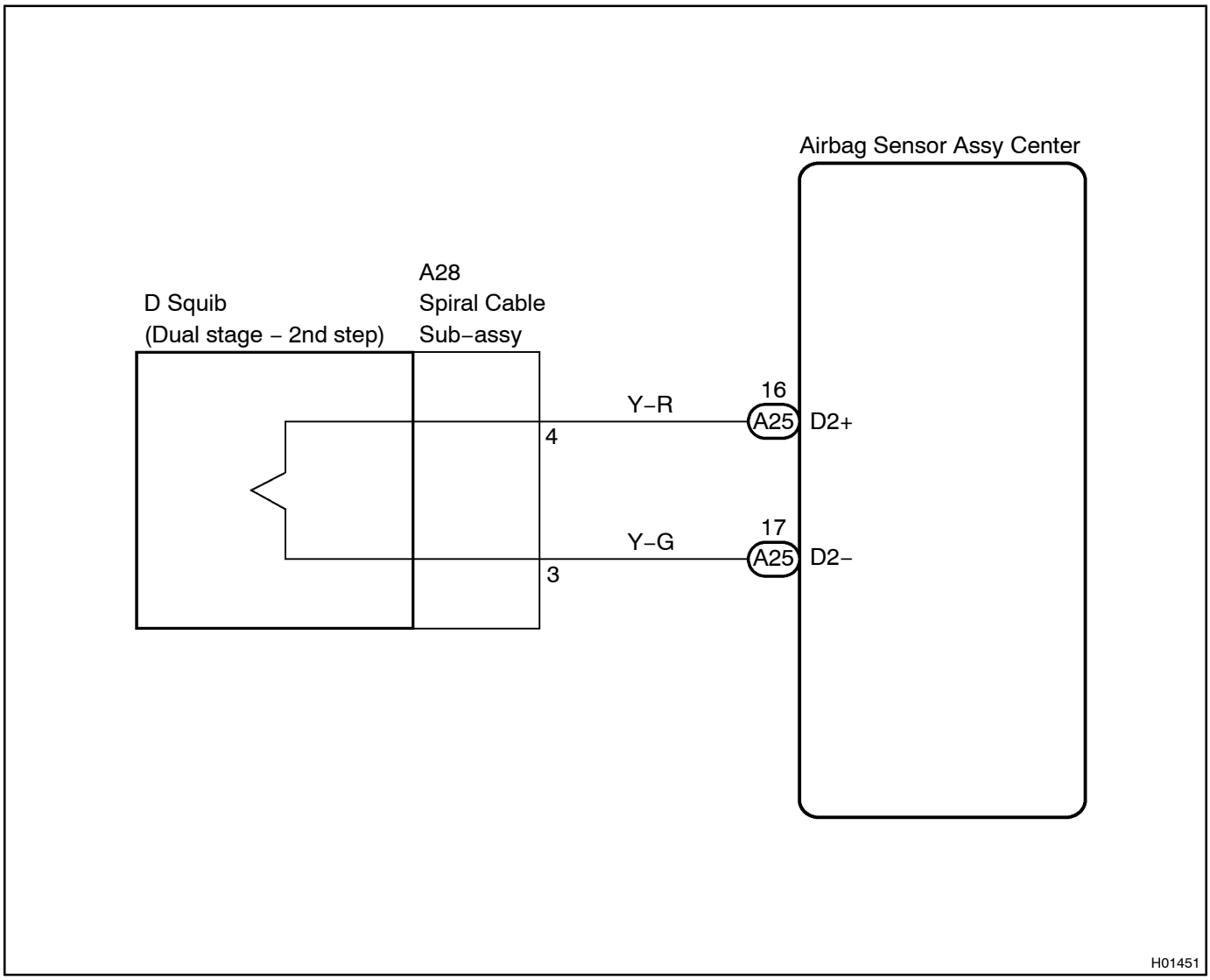
DTC	B1180/17	SHORT IN D SQUIB (DUAL STAGE – 2ND STEP) CIRCUIT

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 B1180/17 is recorded when a short circuit is detected in the D squib (Dual stage – 2nd step) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1180/17	• Short circuit between D2+ wire harness and D2– wire harness of D squib (Dual stage – 2nd step) • D squib (Dual stage – 2nd step) malfunction • Spiral cable sub–assy malfunction • Airbag sensor assy center malfunction	• Horn button assy (D squib, Dual stage – 2nd step) • Spiral cable sub–assy • Airbag sensor assy center • Cowl wire

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK CONNECTOR

(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 horn button assy.
(d) Check that the spiral cable sub–assy connectors (on the horn button assy side) are not damaged.

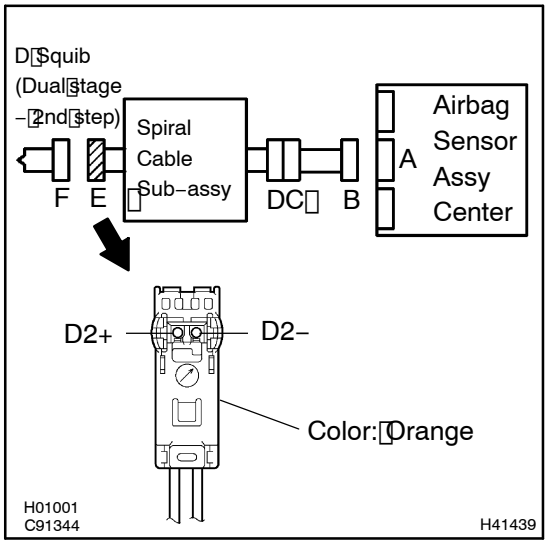
OK:

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

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

OK

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



(a) Disconnect the connector from the airbag sensor assy center.
(b) Release the activation prevention mechanism built into connector "B" (see page 05–507).
(c) Measure the resistance according to the value(s) in the table below.

