

DTC	13	Short in D Squib Circuit
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CIRCUIT DESCRIPTION

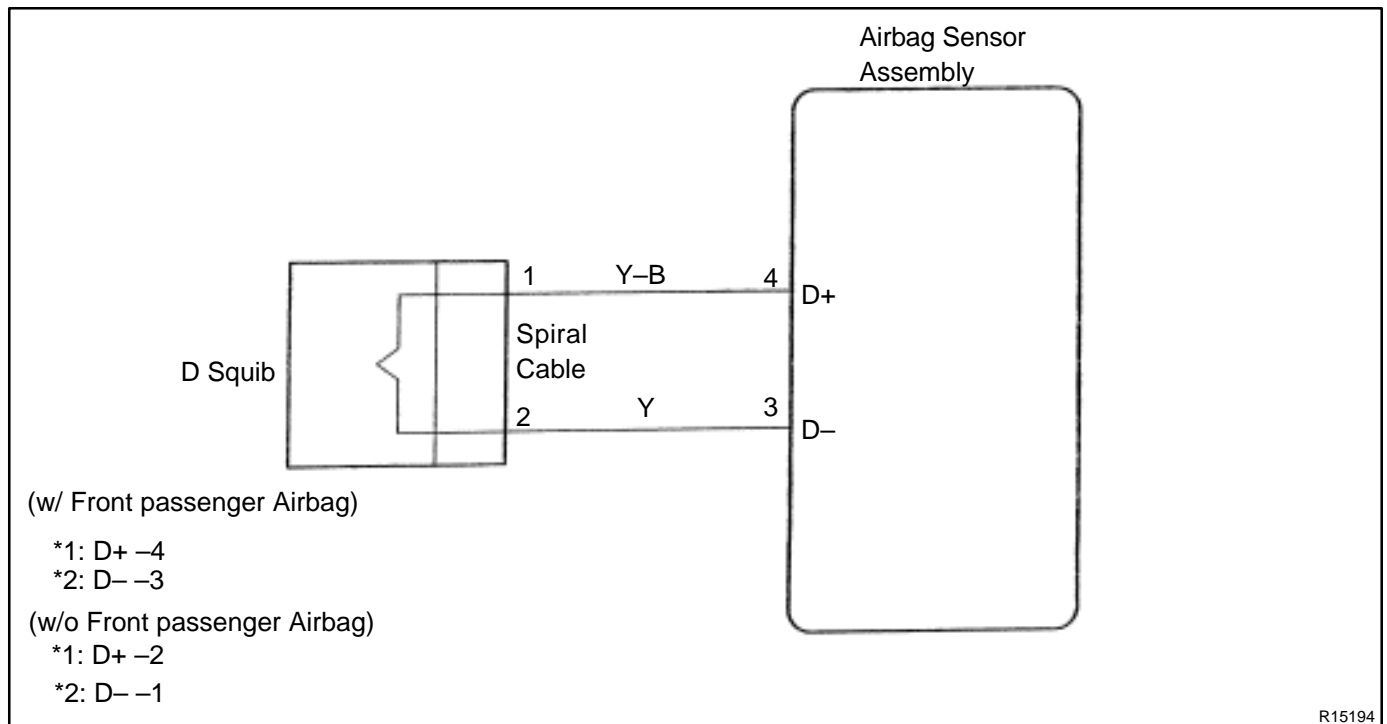
The D squib circuit consists of the airbag sensor assembly, spiral cable and steering wheel pad. It causes the airbag to deploy when the airbag deployment conditions are satisfied.

For details of the function of each components, see FUNCTION OF COMPONENTS on page [RS-2](#)

DTC 13 is recorded when a short is detected in the D squib circuit.

