

<b>DTC</b>	<b>B1800/51</b>	<b>Short in Driver Side Squib Circuit</b>
<b>DTC</b>	<b>B1801/51</b>	<b>Open in Driver Side Squib Circuit</b>
<b>DTC</b>	<b>B1802/51</b>	<b>Short to GND in Driver Side Squib Circuit</b>
<b>DTC</b>	<b>B1803/51</b>	<b>Short to B+ in Driver Side Squib Circuit</b>

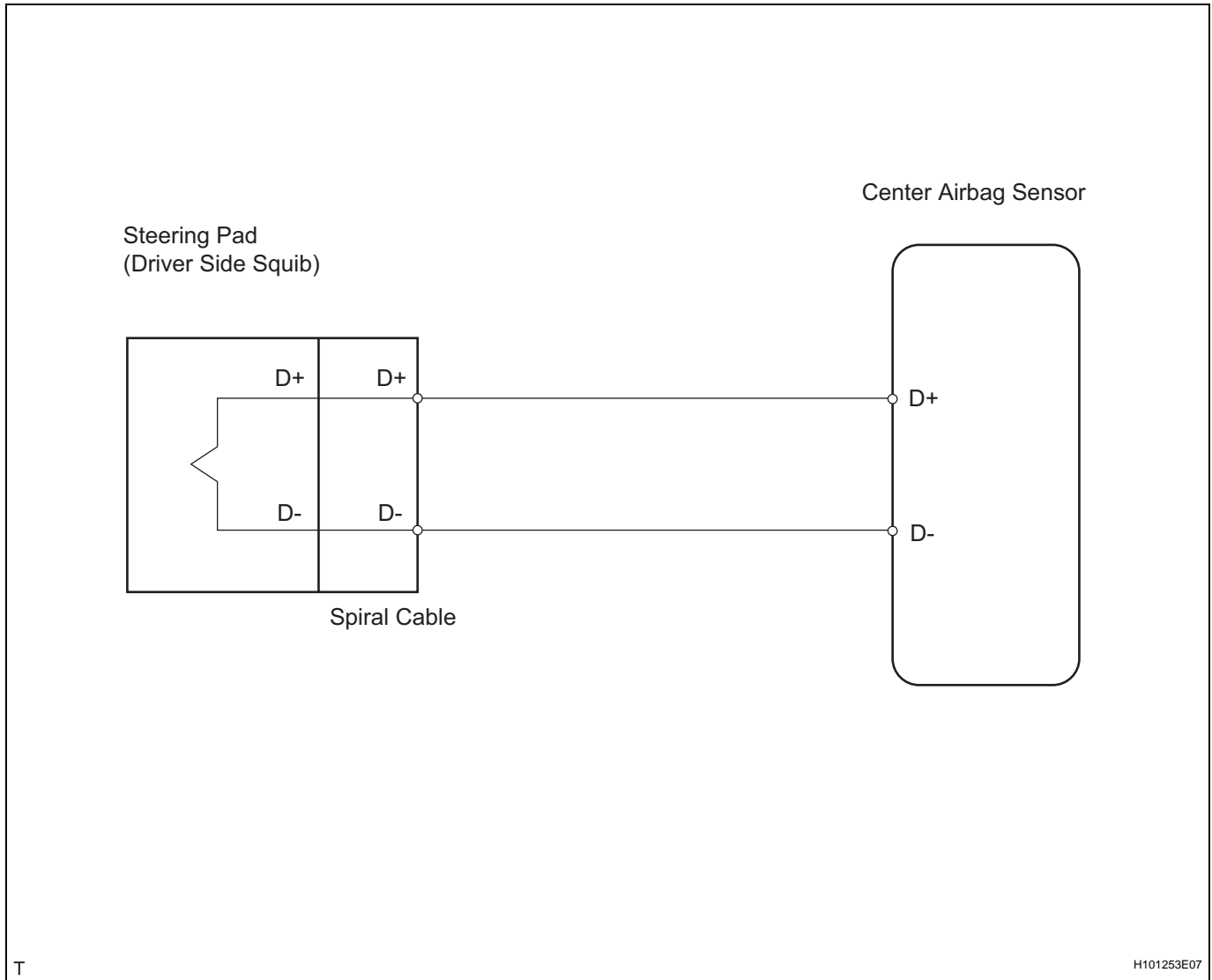
## DESCRIPTION

The driver side squib circuit consists of the center airbag sensor, the spiral cable and the steering pad. 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 squib circuit.

