

CIRCUIT INSPECTION

DTC	11	Short in Squib Circuit (to Ground)
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CIRCUIT DESCRIPTION

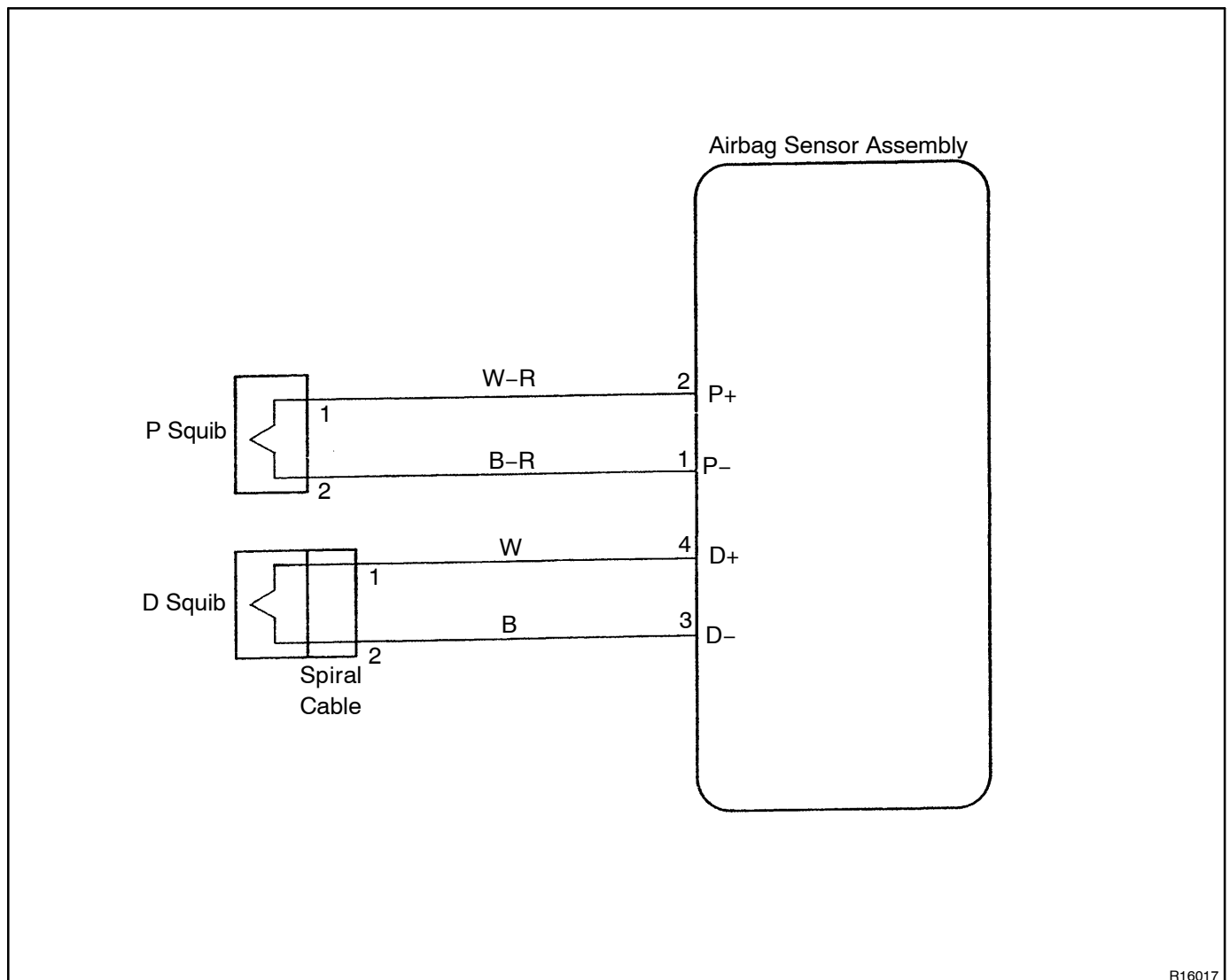
The squib circuit consists of the airbag sensor assembly, spiral cable, steering wheel pad and front passenger airbag assembly. It causes the SRS to deploy when the SRS deployment conditions are satisfied.

