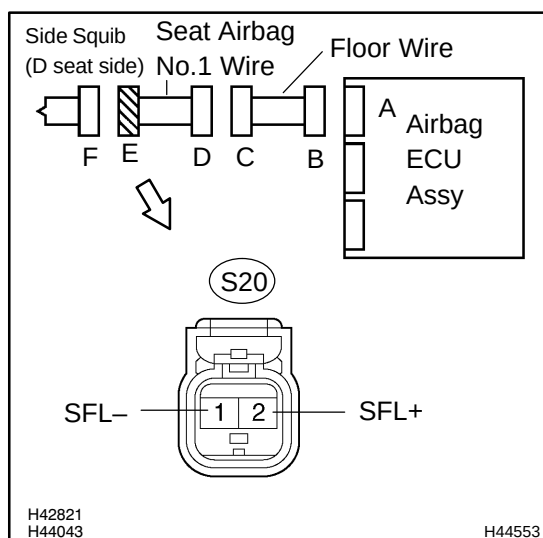
- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the floor wire connector from the seat airbag No.1 wire.
- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG).
- Measure the voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
BC1–1 (SFL+) – Body ground	Power switch is on (IG)	Below 1 V
BC1–2 (SFL–) – Body ground	Power switch is on (IG)	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

5 CHECK SEAT AIRBAG NO.1 WIRE

- 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
S20–2 (SFL+) – Body ground	Power switch is on (IG)	Below 1 V
S20–1 (SFL–) – Body ground	Power switch is on (IG)	Below 1 V

NG → **REPAIR OR REPLACE SEAT AIRBAG NO.1 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).

DTC	B1825/56	SHORT IN SIDE SQUIB (P SEAT SIDE) CIRCUIT
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CIRCUIT DESCRIPTION

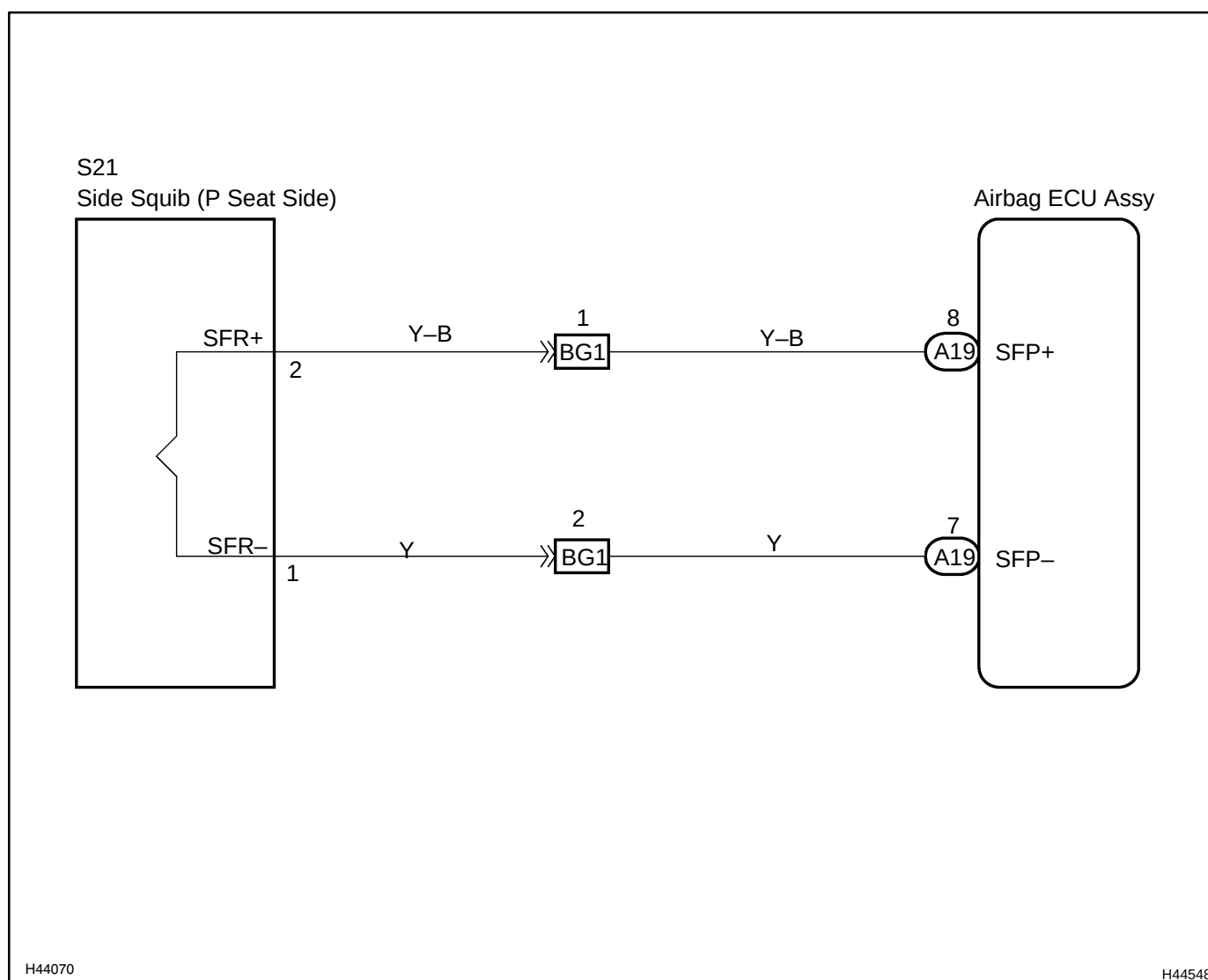
The side squib (P seat side) circuit consists of the airbag ECU Assy and the front seat w/ adjuster frame Assy RH (side squib (P seat side)).

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

DTC B1825 is recorded when a short circuit is detected in the side squib (P seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1825	- When the Airbag ECU Assy receives a line short signal 5 times in the side squib (P seat side) circuit during primary check. - Side squib (P seat side) malfunction - Airbag ECU Assy malfunction	- Floor wire No.2 - Seat airbag No.2 wire - Front seat w/ adjuster frame Assy RH (Side squib (P seat side)) - Airbag ECU Assy

WIRING DIAGRAM



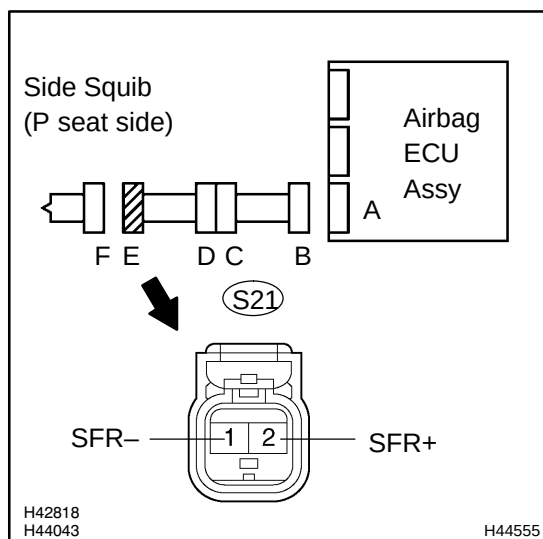
INSPECTION PROCEDURE

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) Release the activation prevention mechanism built into connector "B" (see page 05-1397).
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

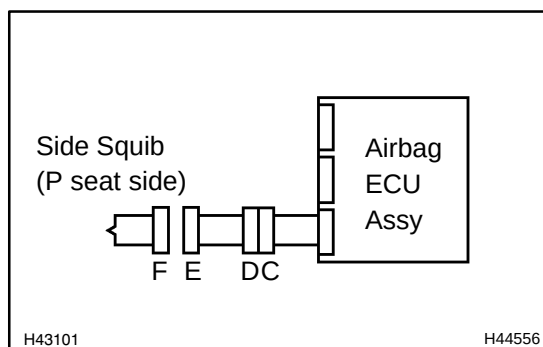
Tester connection	Condition	Specified condition
S21-2 (SFR+) – S21-1 (SFR–)	Always	1 MΩ or Higher

NG

Go to step 4

OK

2 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU Assy.
- (b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the power switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in memory (see page 05-1402).
- (e) Turn the power switch off.
- (f) Turn the power switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (see page 05-1402).

OK:

DTC B1825 is not output.

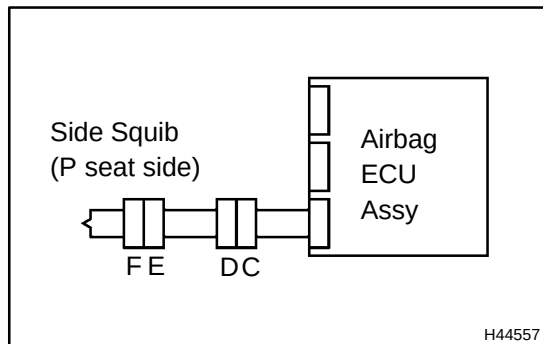
HINT:

Codes other than code B1825 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))**

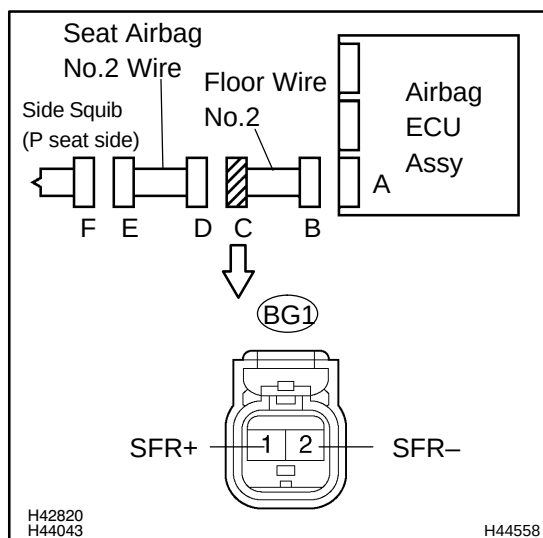
- (a) Turn the power switch off.
- (b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Connect the connector to the front seat w/ adjuster frame assy RH (side squib (P seat side)).
- (d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (e) Turn the power switch on (IG), and wait for at least 60 seconds.
- (f) Clear the DTCs stored in memory (see page 05-1402).
- (g) Turn the power switch off.
- (h) Turn the power switch on (IG), and wait for at least 60 seconds.
- (i) Check the DTCs (see page 05-1402).

OK:**DTC B1825 is not output.****HINT:**

Codes other than code B1825 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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

4 CHECK FLOOR WIRE NO.2

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

HINT:

The activation prevention mechanism of connector "B" has already been released.

- (b) Measure the resistance according to the value(s) in the table below.

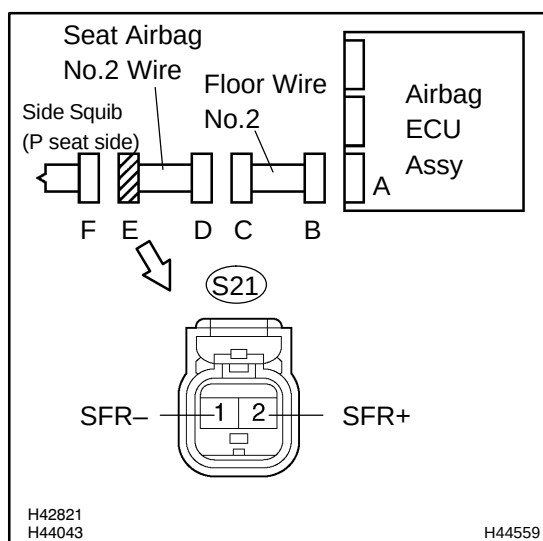
Standard:

Tester connection	Condition	Specified condition
BG1-1 (SFR+) – BG1-2 (SFR-)	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE FLOOR WIRE NO.2

OK

5 CHECK SEAT AIRBAG NO.2 WIRE

- (a) Release the activation prevention mechanism built into connector "D" (see page 05-1397).

- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
S21-2 (SFR+) – S21-1 (SFR-)	Always	1 MΩ or Higher

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).

DTC	B1826/56	OPEN IN SIDE SQUIB (P SEAT SIDE) CIRCUIT
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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)).

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

DTC B1826 is recorded when an open circuit is detected in the side squib (P seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1826	• When the airbag ECU Assy receives an open signal in the side squib (P seat side) circuit for 2 seconds. • Side squib (P seat side) malfunction • Airbag ECU Assy malfunction	• Floor wire No.2 • Seat airbag No.2 wire • Front seat w/ adjuster frame Assy RH (Side squib (P seat side)) • Airbag ECU Assy

WIRING DIAGRAM

See page [05-1561](#).

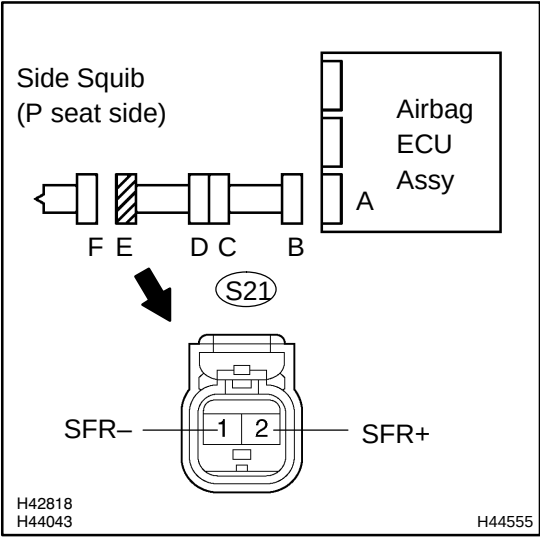
INSPECTION PROCEDURE

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) Measure the resistance according to the value(s) in the table below.

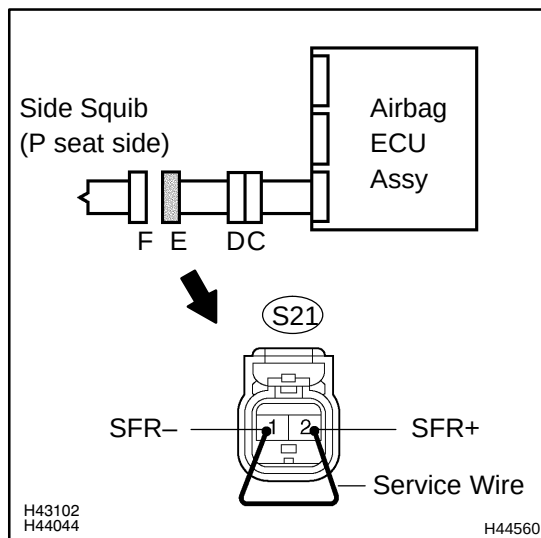
Standard:

Tester connection	Condition	Specified condition
S21-2 (SFR+) – S21-1 (SFR-)	Always	Below 1 Ω

OK

NG Go to step 4

2 CHECK AIR BAG ECU ASSY



- Connect the connectors to the airbag ECU Assy.
- 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.

- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in memory (see page 05-1402).
- Turn the power switch off.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (see page 05-1402).

OK:

DTC B1826 is not output.

HINT:

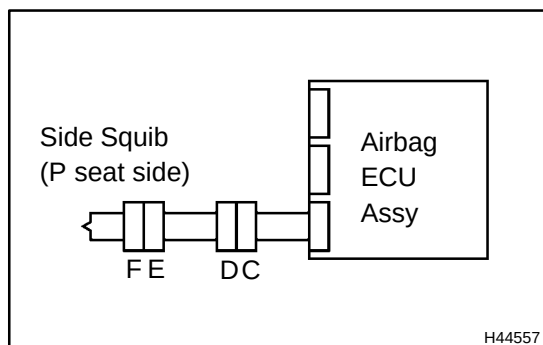
Codes other than code B1826 may be output at this time, but they are not related to this check.

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 B1826 is not output.

HINT:

Codes other than code B1826 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)

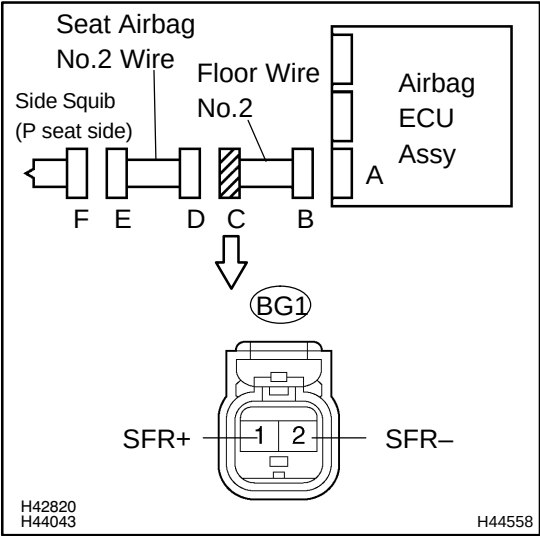
OK

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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

4 CHECK FLOOR WIRE NO.2



- (a) Disconnect the floor wire No.2 connector from the seat airbag No.2 wire.
- (b) Measure the resistance according to the value(s) in the table below.

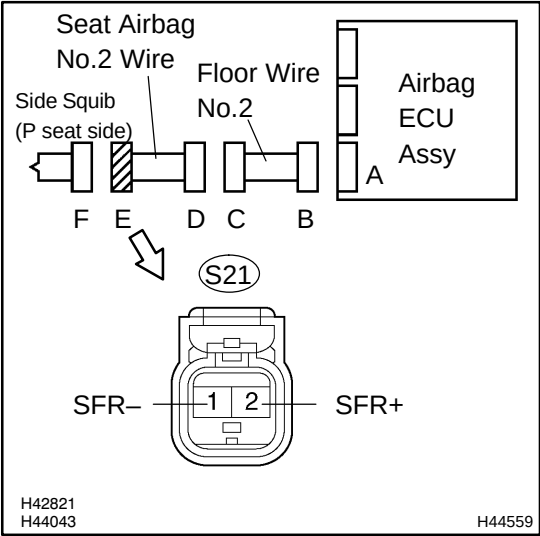
Standard:

Tester connection	Condition	Specified condition
BG1-1 (SFR+) – BG1-2 (SFR-)	Always	Below 1 Ω

NG REPAIR OR REPLACE FLOOR WIRE NO.2

OK

5 CHECK SEAT AIRBAG NO.2 WIRE



- (a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
S21-2 (SFR+) – S21-1 (SFR-)	Always	Below 1 Ω

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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1827/56	SHORT IN SIDE SQUIB (P SEAT SIDE) CIRCUIT (TO GROUND)
------------	-----------------	--

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)).

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

DTC B1827 is recorded when a short to ground is detected in the side squib (P seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1827	• When the airbag ECU assy receives a short to ground signal in the side squib (P seat side) circuit for 0.5 seconds. • Side squib (P seat side) malfunction • Airbag ECU assy malfunction	• Floor wire No.2 • Seat airbag No.2 wire • Front seat w/ adjuster frame assy RH (Side squib (P seat side)) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1561](#).

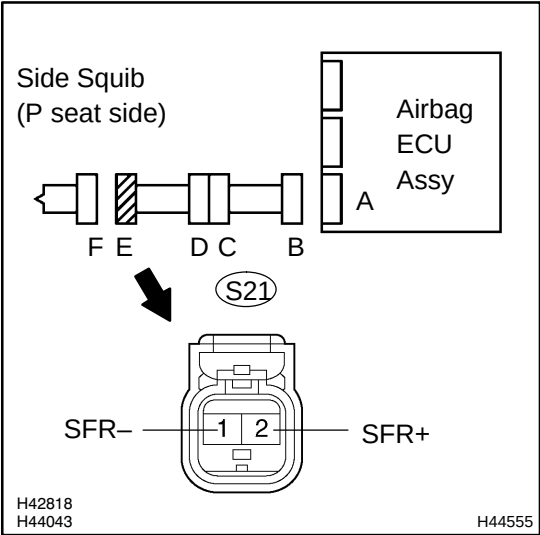
INSPECTION PROCEDURE

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) Measure the resistance according to the value(s) in the table below.

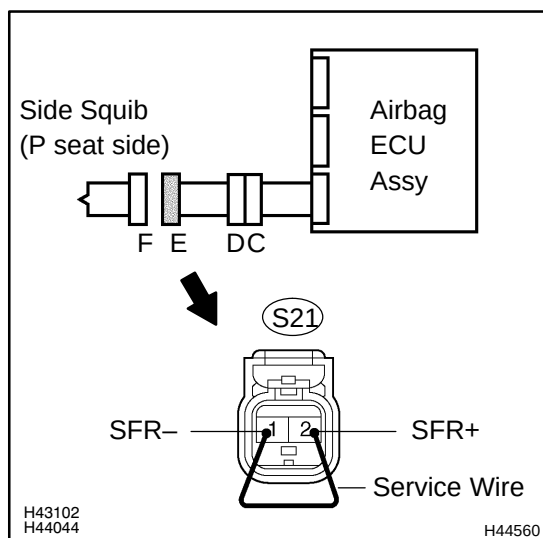
Standard:

Tester connection	Condition	Specified condition
S21-2 (SFR+) – Body ground	Always	1 MΩ or Higher
S21-1 (SFR-) – Body ground	Always	1 MΩ or Higher

OK

NG Go to step 4

2 CHECK AIR BAG ECU ASSY



- Connect the connectors to the airbag ECU Assy.
- 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.

- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in memory (see page 05-1402).
- Turn the power switch off.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (see page 05-1402).

OK:

DTC B1827 is not output.

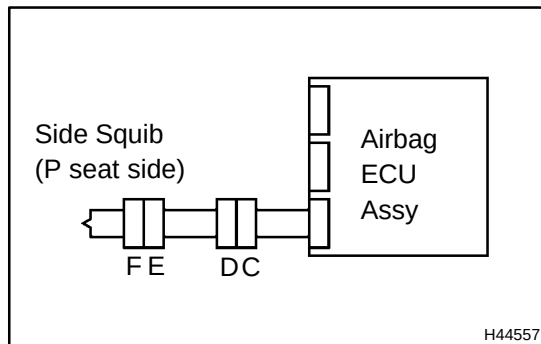
HINT:

Codes other than code B1827 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))**

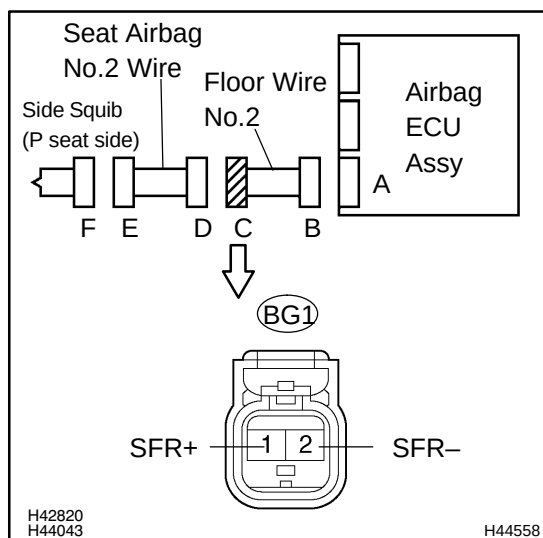
- (a) Turn the power switch off.
- (b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the service wire from connector "E".
- (d) Connect the connector to the front seat w/ adjuster frame assy RH (side squib (P seat side)).
- (e) Connect 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 B1827 is not output.****HINT:**

Codes other than code B1827 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:**

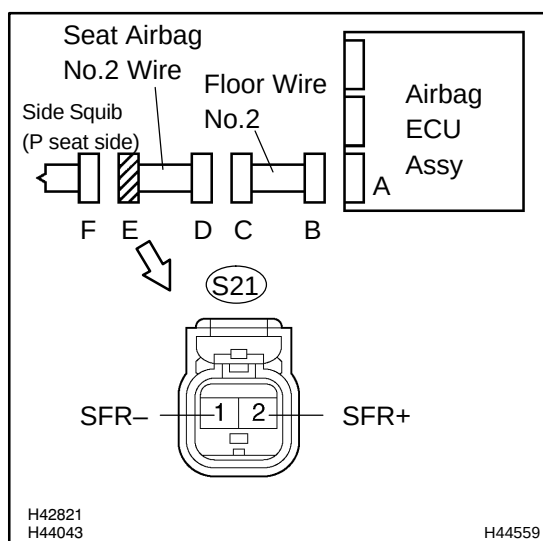
- Perform the simulation method by selecting the check mode with the hand-held tester (see page 05-1405).
- After selecting the check mode, perform the simulation method by wiggling each connector of the air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

4 CHECK FLOOR WIRE NO.2

- (a) Disconnect the floor wire No.2 connector from the seat airbag No.2 wire.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
BG1-1 (SFR+) – Body ground	Always	1 MΩ or Higher
BG1-2 (SFR-) – Body ground	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE FLOOR WIRE NO.2****OK****5 CHECK SEAT AIRBAG NO.2 WIRE**

- (a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
S21-2 (SFR+) – Body ground	Always	1 MΩ or Higher
S21-1 (SFR-) – Body ground	Always	1 MΩ or Higher

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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1828/56	SHORT IN SIDE SQUIB (P SEAT SIDE) CIRCUIT (TO 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	• When the airbag ECU assy receives a B+ short signal in the side squib (P seat side) circuit for 0.5 seconds. • Side squib (P seat side) malfunction • Airbag ECU assy malfunction	• Floor wire No.2 • Seat airbag No.2 wire • Front seat w/ adjuster frame assy RH (Side squib (P seat side)) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1561](#).

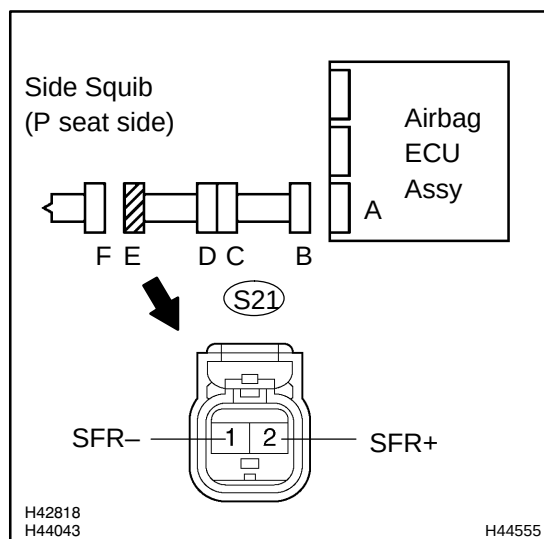
INSPECTION PROCEDURE

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:

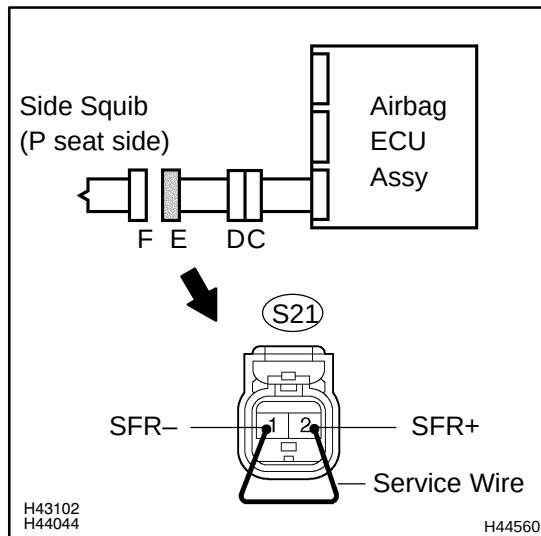
Tester connection	Condition	Specified condition
S21-2 (SFR+) – Body ground	Power switch is on (IG)	Below 1 V
S21-1 (SFR-) – Body ground	Power switch is on (IG)	Below 1 V

NG

Go to step 4

OK

2 CHECK AIR BAG ECU ASSY



- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least for 90 seconds.
- Connect the connectors to the airbag ECU Assy.
- 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.

- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in memory (see page 05-1402).
- Turn the power switch off.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (see page 05-1402).

OK:

DTC B1828 is not output.

HINT:

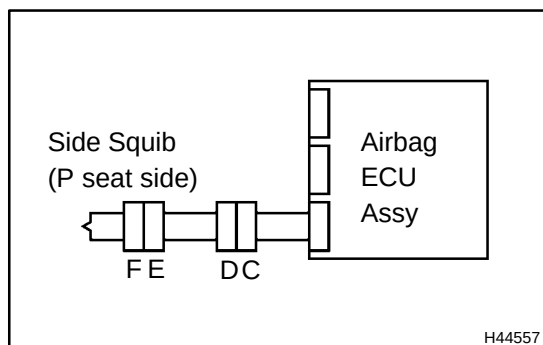
Codes other than code B1828 may be output at this time, but they are not related to this check.

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))



- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the service wire from connector "E".
- Connect the connector to the front seat w/ adjuster frame assy RH (side squib (P seat side)).
- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in memory (see page 05-1402).
- Turn the power switch off.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- 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

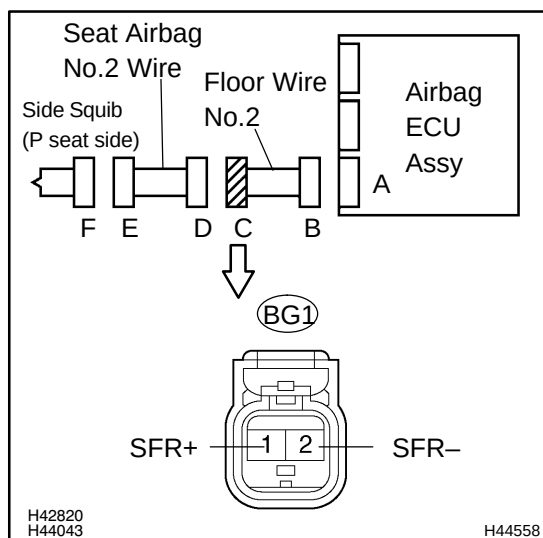
REPLACE FRONT SEAT W/ADJUSTER FRAME ASSY RH (SEE PAGE 72-2)

OK

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

HINT:

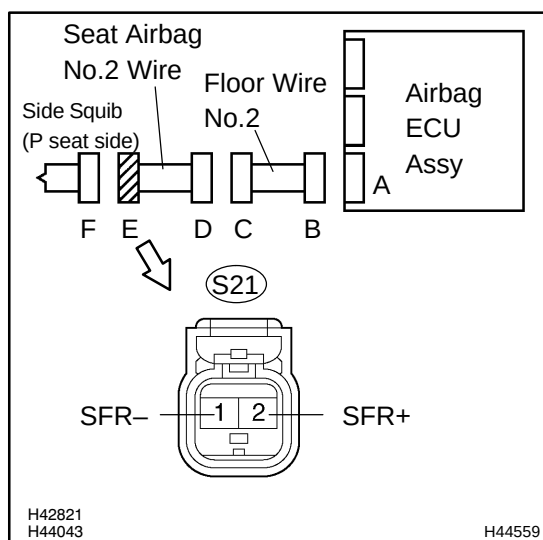
- Perform the simulation method by selecting the check mode with the hand-held tester (see page 05-1405).
- After selecting the check mode, perform the simulation method by wiggling each connector of the air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

4 CHECK FLOOR WIRE NO.2

- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the floor wire connector from the seat airbag No.2 wire.
- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG).
- 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**

- 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).

DTC	B1830/57	SHORT IN CURTAIN SHIELD AIRBAG (D SEAT SIDE) SQUIB CIRCUIT
------------	-----------------	---

CIRCUIT DESCRIPTION

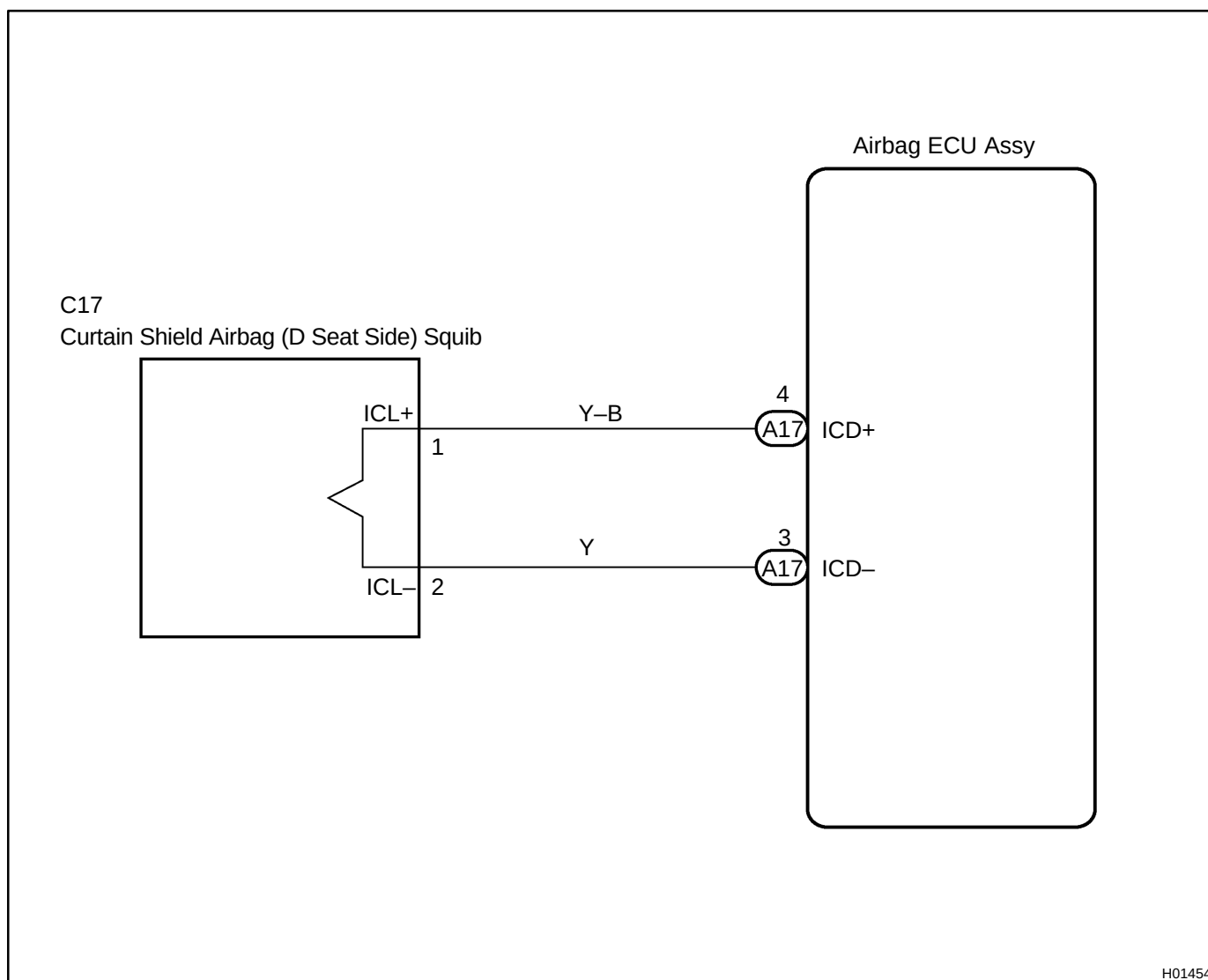
The curtain shield airbag (D seat side) squib circuit consists of the airbag ECU assy and the curtain shield airbag assy LH.

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

DTC B1830 is recorded when a short circuit is detected in the curtain shield airbag (D seat side) squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1830	- When the airbag ECU assy receives a line short signal 5 times in the curtain shield airbag (D seat side) squib circuit during primary check. - Curtain shield airbag (D seat side) squib malfunction - Airbag ECU assy malfunction	- Floor wire - Curtain shield airbag assy LH (Curtain shield airbag (D seat side) squib) - Airbag ECU assy

WIRING DIAGRAM



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 CONNECTOR

- (a) Check that the floor wire connector (on the curtain shield airbag Assy LH side) is not damaged.

OK:

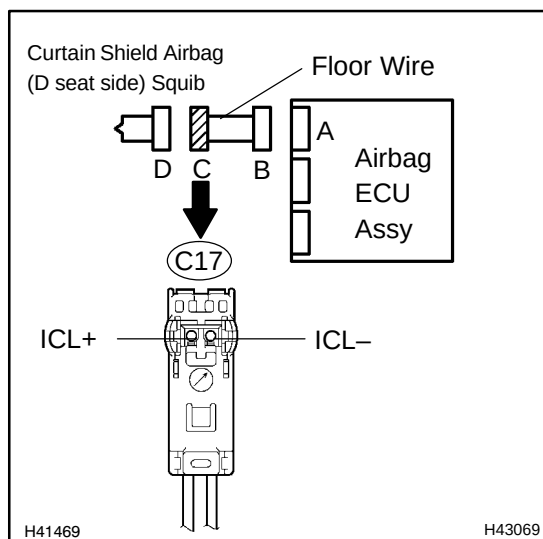
The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG

REPAIR OR REPLACE FLOOR WIRE

OK

2 CHECK FLOOR WIRE(CURTAIN SHIELD AIRBAG (D SEAT SIDE) SQUIB CIRCUIT)



- (a) Release the activation prevention mechanism built into connector "B" (see page 05-1397).

- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
C17-1 (ICL+) – C17-2 (ICL-)	Always	1 MΩ or Higher

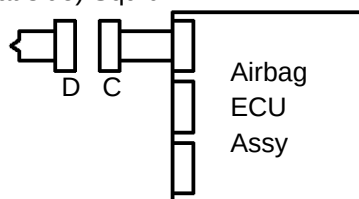
NG

REPAIR OR REPLACE FLOOR WIRE

OK

3 CHECK AIR BAG ECU ASSY

Curtain Shield Airbag
(D seat side) Squib



H01017

H44394

- (a) Connect the connectors to the airbag ECU Assy.
- (b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the power switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in memory (see page 05-1402).
- (e) Turn the power switch off.
- (f) Turn the power switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (see page 05-1402).

OK:

DTC B1830 is not output.

HINT:

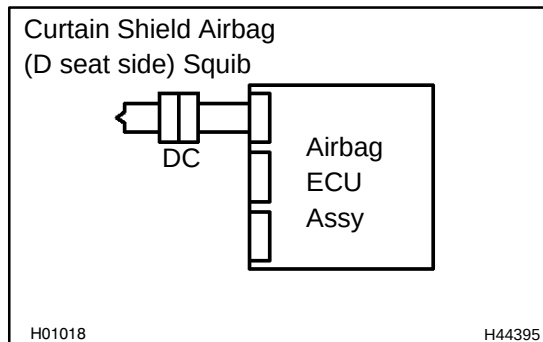
Codes other than code B1830 may be output at this time, but they are not related to this check.

NG

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

OK

4 CHECK CURTAIN SHIELD AIR BAG ASSY LH(CURTAIN SHIELD AIRBAG (D SEAT SIDE) SQUIB)



- (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 connector to the curtain shield airbag assy LH.
- (d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (e) Turn the power switch on (IG), and wait for at least 60 seconds.
- (f) Clear the DTCs stored in memory (see page 05-1402).
- (g) Turn the power switch off.
- (h) Turn the power switch on (IG), and wait for at least 60 seconds.
- (i) Check the DTCs (see page 05-1402).

OK:

DTC B1830 is not output.

HINT:

Codes other than code B1830 may be output at this time, but they are not related to this check.

NG

**REPLACE CURTAIN SHIELD AIR BAG ASSY LH
(SEE PAGE 60-41)**

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).

DTC	B1831/57	OPEN IN CURTAIN SHIELD AIRBAG (D SEAT SIDE) SQUIB CIRCUIT
------------	-----------------	--

CIRCUIT DESCRIPTION

The curtain shield airbag (D seat side) squib circuit consists of the airbag ECU assy and the curtain shield airbag assy LH.

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

DTC B1831 is recorded when an open circuit is detected in the curtain shield airbag (D seat side) squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1831	• When the airbag ECU assy receives an open signal in the curtain shield airbag (D seat side) squib circuit for 2 seconds. • Curtain shield airbag (D seat side) squib malfunction • Airbag ECU assy malfunction	• Floor wire • Curtain shield airbag assy LH (Curtain shield airbag (D seat side) squib) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1581](#).

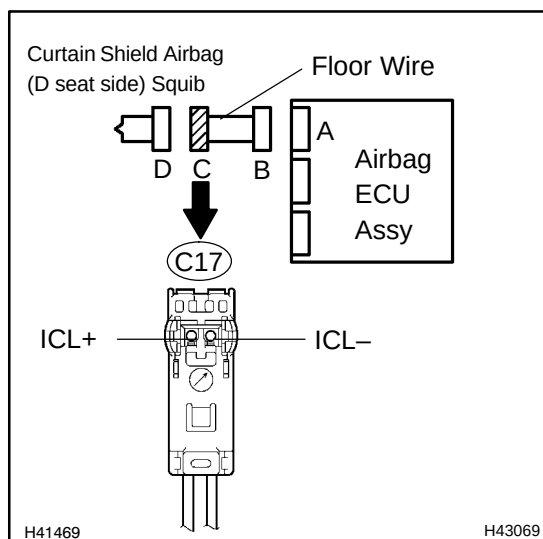
INSPECTION PROCEDURE

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 FLOOR WIRE(CURTAIN SHIELD AIRBAG (D SEAT SIDE) SQUIB CIRCUIT)



- (a) Measure the resistance according to the value(s) in the table below.

Standard:

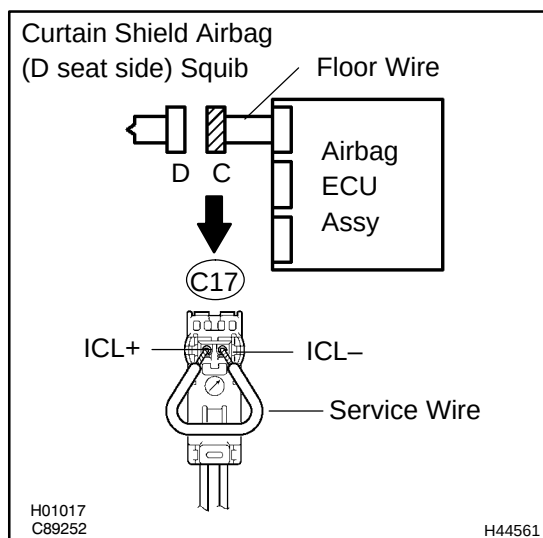
Tester connection	Condition	Specified condition
C17-1 (ICL+) – C17-2 (ICL–)	Always	Below 1 Ω

NG

REPAIR OR REPLACE FLOOR WIRE

OK

2 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU assy.
- (b) Using a service wire, connect C17-1 (ICL+) and C17-2 (ICL-) of connector "C".

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.**
- (c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
 - (d) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (e) Clear the DTCs stored in memory (see page 05-1402).
 - (f) Turn the power switch off.
 - (g) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (h) Check the DTCs (see page 05-1402).

OK:

DTC B1831 is not output.

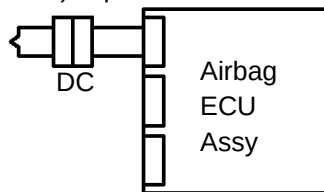
HINT:

Codes other than code B1831 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 CURTAIN SHIELD AIR BAG ASSY LH(CURTAIN SHIELD AIRBAG (D SEAT SIDE) SQUIB)**Curtain Shield Airbag
(D seat side) Squib

H01018

H44395

- (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 "C".
- (d) Connect the connector to the curtain shield airbag assy LH.
- (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 B1831 is not output.****HINT:**

Codes other than code B1831 may be output at this time, but they are not related to this check.

NG**REPLACE CURTAIN SHIELD AIR BAG ASSY LH
(SEE PAGE 60-41)****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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1832/57	SHORT IN CURTAIN SHIELD AIRBAG (D SEAT SIDE) SQUIB CIRCUIT (TO GROUND)
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CIRCUIT DESCRIPTION

The curtain shield airbag (D seat side) squib circuit consists of the airbag ECU assy and the curtain shield airbag assy LH.

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

DTC B1832 is recorded when a short to ground is detected in the curtain shield airbag (D seat side) squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1832	• When the airbag ECU assy receives a short to ground signal in the curtain shield airbag (D seat side) squib circuit for 0.5 seconds. • Curtain shield airbag (D seat side) squib malfunction • Airbag ECU assy malfunction	• Floor wire • Curtain shield airbag assy LH (Curtain shield airbag (D seat side) squib) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1581](#).

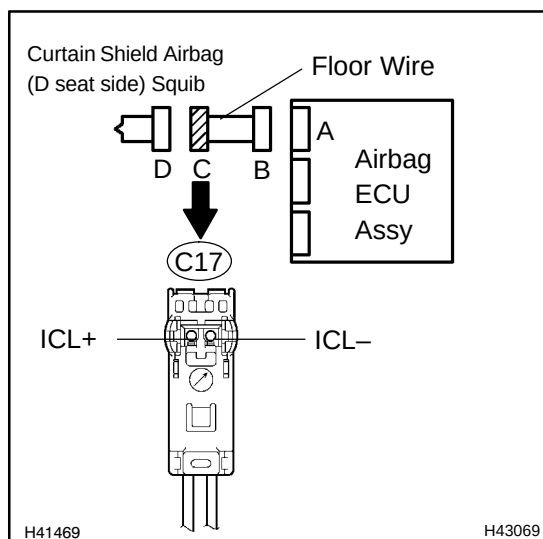
INSPECTION PROCEDURE

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 FLOOR WIRE(CURTAIN SHIELD AIRBAG (D SEAT SIDE) SQUIB CIRCUIT)



- (a) Measure the resistance according to the value(s) in the table below.

Standard:

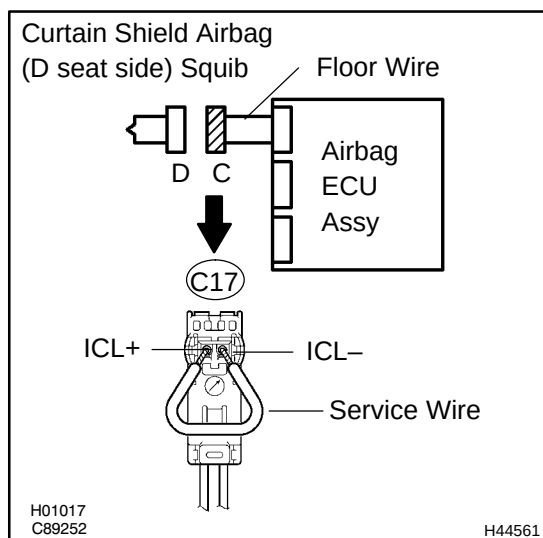
Tester connection	Condition	Specified condition
C17-1 (ICL+) – Body ground	Always	1 MΩ or Higher
C17-2 (ICL-) – Body ground	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE FLOOR WIRE

OK

2 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU assy.
- (b) Using a service wire, connect C17-1 (ICL+) and C17-2 (ICL-) of connector "C".

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.**
- (c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
 - (d) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (e) Clear the DTCs stored in memory (see page 05-1402).
 - (f) Turn the power switch off.
 - (g) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (h) Check the DTCs (see page 05-1402).

OK:

DTC B1832 is not output.

HINT:

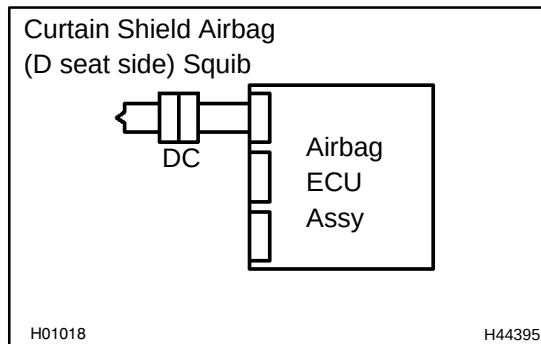
Codes other than code B1832 may be output at this time, but they are not related to this check.

NG

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

OK

3 CHECK CURTAIN SHIELD AIR BAG ASSY LH(CURTAIN SHIELD AIRBAG (D SEAT SIDE) 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 "C".
- (d) Connect the connector to the curtain shield airbag assy LH.
- (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 B1832 is not output.

HINT:

Codes other than code B1832 may be output at this time, but they are not related to this check.

NG

**REPLACE CURTAIN SHIELD AIR BAG ASSY LH
(SEE PAGE 60-41)**

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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1833/57	SHORT IN CURTAIN SHIELD AIRBAG (D SEAT SIDE) SQUIB CIRCUIT (TO B+)
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CIRCUIT DESCRIPTION

The curtain shield airbag (D seat side) squib circuit consists of the airbag ECU assy and the curtain shield airbag assy LH.

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

DTC B1833 is recorded when a short to B+ is detected in the curtain shield airbag (D seat side) squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1833	• When the Airbag ECU assy receives a B+ short signal in the curtain shield airbag (D seat side) squib circuit for 0.5 seconds. • Curtain shield airbag (D seat side) squib malfunction • Airbag ECU assy malfunction	• Floor wire • Curtain shield airbag assy LH (Curtain shield airbag (D seat side) squib) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1581](#).

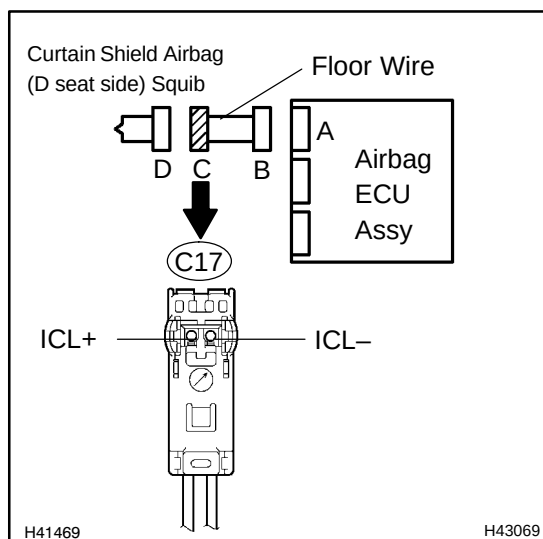
INSPECTION PROCEDURE

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 FLOOR WIRE(CURTAIN SHIELD AIRBAG (D SEAT SIDE) SQUIB 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:

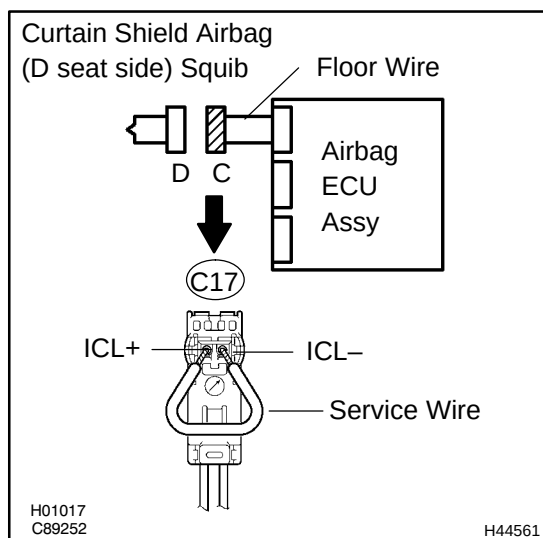
Tester connection	Condition	Specified condition
C17-1 (ICL+) – Body ground	Power switch is on (IG)	Below 1 V
C17-2 (ICL-) – Body ground	Power switch is on (IG)	Below 1 V

NG

REPAIR OR REPLACE FLOOR WIRE

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 connector to the airbag ECU assy.
- (d) Using a service wire, connect C17–1 (ICL+) and C17–2 (ICL–) of connector "C".

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 B1833 is not output.

HINT:

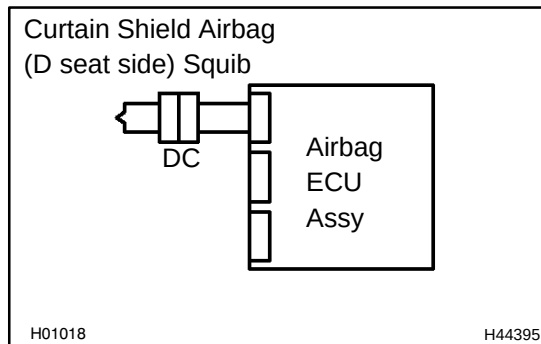
Codes other than code B1833 may be output at this time, but they are not related to this check.

NG

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

OK

3 CHECK CURTAIN SHIELD AIR BAG ASSY LH(CURTAIN SHIELD AIRBAG (D SEAT SIDE) 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 "C".
- (d) Connect the connector to the curtain shield airbag assy LH.
- (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 B1833 is not output.

HINT:

Codes other than code B1833 may be output at this time, but they are not related to this check.

