

DTC	B1815/54	Short in Front Passenger Side Squib 2nd Step Circuit
DTC	B1816/54	Open in Front Passenger Side Squib 2nd Step Circuit
DTC	B1817/54	Short to GND in Front Passenger Side Squib 2nd Step Circuit
DTC	B1818/54	Short to B+ in Front Passenger Side Squib 2nd Step Circuit

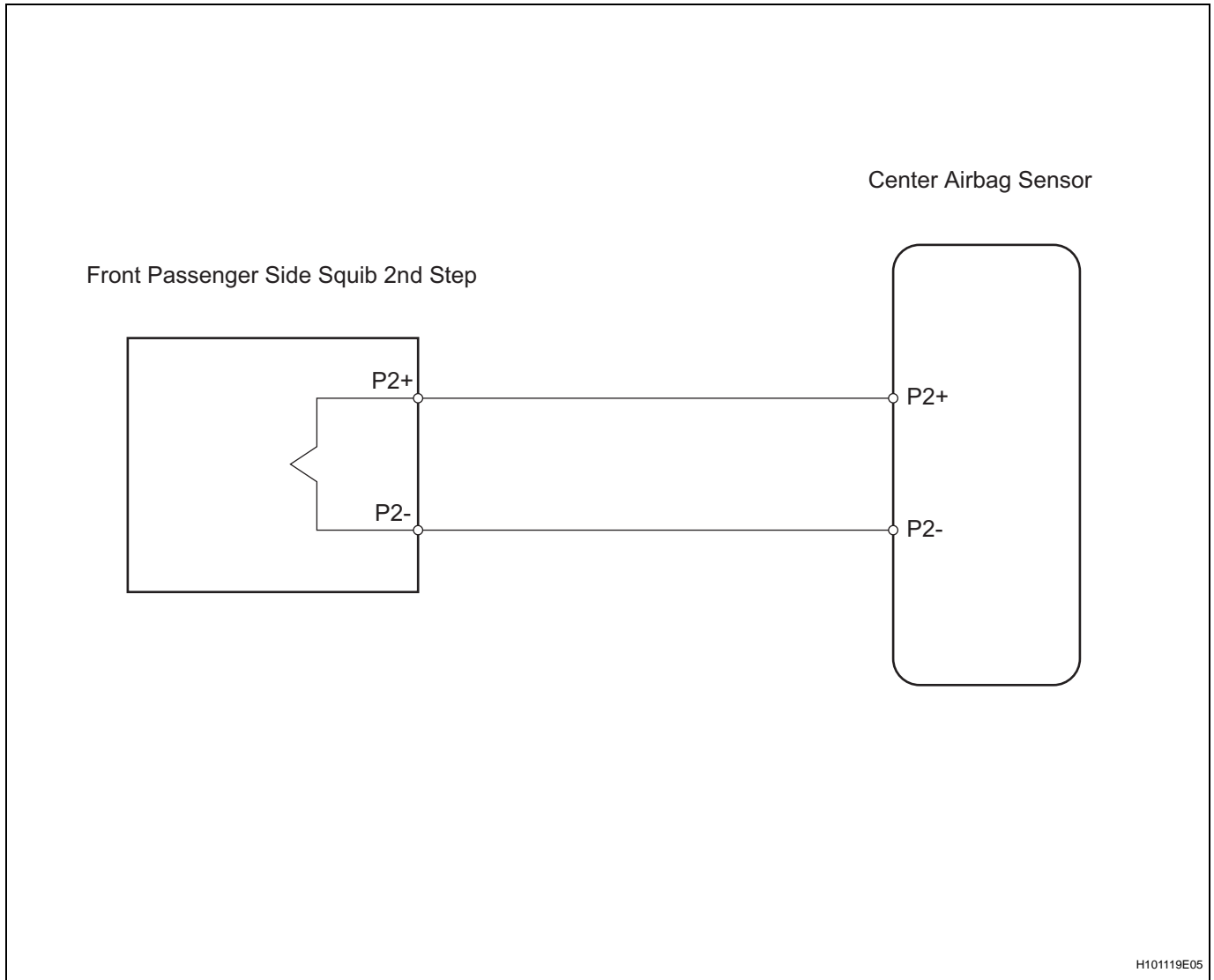
DESCRIPTION

The front passenger side squib 2nd step circuit consists of the center airbag sensor and the front passenger airbag.

