DTC	B1655	SEAT BELT BUCKLE SWITCH (RH) MALFUNCTION

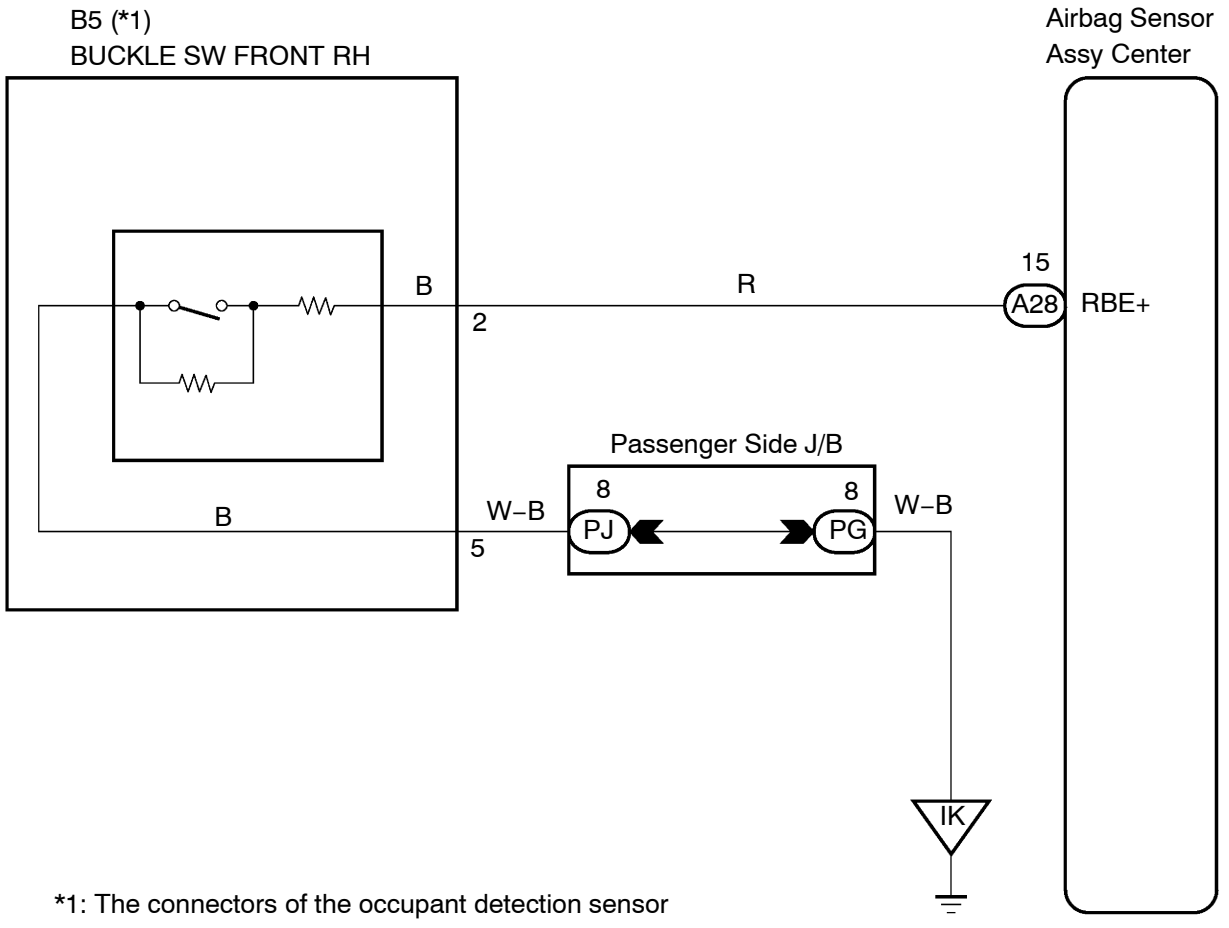
CIRCUIT DESCRIPTION

The seat belt buckle switch RH circuit consists of the airbag sensor assy center and the front seat inner belt assy RH (seat belt buckle switch RH).
DTC B1655 is recorded when a malfunction is detected in the seat belt buckle switch RH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1655	• When the airbag sensor assy center receives an open signal, short to ground signal or B+ short signal in the seat belt buckle switch RH circuit for 2 seconds. • Front seat inner belt assy RH malfunction • Airbag sensor assy center malfunction	• Floor wire • Front seat inner belt assy RH (Seat belt buckle switch RH) • Airbag sensor assy center

WIRING DIAGRAM

LHD:



*1: The connectors of the occupant detection sensor and the front seat inner belt assy RH (buckle switch RH) are in common use.

