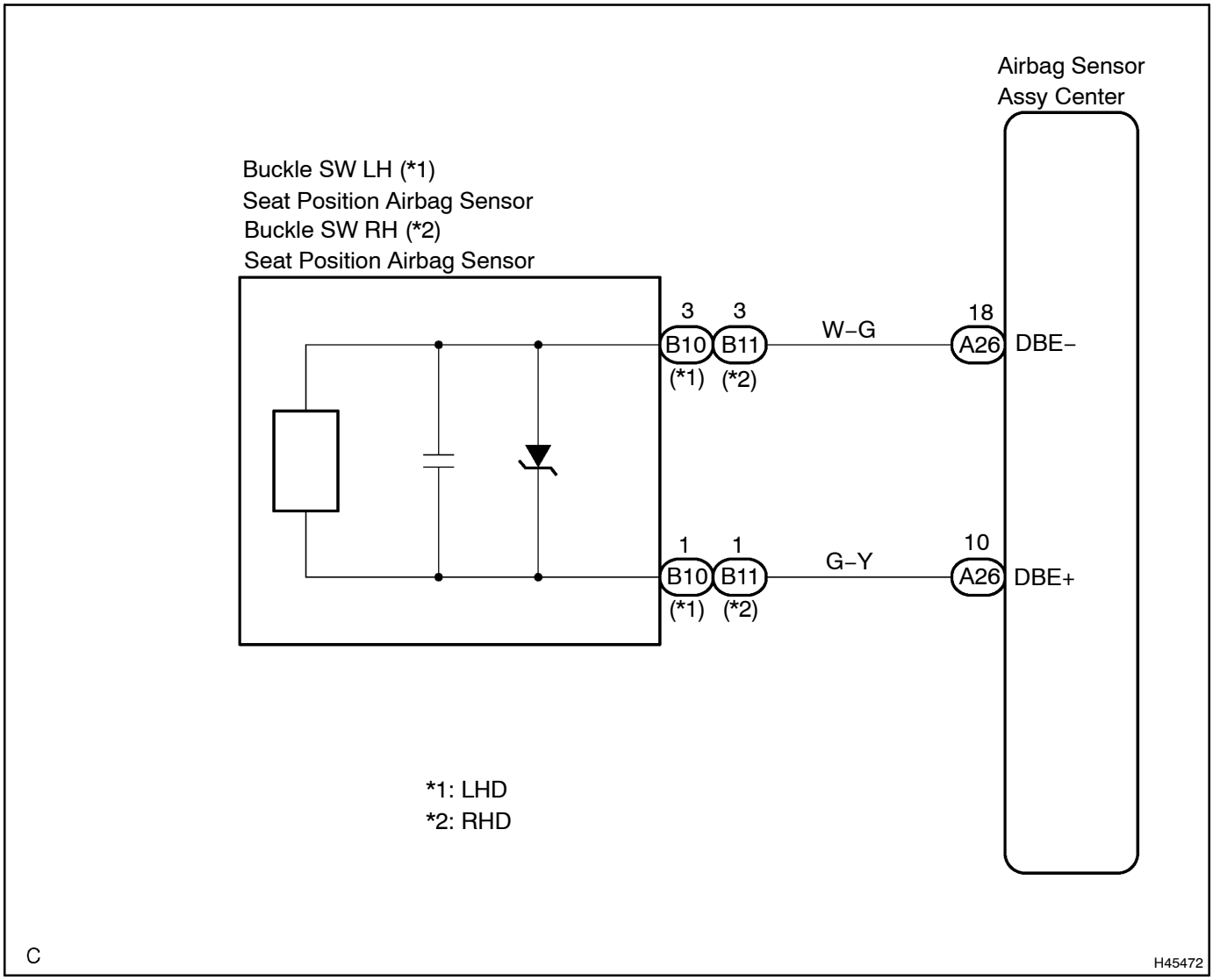
DTC B1655/37 SEAT BELT BUCKLE SWITCH (D SEAT SIDE) MALFUNCTION

CIRCUIT DESCRIPTION

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

DTC No.	DTC Detecting Condition	Trouble Area
B1655/37	• The airbag sensor assy center 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 seat belt buckle switch (D seat side) circuit for 2 seconds. • Seat belt buckle switch (D seat side) malfunction • Airbag sensor assy center malfunction	• Front seat inner belt assy LH (LHD) • Front seat inner belt assy RH (RHD) • Airbag sensor assy center • Floor wire

