

DTC	B1830/57	Short in Driver Side Curtain Shield Squib Circuit
DTC	B1831/57	Open in Driver Side Curtain Shield Squib Circuit
DTC	B1832/57	Short to GND in Driver Side Curtain Shield Squib Circuit
DTC	B1833/57	Short to B+ in Driver Side Curtain Shield Squib Circuit

DESCRIPTION

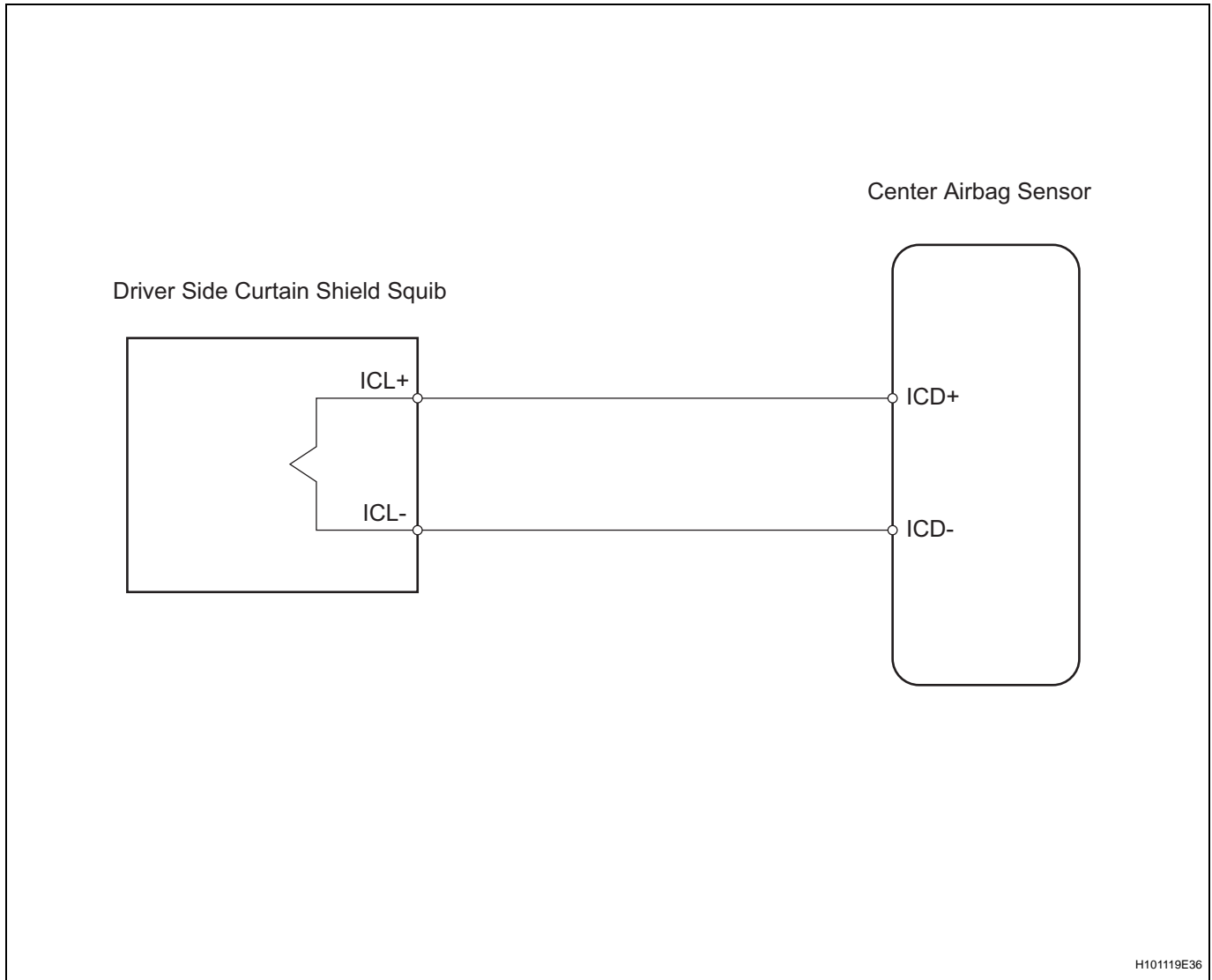
The driver side curtain shield squib circuit consists of the center airbag sensor and the curtain shield airbag LH.

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

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

DTC No.	DTC Detection Condition	Trouble Area
B1830/57	Center airbag sensor receives a line short signal 5 times in the driver side curtain shield squib circuit during primary check.	<ul style="list-style-type: none"> • Floor wire • Curtain shield airbag LH (Driver side curtain shield squib) • Center airbag sensor
B1831/57	Center airbag sensor receives an open signal in the driver side curtain shield squib circuit for 2 seconds.	<ul style="list-style-type: none"> • Floor wire • Curtain shield airbag LH (Driver side curtain shield squib) • Center airbag sensor
B1832/57	Center airbag sensor receives a short to ground signal in the driver side curtain shield squib circuit for 0.5 seconds.	<ul style="list-style-type: none"> • Floor wire • Curtain shield airbag LH (Driver side curtain shield squib) • Center airbag sensor
B1833/57	Center airbag sensor receives a short to B+ signal in the driver side curtain shield squib circuit for 0.5 seconds.	<ul style="list-style-type: none"> • Floor wire • Curtain shield airbag LH (Driver side curtain shield squib) • Center airbag sensor

