

<b>DTC</b>	<b>B1156/B1157/15</b>	<b>Front Airbag Sensor (RH) Malfunction</b>
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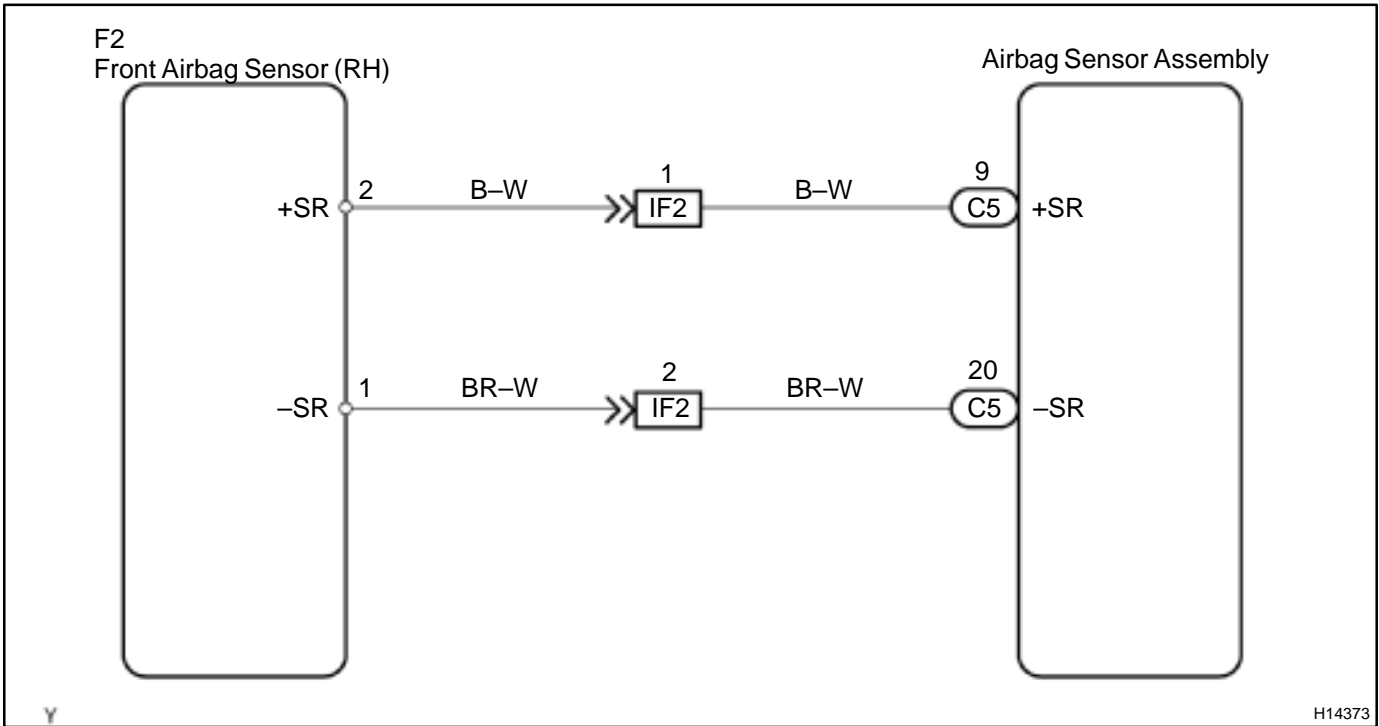
### CIRCUIT DESCRIPTION

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 a malfunction is detected in the front airbag sensor (RH) circuit.

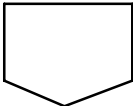
DTC No.	DTC Detection Condition	Trouble Area
B1156/B1157/15	• Front airbag sensor (RH) malfunction	<ul style="list-style-type: none"> <li>• Wire harness</li> <li>• Front airbag sensor (RH)</li> <li>• Airbag sensor assembly</li> </ul>