C

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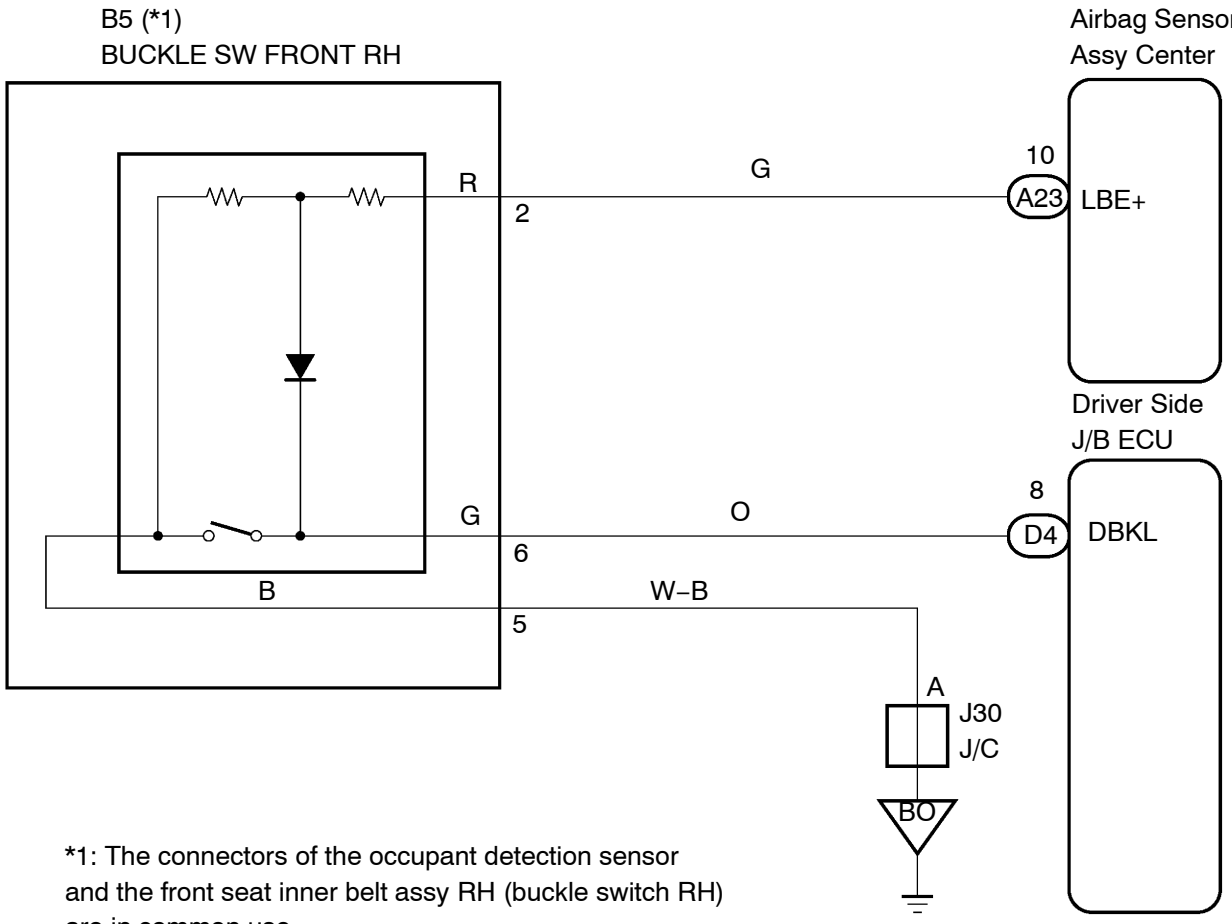
RHD:



*1: The connectors of the occupant detection sensor and the front seat inner belt assy RH (buckle switch RH) are in common use.

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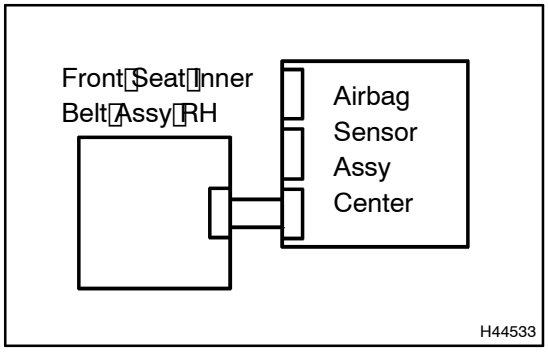
INSPECTION PROCEDURE

CAUTION:

Be sure to perform the following procedures before troubleshooting to avoid unexpected airbag deployment.

