DIATL-01

DTC	B1149/37	Front Airbag Sensor LH Malfunction
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### **CIRCUIT DESCRIPTION**

The front airbag sensor LH circuit consists of the diagnosis circuit and frontal deceleration sensor, etc. If receives signals from the frontal deceleration sensor, judges whether or not the SRS must be activated, and detects diagnosis system malfunction.

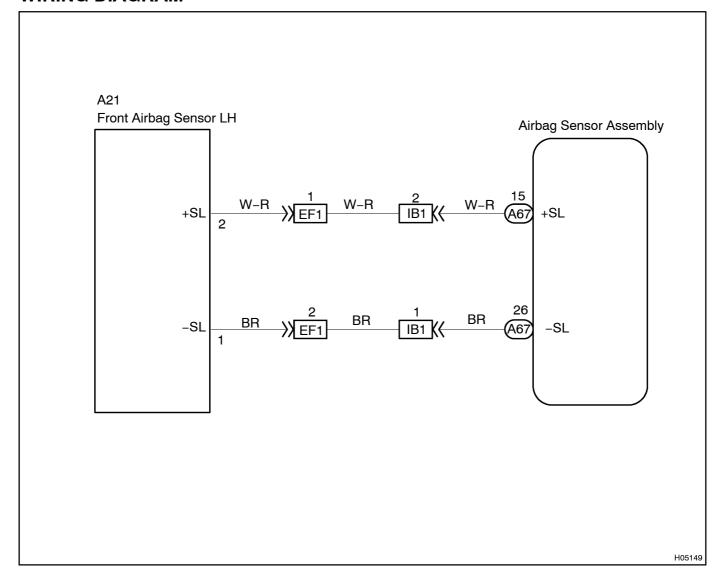
DTC B1149/37 is recorded when malfunction is detected in the front airbag sensor LH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
		Front airbag sensor LH Airbag sensor assembly
B1149/37	• Front airbag sensor LH malfunction	Dash wire
		Engine room No. 2 wire
		• Engine room main wire

#### HINT:

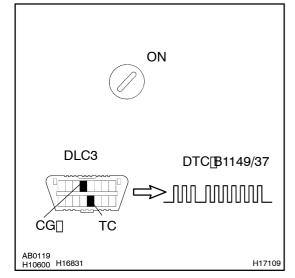
DTC B1149/37 is indicated only for the vehicle equipped with the side airbag and without the side airbag (dual stage airbag).

## **WIRING DIAGRAM**



# **INSPECTION PROCEDURE**

1 | Is[DTC[B11[9/37[output?



#### **CHECK:**

- (a) Turn[the[ignition]switch[to[DN,@and[wait]at[least[flor]] 0]seconds
- (b) Clear[the[DTC[stored[in[memory[[See[page[DI-432]).
- (c) Turn[heignition[switch[lo]LOCK,[and[wait[at]]east[lor]] 0 seconds.
- (d) Turn[the[ignition]switch[to[ON,[and[wait]at[least[for]] 0]seconds.
- (e) Check the DTC See page DI-432).

OK:

DTC[B1149/37[is[output.

HINT:

Codes@ther@than@ode@1149/37@nay@be@utput@t@tithis@me,@ut they@are@not@elevant@o@this@theck.



The malfunctioning part can now be considered normal. To make sure of this, use the simulation method to check.

YES

2

Is@connector@f@ront@irbag@sensor@H@properly@connected?

NO

Connect connector.

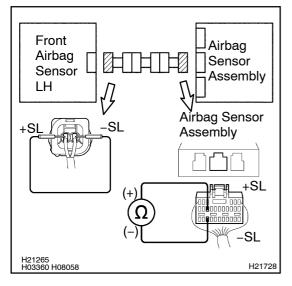
YES

Prepare[for[inspection[(See[step 1[on[page[DI-764).



3∏

## 4 Check wire harness.



#### PREPARATION:

Using a service wire, connect +SL and -SL on the front airbag sensor LH side between the airbag sensor assembly and the front airbag sensor LH.

#### **CHECK:**

Measure the resistance between +SL and – SL on the airbag sensor assembly side between the front airbag sensor LH and the airbag sensor assembly.

## OK:

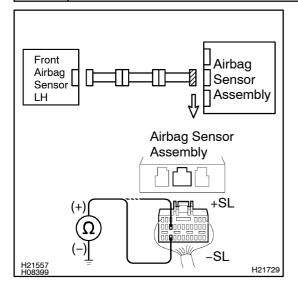
Resistance: Below 1  $\Omega$ 



ок

5

## Check wire harness (to ground).



#### **CHECK:**

Measure the resistance between the body ground and each of +SL and -SL on the airbag sensor assembly side between the front airbag sensor LH and the airbag sensor assembly.

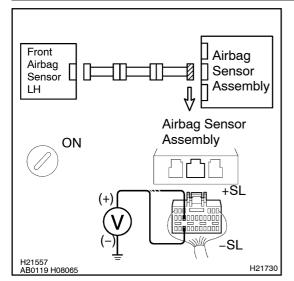
#### OK:

Resistance: 1 M $\Omega$  or Higher

NG Go to step 10.

ОК

# 6 Check wire harness (to B+).



#### **PREPARATION:**

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

#### **CHECK:**

- (a) Turn the ignition switch to ON.
- (b) Measure the voltage between the body ground and each of +SL and -SL on the airbag sensor assembly side between the front airbag sensor LH and the airbag sensor assembly.