WIRING DIAGRAM

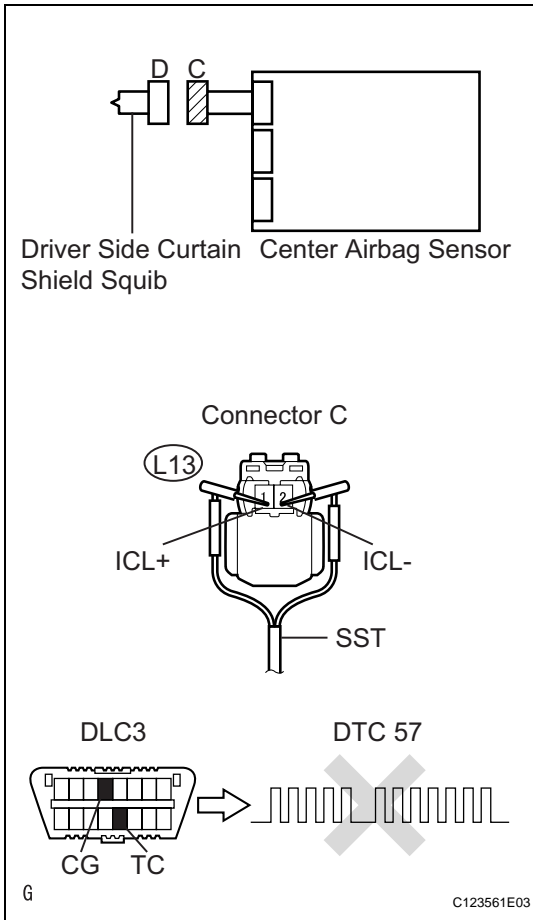


INSPECTION PROCEDURE

HINT:

- Perform the simulation method by selecting the "CHECK MODE" (signal check) with the intelligent tester (see page [RS-49](#)).
- 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-49](#)).

1 CHECK CURTAIN SHIELD AIRBAG ASSEMBLY LH (DRIVER 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 connector from the curtain shield airbag LH.
- (d) Connect the white wire side of SST (resistance 2.1 Ω) to connector C.

CAUTION:

Never connect a tester to the curtain shield airbag LH (driver 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.

SST 09843-18060

- (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 B1830, B1831, B1832, B1833 or 57 is not output.

HINT:

DTCs other than DTC B1830, B1831, B1832, B1833 or 57 may be output at this time, but they are not related to this check.

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

RS

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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 LH side) is not damaged.

OK:

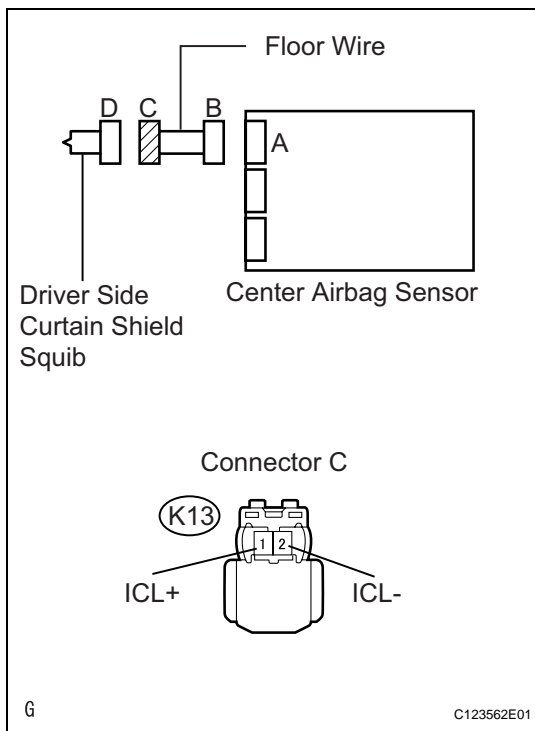
Lock button is not disengaged, and claw of lock is not deformed or damaged.

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REPAIR OR REPLACE FLOOR WIRE

OK

3 CHECK FLOOR WIRE (DRIVER SIDE CURTAIN SHIELD SQUIB CIRCUIT)



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

Tester Connection	Specified Condition
K13-1 (ICL+) - Body ground	Below 1 V
K13-2 (ICL-) - Body ground	Below 1 V

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

Tester Connection	Specified Condition
K13-1 (ICL+) - K13-2 (ICL-)	Below 1 Ω
K13-1 (ICL+) - Body ground	1 M Ω or higher
K13-2 (ICL-) - Body ground	1 M Ω or higher

- Release the activation prevention mechanism built into connector B (see page [RS-37](#)).
- Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
K13-1 (ICL+) - K13-2 (ICL-)	1 M Ω or higher

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REPAIR OR REPLACE FLOOR WIRE

OK

REPLACE CENTER AIRBAG SENSOR ASSEMBLY