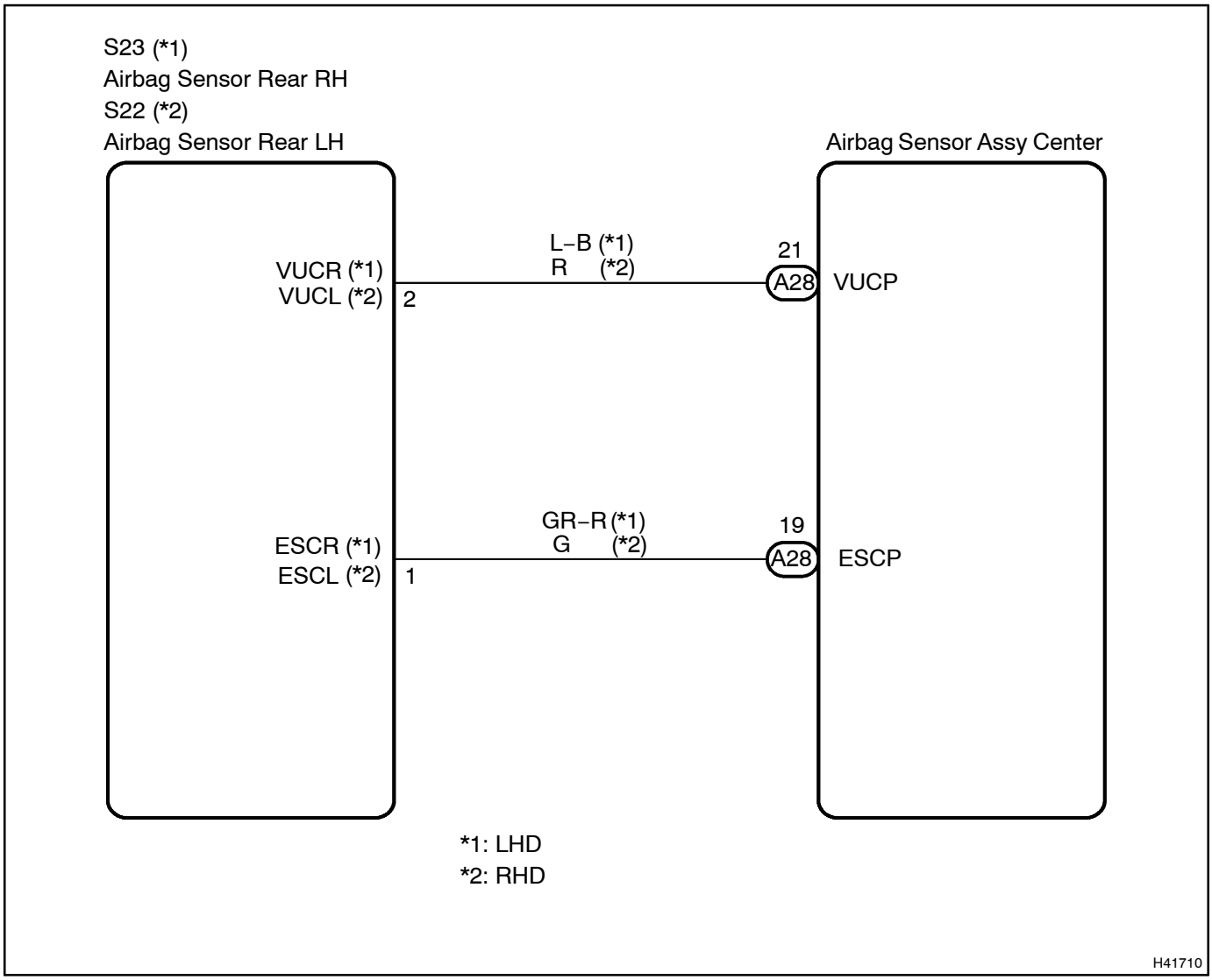
DTC	B1635/24	CURTAIN SHIELD AIRBAG SENSOR (P SEAT SIDE) MALFUNCTION

CIRCUIT DESCRIPTION

The curtain shield airbag sensor (P 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 B1635/24 is recorded when a malfunction is detected in the curtain shield airbag sensor (P seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1635/24	• 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 curtain shield airbag sensor (P seat side) circuit for 2 seconds. • Curtain shield airbag sensor (P seat side) malfunction • Airbag sensor assy center malfunction	• Airbag sensor rear RH (LHD) • Airbag sensor rear LH (RHD) • Airbag sensor assy center • Floor wire No.2