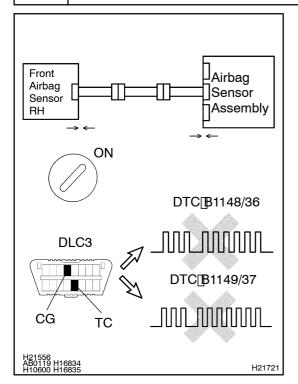
<u>OK:</u>

Voltage: Below 1 V

NG Go to step 12.

ОК

# 7 | Check@airbag@sensor@assembly.



#### PREPARATION:

- (a) Turn the ignition witch to LOCK.
- (b) Disconnect[he[hegative[-)]]erminal[cable[from[]he[battery,[and[wait[at]least[flor[]90]\$econds.
- (c) Connect the connector of the tribag sensor assembly.
- (d) Change the front air bag sensor RH position with LH position.
- (e) Connect[the hegative (-) terminal cable to the battery, and wait at east for \$\ 2\\$ econds.

#### CHECK:

- (a) Turn[the[ignition]switch[to]DN,[and[wait[at]]east[for]] 0[seconds.
- (b) ☐ Clear The DTC stored In Imemory (See page DI-432).
- (c) Turn the ignition switch to LOCK, and wait at least for 10 seconds.
- (d) Turn the ignition switch to ON, and wait at least for 10 seconds.
- (e) Check the DTC See page DI-432).

#### <u>OK:</u>

### Neither DTC B1148/36 nor B1149/37 not output.

#### HINT:

Codes other than code B1149/37 or B1148/36 may be output at this time, but they are not relevant to this check.

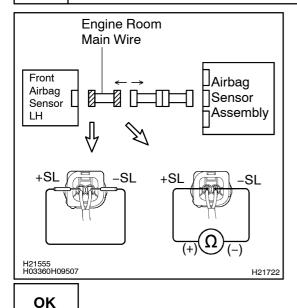
NG Replace airbag sensor assembly (DTC B1149/37 is output).

NG Replace front airbag sensor LH (DTC B1148/36 is output).

ОК

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.

# 8 Check engine room main wire.



#### PREPARATION:

- (a) Disconnect the engine room main wire connector on the airbag sensor assembly side.
- (b) Using a service wire, connect +SL and -SL of the engine room main wire on the front airbag sensor LH side.

#### CHECK:

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

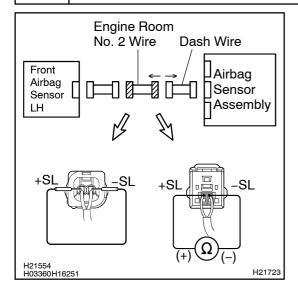
#### OK:

Resistance: Below 1  $\Omega$ 

NG

Repair or replace engine room main wire.

9 Check engine room No. 2 wire.



#### PREPARATION:

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

#### CHECK:

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

#### OK:

Resistance: Below 1  $\Omega$ 

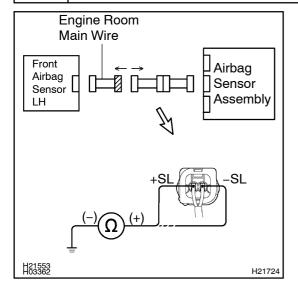
NG

Repair or replace engine room No. 2 wire.

OK

Repair or replace dash wire.

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



#### 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 +SL and -SL of the engine room main wire connector on the air-bag sensor assembly side.

#### OK:

Resistance: 1 M $\Omega$  or Higher

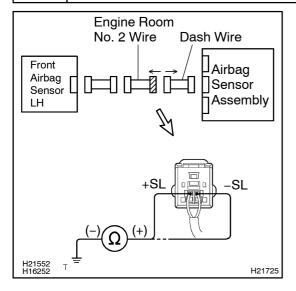
NG

Repair or replace engine room main wire.



11

## 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 +SL and -SL of the engine room No. 2 wire connector on the dash wire side.

#### OK:

Resistance: 1 M $\Omega$  or Higher

NG

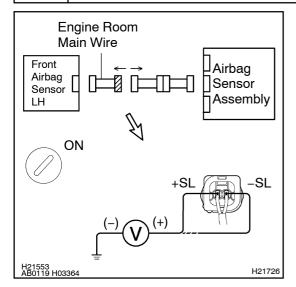
Repair or replace engine room No. 2 wire.

OK

Repair or replace dash wire.

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# 12 Check engine room main wire (to B+).



#### PREPARATION:

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

#### **CHECK:**

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

## OK:

Voltage: Below 1 V

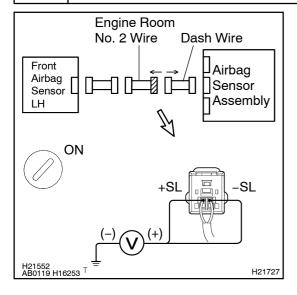
NG

Repair or replace engine room main wire.

OK

13

# Check engine room No. 2 wire (to B+).



### **PREPARATION:**

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

#### **CHECK:**

- (a) Turn the ignition switch to ON.
- (b) Measure the voltage between the body ground and each of +SL and –SL 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.

ОК

#### Repair or replace dash wire.

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