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 Cir- cuit

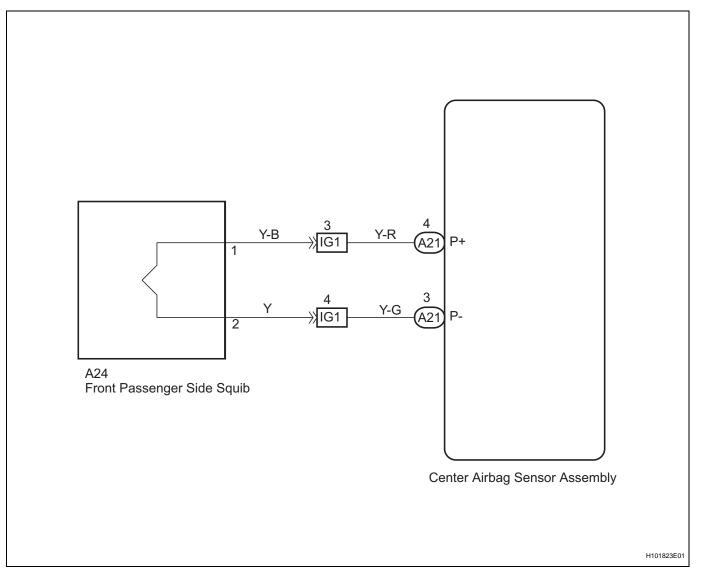
#### DESCRIPTION

The front passenger side squib circuit consists of the center airbag sensor assembly and the front passenger airbag assembly.

The circuit instructs the SRS to deploy when 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	<ul> <li>The center airbag sensor assembly receives a line short circuit in the front passenger side squib circuit for 2 seconds.</li> <li>Front passenger side squib malfunction</li> <li>Center airbag sensor assembly malfunction</li> </ul>	<ul> <li>Instrument panel wire</li> <li>Instrument panel wire assembly</li> <li>Front passenger airbag assembly (Front passenger side squib)</li> <li>Center airbag sensor assembly</li> </ul>
B1806/52	<ul> <li>The center airbag sensor assembly receives an open circuit signal in the front passenger side squib circuit for 2 seconds.</li> <li>Front passenger side squib malfunction</li> <li>Center airbag sensor assembly malfunction</li> </ul>	<ul> <li>Instrument panel wire</li> <li>Instrument panel wire assembly</li> <li>Front passenger airbag assembly (Front passenger side squib)</li> <li>Center airbag sensor assembly</li> </ul>
B1807/52	<ul> <li>The center airbag sensor assembly receives a short circuit to ground signal in the front passenger side squib circuit for 0.5 seconds.</li> <li>Front passenger side squib malfunction</li> <li>Center airbag sensor assembly malfunction</li> </ul>	<ul> <li>Instrument panel wire</li> <li>Instrument panel wire assembly</li> <li>Front passenger airbag assembly (Front passenger side squib)</li> <li>Center airbag sensor assembly</li> </ul>
B1808/52	<ul> <li>The center airbag sensor assembly receives a short circuit to B+ signal in the front passenger side squib circuit for 0.5 seconds.</li> <li>Front passenger side squib malfunction</li> <li>Center airbag sensor assembly malfunction</li> </ul>	<ul> <li>Instrument panel wire</li> <li>Instrument panel wire assembly</li> <li>Front passenger airbag assembly (Front passenger side squib)</li> <li>Center airbag sensor assembly</li> </ul>

