

<b>DTC</b>	<b>B1653/35</b>	<b>SEAT POSITION SENSOR ASSEMBLY MALFUNCTION</b>
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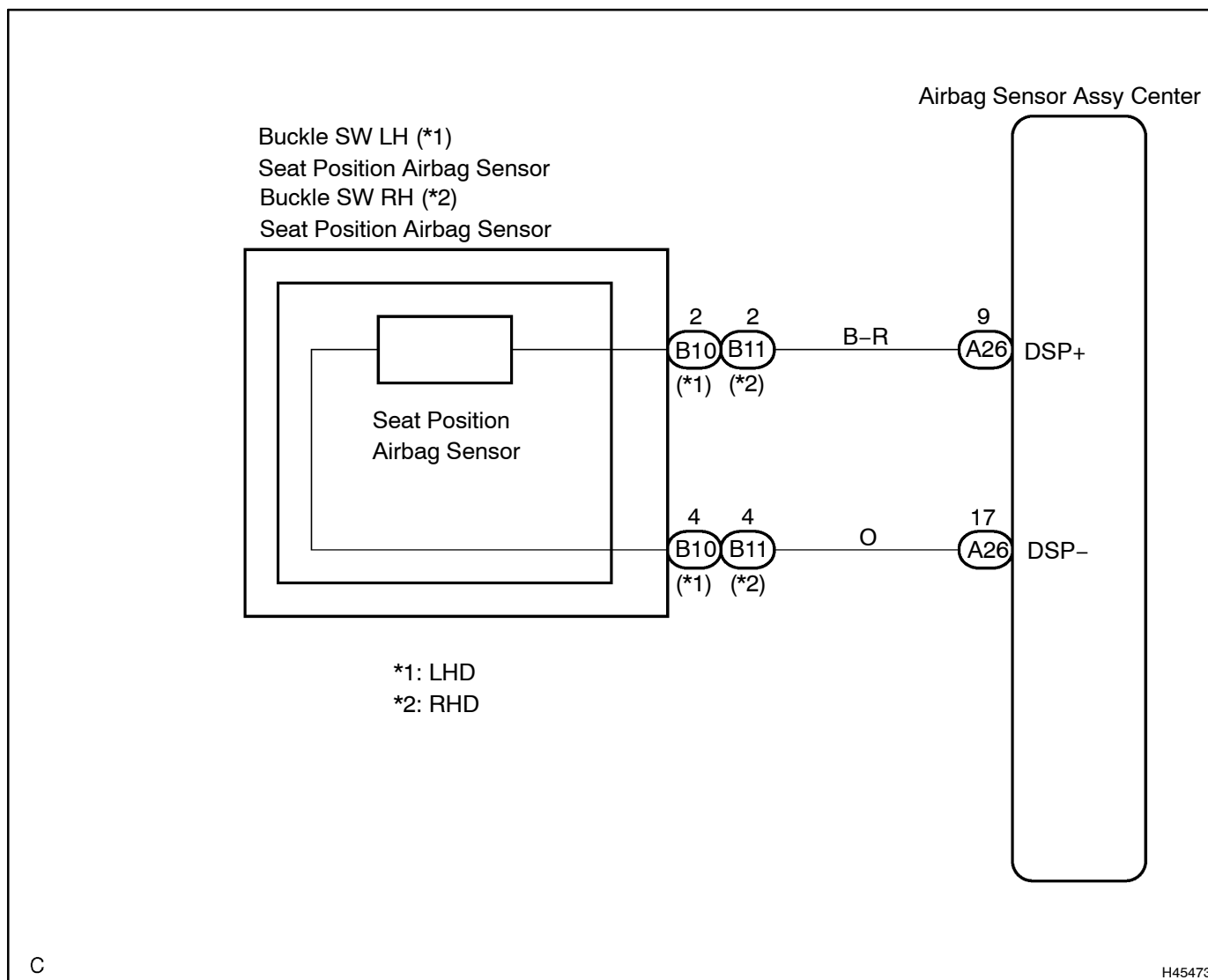
## CIRCUIT DESCRIPTION

The seat position sensor assembly circuit consists of the airbag sensor assy center and the seat position airbag sensor.