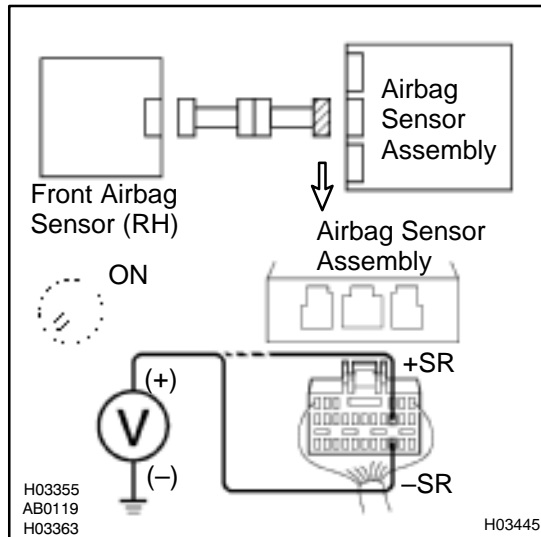
### WIRING DIAGRAM



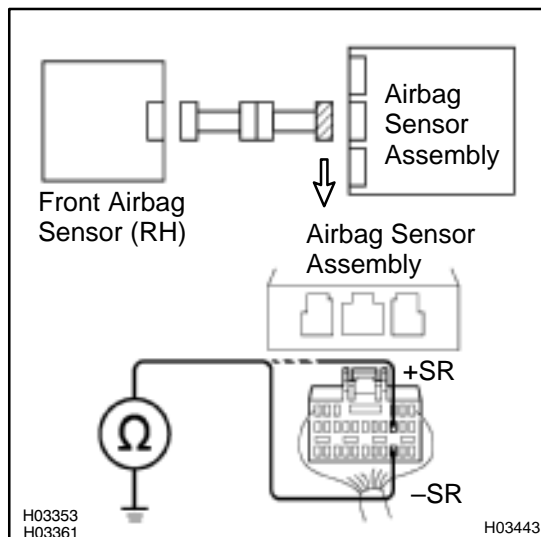
### INSPECTION PROCEDURE

<b>1</b>	<b>Prepare for inspection (See step 1 on page <a href="#">DI-323</a>).</b>
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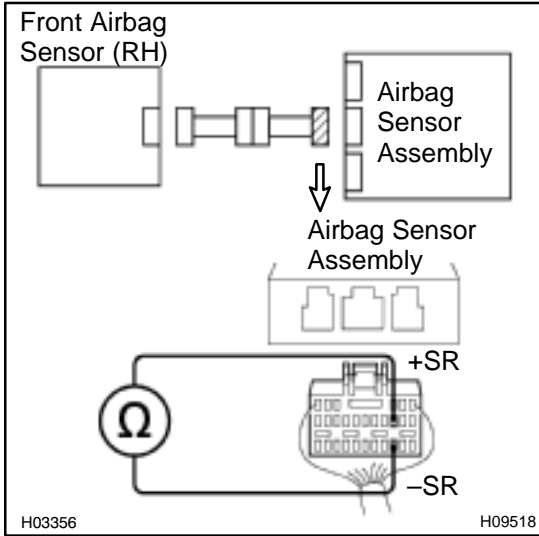
**2 Check wire harness (to B+).****CHECK:**

- (a) Turn the ignition switch ON.
- (b) 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 terminals +SR and –SR.

**OK:****Voltage: Below 1 V****NG****Go to step 8.****OK****3 Check wire harness (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 body ground and each of terminals +SR and –SR.

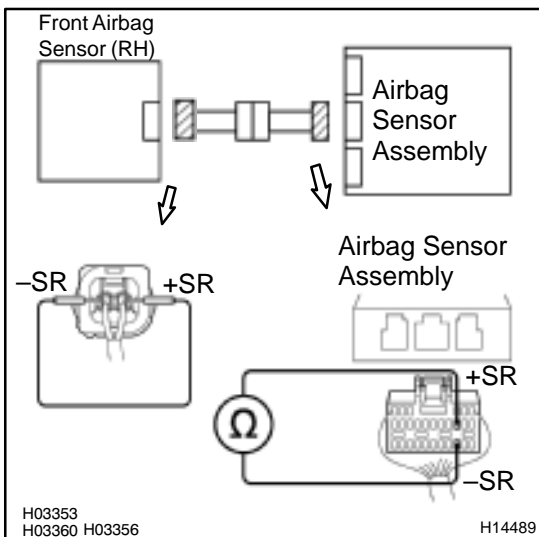
**OK:****Resistance: 1 MΩ or Higher****NG****Go to step 9.****OK**

**4 Check wire harness.****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 terminals +SR and -SR.

**OK:**

**Resistance: 1 MΩ or Higher**

**NG****Go to step 10.****OK****5 Check wire harness.****PREPARATION:**

Using a service wire, connect terminals +SR and -SR of the connector (on the front airbag sensor (RH) side) between the airbag sensor assembly and the front airbag sensor (RH).

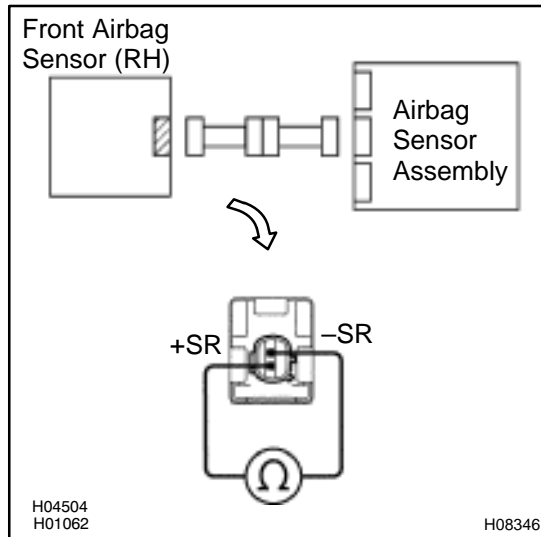
**CHECK:**

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

**OK:**

**Resistance: Below 1 Ω**

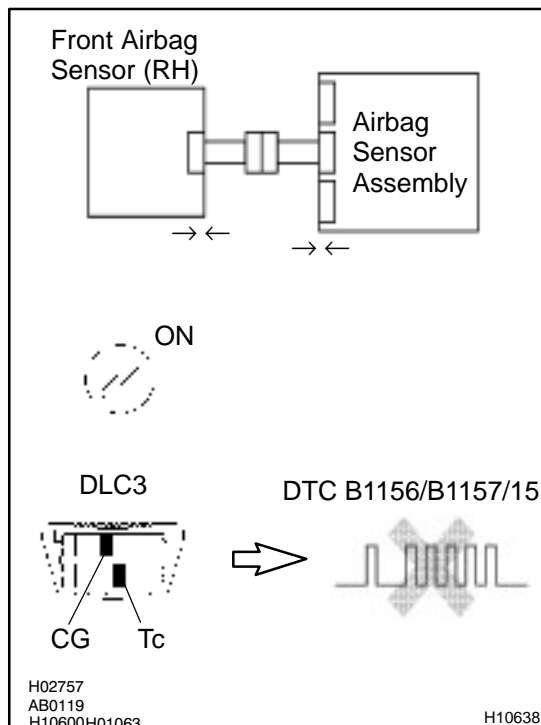
**NG****Go to step 11.****OK**

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

For the connector of the front airbag sensor (RH), measure the resistance between terminals +SR and -SR.

**OK:**

**Resistance: 300 – 1,500 Ω**

**NG****Replace front airbag sensor (RH).****OK****7 Check airbag sensor assembly.****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 airbag sensor (RH) connector and airbag sensor assembly connector.
- Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.

**CHECK:**

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

**OK:**

**DTC B1156/B1157/15 is not output.**

**HINT:**

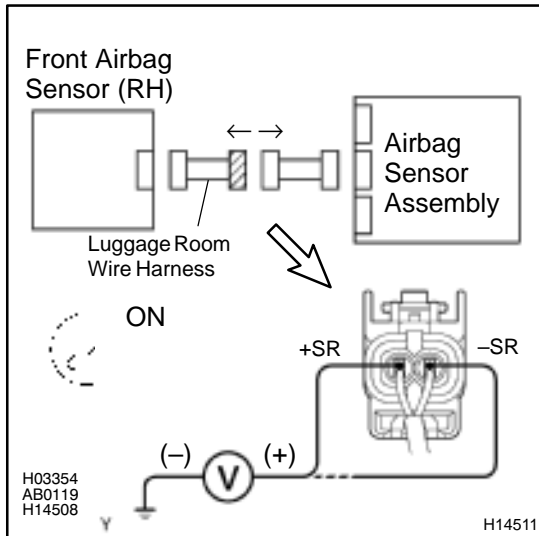
Codes other than code B1156/B1157/15 may be output at this time, but they are not relevant to this check.

**NG****Replace airbag sensor assembly.**

OK

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

## 8 Check luggage room wire harness (to B+).



### PREPARATION:

Disconnect the luggage room wire harness connector on the airbag sensor assembly side.

### CHECK:

- Turn the ignition switch ON.
- For the connector (on the airbag sensor assembly side) of the luggage room wire harness, measure the voltage between body ground and each of terminals +SR and -SR.

