

<b>DTC</b>	<b>B1158/B1159/16</b>	<b>Front Airbag Sensor (LH) Malfunction</b>
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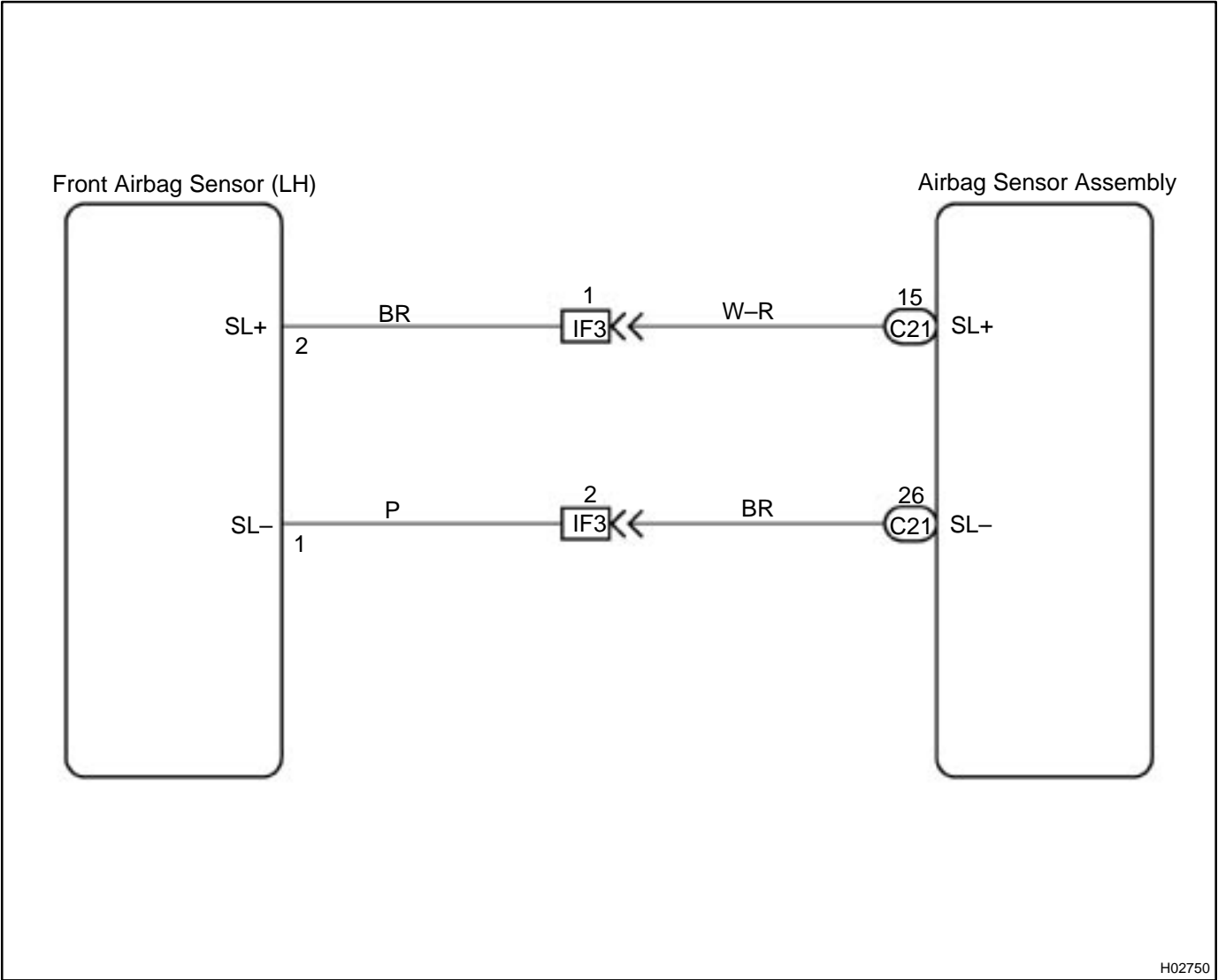
### CIRCUIT DESCRIPTION

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

DTC B1158/B1159/15 is recorded when malfunction is detected in the front airbag sensor (LH) circuit.

