DIAT6–01

DTC	B0121/B0122/26	Seat Belt Buckle Switch RH Malfunction

CIRCUIT DESCRIPTION

The seat belt buckle switch RH malfunction circuit consists of the airbag sensor assembly and the front seat inner belt RH (seat belt buckle switch RH).

For details of the function of each component, see OPERATION on page RS–3.

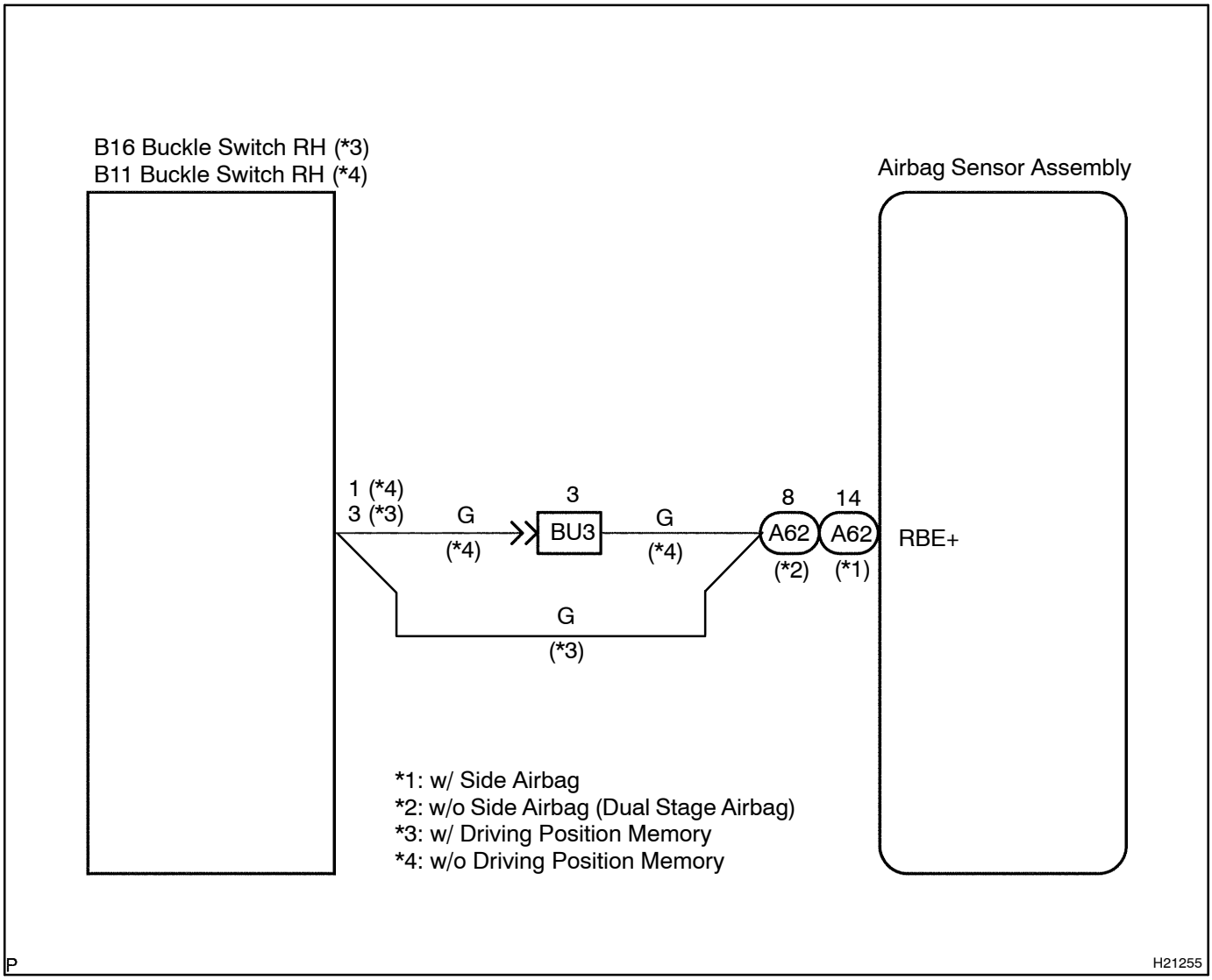
DTC B0121/B0122/26 is recorded when a malfunction is detected in the seat belt buckle switch RH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B0121/B0122/26	• Seat belt buckle switch RH circuit malfunction	• Front seat inner belt RH (Seat belt buckle switch RH) • Airbag sensor assembly • Floor No. 2 wire • Front seat wire RH

HINT:

DTC B0121/B0122/26 is indicated only for the RHD vehicle equipped with the side airbag and without the side airbag (dual stage airbag).

