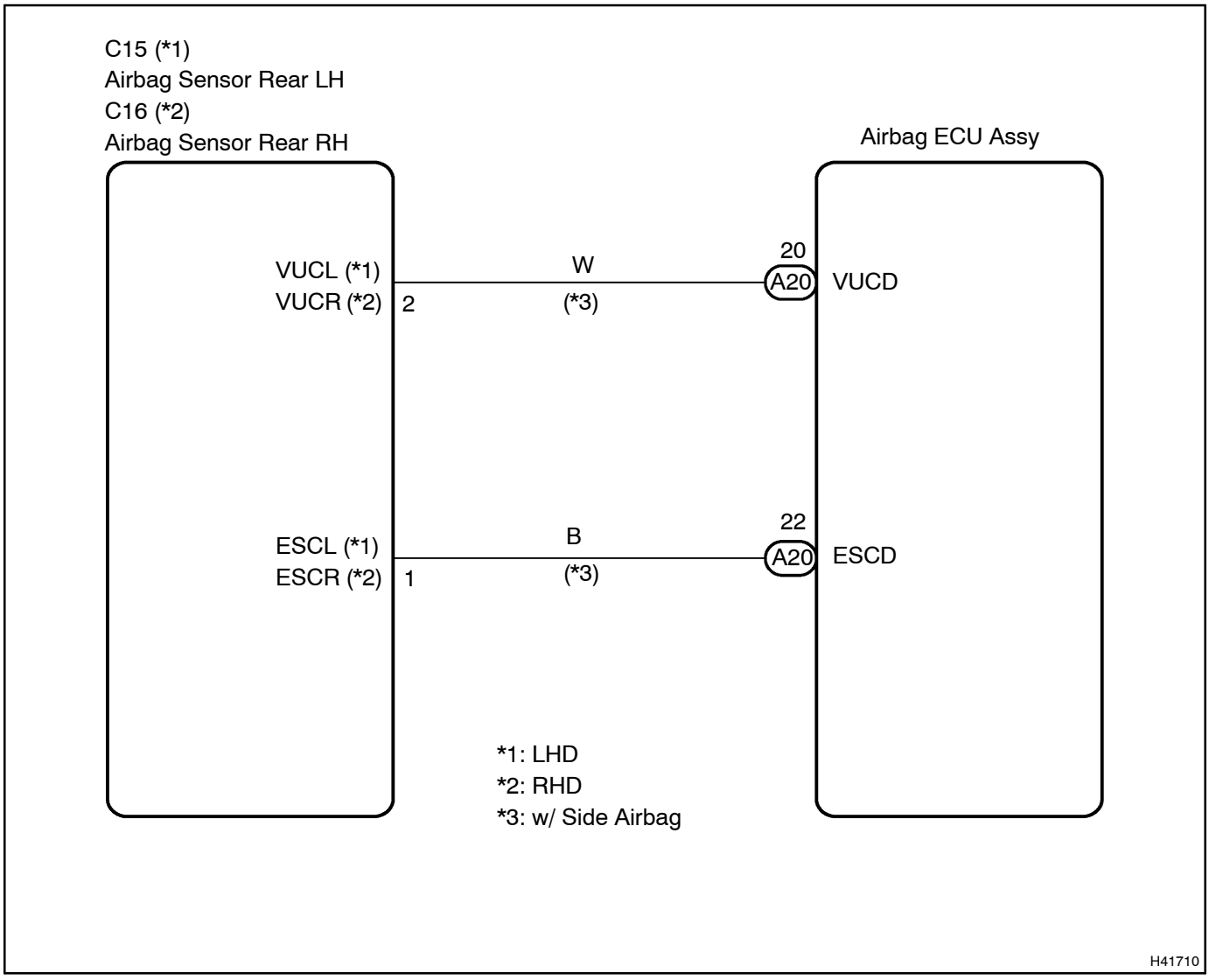
DTC	B1630	CURTAIN SHIELD AIRBAG SENSOR (D SEAT SIDE) MALFUNCTION