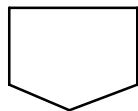
DTC No.	DTC Detecting Condition	Trouble Area
B1158/B1159/16	• Front airbag sensor (LH) malfunction	<ul style="list-style-type: none"> <li>• Front airbag sensor (LH)</li> <li>• Airbag sensor assembly</li> <li>• Wire harness</li> <li>• Cowl wire harness</li> </ul>

### WIRING DIAGRAM

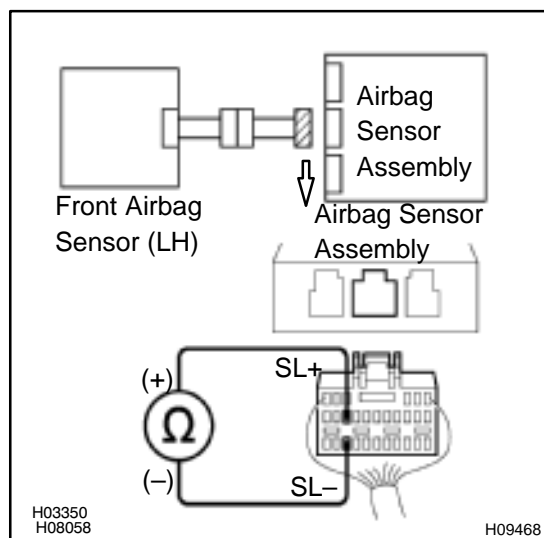


**INSPECTION PROCEDURE**

**1** Prepare for inspection. (See step 1 on page [DI-543](#))



**2** Check front airbag sensor (LH) circuit.

**CHECK:**

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

**OK:**

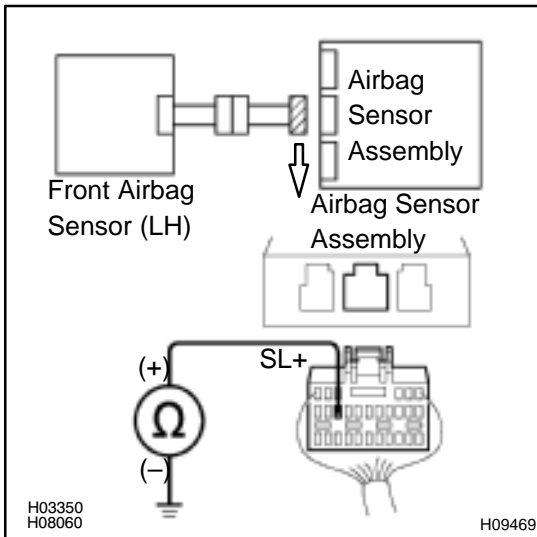
**Resistance: 754 – 886  $\Omega$**

**NG**

**Go to step 6.**

**OK**

### 3 Check front airbag sensor (LH) circuit (to ground).



#### **CHECK:**

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

#### **OK:**

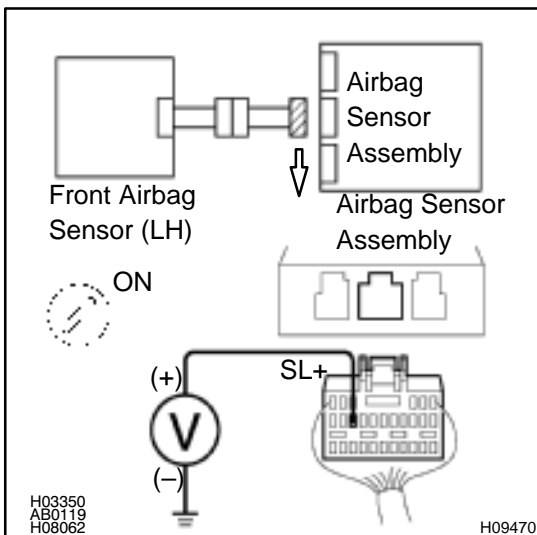
**Resistance: 1 MΩ or Higher**

**NG**

**Go to step 9.**

**OK**

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



