DTC	B1835/58	Short in Front Passenger Side Curtain Shield Squib Circuit

DTC	B1836/58	Open in Front Passenger Side Curtain Shield Squib Circuit

DTC	B1837/58	Short to GND in Front Passenger Side Curtain Shield Squib Circuit

DTC	B1838/58	Short to B+ in Front Passenger Side Curtain Shield Squib Circuit

DESCRIPTION

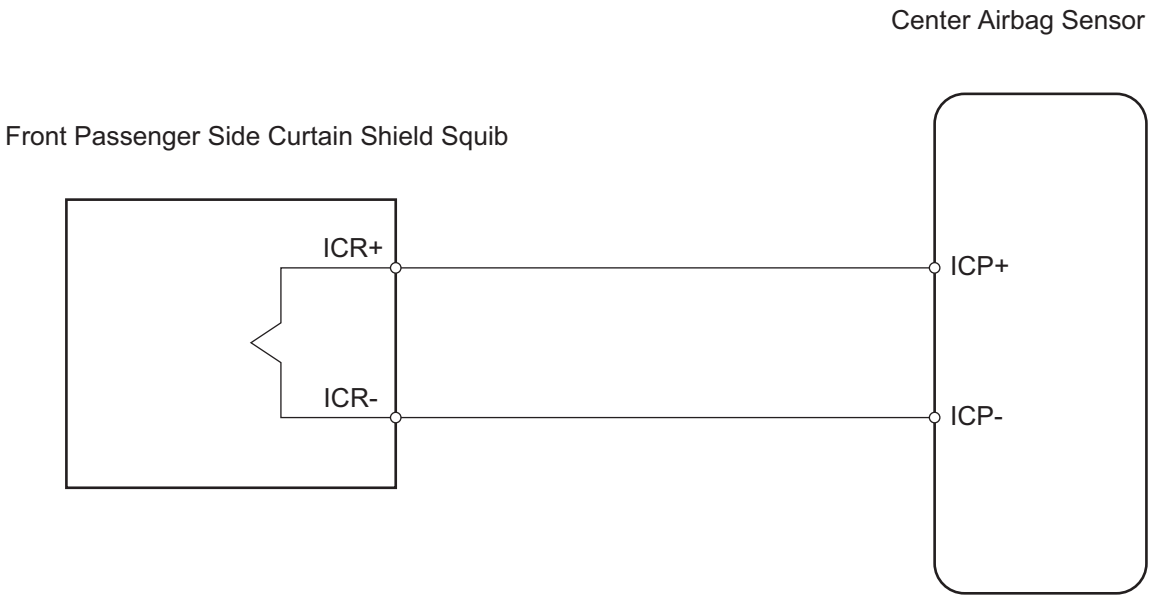
The front passenger side curtain shield squib circuit consists of the center airbag sensor and the curtain shield airbag RH.

The circuit instructs the SRS to deploy when the deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the front passenger side curtain shield squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1835/58	Center airbag sensor receives a line short circuit signal 5 times in the front passenger side curtain shield squib circuit during primary check.	• No. 2 floor wire • Curtain shield airbag RH (Front passenger side curtain shield squib) • Center airbag sensor
B1836/58	Center airbag sensor receives an open signal in the front passenger side curtain shield squib circuit for 2 seconds.	• No. 2 floor wire • Curtain shield airbag RH (Front passenger side curtain shield squib) • Center airbag sensor
B1837/58	Center airbag sensor receives a short to ground signal in the front passenger side curtain shield squib circuit for 0.5 seconds.	• No. 2 floor wire • Curtain shield airbag RH (Front passenger side curtain shield squib) • Center airbag sensor
B1838/58	Center airbag sensor receives a short to B+ signal in the front passenger side curtain shield squib circuit for 0.5 seconds.	• No. 2 floor wire • Curtain shield airbag RH (Front passenger side curtain shield squib) • Center airbag sensor

WIRING DIAGRAM



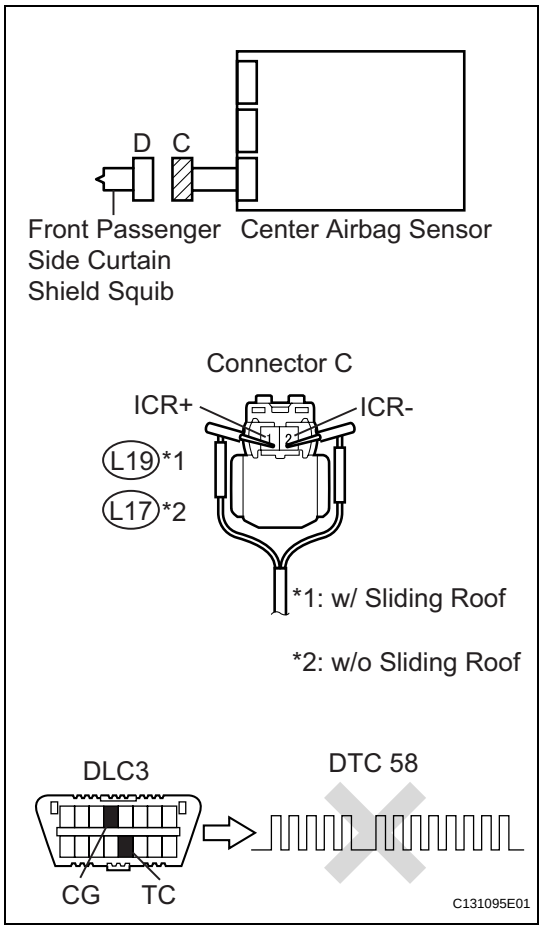
RS

INSPECTION PROCEDURE

HINT:

- Perform the simulation method by selecting the "CHECK MODE" (signal check) with the intelligent tester (see page RS-52).
- After selecting the "CHECK MODE" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page RS-52).