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Prepare for inspection (See step 1 on page DI–432).

2	Check vehicle condition.

CHECK:

Check the buckle switch type.

OK:

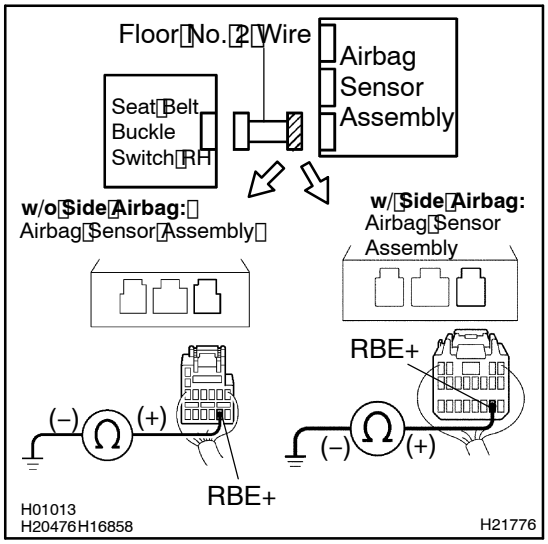
A: w/ Driving Position Memory buckle switch

B: w/o Driving Position Memory buckle switch

B → **Go to step 13.**

A

3	Check floor No. 2 wire (to ground).



CHECK:

Measure the resistance between the the body ground and RBE+ of the floor No. 2 wire connector on the airbag sensor assembly side.

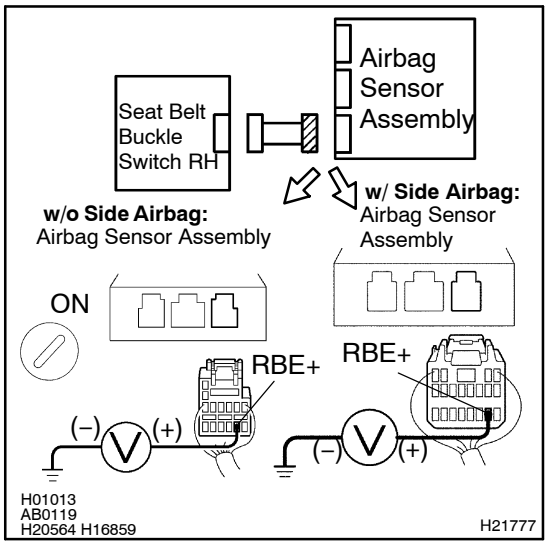
OK:

Resistance: 1 MΩ or Higher

NG → **Repair or replace floor No. 2 wire.**

OK

4	Check floor No. 2 wire (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 RBE+ of the floor No. 2 wire connector on the airbag sensor assembly side.

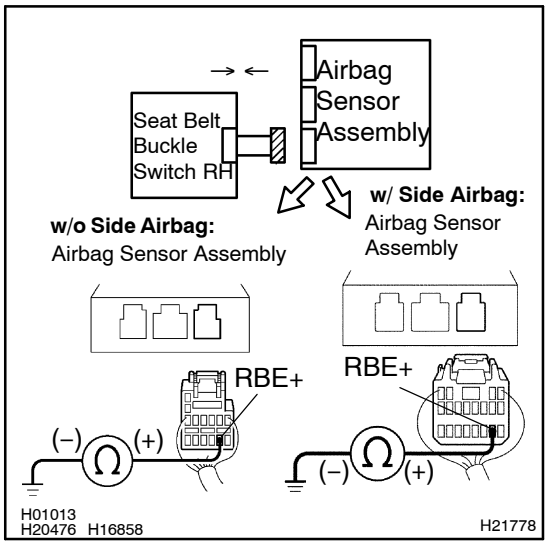
OK:

Voltage: Below 1 V

NG	Repair or replace floor No. 2 wire.

OK

5	Check front seat inner belt RH.



PREPARATION:

(a) Connect the connector of the front seat inner belt RH (seat belt buckle switch RH).