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

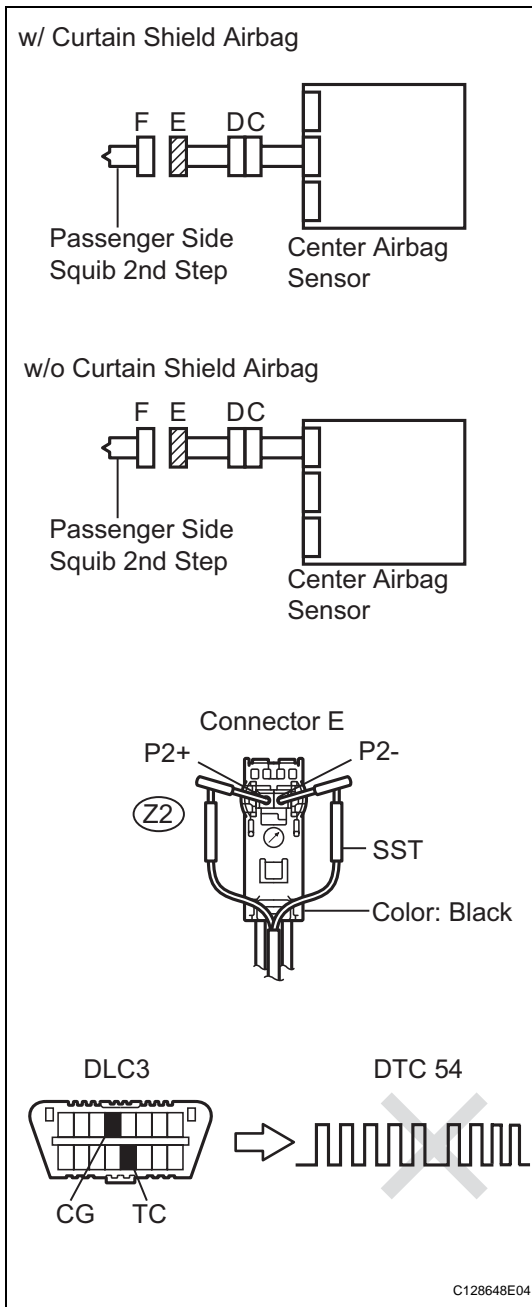
These DTCs are recorded when a malfunction is detected in the front passenger side squib 2nd step circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1815/54	Center airbag sensor receives a line short signal 5 times in the front passenger side squib 2nd step circuit during primary check.	<ul style="list-style-type: none"> • Instrument panel wire • Front passenger airbag (Front passenger side squib 2nd step) • Center airbag sensor
B1816/54	Center airbag sensor receives an open signal in the front passenger side squib 2nd step circuit for 2 seconds.	<ul style="list-style-type: none"> • Instrument panel wire • Front passenger airbag (Front passenger side squib 2nd step) • Center airbag sensor
B1817/54	Center airbag sensor receives a short to ground signal in the front passenger side squib 2nd step circuit for 0.5 seconds.	<ul style="list-style-type: none"> • Instrument panel wire • Front passenger airbag (Front passenger side squib 2nd step) • Center airbag sensor
B1818/54	Center airbag sensor receives a short to B+ signal in the front passenger side squib 2nd step circuit for 0.5 seconds.	<ul style="list-style-type: none"> • Instrument panel wire • Front passenger airbag (Front passenger side squib 2nd step) • 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-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 FRONT PASSENGER AIRBAG ASSEMBLY (FRONT PASSENGER SIDE SQUIB 2ND STEP)

- Turn the ignition switch OFF.
- Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
- Disconnect the connector from the front passenger airbag.
- Connect the white wire side of SST to the instrument panel wire connector E.

CAUTION:

Never connect a tester to the front passenger airbag (front passenger side squib 2nd step) 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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- Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
- Turn the ignition switch ON, and wait for at least 60 seconds.
- Clear the DTCs (see page RS-49).
- Turn the ignition switch OFF.
- Turn the ignition switch ON, and wait for at least 60 seconds.
- Check the DTCs (see page RS-49).

OK:

DTC B1815, B1816, B1817, B1818 or 54 is not output.

HINT:

DTCs other than DTC B1815, B1816, B1817, B1818 and 54 may be output at this time, but they are not related to this check.

OK

REPLACE FRONT PASSENGER AIRBAG ASSEMBLY

NG

2

CHECK CONNECTOR

- Turn the ignition switch OFF.
- Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
- Disconnect SST (resistance 2.1 Ω) from the instrument panel wire.
- Check that the instrument panel wire connectors (on the front passenger side airbag) are not damaged.

