

DTC	B1156/B1157/15	Front Airbag Sensor (RH) Malfunction
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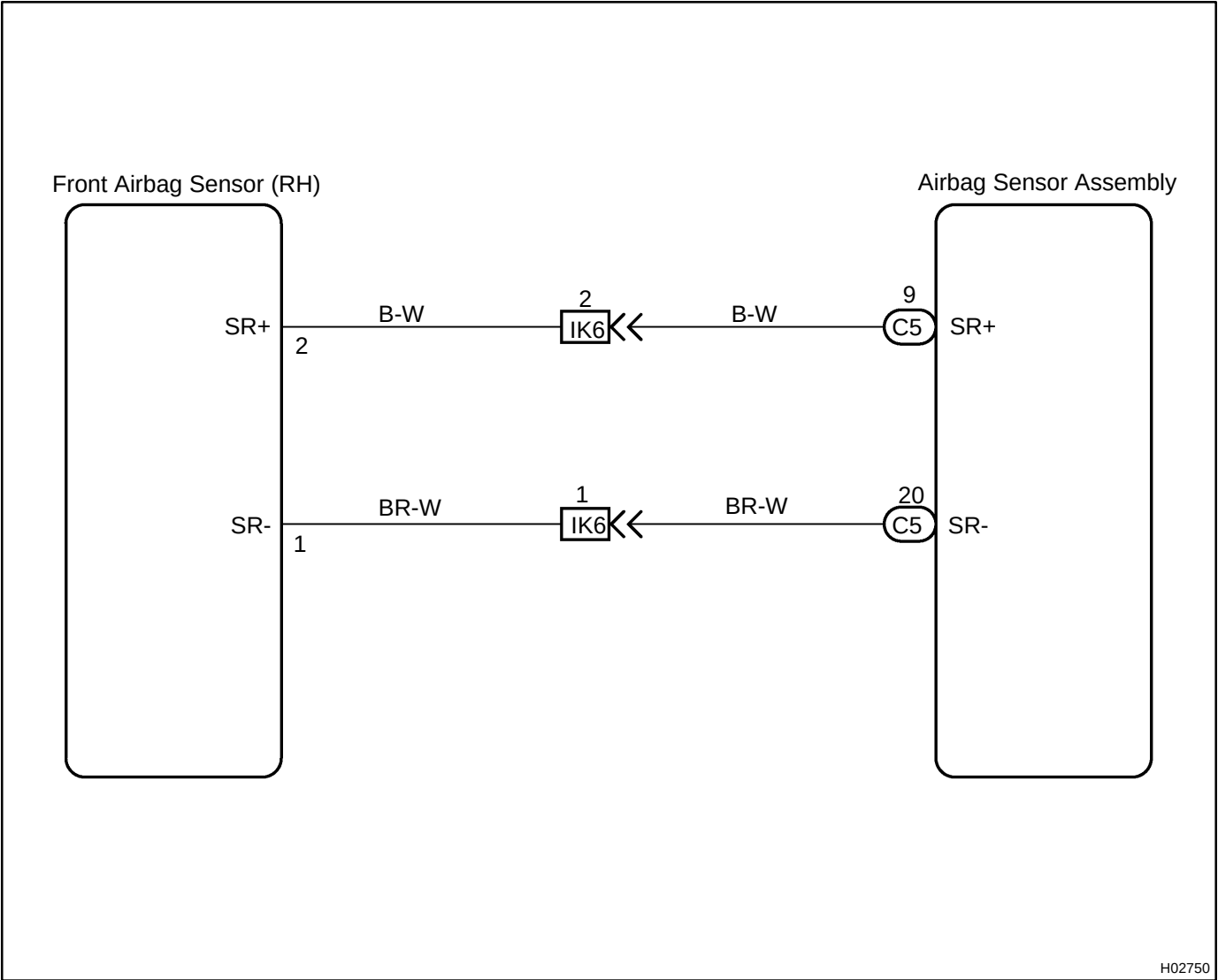
CIRCUIT DESCRIPTION

The front airbag sensor (RH) circuit consists of the airbag sensor assembly and front airbag sensor (RH). For details of the function of each component, see OPERATION on page [RS-2](#).

