DIATZ–01

DTC	B1180/17	Short in D Squib (2nd step) Circuit

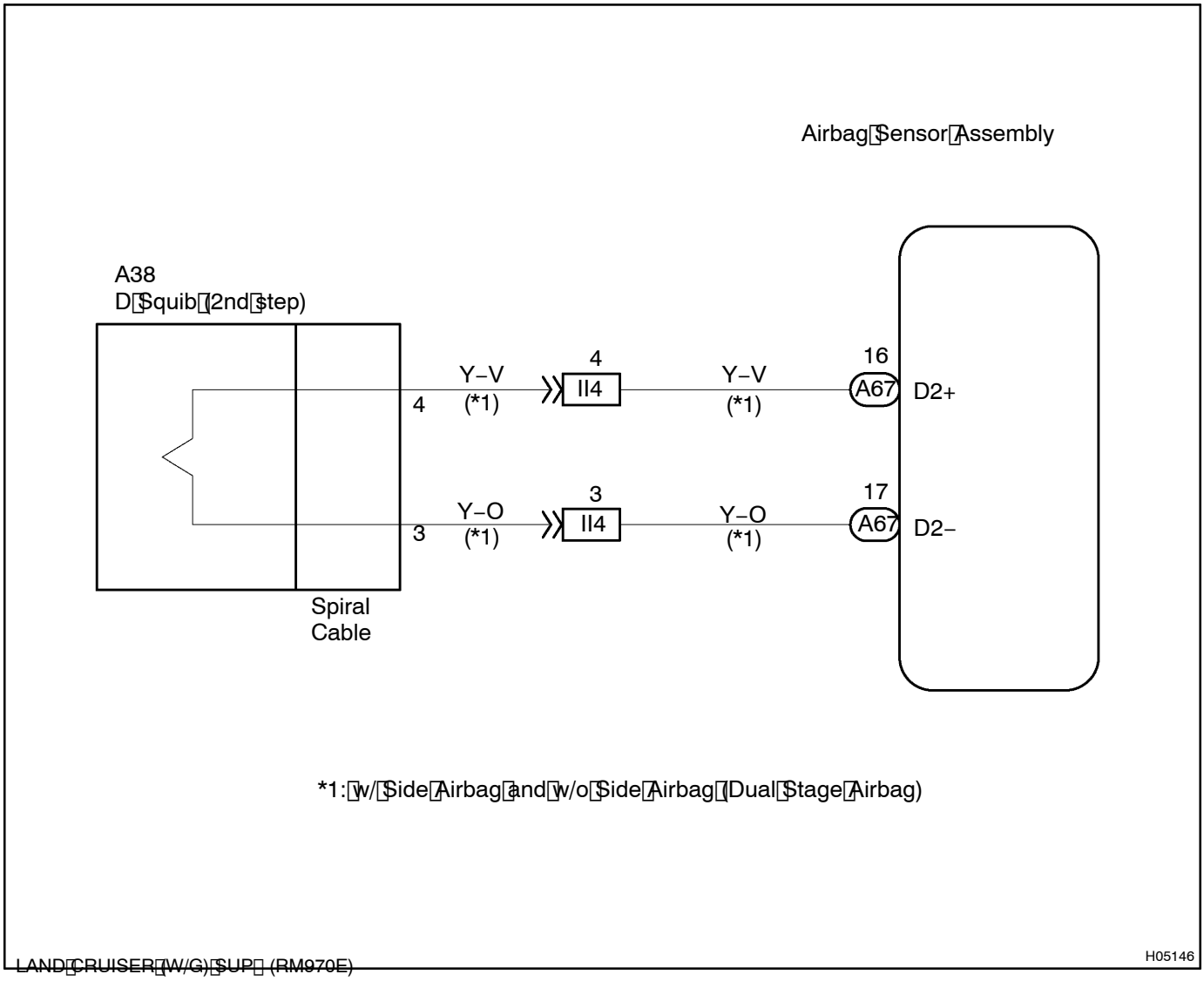
CIRCUIT DESCRIPTION

The D squib (2nd step) circuit consists of the airbag sensor assembly, the spiral cable and the steering wheel pad.
It causes the airbag to deploy when the airbag deployment conditions are satisfied.
For details of the function of each component, see OPERATION on page RS–3.
DTC B1180/17 is recorded when a short is detected in the D squib (2nd step) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1180/17	• Short in D squib (2nd step) circuit • D squib (2nd step) malfunction • Spiral cable malfunction • Airbag sensor assembly malfunction	• Steering wheel pad (D squib (2nd step)) • Spiral cable • Airbag sensor assembly • Dash wire • Column wire

HINT:
DTC B1180/17 is indicated only for the vehicle equipped with the side airbag and without the side airbag (dual stage airbag).

WIRING DIAGRAM



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INSPECTION PROCEDURE

1	Prepare for inspection (See step 1 on page DI–764).

2	Check connector.

CHECK:

Make sure that the black spiral cable connector is not damaged.

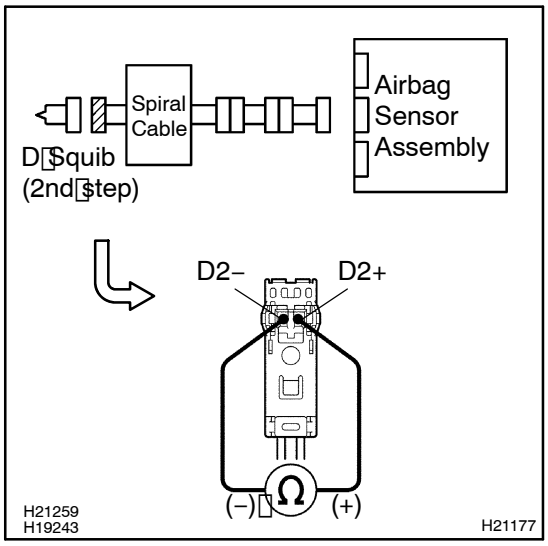
OK:

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

NG → **Replace spiral cable.**

OK

3	Check D squib (2nd step) circuit.



PREPARATION:

Release the airbag activation prevention mechanism built in the connector on the airbag sensor assembly side between the airbag sensor assembly and the steering wheel pad (D squib (2nd step)) (See page DI–432).

CHECK:

Measure the resistance between D2+ and D2– of the black connector on the steering wheel pad (D squib (2nd step)) side between the airbag sensor assembly and the steering wheel pad (D squib (2nd step)).

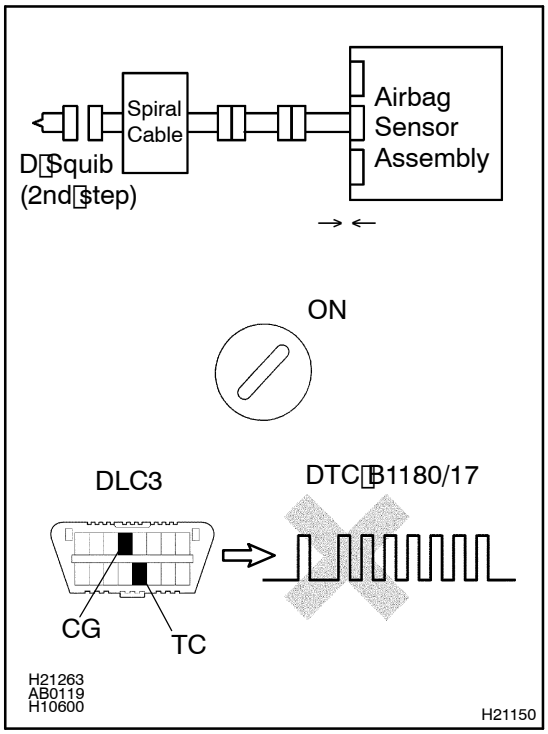
OK:

Resistance: 1 MΩ or Higher

NG → **Go to step 6.**

OK

4	Check airbag sensor assembly.



PREPARATION:

(a) Connect the connector to the airbag sensor assembly.

(b) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.

CHECK:

(a) Turn the ignition switch to ON, and wait at least for 10 seconds.

(b) Clear the DTC stored in memory (See page DI–432).

(c) Turn the ignition switch to LOCK, and wait at least for 10 seconds.

(d) Turn the ignition switch to ON, and wait at least for 10 seconds.

(e) Check the DTC (See page DI–432).

OK:

DTC B1180/17 is not output.

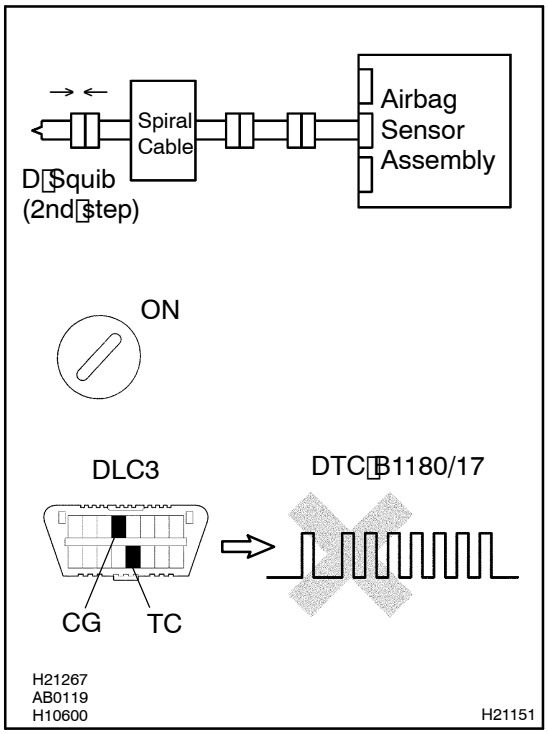
HINT:

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

NG	Replace airbag sensor assembly.

OK

5	Check D squib (2nd step).



PREPARATION:

(a) Turn the ignition switch to LOCK.

(b) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.

(c) Connect the steering wheel pad (D squib (2nd step)) to the spiral cable.

(d) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.

CHECK:

(a) Turn the ignition switch to ON, and wait at least for 10 seconds.

(b) Clear the DTC stored in memory (See page DI–432).

(c) Turn the ignition switch to LOCK, and wait at least for 10 seconds.

(d) Turn the ignition switch to ON, and wait at least for 10 seconds.

(e) Check the DTC (See page DI–432).

OK:

DTC B1180/17 is not output.

HINT:

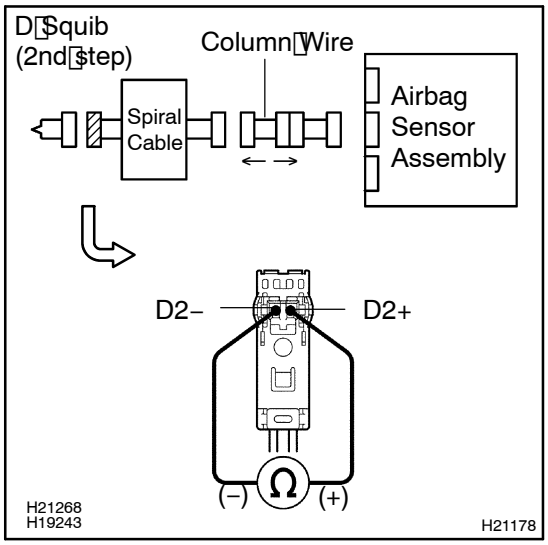
Codes other than code B1180/17 may be output at this time, but they are not relevant to this check.

NG	Replace steering wheel pad (D squib (2nd step)).

OK

From the results of the above inspection, the malfunctioning part can now be considered normal. To make sure of this, use the simulation method to check.

6	Check spiral cable.



PREPARATION:

(a) Disconnect the spiral cable connector from the column wire.

(b) Release the airbag activation prevention mechanism built in the spiral cable connector on the airbag sensor assembly side (See page DI–432).

CHECK:

Measure the resistance between D2+ and D2– of the black spiral cable connector on the steering wheel pad (D squib (2nd step)) side.

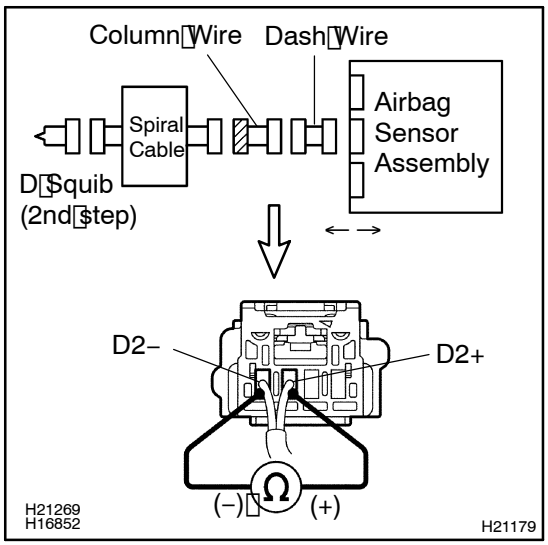
OK:

Resistance: 1 MΩ or Higher

NG	Replace spiral cable.

OK

7	Check column wire.



PREPARATION:

Release the airbag activation prevention mechanism built in the column wire connector on the airbag sensor assembly side (See page DI–432).

CHECK:

Measure the resistance between D2+ and D2– of the column wire connector on the spiral cable side.

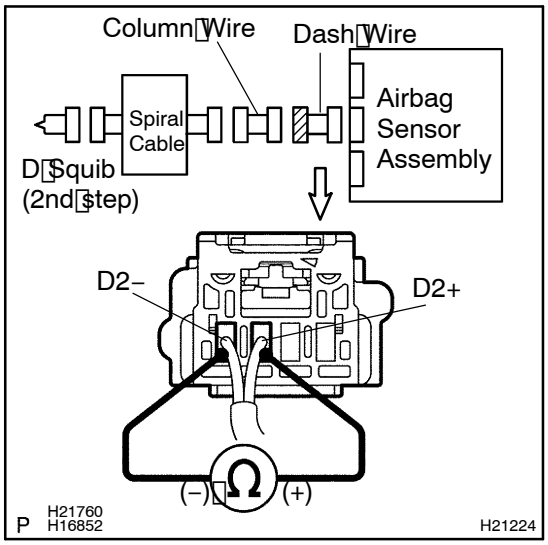
OK:

Resistance: 1 MΩ or Higher

NG	Repair or replace column wire.

OK

8	**Check dash wire.**



PREPARATION:

Release the airbag activation prevention mechanism built in the connector of the dash wire on the airbag sensor assembly side (See page DI–432).

CHECK:

Measure the resistance between D2+ and D2– of the dash wire connector on the column wire side.

OK:

Resistance: 1 MΩ or Higher

NG → **Repair or replace dash wire.**

OK

From the results of the above inspection, the malfunctioning part can now be considered normal. To make sure of this, use the simulation method to check.