NG

**REPLACE CURTAIN SHIELD AIR BAG ASSY LH
(SEE PAGE 60-41)**

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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1835/58	SHORT IN CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB CIRCUIT
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CIRCUIT DESCRIPTION

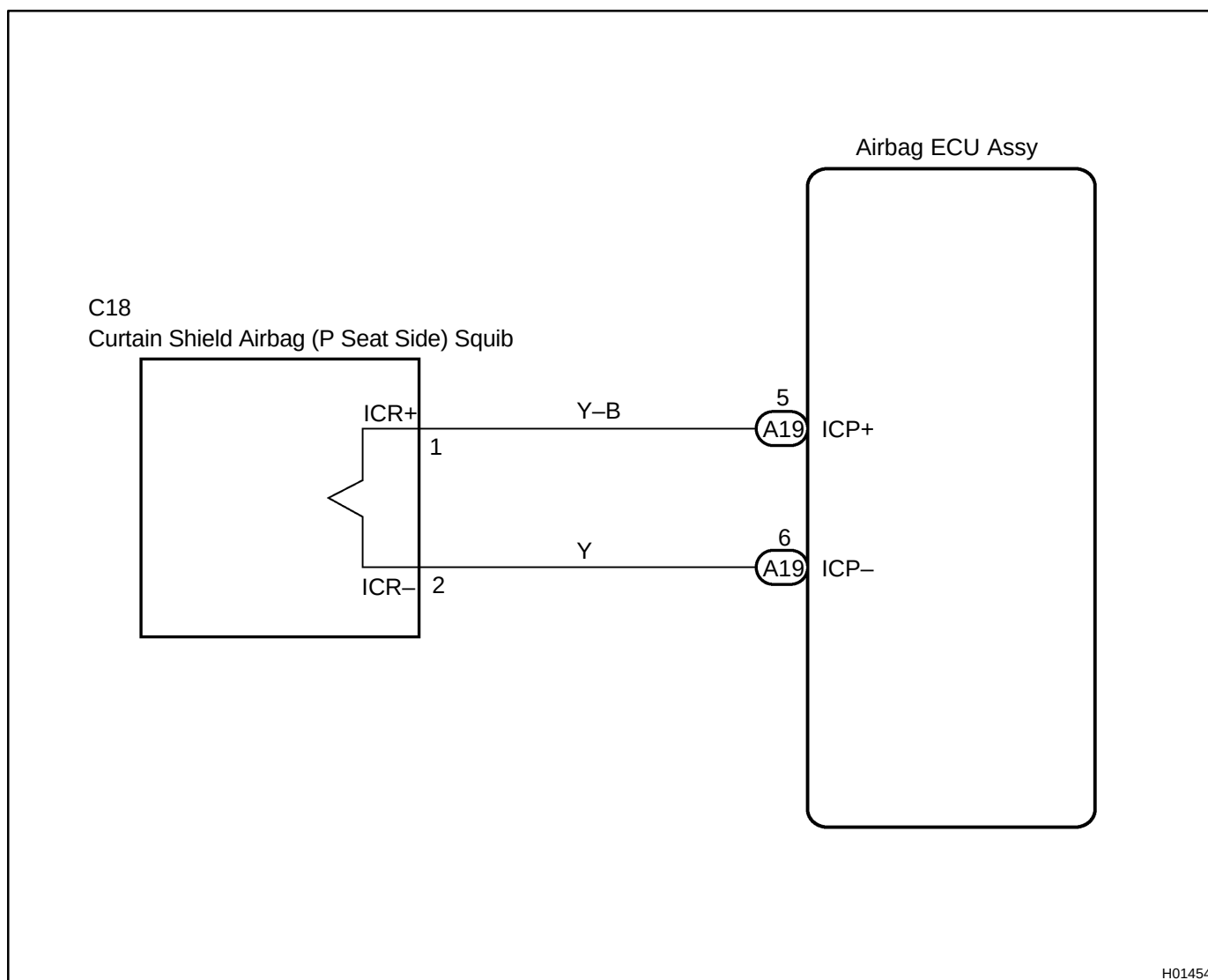
The curtain shield airbag (P seat side) squib circuit consists of the airbag ECU Assy and the curtain shield airbag Assy RH.

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

DTC B1835 is recorded when a short circuit is detected in the curtain shield airbag (P seat side) squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1835	- When the airbag ECU Assy receives a line short signal 5 times in the curtain shield airbag (P seat side) squib circuit during primary check. - Curtain shield airbag (P seat side) squib malfunction - Airbag ECU Assy malfunction	- Floor wire No.2 - Curtain shield airbag Assy RH (Curtain shield airbag (P seat side) squib) - Airbag ECU Assy

WIRING DIAGRAM



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 CONNECTOR

- (a) Check that the floor wire No.2 connector (on the curtain shield airbag Assy RH side) is not damaged.

OK:

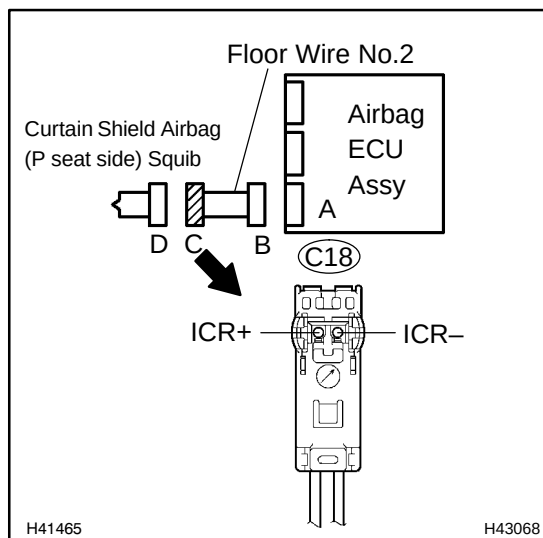
The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG

REPAIR OR REPLACE FLOOR WIRE NO.2

OK

2 CHECK FLOOR WIRE NO.2(CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB CIRCUIT)



- (a) Release the activation prevention mechanism built into connector "B" (see page 05-1397).

- (b) Measure the resistance according to the value(s) in the table below.

Standard:

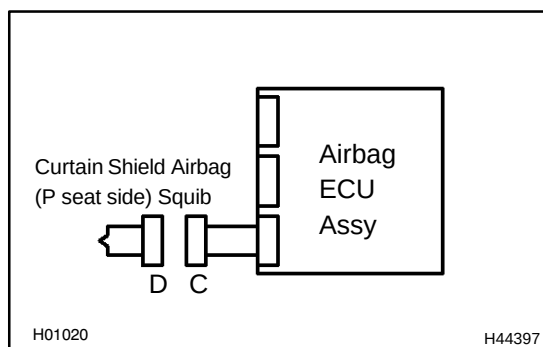
Tester connection	Condition	Specified condition
C18-1 (ICR+) – C18-2 (ICR-)	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE FLOOR WIRE NO.2

OK

3 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU Assy.
- (b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the power switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in memory (see page 05-1402).
- (e) Turn the power switch off.
- (f) Turn the power switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (see page 05-1402).

OK:

DTC B1835 is not output.

HINT:

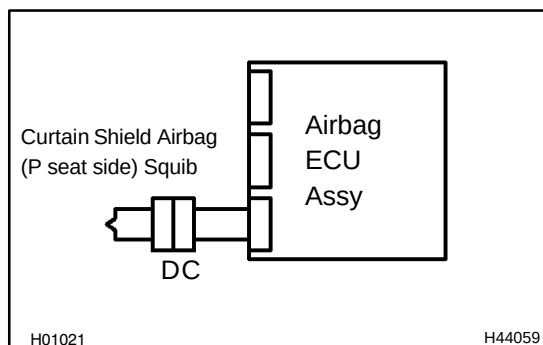
Codes other than code B1835 may be output at this time, but they are not related to this check.

NG

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

OK

4

CHECK CURTAIN SHIELD AIR BAG ASSY RH(CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB)

- (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 connector to the curtain shield airbag assy RH.
- (d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (e) Turn the power switch on (IG), and wait for at least 60 seconds.
- (f) Clear the DTCs stored in memory (see page 05-1402).
- (g) Turn the power switch off.
- (h) Turn the power switch on (IG), and wait for at least 60 seconds.
- (i) Check the DTCs (see page 05-1402).

OK:**DTC B1835 is not output.****HINT:**

Codes other than code B1835 may be output at this time, but they are not related to this check.

NG**REPLACE CURTAIN SHIELD AIR BAG ASSY RH (SEE PAGE 60-41)****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).

DTC	B1836/58	OPEN IN CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB CIRCUIT
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CIRCUIT DESCRIPTION

The curtain shield airbag (P seat side) squib circuit consists of the airbag ECU assy and the curtain shield airbag assy RH.

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

DTC B1836 is recorded when an open circuit is detected in the curtain shield airbag (P seat side) squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1836	• When the airbag ECU assy receives an open signal in the curtain shield airbag (P seat side) squib circuit for 2 seconds. • Curtain shield airbag (P seat side) squib malfunction • Airbag ECU assy malfunction	• Floor wire No.2 • Curtain shield airbag assy RH (Curtain shield airbag (P seat side) squib) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1597](#).

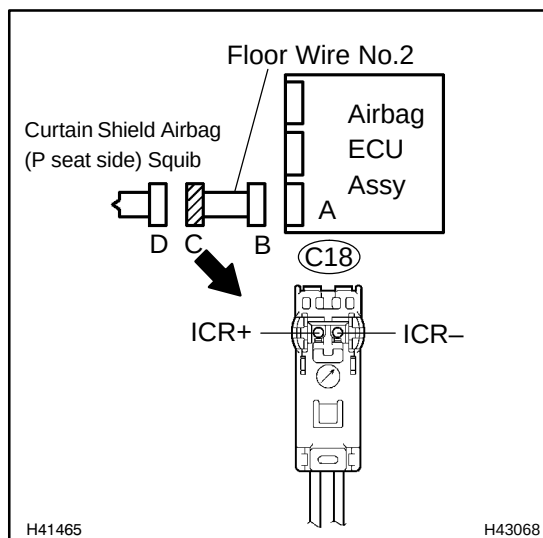
INSPECTION PROCEDURE

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 FLOOR WIRE NO.2(CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB CIRCUIT)



- (a) Measure the resistance according to the value(s) in the table below.

Standard:

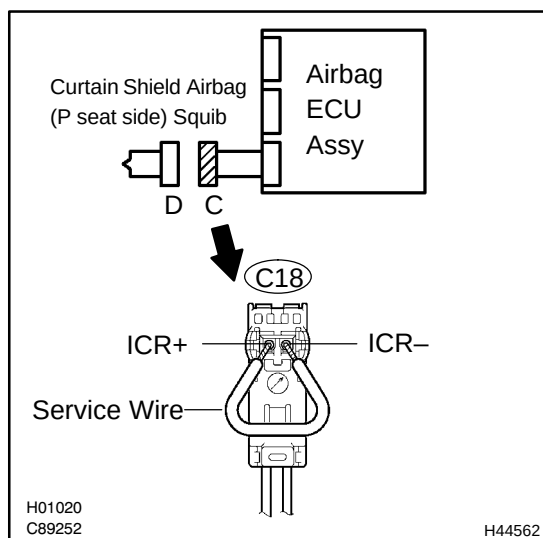
Tester connection	Condition	Specified condition
C18-1 (ICR+) – C18-2 (ICR-)	Always	Below 1 Ω

NG

REPAIR OR REPLACE FLOOR WIRE NO.2

OK

2 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU assy.
- (b) Using a service wire, connect C18-1 (ICR+) and C18-2 (ICR-) of connector "C".

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.**
- (c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
 - (d) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (e) Clear the DTCs stored in memory (see page 05-1402).
 - (f) Turn the power switch off.
 - (g) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (h) Check the DTCs (see page 05-1402).

OK:

DTC B1836 is not output.

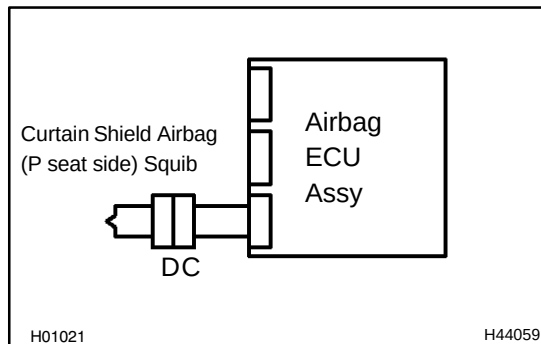
HINT:

Codes other than code B1836 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 CURTAIN SHIELD AIR BAG ASSY RH(CURTAIN SHIELD AIRBAG (P SEAT SIDE) 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 "C".
- (d) Connect the connector to the curtain shield airbag assy RH.
- (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 B1836 is not output.****HINT:**

Codes other than code B1836 may be output at this time, but they are not related to this check.

NG**REPLACE CURTAIN SHIELD AIR BAG ASSY RH (SEE PAGE 60-41)****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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1837/58	SHORT IN CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB CIRCUIT (TO GROUND)
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CIRCUIT DESCRIPTION

The curtain shield airbag (P seat side) squib circuit consists of the airbag ECU assy and the curtain shield airbag assy RH.

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

DTC B1837 is recorded when a short to ground is detected in the curtain shield airbag (P seat side) squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1837	• When the airbag ECU assy receives a short to ground signal in the curtain shield airbag (P seat side) squib circuit for 0.5 seconds. • Curtain shield airbag (P seat side) squib malfunction • Airbag sensor assy malfunction	• Floor wire No.2 • Curtain shield airbag assy RH (Curtain shield airbag (P seat side) squib) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1597](#).

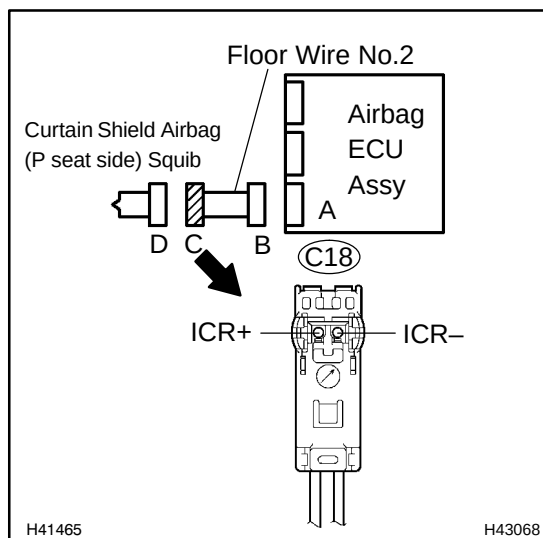
INSPECTION PROCEDURE

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 FLOOR WIRE NO.2(CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB CIRCUIT)



- (a) Measure the resistance according to the value(s) in the table below.

Standard:

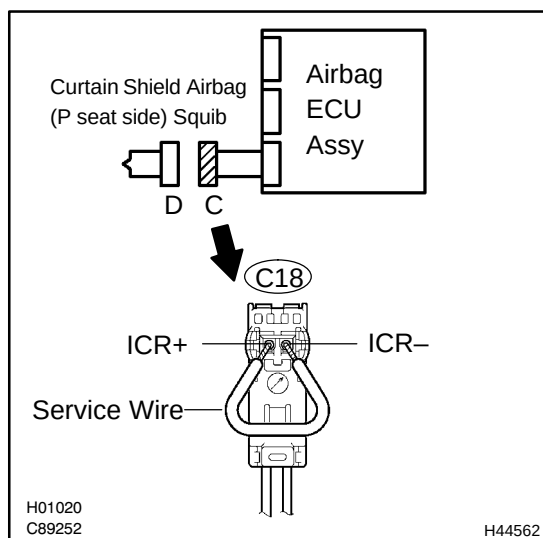
Tester connection	Condition	Specified condition
C18-1 (ICR+) – Body ground	Always	1 MΩ or Higher
C18-2 (ICR-) – Body ground	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE FLOOR WIRE NO.2

OK

2 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU assy.
- (b) Using a service wire, connect C18-1 (ICR+) and C18-2 (ICR-) of connector "C".

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.**
- (c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
 - (d) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (e) Clear the DTCs stored in memory (see page 05-1402).
 - (f) Turn the power switch off.
 - (g) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (h) Check the DTCs (see page 05-1402).

OK:

DTC B1837 is not output.

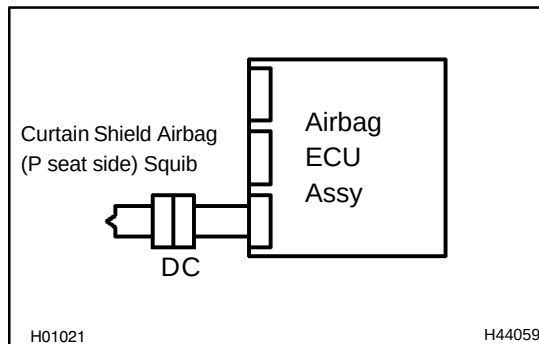
HINT:

Codes other than code B1837 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 CURTAIN SHIELD AIR BAG ASSY RH(CURTAIN SHIELD AIRBAG (P SEAT SIDE) 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 "C".
- (d) Connect the connector to the curtain shield airbag assy RH.
- (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 B1837 is not output.****HINT:**

Codes other than code B1837 may be output at this time, but they are not related to this check.

NG**REPLACE CURTAIN SHIELD AIR BAG ASSY RH (SEE PAGE 60-41)****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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1838/58	SHORT IN CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB CIRCUIT (TO B+)
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CIRCUIT DESCRIPTION

The curtain shield airbag (P seat side) squib circuit consists of the airbag ECU assy and the curtain shield airbag assy RH.

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

DTC B1838 is recorded when a short to B+ is detected in the curtain shield airbag (P seat side) squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1838	• When the airbag ECU assy receives a B+ short signal in the curtain shield airbag (P seat side) squib circuit for 0.5 seconds. • Curtain shield airbag (P seat side) squib malfunction • Airbag ECU assy malfunction	• Floor wire No.2 • Curtain shield airbag assy RH (Curtain shield airbag (P seat side) squib) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1597](#).

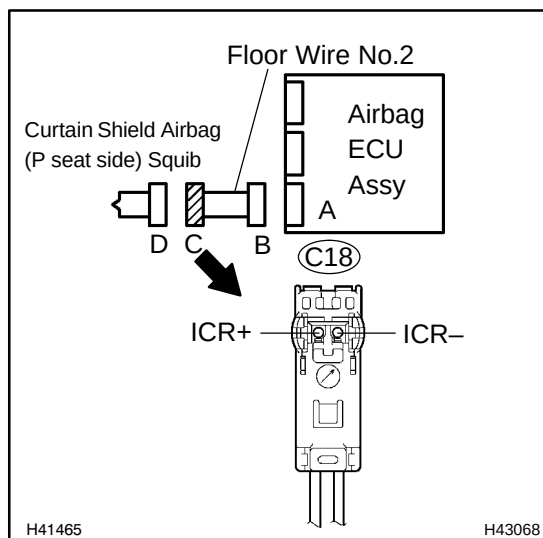
INSPECTION PROCEDURE

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 FLOOR WIRE NO.2(CURTAIN SHIELD AIRBAG (P SEAT SIDE) SQUIB 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:

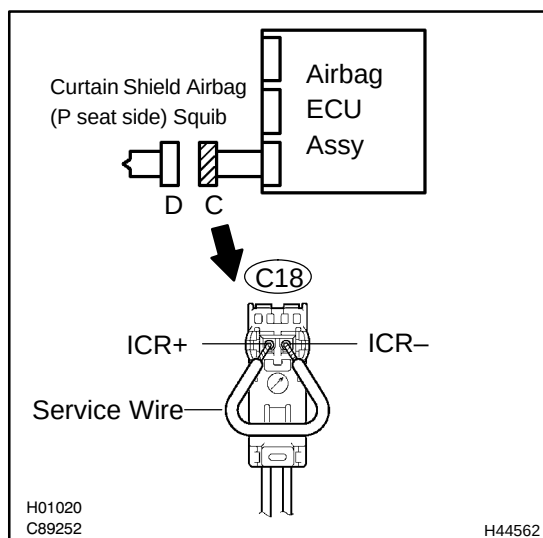
Tester connection	Condition	Specified condition
C18-1 (ICR+) – Body ground	Power switch is on (IG)	Below 1 V
C18-2 (ICR–) – Body ground	Power switch is on (IG)	Below 1 V

NG

REPAIR OR REPLACE FLOOR WIRE NO.2

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 C18–1 (ICR+) and C18–2 (ICR–) of connector "C".

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 B1838 is not output.

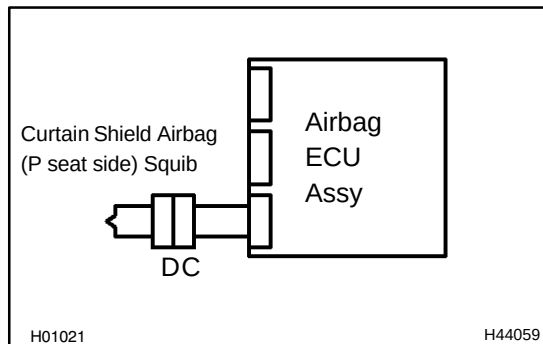
HINT:

Codes other than code B1838 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 CURTAIN SHIELD AIR BAG ASSY RH(CURTAIN SHIELD AIRBAG (P SEAT SIDE) 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 "C".
- (d) Connect the connector to the curtain shield airbag assy RH.
- (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 B1838 is not output.****HINT:**

Codes other than code B1838 may be output at this time, but they are not related to this check.

NG**REPLACE CURTAIN SHIELD AIR BAG ASSY RH (SEE PAGE 60-41)****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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1900/73	SHORT IN P/T SQUIB (D SEAT SIDE) CIRCUIT
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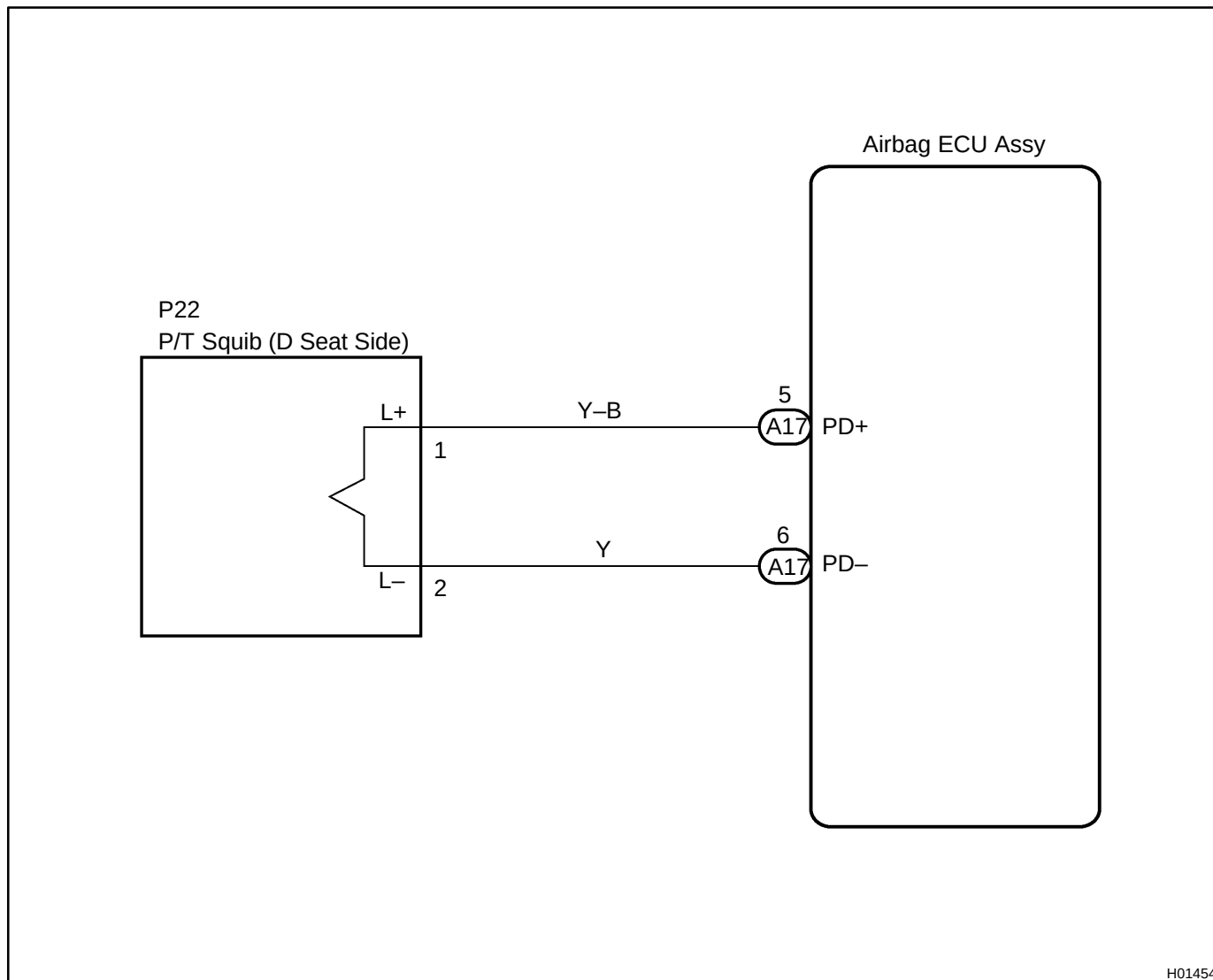
CIRCUIT DESCRIPTION

The P/T squib (D seat side) circuit consists of the airbag ECU assy and the front seat outer belt assy LH. This circuit instructs the SRS to deploy when deployment conditions are met.

DTC B1900 is recorded when a short circuit is detected in the P/T squib (D seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1900	• When the airbag ECU Assy receives a line short signal 5 times in the P/T squib (D seat side) circuit during primary check. • P/T squib (D seat side) malfunction • Airbag ECU Assy malfunction	• Floor wire • Front seat outer belt Assy LH (P/T squib (D seat side)) • Airbag ECU Assy

WIRING DIAGRAM



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 CONNECTOR

- (a) Check that the floor wire connector (on the front seat outer belt Assy LH side) is not damaged.

OK:

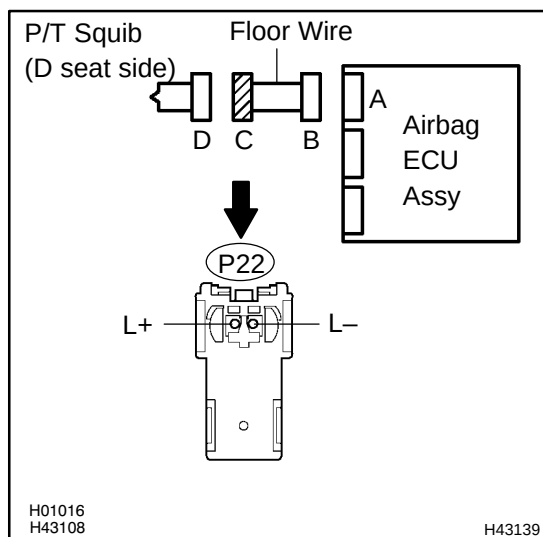
The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG

REPAIR OR REPLACE FLOOR WIRE

OK

2 CHECK FLOOR WIRE(P/T SQUIB (D SEAT SIDE) CIRCUIT)



- (a) Release the activation prevention mechanism built into connector "B" (see page 05-1397).
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

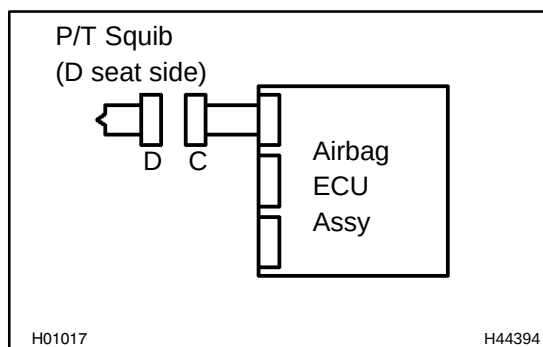
Tester connection	Condition	Specified condition
P22-1 (L+) – P22-2 (L-)	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE FLOOR WIRE

OK

3 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU Assy.
- (b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the power switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in memory (see page 05-1402).
- (e) Turn the power switch off.
- (f) Turn the power switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (see page 05-1402).

OK:

DTC B1900 is not output.

HINT:

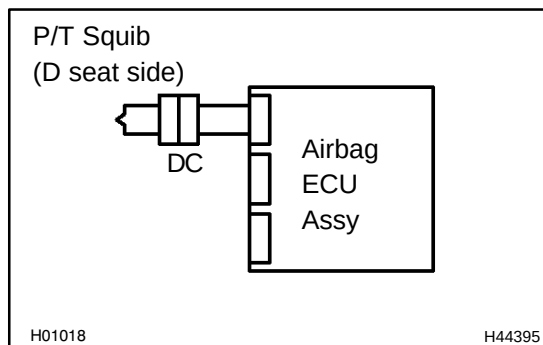
Codes other than code B1900 may be output at this time, but they are not related to this check.

NG

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

OK

4 CHECK FRONT SEAT OUTER BELT ASSY LH(P/T SQUIB (D 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) Connect the connector to the front seat outer belt assy LH.
- (d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (e) Turn the power switch on (IG), and wait for at least 60 seconds.
- (f) Clear the DTCs stored in memory (see page 05-1402).
- (g) Turn the power switch off.
- (h) Turn the power switch on (IG), and wait for at least 60 seconds.
- (i) Check the DTCs (see page 05-1402).

OK:

DTC B1900 is not output.

HINT:

Codes other than code B1900 may be output at this time, but they are not related to this check.

NG

**REPLACE FRONT SEAT OUTER BELT ASSY LH
(SEE PAGE 61-9)**

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).

DTC	B1901/73	OPEN IN P/T SQUIB (D SEAT SIDE) CIRCUIT
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CIRCUIT DESCRIPTION

The P/T squib (D seat side) circuit consists of the airbag ECU Assy and the front seat outer belt Assy LH. This circuit instructs the SRS to deploy when deployment conditions are met.

DTC B1901 is recorded when an open circuit is detected in the P/T squib (D seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1901	• When the airbag ECU Assy receives an open signal in the P/T squib (D seat side) circuit for 2 seconds. • P/T squib (D seat side) malfunction • Airbag ECU Assy malfunction	• Floor wire • Front seat outer belt Assy LH (P/T squib (D seat side)) • Airbag ECU Assy

WIRING DIAGRAM

See page [05-1613](#).

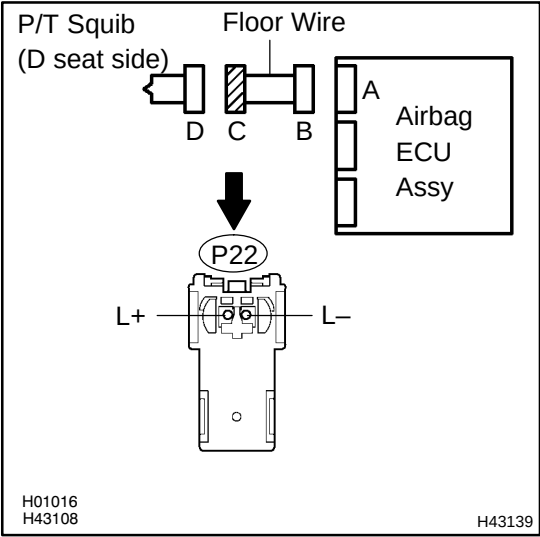
INSPECTION PROCEDURE

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 FLOOR WIRE(P/T SQUIB (D SEAT SIDE) CIRCUIT)



- (a) Measure the resistance according to the value(s) in the table below.

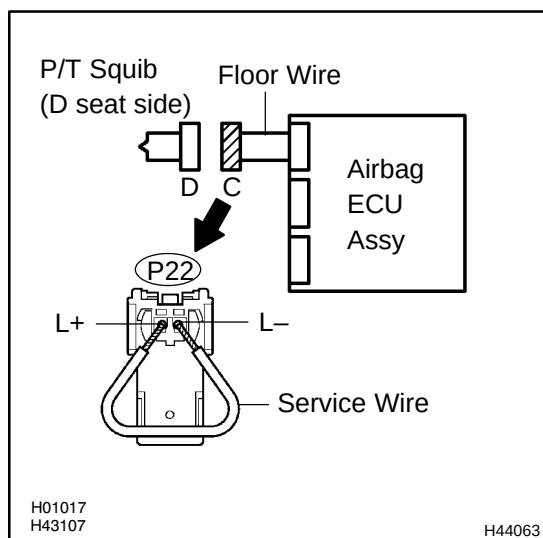
Standard:

Tester connection	Condition	Specified condition
P22-1 (L+) – P22-2 (L–)	Always	Below 1 Ω

OK

NG REPAIR OR REPLACE FLOOR WIRE

2 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU assy.
- (b) Using a service wire, connect P22-1 (L+) and P22-2 (L-) of connector "C".

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.**
- (c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
 - (d) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (e) Clear the DTCs stored in memory (see page 05-1402).
 - (f) Turn the power switch off.
 - (g) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (h) Check the DTCs (see page 05-1402).

OK:

DTC B1901 is not output.

HINT:

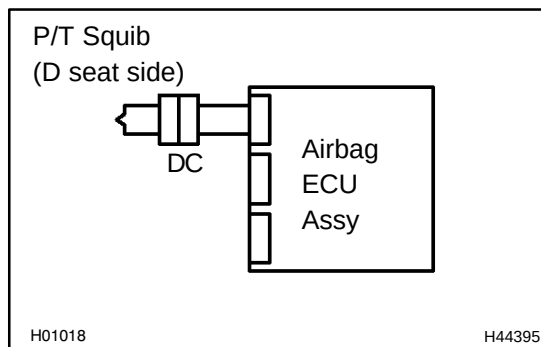
Codes other than code B1901 may be output at this time, but they are not related to this check.

NG

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

OK

3 CHECK FRONT SEAT OUTER BELT ASSY LH(P/T SQUIB (D 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 "C".
- (d) Connect the connector to the front seat outer belt assy LH.
- (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 B1901 is not output.

HINT:

Codes other than code B1901 may be output at this time, but they are not related to this check.

NG

**REPLACE FRONT SEAT OUTER BELT ASSY LH
(SEE PAGE 61-9)**

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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1902/73	SHORT IN P/T SQUIB (D SEAT SIDE) CIRCUIT (TO GROUND)
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CIRCUIT DESCRIPTION

The P/T squib (D seat side) circuit consists of the airbag ECU assy and the front seat outer belt assy LH. This circuit instructs the SRS to deploy when deployment conditions are met.

DTC B1902 is recorded when a short to ground is detected in the P/T squib (D seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1902	• When the airbag ECU assy receives a short to ground signal in the P/T squib (D seat side) circuit for 0.5 seconds. • P/T squib (D seat side) malfunction • Airbag ECU assy malfunction	• Floor wire • Front seat outer belt assy LH (P/T squib (D seat side)) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1613](#).

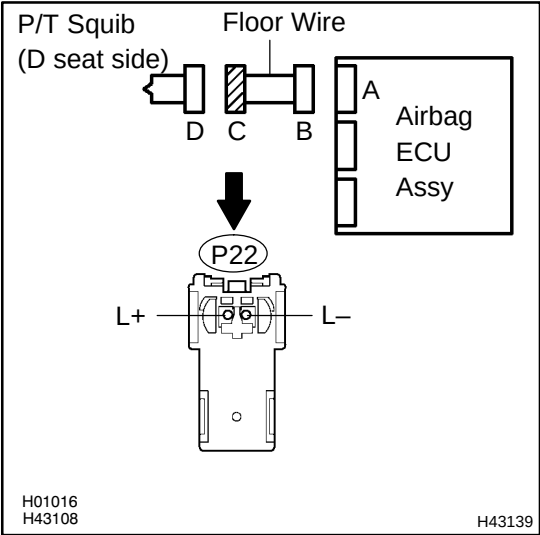
INSPECTION PROCEDURE

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 FLOOR WIRE(P/T SQUIB (D SEAT SIDE) CIRCUIT)



- (a) Measure the resistance according to the value(s) in the table below.

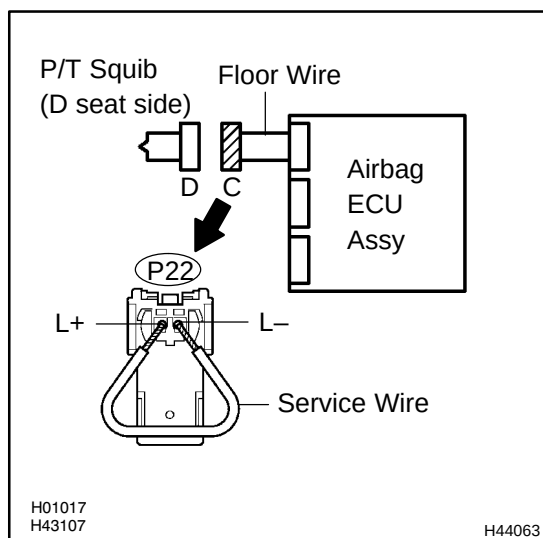
Standard:

Tester connection	Condition	Specified condition
P22-1 (L+) – Body ground	Always	1 MΩ or Higher
P22-2 (L-) – Body ground	Always	1 MΩ or Higher

OK

NG REPAIR OR REPLACE FLOOR WIRE

2 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU assy.
- (b) Using a service wire, connect P22-1 (L+) and P22-2 (L-) of connector "C".

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.**
- (c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
 - (d) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (e) Clear the DTCs stored in memory (see page 05-1402).
 - (f) Turn the power switch off.
 - (g) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (h) Check the DTCs (see page 05-1402).

OK:

DTC B1902 is not output.

HINT:

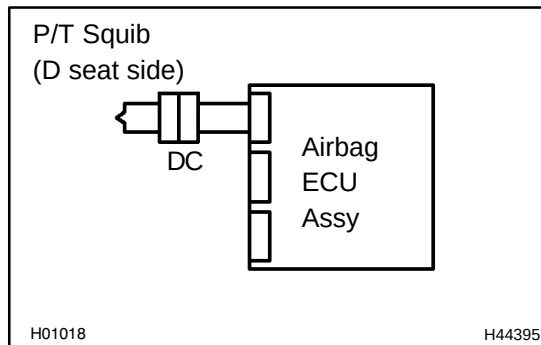
Codes other than code B1902 may be output at this time, but they are not related to this check.

NG

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

OK

3 CHECK FRONT SEAT OUTER BELT ASSY LH(P/T SQUIB (D 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 "C".
- (d) Connect the connector to the front seat outer belt assy LH.
- (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 B1902 is not output.

HINT:

Codes other than code B1902 may be output at this time, but they are not related to this check.

NG

**REPLACE FRONT SEAT OUTER BELT ASSY LH
(SEE PAGE 61-9)**

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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1903/73	SHORT IN P/T SQUIB (D SEAT SIDE) CIRCUIT (TO B+)
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CIRCUIT DESCRIPTION

The P/T squib (D seat side) circuit consists of the airbag ECU assy and the front seat outer belt assy LH. This circuit instructs the SRS to deploy when deployment conditions are met.

DTC B1903 is recorded when a short to B+ is detected in the P/T squib (D seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1903	• When the airbag ECU assy receives a B+ short signal in the P/T squib (D seat side) circuit for 0.5 seconds. • P/T squib (D seat side) malfunction • Airbag ECU assy malfunction	• Floor wire • Front seat outer belt assy LH (P/T squib (D seat side)) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1613](#).

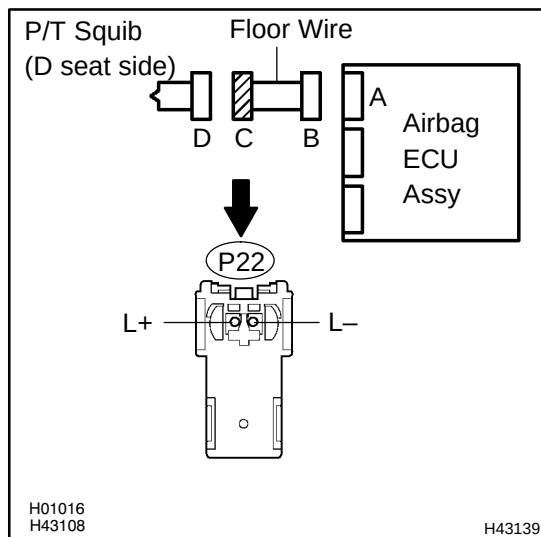
INSPECTION PROCEDURE

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 FLOOR WIRE(P/T SQUIB (D SEAT SIDE) CIRCUIT)



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

Standard:

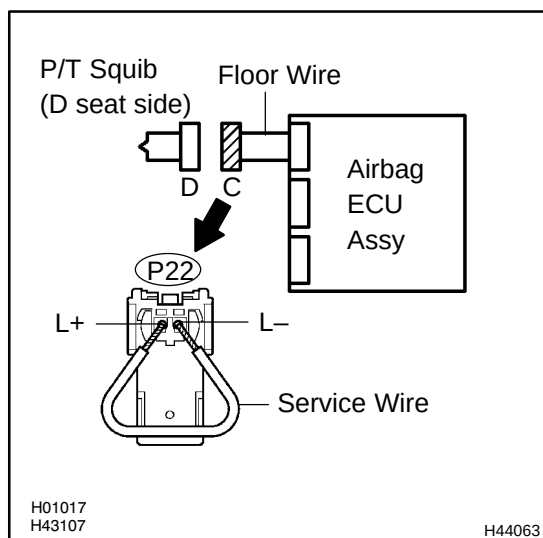
Tester connection	Condition	Specified condition
P22-1 (L+) – Body ground	Power switch is on (IG)	Below 1 V
P22-2 (L-) – Body ground	Power switch is on (IG)	Below 1 V

NG

REPAIR OR REPLACE FLOOR WIRE

OK

2 CHECK AIR BAG ECU ASSY



- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Connect the connectors to the airbag ECU Assy.
- Using a service wire, connect P22–1 (L+) and P22–2 (L–) of connector "C".

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.
- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
 - Turn the power switch on (IG), and wait for at least 60 seconds.
 - Clear the DTCs stored in memory (see page 05-1402).
 - Turn the power switch off.
 - Turn the power switch on (IG), and wait for at least 60 seconds.
 - Check the DTCs (see page 05-1402).

OK:

DTC B1903 is not output.

HINT:

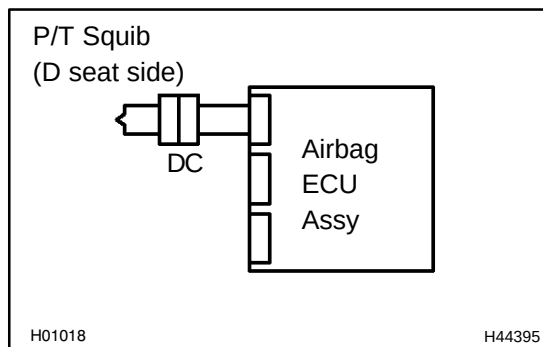
Codes other than code B1903 may be output at this time, but they are not related to this check.

NG

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

OK

3 CHECK FRONT SEAT OUTER BELT ASSY LH(P/T SQUIB (D 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 "C".
- (d) Connect the connector to the front seat outer belt assy LH.
- (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 B1903 is not output.

HINT:

Codes other than code B1903 may be output at this time, but they are not related to this check.

NG

**REPLACE FRONT SEAT OUTER BELT ASSY LH
(SEE PAGE 61-9)**

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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1905/74	SHORT IN P/T SQUIB (P SEAT SIDE) CIRCUIT
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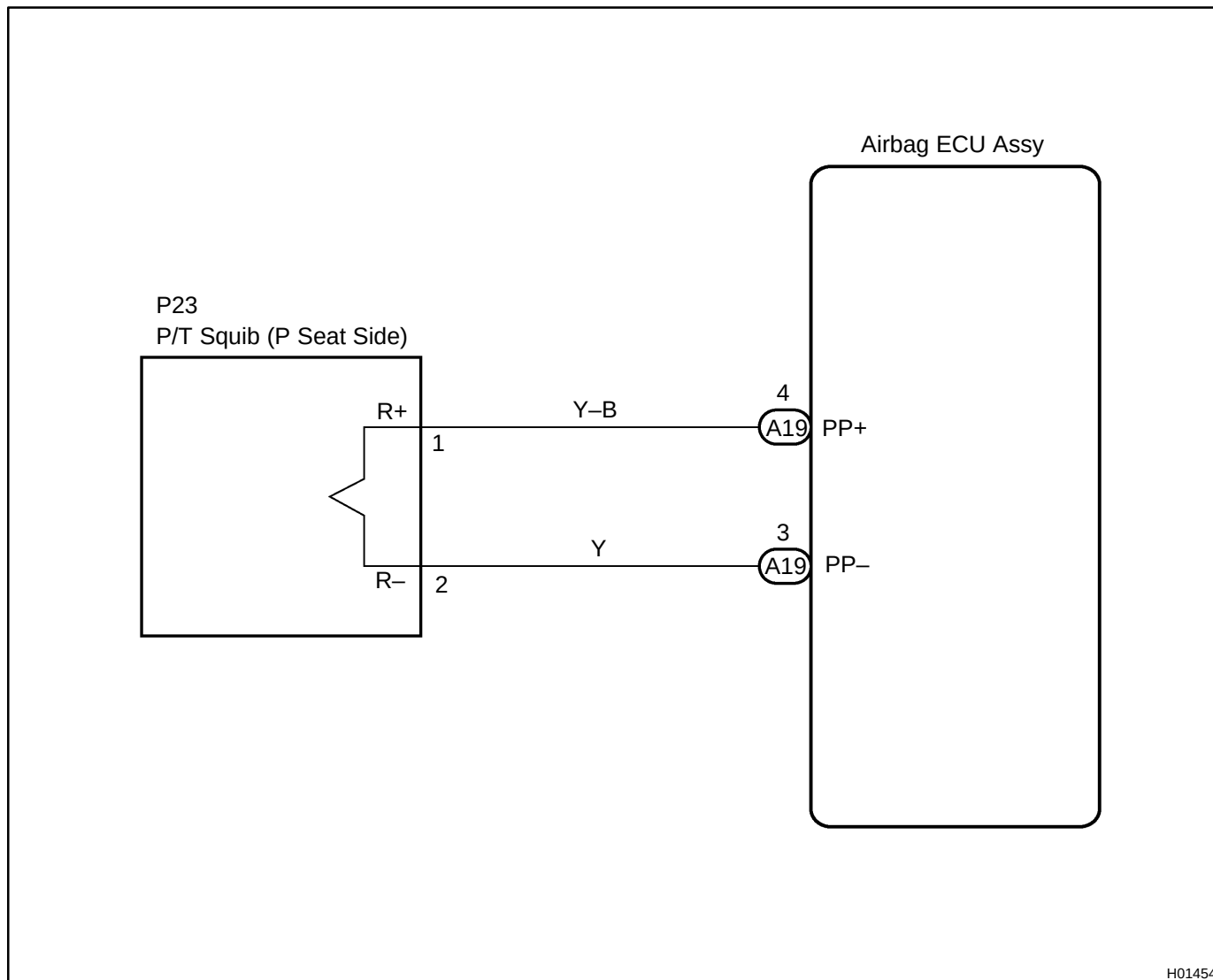
CIRCUIT DESCRIPTION

The P/T squib (P seat side) circuit consists of the airbag ECU Assy and the front seat outer belt Assy RH. This circuit instructs the SRS to deploy when deployment conditions are met.

DTC B1905 is recorded when a short circuit is detected in the P/T squib (P seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1905	- When the airbag ECU Assy receives a line short signal 5 times in the P/T squib (P seat side) circuit during primary check. - P/T squib (P seat side) malfunction - Airbag ECU Assy malfunction	- Floor wire No.2 - Front seat outer belt Assy RH (P/T squib (P seat side)) - Airbag ECU Assy

WIRING DIAGRAM



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 CONNECTOR

- (a) Check that the floor wire No.2 connector (on the front seat outer belt Assy RH side) is not damaged.

OK:

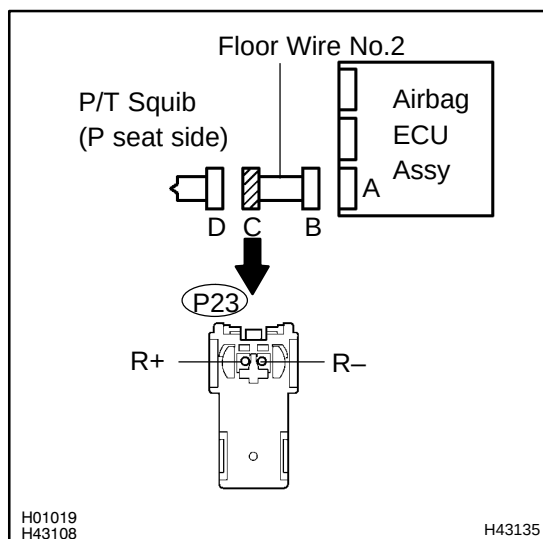
The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG

REPAIR OR REPLACE FLOOR WIRE NO.2

OK

2 CHECK FLOOR WIRE NO.2(P/T SQUIB (P SEAT SIDE) CIRCUIT)



- (a) Release the activation prevention mechanism built into connector "B" (see page 05-1397).
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

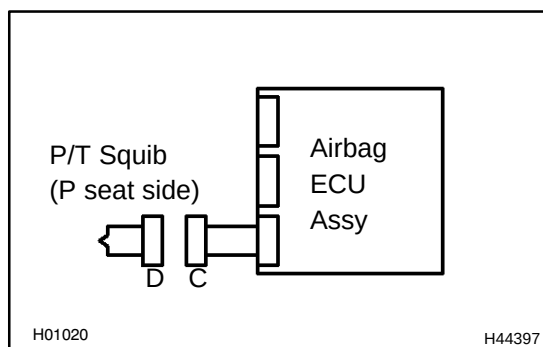
Tester connection	Condition	Specified condition
P23-1 (R+) – P23-2 (R-)	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE FLOOR WIRE NO.2

OK

3 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU Assy.
- (b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the power switch on (IG), and wait for at least 60 seconds.
- (d) Clear the DTCs stored in memory (see page 05-1402).
- (e) Turn the power switch off.
- (f) Turn the power switch on (IG), and wait for at least 60 seconds.
- (g) Check the DTCs (see page 05-1402).

OK:

DTC B1905 is not output.

HINT:

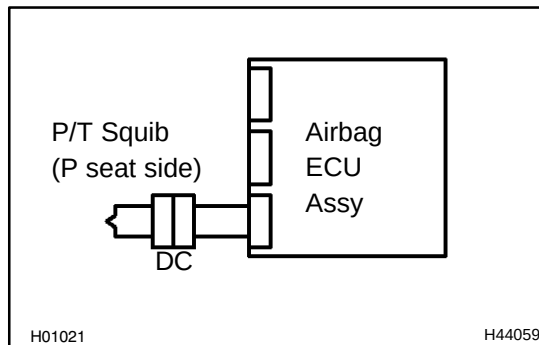
Codes other than code B1905 may be output at this time, but they are not related to this check.

NG

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

OK

4 CHECK FRONT SEAT OUTER BELT ASSY RH(P/T 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) Connect the connector to the front seat outer belt assy RH.
- (d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (e) Turn the power switch on (IG), and wait for at least 60 seconds.
- (f) Clear the DTCs stored in memory (see page 05-1402).
- (g) Turn the power switch off.
- (h) Turn the power switch on (IG), and wait for at least 60 seconds.
- (i) Check the DTCs (see page 05-1402).

OK:

DTC B1905 is not output.

HINT:

Codes other than code B1905 may be output at this time, but they are not related to this check.

NG

REPLACE FRONT SEAT OUTER BELT ASSY RH (SEE PAGE 61-9)

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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1906/74	OPEN IN P/T SQUIB (P SEAT SIDE) CIRCUIT
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CIRCUIT DESCRIPTION

The P/T squib (P seat side) circuit consists of the airbag ECU Assy and the front seat outer belt Assy RH. This circuit instructs the SRS to deploy when deployment conditions are met.

DTC B1906 is recorded when an open circuit is detected in the P/T squib (P seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1906	- When the airbag ECU Assy receives an open signal in the P/T squib (P seat side) circuit for 2 seconds. - P/T squib (P seat side) malfunction - Airbag ECU Assy malfunction	- Floor wire No.2 - Front seat outer belt Assy RH (P/T squib (P seat side)) - Airbag ECU Assy

WIRING DIAGRAM

See page [05-1629](#).

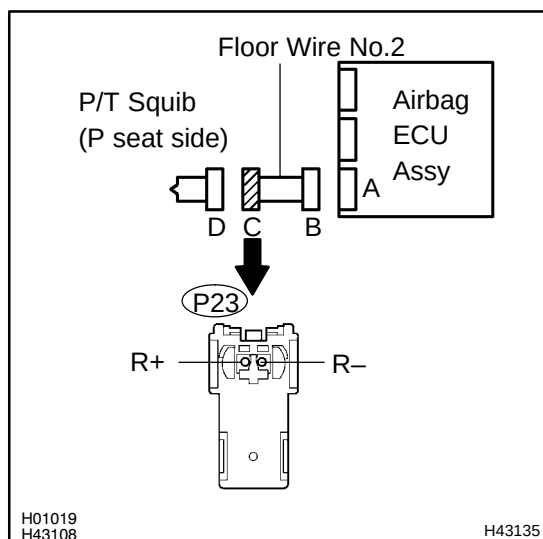
INSPECTION PROCEDURE

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 FLOOR WIRE NO.2(P/T SQUIB (P SEAT SIDE) CIRCUIT)



- (a) Measure the resistance according to the value(s) in the table below.

Standard:

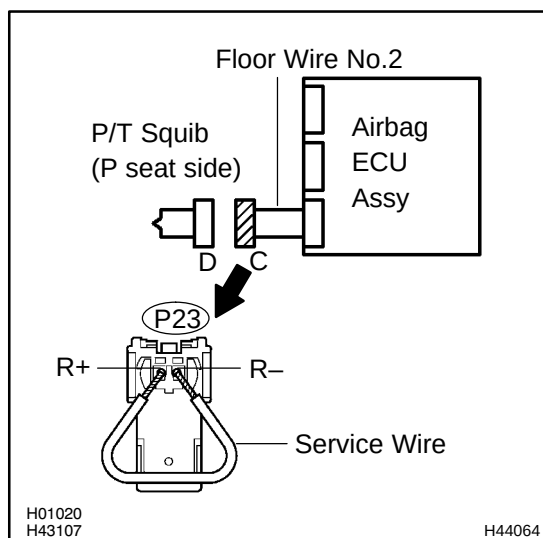
Tester connection	Condition	Specified condition
P23-1 (R+) – P23-2 (R-)	Always	Below 1 Ω

NG

REPAIR OR REPLACE FLOOR WIRE NO.2

OK

2 CHECK AIR BAG ECU ASSY



- (a) Connect the connectors to the airbag ECU Assy.
- (b) Using a service wire, connect P23-1 (R+) and P23-2 (R-) of connector "C".

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.**
- (c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
 - (d) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (e) Clear the DTCs stored in memory (see page 05-1402).
 - (f) Turn the power switch off.
 - (g) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (h) Check the DTCs (see page 05-1402).

OK:

DTC B1906 is not output.

HINT:

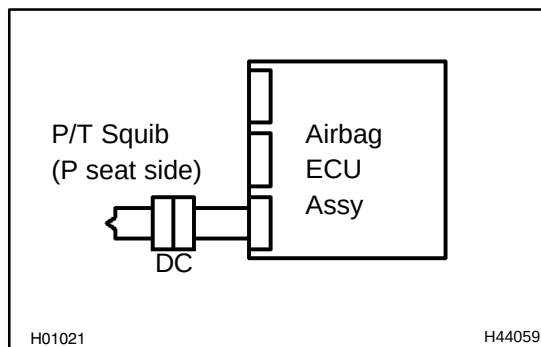
Codes other than code B1906 may be output at this time, but they are not related to this check.

NG

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

OK

3 CHECK FRONT SEAT OUTER BELT ASSY RH(P/T 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 "C".
- (d) Connect the connector to the front seat outer belt assy RH.
- (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 B1906 is not output.

HINT:

Codes other than code B1906 may be output at this time, but they are not related to this check.

NG

**REPLACE FRONT SEAT OUTER BELT ASSY RH
(SEE PAGE 61-9)**

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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1907/74	SHORT IN P/T SQUIB (P SEAT SIDE) CIRCUIT (TO GROUND)
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CIRCUIT DESCRIPTION

The P/T squib (P seat side) circuit consists of the airbag ECU assy and the front seat outer belt assy RH. This circuit instructs the SRS to deploy when deployment conditions are met.

DTC B1907 is recorded when a short to ground is detected in the P/T squib (P seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1907	• When the airbag ECU assy receives a short to ground signal in the P/T squib (P seat side) circuit for 0.5 seconds. • P/T squib (P seat side) malfunction • Airbag ECU assy malfunction	• Floor wire No.2 • Front seat outer belt assy RH (P/T squib (P seat side)) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1629](#).

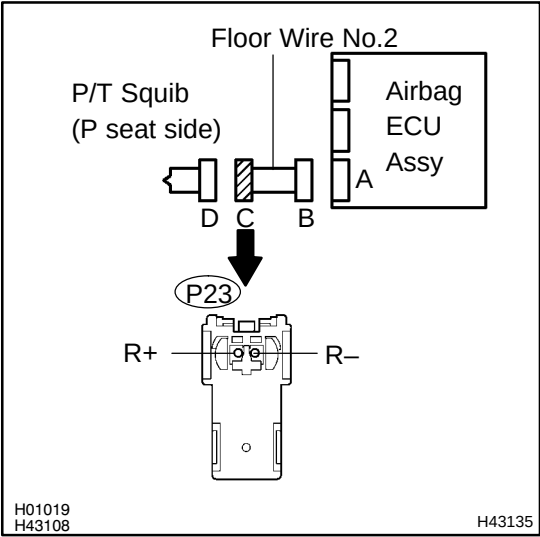
INSPECTION PROCEDURE

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 FLOOR WIRE NO.2(P/T SQUIB (P SEAT SIDE) CIRCUIT)



- (a) Measure the resistance according to the value(s) in the table below.

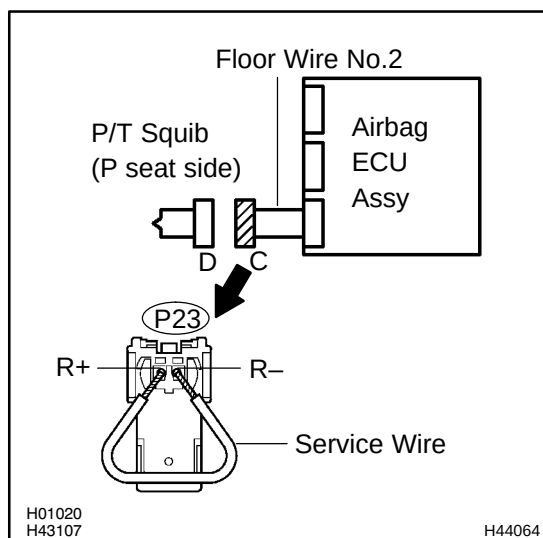
Standard:

Tester connection	Condition	Specified condition
P23-1 (R+) – Body ground	Always	1 MΩ or Higher
P23-2 (R-) – Body ground	Always	1 MΩ or Higher

OK

NG REPAIR OR REPLACE FLOOR WIRE NO.2

2 CHECK AIR BAG ECU ASSY



- (a) Connect the connector to the airbag ECU Assy.
- (b) Using a service wire, connect P23-1 (R+) and P23-2 (R-) of connector "C".

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.**
- (c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
 - (d) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (e) Clear the DTCs stored in memory (see page 05-1402).
 - (f) Turn the power switch off.
 - (g) Turn the power switch on (IG), and wait for at least 60 seconds.
 - (h) Check the DTCs (see page 05-1402).

OK:

DTC B1907 is not output.

HINT:

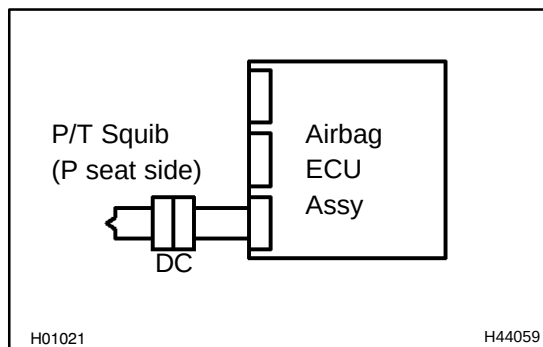
Codes other than code B1907 may be output at this time, but they are not related to this check.

NG

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

OK

3 CHECK FRONT SEAT OUTER BELT ASSY RH(P/T 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 "C".
- (d) Connect the connector to the front seat outer belt assy RH.
- (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 B1907 is not output.

HINT:

Codes other than code B1907 may be output at this time, but they are not related to this check.

NG

**FRONT SEAT OUTER BELT ASSY RH
(SEE PAGE 61-9)**

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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

DTC	B1908/74	SHORT IN P/T SQUIB (P SEAT SIDE) CIRCUIT (TO B+)
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CIRCUIT DESCRIPTION

The P/T squib (P seat side) circuit consists of the airbag sensor assy center and the front seat outer belt assy RH.

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

DTC B1908 is recorded when a short to B+ is detected in the P/T squib (P seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1908	• When the airbag sensor assy center receives a B+ short signal in the P/T squib (P seat side) circuit for 0.5 seconds. • P/T squib (P seat side) malfunction • Airbag ECU assy malfunction	• Floor wire No.2 • Front seat outer belt assy RH (P/T squib (P seat side)) • Airbag ECU assy

WIRING DIAGRAM

See page [05-1629](#).

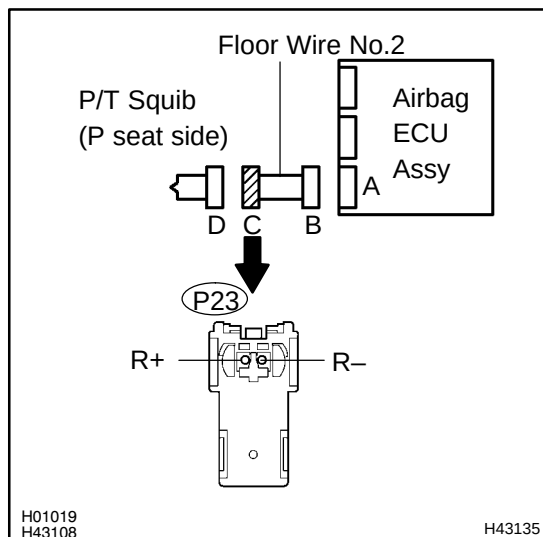
INSPECTION PROCEDURE

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 sensor assy center.
- (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 FLOOR WIRE NO.2(P/T 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:

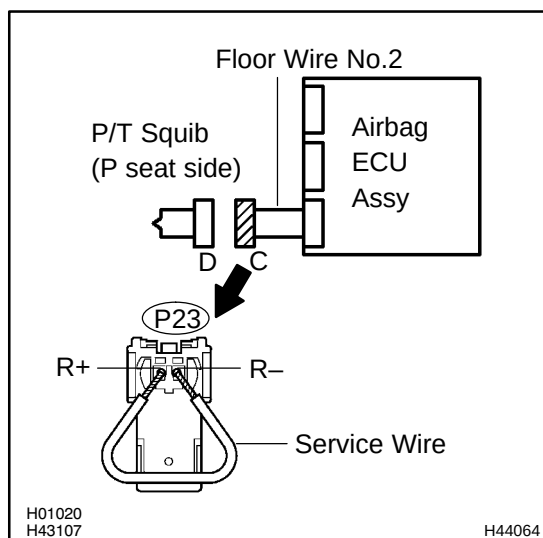
Tester connection	Condition	Specified condition
P23-1 (R+) – Body ground	Power switch is on (IG)	Below 1 V
P23-2 (R-) – Body ground	Power switch is on (IG)	Below 1 V

NG

REPAIR OR REPLACE FLOOR WIRE NO.2

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 sensor assy center.
- (d) Using a service wire, connect P23–1 (R+) and P23–2 (R–) of connector "C".

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 B1908 is not output.

HINT:

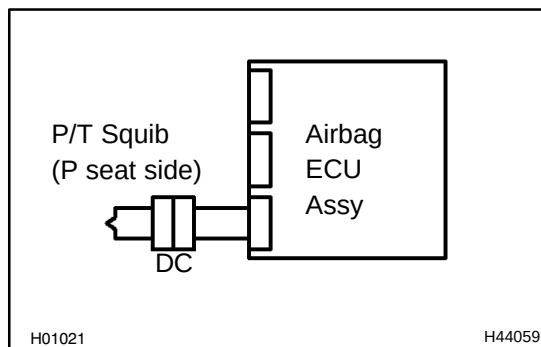
Codes other than code B1908 may be output at this time, but they are not related to this check.

NG

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

OK

3 CHECK FRONT SEAT OUTER BELT ASSY RH(P/T 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 "C".
- (d) Connect the connector to the front seat outer belt assy RH.
- (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 B1908 is not output.

HINT:

Codes other than code B1908 may be output at this time, but they are not related to this check.

NG

REPLACE FRONT SEAT OUTER BELT ASSY RH (SEE PAGE 61-9)

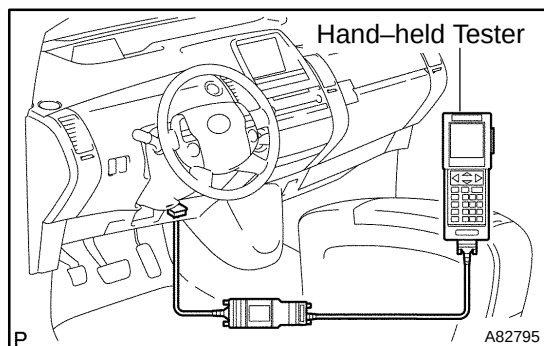
OK

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 air-bag system or driving the vehicle on a city or rough road (see page 05-1405).

CHECK MODE PROCEDURE



1. CHECK MODE (SIGNAL CHECK)

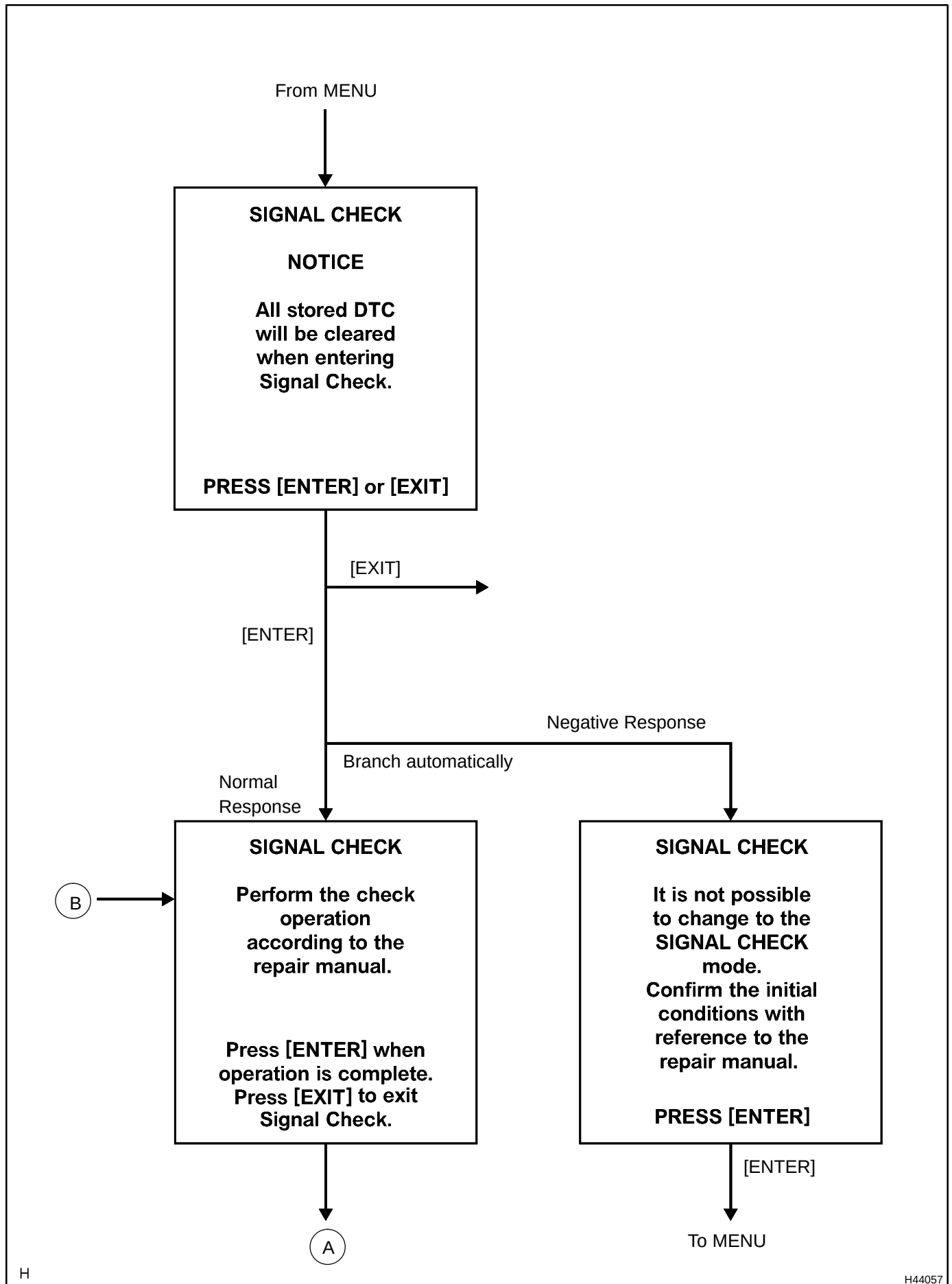
- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the power switch on (IG).
- (c) Select the "SIGNAL CHECK", and proceed checking with the hand-held tester.

HINT:

- Malfunctions can be detected in the check mode better than the normal check mode.
- If the normal system code is output in the normal check mode even when a sensor signal malfunction is suspected, perform the inspection in the check mode.

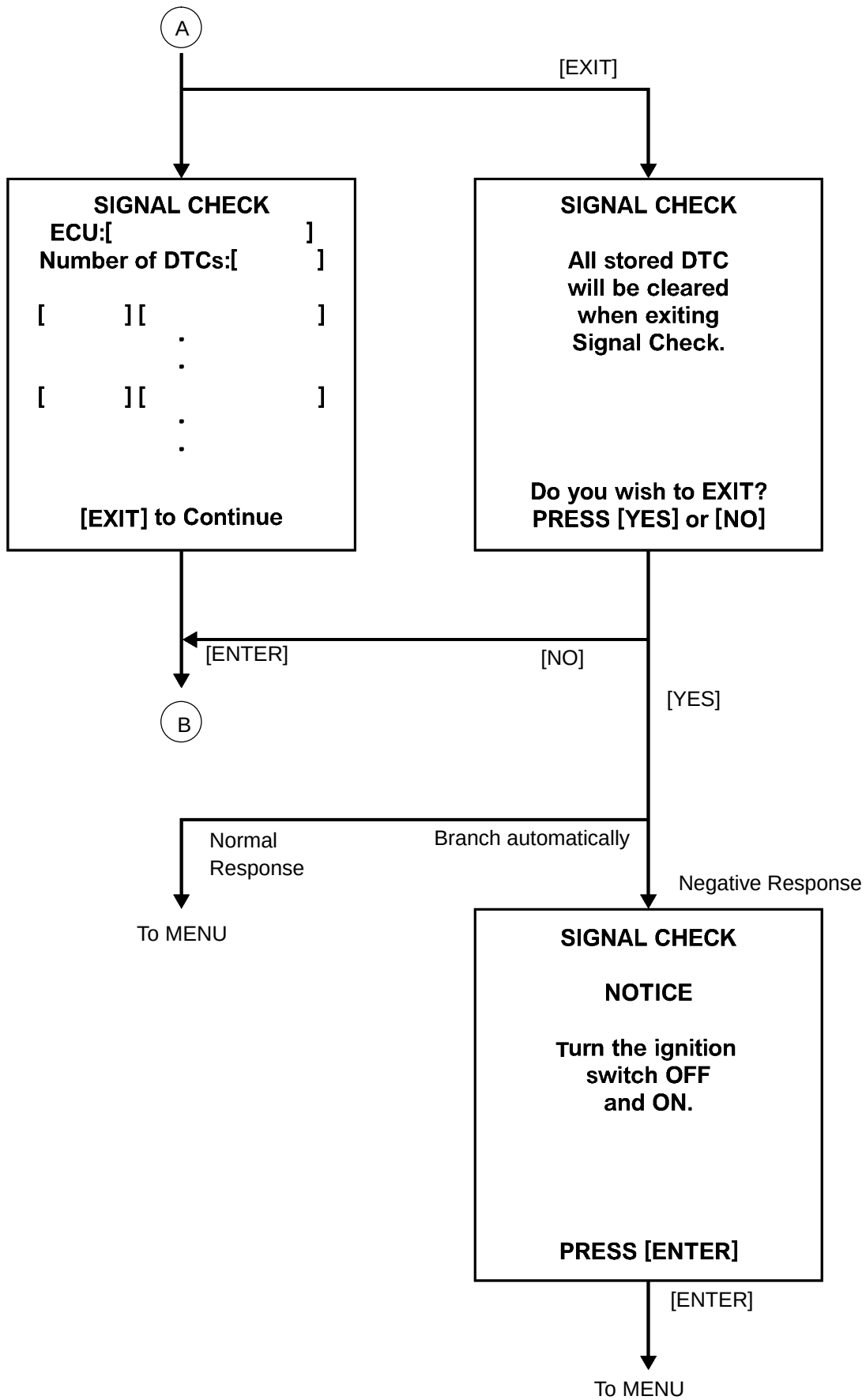
[System Selection Screen]

"1: DIAGNOSIS" – "1: OBD/MOBD" – "MODEL YEAR" –
 "MODEL SELECTION = PRIUS" – Select the option parts –
 "8: SRS AIRBAG " – "SIGNAL CHECK"

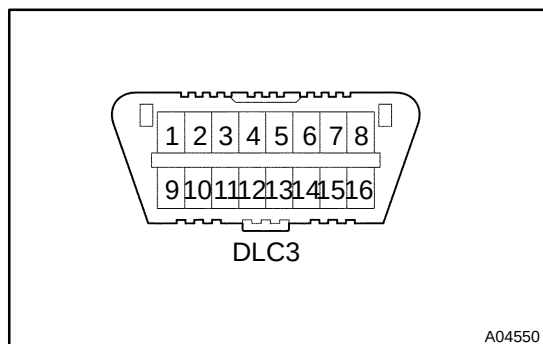


H

H44057



DIAGNOSIS SYSTEM



1. CHECK DLC3

- (a) The HV ECU uses the ISO 14230 and ISO 9141-2 for communication protocol. The terminal arrangement of the DLC3 complies with SAE J1962 and matches the ISO 14230 and ISO 9141-2 format.

Symbols (Terminals No.)	Terminal Description	Condition	Specified condition
SIL (7) – SG (5)	Bus " + " line	During transmission	Pulse generation
CG (4) – Body ground	Chassis ground	Always	Below 1 Ω
SG (5) – Body ground	Signal ground	Always	Below 1 Ω
BAT (16) – Body ground	Battery positive	Always	11 to 14 V
CANH (6) – CANL (14)	HIGH-level CAN bus line	Power switch is off	54 to 67 Ω
CANH (6) – Battery positive	HIGH-level CAN bus line	Power switch is off	1 M Ω or Higher
CANH (6) – CG (4)	HIGH-level CAN bus line	Power switch is off	3 k Ω or Higher
CANL (14) – Battery positive	LOW-level CAN bus line	Power switch is off	1 M Ω or Higher
CANL (14) – CG (4)	LOW-level CAN bus line	Power switch is off	3 k Ω or Higher

HINT:

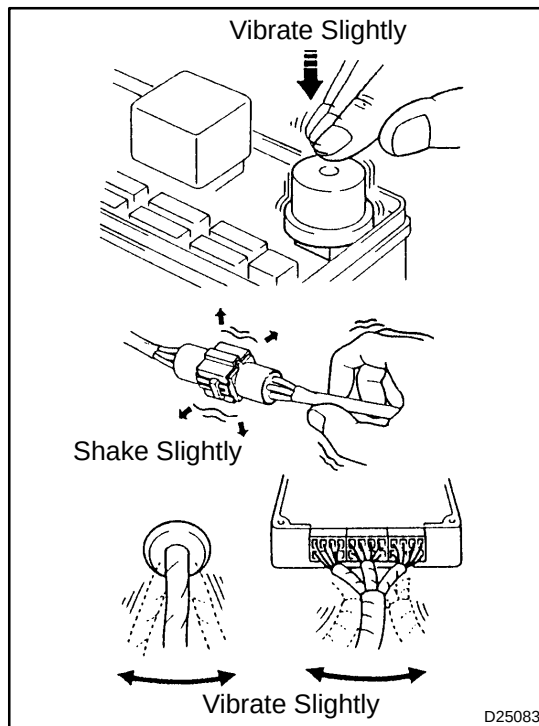
If the display shows **UNABLE TO CONNECT TO VEHICLE** after connecting the cable of the hand-held tester to the DLC3, turning the power switch on (IG) and operating the hand-held tester, there is a problem on the vehicle side or tool side.

- If communication is normal when the tool is connected to another vehicle, inspect the DLC3 on the original vehicle.
- If communication is still not possible when the tool is connected to another vehicle, the problem is probably in the tool itself. Consult the Service Department listed in the tool's instruction manual.

2. SYMPTOM SIMULATION

HINT:

The most difficult case in troubleshooting is when no symptoms occur. In such cases, a thorough customer problem analysis must be carried out. Then the same or similar conditions and environment in which the problem occurred in the customer's vehicle should be simulated. No matter how experienced or skilled a technician may be, if he proceeds to troubleshoot without confirming the problem symptoms, he will likely overlook something important and make a wrong guess at some points in the repair operation. This leads to a standstill in troubleshooting.



- (a) Vibration method: When vibration seems to be the major cause.

HINT:

Perform the simulation method only during the primary check period (for approximately 6 seconds after the power switch on (IG)).

- (1) Slightly vibrate the part of the sensor considered to be the problem cause with your fingers and check whether the malfunction occurs.

HINT:

Shaking the relays too strongly may result in open relays.

- (2) Slightly shake the connector vertically and horizontally.
- (3) Slightly shake the wire harness vertically and horizontally.

The connector joint and fulcrum of the vibration are the major areas to be checked thoroughly.

3. FUNCTION OF SRS WARNING LIGHT

- (a) Primary check

- (1) Turn the power switch off. Wait for at least 2 seconds, then turn the power switch on (IG). The SRS warning light comes on for approximately 6 seconds and the diagnosis of the SRS airbag system (including the seat belt) is performed.

HINT:

If trouble is detected during the primary check, the SRS warning light remains on even after the primary check period (for approximately 6 seconds after the power switch is turned on (IG)) has elapsed.

- (b) Constant check

- (1) After the primary check, the airbag ECU Assy monitors the SRS airbag system for trouble.

HINT:

If trouble is detected during the constant check, the airbag ECU Assy functions as follows:

- The SRS warning light comes on.
- The SRS warning light goes off and then comes on. This blinking pattern indicates the source voltage drop. The SRS warning light goes off 10 seconds after the source voltage returns to normal.

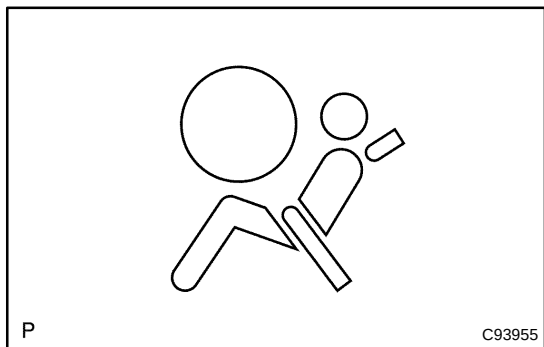
- (c) Review

- (1) When the SRS airbag system is normal:
The SRS warning light comes on only during the primary check period (for approximately 6 seconds after the power switch is turned on (IG)).

- (2) When the SRS airbag system has trouble:
- The SRS warning light remains on.
 - The SRS warning light goes off after the primary check, but comes on again during the constant check.
 - The SRS warning light does not come on when turning the power switch from off to on (IG).

HINT:

The airbag ECU assy keeps the SRS warning light on if one of the airbags has been deployed.



4. SRS WARNING LIGHT CHECK

- Turn the power switch on (IG) and check that the SRS warning light comes on for approximately 6 seconds (primary check).
- Check that the SRS warning light goes off approximately 6 seconds after the power switch is turned on (IG) (constant check).

