

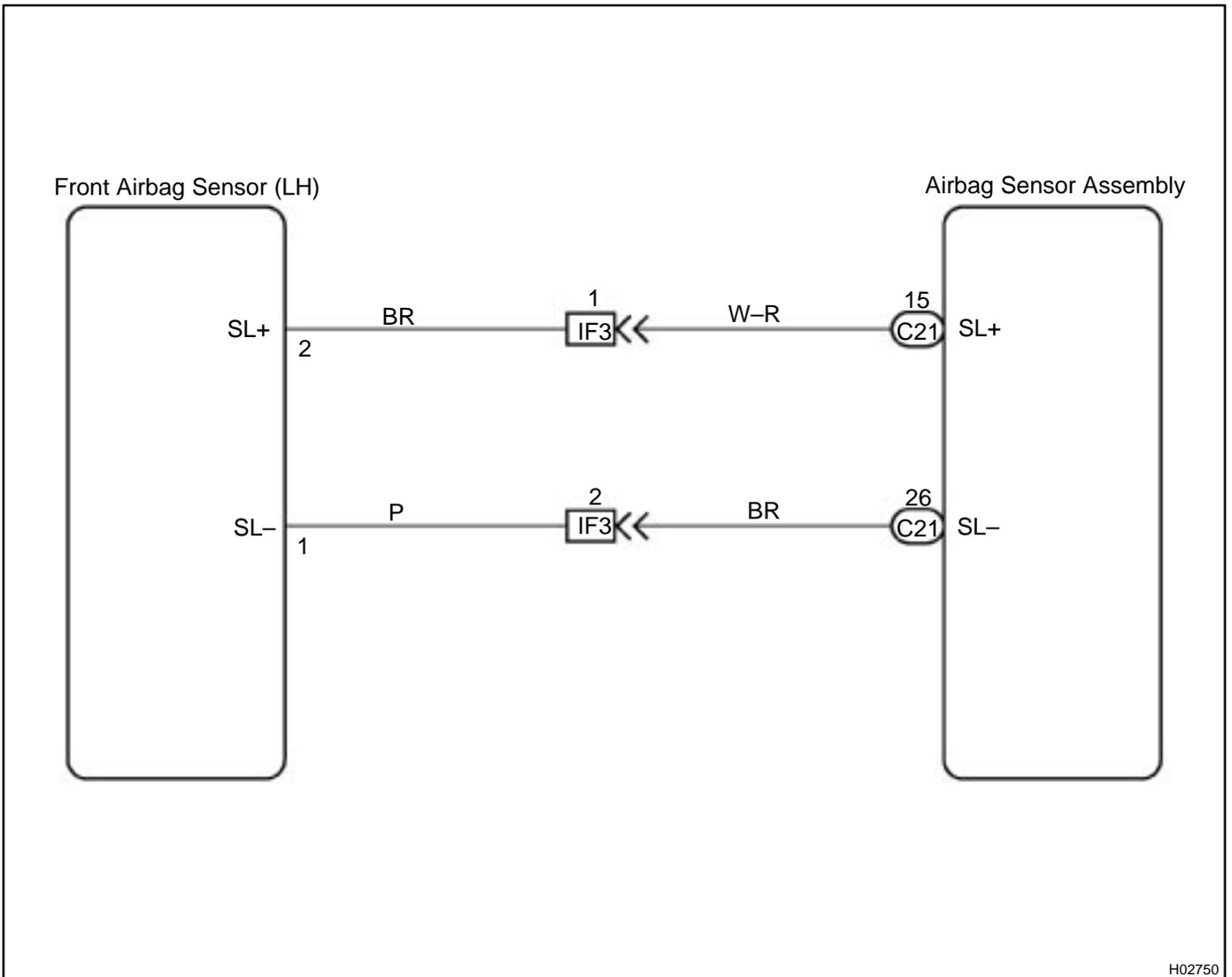
<b>DTC</b>	<b>B1158/B1159/16</b>	<b>Front Airbag Sensor (LH) Malfunction</b>
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**CIRCUIT DESCRIPTION**

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>

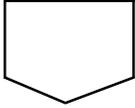
**WIRING DIAGRAM**



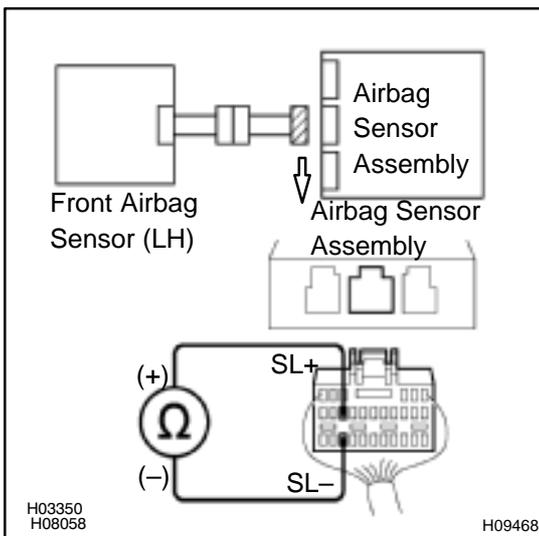
H02750

## 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:**

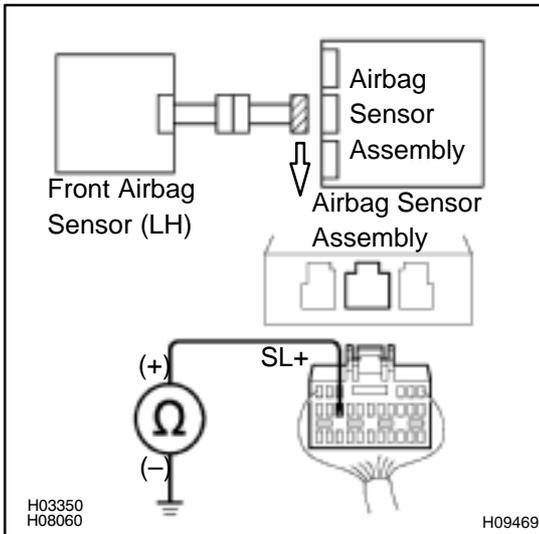
**Resistance: 754 – 886  $\Omega$**

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:**

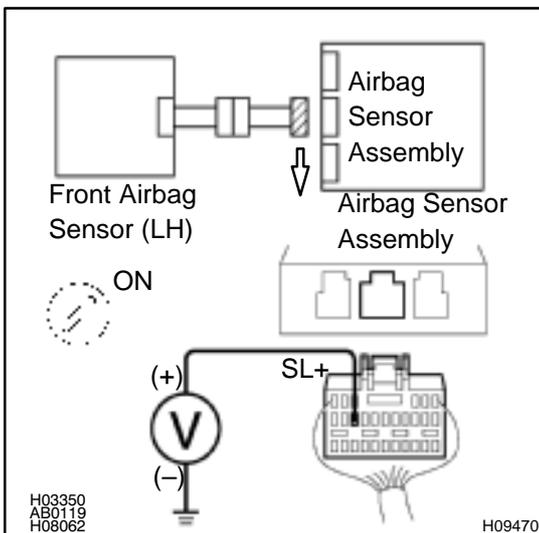
**Resistance: 1 M $\Omega$  or Higher**

**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:**

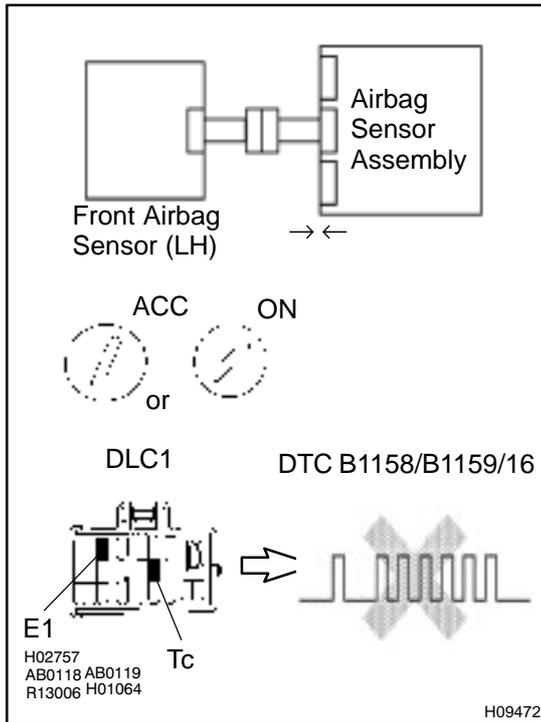