1	CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH (FRONT PASSENGER SIDE CURTAIN SHIELD SQUIB)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect the connectors from the curtain shield airbag RH.
(d) Connect the white wire side of SST to connector C.

CAUTION:
Never connect a tester to the curtain shield airbag RH (front passenger side curtain shield squib) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:
- **Do not forcibly insert SST into the terminals of the connector when connecting.**
- **Insert SST straight into the terminals of the connector.**

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(e) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(f) Turn the ignition switch ON, and wait for at least 60 seconds.
(g) Clear the DTCs (see page RS-49).
(h) Turn the ignition switch OFF.
(i) Turn the ignition switch ON, and wait for at least 60 seconds.
(j) Check the DTCs (see page RS-49).

OK:
DTC B1835, B1836, B1837, B1838 or 58 is not output.

HINT:
DTCs other than DTC B1835, B1836, B1837, B1838 or 58 may be output at this time, but they are not related to this check.

OK → **REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH**

NG

2	CHECK CONNECTOR

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect SST from connector C.
(d) Check that the floor wire connector (on the curtain shield airbag RH side) is not damaged.

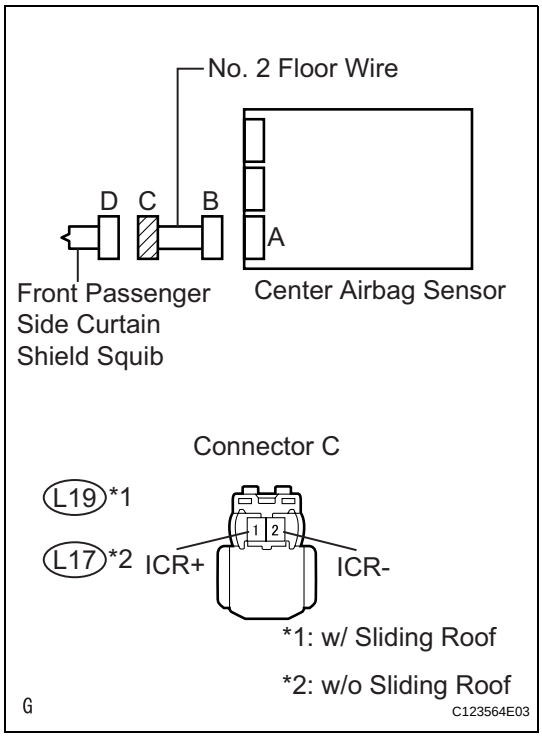
OK:
Lock button is not disengaged, and claw of lock is not deformed or damaged.

RS

NG → REPAIR OR REPLACE FLOOR WIRE

OK

3	CHECK FLOOR WIRE NO.2 (FRONT PASSENGER SIDE CURTAIN SHIELD SQUIB CIRCUIT)



(a) Disconnect the connectors from the center airbag sensor.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Measure the voltage of the wire harness side connector.

Standard voltage:

w/ Sliding Roof

Tester Connection	Specified Condition
L19-1 (ICR+) - Body ground	Below 1 V
L19-2 (ICR-) - Body ground	Below 1 V

w/o Sliding Roof

Tester Connection	Specified Condition
L17-1 (ICR+) - Body ground	Below 1 V
L17-2 (ICR-) - Body ground	Below 1 V

(e) Turn the ignition switch OFF.
(f) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(g) Measure the resistance of the wire harness side connector.

Standard resistance:

w/ Sliding Roof

Tester Connection	Specified Condition
L19-1 (ICR+) - L19-2 (ICR-)	Below 1 Ω
L19-1 (ICR+) - Body ground	1 MΩ or higher
L19-2 (ICR-) - Body ground	1 MΩ or higher

w/o Sliding Roof

Tester Connection	Specified Condition
L17-1 (ICR+) - L17-2 (ICR-)	Below 1 Ω
L17-1 (ICR+) - Body ground	1 MΩ or higher
L17-2 (ICR-) - Body ground	1 MΩ or higher

(h) Release the activation prevention mechanism built into connector B (see page RS-37).
(i) Measure the resistance of the wire harness side connector.

Standard resistance:

w/ Sliding Roof

Tester Connection	Specified Condition
L19-1 (ICR+) - L19-2 (ICR-)	1 MΩ or higher

w/o Sliding Roof

RS

Tester Connection	Specified Condition
L17-1 (ICR+) - L17-2 (ICR-)	1 MΩ or higher

NG → REPAIR OR REPLACE FLOOR WIRE

OK

REPLACE CENTER AIRBAG SENSOR ASSEMBLY