

DTC	B0107/51	Short in P Squib Circuit (to Ground)
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CIRCUIT DESCRIPTION

The P squib circuit consists of the airbag sensor assembly and the 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 OPERATION on page RS-3.

DTC B0107/51 is recorded when ground short is detected in the P squib circuit.

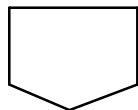
DTC No.	DTC Detecting Condition	Trouble Area
B0107/51	• Short in P squib circuit (to ground) • P squib malfunction • Airbag sensor assembly malfunction	• Front passenger airbag assembly (P squib) • Airbag sensor assembly • Dash wire

WIRING DIAGRAM

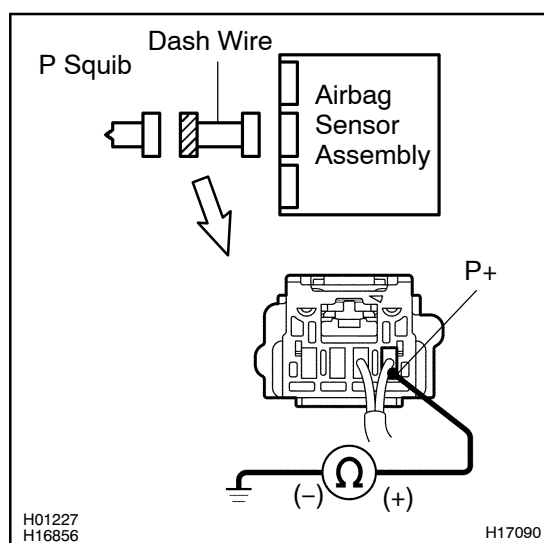
See page DI-732.

INSPECTION PROCEDURE

1	Prepare for inspection (See step 1 on page DI-923).
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2	Check dash wire (P squib circuit).
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CHECK:

Measure the resistance between the body ground and P+ of the dash wire connector on the front passenger airbag assembly (P squib) side.

OK:

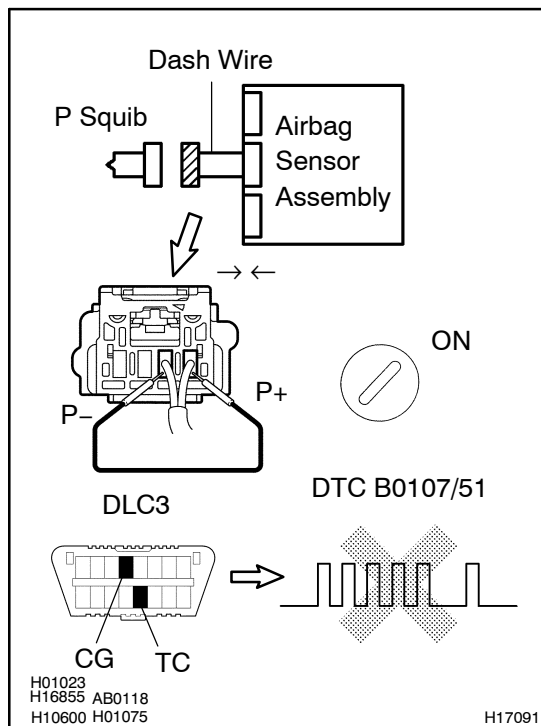
Resistance: 1 MΩ or Higher

NG

Replace dash wire.

OK

3 Check airbag sensor assembly.



PREPARATION:

- Connect the connector to the airbag sensor assembly.
- Using a service wire, connect P+ and P- of the dash wire connector on the front passenger airbag assembly (P squib) side.
- Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.

CHECK:

- Turn the ignition switch to ON, and wait at least for 10 seconds.
- Clear the DTC stored in memory (See page [DI-692](#)).
- Turn the ignition switch to LOCK, and wait at least for 10 seconds.
- Turn the ignition switch to ON, and wait at least for 10 seconds.
- Check the DTC (See page [DI-692](#)).

OK:

DTC B0107/51 is not output.

HINT:

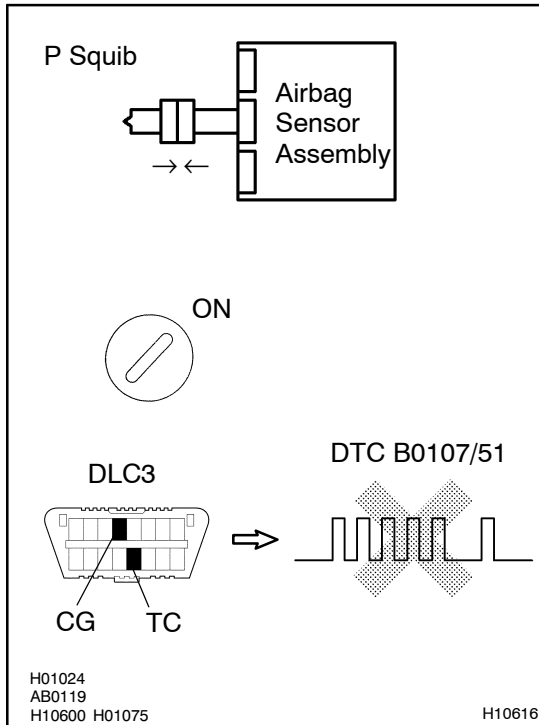
Codes other than code B0107/51 may be output at this time, but they are not relevant to this check.

NG

Replace airbag sensor assembly.

OK

4 Check P squib.



PREPARATION:

- Turn the ignition switch to LOCK.
- Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
- Connect the front passenger airbag assembly (P squib) connector.
- Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.

CHECK:

- Turn the ignition switch to ON, and wait at least for 10 seconds.
- Clear the DTC stored in memory (See page [DI-692](#)).
- Turn the ignition switch to LOCK, and wait at least for 10 seconds.
- Turn the ignition switch to ON, and wait at least for 10 seconds.
- Check the DTC (See page [DI-692](#)).

OK:

DTC B0107/51 is not output.

HINT:

Codes other than code B0107/51 may be output at this time, but they are not relevant to this check.

NG

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