DTC B1156/B1157/15 is recorded when malfunction is detected in the front airbag sensor (RH) circuit.

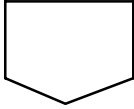
DTC No.	DTC Detecting Condition	Trouble Area
B1156/B1157/15	• Front airbag sensor (RH) malfunction	• Front airbag sensor (RH) • Airbag sensor assembly • Wire harness

WIRING DIAGRAM

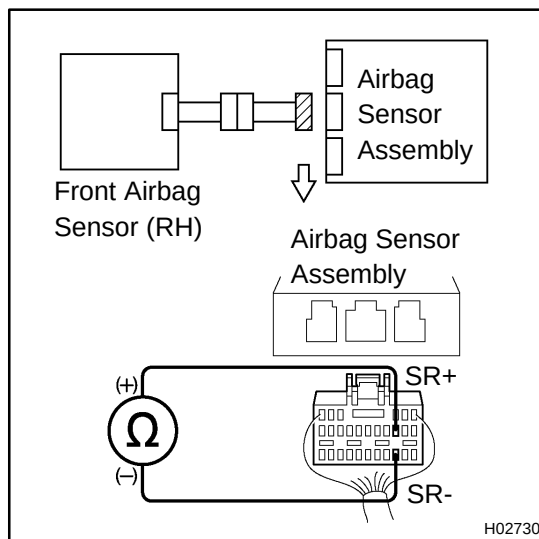


INSPECTION PROCEDURE

1 Prepare for inspection. (See step 1 on page [DI-486](#))



2 Check front airbag sensor (RH) circuit.

**CHECK:**

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

OK:

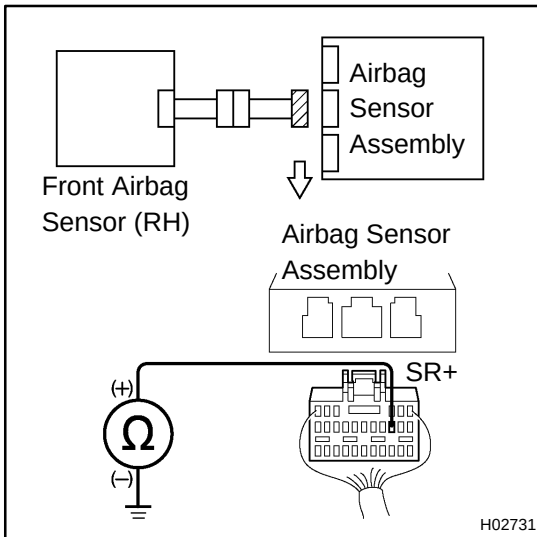
Resistance: 754 - 886 Ω

NG

Go to step 6.

OK

3 Check front airbag sensor (RH) circuit (to ground).



CHECK:

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

OK:

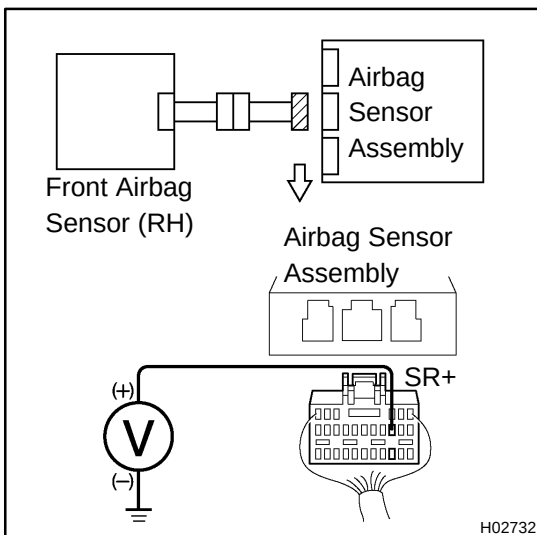
Resistance: 1 MΩ or Higher

NG

Go to step 9.