### OK:

Voltage: Below 1 V

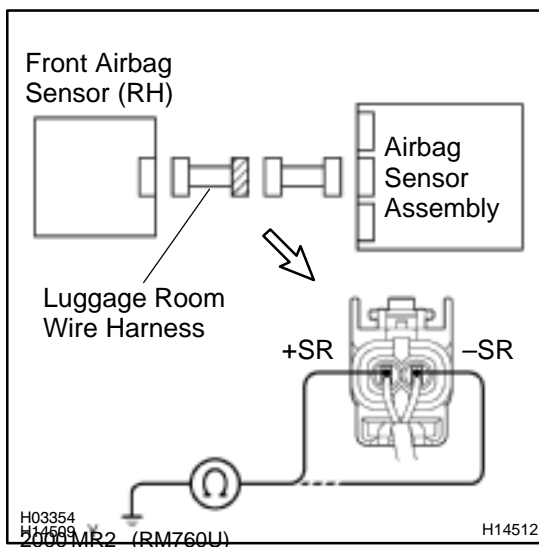
NG

Repair or replace luggage room wire harness.

OK

Repair or replace harness or connector between airbag sensor assembly and luggage room wire harness.

## 9 Check luggage room wire harness (to ground).



### CHECK:

For the connector (on the airbag sensor assembly side) of the luggage room wire harness, measure the resistance between body ground and each of terminals +SR and -SR.

### OK:

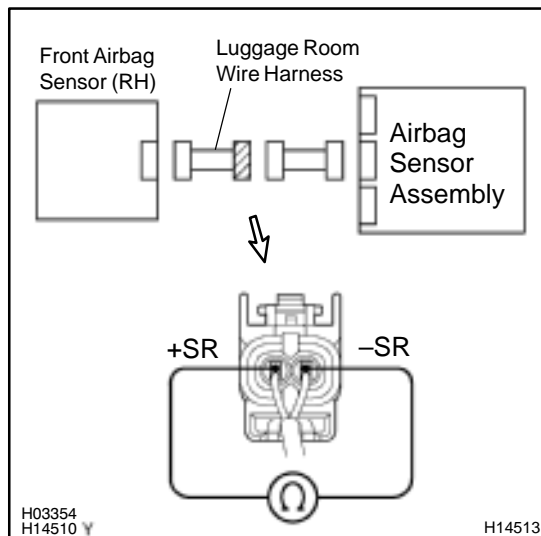
Resistance: 1 MΩ or Higher

NG

Repair or replace luggage room wire harness.

**OK**

**Repair or replace harness or connector between airbag sensor assembly and luggage room wire harness.**

**10 Check luggage room wire harness.****CHECK:**

For the connector (on the airbag sensor assembly side) of the luggage room wire harness, measure the resistance between terminals +SR and –SR.

**OK:**

**Resistance: 1 MΩ or Higher**

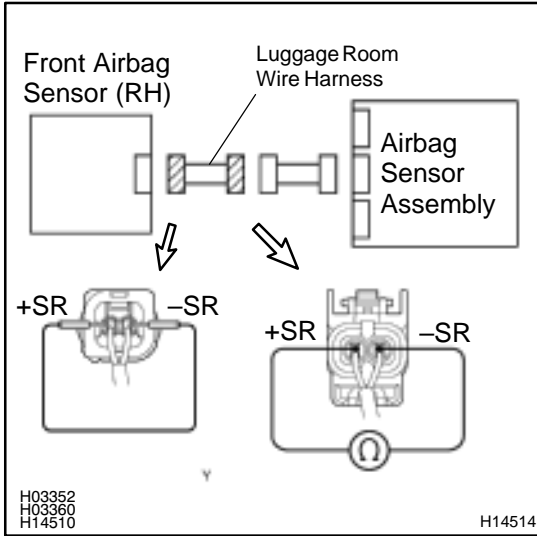
**NG**

**Repair or replace luggage room wire harness.**

**OK**

**Repair or replace harness or connector between airbag sensor assembly and luggage room wire harness.**

# 11 Check luggage room wire harness.



## PREPARATION:

Using a service wire, connect terminals +SR and –SR of the connector (on the front airbag sensor (RH) side) of the luggage room wire harness.

## CHECK:

For the connector (on the airbag sensor assembly side) of the luggage room wire harness, measure the resistance between terminals +SR and –SR.

## OK:

**Resistance: Below 1  $\Omega$**

**NG**

**Repair or replace luggage room wire harness.**

**OK**

**Repair or replace harness or connector between airbag sensor assembly and luggage room wire harness.**