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag sensor assy center.
(d) Disconnect the connectors from the horn button assy.
(e) Disconnect the connector from the front passenger airbag assy.
(f) Disconnect the connector from the instrument panel airbag assy lower No.1.
(g) Disconnect the connector from the instrument panel airbag assy lower No.2.
(h) Disconnect the connector from the front seat airbag assy LH.
(i) Disconnect the connector from the front seat airbag assy RH.
(j) Disconnect the connector from the curtain shield airbag assy LH.
(k) Disconnect the connector from the curtain shield airbag assy RH.
(l) Disconnect the connector from the front seat outer belt assy LH.
(m) Disconnect the connector from the front seat outer belt assy RH.
(n) Disconnect the connectors from the rear seat 3 point type outer belt assy.

1	CHECK DTC



(a) Connect the connectors to the airbag sensor assy center.
(b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (see page 05–959).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position and wait for at least 60 seconds.
(g) Check the DTCs (see page 05–959).
OK:
DTC B1655 is not output.

HINT:
Codes other than code B1655 may be output at this time, but they are not related to this check.

NG	Go to step 2

OK

USE SIMULATION METHOD TO CHECK (SEE PAGE 05–954)

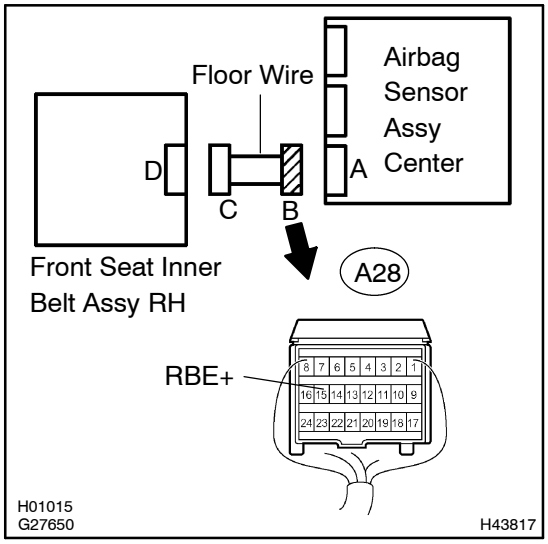
2 CHECK CONNECTION OF CONNECTORS

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the airbag sensor assy center and the front seat inner belt assy RH.
OK:
The connectors are connected.

NG → **CONNECT CONNECTORS, THEN GO TO STEP 1**

OK

3 CHECK FLOOR WIRE(TO B+)



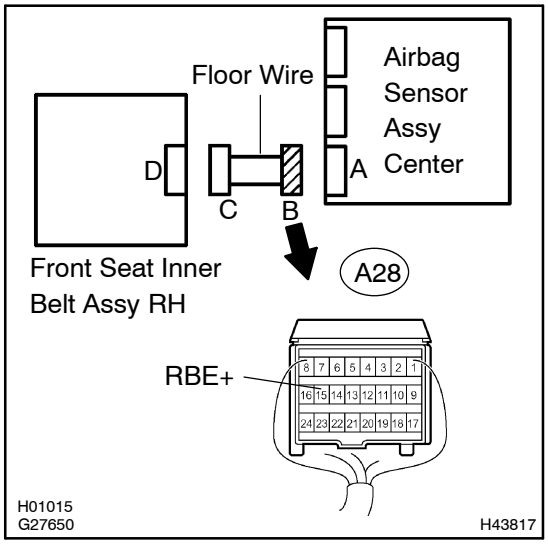
(a) Disconnect the connectors from the front seat inner belt assy RH and the airbag sensor assy center.
(b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position.
(d) Measure the voltage according to the value(s) in the table below.
Standard:

Tester connection	Condition	Specified condition
A28–15 (RBE+) – Body ground	Ignition switch ON	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

4 CHECK FLOOR WIRE(TO GROUND)



(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Measure the resistance according to the value(s) in the table below.

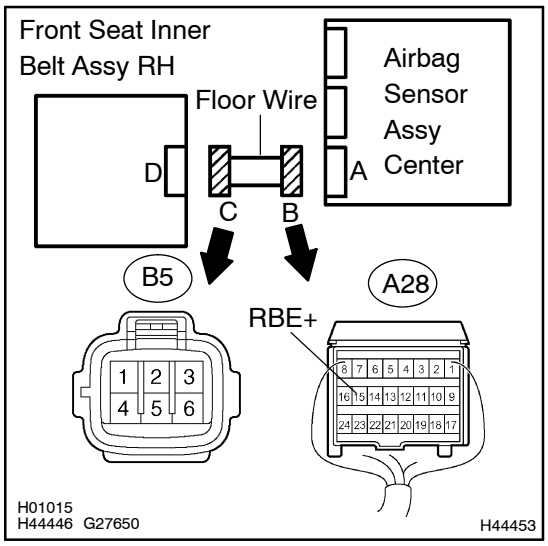
Standard:

Tester connection	Condition	Specified condition
A28–15 (RBE+) – Body ground	Always	1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

5 CHECK FLOOR WIRE(OPEN)



(a) Measure the resistance according to the value(s) in the table below.

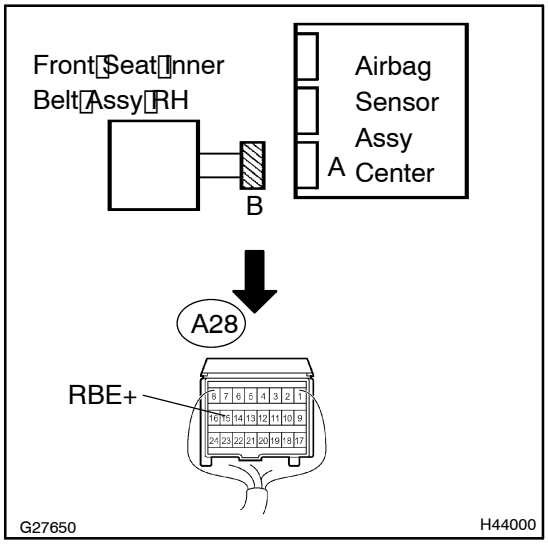
Standard:

Tester connection	Condition	Specified condition
B5–2 – A28–15 (RBE+)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

6 CHECK FRONT SEAT INNER BELT ASSY RH



(a) Connect the connector to the front seat inner belt assy RH.
(b) Unfasten the seat belt for the front seat RH.
(c) Measure the resistance according to the value(s) in the table below.

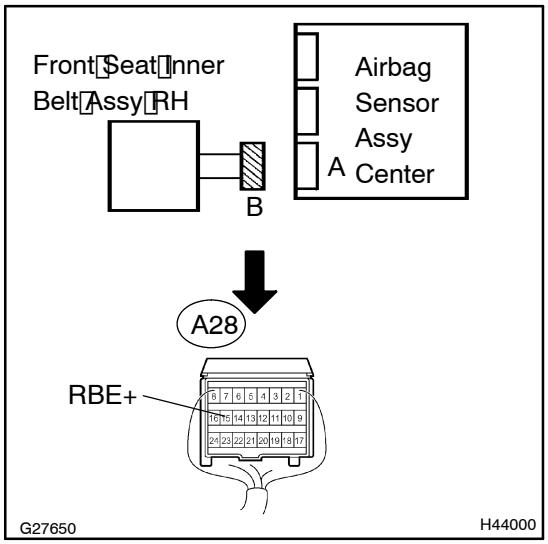
Standard:

Tester connection	Condition	Specified condition
A28–15 (RBE+) – Body ground	Unfasten the seat belt	1,250 to 1,450 Ω

NG → **REPLACE FRONT SEAT INNER BELT ASSY RH (SEE PAGE 72–3)**

OK

7 CHECK FRONT SEAT INNER BELT ASSY RH



(a) Fasten the seat belt for the front seat RH.
(b) Measure the resistance according to the value(s) in the table below.

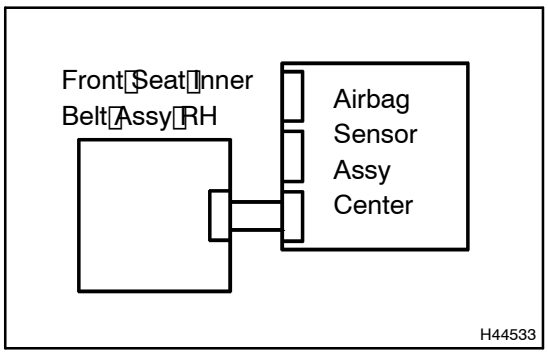
Standard:

Tester connection	Condition	Specified condition
A28–15 (RBE+) – Body ground	Fasten the seat belt	300 to 360 Ω

NG → **REPLACE FRONT SEAT INNER BELT ASSY RH (SEE PAGE 72–3)**

OK

8	CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connector to the airbag sensor assy center.
(b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (see page 05–959).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (see page 05–959).

OK:

DTC B1655 is not output.

HINT:

Codes other than code B1655 may be output at this time, but they are not related to this check.

NG	REPLACE AIR BAG SENSOR ASSY CENTER (SEE PAGE 60–74)

OK

USE SIMULATION METHOD TO CHECK (SEE PAGE 05–954)