

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 the front airbag sensor RH. For details of the function of each component, see OPERATION on page RS-3.  
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 • Dash wire • Engine room No. 2 wire • Engine room main wire

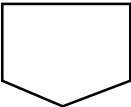
HINT:  
DTC B1156/B1157/15 is indicated only for the vehicle equipped without the side airbag (single stage airbag).

WIRING DIAGRAM

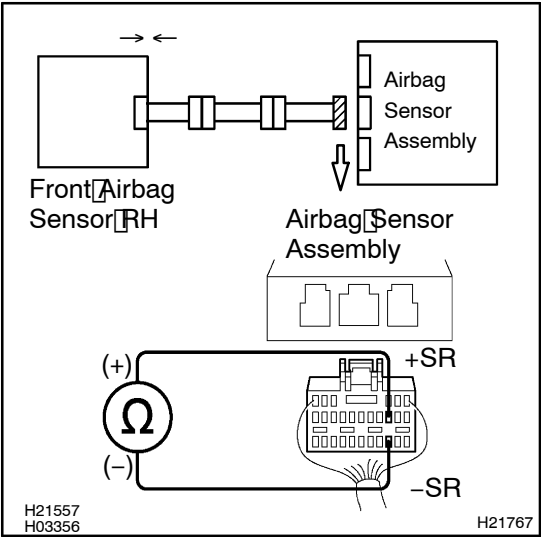
See page DI-619.

INSPECTION PROCEDURE

1	Prepare for inspection (See step 1 on page DI-764).
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2	Check front airbag sensor RH circuit.
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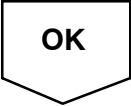
**PREPARATION:**  
Connect the connector to the front airbag sensor RH.

**CHECK:**  
Measure the resistance between +SR and -SR of the connector on the airbag sensor assembly side between the front airbag sensor RH and the airbag sensor assembly.

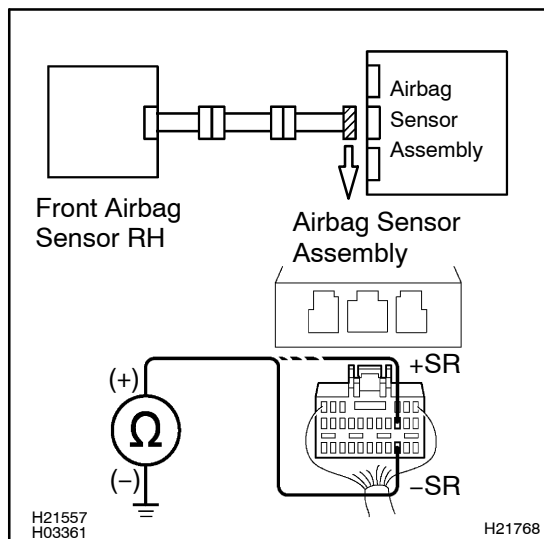
**OK:**  
**Resistance: 754 – 886 Ω**

NG

Go to step 7.



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

**CHECK:**

Measure the resistance between the body ground and each of +SR and -SR of the connector on the airbag sensor assembly side between the front airbag sensor RH and the airbag sensor assembly.

**OK:**

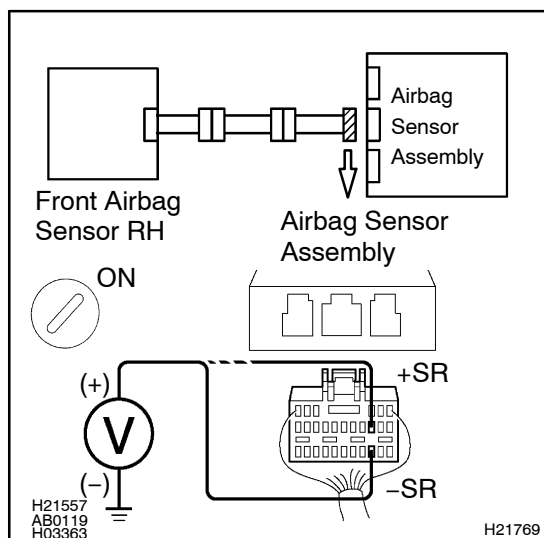
**Resistance: 1 MΩ or Higher**

**NG**

**Go to step 9.**

**OK**

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

**PREPARATION:**

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

**CHECK:**

- Turn the ignition switch to ON.
- Measure the voltage between the body ground and each of +SR and -SR of the connector on the airbag sensor assembly side between the front airbag sensor RH and the airbag sensor assembly.

