

DTC	B1825/56	Short in Front Passenger Side - Side Squib Circuit
DTC	B1826/56	Open in Front Passenger Side - Side Squib Circuit
DTC	B1827/56	Short to GND in Front Passenger Side - Side Squib Circuit
DTC	B1828/56	Short to B+ in Front Passenger Side - Side Squib Circuit

DESCRIPTION

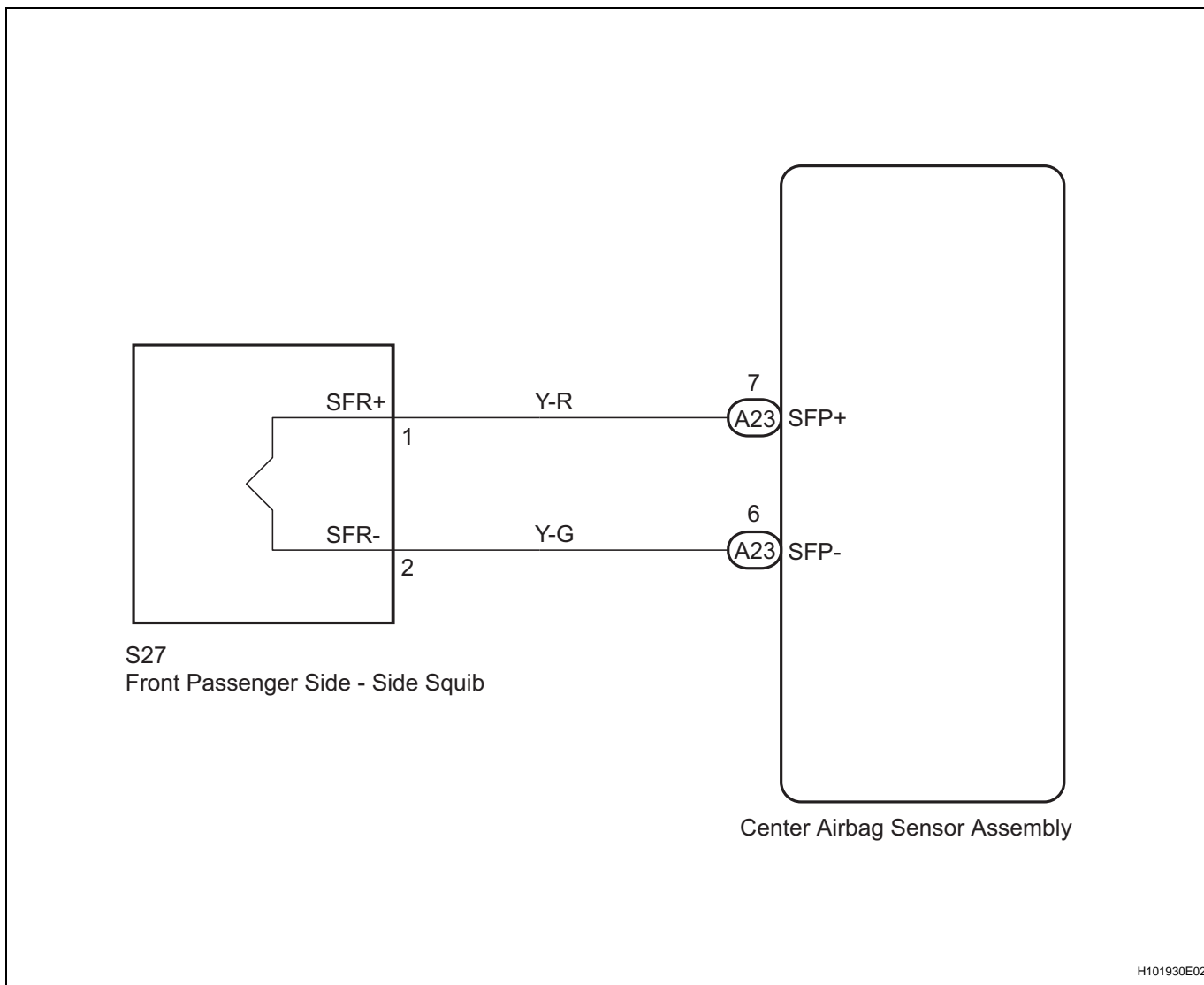
The side squib (front passenger seat side) circuit consists of the center airbag sensor assembly and the front seat with adjuster frame assembly RH.

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

These DTCs are set when a malfunction is detected in the side squib (front passenger seat side) circuit.

DTC No.	DTC Detecting Conditions	Trouble Areas
B1825/56	<ul style="list-style-type: none"> The center airbag sensor assembly receives a line short circuit signal in the side squib (Front passenger seat side) circuit for 2 seconds Side squib (Front passenger seat side) malfunction Center airbag sensor assembly malfunction 	<ul style="list-style-type: none"> Floor wire Front seat with adjuster frame assembly RH (Side squib [Front passenger seat side]) Center airbag sensor assembly
B11826/56	<ul style="list-style-type: none"> The center airbag sensor assembly receives an open circuit signal in the side squib (Front passenger seat side) circuit for 2 seconds Side squib (Front passenger seat side) malfunction Center airbag sensor assembly malfunction 	<ul style="list-style-type: none"> Floor wire Front seat with adjuster frame assembly RH (Side squib [Front passenger seat side]) Center airbag sensor assembly
B1827/56	<ul style="list-style-type: none"> The center airbag sensor assembly receives a short circuit to ground signal in the side squib (Front passenger seat side) circuit for 0.5 seconds Side squib (Front passenger seat side) malfunction Center airbag sensor assembly malfunction 	<ul style="list-style-type: none"> Floor wire Front seat with adjuster frame assembly RH (Side squib [Front passenger seat side]) Center airbag sensor assembly
B1828/56	<ul style="list-style-type: none"> The center airbag sensor assembly receives a short circuit to B+ signal in the side squib (Front passenger seat side) circuit for 0.5 seconds Side squib (Front passenger seat side) malfunction Center airbag sensor assembly malfunction 	<ul style="list-style-type: none"> Floor wire Front seat with adjuster frame assembly RH (Side squib [Front passenger seat side]) Center airbag sensor assembly

WIRING DIAGRAM

**CAUTION:**

In order to prevent unexpected airbag deployment, disconnect the following connectors before inspecting parts such as wire harnesses, if the application of tester probes to the center airbag sensor assembly connector is necessary.

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the connectors from the center airbag sensor assembly.
- Disconnect the connectors from the steering pad.
- Disconnect the connector from the front passenger airbag assembly.
- Disconnect the connector from the front seat airbag assembly LH.
- Disconnect the connector from the front seat airbag assembly RH.

HINT:

Skip the following steps if side and curtain shield airbags are not fitted.

- Disconnect the connector from the curtain shield airbag assembly LH.
- Disconnect the connector from the curtain shield airbag assembly RH.
- Disconnect the connector from the front seat outer belt assembly LH.
- Disconnect the connector from the front seat outer belt assembly RH.

1	CHECK DTC
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(a) Proceed to the appropriate step according to DTC readings.

(1) If using the intelligent tester (read the 5-digit DTCs):
Using the intelligent tester, check for DTCs (See page [RS-34](#)).

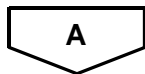
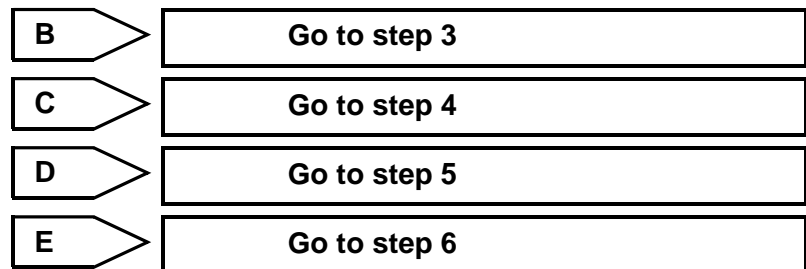
Result

Result	Proceed to
DTC B1825 is output.	A
DTC B1826 is output.	B
DTC B1827 is output.	C
DTC B1828 is output.	D

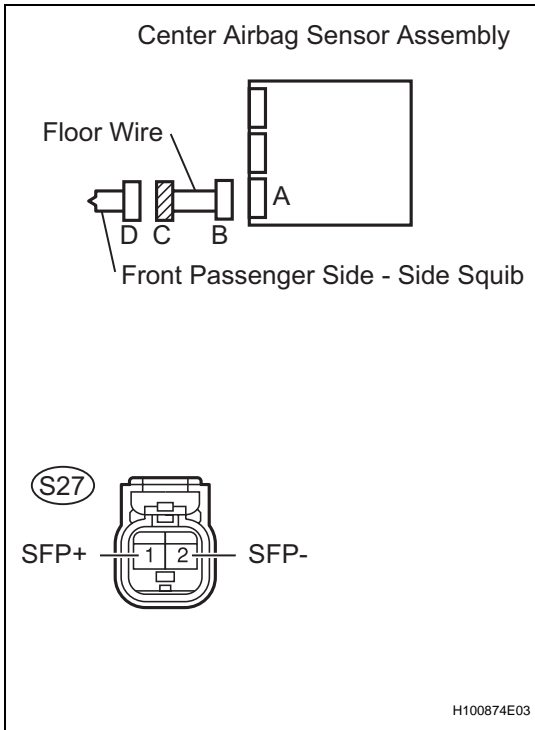
(2) If not using the intelligent tester (read the 2-digit DTCs):
Check for DTCs (See page [RS-34](#)).

Result

Result	Proceed to
DTC 56 is output.	E



2 CHECK FLOOR WIRE (FOR SHORT)



- (a) Release the activation prevention mechanism built into connector B (See page RS-28).
- (b) Measure the resistance.

Standard resistance

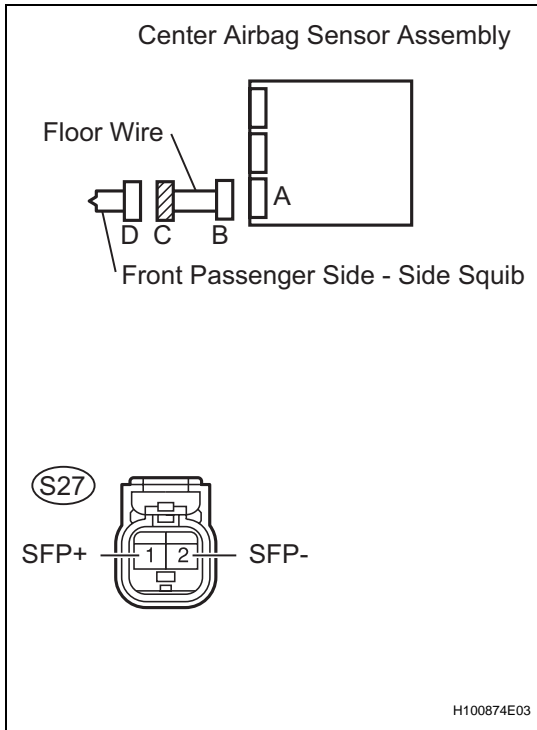
Tester Connection	Condition	Specified Condition
S27-1 (SFP+) - S27-2 (SFP-)	Always	1 MΩ or Higher

OK → **Go to step 8**

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REPAIR OR REPLACE FLOOR WIRE

3 CHECK FLOOR WIRE (FOR OPEN)



(a) Measure the resistance.
Standard resistance

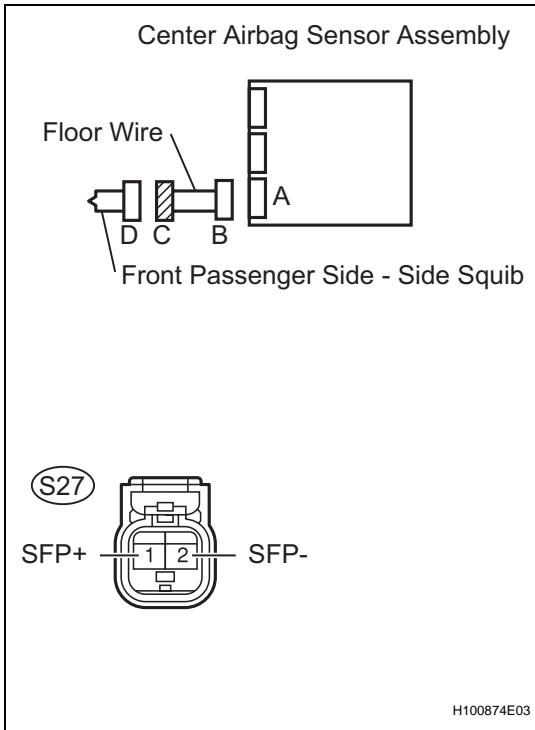
Tester Connection	Condition	Specified Condition
S27-1 (SFP+) - S27-2 (SFP-)	Always	Below 1 Ω

