

DTC	B1620/21	SIDE AIRBAG SENSOR ASSEMBLY (D SEAT SIDE) MALFUNCTION
------------	-----------------	--

CIRCUIT DESCRIPTION

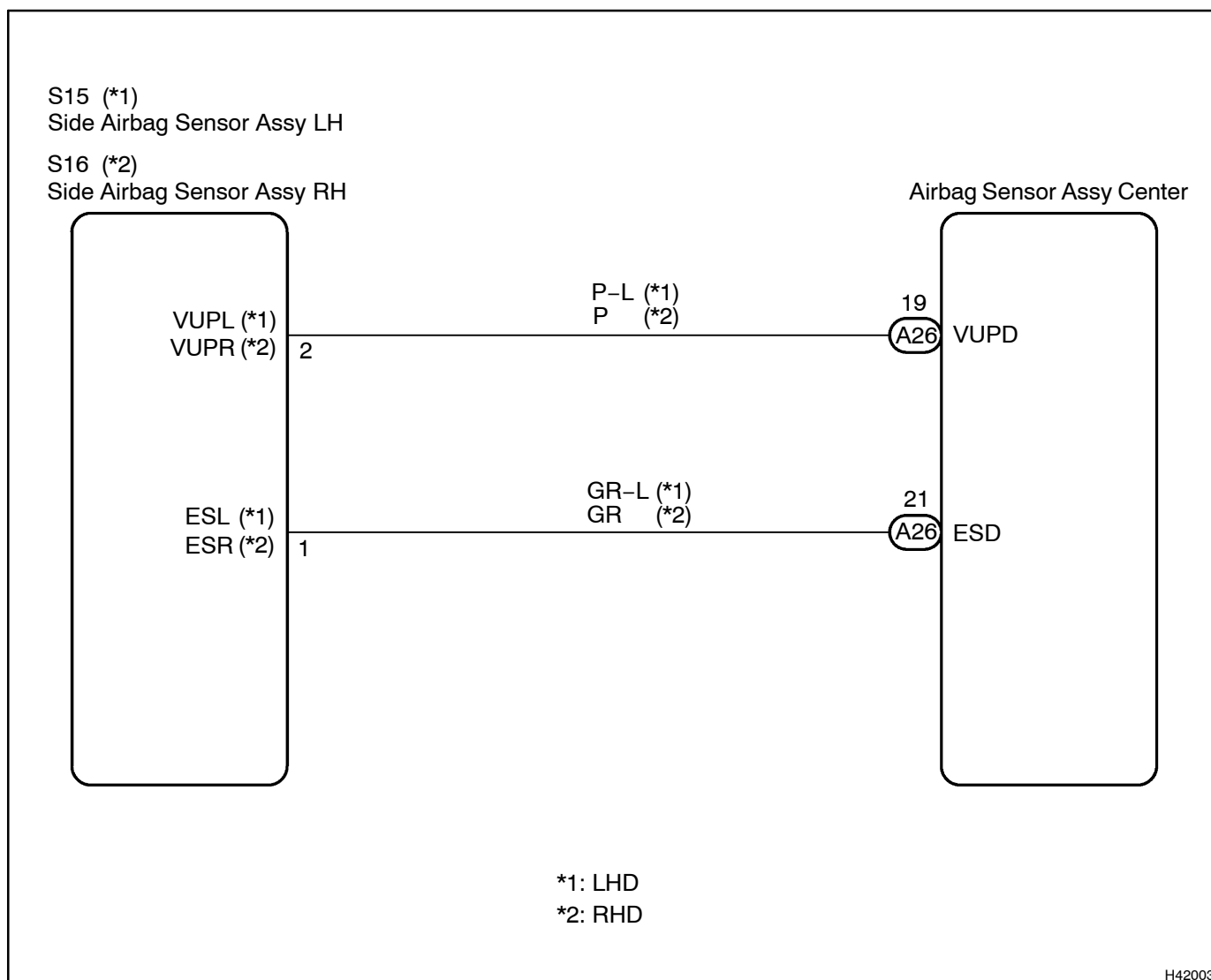
The side airbag sensor assy (D seat side) consists of the safing sensor, the diagnostic circuit, the lateral deceleration sensor, etc.

If the airbag sensor assy center receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.