**OK:**

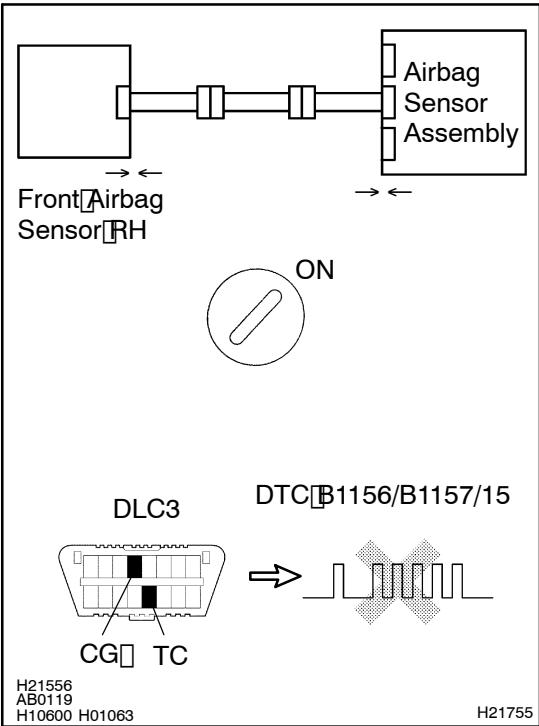
**Voltage: Below 1 V**

**NG**

**Go to step 11.**

**OK**

# 5 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 airbag sensor assembly connector.
- Connect the negative (–) terminal cable to the battery, and wait at least for 2 seconds.

## **CHECK:**

- Turn the ignition switch to ON, and wait at least for 10 seconds.
- Clear the DTC stored in memory (See page DI-432).
- Turn the ignition switch to LOCK, and wait at least for 10 seconds.
- Turn the ignition switch to ON, and wait at least for 10 seconds.
- Check the DTC (See page DI-432).

## **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.

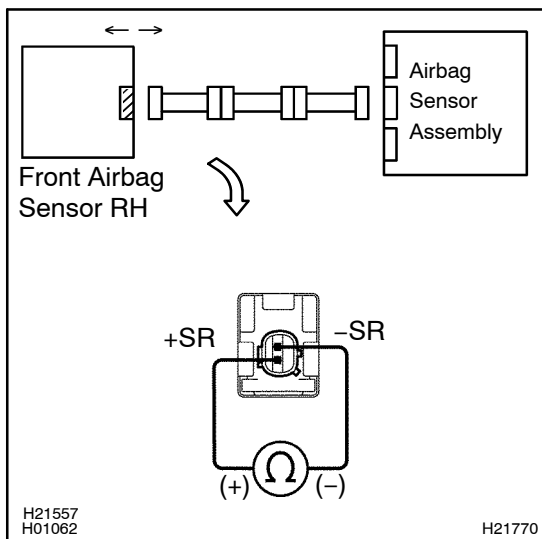
**NG**

**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.**

## 6 Check front airbag sensor RH.



### PREPARATION:

Disconnect the front airbag sensor RH connector.

### CHECK:

Measure the resistance between +SR and -SR of the front airbag sensor RH.