(b) Unlock the seat belt for the driver's seat.

CHECK:

Measure the resistance between the body ground and RBE+ of the floor No. 2 wire connector on the airbag sensor assembly side.

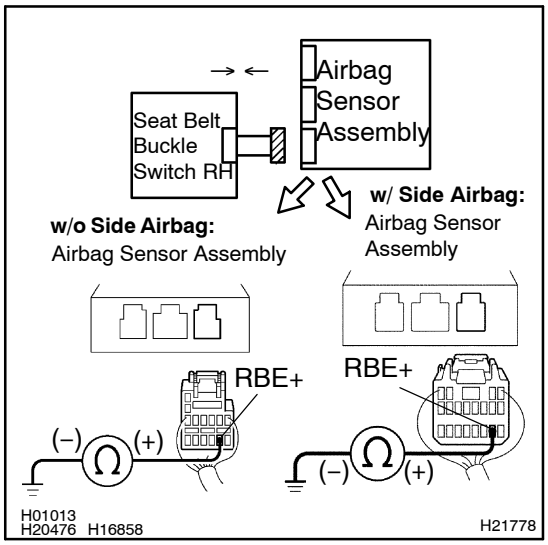
OK:

Resistance: 1 kΩ – 1.6 kΩ

NG	Replace front seat inner belt RH.

OK

6	Check front seat inner belt RH.



PREPARATION:

Lock the seat belt for the driver's seat.

CHECK:

Measure the resistance between the body ground and RBE+ of the floor No. 2 wir connector on the airbag sensor assembly side.

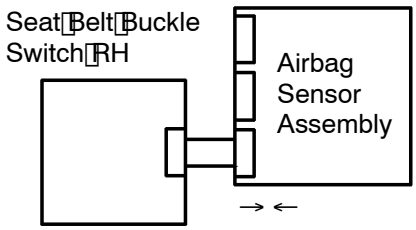
OK:

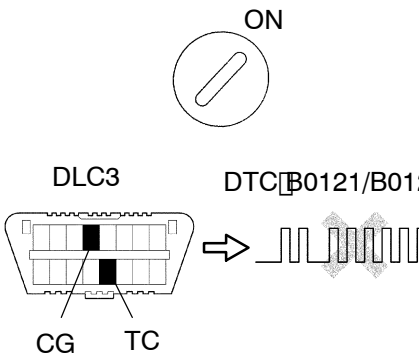
Resistance: 100 Ω – 500 Ω

NG → **Replace front seat inner belt RH.**

OK

7	Check airbag sensor assembly.





H01012
AB0119
H10600 H16822
H21779

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

CHECK:

(a) Turn the ignition switch to ON, and wait at least for 10 seconds.
(b) Clear the DTC stored in memory (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).

OK:

DTC B0121/B0122/26 is not output.

HINT:

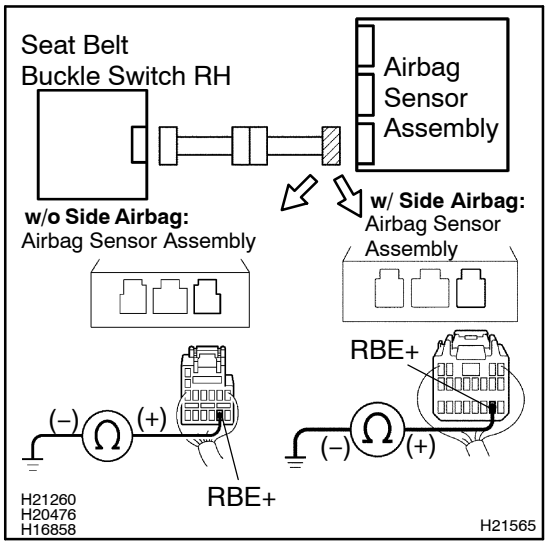
Codes other than code B0121/B0122/26 may be output at this time, but they are not relevant to this check.

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.

8	Check wire harness (to ground).



CHECK:

Measure the resistance between the the body ground and RBE+ connector on the airbag sensor assembly side between the front seat inner belt RH (seat belt buckle switch RH) and the airbag sensor assembly.