#### 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.

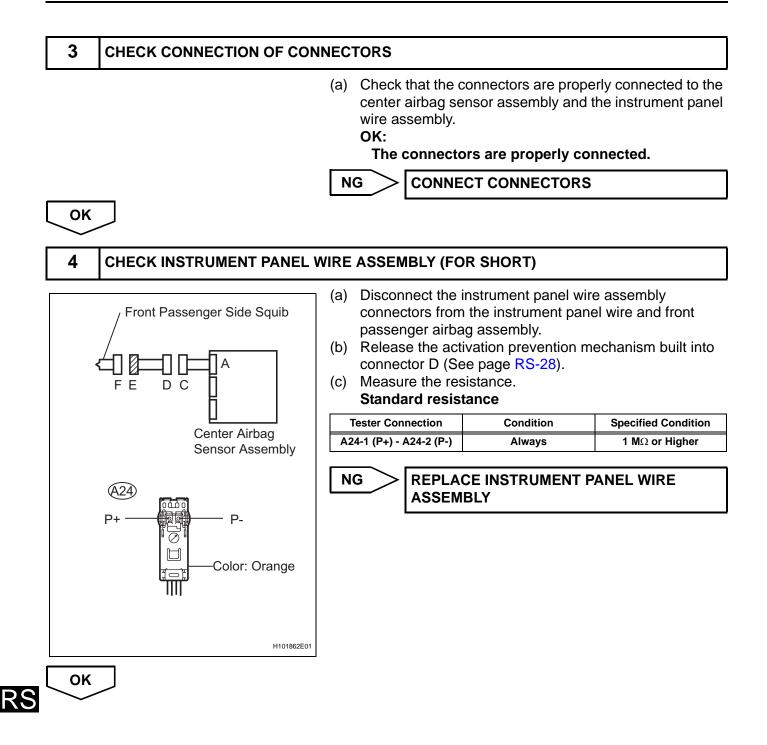
- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery and wait for at least 90 seconds.
- (c) Disconnect the connectors from the center airbag sensor assembly.
- (d) Disconnect the connectors from the steering pad.
- (e) Disconnect the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

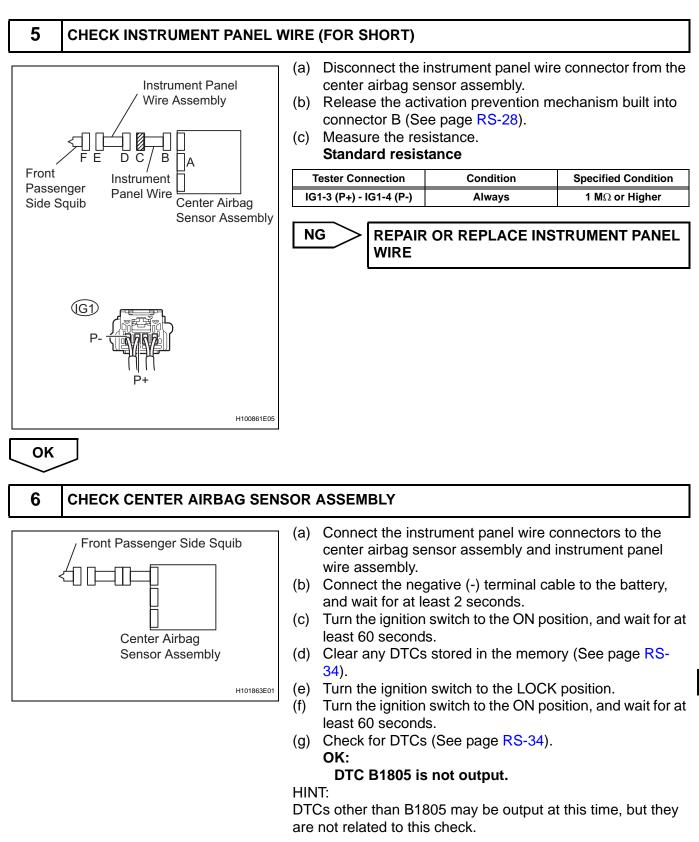
(g) Disconnect the connector from the front seat airbag assembly RH. HINT:

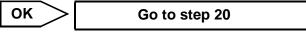
Skip the following steps if side and curtain shield airbags are not fitted.

