DI6P8–02

DTC	B0106/54	Open in P Squib Circuit

CIRCUIT DESCRIPTION

The P squib circuit consists of the airbag sensor assembly 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 OPERATION on page RS–2.
DTC B0106/54 is recorded when an opening is detected in the P squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
B0106/54	• Open circuit in P+ or P– wire harness of squib • P squib malfunction • Airbag sensor assembly malfunction	• Passenger airbag manual on–off switch • Wire harness • Front passenger airbag assembly (P squib) • Airbag sensor assembly

WIRING DIAGRAM

See page DI–265.

INSPECTION PROCEDURE

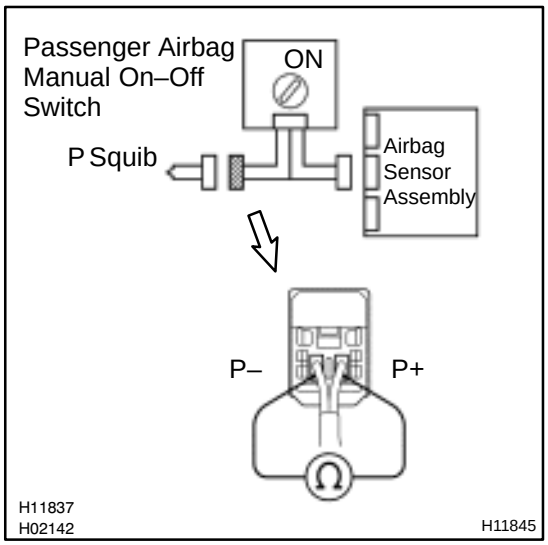
1	**Prepare for inspection (See step 1 on page DI–323).**

2	**Check passenger airbag manual on–off switch (See page RS–50).**

NG → **Replace passenger airbag manual on–off switch.**

OK

3	Check P squib circuit.



PREPARATION:

Turn the passenger airbag manual on–off switch ON.

CHECK:

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

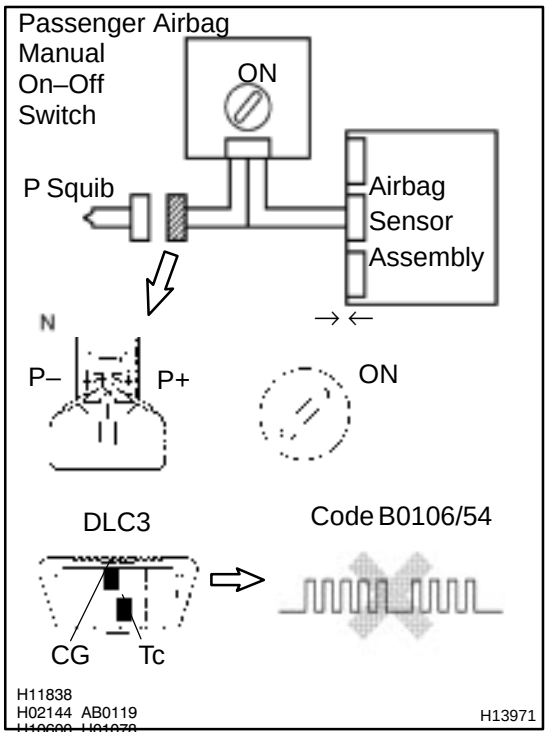
OK:

Resistance: Below 1 Ω

NG → **Repair or replace harness or connector between front passenger airbag assembly and airbag sensor assembly.**

OK

4	Check airbag sensor assembly.



PREPARATION:

(a) Turn the passenger airbag manual on–off switch ON.
(b) Connect the connector to the airbag sensor assembly.
(c) Using a service wire, connect terminals P+ and P– of the connector (on the front passenger airbag assembly side) between the front passenger airbag assembly and the airbag sensor assembly.
(d) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.

CHECK:

(a) Turn the ignition switch ON, and wait at least for 20 seconds.
(b) Clear the DTC stored in memory (See page DI–237).
(c) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(d) Turn the ignition switch ON, and wait at least for 20 seconds.
(e) Check the DTC (See page DI–237).

OK:

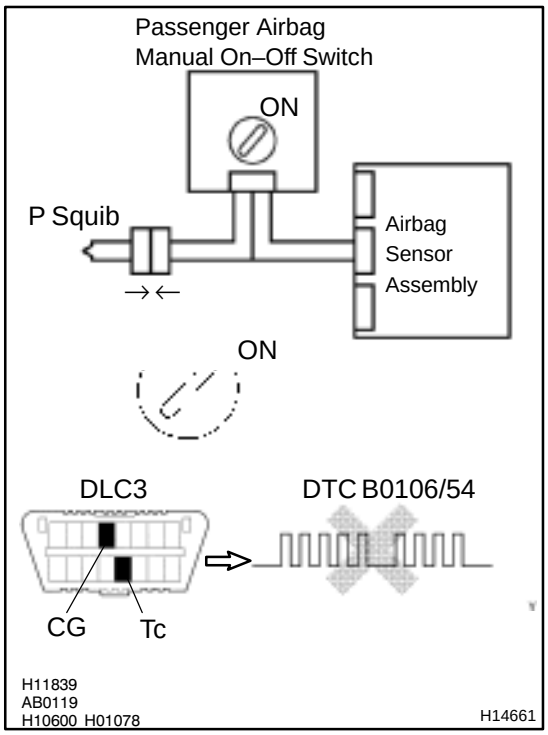
DTC B0106/54 is not output.

HINT:
Codes other than code B0106/54 may be output at this time, but they are not relevant to this check.

NG → **Replace airbag sensor assembly.**

OK

5	Check P squib.



PREPARATION:

(a) Turn the passenger airbag manual on–off switch ON.
(b) Turn the ignition switch to LOCK.
(c) Disconnect negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(d) Connect the front passenger airbag assembly connector.
(e) Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.

CHECK:

(a) Turn the ignition switch ON, and wait at least for 20 seconds.
(b) Clear the DTC stored in memory (See page DI–237).
(c) Turn the ignition switch to LOCK, and wait at least for 20 seconds.
(d) Turn the ignition switch ON, and wait at least for 20 seconds.
(e) Check the DTC (See page DI–237).

OK:

DTC B0106/54 is not output.

HINT:
Codes other than code B0106/54 may be output at this time, but they are not relevant to this check.

NG → **Replace front passenger airbag assembly.**

OK

From results of above inspection, suspected part can now be considered normal. To make sure of this, use simulation method to check.