

DTC	12	Short in Squib Circuit (to B+)
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CIRCUIT DESCRIPTION

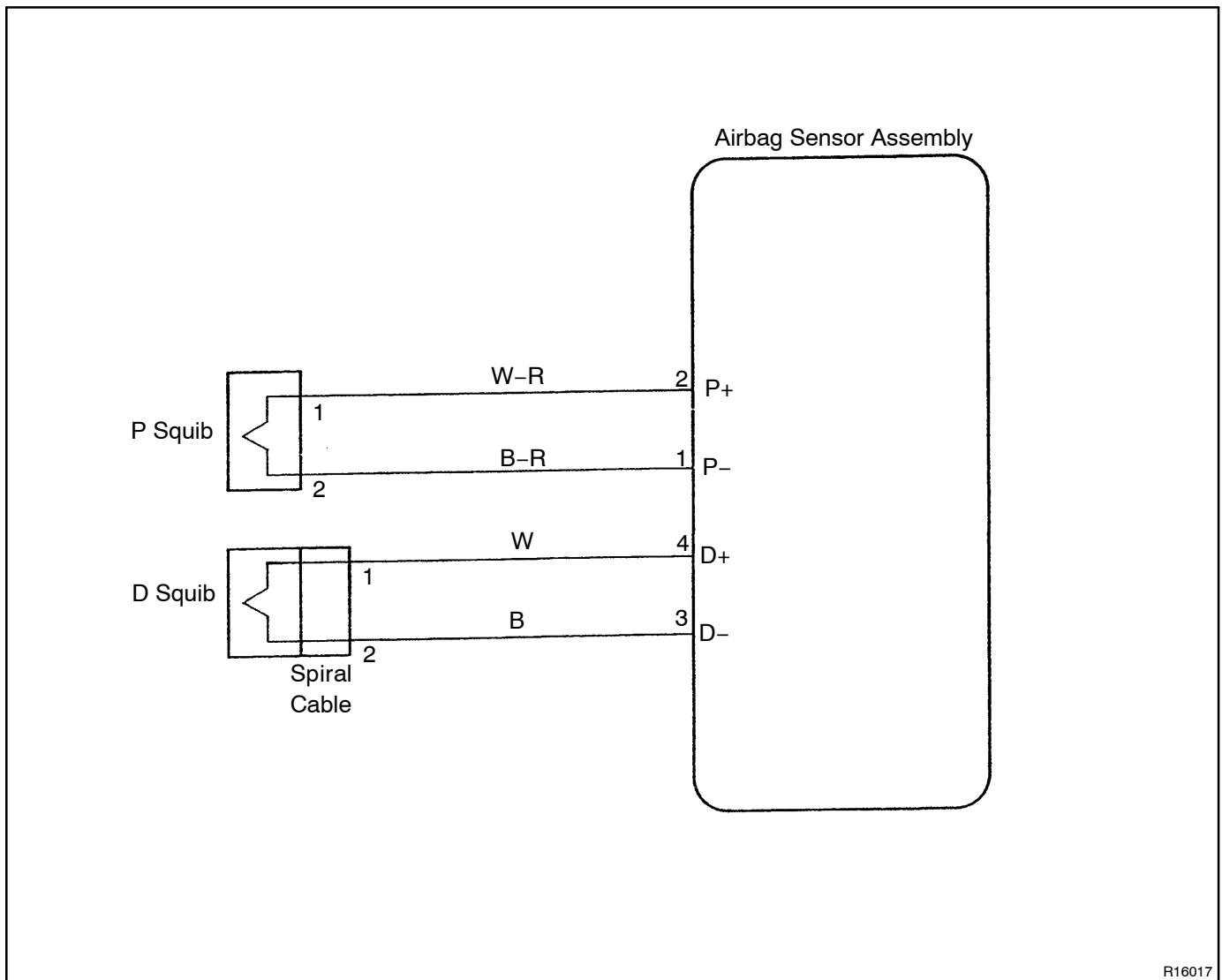
The squib circuit consists of the airbag sensor assembly, spiral cable, steering wheel pad and front passenger airbag assembly. It causes the SRS to deploy when the SRS deployment conditions are satisfied.