- (h) Disconnect the connector from the curtain shield airbag assembly LH.
- (i) Disconnect the connector from the curtain shield airbag assembly RH.
- (j) Disconnect the connector from the front seat outer belt assembly LH.
- (k) Disconnect the connector from the front seat outer belt assembly RH.

1	CHECK DTC		
		<ul> <li>(a) Proceed to the appropriate step accorreadings.</li> <li>(1) If using the intelligent tester (real Using the intelligent tester, chech page RS-34).</li> <li>Result</li> </ul>	d the 5-digit DTCs):
		Result	Proceed to
		DTC B1805 is output.	A
		DTC B1806 is output.	В
		DTC B1807 is output.	С
		DTC B1808 is output.	D
		<ul><li>(2) If not using the intelligent tester DTCs): Check for DTCs (See pa Result</li></ul>	
		Result	Proceed to
		DTC 52 is output.	E
		B Go to step 7	
		C Go to step 11	
		D Go to step 15	
		E Go to step 21	
A 2			
		<ul> <li>(a) Turn the ignition switch to the LOCK</li> <li>(b) Disconnect the negative (-) terminal battery, and wait for at least 90 second</li> <li>(c) Check that the instrument panel wire connectors (on the front passenger a side) are not damaged.</li> <li>OK:</li> <li>The lock button is not disengage the lock is not deformed or damaged</li> </ul>	cable from the nds. assembly airbag assembly ed, and the claw of
		NG REPLACE INSTRUMENT PA	ANEL WIRE





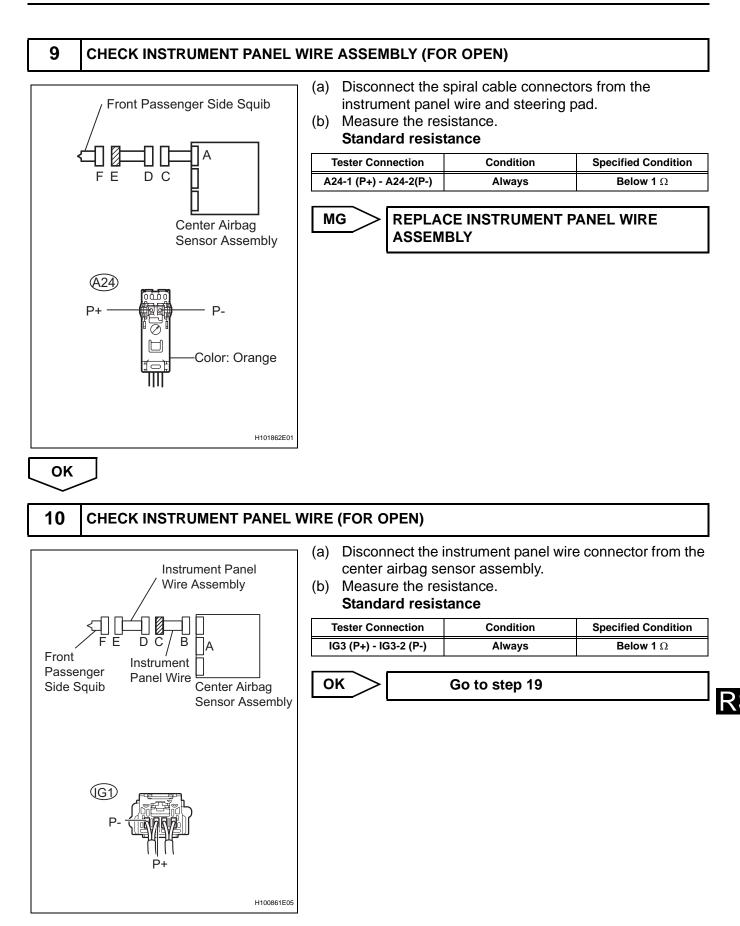


NG

### REPLACE CENTER AIRBAG SENSOR ASSEMBLY

7	CHECK CONNECTOR		
		<ul> <li>(a) Turn the ignition switch to the LOCK position.</li> <li>(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.</li> <li>(c) Check that the instrument panel wire assembly connectors (on the front passenger airbag assembly side) are not damaged.</li> <li>OK:</li> <li>The lock button is not disengaged, or the claw of the lock is not deformed or damaged.</li> </ul>	
Ок		NG REPLACE INSTRUMENT PANEL WIRE ASSEMBLY	
8	CHECK CONNECTORS		
L		<ul> <li>(a) Check that the connectors are properly connected to the center airbag sensor assembly and the instrument panel wire assembly.</li> <li>OK:</li> <li>The connectors are properly connected.</li> </ul>	
		NG CONNECT CONNECTORS	
ОК			

RS

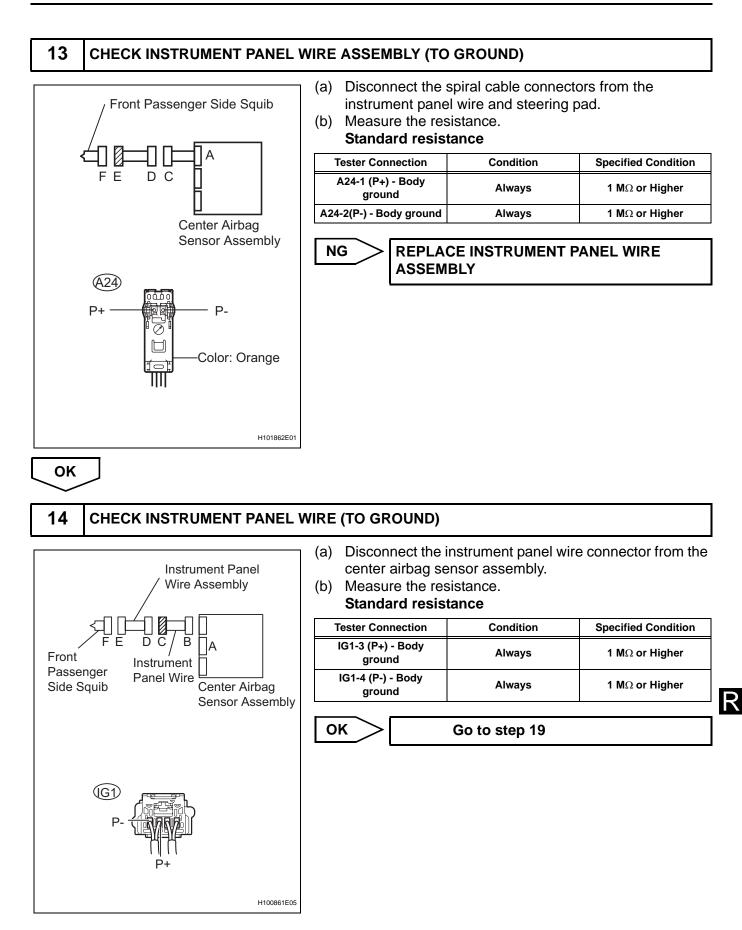


NG

#### REPAIR OR REPLACE INSTRUMENT PANEL WIRE

11	CHECK CONNECTOR
	<ul> <li>(a) Turn the ignition switch to the LOCK position.</li> <li>(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.</li> <li>(c) Check that the instrument panel wire assembly connectors (on the front passenger airbag assembly side) are not damaged.</li> <li>OK: The lock button is not disengaged, and the claw of the lock is not deformed or damaged.</li> </ul>
	NG REPLACE INSTRUMENT PANEL WIRE ASSEMBLY
ОК	]
12	CHECK CONNECTION OF CONNECTORS
	<ul> <li>(a) Check that the connectors are properly connected to the center airbag sensor assembly and the instrument panel wire assembly.</li> <li>OK:</li> <li>The connectors are properly connected.</li> </ul>
	NG CONNECT CONNECTORS
ОК	]