CIRCUIT DESCRIPTION

The curtain shield airbag sensor (D seat side) consists of the safing sensor, the diagnostic circuit, the lateral deceleration sensor, etc.
If the airbag ECU assy receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.
DTC B1630 is recorded when a malfunction is detected in the curtain shield airbag sensor (D seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1630	• When the airbag sensor assy receives a line short signal, open signal, short to ground signal or B+ short signal in the curtain shield airbag sensor (D seat side) circuit for 2 seconds. • Curtain shield airbag senosr (D seat side) malfunction • Airbag ECU assy malfunction	• Floor wire • Airbag sensor rear LH (LHD) • Airbag sensor rear RH (RHD) • Airbag ECU assy

WIRING DIAGRAM



INSPECTION PROCEDURE

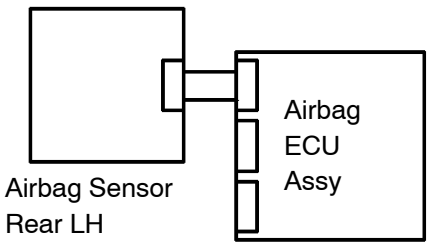
CAUTION:

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

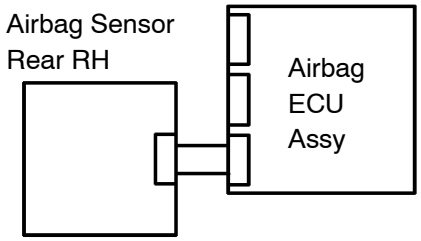
(a) Turn the power switch off.
(b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the airbag ECU assy.
(d) Disconnect the connectors from the horn button assy.
(e) Disconnect the connectors from the front passenger airbag assy.
(f) Disconnect the connector from the front seat airbag assy LH.
(g) Disconnect the connector from the front seat airbag assy RH.
(h) Disconnect the connector from the curtain shield airbag assy LH.
(i) 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

LHD:



RHD:



H44534
H44533
H44570

(a) Connect the connectors to the airbag ECU assy.
(b) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the power switch on (IG), and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (see page 05–1170).
(e) Turn the power switch off.
(f) Turn the power switch on (IG), and wait for at least 60 seconds.
(g) Check the DTCs (see page 05–1170).

OK:

DTC B1630 is not output.

HINT:

Codes other than code B1630 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 05–1155)

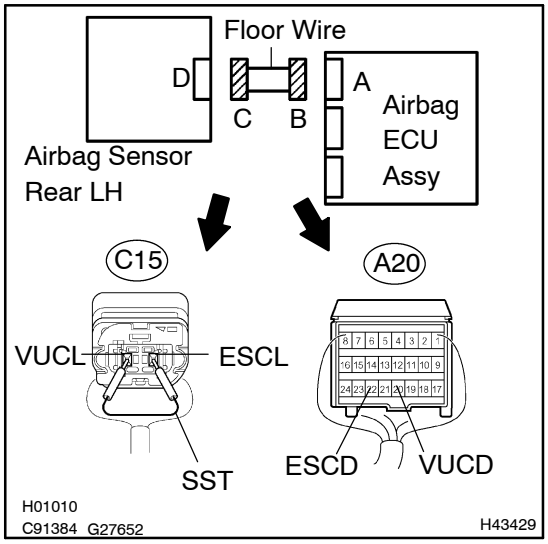
2 CHECK CONNECTION OF CONNECTORS

(a) Turn the power switch off.
(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 ECU assy and the airbag sensor rear LH.
(d) RHD:
Check that the connectors are properly connected to the airbag ECU assy and the airbag sensor rear RH.
OK:
The connectors are connected.