OK → **Go to step 9**

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REPAIR OR REPLACE FLOOR WIRE

4 CHECK FLOOR WIRE (TO GROUND)



(a) Measure the resistance.
Standard resistance

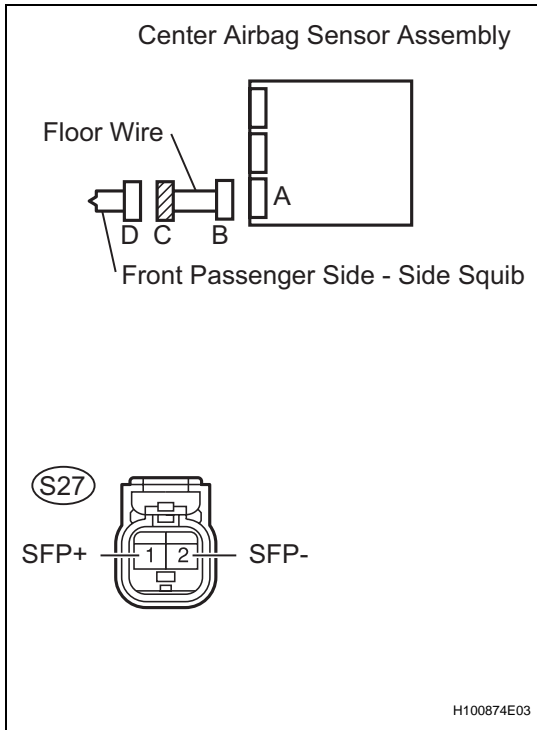
Tester Connection	Condition	Specified Condition
S27-1 (SFP+) - Body ground	Always	1 MΩ or Higher
S27-2 (SFP-) - Body ground	Always	1 MΩ or Higher

OK → **Go to step 9**

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REPAIR OR REPLACE FLOOR WIRE

5 CHECK FLOOR WIRE (TO B+)



- (a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (b) Turn the ignition switch to the ON position.
- (c) Measure the voltage.

Standard voltage

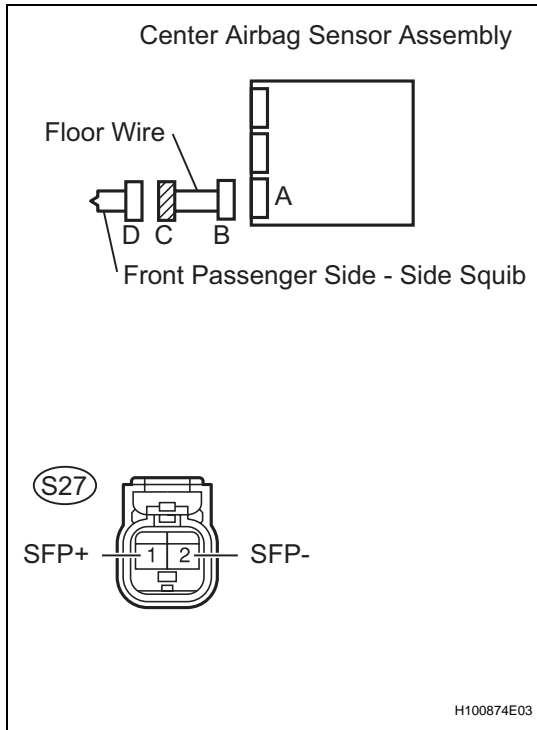
Tester Connection	Condition	Specified Condition
S27-1 (SFP+) - Body ground	Ignition switch ON	Below 1 V
S27-2 (SFP-) - Body ground	Ignition switch ON	Below 1 V

OK → **Go to step 9**

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REPAIR OR REPLACE FLOOR WIRE

6 CHECK FLOOR WIRE (SIDE SQUIB (FRONT PASSENGER SEAT SIDE) CIRCUIT)



- (a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (b) Turn the ignition switch to the ON position.
- (c) Measure the voltage.

Standard voltage

Tester Connection	Condition	Specified Condition
S27-1 (SFP+) - Body ground	Ignition switch ON	Below 1 V
S27-2 (SFP-) - Body ground	Ignition switch ON	Below 1 V

- (d) Turn the ignition switch to the LOCK position.
- (e) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.

- (f) Measure the resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
S27-1 (SFP+) - S27-2 (SFP-)	Always	Below 1 Ω
S27-1 (SFP+) - Body ground	Always	1 MΩ or Higher
S27-2 (SFP-) - Body ground	Always	1 MΩ or Higher

- (g) Release the activation prevention mechanism built into connector B (See page RS-28).

- (h) Measure the resistance.

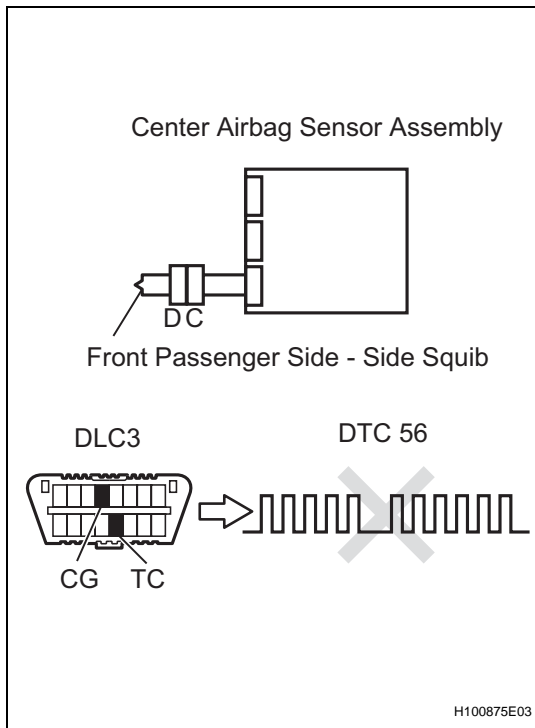
Standard resistance

Tester Connection	Condition	Specified Condition
S27-1 (SFP+) - S27-2 (SFP-)	Always	1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

7 REPLACE FRONT SEAT WITH ADJUSTER FRAME ASSEMBLY RH (SIDE SQUIB (FRONT PASSENGER SEAT SIDE))



- (a) Replace the front seat with adjuster frame assembly RH (See page [SE-38](#)).

HINT:

Perform the inspection using parts from a normal vehicle when possible.

- (b) Connect the connectors to the center airbag sensor assembly.
- (c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (e) Clear any DTCs stored in the memory (See page [RS-34](#)).
- (f) Turn the ignition switch to the LOCK position.
- (g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (h) Check for DTCs (See page [RS-34](#)).

OK:

DTC 56 is not output.

HINT:

DTCs other than 56 may be output at this time, but they are not related to this check.

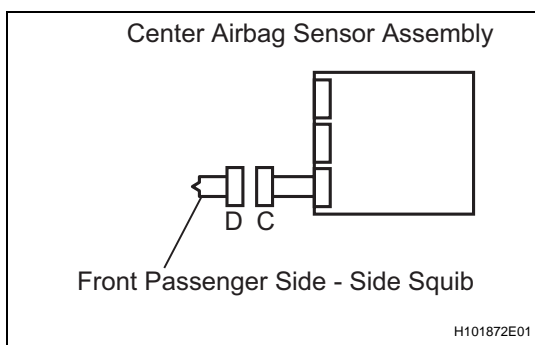
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REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

END

8 CHECK CENTER AIRBAG SENSOR ASSEMBLY



- (a) Connect the connectors to the center airbag sensor assembly.
- (b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (d) Clear any DTCs stored in the memory (See page [RS-34](#)).
- (e) Turn the ignition switch to the LOCK position.
- (f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (g) Check for DTCs (See page [RS-34](#)).

