

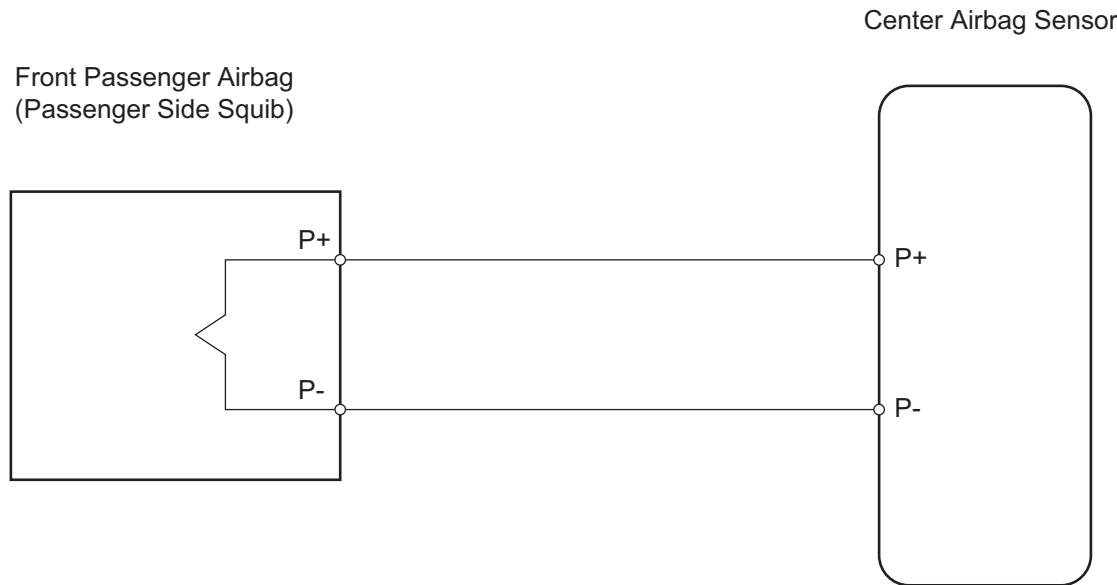
DTC	B1805/52	Short in Front Passenger Side Squib Circuit
DTC	B1806/52	Open in Front Passenger Side Squib Circuit
DTC	B1807/52	Short to GND in Front Passenger Side Squib Circuit
DTC	B1808/52	Short to B+ in Front Passenger Side Squib Circuit

DESCRIPTION

The front passenger side squib 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 circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1805/52	Center airbag sensor receives a line short signal 5 times in the front passenger side squib circuit during primary check.	<ul style="list-style-type: none"> • No. 1 Instrument panel wire • No. 2 Instrument panel wire • Front passenger airbag (Front passenger side squib) • Center airbag sensor
B1806/52	Center airbag sensor assembly receives an open circuit signal in the front passenger side squib circuit for 2 seconds.	<ul style="list-style-type: none"> • No. 1 Instrument panel wire • No. 2 Instrument panel wire • Front passenger airbag (Front passenger side squib) • Center airbag sensor
B1807/52	Center airbag sensor receives a short to ground signal in the front passenger side squib circuit for 0.5 seconds.	<ul style="list-style-type: none"> • No. 1 Instrument panel wire • No. 2 Instrument panel wire • Front passenger airbag (Front passenger side squib) • Center airbag sensor
B1808/52	Center airbag sensor receives a short to B+ signal in the front passenger side squib circuit for 0.5 seconds.	<ul style="list-style-type: none"> • No. 1 Instrument panel wire • No. 2 Instrument panel wire • Front passenger airbag (Front passenger side squib) • Center airbag sensor

WIRING DIAGRAM



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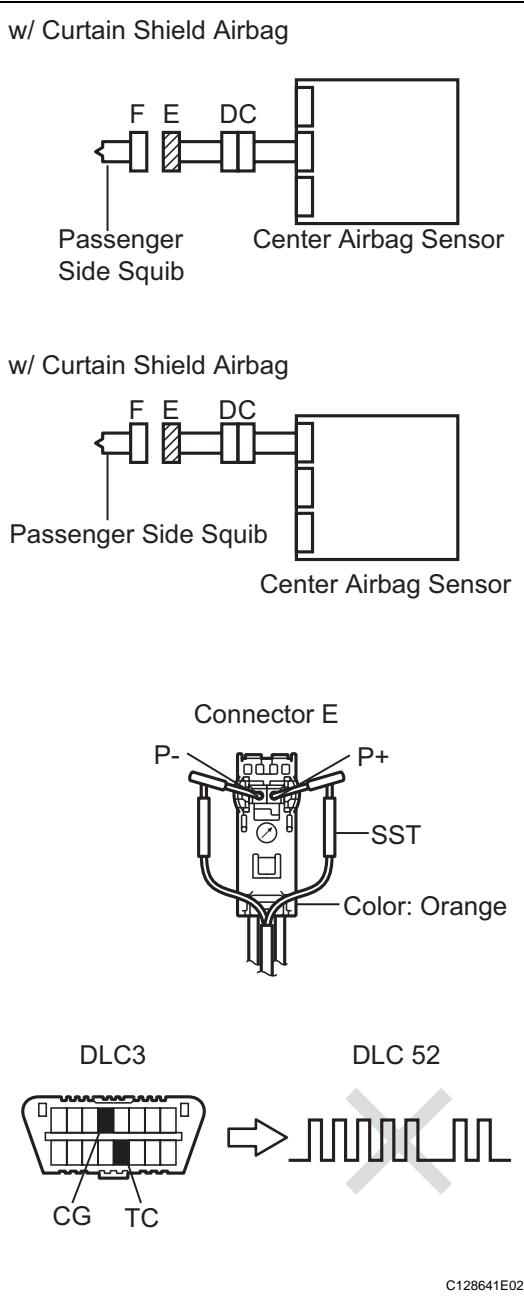
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INSPECTION PROCEDURE

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)



- Turn the ignition switch OFF.
- Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
- Disconnect the connectors from the front passenger airbag.
- Connect the white wire side of SST (resistance 2.1 Ω) to the instrument panel wire connector E.

