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

CIRCUIT DESCRIPTION

The D squib (Dual stage – 2nd step) circuit consists of the airbag sensor assy center, the spiral cable sub–assy and the horn button assy.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC 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 sensor assy center 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 sensor assy center malfunction	• Instrument panel wire • Spiral cable sub–assy • Horn button assy (D squib, Dual stage – 2nd step) • Airbag sensor assy center

WIRING DIAGRAM

See page 05–1038.

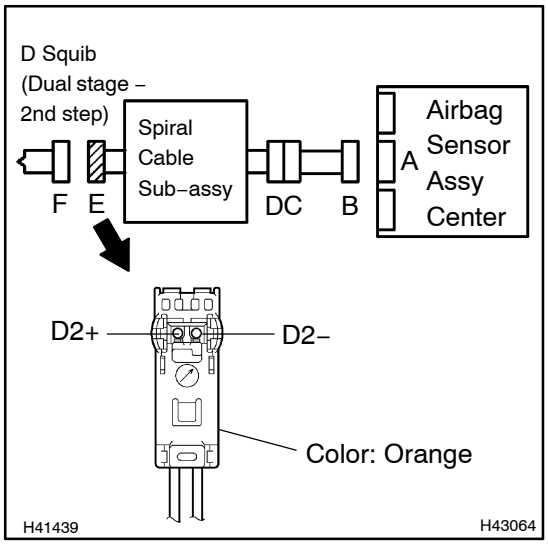
CIRCUIT INSPECTION

CAUTION:

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

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center.
(d) Disconnect the connectors from the horn button assy.
(e) Disconnect the connector from the front passenger airbag assy.
(f) Disconnect the connector from the instrument panel airbag assy lower No.1.
(g) Disconnect the connector from the instrument panel airbag assy lower No.2.
(h) Disconnect the connector from the front seat airbag assy LH.
(i) Disconnect the connector from the front seat airbag assy RH.
(j) Disconnect the connector from the curtain shield airbag assy LH.
(k) Disconnect the connector from the curtain shield airbag assy RH.
(l) Disconnect the connector from the front seat outer belt assy LH.
(m) Disconnect the connector from the front seat outer belt assy RH.
(n) Disconnect the connectors from the rear seat 3 point type outer belt assy.

1	CHECK D SQUIB CIRCUIT(DUAL STAGE – 2ND STEP, AIRBAG SENSOR ASSY CENTER – HORN BUTTON ASSY)



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

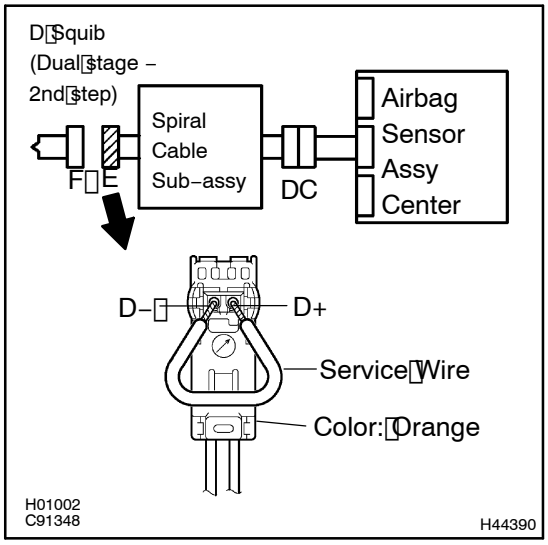
Standard:

Tester connection	Condition	Specified condition
D2+ – Body ground	Ignition switch ON	Below 1 V
D2– – Body ground	Ignition switch ON	Below 1 V

NG → **Go to step 4**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connectors to the airbag sensor assy center.
(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 ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (see page 05–959).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (see page 05–959).

OK:

DTC B1813 is not output.

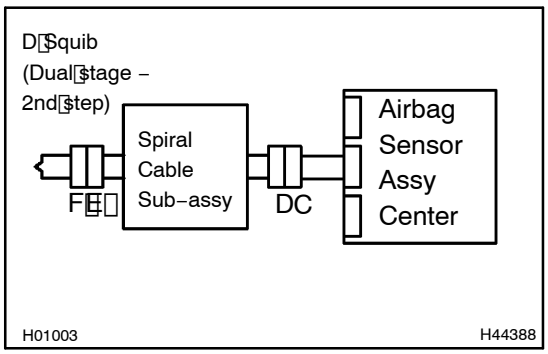
HINT:

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

NG	**REPLACE AIR BAG SENSOR ASSY CENTER (SEE PAGE 60–74)**

OK

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



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the service wire from connector "E".
(d) Connect the connectors to the horn button assy.
(e) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (see page 05–959).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (see page 05–959).

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 60–22)

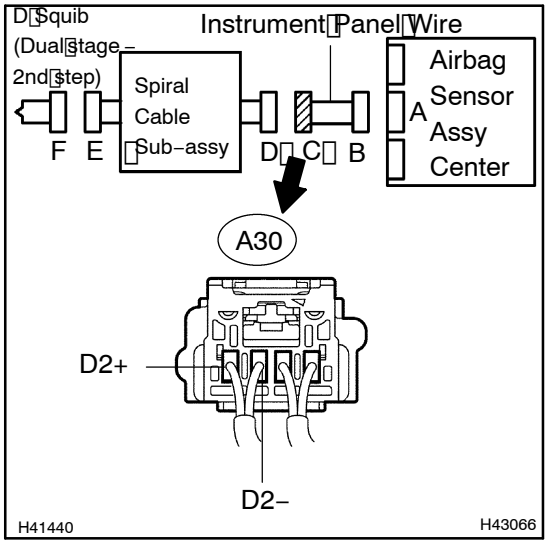
OK

USE SIMULATION METHOD TO CHECK (SEE PAGE 05–954)

HINT:

- Perform the simulation method by selecting the check mode with the intelligent tester II (see page 05–960).
- 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 05–960).

4 CHECK INSTRUMENT PANEL WIRE



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the 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 ignition switch to the ON position.
(f) Measure the voltage according to the value(s) in the table below.

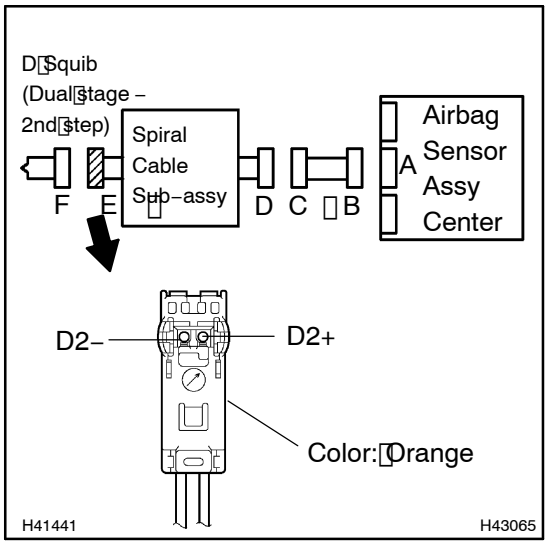
Standard:

Tester connection	Condition	Specified condition
A30–4 (D2+) – Body ground	Ignition switch ON	Below 1 V
A30–3 (D2–) – Body ground	Ignition switch ON	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 ignition switch remains in the ON position.

Standard:

Tester connection	Condition	Specified condition
D2+ – Body ground	Ignition switch ON	Below 1 V
D2– – Body ground	Ignition switch ON	Below 1 V

NG → **REPLACE SPIRAL CABLE SUB–ASSY (SEE PAGE 60–31)**

OK

USE SIMULATION METHOD TO CHECK (SEE PAGE 05–954)

HINT:

- Perform the simulation method by selecting the check mode with the intelligent tester II (see page 05–960).
- 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 05–960).