RS

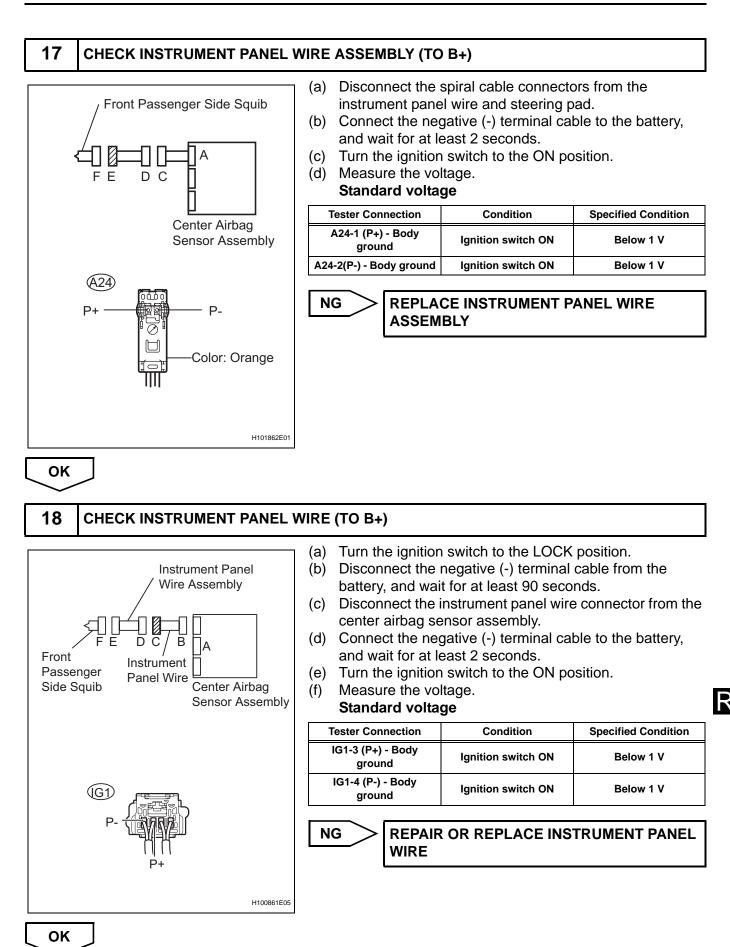


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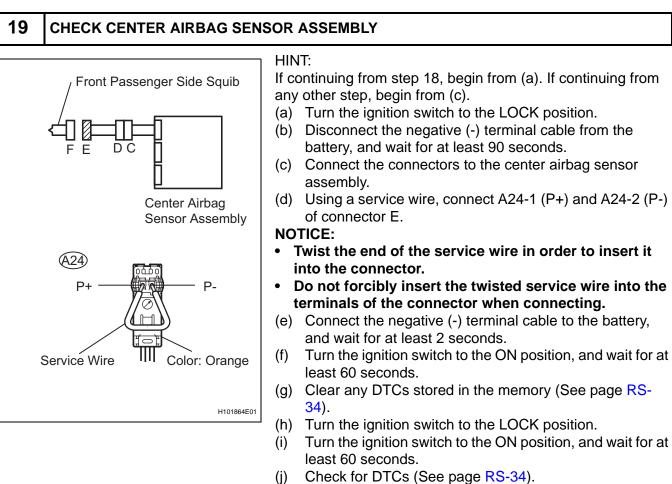
#### REPAIR OR REPLACE INSTRUMENT PANEL WIRE

15	CHECK CONNECTOR
	<ul> <li>(a) Turn the ignition switch to the LOCK position.</li> <li>(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.</li> <li>(c) Check that the instrument panel wire assembly connectors (on the front passenger airbag assembly side) are not damaged.</li> <li>OK:</li> <li>The lock button is not disengaged, and the claw of the lock is not deformed or damaged.</li> </ul>
	NG REPLACE INSTRUMENT PANEL WIRE ASSEMBLY
ОК	
16	CHECK CONNECTION OF CONNECTORS
	<ul> <li>(a) Check that the connectors are properly connected to the center airbag sensor assembly and the instrument panel wire assembly.</li> <li>OK:</li> </ul>
	The connectors are properly connected.
ОК	