DTC B1620/21 is recorded when a malfunction is detected in the side airbag sensor assembly (D seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1620/21	<ul style="list-style-type: none"> • 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 side airbag sensor assembly (D seat side) circuit for 2 seconds. • Side airbag sensor assembly (D seat side) malfunction • Airbag sensor assy center malfunction 	<ul style="list-style-type: none"> • Side airbag sensor assy LH (LHD) • Side airbag sensor assy RH (RHD) • Airbag sensor assy center • Floor wire

WIRING DIAGRAM



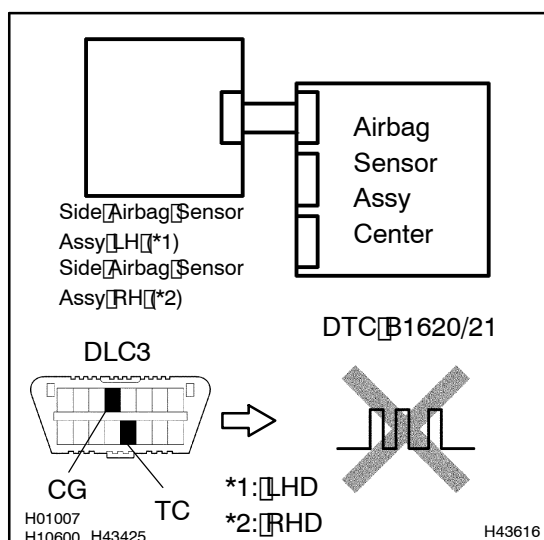
INSPECTION PROCEDURE

CAUTION:

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

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the airbag sensor Assy center.
- Disconnect the connectors from the horn button Assy.
- Disconnect the connectors from the front passenger airbag Assy.
- Disconnect the connector from the front seat airbag Assy LH.
- Disconnect the connector from the front seat airbag Assy RH.
- w/ Curtain shield airbag:
Disconnect the connector from the curtain shield airbag Assy LH.
- w/ Curtain shield airbag:
Disconnect the connector from the curtain shield airbag Assy RH.
- Disconnect the connector from the front seat outer belt Assy LH.
- Disconnect the connector from the front seat outer belt Assy RH.

1 CHECK DTC



- Connect the connectors to the airbag sensor Assy center.
- 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 memory (see page 05-16).
- 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 05-16).

OK:

DTC B1620/21 is not output.

HINT:

Codes other than code B1620/21 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 side airbag sensor assy LH.
- (d) RHD:
Check that the connectors are properly connected to the airbag sensor assy center and the side airbag sensor assy RH.

OK:

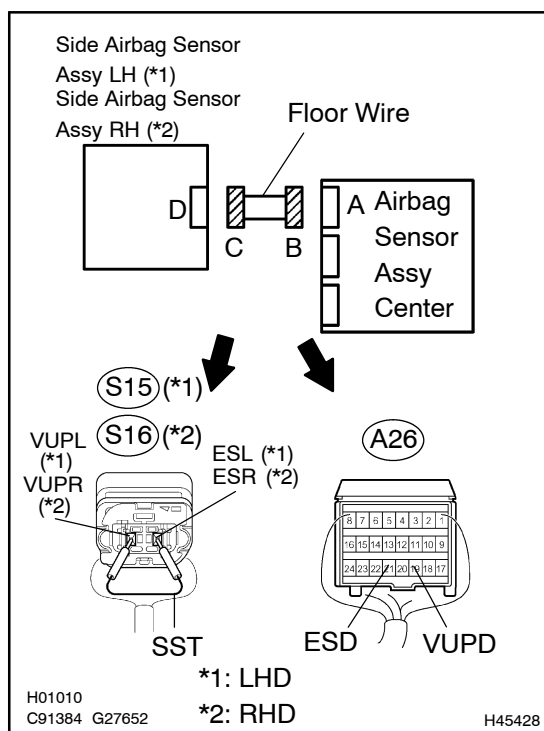
The connectors are connected.

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 side airbag sensor assy LH.
- (b) RHD:
Disconnect the connectors from the airbag sensor assy center and the side airbag sensor assy RH.
- (c) LHD:
Using SST, connect S15-2 (VUPL) and S15-1 (ESL) of connector "C".
- (d) RHD:
Using SST, connect S16-2 (VUPR) and S16-1 (ESR) of connector "C".
SST 09843-18040
- (e) Measure the resistance according to the value(s) in the table below.

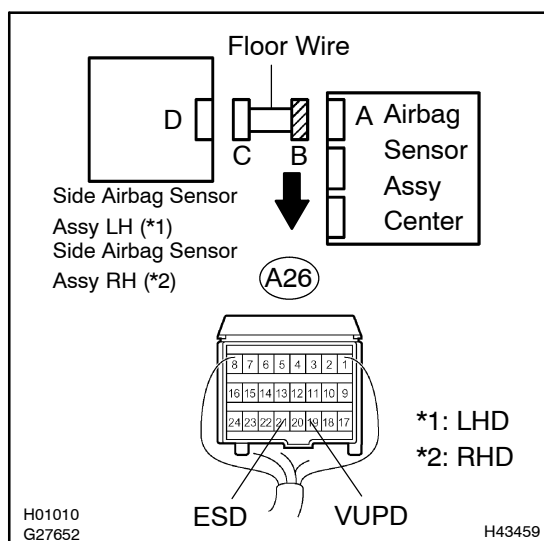
Standard:

Tester connection	Condition	Specified condition
A26-19 (VUPD) - A26-21 (ESD)	Always	Below 1 Ω