#### **PREPARATION:**

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

#### **CHECK:**

- Turn ignition switch to ON.
- For the connector (on the airbag sensor assembly side) between the front airbag sensor (LH) and the airbag sensor assembly, measure the voltage between SL+ and body ground.

#### **OK:**

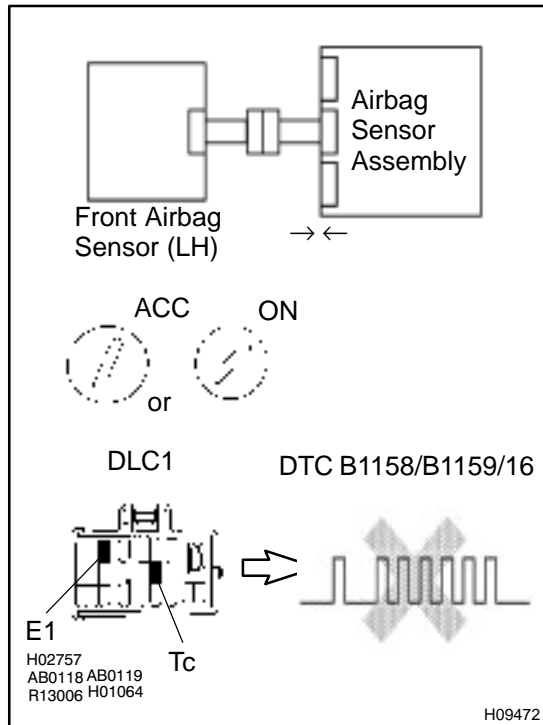
**Voltage: Below 1 V**

**NG**

**Go to step 7.**

**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 (LH) 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-456](#))
- 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-456](#))

### OK:

**DTC B1158/B1159/16 is not output.**

### HINT:

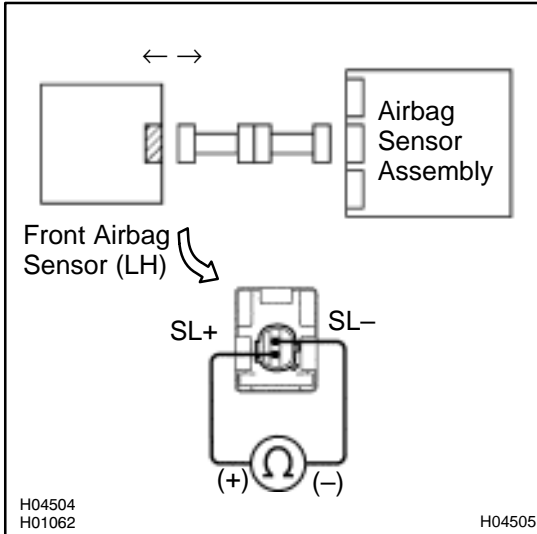
Codes other than code B1158/B1159/16 may be output at this time, but they are not relevant to this check.

**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.**

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

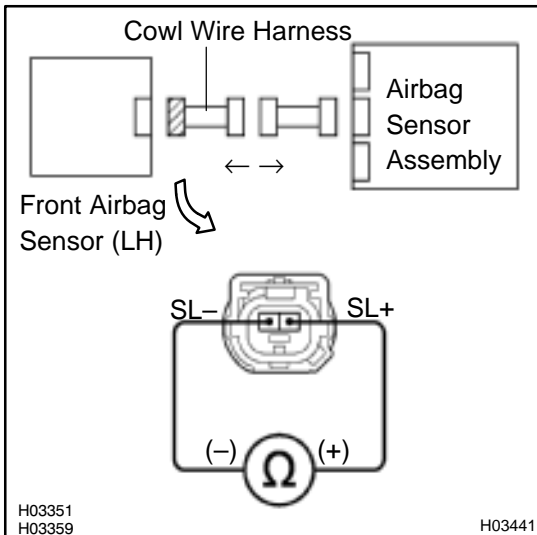
Disconnect the front airbag sensor connector (LH).