RS



RS-213



OK:

#### DTC B1806, B1807 and B1808 are not output. HINT:

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

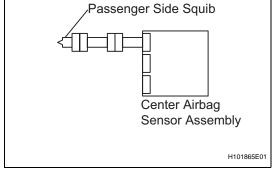


RS

OK

20

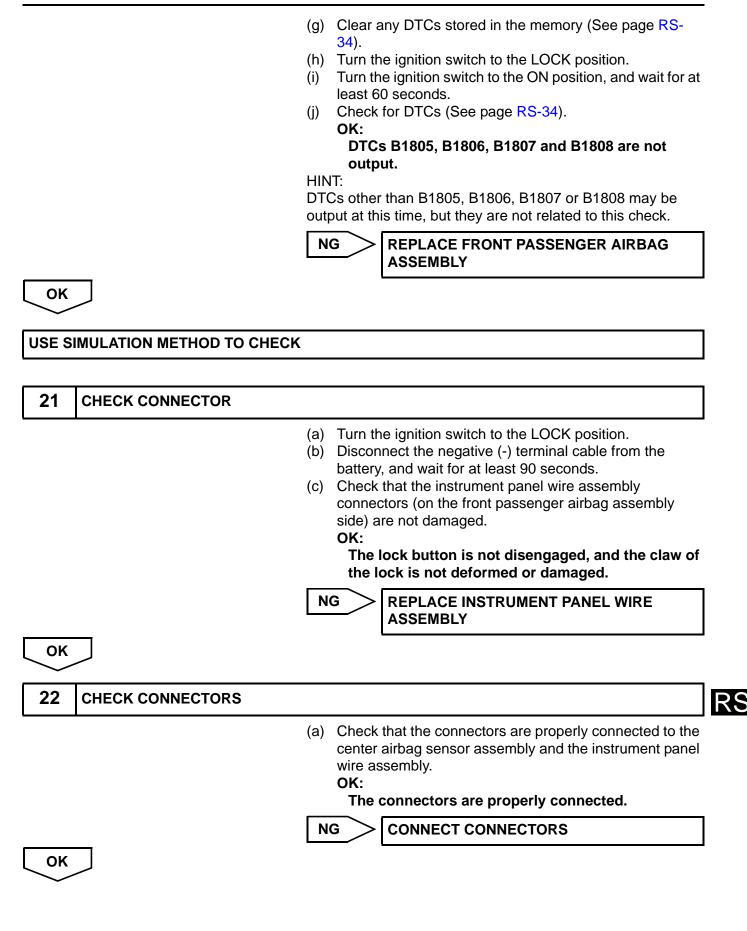
#### CHECK FRONT PASSENGER AIRBAG ASSEMBLY (FRONT PASSENGER SIDE SQUIB)



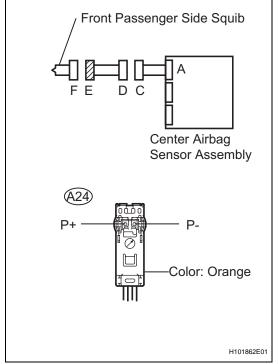
#### HINT:

If continuing from step 19, begin from (c). If continuing from any other step, being 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 SST from connector C.
- (d) Connect the connectors to the front passenger airbag assembly.
- (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.



#### 23 CHECK INSTRUMENT PANEL WIRE ASSEMBLY



- (a) Disconnect the instrument panel wire assembly connectors from the instrument panel wire and front passenger airbag 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.