### OK:

**Resistance: 754 – 886 Ω**

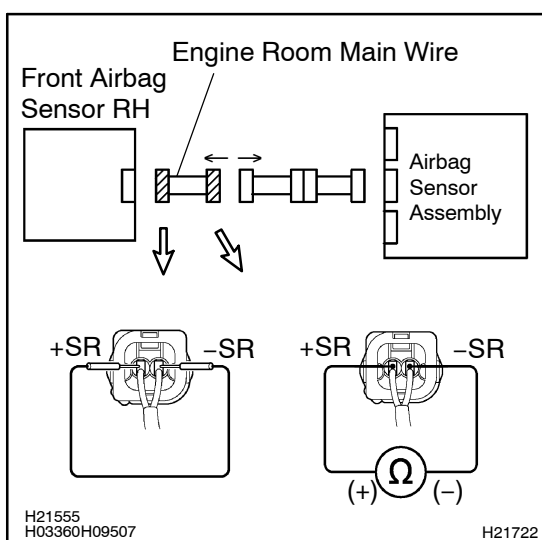
NG

**Replace front airbag sensor 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.

## 7 Check engine room main wire.



### PREPARATION:

- Disconnect the engine room main wire connector from the airbag sensor assembly side.
- Using a service wire, connect the +SR and -SR of the engine room main wire connector on the front airbag sensor RH side.

### CHECK:

Measure the resistance between +SR and -SR of the engine room main wire connector on the airbag sensor assembly side.

### OK:

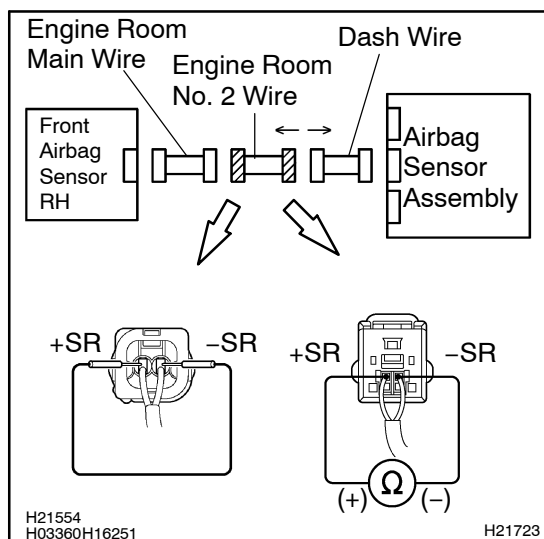
**Resistance: Below 1 Ω**

NG

**Repair or replace engine room main wire.**

OK

## 8 Check engine room No. 2 wire.



OK

### PREPARATION:

- Disconnect the engine room No. 2 wire connector from the dash wire.
- Using a service wire, connect +SR and -SR of the engine room No. 2 wire connector on the engine room main wire side.

### CHECK:

Measure the resistance between +SR and -SR of the engine room No. 2 wire connector on the dash wire side.

### OK:

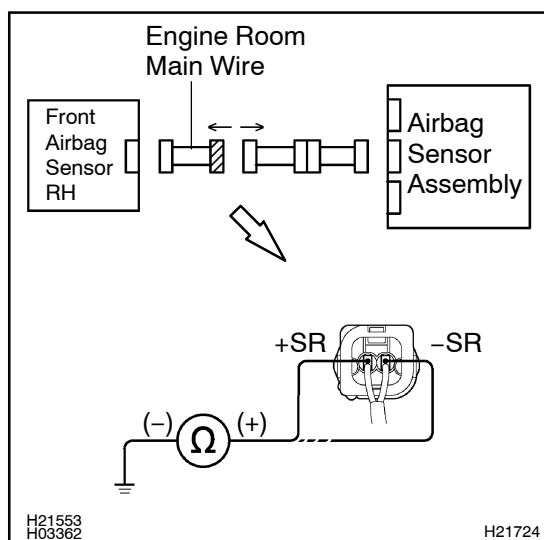
Resistance: Below 1  $\Omega$

NG

Repair or replace engine room No. 2 wire.

Repair or replace dash wire.

## 9 Check engine room main wire (to ground).



OK

### PREPARATION:

Disconnect the engine room main wire connector on the airbag sensor assembly side.

