CIRCUIT INSPECTION

DI3QG–02

| DTC	B0100/13	**Short in D Squib Circuit**

CIRCUIT DESCRIPTION

The D squib 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 B0100/13 is recorded when a short is detected in the D squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B0100/13	• Short in D squib circuit • D squib malfunction • Spiral cable malfunction • Airbag sensor assembly malfunction	• Steering wheel pad (D squib) • Spiral cable • Airbag sensor assembly • Dash wire • Column wire

WIRING DIAGRAM
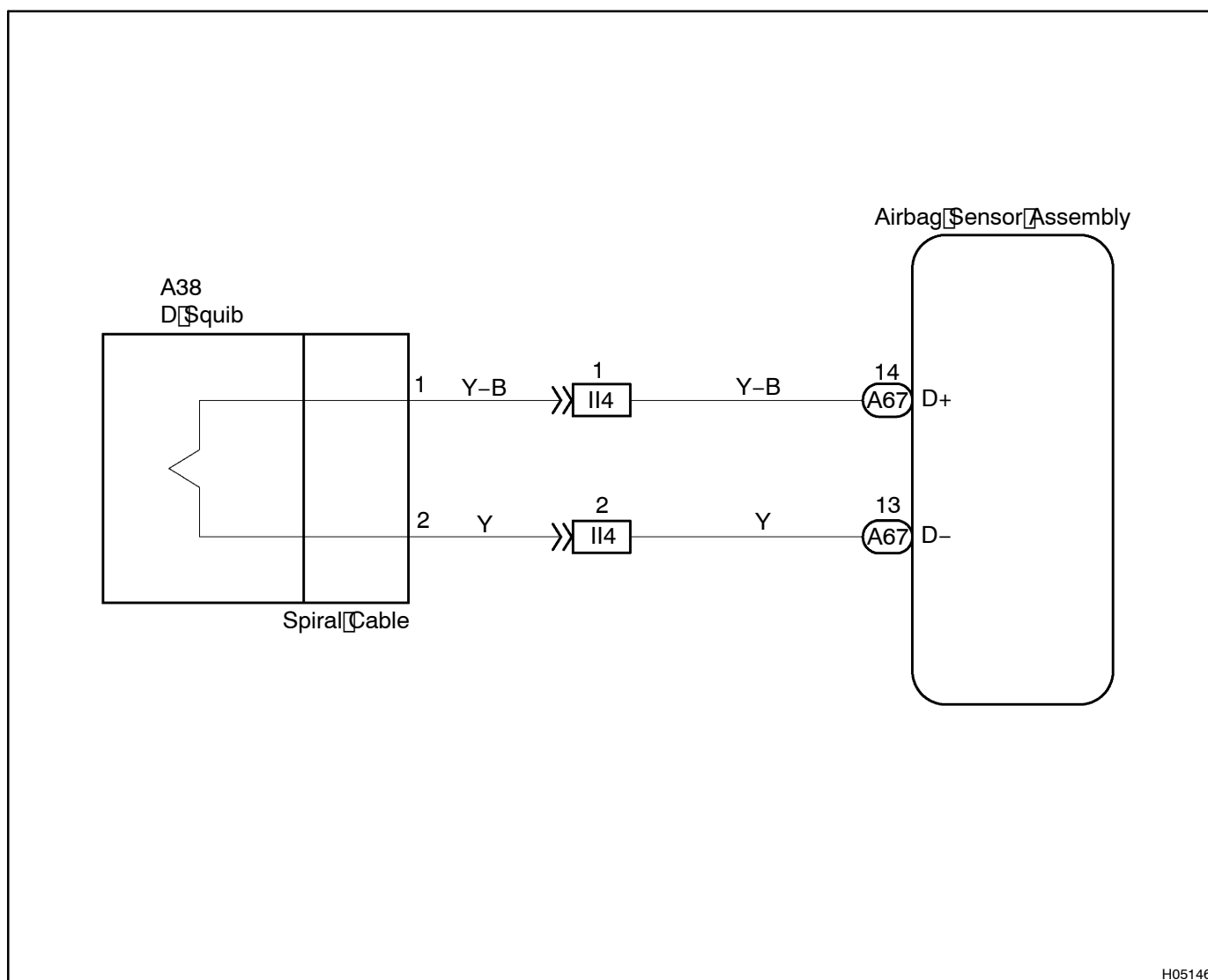
INSPECTION PROCEDURE

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

2	Check connector.

CHECK:
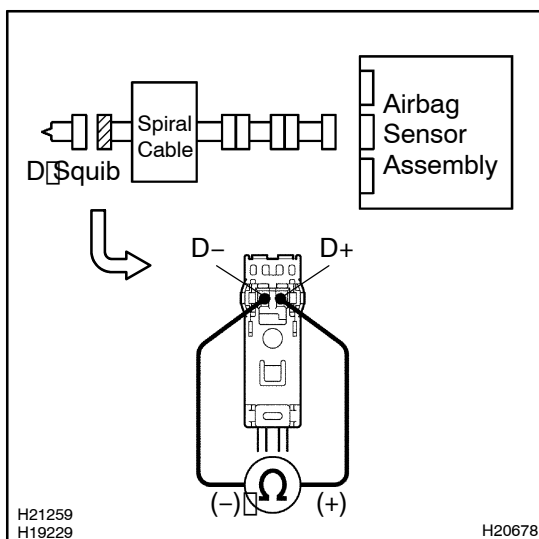Make sure that the orange spiral cable connector is not damaged.
OK:
The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