## (d) Measure the voltage.

#### Standard voltage

Tester Connection	Condition	Specified Condition
A24-1 (P+) - Body ground	Ignition switch ON	Below 1 V
A24-2(P-) - Body ground	Ignition switch ON	Below 1 V

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

# (g) Measure the resistance. **Standard resistance**

Tester Connection	Condition	Specified Condition
A24-1 (P+) - A24-2 (P-)	Always	Below 1 Ω
A24-1 (P+) - Body ground	Always	1 M $\Omega$ or Higher
A24-2(P-) - Body ground	Always	1 M $\Omega$ or Higher

- (h) Release the activation prevention mechanism built into connector D (See page RS-28).
- (i) Measure the resistance **Standard resistance**

Tester Connection	Condition	Specified Condition
A24-1 (P+) - A24-2 (P-)	Always	1 M $\Omega$ or Higher





#### 24 CHECK INSTRUMENT PANEL WIRE (FRONT PASSENGER SIDE SQUIB) (a) Restore the released activation prevention mechanism Instrument Panel of connector B to the original condition. Wire Assembly (b) Disconnect the instrument panel wire connector from the center airbag sensor assembly. (c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds. В C (d) Turn the ignition switch to the ON position. Front Instrument (e) Measure the voltage. Passenger Panel Wire Side Squib Center Airbag Standard voltage Sensor Assembly

Tester Connection	Condition	Specified Condition
IG1-3 (P+) - Body ground	Ignition switch ON	Below 1 V
IG1-4 (P-) - Body ground	Ignition switch ON	Below 1 V

- (f) Turn the ignition switch to the LOCK position.
- (g) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (h) Measure the resistance. **Standard resistance**

Tester Connection	Condition	Specified Condition
IG1-3 (P+) - IG1-4 (P-)	Always	Below 1 Ω
IG1-3 (P+) - Body ground	Always	1 M $\Omega$ or Higher
IG1-4 (P-) - Body ground	Always	1 M $\Omega$ or Higher

- (i) Release the activation prevention mechanism built into connector B (See page RS-28).
- (j) Measure the resistance. **Standard resistance**

Tester Connection	Condition	Specified Condition
IG1-3 (P+) - IG1-4 (P-)	Always	1 M $\Omega$ or Higher

NG

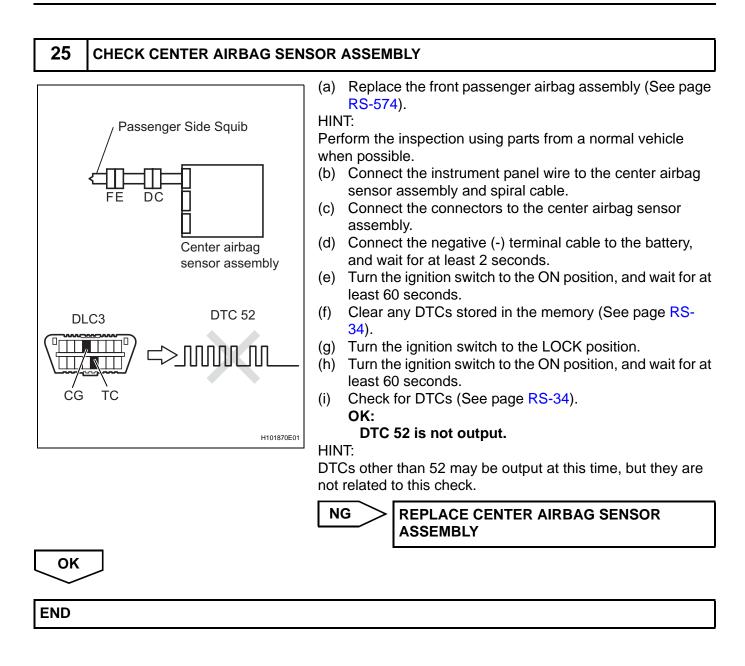
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REPAIR OR REPLACE INSTRUMENT PANEL
WIRE



(G1)

**RS-217** 



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