**CHECK:**

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

**OK:**

**Resistance: 754 – 886 Ω**

**NG****Replace front airbag sensor (LH).****OK****7 Check cowl wire harness.****PREPARATION:**

Disconnect the cowl wire harness connector on the airbag sensor assembly side.

**CHECK:**

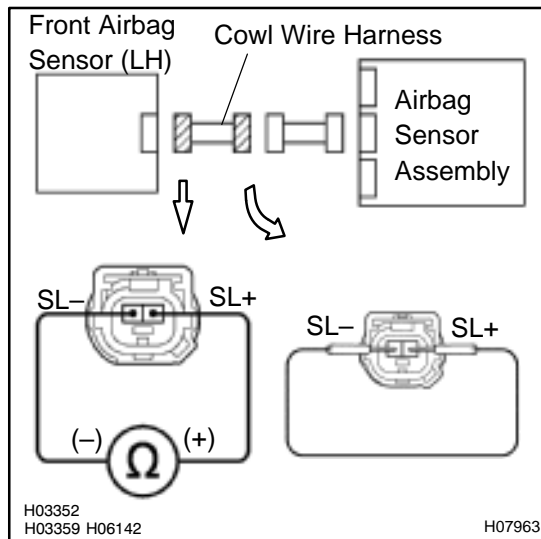
For the connector (on the cowl wire harness side) between the front airbag sensor (LH) and the cowl wire harness, measure the resistance between SL+ and SL-.

**OK:**

**Resistance: 1 MΩ or Higher**

**NG****Repair or replace cowl wire harness.****OK**

# 8 Check cowl wire harness.



## PREPARATION:

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

## CHECK:

For the connector (on the cowl wire harness side) between the front airbag sensor (LH) and the cowl wire harness, measure the resistance between SL+ and SL-.

## OK:

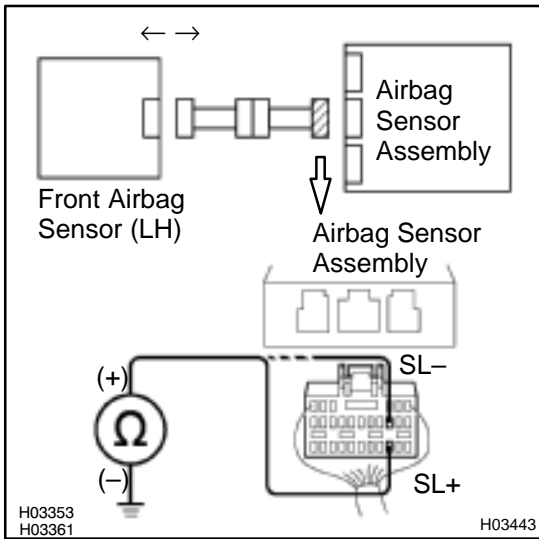
**Resistance: Below 1 Ω**

**NG**

**Repair or replace cowl wire harness.**

**OK**

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

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

Disconnect the front airbag sensor connector (LH).