OK

4 Check front airbag sensor (RH) circuit (to B+).



PREPARATION:

Connect negative (-) terminal cable to the battery, and wait at least for 2 seconds.

CHECK:

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

OK:

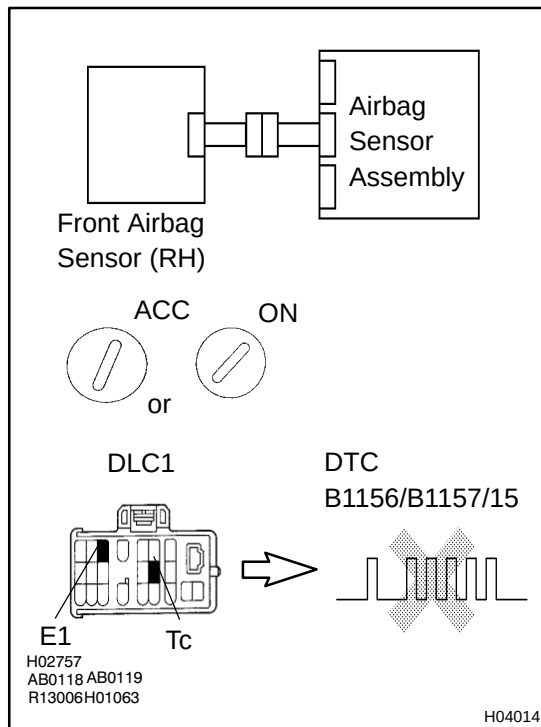
Voltage: Below 1 V

NG

Go to step 11.

OK

5 Check airbag sensor assembly.



PREPARATION:

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

CHECK:

- Turn ignition switch to ACC or ON, and wait at least for 20 seconds.
- Clear DTC stored in memory (See page [DI-358](#)).
- Turn ignition switch to LOCK, and wait at least for 20 seconds.
- Turn ignition switch to ACC or ON, and wait at least for 20 seconds.
- Check DTC (See page [DI-358](#)).

OK:

DTC B1156/B1157/15 is not output.

HINT:

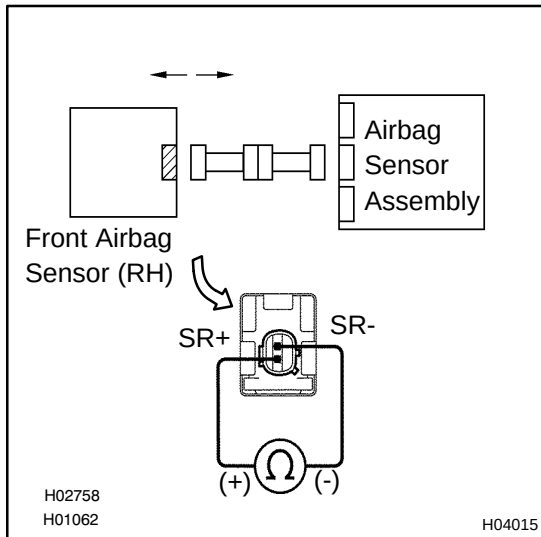
Codes other than DTC B1156/B1157/15 may be output at this time, but they are not relevant to this check.

NG

Replace airbag sensor assembly.

OK

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.

6 Check front airbag sensor (RH).**PREPARATION:**

Disconnect the front airbag sensor connector (RH).

CHECK:

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

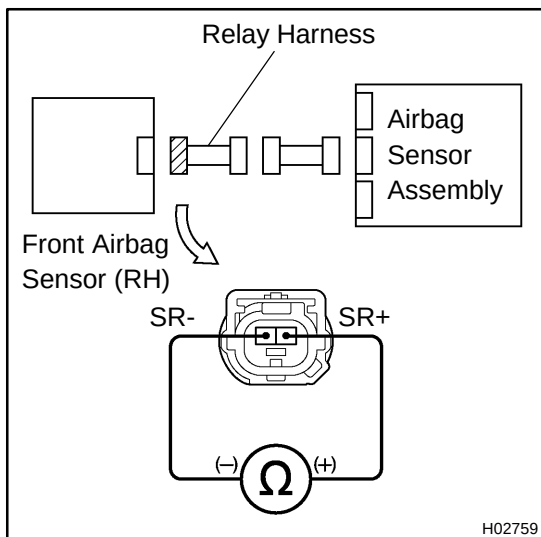
OK:

Resistance: 754 - 886 Ω

NG

Replace front airbag sensor (RH).