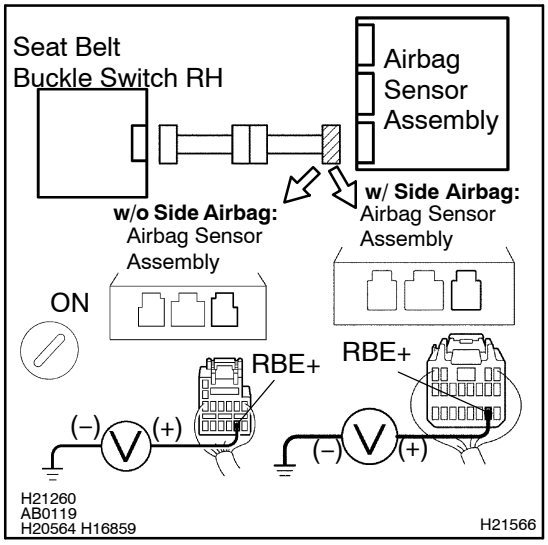
OK:

Resistance: 1 MΩ or Higher

NG	Go to step 13.

OK

9	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 RBE+ of the connector on the airbag sensor assembly side between the front seat inner belt RH (seat belt buckle switch RH) and the airbag sensor assembly.

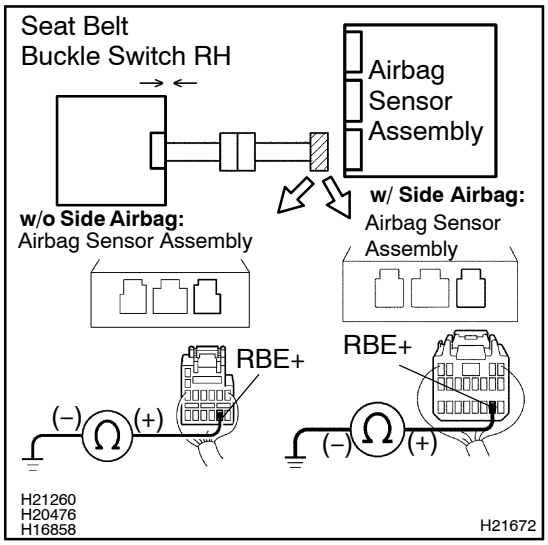
OK:

Voltage: Below 1 V

NG	Go to step 14.

OK

10	Check front seat inner belt RH.



PREPARATION:

(a) Connect the connector of the front seat inner belt RH (seat belt buckle switch RH).

(b) Unlock the seat belt for the driver's seat.

CHECK:

Measure the resistance between the body ground and RBE+ of the connector on the airbag sensor assembly side between the front seat inner belt RH (seat belt buckle switch RH) and the airbag sensor assembly.

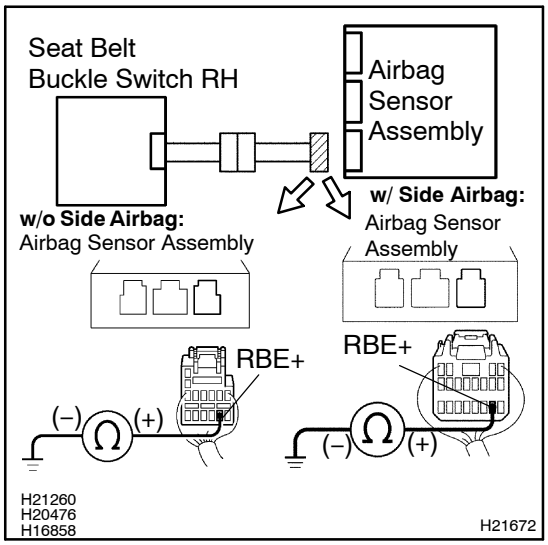
OK:

Resistance: 1 kΩ – 1.6 kΩ

NG	Replace front seat inner belt RH.

OK

11	Check front seat inner belt RH.



PREPARATION:

Lock the seat belt for the driver's seat.

CHECK:

Measure the resistance between the body ground and RBE+ of the connector on the airbag sensor assembly side between the front seat inner belt RH (seat belt buckle switch RH) and the airbag sensor assembly.