<b>DTC No.</b>	<b>DTC Detection Condition</b>	<b>Trouble Area</b>
B1800/51	Center airbag sensor receives a line short signal 5 times in the driver side squib circuit during primary check.	<ul style="list-style-type: none"> <li>• Instrument panel wire</li> <li>• Spiral cable</li> <li>• Steering pad (Driver side squib)</li> <li>• Center airbag sensor</li> </ul>
B1801/51	Center airbag sensor receives an open signal in the driver side squib circuit for 2 seconds.	<ul style="list-style-type: none"> <li>• Instrument panel wire</li> <li>• Spiral cable</li> <li>• Steering pad (Driver side squib)</li> <li>• Center airbag sensor</li> </ul>
B1802/51	Center airbag sensor receives a short to ground signal in the driver side squib circuit for 0.5 seconds.	<ul style="list-style-type: none"> <li>• Instrument panel wire</li> <li>• Spiral cable</li> <li>• Steering pad (Driver side squib)</li> <li>• Center airbag sensor</li> </ul>
B1803/51	Center airbag sensor receives a short to B+ signal in the driver side squib circuit for 0.5 seconds.	<ul style="list-style-type: none"> <li>• Instrument panel wire</li> <li>• Spiral cable</li> <li>• Steering pad (Driver side squib)</li> <li>• Center airbag sensor</li> </ul>

## WIRING DIAGRAM

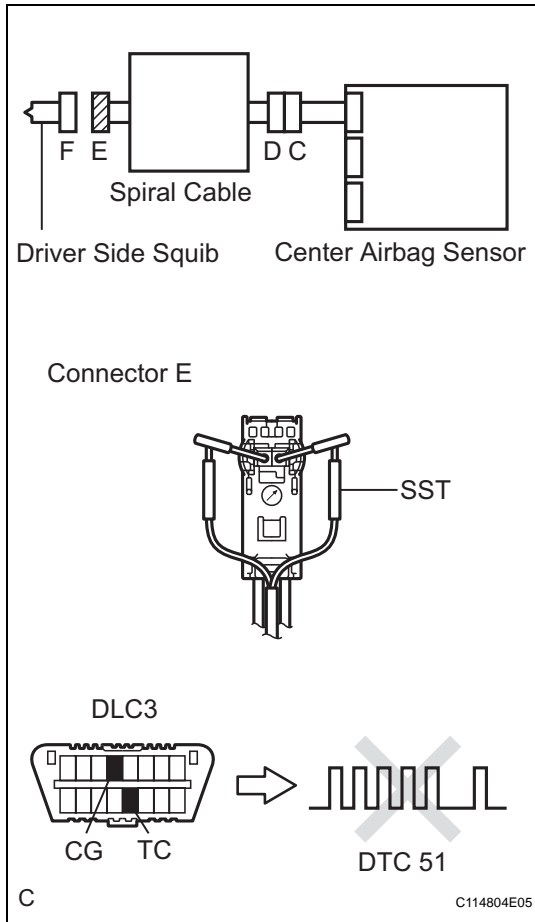


## INSPECTION PROCEDURE

## 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 STEERING PAD (DRIVER SIDE 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 steering pad.
- (d) Connect the white wire side of SST (resistance 2.1 Ω) to connector E.

**CAUTION:**

**Never connect a tester to the steering pad (driver side 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 (IG), 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 B1800, B1801, B1802, B1803 or 51 is not output.**

**HINT:**

DTCs other than DTC B1800, B1801, B1802, B1803 or 51 may be output at this time, but they are not related to this check.

**OK** → **REPLACE STEERING PAD**

**NG**

**2 CHECK CONNECTOR**

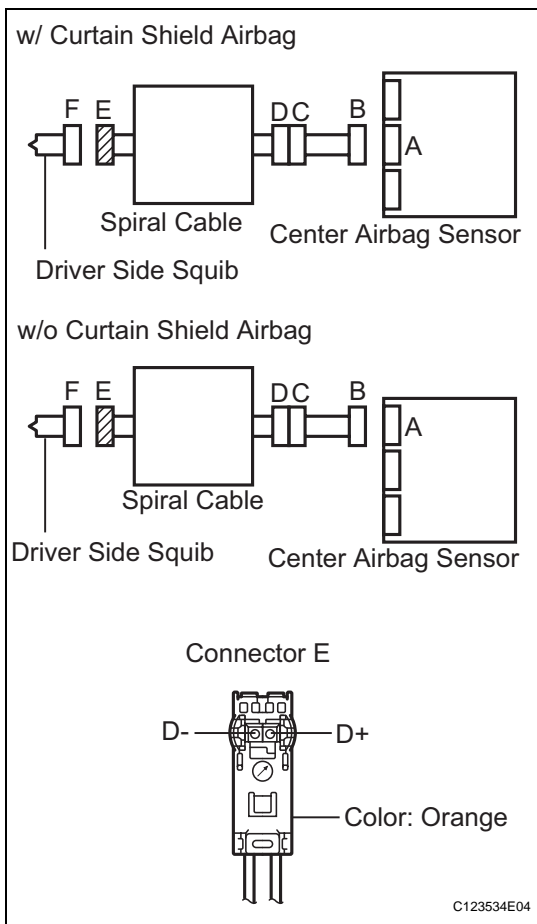
- (a) Turn the ignition switch OFF.
- (b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
- (c) Disconnect SST from the spiral cable.
- (d) Check that the spiral cable connectors (on the steering pad side) are not damaged.