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

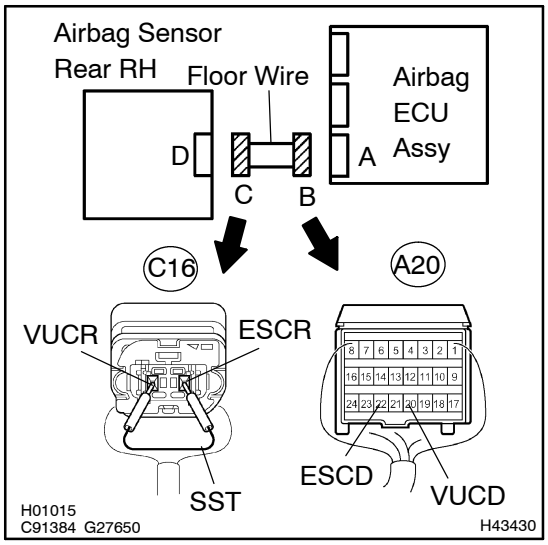
OK

3 CHECK FLOOR WIRE(OPEN)



(a) LHD:
(1) Disconnect the connectors from the airbag ECU assy and the airbag sensor rear LH.
(b) Using SST, connect C15–2 (VUCL) and C15–1 (ESCL) of connector "C".
SST 09843–18040
(c) Measure the resistance according to the value(s) in the table below.
Standard:

Tester connection	Condition	Specified condition
A20–20 (VUCD) – A20–22 (ESCD)	Always	Below 1 Ω



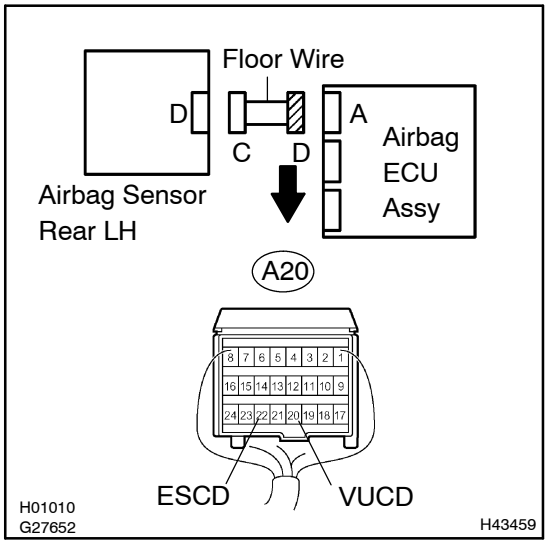
(d) RHD:
(1) Disconnect the connectors from the airbag ECU assy and the airbag sensor rear LH.
(e) Using SST, connect C16–2 (VUCR) and C16–1 (ESCR) of connector "C".
SST 09843–18040
(f) Measure the resistance according to the value(s) in the table below.
Standard:

Tester connection	Condition	Specified condition
A20–20 (VUCD) – A20–22 (ESCD)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

4 CHECK FLOOR WIRE(SHORT)



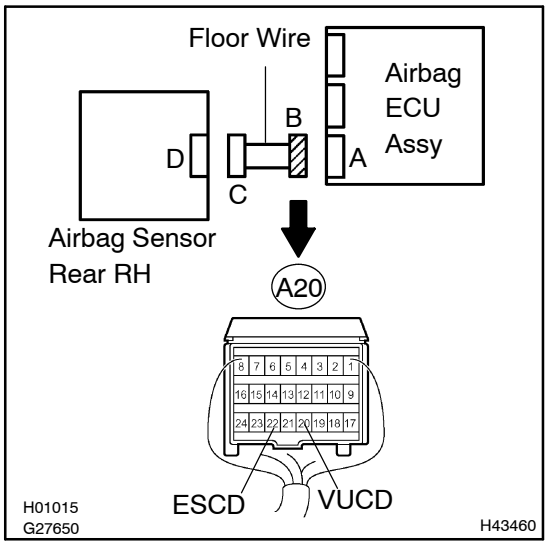
(a) LHD:

(1) Disconnect the SST from connector ”C”.

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

Standard:

Tester connection	Condition	Specified condition
A20–20 (VUCD) – A20–22 (ESCD)	Always	1 MΩ or Higher



(b) RHD:

(1) Disconnect the SST from connector ”C”.