OK:

DTC B1825 is not output.

HINT:

DTCs other than B1825 may be output at this time, but they are not related to this check.

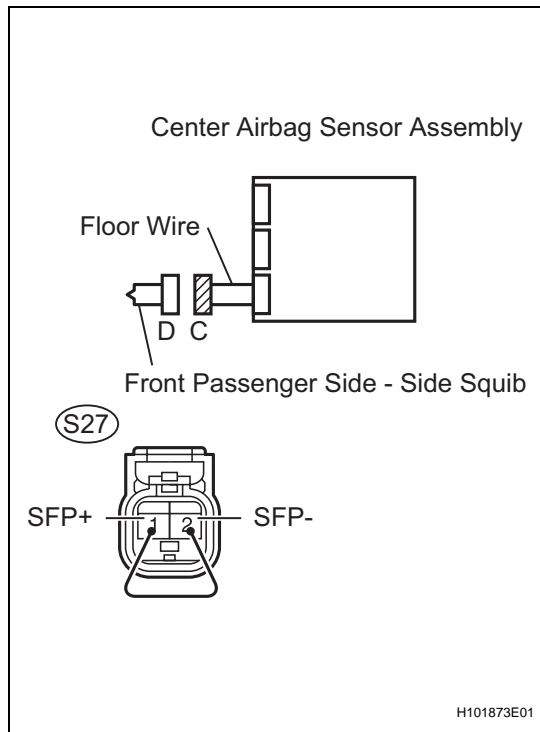
OK

Go to step 10

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REPLACE CENTER AIRBAG SENSOR ASSEMBLY

9 CHECK CENTER AIRBAG SENSOR ASSEMBLY



HINT:

If continuing from step 5, begin from (a). If continuing from any other step, begin from (c).

- (a) Turn ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Connect the connectors to the center airbag sensor assembly.
- (d) Using a service wire, connect S27-1 (SFP+) and S27-2 (SFP-) of connector C.

NOTICE:

Do not forcibly insert the service wire into the terminals of the connector when connecting.

- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (g) Clear the DTCs stored in the memory (See page RS-34).
- (h) Turn the ignition switch to the LOCK position.
- (i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (j) Check for DTCs (See page RS-34).

OK:

DTC B1826, B1827 and B1828 are not output.

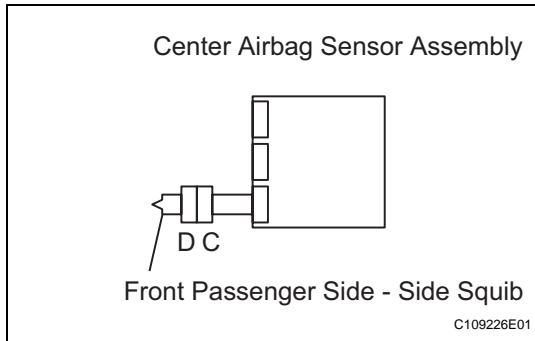
HINT:

DTCs other than B1826, B1827 or B1828 may be output at this time, but they are not related to this check.

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REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

10 CHECK FRONT SEAT WITH ADJUSTER FRAME ASSEMBLY LH**HINT:**

If continuing from step 9, begin from (c). If continuing from any other step, begin from (a).

- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the service wire from connector C.
- (d) Connect the connector to the front seat with adjuster frame assembly RH.
- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (g) Clear any DTCs stored in the memory (See page [RS-34](#)).
- (h) Turn the ignition switch to the LOCK position.
- (i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (j) Check for DTCs (See page [RS-34](#)).

OK:

DTC B1825, B1826, B1827 and B1828 are not output.

HINT:

DTCs other than B1825, B1826, B1827 or B1828 may be output at this time, but they are not related to this check.

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REPLACE FRONT SEAT WITH ADJUSTER FRAME ASSEMBLY LH

OK

OTHERS USE SIMULATION METHOD TO CHECK