OK

7 Check relay harness.**PREPARATION:**

Disconnect the relay harness connector on the airbag sensor assembly side.

CHECK:

For the connector (on the relay harness side) between the front airbag sensor (RH) and the relay harness, measure the resistance between SR+ and SR-.

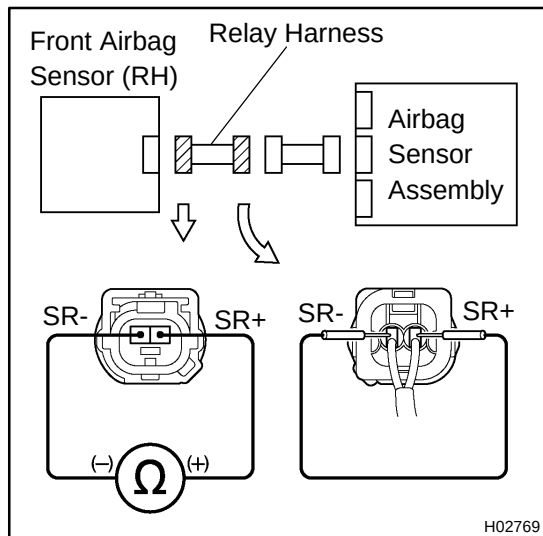
OK:

Resistance: 1 MΩ or Higher

NG

Repair or replace relay harness.

OK

8 Check relay harness.**PREPARATION:**

Using service wire, connect SR+ and SR- of the connector (on the relay harness side), between the airbag sensor assembly and the relay harness.

CHECK:

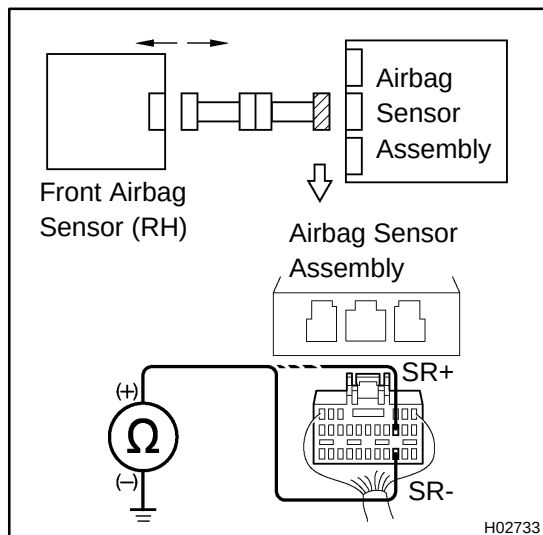
For the connector (on the relay harness side) between the front airbag sensor (RH) and the relay harness, measure the resistance between SR+ and SR-.

OK:

Resistance: Below 1 Ω

NG**Repair or replace relay harness.****OK**

Repair or replace harness or connector between airbag sensor assembly and relay harness.

9 Check wire harness (to ground).**PREPARATION:**

Disconnect the front airbag sensor connector (RH).

CHECK:

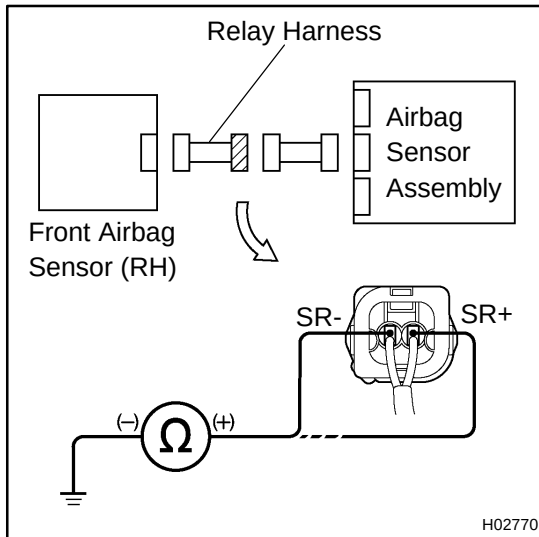
For the connector (on the airbag sensor assembly side) between the front airbag sensor (RH) and the airbag sensor assembly, measure the resistance between body ground and each of SR+ and SR-.