**Voltage: Below 1 V**

**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.

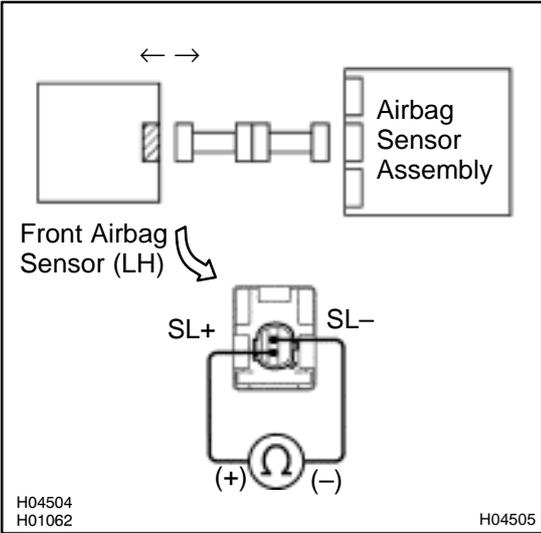
**NG**

**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-.

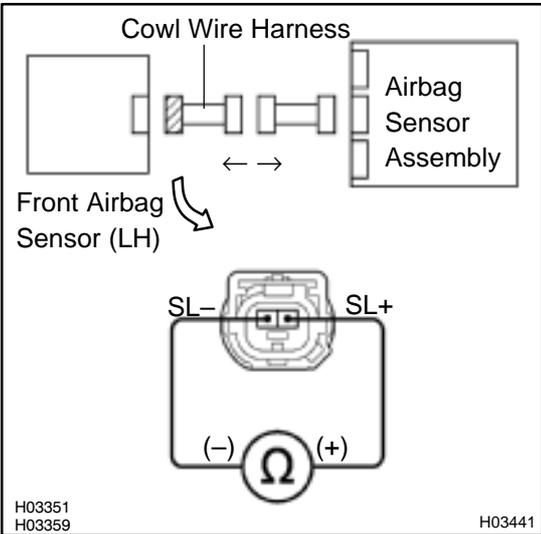
**OK:**

**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-.

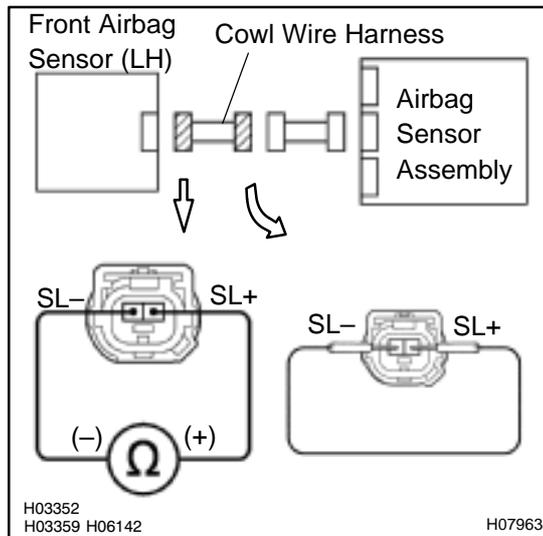
**OK:**

**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  $\Omega$**

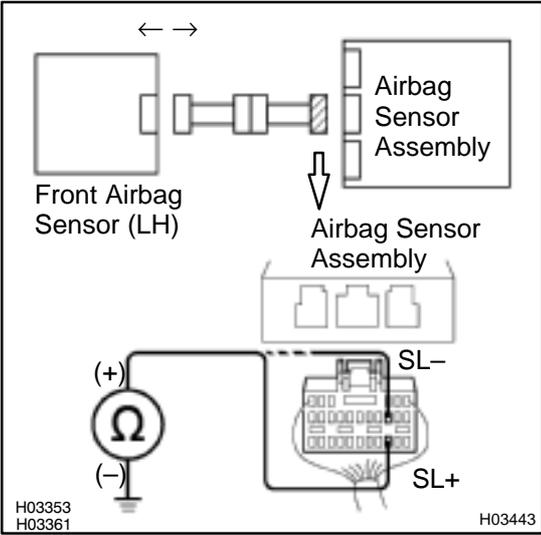