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

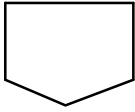
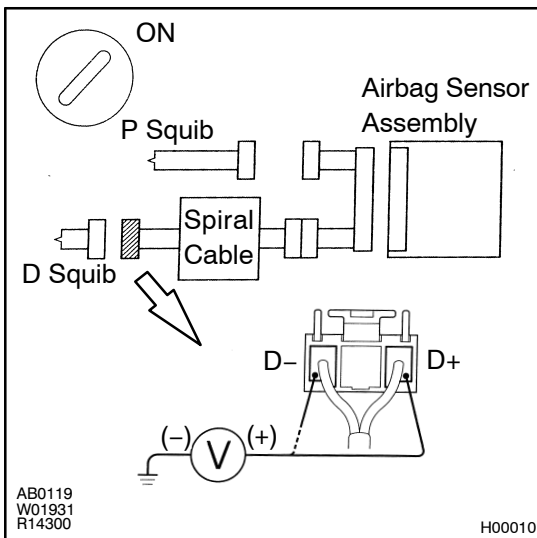
DTC 12 is recorded when a B+ short is detected in the squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
12	• Short circuit in squib wire harness (to B+) • 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



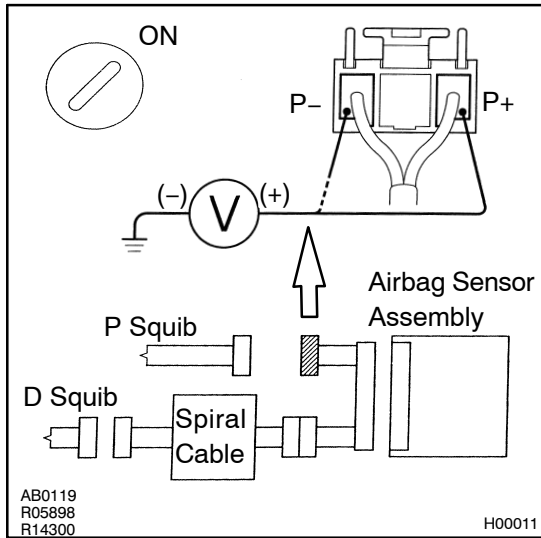
R16017

INSPECTION PROCEDURE**1** Preparation (See step 1 on page [DI-273](#)).**2** Check D squib circuit.**CHECK:**

For the connector (on the spiral cable side) between the spiral cable and steering wheel pad, measure the voltage between D+, D- and body ground.

OK:**Voltage: 0 V****NG****Go to step 7.****OK**

3 Check P squib circuit.



CHECK:

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

OK:

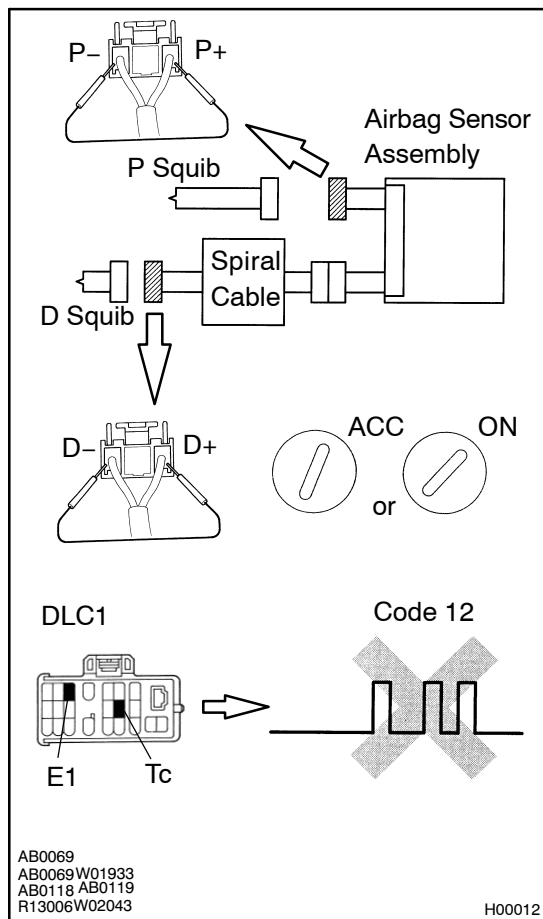
Voltage: 0 V

NG

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-241).
- 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 12 is not output.