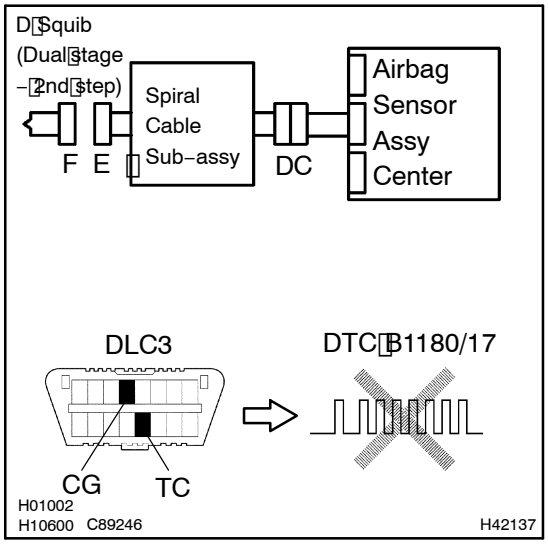
Standard:

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

NG → **Go to step 5**

OK

3	CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connector to the airbag sensor assy center.
(b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (see page 05–513).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (see page 05–513).

OK:

DTC B1180/17 is not output.

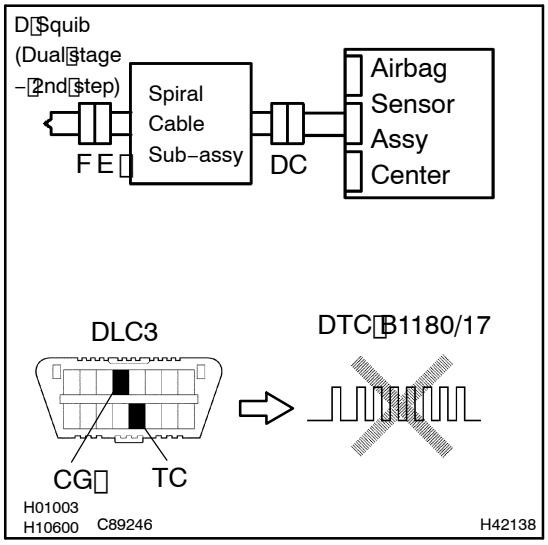
HINT:

Codes other than code B1180/17 may be output at this time, but they are not related to this check.

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

OK

4	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) 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 ignition switch to the ON position, and wait for at least 60 seconds.
(f) Clear the DTCs stored in memory (see page 05–513).
(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(i) Check the DTCs (see page 05–513).

OK:

DTC B1180/17 is not output.

HINT:

Codes other than code B1180/17 may be output at this time, but they are not related to this check.

NG → **REPLACE HORN BUTTON ASSY**

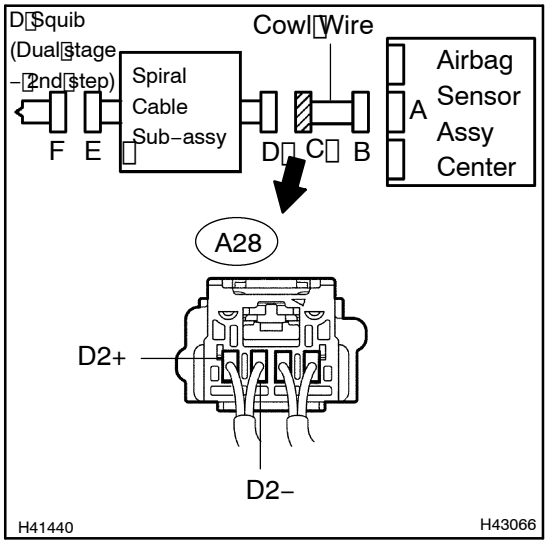
OK

USE SIMULATION METHOD TO CHECK

HINT:

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

5 CHECK COWL WIRE



(a) Disconnect the cowl 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.

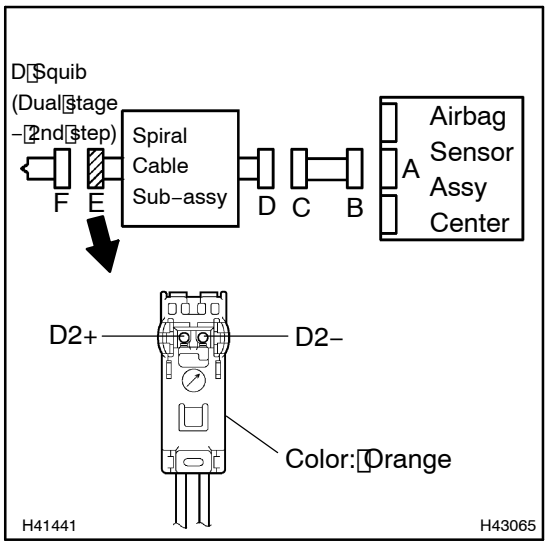
Standard:

Tester connection	Condition	Specified condition
A28–4 (D2+) – A28–3 (D2–)	Always	1 MΩ or Higher

NG → REPAIR OR REPLACE COWL WIRE

OK

6 CHECK SPIRAL CABLE SUB–ASSY



(a) Release the activation prevention mechanism built into connector "D" (see page 05–507).

(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

OK

USE SIMULATION METHOD TO CHECK

HINT:

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