**NG**

**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-.

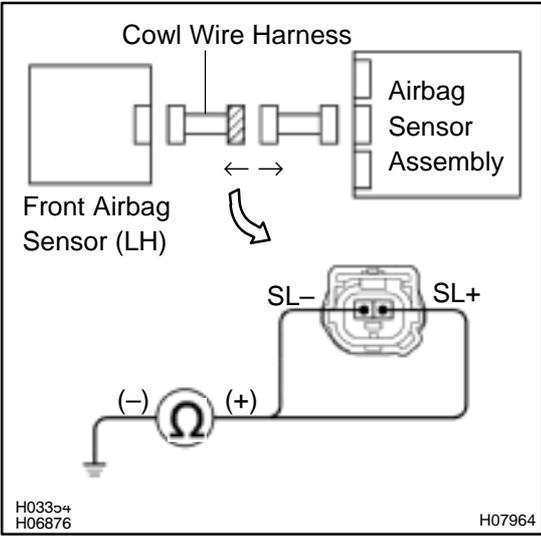
**OK:**

**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-.

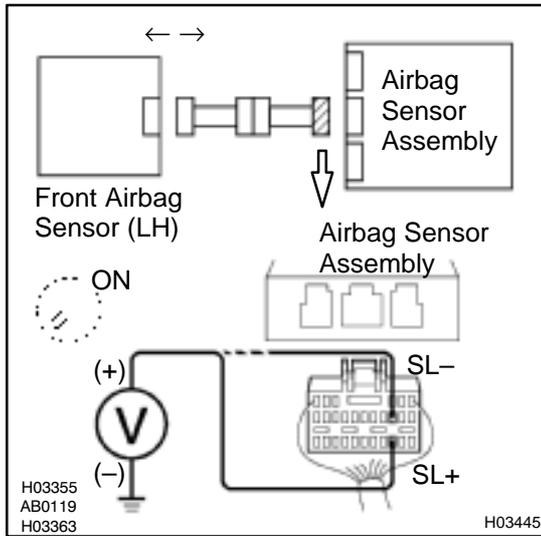
**OK:**

**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:**

- Disconnect the front airbag sensor connector (LH).
- 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-.

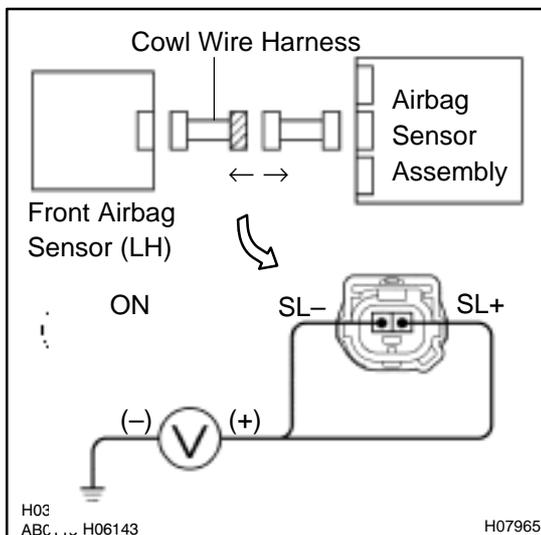
**OK:**

**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.**