**OK:**

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

**NG** → **REPLACE SPIRAL CABLE**

OK

**3 CHECK DRIVER SIDE SQUIB CIRCUIT**

- Disconnect the connectors 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
D+ - Body ground	Below 1 V
D- - 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
D+ - D-	Below 1 $\Omega$
D+ - Body ground	1 M $\Omega$ or higher
D- - Body ground	1 M $\Omega$ 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
D+ - D-	1 M $\Omega$ or higher

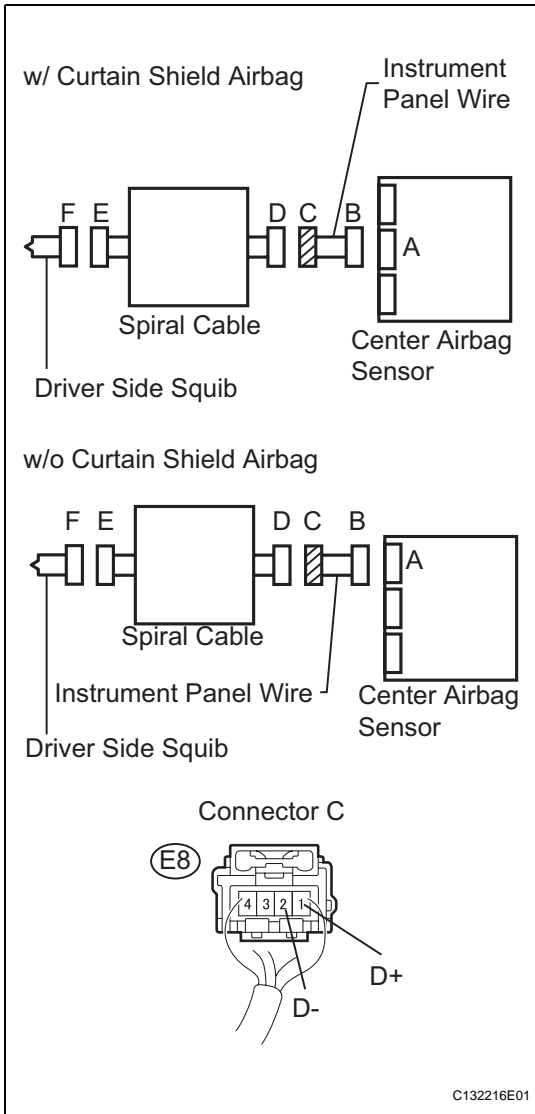
OK

**REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

NG

RS

**4 CHECK INSTRUMENT PANEL WIRE**



- (a) Restore the released activation prevention mechanism of connector B to its original position.
- (b) Disconnect the instrument panel wire connector from the spiral cable.
- (c) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
- (d) Turn the ignition switch ON.
- (e) Measure the voltage of the wire harness side connector.

**Standard voltage**

Tester Connection	Specified Condition
E8-1 (D+) - Body ground	Below 1 V
E8-2 (D-) - Body ground	Below 1 V

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

**Standard resistance**

Tester Connection	Specified Condition
E8-1 (D+) - E8-2 (D-)	Below 1 Ω
E8-1 (D+) - Body ground	1 MΩ or higher
E8-2 (D-) - Body ground	1 MΩ or higher

- (i) Release the activation prevention mechanism built into connector B (see page RS-52).
- (j) Measure the resistance of the wire harness side connector.

**Standard resistance**

Tester Connection	Specified Condition
E8-1 (D+) - E8-2 (D-)	1 MΩ or higher

**NG** REPAIR OR REPLACE INSTRUMENT PANEL WIRE

**OK**

**REPLACE SPIRAL CABLE**

**RS**