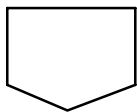
DTC No.	DTC Detecting Condition	Trouble Area
13	<ul style="list-style-type: none"> • Short circuit between D⁺ wire harness and D⁻ wire harness of squib • D squib malfunction • Spiral cable malfunction • Airbag sensor assembly malfunction 	<ul style="list-style-type: none"> • Steering wheel pad (D squib) • Spiral cable • Airbag sensor assembly • Wire harness

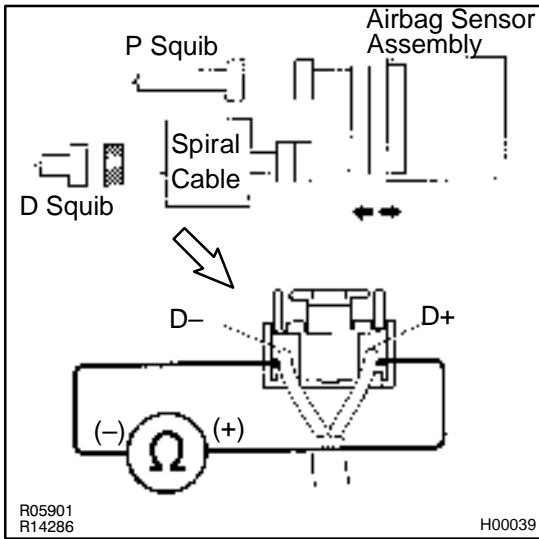
WIRING DIAGRAM



INSPECTION PROCEDURE

1	Preparation. (See step 1 on page DI-252)
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2**Check D squib circuit.****CHECK:**

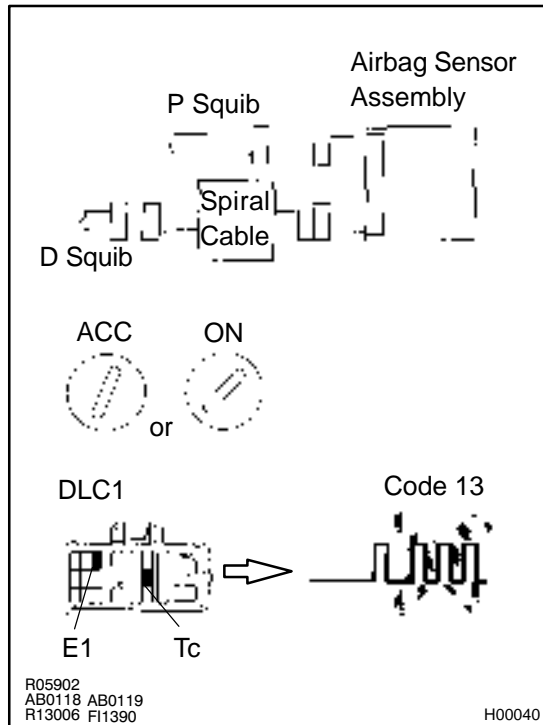
For the connector (on the spiral cable side) between the spiral cable and steering wheel pad, measure the resistance between D⁺ and D⁻.

OK:

Resistance: 1 MΩ or Higher

NG**Go to step 5.****OK**

3 Check airbag sensor assembly.



PREPARATION:

- Connect connector to the airbag sensor assembly.
- Connect negative (–) terminal cable to battery, and wait at least 2 seconds.

CHECK:

- Turn ignition switch to ACC or ON and wait at least 20 seconds.
- Clear malfunction code stored in memory. (See page [DI-211](#))
- Turn ignition switch to LOCK, and wait at least 20 seconds.
- Turn ignition switch to ACC or ON, and wait at least 20 seconds.
- Using SST, connect terminals Tc and E1 of DLC 1. SST 09843–18020
- Check DTC.

OK:

DTC 13 is not output.

HINT:

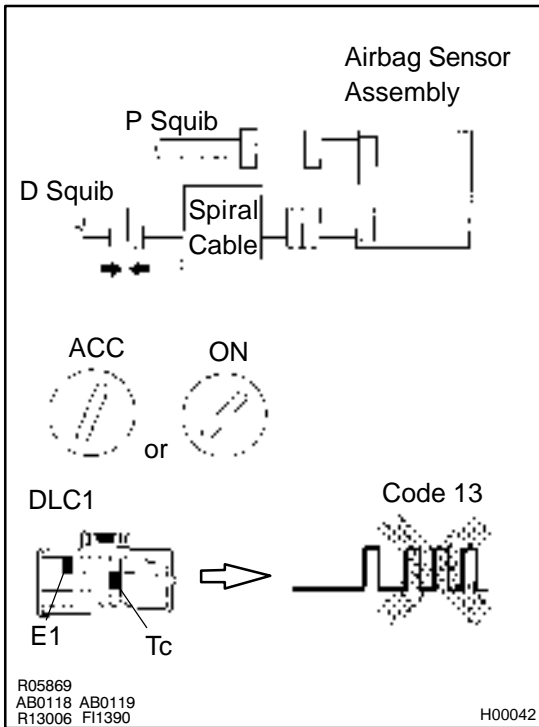
Codes other than code 13 may be output at this time, but they are not relevant to this check.

