DI58Q-07

| DTC | B1158/B1159/16 | Front Airbag Sensor (LH) Malfunction |
|-----|----------------|--------------------------------------|
|-----|----------------|--------------------------------------|

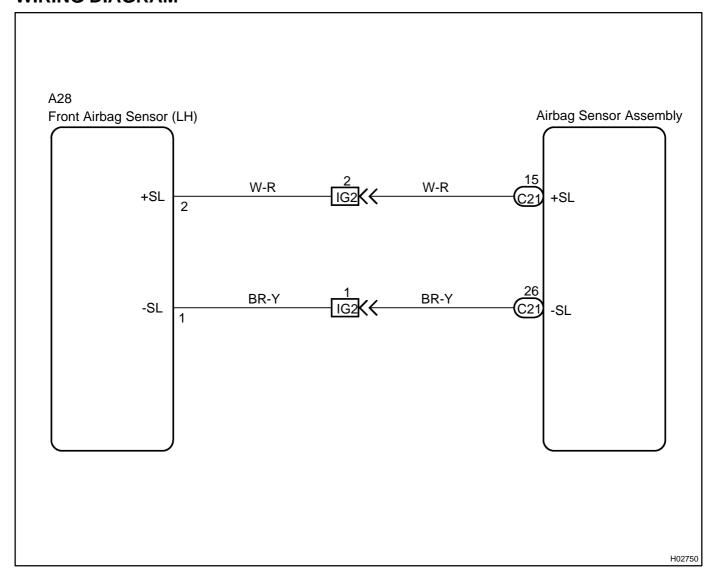
CIRCUIT DESCRIPTION

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/B1159/16 is recorded when malfunction is detected in the front airbag sensor (LH) circuit.

| DTC No. | DTC Detecting Condition | Trouble Area |
|----------------|--|-------------------------------------|
| D4450/D4450/40 | For this is a second (UN) and (section | • Front airbag sensor (LH) |
| B1158/B1159/16 | Front airbag sensor (LH) malfunction | Wire harness Airbag sensor assembly |

WIRING DIAGRAM



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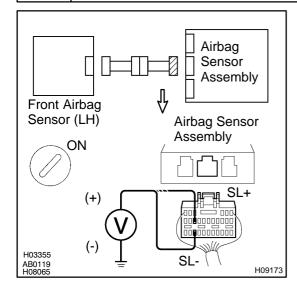
INSPECTION PROCEDURE

1 Prepare for inspection. (See step 1 on page DI-456)



2

Check wire harness (to B+).



CHECK:

- (a) Turn ignition switch to ON.
- (b) 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:

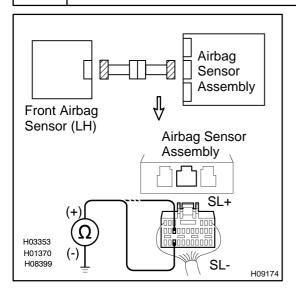
Voltage: Below 1 V



ок

3

Check wire harness (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 body ground and each of SL+ and SL-.

OK:

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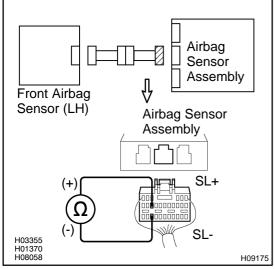
Resistance: 1 M Ω or Higher

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Go to step 9.



4 Check wire harness.



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:

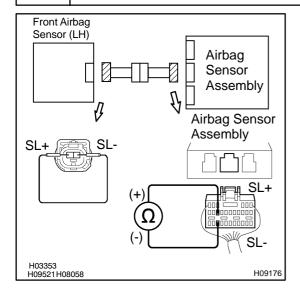
Resistance: 1 M Ω or Higher



NG)

Go to step 10.

5 Check wire harness.



PREPARATION:

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

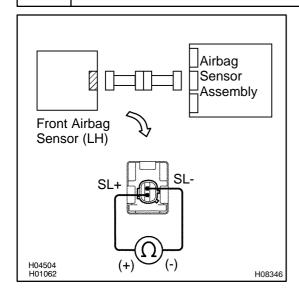
OK:

Resistance: Below 1 Ω



NG \rangle Go to step 11.