HINT:

When any of the following symptoms occur, refer to the "Problem Symptoms Table" (see page 05-1394):

- The SRS warning light comes on occasionally even after the primary check period has elapsed, there may be an open or short in the SRS warning light circuit.
- The SRS warning light comes on even when a DTC or normal system code is not output.
- The SRS warning light does not come on when the power switch is turned from off to on (IG).

5. ACTIVATION PREVENTION MECHANISM

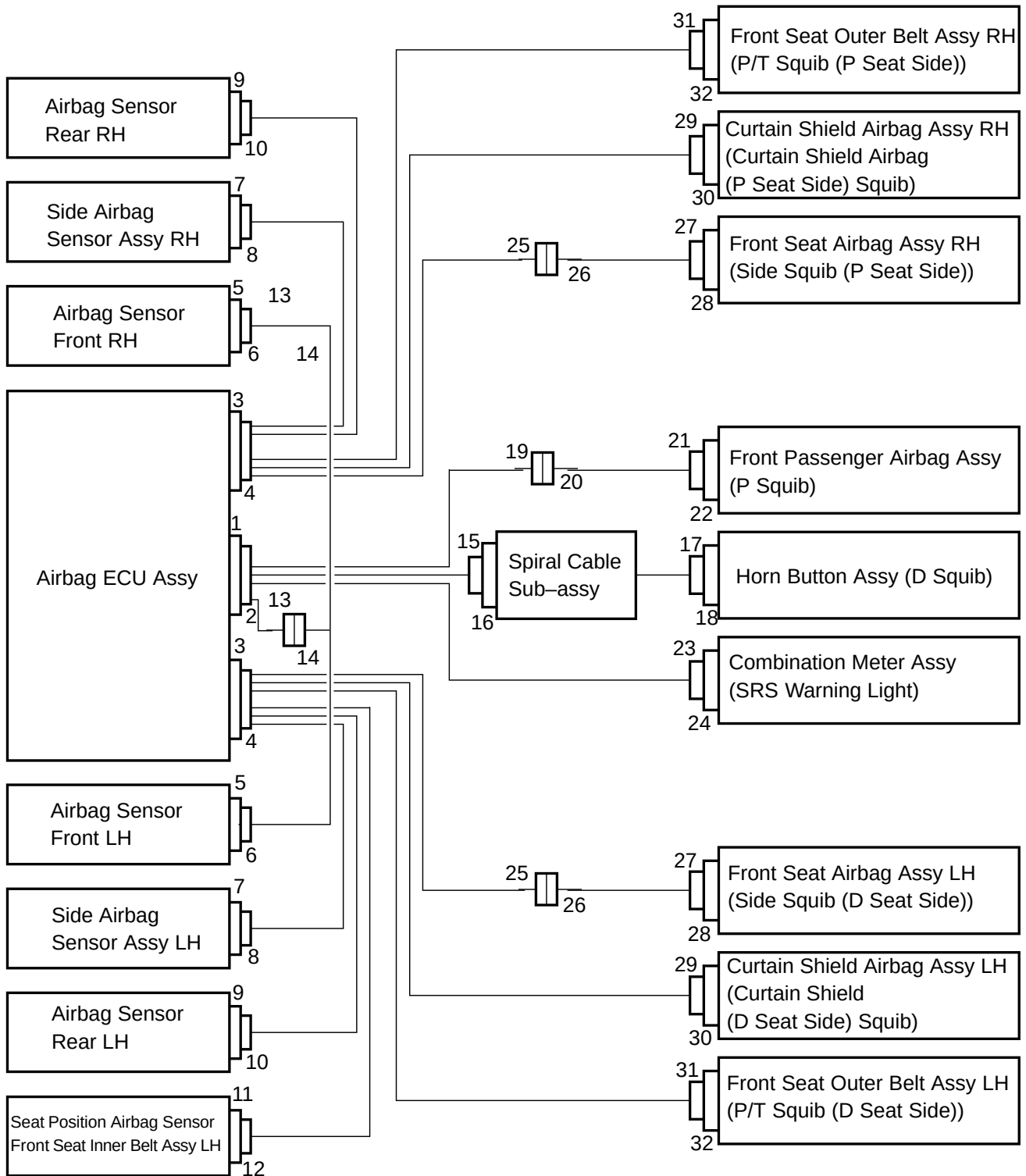
- An activation prevention mechanism is built into the connector (airbag ECU assy side) of the SRS airbag system squib circuit to prevent accidental airbag activation.
- This mechanism closes the circuit when the connector is disconnected by bringing the short spring into contact with the terminal and shutting off external electricity of prevent accidental SRS airbag activation.
- To release the activation prevention mechanism, insert a piece of paper with the same thickness as the male terminal between the terminal and the short spring to break the connection.
- Refer to the illustrations on the next 2 pages concerning connectors utilizing the activation prevention mechanism and its release method.

CAUTION:

Never release the activation prevention mechanism on the squib connector.

NOTICE:

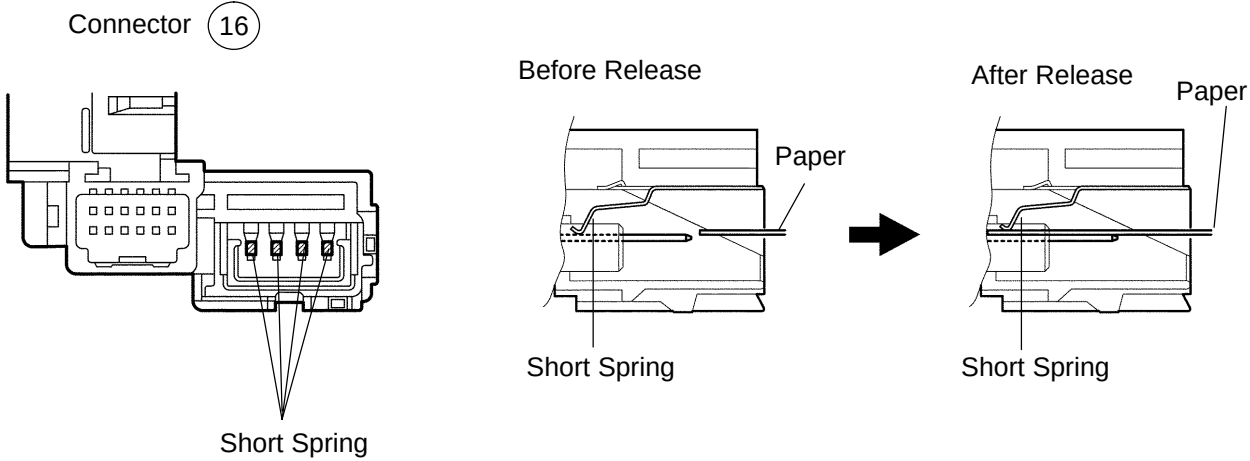
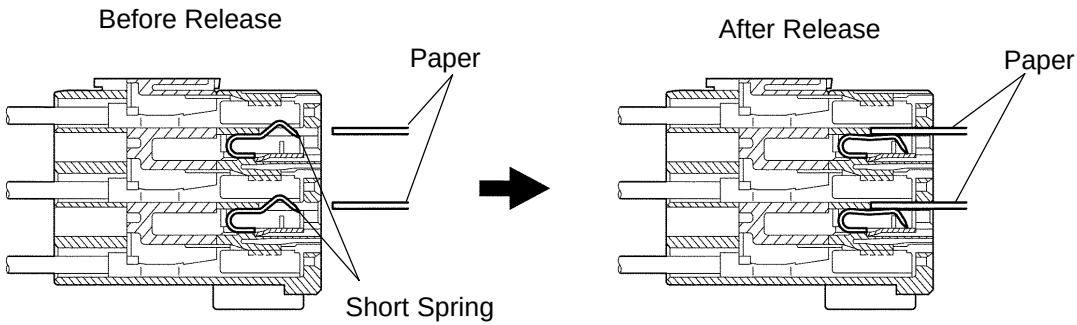
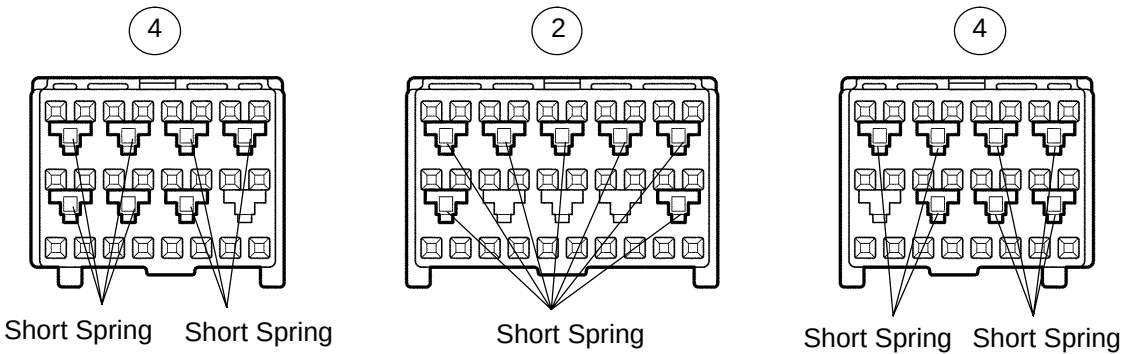
- Do not release the activation prevention mechanism unless specifically directed by the troubleshooting procedure.
- To prevent the terminal and the short spring from being damaged, always use a piece of paper with the same thickness as the male terminal.



H44052

H44565

Airbag Sensor Assy Center Connector



DATA LIST/ACTIVE TEST

HINT:

By accessing the DATA LIST displayed by the hand-held tester, you can perform such functions as reading the values of switches and sensors without removing any parts. Reading the DATA LIST is the first step of troubleshooting and is one method to shorten labor time.

- (d) Connect the hand-held tester to the DLC3.
- (e) Turn the power switch on (IG).
- (f) Following the display on the tester screen, read the "DATA LIST".

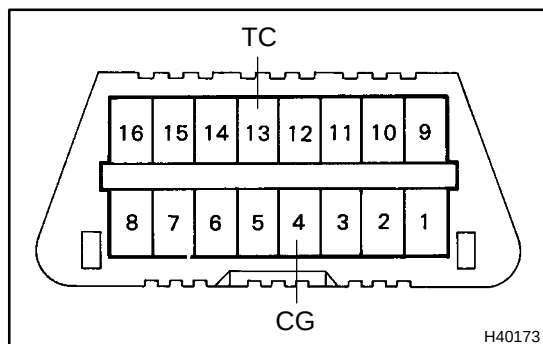
1. DATA LIST FOR AIRBAG ECU ASSY

[System Selection Screen]

"1: DIAGNOSIS" – "1: OBD/MOBD" – "MODEL YEAR" – "MODEL SELECTION = PRIUS" – Select the option parts – "8: SRS AIRBAG" – "1: DATA LIST" – "ALL"

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
D SEAT POSITION	Seat position (Driver side)/ FORWARD: Seat position forward BKWARD: Seat position back FAIL: Failure detected	FORWARD/BKWARD	–
PASSENGER DETECT	Passenger detection/ NG: Indeterminate data NONE: Seat vacant DETECT: Seat occupied FAIL: Failure detected	NG/NONE/DETECT	–
D BUCKLE SW	Buckle switch (Driver side)/ ON: Seat belt fastened OFF: Seat belt not fas- tened NG: In determinate data	ON/OFF	–
P BUCKLE SW	Buckle switch (Passenger side)/ ON: Seat belt fastened OFF: Seat belt not fas- tened NG: In determinate data	ON/OFF	–
DISPLAY TYPE	Display type identification information/ LR: Display indicated by LH/RH DP: Display indicated by Driver/Passenger	DP	–
#CODES	Number of past DTC re- corded/ Min.: 0, Max.: 255	0	–

DTC CHECK/CLEAR



1. DTC CHECK (USING SST CHECK WIRE)

- (a) Check the DTCs (Present trouble code).
 - (1) Turn the power switch on (IG), and wait for approximately 60 seconds.
 - (2) Using SST, connect terminals TC and CG of the DLC3.

SST 09843-18040

NOTICE:

Connect the terminals to the correct positions to avoid a malfunction.

- (b) Check the DTCs (Past trouble code).
 - (1) Using SST, connect terminals TC and CG of the DLC3.

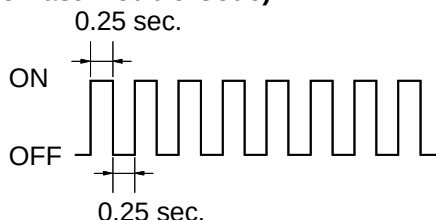
SST 09843-18040

NOTICE:

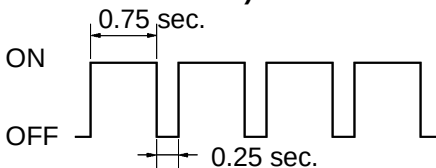
Connect the terminals to the correct positions to avoid a malfunction.

- (2) Turn the power switch on (IG), and wait for approximately 60 seconds.

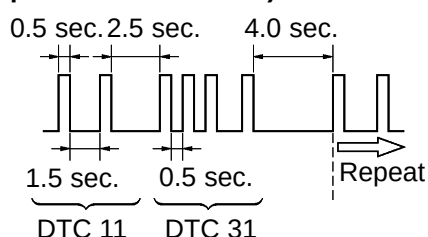
Normal System Code (w/o Past Trouble Code)



Normal System Code (w/ Past Trouble Code)



Trouble Code (Example Codes 11 and 31)



N

H13050

- (c) Read the DTCs.
 - (1) Read the blinking patterns of the DTCs. Examples, the blinking patterns for the normal system code and trouble codes 11 and 31 are shown in the illustration to the left.
 - Normal system code indication (w/o past trouble code)
The light blinks twice per second.
 - Normal system code indication (w/ past trouble code)
When the past trouble code is stored in the airbag ECU assy, the light blinks only once per second.
 - Trouble code indication
The first blinking indicates the first DTC. The second blinking occurs after a 1.5-second pause.

If there are more than 1 code, there will be a 2.5-second pause between each code. After all codes are shown, there will be a 4.0-second pause, and they all will be repeated.

HINT:

- If 2 or more malfunctions are found, the indication begins with the smaller numbered code.
- If DTCs are indicated without connecting the terminals, proceed to the "TC Terminal Circuit" on page 05-1656.

2. DTC CLEAR (USING SST CHECK WIRE)

(a) Clear the DTCs.

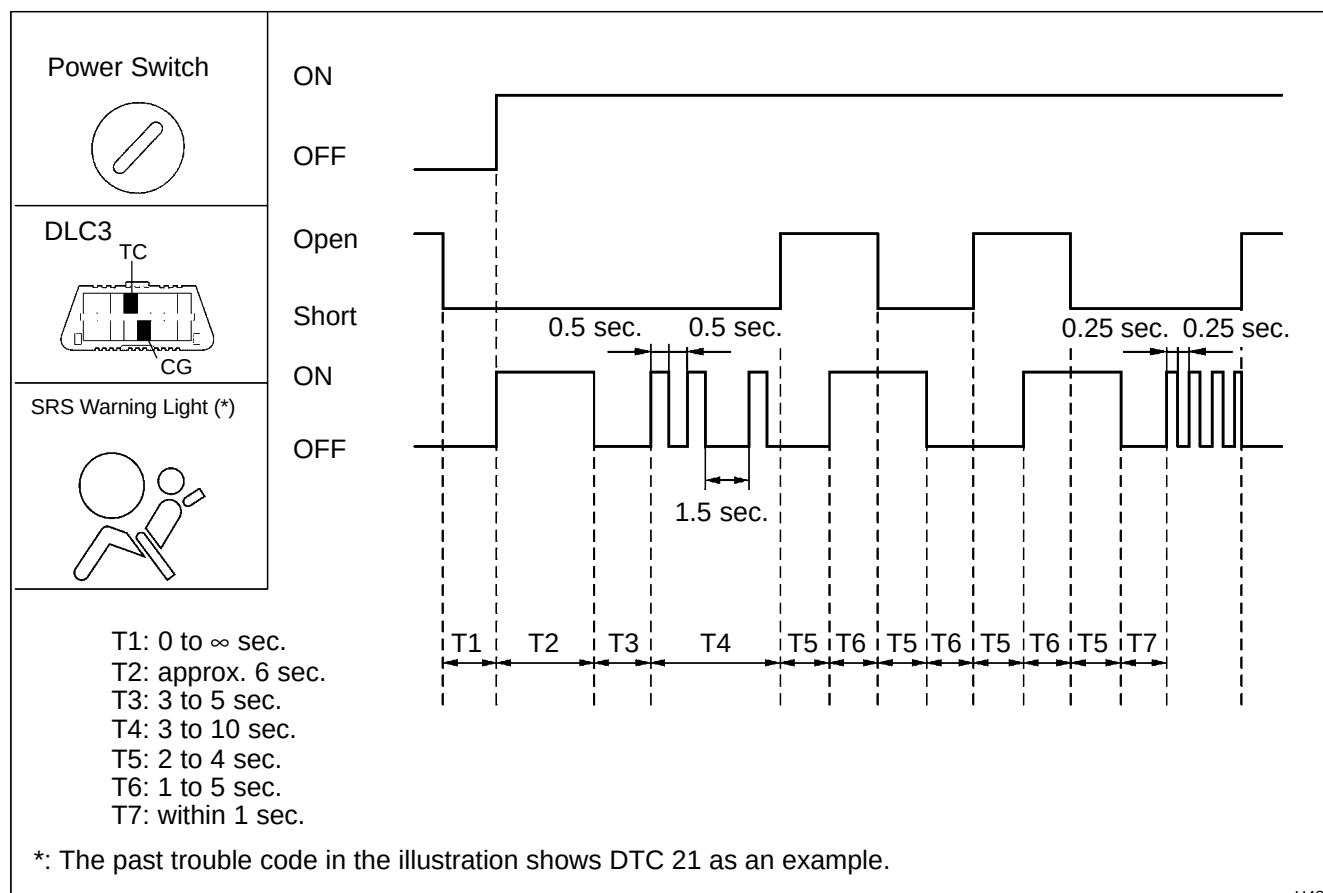
- (1) When the power switch is turned off, the DTCs are cleared.

HINT:

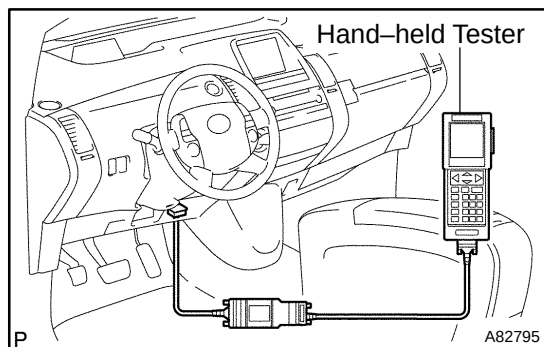
Depending on the DTC, the code may not be cleared by turning off the power switch. In this case, proceed to the next procedure.

- (2) Using SST, connect terminals TC and CG of the DLC3, and then turn the power switch on (IG).
SST 09843-18040
- (3) Disconnect terminal TC of the DLC3 within 3 to 10 seconds after the DTCs are output, and check if the SRS warning light comes on after 3 seconds.
- (4) Within 2 to 4 seconds after the SRS warning light comes on, connect terminals TC and CG of the DLC3.
- (5) The SRS warning light should go off within 2 to 4 seconds after connecting terminals TC and CG of the DLC3. Then, disconnect terminal TC within 2 to 4 seconds after the SRS warning light goes off.
- (6) The SRS warning light comes on again within 2 to 4 seconds after disconnecting terminal TC. Then, reconnect terminals TC and CG within 2 to 4 seconds after the SRS warning light comes on, connect terminals TC and CG of the DLC3.
- (7) Check if the SRS warning light goes off 2 to 4 seconds after connecting terminals TC and CG of the DLC3. Also check if the normal system code is output within 1 second after the SRS warning light goes off.

If DTCs are not cleared, repeat this procedure until the codes are cleared.



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**3. DTC CHECK (USING HAND-HELD TESTER)****(a) Check the DTCs.**

- (1) Connect the hand-held tester to the DLC3.
- (2) Turn the power switch on (IG).
- (3) Check the DTCs by following the prompts on the tester screen.

HINT:

Refer to the hand-held tester operator's manual for further details.

(b) Clear the DTCs.

- (1) Connect the hand-held tester to the DLC3.
- (2) Turn the power switch on (IG).
- (3) Clear the DTCs by following the prompts on the tester screen.

HINT:

Refer to the hand-held tester operator's manual for further details.

SOURCE VOLTAGE DROP

CIRCUIT DESCRIPTION

The SRS is equipped with a voltage-increase circuit (DC-DC converter) in the airbag ECU Assy in case the source voltage drops.

When the battery voltage drops, the voltage-increase circuit (DC-DC converter) functions to increase the voltage of the SRS to normal voltage.

A malfunction in this circuit is displayed differently from other codes. The source voltage drop is indicated when the SRS warning light comes on without showing any DTCs.

A malfunction in this circuit is not recorded in the airbag ECU Assy. The SRS warning light automatically goes off when the source voltage returns to normal.

DTC No.	Diagnosis
(Normal)	Source voltage drop

INSPECTION PROCEDURE

1 PREPARE FOR INSPECTION

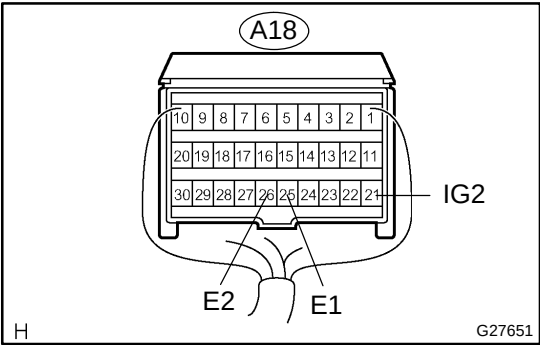
CAUTION:

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.



2 CHECK SOURCE VOLTAGE



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

Standard:

Tester connection	Condition	Specified condition
A18-21 (IG2) – Body ground	Power switch is on (IG)	10 to 14 V
A18-25 (E1) – Body ground	Always	Below 1 Ω
A18-26 (E2) – Body ground	Always	Below 1 Ω

NG

REPAIR OR REPLACE HARNESS BETWEEN BATTERY AND AIRBAG SENSOR ASSY CENTER, AND CHARGING SYSTEM



3 CHECK SRS WARNING LIGHT TURN OFF

- (a) Connect the connectors to the airbag ECU Assy.
- (b) Connect the connectors to the horn button Assy.
- (c) Connect the connectors to the front passenger airbag Assy.
- (d) Connect the connector to the front seat airbag Assy LH.
- (e) Connect the connector to the front seat airbag Assy RH.
- (f) Connect the connector to the curtain shield airbag Assy LH.
- (g) Connect the connector to the curtain shield airbag Assy RH.
- (h) Connect the connector to the front seat outer belt Assy LH.
- (i) Connect the connector to the front seat outer belt Assy RH.
- (j) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (k) Turn the power switch on (IG), and wait for at least 6 seconds.
- (l) Operate all components of the electrical system (defogger, wiper, headlamp, heater blower, etc.) and check that the SRS warning light operation.

OK:

When the ignition switch is turned to the ON position, the SRS warning light comes on for approximately 6 seconds and then it goes off.

NG

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

OK**END**

SRS WARNING LIGHT CIRCUIT MALFUNCTION (REMAINS ON WHEN DTC IS NOT OUTPUT)

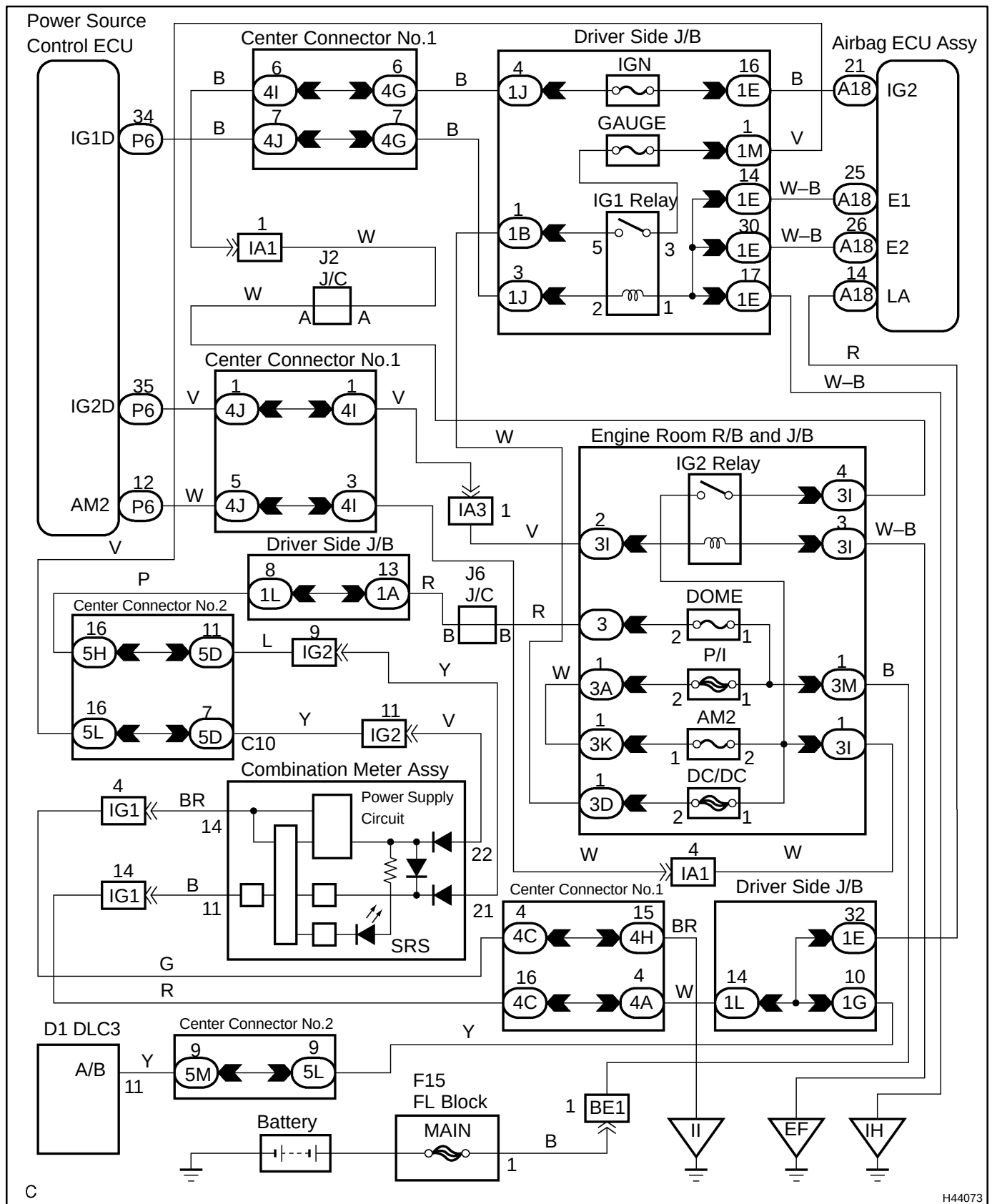
CIRCUIT DESCRIPTION

The SRS warning light is located on the combination meter assy.

