DI246–02

DTC	B1156/15	Front Airbag Sensor Assembly (RH) Malfunction

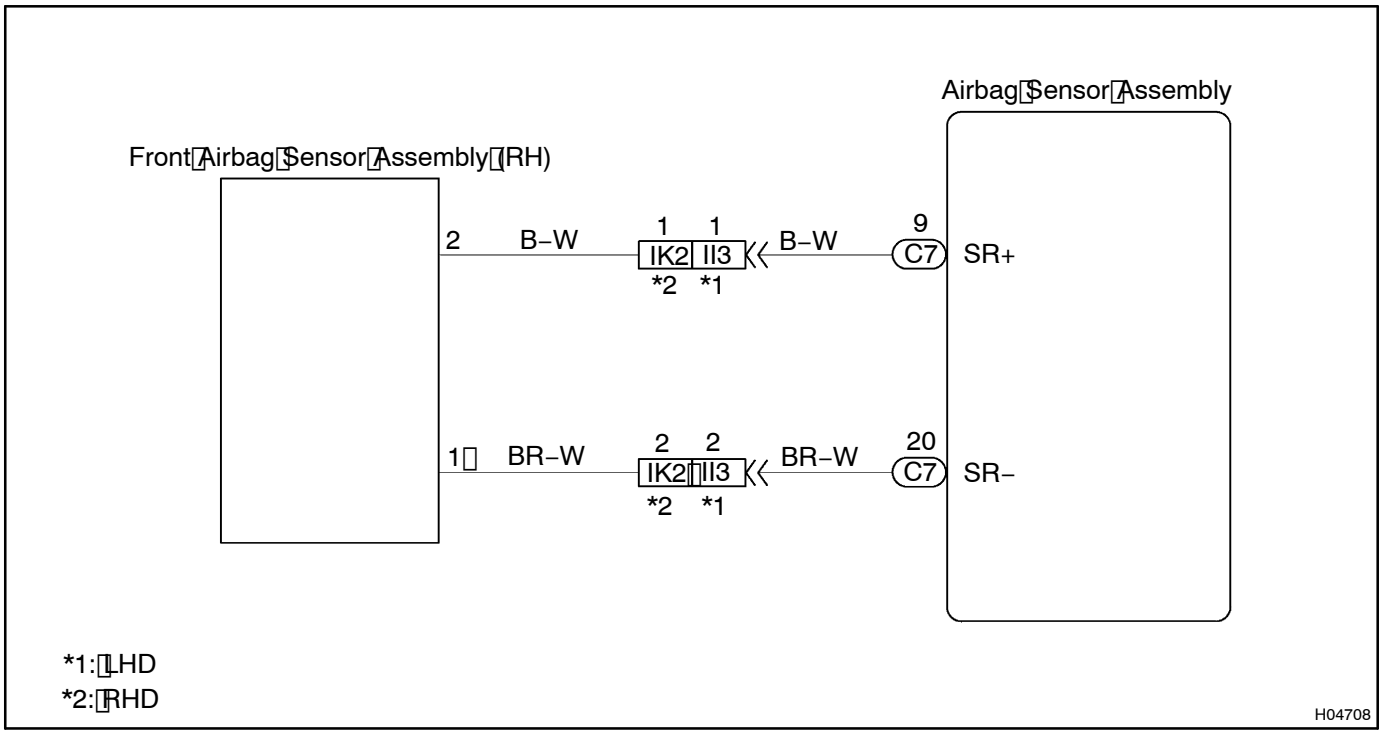
DTC	B1157/15	Front Airbag Sensor Assembly (RH) Malfunction

CIRCUIT DESCRIPTION

The front airbag sensor assembly (RH) circuit consists of the airbag sensor assembly and front airbag sensor assembly (RH).
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 B1156, B1157/15 is recorded when occurrence of a malfunction in the front airbag sensor assembly is detected.

DTC No.	DTC Detecting Condition	Trouble Area
B1156/15	• Open circuit between front sensor assembly (RH) and airbag sensor assembly • Short circuit in front sensor assembly (RH) (to B+) • Airbag sensor assembly malfunction	• Front airbag sensor assembly (RH) • Wire harness
B1157/15	• Short circuit between front sensor assembly (RH) and airbag sensor assembly • Short circuit between SR+ wire harness and SR– wire harness of squib • Airbag sensor assembly malfunction	• Front airbag sensor assembly (RH) • Wire harness