DTC B1653/35 is recorded when a malfunction is detected in the seat position sensor assembly circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1653/35	<ul style="list-style-type: none"> <li>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 position airbag sensor circuit for 2 seconds.</li> <li>Seat position airbag sensor malfunction</li> <li>Airbag sensor assy center malfunction</li> </ul>	<ul style="list-style-type: none"> <li>Seat position airbag sensor</li> <li>Airbag sensor assy center</li> <li>Floor wire</li> </ul>

## WIRING DIAGRAM



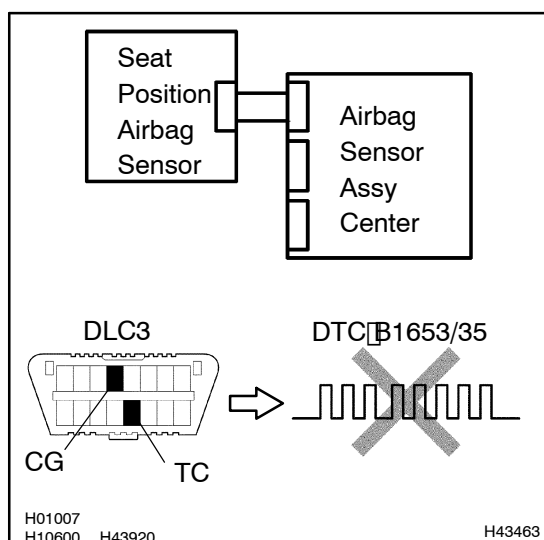
## INSPECTION PROCEDURE

### 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 B1653/35 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) Check that the connectors are properly connected to the airbag sensor assy center and the seat position airbag sensor.

**OK:**

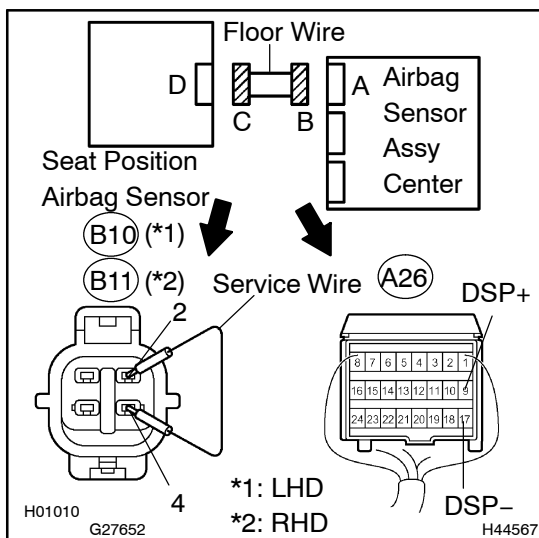
## The connectors are connected.

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

**OK**

3	CHECK FLOOR WIRE (OPEN)
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- (a) Disconnect the connectors from the airbag sensor assembly center and the seat position airbag sensor.
- (b) LHD:  
Using a service wire, connect B10-2 and B11-4 of connector "C".
- (c) RHD:  
Using a service wire, connect B11-2 and B11-4 of connector "C".

**NOTICE:**

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

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

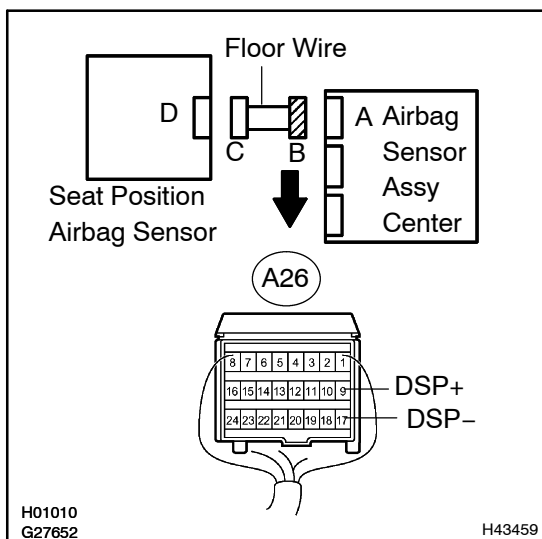
**Standard:**

Tester connection	Condition	Specified condition
A26-9 (DSP+) – A26-17 (DSP-)	Always	Below 1 $\Omega$

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## REPAIR OR REPLACE FLOOR WIRE

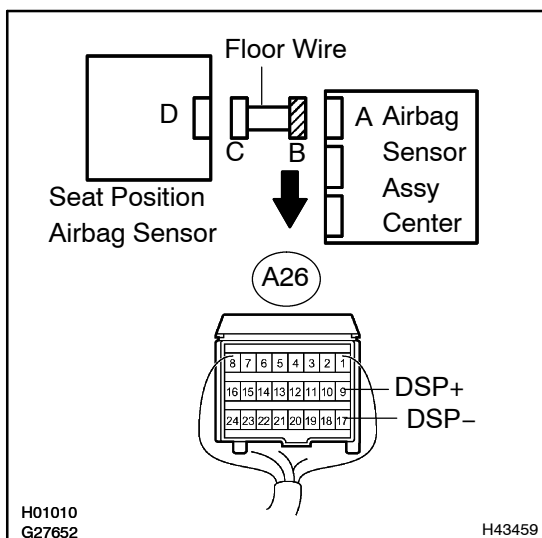
**OK**

**4 CHECK FLOOR WIRE (SHORT)**

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

**Standard:**

Tester connection	Condition	Specified condition
A26-9 (DSP+) – A26-17 (DSP-)	Always	1 MΩ or Higher