When the SRS is normal, the SRS warning light comes on for approximately 6 seconds after the power switch is turned from off to on (IG), and then goes off automatically.

If there is a malfunction in the SRS, the SRS warning light comes on to inform the driver of a problem.

WIRING DIAGRAM



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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 SOURCE VOLTAGE

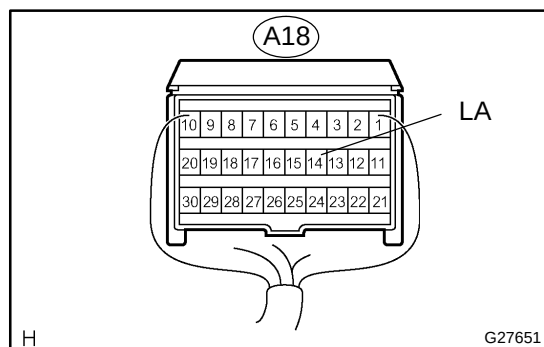
- (a) Measure the voltage of the battery.
Standard: 11 to 14 V

NG

REPLACE BATTERY

OK

2 CHECK WIRE HARNESS (AIRBAG ECU ASSY – BODY GROUND)



- (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
A18-14 (LA) – Body ground	Power switch is on (IG)	Below 1 V

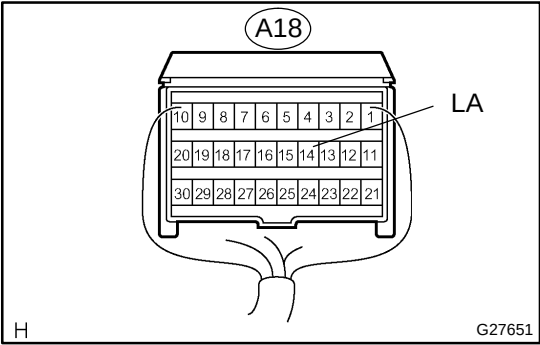
NG

REPAIR OR REPLACE WIRE HARNESS

OK

3

CHECK WIRE HARNESS (AIRBAG ECU ASSY – BODY GROUND)



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

Standard:

Tester connection	Condition	Specified condition
A18–14 (LA) – Body ground	Always	1 MΩ or Higher

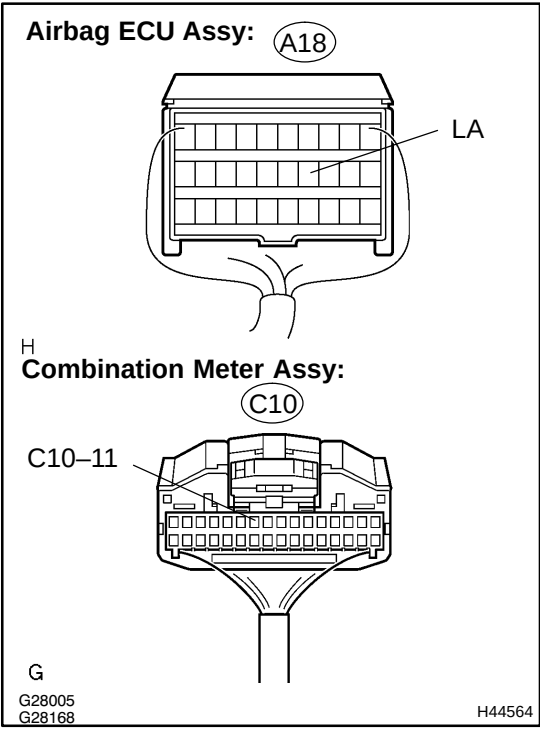
NG

REPAIR OR REPLACE WIRE HARNESS

OK

4

CHECK WIRE HARNESS (AIRBAG ECU ASSY – COMBINATION METER ASSY)



- (a) Disconnect the connector from the combination meter assy.
- (b) Measure the resistance according to the value(s) in the table below.

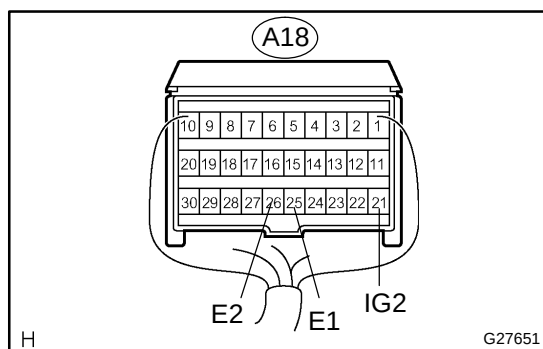
Standard:

Tester connection	Condition	Specified condition
A18–14 (LA) – C10–11	Always	Below 1 Ω

NG

REPAIR OR REPLACE WIRE HARNESS

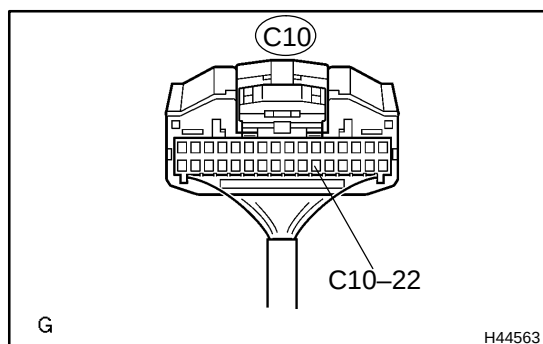
OK

5 CHECK WIRE HARNESS

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

Standard:

Tester connection	Condition	Specified condition
A18–21 (IG2) – Body ground	Power switch is on (IG)	10 to 14 V
A18–25 (E1) – Body ground	Always	Below 1 Ω
A18–26 (E2) – Body ground	Always	Below 1 Ω

NG**REPAIR OR REPLACE WIRE HARNESS****OK****6 CHECK COMBINATION METER ASSY**

- Turn the power switch off.
- Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the airbag ECU assy.
- Connect the connector to the combination meter assy.
- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch of (IG).
- Measure the voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
C10–11 – Body ground	Power switch is on (IG)	8 to 14 V

NG**GO TO COMBINATION METER SYSTEM
(SEE PAGE 05-1975)****OK****REPLACE AIR BAG ECU ASSY (SEE PAGE 60-54)**

SRS WARNING LIGHT CIRCUIT MALFUNCTION (DOES NOT COME ON WHEN THE POWER SWITCH IS TURNED ON (IG))

CIRCUIT DESCRIPTION

The SRS warning light is located on the combination meter assy.

When the SRS is normal, the SRS warning light comes on for approximately 6 seconds after the power switch is turned from off to on (IG), and then goes off automatically.

If there is a malfunction in the SRS, the SRS warning light comes on to inform the driver of a problem.

WIRING DIAGRAM

See page [05-1649](#).

INSPECTION PROCEDURE

1 CHECK BATTERY

- (a) Measure the voltage of the battery.

Standard: 11 to 14 V

NG

REPLACE BATTERY

OK

2 CHECK COMBINATION METER ASSY

- (a) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(b) Disconnect the connectors from the airbag ECU assy.
(c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the power switch on (IG).
(e) Check the SRS warning light operation.

OK:

The SRS warning light does not come on.

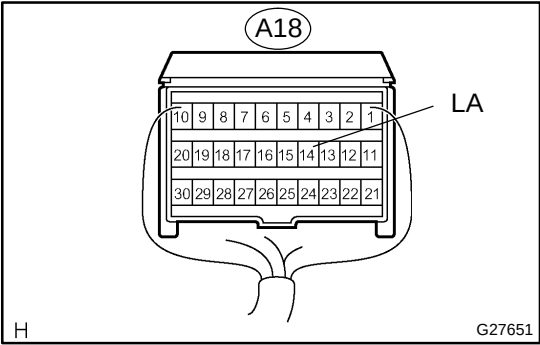
NG

REPLACE AIR BAG ECU ASSY
(SEE PAGE [60-54](#))

OK

3

CHECK WIRE HARNESS (AIRBAG ECU ASSY – COMBINATION METER ASSY)



- (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 connector from the combination meter assy.
- (d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (e) Measure the voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A18–14 (LA) – Body ground	Power switch is on (IG)	Below 1 V

NG

REPAIR OR REPLACE WIRE HARNESS

OK

REPLACE COMBINATION METER ASSY (SEE PAGE 71-7)

SYSTEM DESCRIPTION

1. SES AIRBAG SYSTEM OUTLINE

(a) FRONTAL COLLISION

- (1) The driver and front passenger airbags were designed to supplement seat belts in the event of a front collision in order to help reduce shock to the head and chest of the driver and front passenger.
- (2) Frontal collisions are detected by the airbag ECU Assy and two front airbag sensors. The driver and front passenger airbags and the seat belt pretensioner then operate simultaneously.
- (3) Electrical deceleration sensors are built into the two front airbag sensors in the engine compartment in order to detect the severity of the impact during the initial stage of the collision. The deployment of the driver and front passenger airbags is controlled in two stages according to the severity of the impact.

(b) SIDE COLLISION

- (1) The front seat airbag Assy and curtain shield airbag Assy were designed to help reduce shock to the driver, front passenger and rear outer passenger. The curtain shield airbag Assy was designed to help reduce shock to the front and rear passengers in the event of a side collision.
- (2) Side collisions are detected by the side airbag sensor Assy installed in the bottom of the center pillar and the airbag sensor rear installed in the bottom of the rear pillar. Front side collisions are detected by the side airbag sensor Assy, causing the front seat airbag Assy and curtain shield airbag Assy to deploy simultaneously. Rear side collisions are detected by the airbag sensor rear to deploy only the curtain shield airbag Assy.

2. CONSTRUCTION AND OPERATION

(a) AIRBAG SENSOR FRONT

- (1) The front airbag sensor Assy's are installed on the right and left side members.
- (2) The deceleration sensor is built into the airbag sensor front and distortion that is created in the sensor is converted into an electric signal based on the vehicle deceleration rate during a frontal collision. Accordingly, the extent of the initial collision can be detected in detail.

(b) SIDE AIRBAG SENSOR ASSY

- (1) The side airbag sensor Assy's are installed on the right and left center pillars.
- (2) The side airbag sensor Assy consists of the deceleration sensor, ignition control circuit, and diagnostic circuit. The side airbag sensor Assy receives signals from the deceleration sensor and determines whether the front seat airbag Assy and curtain shield airbag Assy should be activated, and diagnoses system malfunctions simultaneously.

(c) AIRBAG SENSOR REAR

- (1) The airbag sensor rear is installed on the bottom of the right and left rear pillars respectively.
- (2) The deceleration sensor is built into the airbag sensor rear and the distortion that is created in the sensor is converted into an electric signal based on the vehicle deceleration rate during a rear side collision.

(d) AIRBAG ECU ASSY

(1) General

- The airbag ECU assy is installed on the center floor under the instrument panel.
- The airbag ECU assy consists of the deceleration sensor, safing sensor, electrical safing sensor, ignition control circuit and diagnostic circuit.
- The airbag ECU assy receives signals from the safing sensor built into the airbag ECU assy and from the deceleration sensor and safing sensor built into the airbag sensor front. The the airbag ECU assy determines whether or not the driver and front passenger airbags and the seat belt pretensioner should be activated, and diagnoses system malfunctions.
- The airbag ECU assy causes the front seat airbag assy and the curtain shield airbag assy to deploy when receiving signals from the deceleration sensor and the safing sensor built into the side airbag sensor assy.
- The airbag ECU assy receives signals from the deceleration sensors and the electrical safing sensors built into the airbag ECU assy and the airbag sensor rear, and determines whether or not the curtain shield airbag assy should be activated, and then diagnoses system malfunctions.
- The airbag ECU assy is operable using check mode, which can detect and output DTCs. If the mal function does not recur during troubleshooting, joggling each connector or driving on a city or rough road with the airbag ECU assy in check mode as a simulation method makes it possible to obtain more accurate information.

(2) Deceleration sensor and ignition control circuit

- The deceleration sensor is built into the airbag ECU assy, and the distortion created during a frontal or rear side collision based on the deceleration of the vehicle is converted into an electric signal.
- The ignition control circuit performs calculations based on the signal output from the deceleration sensors of the airbag ECU assy and airbag sensor front. If the calculated values are greater than the specified values, the airbag deploy.

(3) Safing sensor

- The safing sensor is built into the airbag ECU assy. During a frontal collision, the sensor turns on and outputs an ON signal to the airbag ECU assy if a deceleration rate greater than the specified value is applied to the safing sensor.

(4) Electronic safing sensor

- The electronic safing sensor is built into the airbag ECU assy. During a rear side collision, the sensor turns on and outputs an ON signal to the airbag ECU assy if a deceleration rate greater than the specified value is applied to the electronic safing sensor.

(5) Back-up power source

- The back-up power source consists of a condenser and a DC-DC converter. When the power system does not function during a collision, the condenser discharges and supplies electric power to the system. The DC-DC converter operates as a boosting transformer when the battery voltage falls below a predetermined level.

(6) Diagnostic circuit

- This circuit constantly diagnoses the system malfunctions. When a malfunction is detected, it lights up the SRS warning light on the combination meter assy to inform the driver.

(7) Memory circuit

- When a malfunction is detected in the diagnostic circuit, it is coded and stored in the memory circuit.

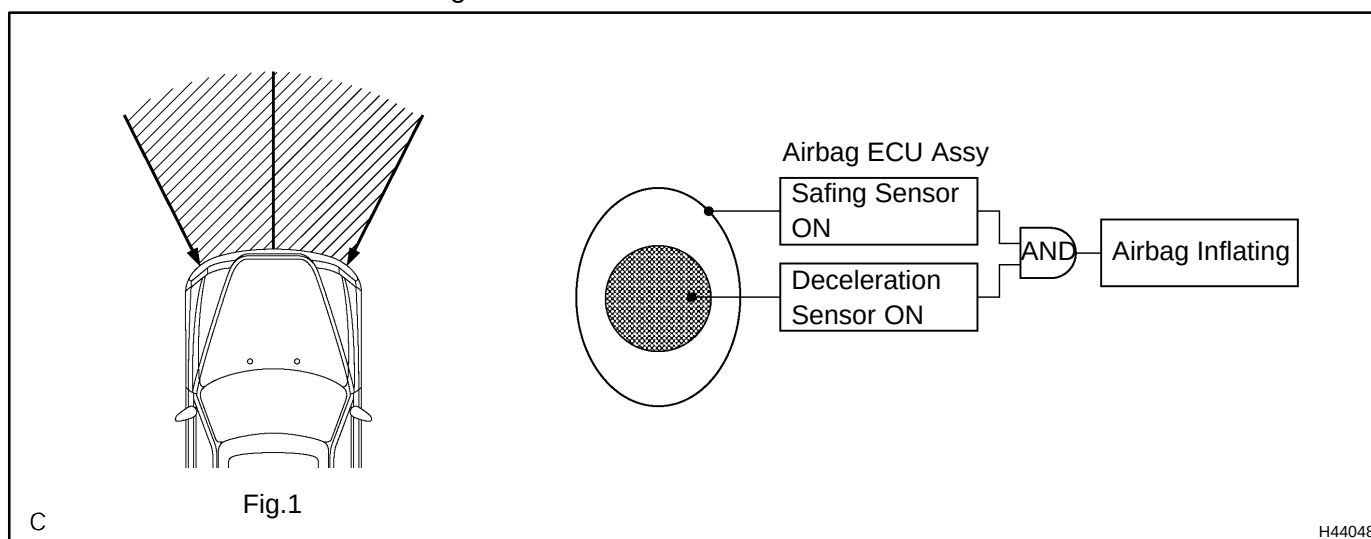
(e) SRS WARNING LIGHT

- (1) The SRS warning light is located on the combination meter assy. The SRS warning light informs the driver of detected malfunctions in the diagnostic circuit of the airbag ECU assy or the SRS airbag system. Under normal operating conditions when the power switch is turned on, the SRS warning light comes on for approximately 6 seconds and then goes off.

3. IGNITION JUDGEMENT AND CONDITIONS

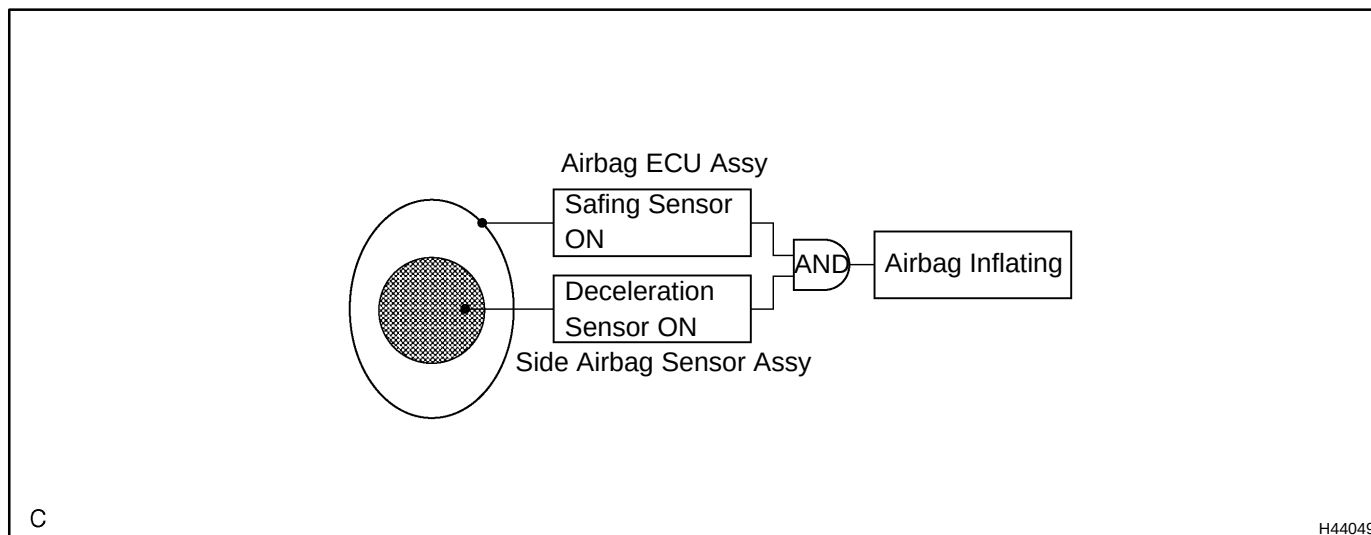
(a) FRONTAL COLLISION

- (1) When the vehicle collides in the hatched area (Fig.1) and shock is greater than the specified value, the driver and front passenger airbags are activated automatically. The deceleration sensor of the airbag ECU assy determines whether or not ignition is necessary based on signals from the deceleration sensor of the airbag sensor front.
- (2) The safing sensor of the airbag ECU assy was designed to be turned on at a smaller deceleration rate than the deceleration sensor. If the safing sensor and the deceleration sensor turn on simultaneously, current flows to the squib and deploys the driver and front passenger airbags as shown in illustration Fig.2.



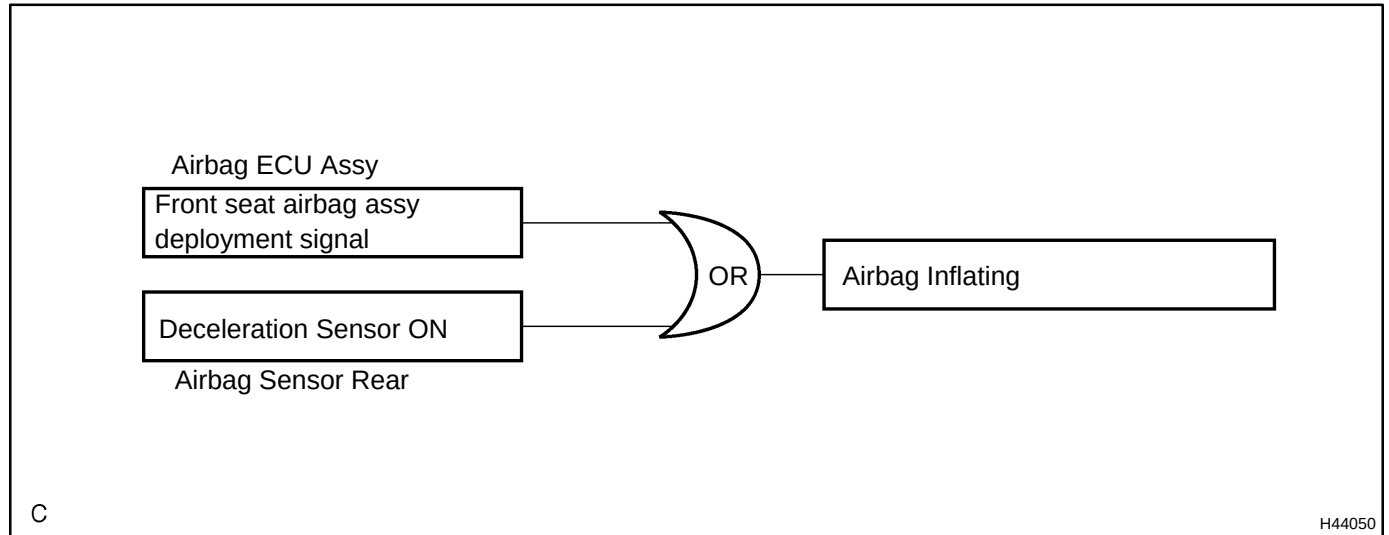
(b) FRONT SIDE COLLISION

- (1) The safing sensor of the side airbag sensor assy was designed to be turned on at a smaller deceleration rate than the deceleration sensor of the deceleration sensor. If the safing sensor and the deceleration sensor turn on simultaneously, current flows to the squib and deploys the driver and front passenger side airbags and curtain shield airbag as shown in the illustration below

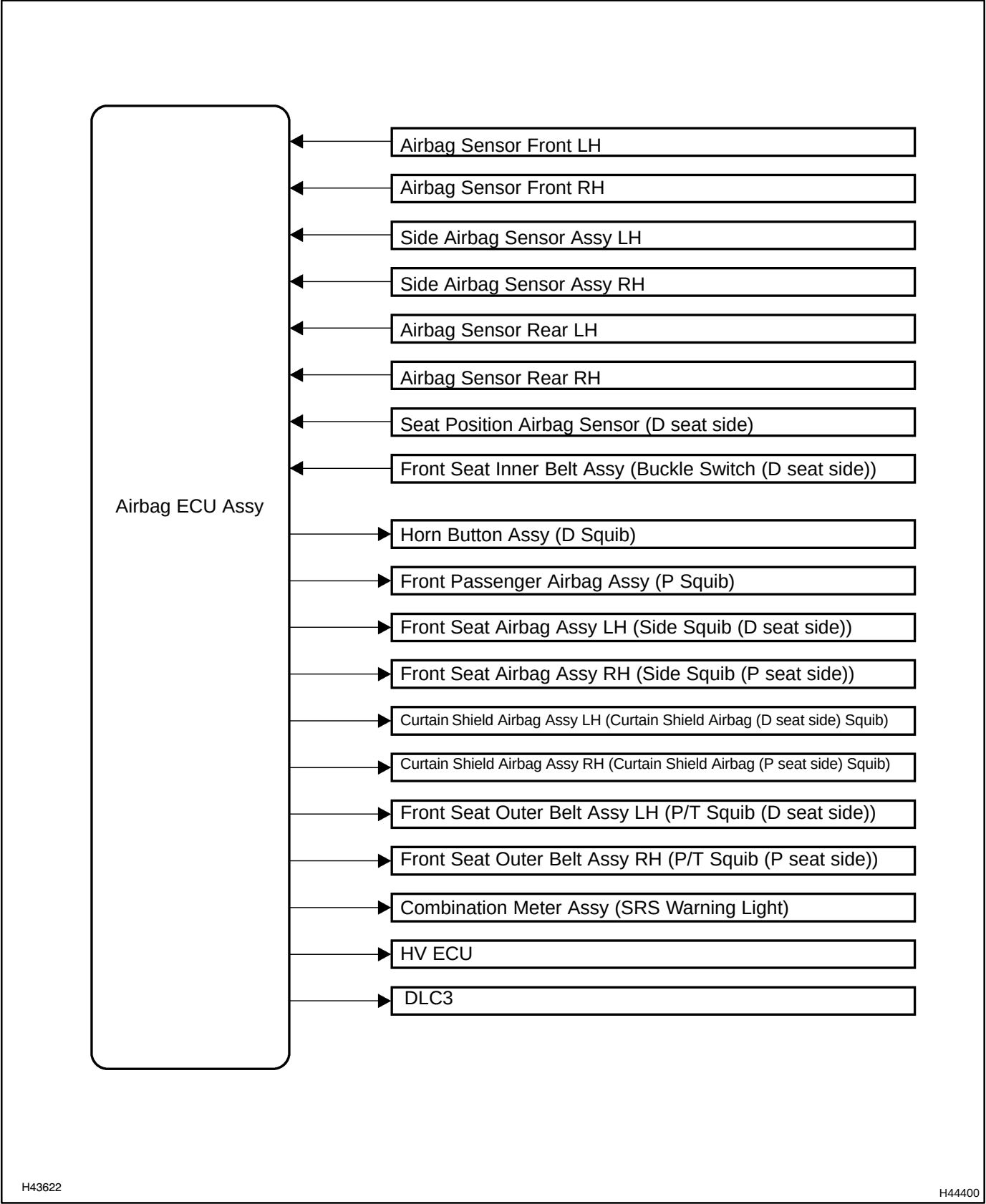


(c) REAR SIDE COLLISION

- (1) The curtain shield airbag deploys if the curtain shield airbag assy receives the ignition signal for the front seat airbag assy or for the curtain shield airbag assy (transmitted from the airbag sensor rear) as shown in the illustration below.



SYSTEM DIAGRAM



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1820

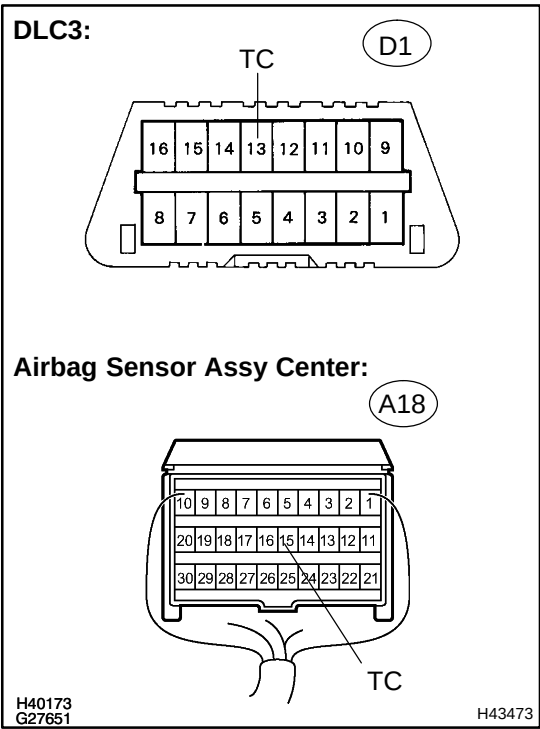
INSPECTION PROCEDURE

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 WIRE HARNESS (DLC3 – AIRBAG ECU ASSY)



- (a) Measure the resistance according to the value(s) in the table below.