NG

REPAIR OR REPLACE FLOOR WIRE

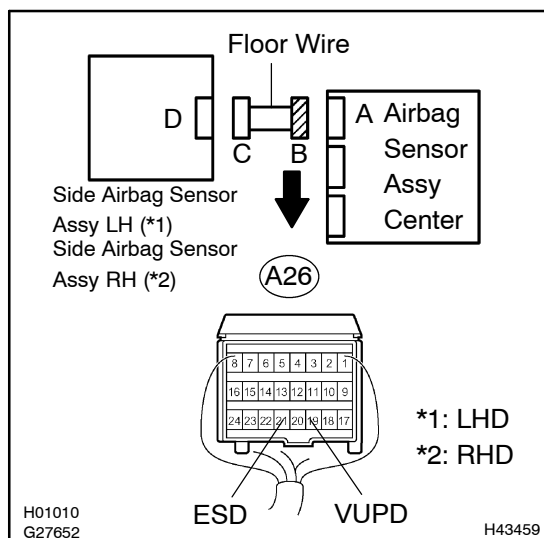
OK

4 CHECK FLOOR WIRE (SHORT)

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

Standard:

Tester connection	Condition	Specified condition
A26-19 (VUPD) - A26-21 (ESD)	Always	1 MΩ or Higher

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

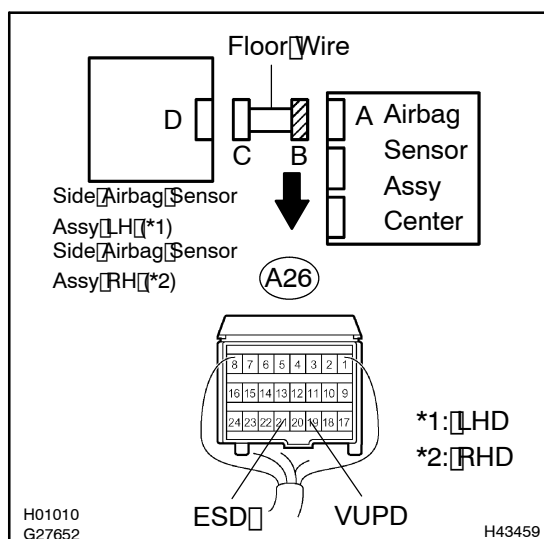
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- Measure the voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A26-19 (VUPD) - Body ground	Ignition switch ON	Below 1 V
A26-21 (ESD) - Body ground	Ignition switch ON	Below 1 V

NG**REPAIR OR REPLACE FLOOR WIRE****OK**

6 CHECK FLOOR WIRE (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:

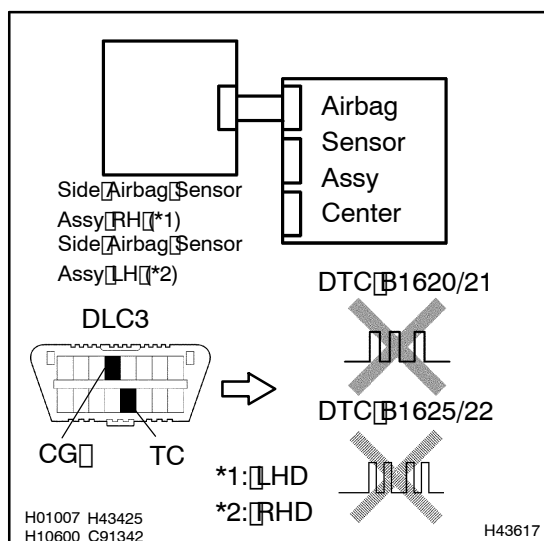
Tester connection	Condition	Specified condition
A26-19 (VUPD) - Body ground	Always	1 MΩ or Higher
A26-21 (ESD) - Body ground	Always	1 MΩ or Higher

NG

REPAIR OR REPLACE FLOOR WIRE

OK

7 CHECK SIDE AIRBAG SENSOR ASSEMBLY (D SEAT SIDE)



- Connect the connectors to the airbag sensor assembly center.
- Interchange the side airbag sensor assembly RH with LH and connect the connectors to them.
- 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 2 seconds.
- Clear the DTCs stored in memory (see page 05-16).
- 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 05-16).

Result:

A	DTC B1620/21 is output.
B	DTC B1625/22 is output (LHD).
C	DTC B1625/22 is output (RHD).
D	DTC B1620/21 and B1625/22 are not output.

A

REPLACE AIRBAG SENSOR ASSY CENTER
(SEE PAGE 60-40)

B

REPLACE SIDE AIRBAG SENSOR ASSY LH (LHD) (SEE PUB. NO. RM915E, PAGE 60-60)

C

REPLACE SIDE AIRBAG SENSOR ASSY RH (RHD) (SEE PUB. NO. RM915E, PAGE 60-60)

OK

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