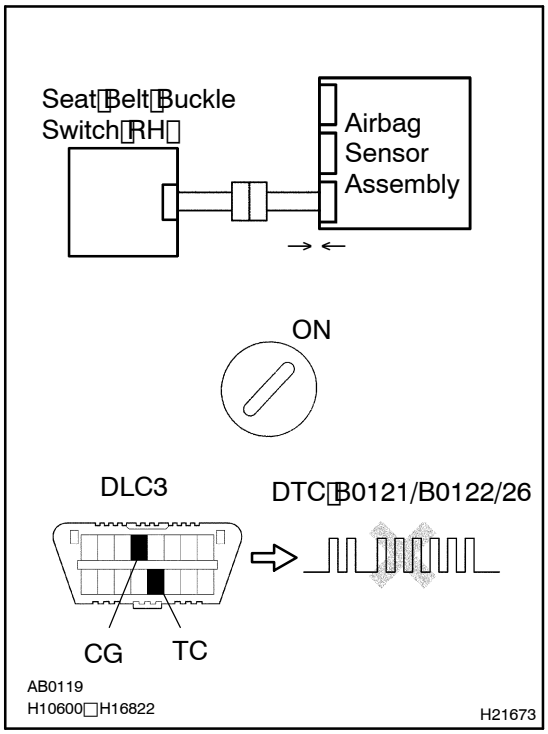
OK:

Resistance: 100 Ω – 500 Ω

NG	Replace front seat inner belt RH.

OK

12	Check airbag sensor assembly.



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) Connect the connector to the airbag sensor assembly.

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

CHECK:

(a) Turn the ignition switch to ON, and wait at least for 10 seconds.

(b) Clear the DTC stored in memory (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).

OK:

DTC B0121/B0122/26 is not output.

HINT:

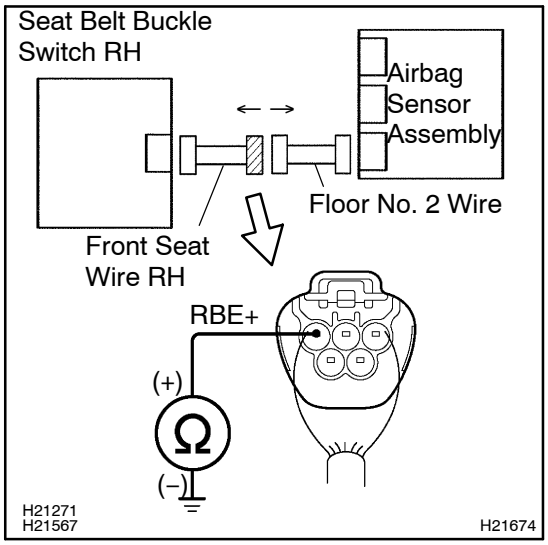
Codes other than code B0121/B0122/26 may be output at this time, but they are not relevant to this check.

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.

13	Check front seat wire RH (to ground).



PREPARATION:

Disconnect the front seeat wire RH connector from the floor NO. 2 wire.

CHECK:

Measure the resistanscse between the body ground and the RBE+ of the front seat wire RH connector on the floor No. 2 wire side.

OK:

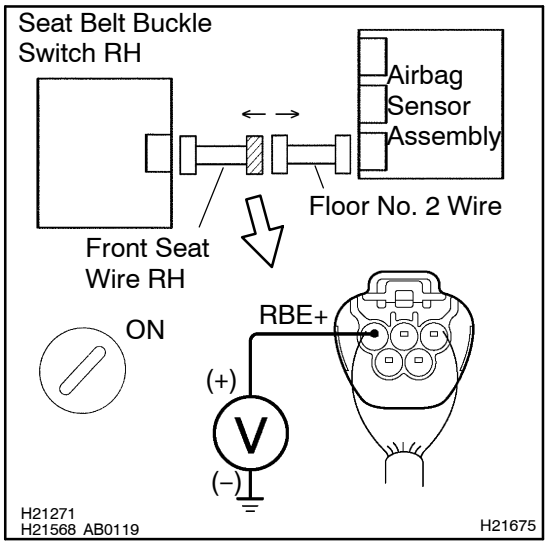
Resistance : 1 MΩ or Higher

NG → **Repair or replace floor No. 2 wire.**

OK

Repair or replace floor No. 2 wire.

14	Check front seat wire RH (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 front seat wire RH connector from the floor No. 2 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 RBE+ of the front seat wire RH connector on the floor No. 2 wire side.

OK:

Voltage: Below 1 V

NG	Repair or replace front seat wire RH.

OK

Repair or replace floor No. 2 wire.