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

DTC 11 is recorded when ground short is detected in the squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
11	• Short circuit in squib wire harness (to ground) • Squib malfunction • Spiral cable malfunction • Airbag sensor assembly malfunction	• Steering wheel pad (D squib) • Front passenger airbag assembly (P squib) • Spiral cable • Airbag sensor assembly • Wire harness

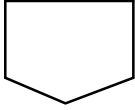
WIRING DIAGRAM



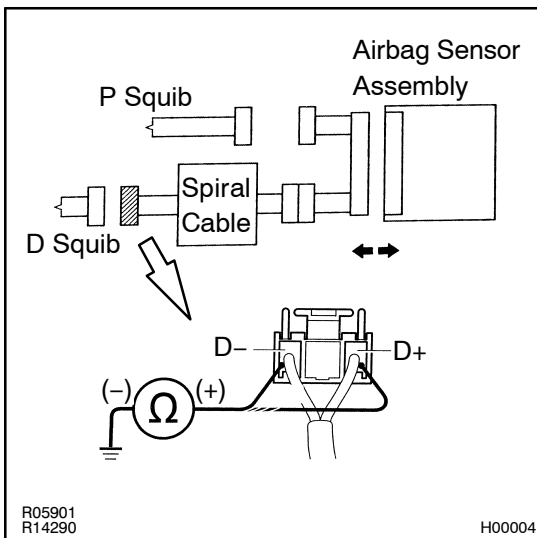
R16017

INSPECTION PROCEDURE

1 Preparation (See step 1 on page [DI-259](#)).



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+, D- and body ground.

OK:

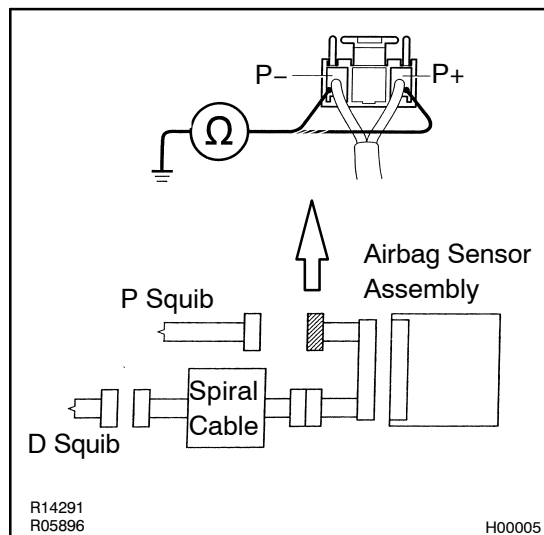
Resistance: 1MΩ or Higher

NG

Go to step 7.

OK

3 Check P squib circuit.

**CHECK:**

For the connector (on the airbag sensor assembly side) between the airbag sensor assembly and front passenger airbag assembly, measure the resistance between P+, P- and body ground.

OK:

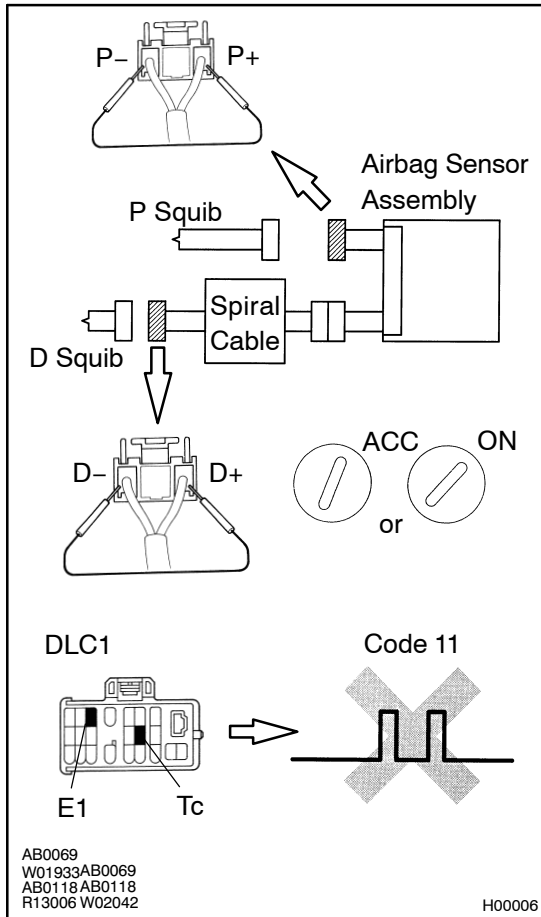
Resistance: 1MΩ or Higher

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Replace harness and connector between the airbag sensor assembly and front passenger airbag assembly.

OK

4 Check airbag sensor assembly.



PREPARATION:

- Connect connector to airbag sensor assembly.
- Using a service wire connect D+ and D- on spiral cable side of connector between spiral cable and steering wheel pad.
- Using a service wire, connect P+ and P- on airbag sensor assembly side of connector between airbag sensor assembly and front passenger airbag 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-227](#)).
- 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 DLC1.
SST 09843-18020
- Check DTC

OK:

DTC 11 is not output.