WIRING DIAGRAM



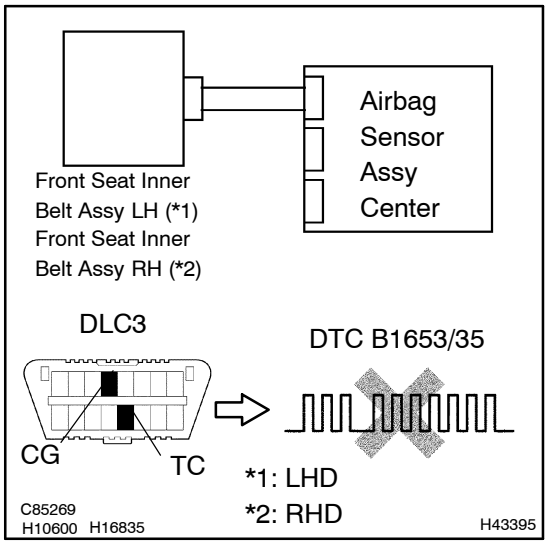
INSPECTION PROCEDURE

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 connectors from the front passenger airbag assy.
(f) Disconnect the connector from the front seat airbag assy LH.
(g) Disconnect the connector from the front seat airbag assy RH.
(h) w/ Curtain shield airbag:
Disconnect the connector from the curtain shield airbag assy LH.
(i) w/ Curtain shield airbag:
Disconnect the connector from the curtain shield airbag assy RH.
(j) Disconnect the connector from the front seat outer belt assy LH.
(k) Disconnect the connector from the front seat outer belt assy RH.

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 05–16).
(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 05–16).
OK:
DTC B1655/37 is not output.

HINT:
Codes other than code B1653/35 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 05–10)

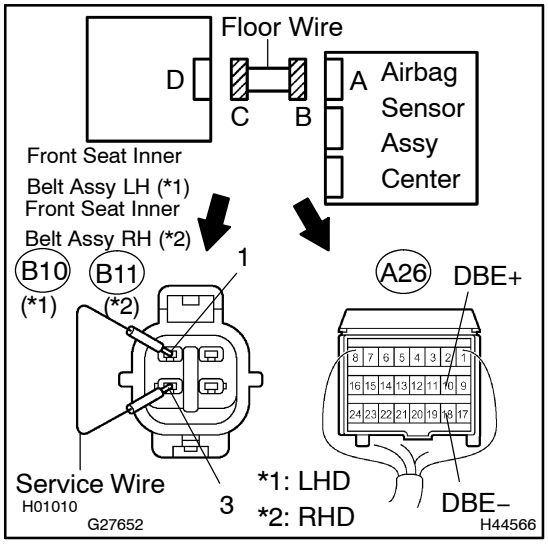
2 CHECK CONNECTION OF CONNECTORS

(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) LHD:
Check that the connectors are properly connected to the airbag sensor assy center and the front seat inner belt assy LH.
(d) RHD:
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 (OPEN)



(a) LHD:
Disconnect the connectors from the airbag sensor assy center and the front seat inner belt assy LH.
(b) RHD:
Disconnect the connectors from the airbag sensor assy center and the front seat inner belt assy RH.
(c) LHD:
Using a service wire, connect B10–1 and B10–3 of connector ”C”.
(d) RHD:
Using a service wire, connect B11–1 and B11–3 of connector ”C”.

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

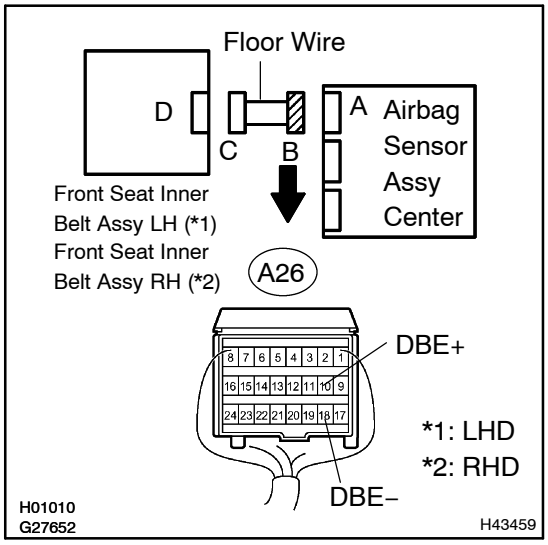
(e) Measure the resistance according to the value(s) in the table below.
Standard:

Tester connection	Condition	Specified condition
A26–10 (DBE+) – A26–18 (DBE–)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

4 CHECK FLOOR WIRE (SHORT)



(a) Disconnect the service wire from connector "C".
(b) Measure the resistance according to the value(s) in the table below.

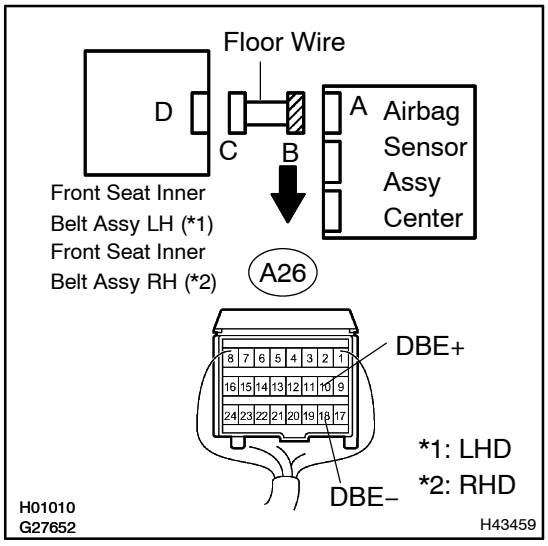
Standard:

Tester connection	Condition	Specified condition
A26–10 (DBE+) – A26–18 (DBE–)	Always	1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

5 CHECK FLOOR WIRE (TO B+)



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

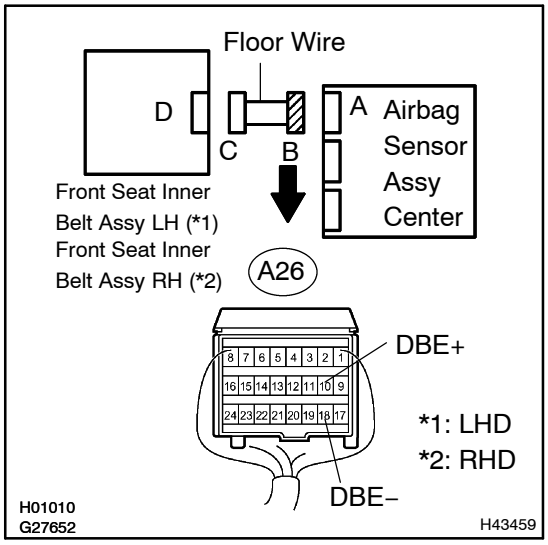
Standard:

Tester connection	Condition	Specified condition
A26–10 (DBE+) – Body ground	Ignition switch ON	Below 1 V
A26–18 (DBE–) – Body ground	Ignition switch ON	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

6 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.

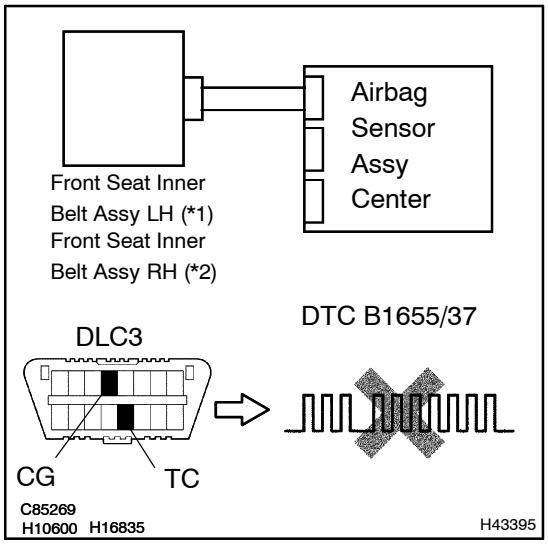
Standard:

Tester connection	Condition	Specified condition
A26–10 (DBE+) – Body ground	Always	1 MΩ or Higher
A26–18 (DBE–) – Body ground	Always	1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

7 CHECK SEAT BELT BUCKLE SWITCH (D SEAT SIDE)



(a) LHD:
Connect the connectors to the airbag sensor assy center and the front seat inner belt assy LH.
(b) RHD:
Connect the connectors to the airbag sensor assy center and the front seat inner belt assy RH.
(c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page 05–16).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(h) Check the DTCs (see page 05–16).

OK:

DTC B1655/37 is not output.

HINT:
Codes other than code 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 (SEE PAGE 05–10)

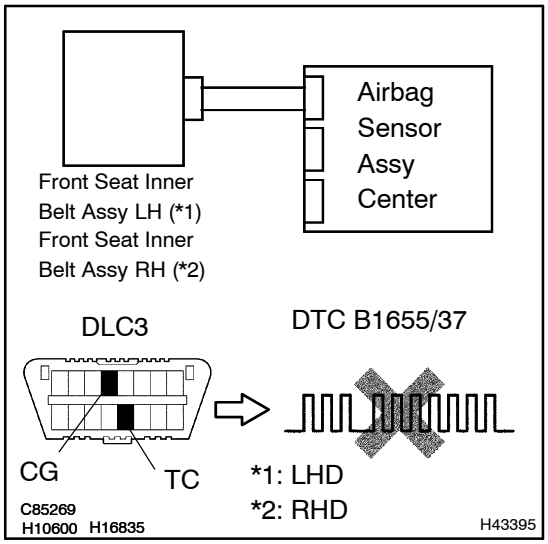
8	REPLACE SEAT BELT BUCKLE SWITCH (D SEAT SIDE)

(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) LHD:
Replace the front seat inner belt assy LH (see page 72–4 and 72–18).
(d) RHD:
Replace the front seat inner belt assy RH (see page 72–4 and 72–18).

HINT:
Perform the inspection using parts from a normal vehicle if possible.

NEXT

9	CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(b) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(c) Clear the DTCs stored in memory (see page 05–16).
(d) Turn the ignition switch to the LOCK position.
(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(f) Check the DTCs (see page 05–16).
OK:
DTC B1655/37 is not output.

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

NG → **REPLACE AIR BAG SENSOR ASSY CENTER (SEE PAGE 60–40)**

OK

END