CAUTION:

Never connect a tester to the front passenger airbag (front passenger 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

- 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 B1805, B1806, B1807, B1808 or 52 is not output.

HINT:

DTCs other than DTC B1805, B1806, B1807, B1808 or 52 may be output at this time, but they are not related to this check.

OK

REPLACE FRONT PASSENGER AIRBAG ASSEMBLY

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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 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.

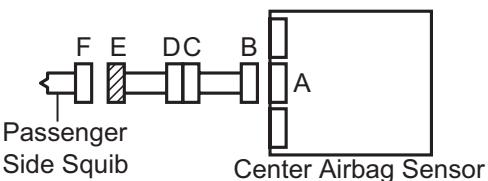
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Go to step 4

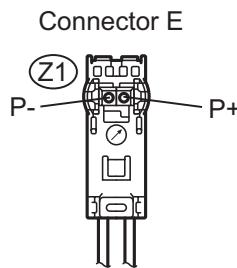
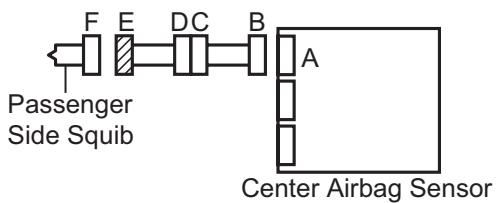
OK

3 | CHECK INSTRUMENT PANEL WIRE

w/ Curtain Shield Airbag



w/o Curtain Shield Airbag



C128642E03

- (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
Z1-1 (P+) - Body ground	Below 1 V
Z1-2 (P-) - 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
Z1-1 (P+) - Z1-2 (P-)	Below 1 Ω
Z1-1 (P+) - Body ground	1 MΩ or higher
Z1-2 (P-) - 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
Z1-1 (P+) - Z1-2 (P-)	1 MΩ or higher

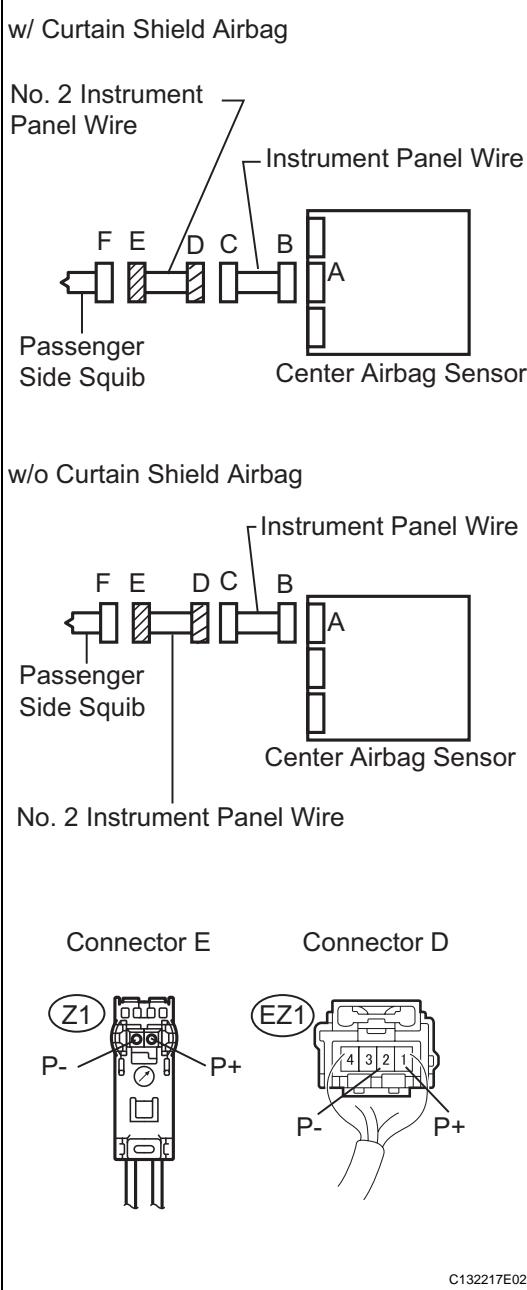
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REPLACE CENTER AIRBAG SENSOR ASSEMBLY

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4 CHECK NO. 2 INSTRUMENT PANEL WIRE



- Disconnect the No. 2 floor wire connector from the floor wire.
- 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
Z1-1 (P+) - Body ground	Below 1 V
Z1-2 (P-) - 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
Z1-2 (P-) - EZ1-2	Below 1 Ω
Z1-1 (P+) - EZ1-1	Below 1 Ω
Z1-2 (P-) - Z1-1 (P+)	1 MΩ or higher
Z1-2 (P-) - Body ground	1 MΩ or higher
Z1-1 (P+) - Body ground	1 MΩ or higher

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REPAIR OR REPLACE NO. 2 INSTRUMENT PANEL WIRE

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE