

DTC	B1655/37	Driver Side Seat Belt Buckle Switch Circuit Malfunction
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DESCRIPTION

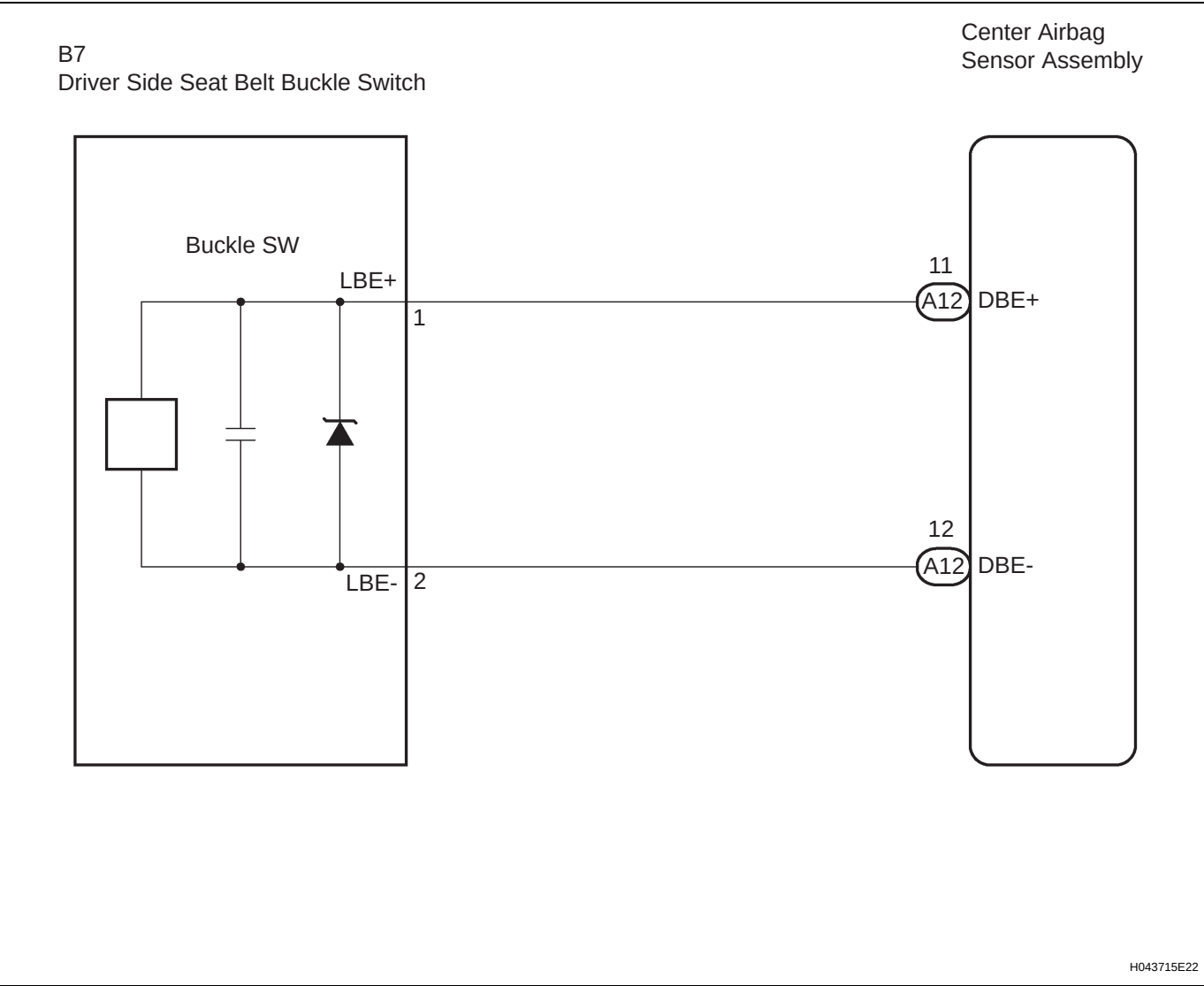
RS

The driver side seat belt buckle switch circuit consists of the center airbag sensor assembly and the front seat inner belt assembly LH.
DTC B1655/37 is recorded when a malfunction is detected in the driver side seat belt buckle switch circuit.

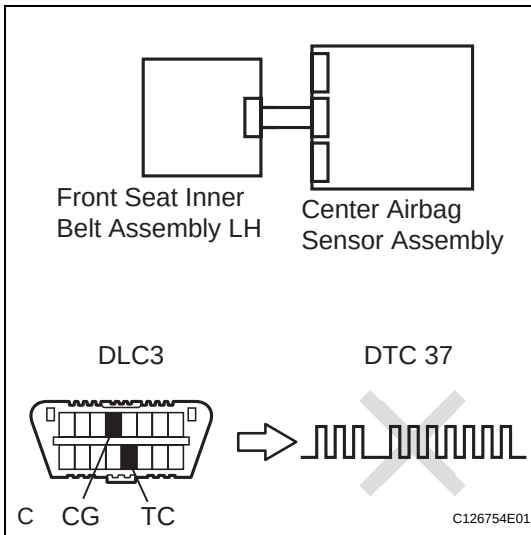
DTC No.	DTC Detection Condition	Trouble Area
B1655/37	- The center airbag sensor assembly receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the driver side seat belt buckle switch circuit for 2 seconds. - Front seat inner belt assembly LH malfunction - Center airbag sensor assembly malfunction	- Floor wire (*1) - Instrument panel wire No. 3 (*2) - Front seat inner belt assembly LH (Driver side seat belt buckle switch) - Center airbag sensor assembly

*1: with Side and curtain shield airbag
*2: without Side and curtain shield airbag

WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK DTC

OK

- (a) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (b) Clear the DTCs stored in the memory (See page RS-34).
- (c) Turn the ignition switch to the LOCK position.
- (d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (e) Check the DTCs (See page RS-37).

OK:**DTC B1655/37 is not output.****HINT:**

Codes other than DTC B1655/37 may be output at this time, but they are not related to this check.

NG

Go to step 2

USE SIMULATION METHOD TO CHECK

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 center airbag sensor assembly and the front seat inner belt assembly LH.

OK:**The connectors are properly connected.**

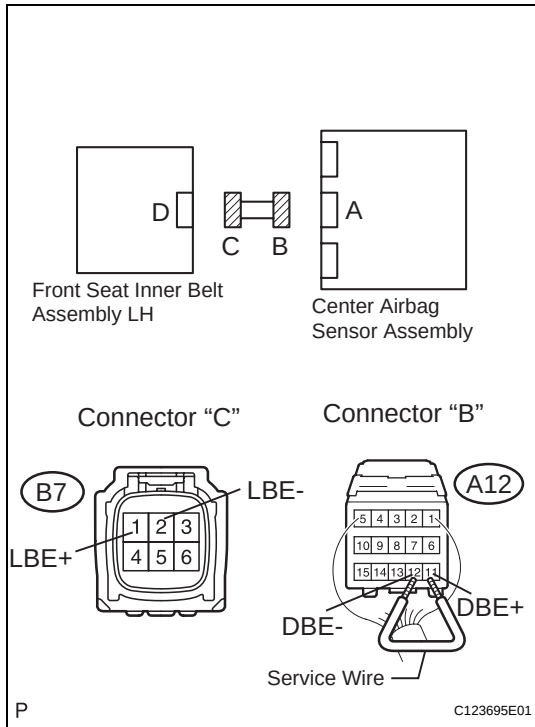
NG

CONNECT CONNECTORS, THEN GO TO STEP 1

OK

RS

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3 CHECK WIRE HARNESS (OPEN)

- Disconnect the connectors from the center airbag sensor assembly and the front seat inner belt assembly LH.
- Using a service wire, connect A12-11 (DBE+) and A12-12 (DBE-) of connector "B".

NOTICE:

Do not forcibly insert a service wire into the terminals of the connector when connecting.