NG > **Replace spiral cable.**

OK

3	Check D squib circuit.

D Squib
Spiral Cable
Airbag Sensor Assembly

D– D+
(–) Ω (+)

H21259
H19229
H20678

PREPARATION:
Release the airbag activation prevention mechanism built in the connector on the airbag sensor assembly side between the steering wheel pad (D squib) and the airbag sensor assembly (See page DI–432).
CHECK:
Measure the resistance between D+ and D– of the orange connector on the steering wheel pad (D squib) side between the airbag sensor assembly and the steering wheel pad (D squib).
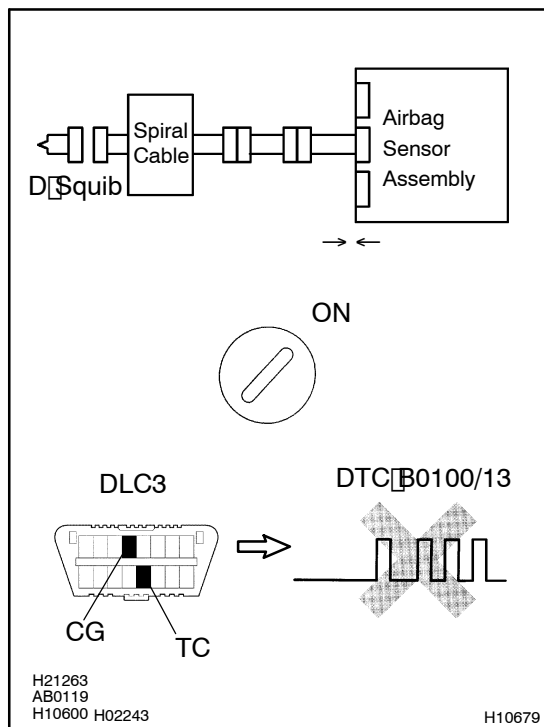**OK:**
Resistance: 1 MΩ or Higher

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 B0100/13 is not output.

HINT:
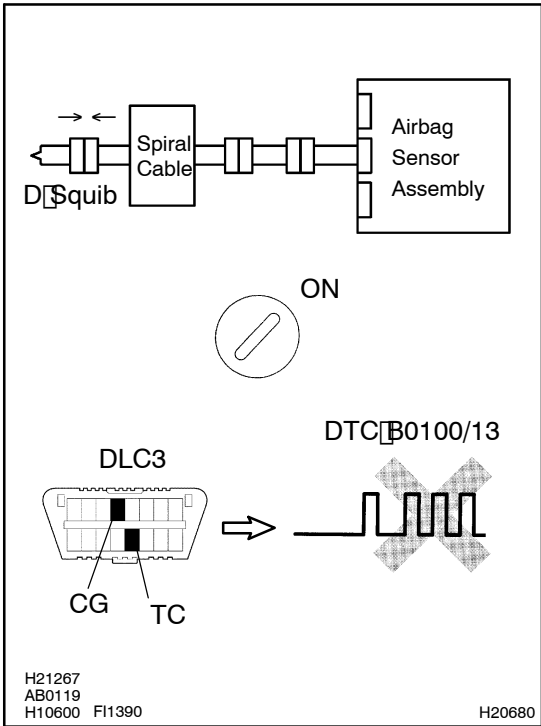Codes other than code B0100/13 may be output at this time, but they are not relevant to this check.