### CHECK:

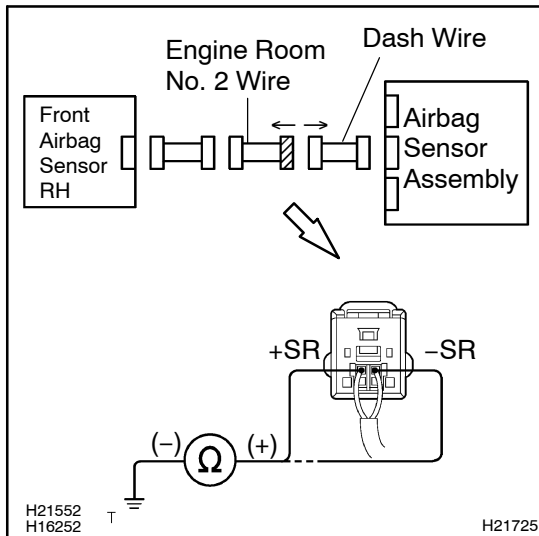
Measure the resistance between the body ground and each of +SR and -SR of the engine room main wire connector on the airbag sensor assembly side.

### OK:

Resistance: 1 M $\Omega$  or Higher

NG

Repair or replace engine room main wire.

**10 Check engine room No. 2 wire (to ground).****PREPARATION:**

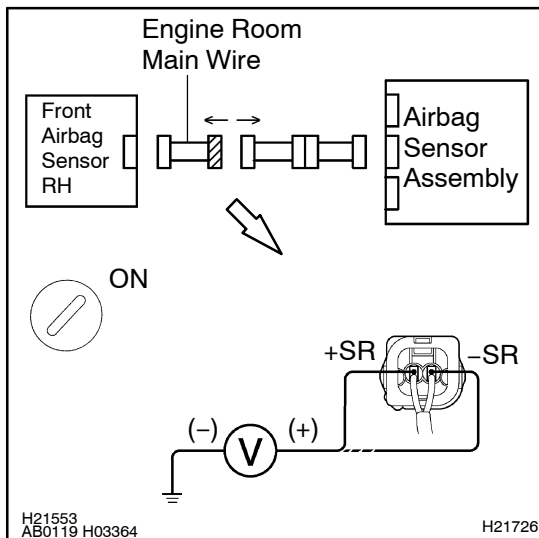
Disconnect the engine room No. 2 wire connector from the dash wire.

**CHECK:**

Measure the resistance between the body ground and each of +SR and -SR of the engine room No. 2 wire connector on the dash wire side.

**OK:**

**Resistance: 1 MΩ or Higher**

**NG****Repair or replace engine room No. 2 wire.****OK****Repair or replace dash wire.****11 Check engine room main wire (to B+).****PREPARATION:**

- Turn the ignition switch to LOCK.
- Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
- Disconnect the engine room main wire connector on the airbag sensor assembly side.
- Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.

**CHECK:**

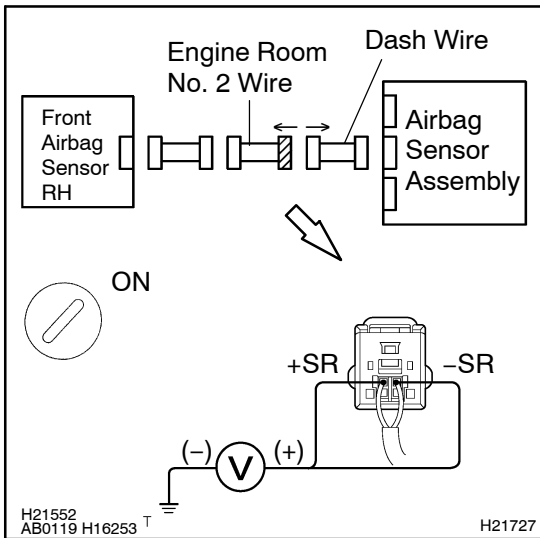
- Turn the ignition switch to ON.
- Measure the voltage between the body ground and each of +SR and -SR of the engine room main wire connector on the airbag sensor assembly side.

**OK:**

**Voltage: Below 1 V**

**NG****Repair or replace engine room main wire.****OK**

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**Check engine room No. 2 wire (to B+).****PREPARATION:**

- Turn the ignition switch to LOCK.
- Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
- Disconnect the engine room No. 2 wire connector from the dash wire.
- Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.

**CHECK:**

- Turn the ignition switch to ON.
- Measure the voltage between the body ground and each of +SR and -SR of the engine room No. 2 wire connector on the dash wire side.

**OK:****Voltage: Below 1 V****NG****Repair or replace engine room No. 2 wire.****OK****Repair or replace dash wire.**