DTC	B1831	OPEN IN CURTAIN SHIELD AIRBAG (D SEAT SIDE) SQUIB CIRCUIT

CIRCUIT DESCRIPTION

The curtain shield airbag (D seat side) squib circuit consists of the airbag ECU assy and the curtain shield airbag assy LH (LHD) or curtain shield airbag assy RH (RHD).
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1831 is recorded when an open circuit is detected in the curtain shield airbag (D seat side) squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1831	• When the airbag ECU assy receives an open signal in the curtain shield airbag (D seat side) squib circuit for 2 seconds. • Curtain shield airbag (D seat side) squib malfunction • Airbag ECU assy malfunction	• Floor wire • Curtain shield airbag assy LH (LHD) (Curtain shield airbag (D seat side) squib) • Curtain shield airbag assy RH (RHD) (Curtain shield airbag (D seat side) squib) • Airbag ECU assy

WIRING DIAGRAM

See page 05–1367.

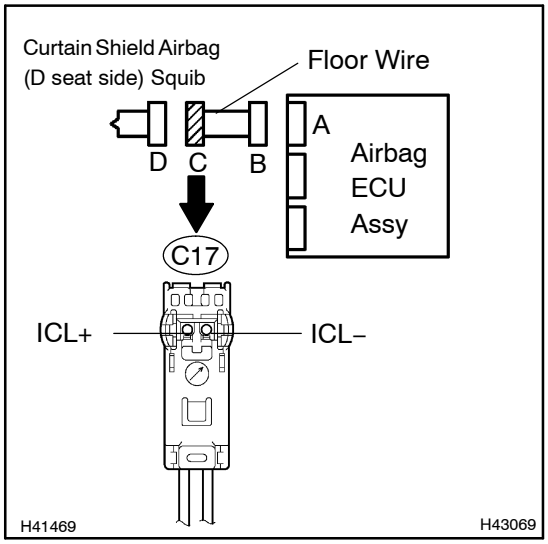
INSPECTION PROCEDURE

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.

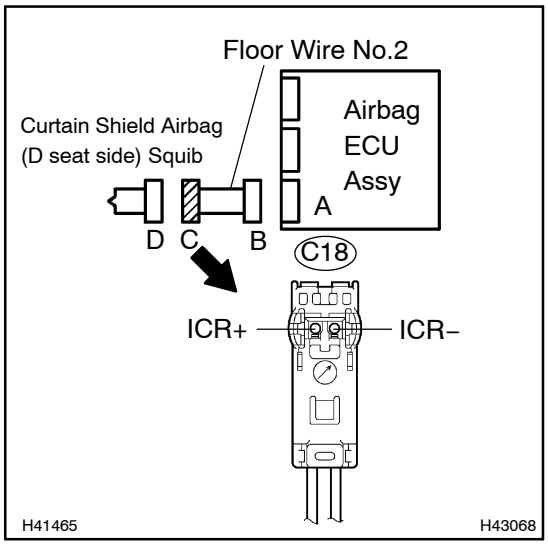
1	CHECK FLOOR WIRE(CURTAIN SHIELD AIRBAG (D SEAT SIDE) SQUIB CIRCUIT)



(a) LHD:
(1) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
C17–1 (ICL+) – C17–2 (ICL–)	Always	Below 1 Ω



(b) RHD:
(1) Measure the resistance according to the value(s) in the table below.

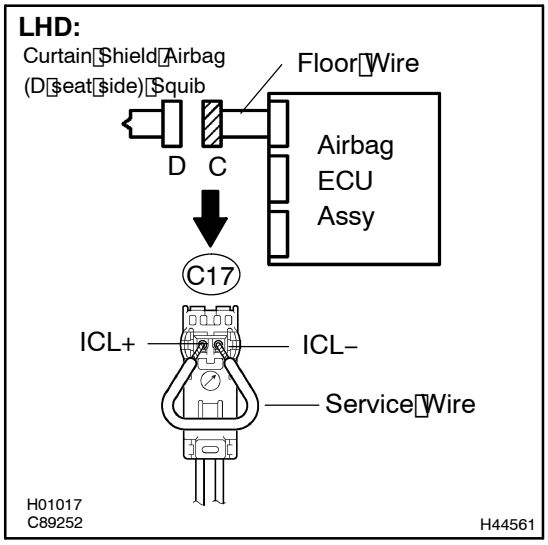
Standard:

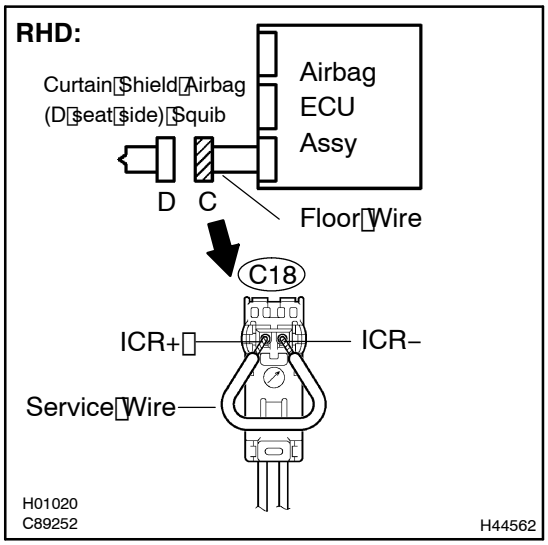
Tester connection	Condition	Specified condition
C18–1 (ICR+) – C18–2 (ICR–)	Always	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

2 CHECK AIR BAG ECU ASSY





(a) Connect the connectors to the airbag ECU assy.

(b) LHD:
Using a service wire, connect C17–1 (ICL+) and C17–2 (ICL–) of connector "C".

(c) RHD:
Using a service wire, connect C18–1 (ICR+) and C18–2 (ICR–) of connector "C".

NOTICE:

- **Twist the end of the service wire in order to insert it into the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

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

(e) Turn the power switch on (IG), and wait for at least 60 seconds.

(f) Clear the DTCs stored in memory (see page 05–1170).

(g) Turn the power switch off.

(h) Turn the power switch on (IG), and wait for at least 60 seconds.

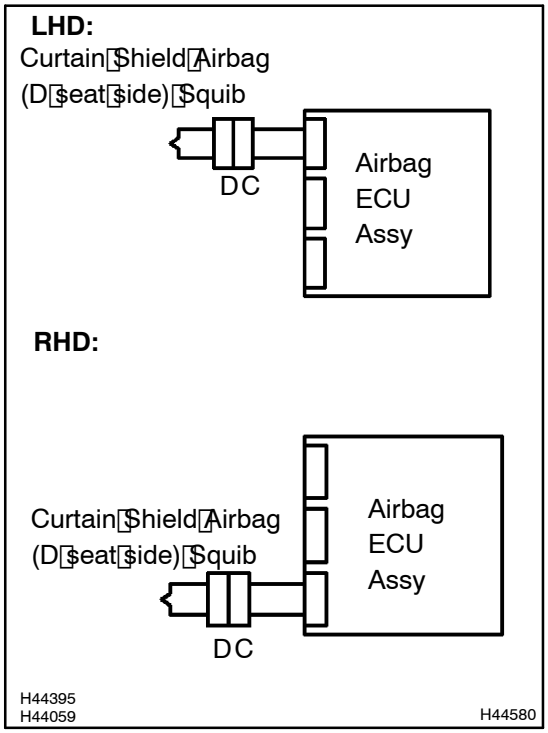
(i) Check the DTCs (see page 05–1170).
OK:
DTC B1831 is not output.

HINT:
Codes other than code B1831 may be output at this time, but they are not related to this check.

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

OK

3	CHECK DTC(CURTAIN SHIELD AIRBAG (D SEAT SIDE) SQUIB)



(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 service wire from connector "C".
(d) LHD:
Connect the connector to the curtain shield airbag assy LH.
(e) RHD:
Connect the connector to the curtain shield airbag assy RH.
(f) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(g) Turn the power switch on (IG), and wait for at least 60 seconds.
(h) Clear the DTCs stored in memory (see page 05–1170).
(i) Turn the power switch off.
(j) Turn the power switch on (IG), and wait for at least 60 seconds.
(k) Check the DTCs (see page 05–1170).

Result:

DTC B1831 is not output.	A
DTC B1831 is output (LHD).	B
DTC B1831 is output (RHD).	C

HINT:
Codes other than code B1831 may be output at this time, but they are not related to this check.

B	**REPLACE CURTAIN SHIELD AIR BAG ASSY LH (SEE PAGE 60–41)**
C	**REPLACE CURTAIN SHIELD AIR BAG ASSY RH (SEE PAGE 60–41)**

A

USE SIMULATION METHOD TO CHECK (SEE PAGE 05–1155)

HINT:
- Perform the simulation method by selecting the check mode with the intelligent tester II (see page 05–1171).
- After selecting the check mode, perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page 05–1171).