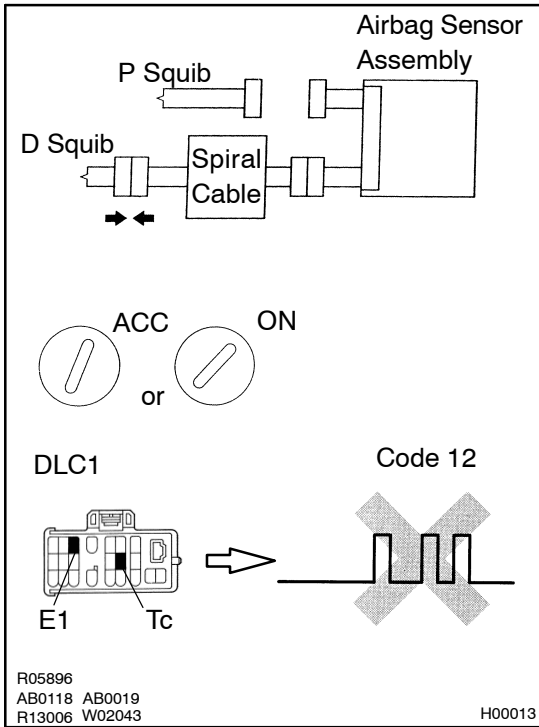
HINT:

Codes other than code 12 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:

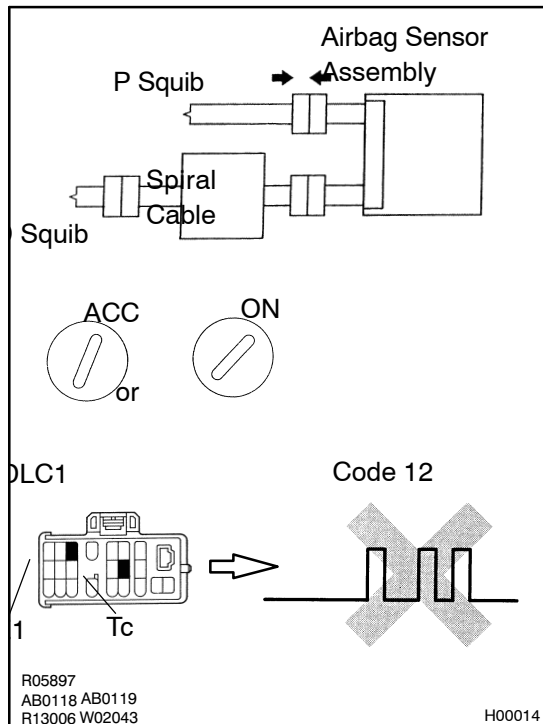
- Turn ignition switch to ACC or ON, and wait at least 20 seconds.
- Clear malfunction code stored in memory (See page [DI-241](#)).
- Turn ignition switch to LOCK, and wait at least 20 seconds.
- Turn ignition switch to ACC or ON, and wait at least 20 seconds.
- Using SST, connect terminals Tc and E1 of DLC1.
SST 09843-18020
- Check DTC.

OK:**DTC 12 is not output.****HINT:**

Codes other than code 12 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-241).
- 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 12 is not output.

HINT:

Codes other than code 12 may be output at this time, but they are not relevant to this check.

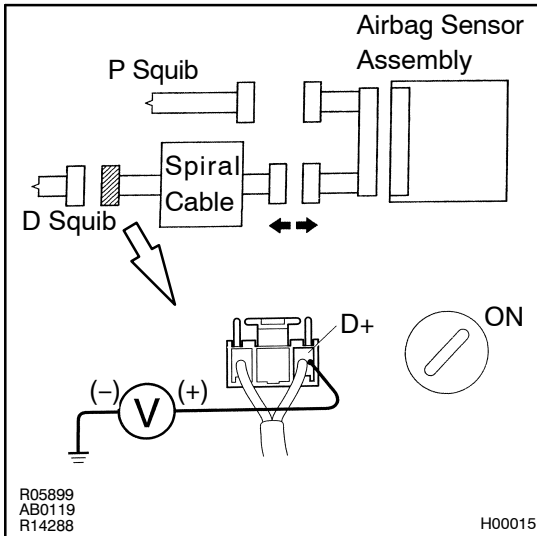
NG

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.

7 Check spiral cable.



PREPARATION:

- Turn ignition switch to LOCK.
- Disconnect connector between airbag sensor assembly and spiral cable.
- Turn ignition switch ON.

CHECK:

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

OK:

Voltage: 0 V

NG

Replace spiral cable.

OK

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