DI23Z–02

DTC	B0117/45	Short in Side Squib (LH) Circuit (to Ground)

CIRCUIT DESCRIPTION

The side squib circuit consists of the airbag sensor assembly and side airbag assembly (LH).
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 B0117/45 is recorded when ground short is detected in the side squib (LH) circuit.

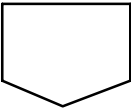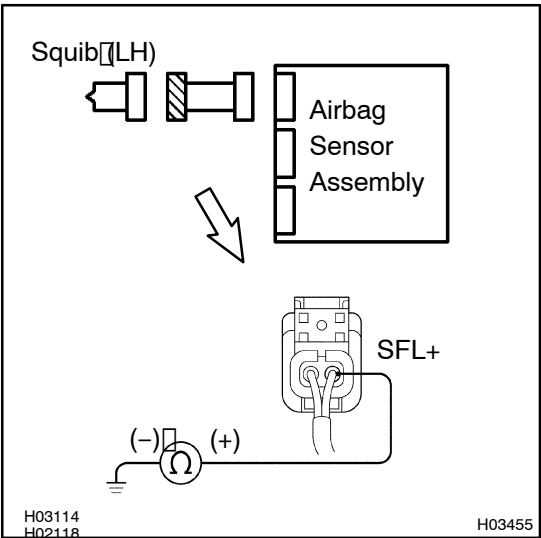| DTC No.	DTC Detecting Condition	Trouble Area
B0117/45	• Short circuit in side squib (LH) wire harness (to ground) • Side squib (LH) malfunction • Airbag sensor assembly malfunction	• Side airbag assembly (LH) • Airbag sensor assembly • Wire harness

WIRING DIAGRAM

See page DI–440.

INSPECTION PROCEDURE

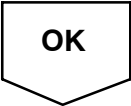| 1	Prepare for inspection. (See step 1 on page DI–503)

2	Check side squib (LH) circuit.

Squib (LH)

Airbag Sensor Assembly
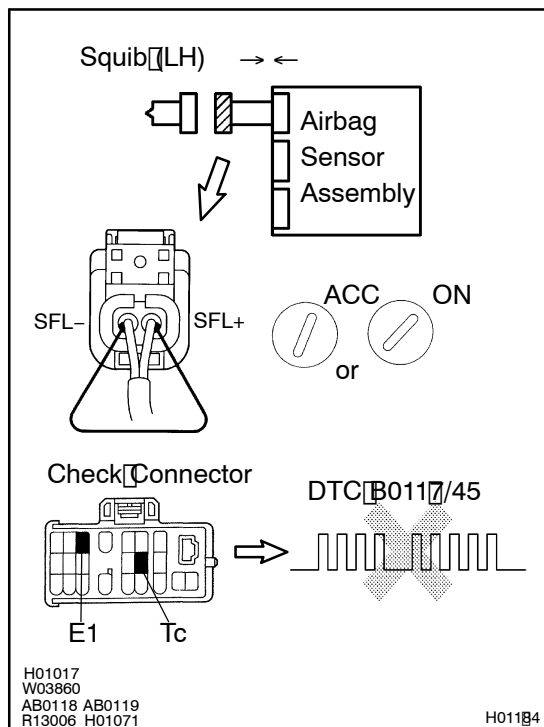
SFL+

(−) (+)

H03114
H02118
H03455

CHECK:
For the connector (on the airbag sensor assembly side) between the side airbag assembly (LH) and airbag sensor assembly, measure the resistance between SFL+ and body ground.
OK:
    Resistance: 1 MΩ or Higher

NG	Repair or replace harness or connector between the side airbag assembly (LH) and airbag sensor assembly.

OK

3	Check airbag sensor assembly.

Squib (LH) → ←

Airbag Sensor Assembly

SFL–   SFL+   ACC   ON   or

Check Connector   DTC B0117/45

E1   Tc

H01017
W03860
AB0118 AB0119
R13006 H01071   H01184

PREPARATION:
(a) Connect the connector to the airbag sensor assembly.
(b) Using a service wire, connect SFL+ and SFL– of the connector (on the side airbag assembly side) between the side airbag assembly (LH) and airbag sensor assembly.
(c) Connect negative (–) terminal cable to the battery, and wait at least for 2 seconds.

CHECK:
(a) Turn ignition switch to ACC or ON and wait at least for 20 seconds.
(b) Clear DTC stored in memory.
    (See step 5 on page DI–386)
(c) Turn ignition switch to LOCK, and wait at least for 20 seconds.
(d) Turn ignition switch to ACC or ON, and wait at least for 20 seconds.
(e) Check DTC.
    (See page DI–386)

OK:
    DTC B0117/45 is not output.

HINT:
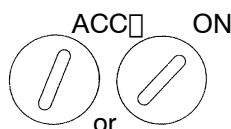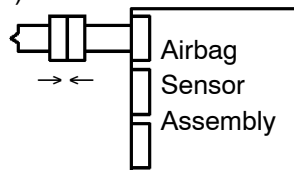Codes other than DTC B0117/45 may be output at this time, but they are not relevant to this check.
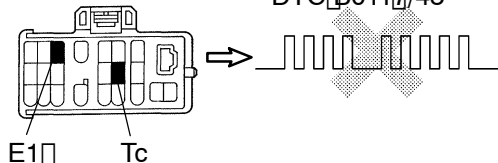
NG	Replace airbag sensor assembly.

OK

4	Check side squib (LH).

Squib (LH)

Airbag Sensor Assembly

ACC   ON

or

Check Connector   DTC B0117/45

E1   Tc

H01018
AB0118 AB0119
R13006 H01071   H01185

PREPARATION:
(a) Turn ignition switch to LOCK.
(b) Disconnect negative (−) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the side airbag assembly (LH) connector.
(d) Connect negative (−) terminal cable to the battery, and wait at least for 2 seconds.

CHECK:
(a) Turn ignition switch to ACC or ON, and wait at least for 20 seconds.
(b) Clear DTC stored in memory.
     (See step 5 on page DI−386)
(c) Turn ignition switch to LOCK, and wait at least for 20 seconds.
(d) Turn ignition switch to ACC or ON, and wait at least for 20 seconds.
(e) Check DTC.
     (See page DI−386)

OK:
    DTC B0117/45 is not output.

HINT:
Codes other than DTC B0117/45 may be output at this time, but they are not relevant to this check.

NG	Replace side airbag assembly (LH).

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.