6 Check front airbag sensor (LH).



CHECK:

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

OK:

Resistance: 300 - 1500 Ω

NG

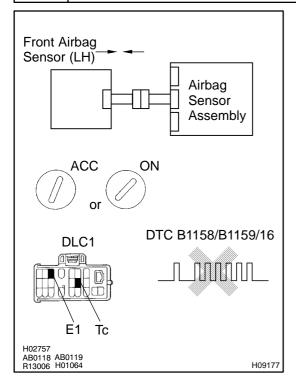
Replace front airbag sensor (LH).

ОК

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7

Check airbag sensor assembly.



PREPARATION:

- (a) Turn ignition switch to LOCK.
- (b) Disconnect negative (-) terminal cable from the battery, and wait at least for 90 seconds.
- (c) Connect the front airbag sensor (LH) connector and airbag sensor assembly connector.
- (d) Connect negative (-) terminal cable to the battery, and wait at least for 2 seconds.

CHECK:

- (a) Turn ignition switch to ACC or ON, and wait at least for 20 seconds.
- (b) Clear DTC stored in memory. (See page DI-377)
- (c) Turn ignition switch to LOCK, and wait at least for 20 seconds.
- (d) Turn ignition switch to ACC or ON, and wait at least for 20 seconds.
- (e) Check DTC. (See page DI-377)

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)

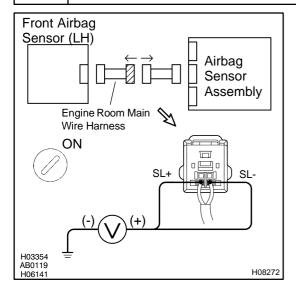
Replace airbag sensor assembly.



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.

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8 Check engine room main wire harness (to B+).



PREPARATION:

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

CHECK:

- (a) Turn ignition switch to ON.
- (b) For the connector (on the LH front door wire harness side) between the airbag sensor assembly and the engine room main wire harness, measure the voltage between body ground and each of SL+ and SL-.

OK:

Voltage: Below 1 V



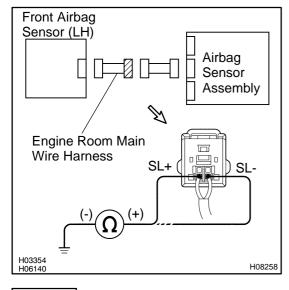
Repair or replace engine room main wire harness.



9

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

Check engine room main wire harness (to ground).



PREPARATION:

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

CHECK:

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

OK:

Resistance: 1 M Ω or Higher



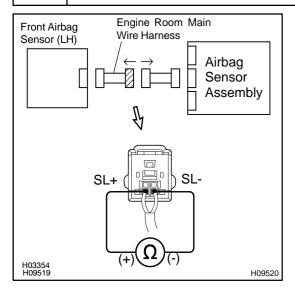
Repair or replace engine room main wire harness.

ок

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

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10 Check engine room main wire harness.



PREPARATION:

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

CHECK:

For the connector (on the engine room main wire harness side) between the airbag sensor assembly and the engine room main wire harness, measure the resistance between SL+ and SL-. **OK:**

Resistance: 1 M Ω or Higher

NG \

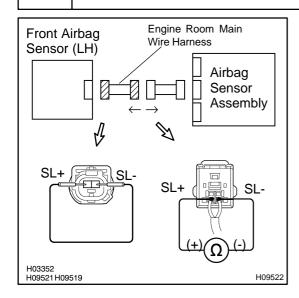
Repair or replace engine room main wire harness.

ОК

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

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11 Check engine room main wire harness.



PREPARATION:

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

CHECK:

For the connector (on the engine room main wire harness side) between the airbag sensor assembly and the engine room main wire harness, measure the resistance between SL+ and SL-.

OK:

Resistance: Below 1 Ω



Repair or replace engine room main wire harness.



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

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