**NG****REPAIR OR REPLACE FLOOR WIRE****OK****5 CHECK FLOOR WIRE (TO B+)**

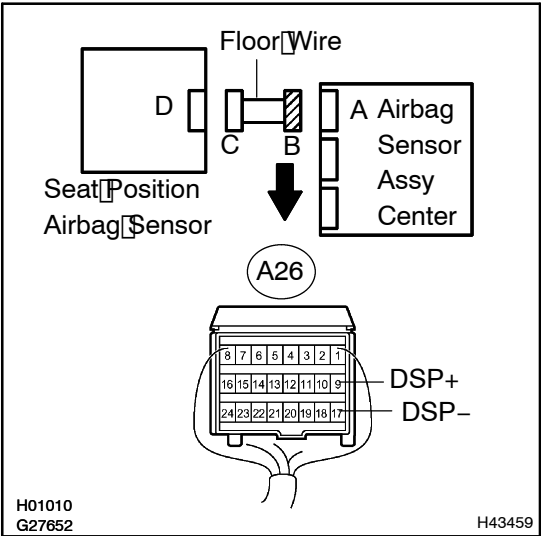
- Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- Measure the voltage according to the value(s) in the table below.

**Standard:**

Tester connection	Condition	Specified condition
A26-9 (DSP+) – Body ground	Ignition switch ON	Below 1 V
A26-17 (DSP-) – 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.

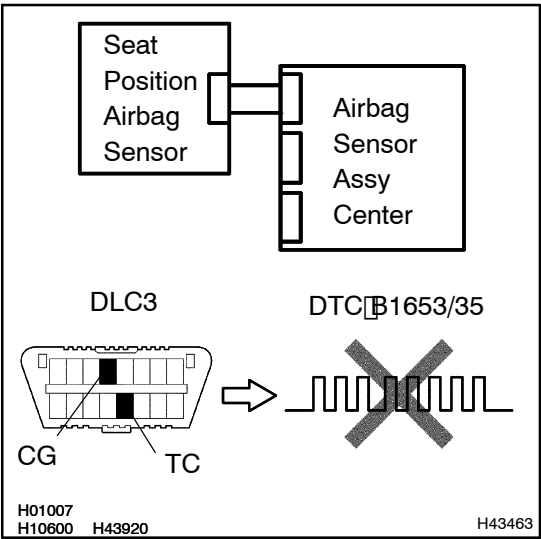
Standard:

Tester connection	Condition	Specified condition
A26-9 (DSP+) - Body ground	Always	1 MΩ or Higher
A26-17 (DSP-) - Body ground	Always	1 MΩ or Higher

NG REPAIR OR REPLACE FLOOR WIRE

OK

7 CHECK SEAT POSITION AIR BAG SENSOR



- (a) Connect the connectors to the airbag sensor assy center.
- (b) Connect the connector to the seat position airbag sensor.
- (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 B1653/35 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 9

OK

USE SIMULATION METHOD TO CHECK (SEE PAGE 05-10)

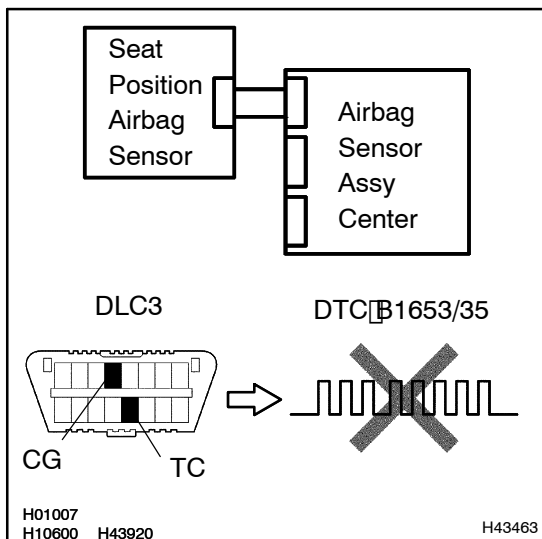
**8 REPLACE SEAT POSITION AIR BAG SENSOR**

- (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) Replace the seat position airbag sensor (see page 60-43).

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 B1653/35 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**

**REPLACE AIR BAG SENSOR ASSY CENTER  
(SEE PAGE 60-40)**

**OK**

**END**