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

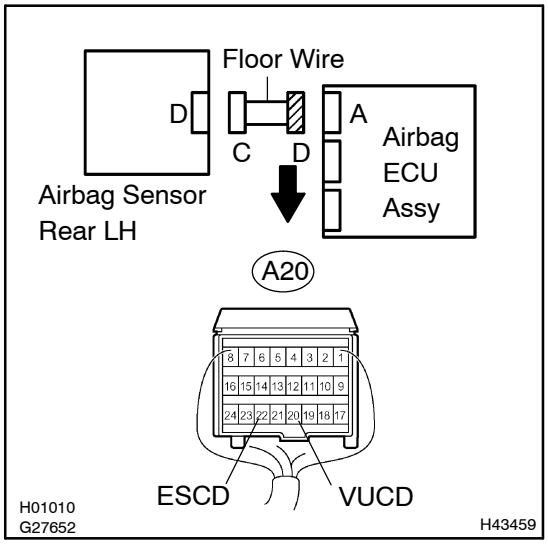
Standard:

Tester connection	Condition	Specified condition
A20–20 (VUCD) – A20–22 (ESCD)	Always	1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

5	CHECK FLOOR WIRE(TO B+)



(a) LHD:

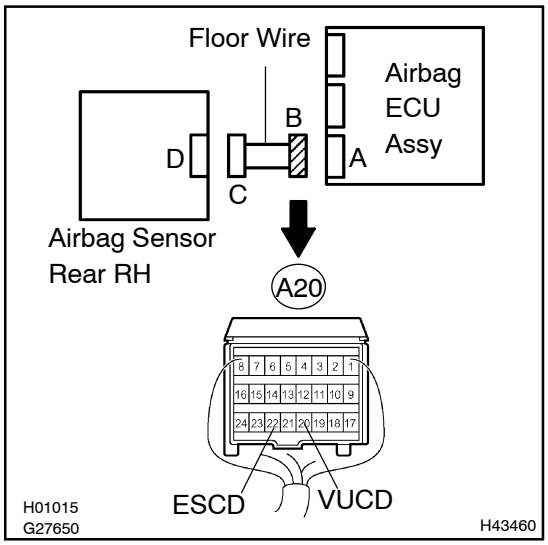
(1) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.

(2) Turn the power switch on (IG).

(3) Measure the voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A20–20 (VUCD) – Body ground	Power switch is on (IG)	Below 1 V
A20–22 (ESCD) – Body ground	Power switch is on (IG)	Below 1 V



(b) RHD:

(1) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.

(2) Turn the power switch on (IG).

(3) Measure the voltage according to the value(s) in the table below.

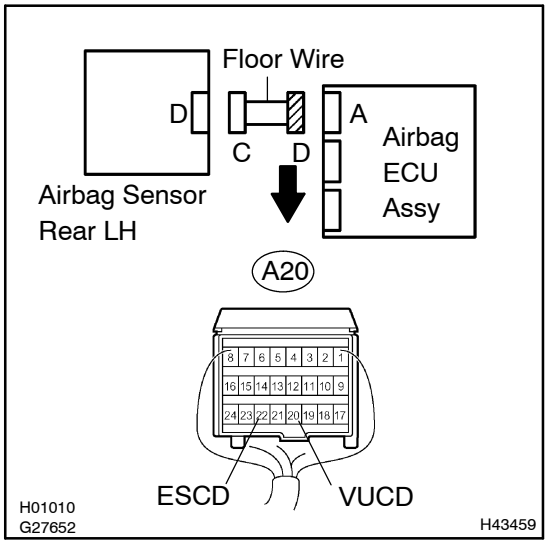
Standard:

Tester connection	Condition	Specified condition
A20–20 (VUCD) – Body ground	Power switch is on (IG)	Below 1 V
A20–22 (ESCD) – Body ground	Power switch is on (IG)	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