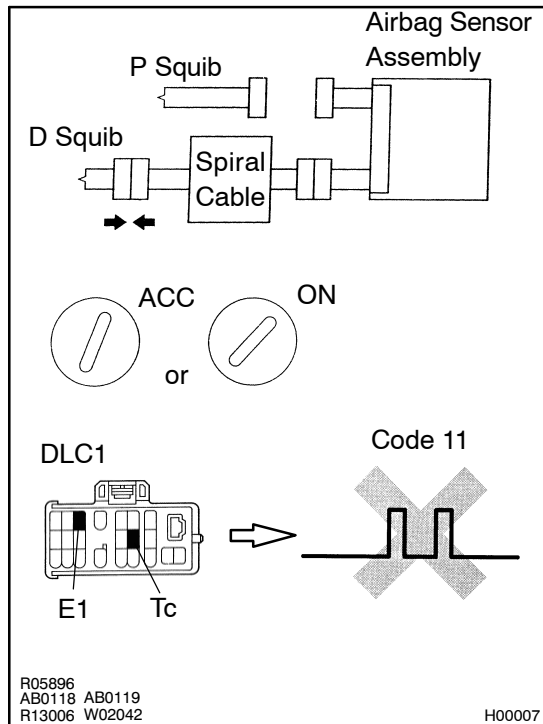
HINT:

Codes other than code 11 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:**

- 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:

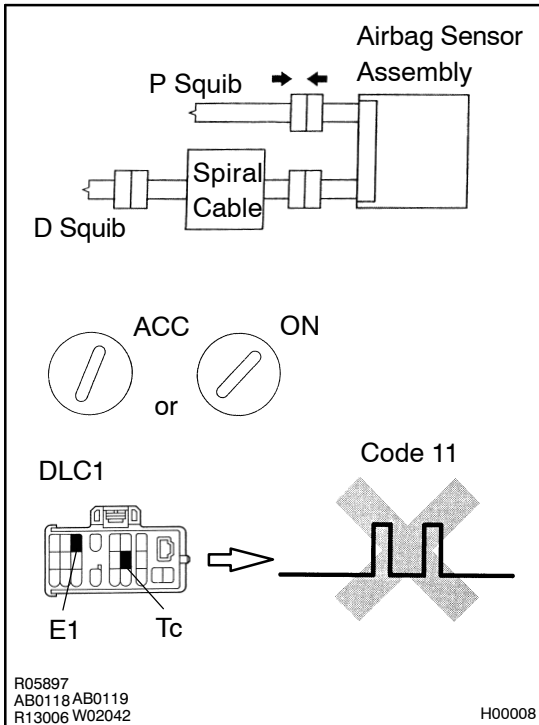
- Turn ignition switch to ACC or ON, and wait at least 20 seconds.
- Clear malfunction code stored in memory (See page [DI-227](#)).
- Turn ignition switch to LOCK, and wait at least 20 seconds.
- Turn ignition switch to ACC or ON, and wait at least 20 seconds.
- Using SST, connect terminals Tc and E1 of DLC1.
SST 09843-18020
- Check DTC.

OK:**DTC 11 is not output.****HINT:**

Codes other than code 11 may be output at this time, but they are not relevant to this check.

NG**Replace steering wheel pad.****OK**

6

Check P squib.**PREPARATION:**

- Turn ignition switch to LOCK.
- Disconnect negative (-) terminal cable from the battery, and wait at least 90 seconds.
- Connect front passenger airbag assembly connector.
- 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-227](#)).
- 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 DLC1.
SST 09843-18020
- Check DTC.

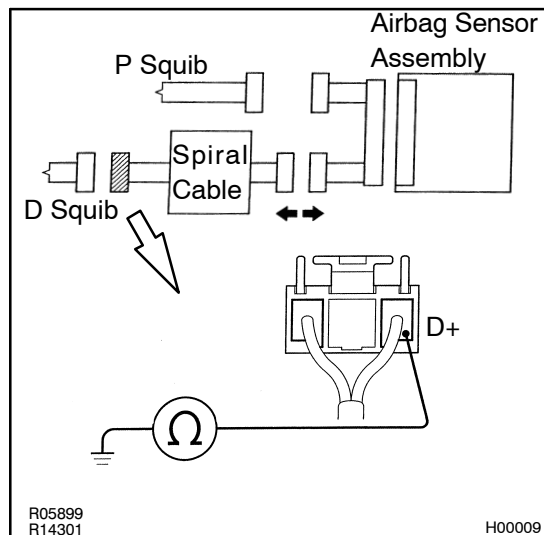
OK:**DTC 11 is not output.****HINT:**

Codes other than code 11 may be output at this time, but they are not relevant to this check.

NG**Replace front passenger airbag assembly.****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. If the malfunctioning part can not be detected by the simulation method, replace all SRS components including the wire harness.

7 Check spiral cable.



PREPARATION:

Disconnect connector between airbag sensor assembly and spiral cable.

CHECK:

Measure resistance between D+ on spiral cable side of connector between spiral cable and steering wheel pad and body ground.

OK:

Resistance: 1MΩ or Higher

NG

Replace spiral cable.

OK

Replace harness and connector between airbag sensor assembly and spiral cable.