WIRING DIAGRAM



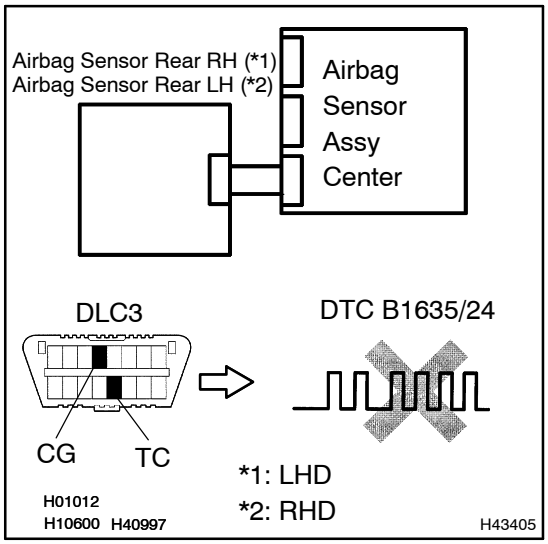
INSPECTION PROCEDURE

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 B1635/24 is not output.

HINT:
Codes other than code B1635/24 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)

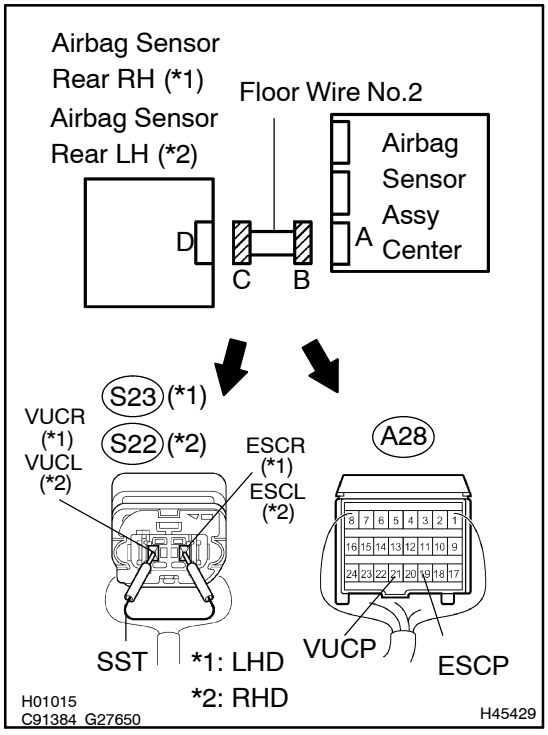
2 CHECK CONNECTION OF CONNECTORS

(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 airbag sensor rear RH.
(d) RHD:
Check that the connectors are properly connected to the airbag sensor assy center and the airbag sensor rear LH.
OK:
The connectors are connected.

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

OK

3 CHECK FLOOR WIRE NO.2 (OPEN)



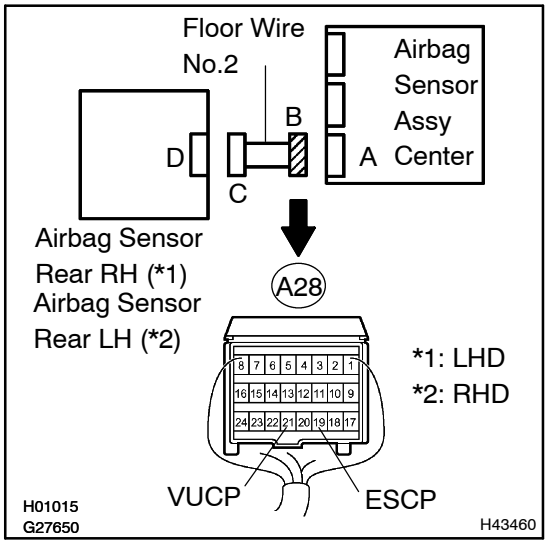
(a) LHD:
Disconnect the connectors from the airbag sensor assy center and the airbag sensor rear RH.
(b) RHD:
Disconnect the connectors from the airbag sensor assy center and the airbag sensor rear LH.
(c) LHD:
Using SST, connect S23–2 (VUCR) and S23–1 (ESCR) of connector ”C”.
(d) RHD:
Using SST, connect S22–2 (VUCL) and S22–1 (ESCL) 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
A28–21 (VUCP) – A28–19 (ESCP)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

4 CHECK FLOOR WIRE NO.2 (SHORT)



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

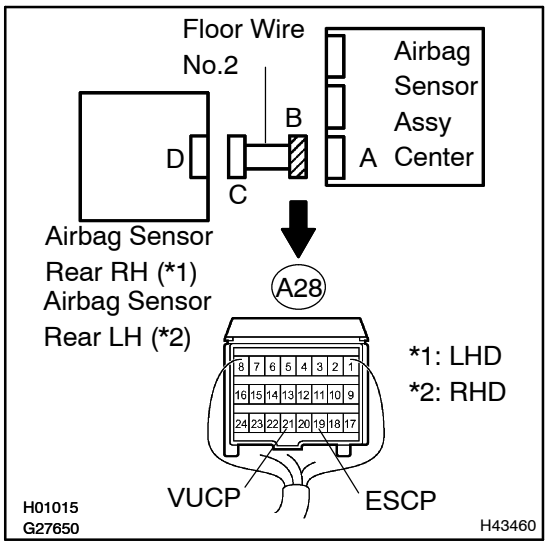
Standard:

Tester connection	Condition	Specified condition
A28–21 (VUCP) – A28–19 (ESCP)	Always	1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

5 CHECK FLOOR WIRE NO.2 (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.

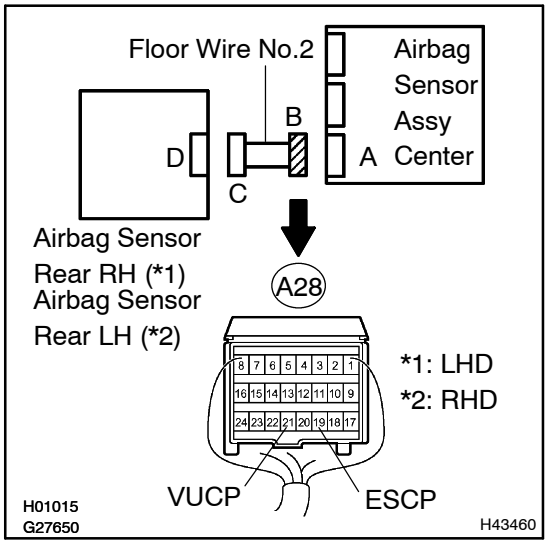
Standard:

Tester connection	Condition	Specified condition
A28–21 (VUCP) – Body ground	Ignition switch ON	Below 1 V
A28–19 (ESCP) – Body ground	Ignition switch ON	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

6 CHECK FLOOR WIRE NO.2 (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.

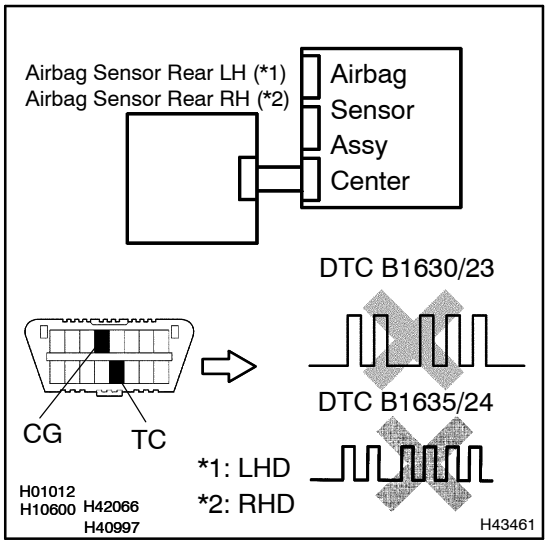
Standard:

Tester connection	Condition	Specified condition
A28–21 (VUCP) – Body ground	Always	1 MΩ or Higher
A28–19 (ESCP) – Body ground	Always	1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

7 CHECK CURTAIN SHIELD AIRBAG SENSOR (P SEAT SIDE)



(a) Connect the connectors to the airbag sensor assy center.
(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 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).

Result:

A	DTC B1635/24 is output.
B	DTC B1630/23 is output (LHD).
C	DTC B1630/23 is output (RHD).
D	DTC B1630/23 and B1635/24 are not output.

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

B → **REPLACE AIR BAG SENSOR REAR RH (LHD) (SEE PUB. NO. RM915E, PAGE 60–63)**

C → **REPLACE AIR BAG SENSOR REAR LH (RHD) (SEE PUB. NO. RM915E, PAGE 60–63)**

D

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