NG	Replace airbag sensor assembly.

OK

5	Check D squib.

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) 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 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 B0100/13 is not output.

HINT:

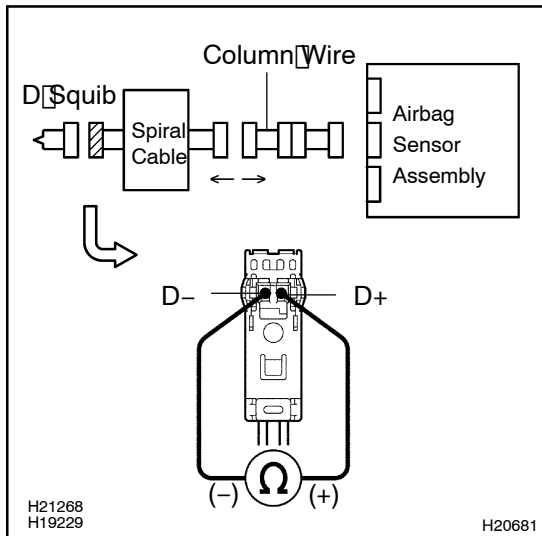Codes other than code B0100/13 may be output at this time, but they are not relevant to this check.

NG ⟩	Replace steering wheel pad (D squib).

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 connector of the spiral cable on the airbag sensor assembly side (See page DI–432).

CHECK:
Measure the resistance between D+ and D– of the orange spiral cable connector on the steering wheel pad (D squib) side.
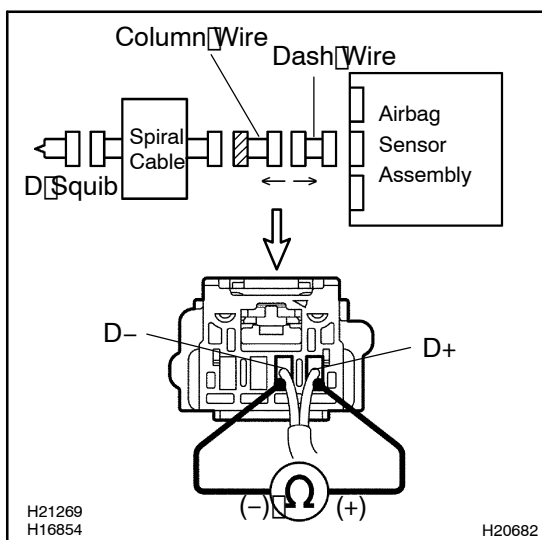
OK:

    Resistance: 1 MΩ or Higher

NG	Replace spiral cable.

OK

7	Check column wire.

PREPARATION:
(a) Disconnect the column wire connector from the dash wire.
(b) Release the airbag activation prevention mechanism built in the connector of the column wire on the airbag sensor assembly side (See page DI–432).

CHECK:
Measure the resistance between D+ and D– of the column wire connector on the spiral cable side.
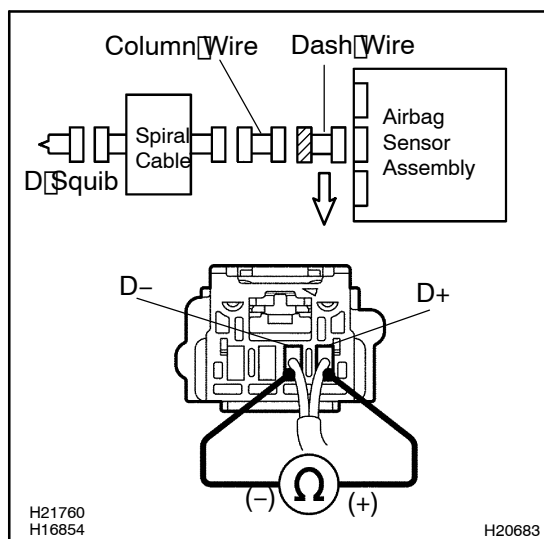
OK:

    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 D+ and D– 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.