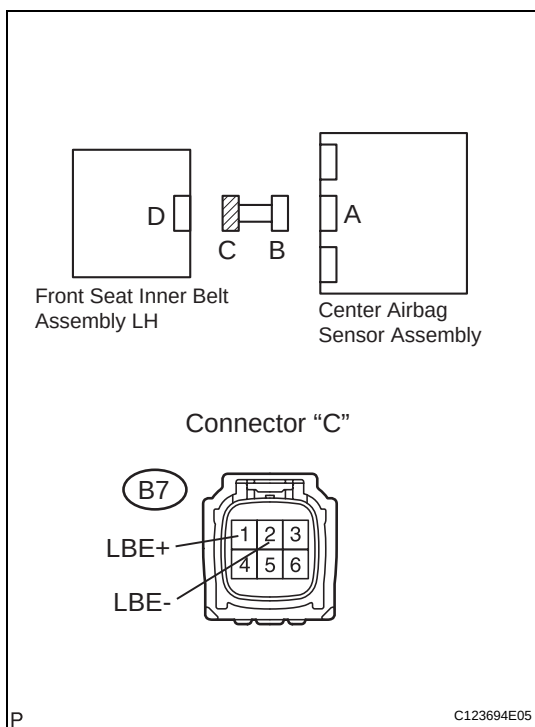
- Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester connection	Condition	Specified condition
B7-1 (LBE+) - B7-2 (LBE-)	Always	Below 1 Ω

Result

Result	Proceed to
OK	A
NG (with Side and curtain shield airbag)	B
NG (without Side and curtain shield airbag)	C

B**REPAIR OR REPLACE FLOOR WIRE****C****REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO. 3****A****4 CHECK WIRE HARNESS (SHORT)**

- Disconnect the service wire from connector "B".
- Measure the resistance according to the value(s) in the table below.

Standard resistance

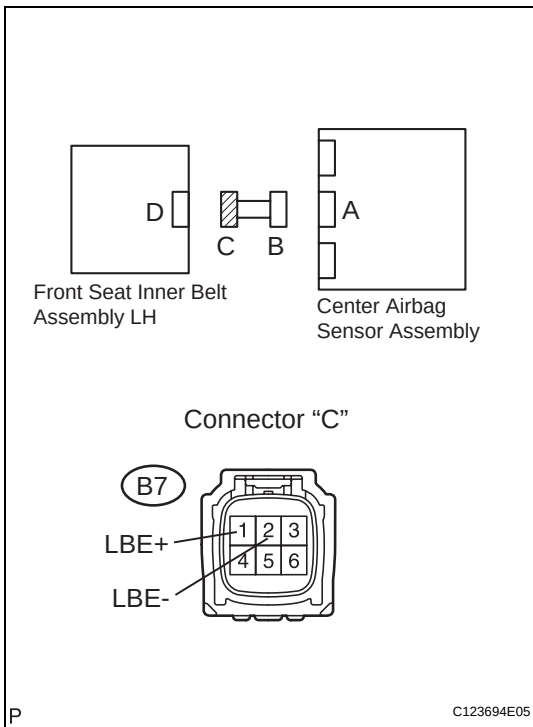
Tester connection	Condition	Specified condition
B7-1 (LBE+) - B7-2 (LBE-)	Always	1 M Ω or higher

Result

Result	Proceed to
OK	A
NG (with Side and curtain shield airbag)	B
NG (without Side and curtain shield airbag)	C

B**REPAIR OR REPLACE FLOOR WIRE****C****REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO. 3**

A

5 CHECK WIRE HARNESS (SHORT TO B+)

- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester connection	Condition	Specified condition
B7-1 (LBE+) - Body ground	Ignition switch ON	Below 1 V
B7-2 (LBE-) - Body ground	Ignition switch ON	Below 1 V

Result

Result	Proceed to
OK	A
NG (with Side and curtain shield airbag)	B
NG (without Side and curtain shield airbag)	C