Standard:

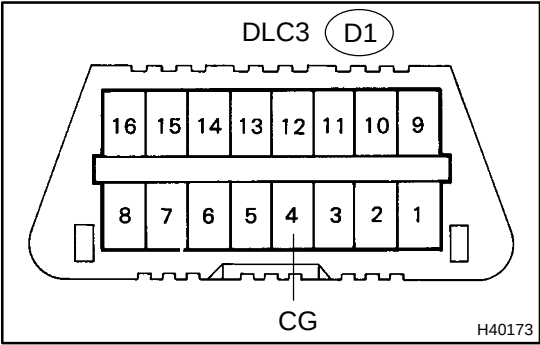
Tester connection	Condition	Specified condition
D1-13 (TC) – A18-15 (TC)	Always	Below 1 Ω

NG REPAIR OR REPLACE WIRE HARNESS (TC of DLC3 – TC of AIRBAG ECU ASSY)

OK

2

CHECK WIRE HARNESS (CG of DLC3 – BODY GROUND)



- (a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
D1-4 (CG) – Body ground	Always	Below 1 Ω

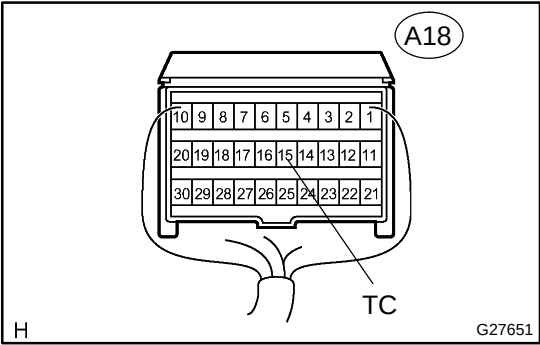
NG

REPAIR OR REPLACE WIRE HARNESS (CG of DLC3 – BODY GROUND)

OK

3

CHECK WIRE HARNESS (TC of AIRBAG ECU ASSY – BODY GROUND)



- (a) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A18-15 (TC) – Body ground	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE WIRE HARNESS OR EACH ECU

OK

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

CUSTOMER PROBLEM ANALYSIS CHECK

Supplemental Restraint System Check Sheet

 Inspector's
Name

Customer's Name		VIN	
		Production Date	
		Licence Plate No.	
Date Vehicle Brought In		Odometer Reading	km Miles

Date Problem Occurred	
Weather	☐ Fine ☐ Cloudy ☐ Rainy ☐ Snowy ☐ Other
Temperature	Approx.

Vehicle Operation	☐ Starting ☐ Idling ☐ Driving [☐ Constant speed ☐ Acceleration ☐ Deceleration ☐ Other]
Road Condition	
Details of Problem	

Vehicle Inspection, and Repair History Prior to Occurrence of Malfunction (Including Supplemental Restraint System)	
---	--

Diagnostic System Inspection

SRS Warning Light Inspection	1st Time	☐ Remains on ☐ Sometimes comes on ☐ Does not come on
	2nd Time	☐ Remains on ☐ Sometimes comes on ☐ Does not come on
DTC Inspection	1st Time	☐ Normal System Code ☐ Trouble Code [Code.]
	2nd Time	☐ Normal System Code ☐ Trouble Code [Code.]

DIAGNOSTIC TROUBLE CODE CHART

1. DTCS FOR SUPPLEMENTAL RESTRAINT SYSTEM

If a trouble code is displayed during the DTC check, check the circuit listed for the code in the table below (Proceed to the page listed for that circuit).

HINT:

- When the SRS warning light remains on and the DTC output is the normal system code, a voltage source drop is likely to occur. This malfunction is not stored in the memory by the airbag ECU Assy. If the power source voltage returns to normal, the SRS warning light will automatically go off.
- When 2 or more codes are indicated, the code with the lower number appears first.
- If a code is not listed on the display chart, the airbag ECU Assy may have failed.
- In the case of any malfunction concerning an open circuit, short to ground, or short to B+ due to a squib, other trouble codes may not be detected. In this case, repair the malfunction currently indicated and then perform malfunction diagnosis again.
- Mark in the check mode column:
 "○": DTC is corresponding to the check mode.
 "—": DTC is not corresponding to the check mode.

DTC No. (See Page)	Detection Item	Trouble Area	Check Mode	SRS Warning Light
B1000/31 (05-1413)	• Airbag ECU Assy malfunction	• Airbag ECU Assy	—	ON
B1610/13 (05-1421)	• Front airbag sensor RH circuit malfunction	• Airbag front RH sensor • Airbag ECU Assy • Instrument panel wire • Engine room main wire	—	ON
B1615/14 (05-1425)	• Front airbag sensor LH circuit malfunction	• Airbag sensor front LH • Airbag ECU Assy • Instrument panel wire • Engine room main wire	—	ON
B1620/21 (05-1429)	• Side airbag sensor assembly (D seat side) malfunction	• Side airbag sensor Assy LH • Airbag ECU Assy • Floor wire	—	ON
B1625/22 (05-1434)	• Side airbag sensor assembly (P seat side) malfunction	• Side airbag sensor Assy RH • Airbag ECU Assy • Floor wire No.2	—	ON
B1630/23 (05-1439)	• Curtain shield airbag sensor (D seat side) malfunction	• Airbag sensor rear RH • Airbag ECU Assy • Floor wire	—	ON
B1635/24 (05-1444)	• Curtain shield airbag sensor (P seat side) malfunction	• Airbag sensor rear LH • Airbag ECU Assy • Floor wire No.2	—	ON
B1653/35 (05-1449)	• Seat position sensor assembly malfunction	• Seat position airbag sensor • Airbag ECU Assy • Floor wire	—	ON
B1655/37 (05-1455)	• Seat belt buckle switch (D seat side) malfunction	• Front seat inner belt Assy RH • Airbag ECU Assy • Floor wire	—	ON
B1800/51 (05-1461)	• Short in D squib circuit	• Horn button Assy (D squib) • Spiral cable sub-Assy • Airbag ECU Assy • Instrument panel wire	○	ON
B1801/51 (05-1466)	• Open in D squib circuit	• Horn button Assy (D squib) • Spiral cable sub-Assy • Airbag ECU Assy • Instrument panel wire	○	ON

B1802/51 (05–1471)	• Short in D squib circuit (to ground)	• Horn button assy (D squib) • Spiral cable sub–assy • Airbag ECU assy • Instrument panel wire	○	ON
B1803/51 (05–1476)	• Short in D squib circuit (to B+)	• Horn button assy (D squib) • Spiral cable sub–assy • Airbag ECU assy • Instrument panel wire	○	ON
B1805/52 (05–1481)	• Short in P squib circuit	• Front passenger airbag assy (P squib) • Airbag ECU assy • Instrument panel wire • Instrument panel wire No.2	○	ON
B1806/52 (05–1486)	• Open in P squib circuit	• Front passenger airbag assy (P squib) • Airbag ECU assy • Instrument panel wire • Instrument panel wire No.2	○	ON
B1807/52 (05–1491)	• Short in P squib circuit (to ground)	• Front passenger airbag assy (P squib) • Airbag ECU assy • Instrument panel wire • Instrument panel wire No.2	○	ON
B1808/52 (05–1496)	• Short in P squib circuit (to B+)	• Front passenger airbag assy (P squib) • Airbag ECU assy • Instrument panel wire • Instrument panel wire No.2	○	ON
B1810/53 (05–1501)	• Short in D squib (Dual stage – 2nd step) circuit	• Horn button assy (D squib, Dual stage – 2nd step) • Spiral cable sub–assy • Airbag ECU assy • Instrument panel wire	○	ON
B1811/53 (05–1506)	• Open in D squib (Dual stage – 2nd step) circuit	• Horn button assy (D squib, Dual stage – 2nd step) • Spiral cable sub–assy • Airbag ECU assy • Instrument panel wire	○	ON
B1812/53 (05–1511)	• Short in D squib (Dual stage – 2nd step) circuit (to ground)	• Horn button assy (D squib, Dual stage – 2nd step) • Spiral cable sub–assy • Airbag ECU assy • Instrument panel wire	○	ON
B1813/53 (05–1516)	• Short in D squib (Dual stage – 2nd step) circuit (to B+)	• Horn button assy (D squib, Dual stage – 2nd step) • Spiral cable sub–assy • Airbag ECU assy • Instrument panel wire	○	ON
B1815/54 (05–1521)	• Short in P squib (Dual stage – 2nd step) circuit	• Front passenger airbag assy (P squib, Dual stage – 2nd step) • Airbag ECU assy • Instrument panel wire • Instrument panel wire No.2	○	ON
B1816/54 (05–1526)	• Open in P squib (Dual stage – 2nd step) circuit	• Front passenger airbag assy (P squib, Dual stage – 2nd step) • Airbag ECU assy • Instrument panel wire • Instrument panel wire No.2	○	ON
B1817/54 (05–1531)	• Short in P squib (Dual stage – 2nd step) circuit (to ground)	• Front passenger airbag assy (P squib, Dual stage – 2nd step) • Airbag ECU assy • Instrument panel wire • Instrument panel wire No.2	○	ON
B1818/54 (05–1536)	• Short in P squib (Dual stage – 2nd step) circuit (to B+)	• Front passenger airbag assy (P squib, Dual stage – 2nd step) • Airbag ECU assy • Instrument panel wire • Instrument panel wire No.2	○	ON
B1820/55 (05–1541)	• Short in side squib (D seat side) circuit	• Front seat airbag assy LH (Side squib (D seat side)) • Airbag ECU assy • Floor wire • Seat airbag No.1 wire	○	ON

DIAGNOSTICS – SUPPLEMENTAL RESTRAINT SYSTEM

B1821/55 (05-1546)	• Open in side squib (D seat side) circuit	• Front seat airbag assy LH (Side squib (D seat side)) • Airbag ECU assy • Floor wire • Seat airbag No.1 wire	○	ON
B1822/55 (05-1551)	• Short in side squib (D seat side) circuit (to ground)	• Front seat airbag assy LH (Side squib (D seat side)) • Airbag ECU assy • Floor wire • Seat airbag No.1 wire	○	ON
B1823/55 (05-1556)	• Short in side squib (D seat side) circuit (to B+)	• Front seat airbag assy LH (Side squib (D seat side)) • Airbag ECU assy • Floor wire • Seat airbag No.1 wire	○	ON
B1825/56 (05-1561)	• Short in side squib (P seat side) circuit	• Front seat airbag assy RH (Side squib (P seat side)) • Airbag ECU assy • Floor wire No.2 • Seat airbag No.2 wire	○	ON
B1826/56 (05-1566)	• Open in side squib (P seat side) circuit	• Front seat airbag assy RH (Side squib (P seat side)) • Airbag ECU assy • Floor wire No.2 • Seat airbag No.2 wire	○	ON
B1827/56 (05-1571)	• Short in side squib (P seat side) circuit (to ground)	• Front seat airbag assy RH (Side squib (P seat side)) • Airbag ECU assy • Floor wire No.2 • Seat airbag No.2 wire	○	ON
B1828/56 (05-1576)	• Short in side squib (P seat side) circuit (to B+)	• Front seat airbag assy RH (Side squib (P seat side)) • Airbag ECU assy • Floor wire No.2 • Seat airbag No.2 wire	○	ON
B1830/57 (05-1581)	• Short in curtain shield airbag (D seat side) squib circuit	• Curtain shield airbag assy LH (curtain shield airbag (D seat side) squib) • Airbag ECU assy • Floor wire	○	ON
B1831/57 (05-1585)	• Open in curtain shield airbag (D seat side) squib circuit	• Curtain shield airbag assy LH (curtain shield airbag (D seat side) squib) • Airbag ECU assy • Floor wire	○	ON
B1832/57 (05-1589)	• Short in curtain shield airbag (D seat side) squib circuit (to ground)	• Curtain shield airbag assy LH (curtain shield airbag (D seat side) squib) • Airbag ECU assy • Floor wire	○	ON
B1833/57 (05-1593)	• Short in curtain shield airbag (D seat side) squib circuit (to B+)	• Curtain shield airbag assy LH (curtain shield airbag (D seat side) squib) • Airbag ECU assy • Floor wire	○	ON
B1835/58 (05-1597)	• Short in curtain shield airbag (P seat side) squib circuit	• Curtain shield airbag assy RH (curtain shield airbag (P seat side) squib) • Airbag ECU assy • Floor wire No.2	○	ON
B1836/58 (05-1601)	• Open in curtain shield airbag (P seat side) squib circuit	• Curtain shield airbag assy RH (curtain shield airbag (P seat side) squib) • Airbag ECU assy • Floor wire No.2	○	ON
B1837/58 (05-1605)	• Short in curtain shield airbag (P seat side) squib circuit (to ground)	• Curtain shield airbag assy RH (curtain shield airbag (P seat side) squib) • Airbag ECU assy • Floor wire No.2	○	ON
B1838/58 (05-1609)	• Short in curtain shield airbag (P seat side) squib circuit (to B+)	• Curtain shield airbag assy RH (curtain shield airbag (P seat side) squib) • Airbag ECU assy • Floor wire No.2	○	ON

B1900/73 (05-1613)	• Short in P/T squib (D seat side) circuit	• Front seat outer belt assy LH (P/T squib (D seat side)) • Airbag ECU assy • Floor wire	○	ON
B1901/73 (05-1617)	• Open in P/T squib (D seat side) circuit	• Front seat outer belt assy LH (P/T squib (D seat side)) • Airbag ECU assy • Floor wire	○	ON
B1902/73 (05-1621)	• Short in P/T squib (D seat side) circuit (to ground)	• Front seat outer belt assy LH (P/T squib (D seat side)) • Airbag ECU assy • Floor wire	○	ON
B1903/73 (05-1625)	• Short in P/T squib (D seat side) circuit (to B+)	• Front seat outer belt assy LH (P/T squib (D seat side)) • Airbag ECU assy • Floor wire	○	ON
B1905/74 (05-1629)	• Short in P/T squib (P seat side) circuit	• Front seat outer belt assy RH (P/T squib (P seat side)) • Airbag ECU assy • Floor wire No.2	○	ON
B1906/74 (05-1633)	• Open in P/T squib (P seat side) circuit	• Front seat outer belt assy RH (P/T squib (P seat side)) • Airbag ECU assy • Floor wire No.2	○	ON
B1907/74 (05-1637)	• Short in P/T squib (P seat side) circuit (to ground)	• Front seat outer belt assy RH (P/T squib (P seat side)) • Airbag ECU assy • Floor wire No.2	○	ON
B1908/74 (05-1641)	• Short in P/T squib (P seat side) circuit (to B+)	• Front seat outer belt assy RH (P/T squib (P seat side)) • Airbag ECU assy • Floor wire No.2	○	ON
Normal (05-1645)	• Voltage source drop	• Battery • Airbag ECU assy	–	ON
Normal	• System normal	–	–	OFF

HOW TO PROCEED WITH TROUBLESHOOTING

The hand-held tester can be used in steps 3, 4, 6, 9, 10 and 11.

1

VEHICLE BROUGHT TO WORKSHOP



2

CUSTOMER PROBLEM ANALYSIS (SEE PAGE 05-1393)

(a) Confirm problem symptoms.



3

CHECK MULTIPLEX COMMUNICATION SYSTEM (SEE PAGE 05-2549)

(a) Check for the DTC outputs.

DTC IS OUTPUT: CHECK MULTIPLEX COMMUNICATION CIRCUIT (SEE PAGE 05-2549)

DTC IS NOT OUTPUT: Go to step 4

4

CHECK CAN COMMUNICATION SYSTEM (SEE PAGE 05-2619)

(a) Check for the DTC outputs.

DTC IS OUTPUT: CHECK CAN COMMUNICATION CIRCUIT (SEE PAGE 05-2619)

DTC IS NOT OUTPUT: Go to step 5

5

WARNING LIGHT CHECK (SEE PAGE 05-1397)



6

CHECK DTC (Present and Past DTCs) (SEE PAGE 05-1402)

DTC IS OUTPUT (Including Normal system code): Go to step 7

DTC IS NOT OUTPUT: PROBLEM SYMPTOMS TABLE (SEE PAGE 05-1394)

7

DTC CHART (SEE PAGE 05-1409)



8

CIRCUIT INSPECTION (SEE PAGE 05-1413 to 05-1645)



9	REPAIR
---	--------



10	CLEAR DTCs (Present and Past DTC) (SEE PAGE 05-1402)
----	--



11	CHECK DTC (Present and Past DTCs) (SEE PAGE 05-1402)
----	--

➤	DTC IS NOT OUTPUT: Go to step 12
---	----------------------------------

➤	DTC IS OUTPUT: Go to step 7
---	-----------------------------

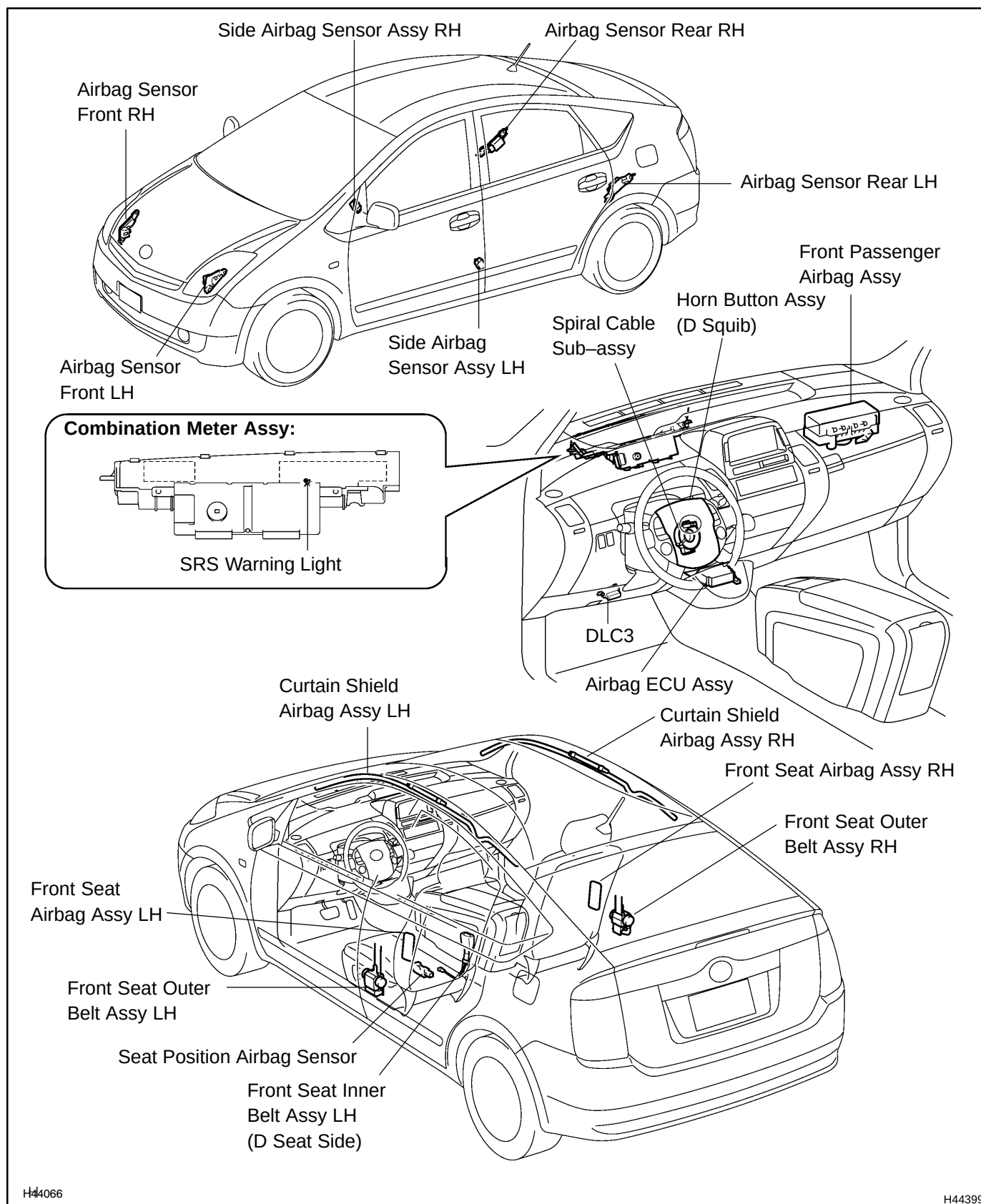
12	CONFIRMATION TEST
----	-------------------



END

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LOCATION



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SUPPLEMENTAL RESTRAINT SYSTEM

05IX5-01

PRECAUTION

NOTICE:

When disconnecting the negative (–) battery terminal, initialize the following system after the terminal is reconnected.

System Name	See Page
Power Window Control System	01-28

NOTICE:

- When the warning lamp is illuminated or the battery has been disconnected and reconnected, pressing the power switch may not start the system on the first try. If so, press the power switch again.
- With the power switch's power mode changed to ON (IG), disconnect the battery. If the key is not in the key slot during reconnection, DTC B2799 may be output.

1. HANDLING PRECAUTIONS FOR AIRBAG SENSOR

HINT:

The airbag sensors include the airbag ECU assy, airbag sensor front LH, airbag sensor front RH, side airbag sensor assy LH, side airbag sensor assy RH, airbag sensor rear LH, airbag sensor rear RH and seat position airbag sensor.

- (a) Make sure that the power switch is off and wait at least 90 seconds after disconnecting the negative (–) terminal cable of the battery when performing the following.
 - (1) Replacement of the airbag sensors
 - (2) Adjustment of the front or rear door a vehicle equipped with a front seat airbag and curtain shield airbag
- (b) When connecting or disconnecting the connectors, ensure that the airbag sensors have already been installed in the vehicle.
- (c) Do not use airbag sensors that have been dropped during the operation or transportation.
- (d) When installing the airbag sensors, ensure that they are affixed using the specified torque.
- (e) Do not disassemble the airbag sensors.

PROBLEM SYMPTOMS TABLE

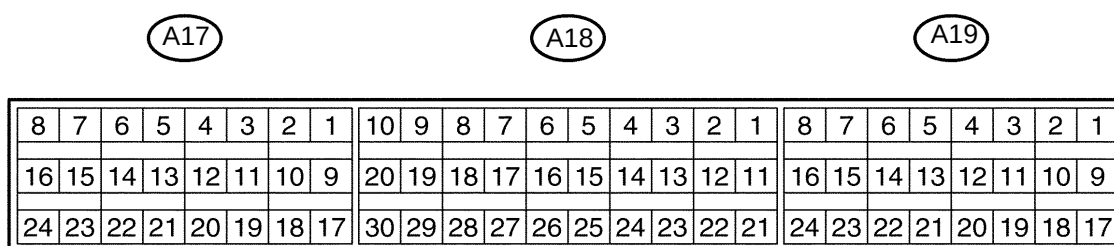
HINT:
Proceed with troubleshooting of each circuit in the table below.

Symptom	Suspect Area	See page
- When the power switch is on (IG), the SRS warning light some-times comes on after approximately 6 seconds. - The SRS warning light remains on when DTC is not output.	SRS Warning Light Circuit Malfunction (Remains on when DTC is not output)	05-1649
The SRS warning light does not come on with the power switch on (IG).	SRS Warning Light Circuit Malfunction (Does not come on when the power switch is turned on (IG)).	05-1654
- SRS warning light is blink. - DTC cannot read.	TC Terminal Circuit	05-1656

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TERMINALS OF ECU

1. AIRBAG ECU ASSY



P

H43423

Terminal No.	Terminal Symbol	Destination
A17-1	SFD+	Front seat airbag assy LH (Side squib (D seat side))
A17-2	SFD-	Front seat airbag assy LH (Side squib (D seat side))
A17-3	ICD-	Curtain shield airbag assy LH (Curtain shield airbag (D seat side) squib)
A17-4	ICD+	Curtain shield airbag assy LH (Curtain shield airbag (D seat side) squib)
A17-5	PD+	Front seat outer belt assy LH (P/T squib (D seat side))
A17-6	PD-	Front seat outer belt assy LH (P/T squib (D seat side))
A17-9	DSP+	Front seat inner belt assy LH
A17-10	DSE+	Seat position airbag sensor
A17-17	DSP-	Front seat inner belt assy LH
A17-18	DSE-	Seat position airbag sensor
A17-19	VUPD	Side airbag sensor assy LH
A17-20	VUCD	Airbag sensor rear LH
A17-21	ESD	Side airbag sensor assy LH
A17-22	ESCD	Airbag sensor rear LH
A18-1	P2+	Front passenger airbag assy (P squib, Dual stage – 2nd step)
A18-2	P2-	Front passenger airbag assy (P squib, Dual stage – 2nd step)
A18-3	P-	Front passenger airbag assy (P squib)
A18-4	P+	Front passenger airbag assy (P squib)
A18-5	D+	Horn button assy (D squib)
A18-6	D-	Horn button assy (D squib)
A18-7	D2-	Horn button assy (D squib, Dual stage – 2nd step)
A18-8	D2+	Horn button assy (D squib, Dual stage – 2nd step)
A18-14	LA	Combination meter assy (SRS warning light)
A18-15	TC	DLC3
A18-16	SIL	DLC3
A18-21	IG2	IGN Fuse
A18-22	GSW2	HV ECU
A18-25	E1	Ground
A18-26	E2	Ground
A18-27	-SR	Airbag sensor front RH
A18-28	-SL	Airbag sensor front LH

Terminal No.	Terminal Symbol	Destination
A18-29	+SR	Airbag sensor front RH
A18-30	+SL	Airbag sensor front LH
A19-3	PP-	Front seat outer belt assy RH (P/T squib (P seat side))
A19-4	PP+	Front seat outer belt assy RH (P/T squib (P seat side))
A19-5	ICP+	Curtain shield airbag assy RH (Curtain shield airbag (D seat side) squib)
A19-6	ICP-	Curtain shield airbag assy RH (Curtain shield airbag (D seat side) squib)
A19-7	SFP-	Front seat airbag assy RH (Side Squib (D seat side))
A19-8	SFP+	Front seat airbag assy RH (Side Squib (D seat side))
A19-15	PBE+	Front seat inner belt assy RH
A19-19	ESCP	Airbag sensor rear RH
A19-20	ESP	Side airbag sensor assy RH
A19-21	VUCP	Airbag sensor rear RH
A19-22	VUPP	Side airbag sensor assy RH