OK:

Resistance: 1 MΩ or Higher

NG**Go to step 9.****OK**

Replace front airbag sensor (RH).

10 Check relay harness (to ground).**PREPARATION:**

Disconnect the relay harness connector on the airbag sensor assembly side.

CHECK:

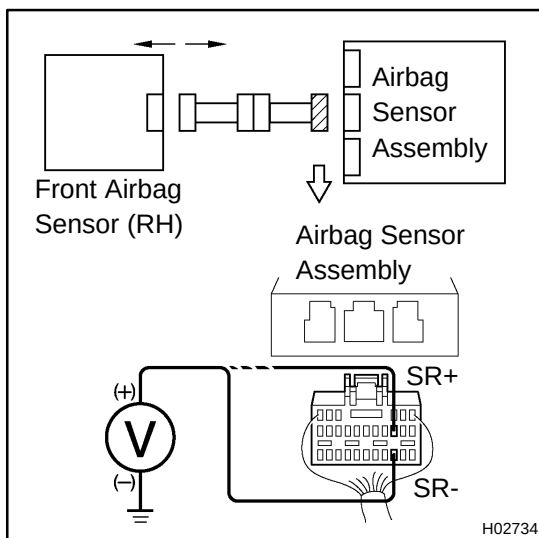
For the connector (on the relay harness side) between the front airbag sensor (RH) and the relay harness, measure the resistance between body ground and each of SR+ and SR-.

OK:

Resistance: Below 1 MΩ or Higher

NG**Repair or replace relay harness.****OK**

Repair or replace harness or connector between airbag sensor assembly and relay harness.

11 Check wire harness (to B+).**PREPARATION:**

Disconnect the front airbag sensor connector (RH).

CHECK:

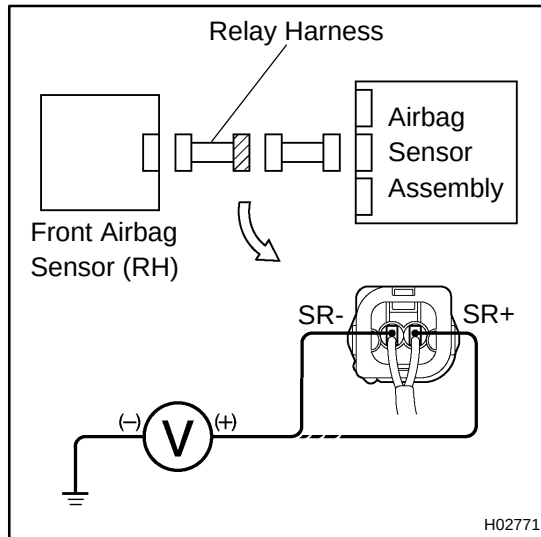
For the connector (on the airbag sensor assembly side) between the front airbag sensor (RH) and the airbag sensor assembly, measure the voltage between body ground and each of SR+ and SR-.

OK:

Voltage: Below 1 V

NG**Go to step 11.****OK**

Replace front airbag sensor (RH).

12 Check relay harness (to B+).**PREPARATION:**

Disconnect the relay harness connector on the airbag sensor assembly side.

CHECK:

For the connector (on the relay harness side) between the front airbag sensor (RH) and the relay harness, measure the voltage between body ground and each of SR+ and SR-.

OK:

Voltage: Below 1 V

NG

Repair or replace relay harness.

OK

Repair or replace harness or connector between airbag sensor assembly and relay harness.