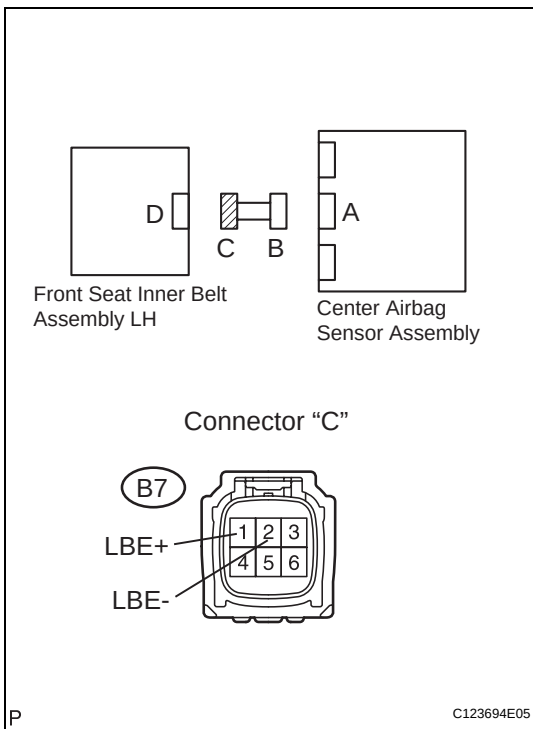
B

REPAIR OR REPLACE FLOOR WIRE

C

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO. 3

A

6 CHECK WIRE HARNESS (SHORT TO GROUND)

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

Standard resistance

Tester connection	Condition	Specified condition
B7-1 (LBE+) - Body ground	Always	1 M Ω or higher
B7-2 (LBE-) - Body ground	Always	1 M Ω or higher

Result

Result	Proceed to
OK	A
NG (with Side and curtain shield airbag)	B
NG (without Side and curtain shield airbag)	C

B

REPAIR OR REPLACE FLOOR WIRE

C

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO. 3

RS

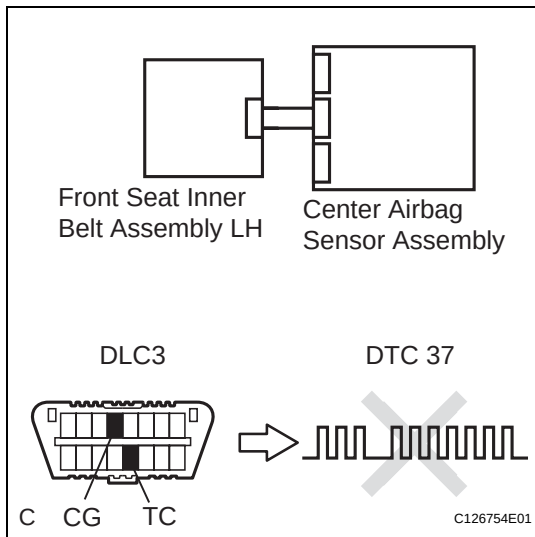
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A

7

CHECK FRONT SEAT INNER BELT ASSEMBLY LH

RS



- Connect the connector to the center airbag sensor assembly and the front seat inner belt assembly LH.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page RS-34).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check the DTCs (See page RS-34).

OK:**DTC B1655/37 is not output.****HINT:**

Codes other than DTC B1655/37 may be output at this time, but they are not related to this check.

NG

Go to step 8

OK

USE SIMULATION METHOD TO CHECK

8

REPLACE FRONT SEAT INNER BELT ASSEMBLY LH

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Replace the front seat inner belt assembly LH (See page SB-4).

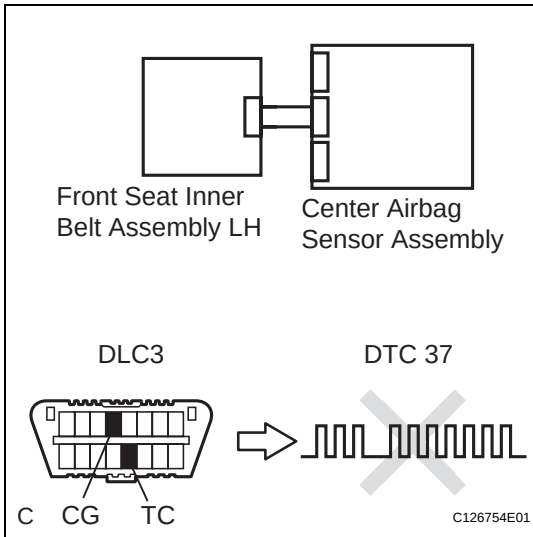
HINT:

Perform inspection using parts from a normal vehicle if possible.

NEXT

9

CHECK CENTER AIRBAG SENSOR ASSEMBLY



- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page RS-34).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check the DTCs (See page RS-34).

OK:**DTC B1655/37 is not output.****HINT:**

Codes other than DTC B1655/37 may be output at this time, but they are not related to this check.

NG**REPLACE CENTER AIRBAG SENSOR ASSEMBLY****OK****END****RS**