NG

Replace airbag sensor assembly.

OK

4 Check D squib.



PREPARATION:

- Turn ignition switch to LOCK.
- Disconnect negative (–) terminal cable from the battery, and wait at least 90 seconds.
- Connect steering wheel pad connector.
- Connect negative (–) terminal cable to battery, and wait at least 2 seconds.

CHECK:

- Turn ignition switch to LOCK, and wait at least 20 seconds.
- Turn ignition switch to ACC or ON, and wait at least 20 seconds.
- Clear malfunction code stored in memory.
(See page [DI-211](#))
- Turn ignition switch to LOCK, and wait at least 20 seconds.
- Turn ignition switch to ACC or ON, and wait at least 20 seconds.
- Using SST, connect terminals Tc and E1 of DLC 1.
SST 09843–18020
- Check DTC.

OK:

DTC 13 is not output.

HINT:

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

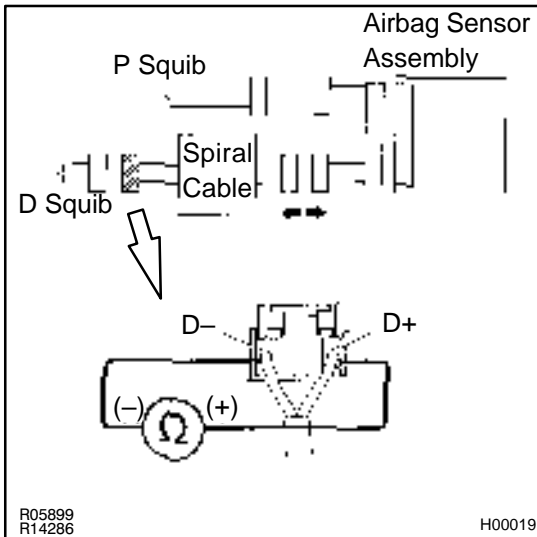
NG

Replace steering wheel pad.

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.

5 Check spiral cable.



PREPARATION:

- Disconnect connector between airbag sensor assembly and spiral cable.
- Release airbag activation prevention mechanism on airbag sensor assembly side of airbag squib connector (See page [DI-211](#)).

CHECK:

For the connector (on the spiral cable side) between the spiral cable and steering wheel pad, measure the resistance between D⁺ and D⁻.

OK:OK:

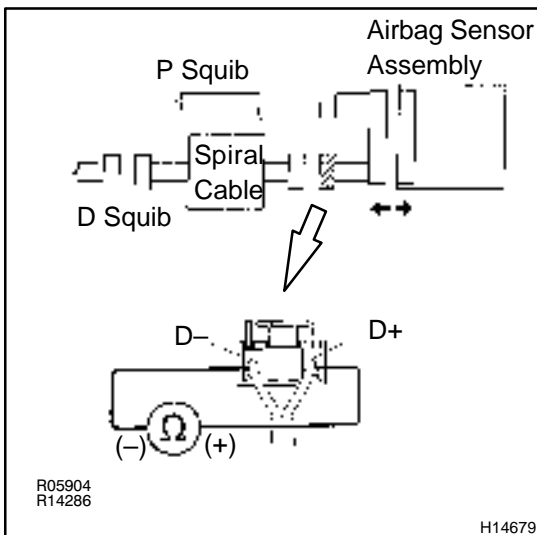
Resistance: 1 MΩ or Higher

NG

Repair or replace spiral cable.

OK

6 Check harness between airbag sensor assembly and spiral cable.



CHECK:

For the connector (on the airbag sensor assembly side) between the spiral cable and airbag sensor assembly, measure the resistance between D⁺ and D⁻.

OK:

Resistance: 1 MΩ or higher

NG

Repair or replace harness or connector between airbag sensor assembly and spiral cable.

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.