6 CHECK FLOOR WIRE(TO GROUND)



(a) LHD:

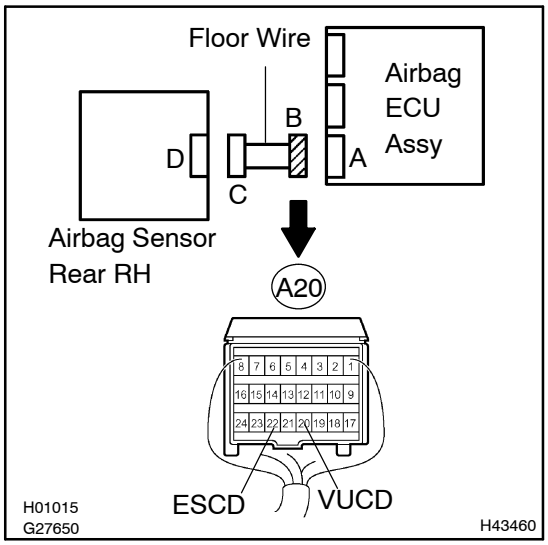
(1) Turn the power switch off.

(2) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.

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

Standard:

Tester connection	Condition	Specified condition
A20–20 (VUCD) – Body ground	Always	1 MΩ or Higher
A20–22 (ESCD) – Body ground	Always	1 MΩ or Higher



(b) RHD:

(1) Turn the power switch off.

(2) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.

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

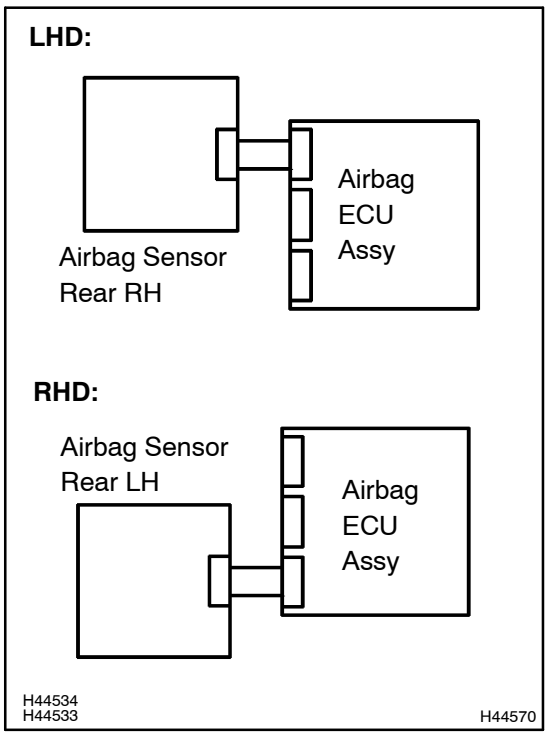
Standard:

Tester connection	Condition	Specified condition
A20–20 (VUCD) – Body ground	Always	1 MΩ or Higher
A20–22 (ESCD) – Body ground	Always	1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

7	CHECK DTC



(a) Connect the connectors to the airbag ECU assy.
(b) Interchange the airbag sensor rear LH with RH and connect the connectors to them.
(c) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the power switch on (IG), and wait for at least 60 seconds.
(e) Clear the DTCs stored in memory (see page 05–1170).
(f) Turn the power switch off.
(g) Turn the power switch on (IG), and wait for at least 60 seconds.
(h) Check the DTCs (see page 05–1170).

Result:

DTC B1630 is output.	A
DTC B1635 is output (LHD).	B
DTC B1635 is output (RHD).	C
DTC B1630 or B1635 are not output.	D

A → **REPLACE AIR BAG ECU ASSY (SEE PAGE 60–54)**

B → **REPLACE AIR BAG SENSOR REAR LH (SEE PAGE 60–60)**

C → **REPLACE AIR BAG SENSOR REAR RH (SEE PAGE 60–60)**

D

USE SIMULATION METHOD TO CHECK (SEE PAGE 60–29)