**CHECK:**

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

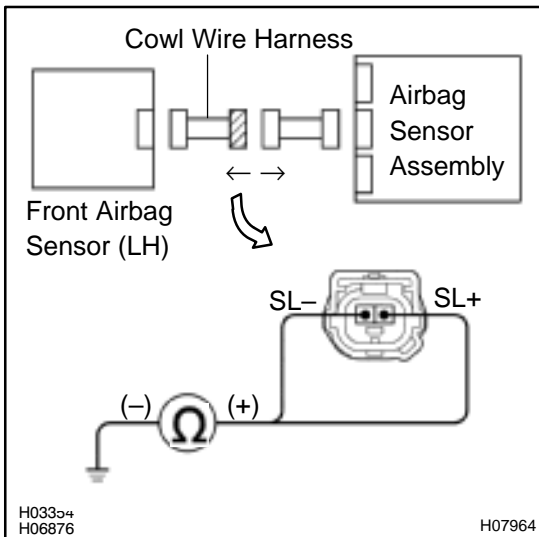
**OK:**

**Resistance: 1 MΩ or Higher**

**OK**

**Replace front airbag sensor (LH).**

**NG**

**10 Check cowl wire harness (to ground).****PREPARATION:**

Disconnect the cowl wire harness connector on the airbag sensor assembly side.

**CHECK:**

For the connector (on the cowl wire harness side) between the front airbag sensor (LH) and the cowl wire harness, measure the resistance between body ground and each of SL+ and SL-.

**OK:**

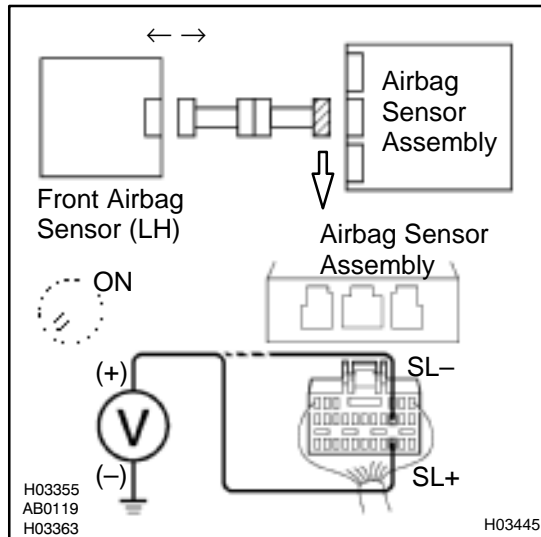
**Resistance: 1 MΩ or Higher**

**NG**

**Repair or replace cowl wire harness.**

**OK**

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

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

- (a) Disconnect the front airbag sensor connector (LH).
- (b) Turn ignition switch to ON.

**CHECK:**

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

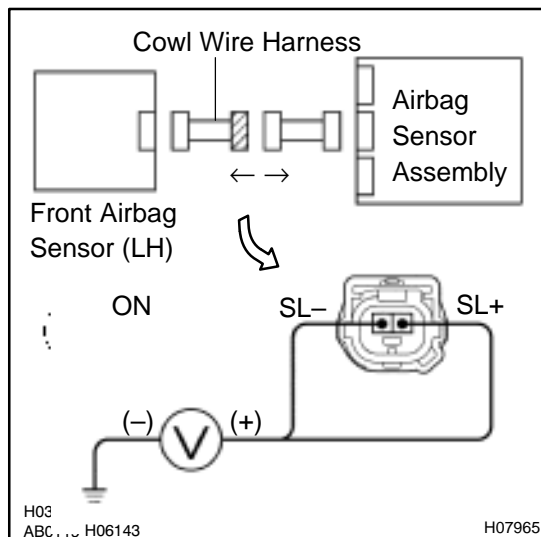
**OK:**

**Voltage: Below 1 V**

**OK**

**Replace front airbag sensor (LH).**

**NG**

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

Disconnect the cowl wire harness connector on the airbag sensor assembly side.

**CHECK:**

For the connector (on the cowl wire harness side) between the front airbag sensor (LH) and the cowl wire harness, measure the voltage between body ground and each of SL+ and SL-.

**OK:**

**Voltage: Below 1 V**

**NG**

**Repair or replace cowl wire harness.**

**OK**

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