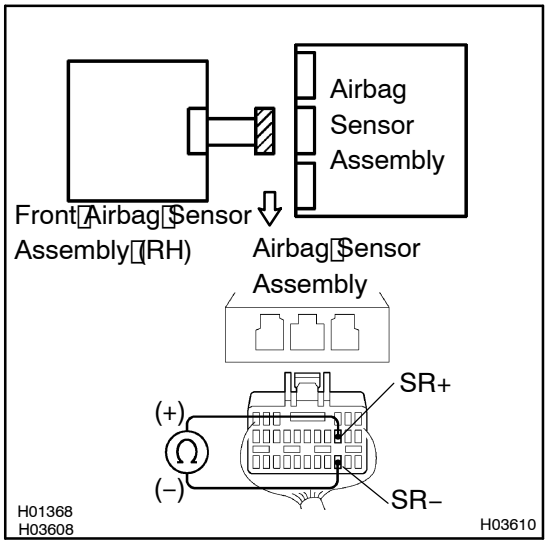
WIRING DIAGRAM



INSPECTION PROCEDURE

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

2	Check wire harness.



CHECK:

For the connector (on the airbag sensor side) between the front airbag sensor assembly (RH) and airbag sensor assembly, measure the resistance between SR+ and SR–.

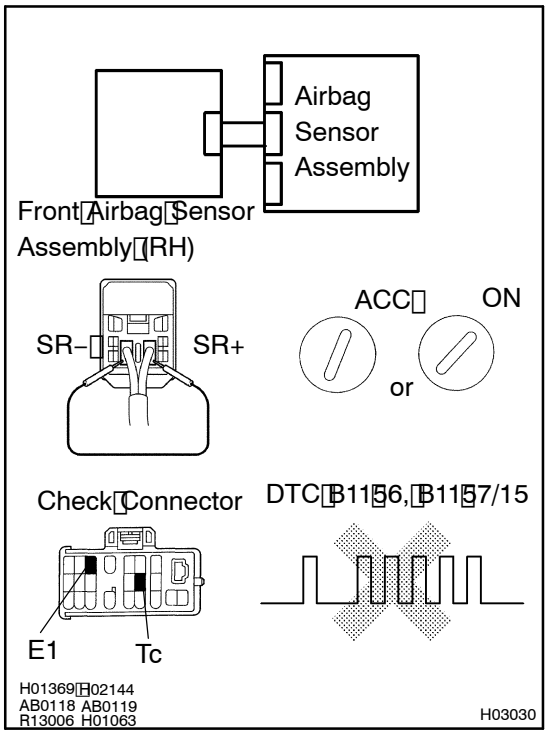
OK:

Resistance: 1MΩ or Higher

NG → **Repair or replace harness or connector between the front airbag sensor (RH) and airbag sensor assembly.**

OK

3	Check airbag sensor assembly.



PREPARATION:

(a) Connect the connector to the airbag sensor assembly.

(b) Using a service wire, connect SR+ and SR– on the connector (on the front airbag sensor assembly (RH)) between the front airbag sensor assembly (RH) and the 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 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:

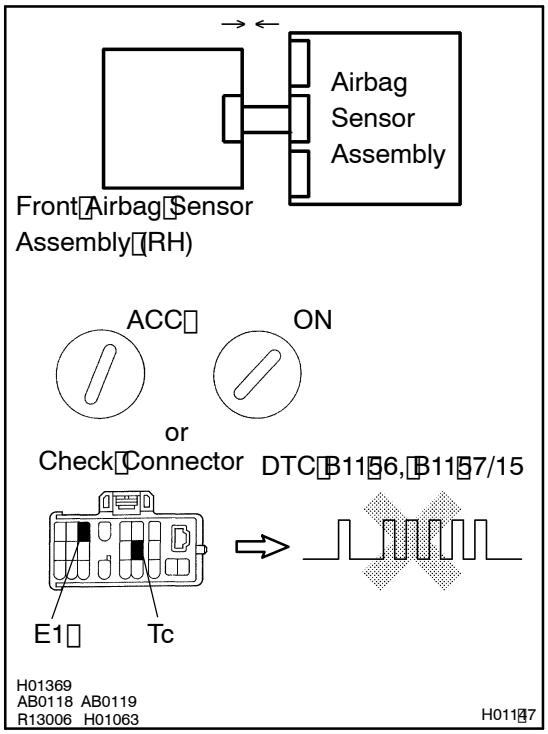
DTC B1156, B1157/15 is not output.

HINT:
Codes other than DTC B1156, B1157/15 may be output at this time, but they are not relevant to this check.

NG	Replace airbag sensor assembly.

OK

4	Check front airbag sensor assembly (RH).



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 front airbag sensor (RH) connector and airbag sensor assembly 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 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 B1156, B1157/15 is not output.

HINT:

Codes other than DTC B1156, B1157/15 may be output at this time, but they are not relevant to this check.

NG	Replace front airbag sensor assembly (RH).

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.