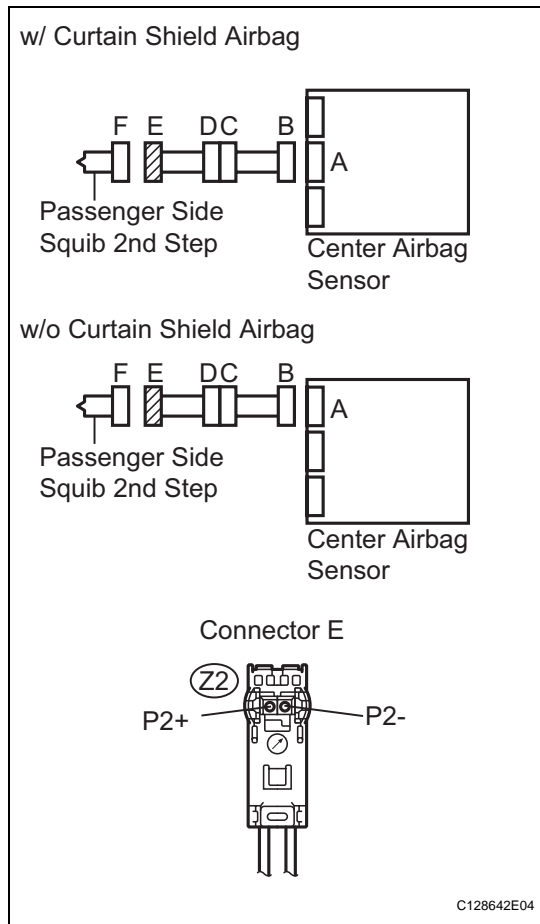
OK:

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

NG **REPLACE INSTRUMENT PANEL WIRE**

OK

3 CHECK INSTRUMENT PANEL WIRE



- (a) Disconnect the connector 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**

Tester Connection	Specified Condition
Z2-2 (P2+) - Body ground	Below 1 V
Z2-1 (P2-) - 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**

Tester Connection	Specified Condition
Z2-2 (P2+) - Z2-1 (P2-)	Below 1 Ω
Z2-2 (P2+) - Body ground	1 MΩ or higher
Z2-1 (P2-) - 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**

Tester Connection	Specified Condition
Z2-2 (P2+) - Z2-1 (P2-)	1 MΩ or higher

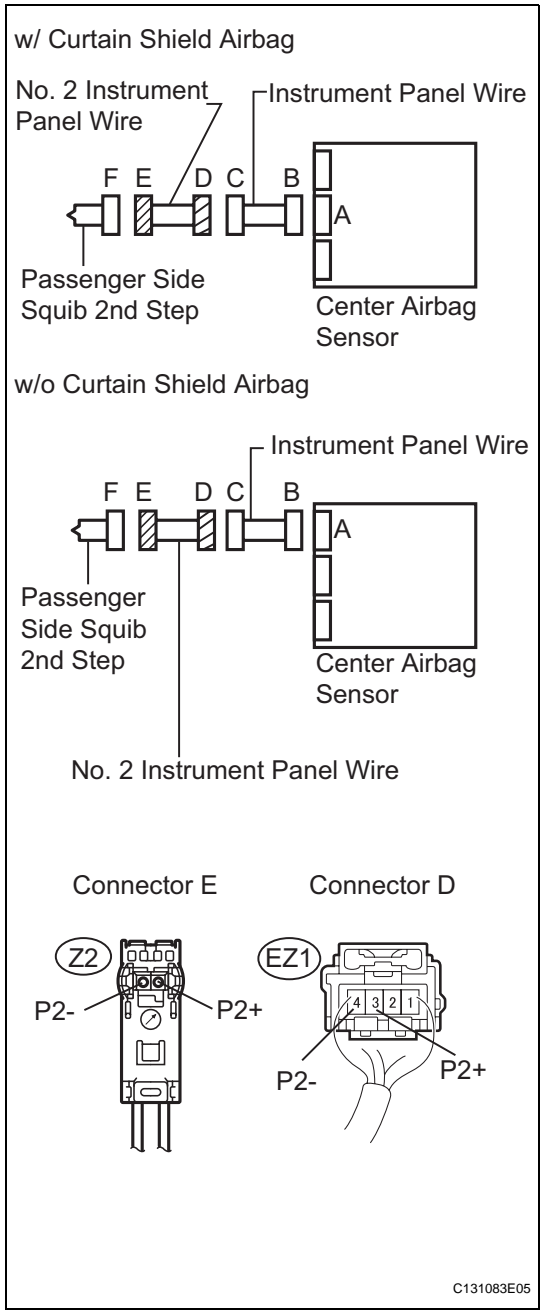
OK **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

NG

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4 CHECK NO. 2 INSTRUMENT PANEL WIRE



- (a) Disconnect the No. 2 instrument panel wire connector from the instrument panel wire.
 - (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**

Tester Connection	Specified Condition
Z2-2 (P2+) - Body ground	Below 1 V
Z2-1 (P2-) - 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**

Tester Connection	Specified Condition
Z2-2 (P2+) - EZ1-3	Below 1 Ω
Z2-1 (P2-) - EZ1-4	Below 1 Ω
Z2-2 (P2+) - Z2-1 (P2-)	Below 1 Ω
Z2-2 (P2+) - Body ground	1 MΩ or higher
Z2-1 (P2-) - Body ground	1 MΩ or higher

NG REPAIR OR REPLACE NO. 2 INSTRUMENT PANEL WIRE

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS