

<b>DTC</b>	<b>B1905/74</b>	<b>Short in Front Passenger Side Front Pretensioner Squib Circuit</b>
<b>DTC</b>	<b>B1906/74</b>	<b>Open in Front Passenger Side Front Pretensioner Squib Circuit</b>
<b>DTC</b>	<b>B1907/74</b>	<b>Short to GND in Front Passenger Side Front Pretensioner Squib Circuit</b>
<b>DTC</b>	<b>B1908/74</b>	<b>Short to B+ in Front Passenger Side Front Pretensioner Squib Circuit</b>

**DESCRIPTION**

The front passenger side front pretensioner squib circuit consists of the center airbag sensor assembly and the front seat outer belt assembly RH.

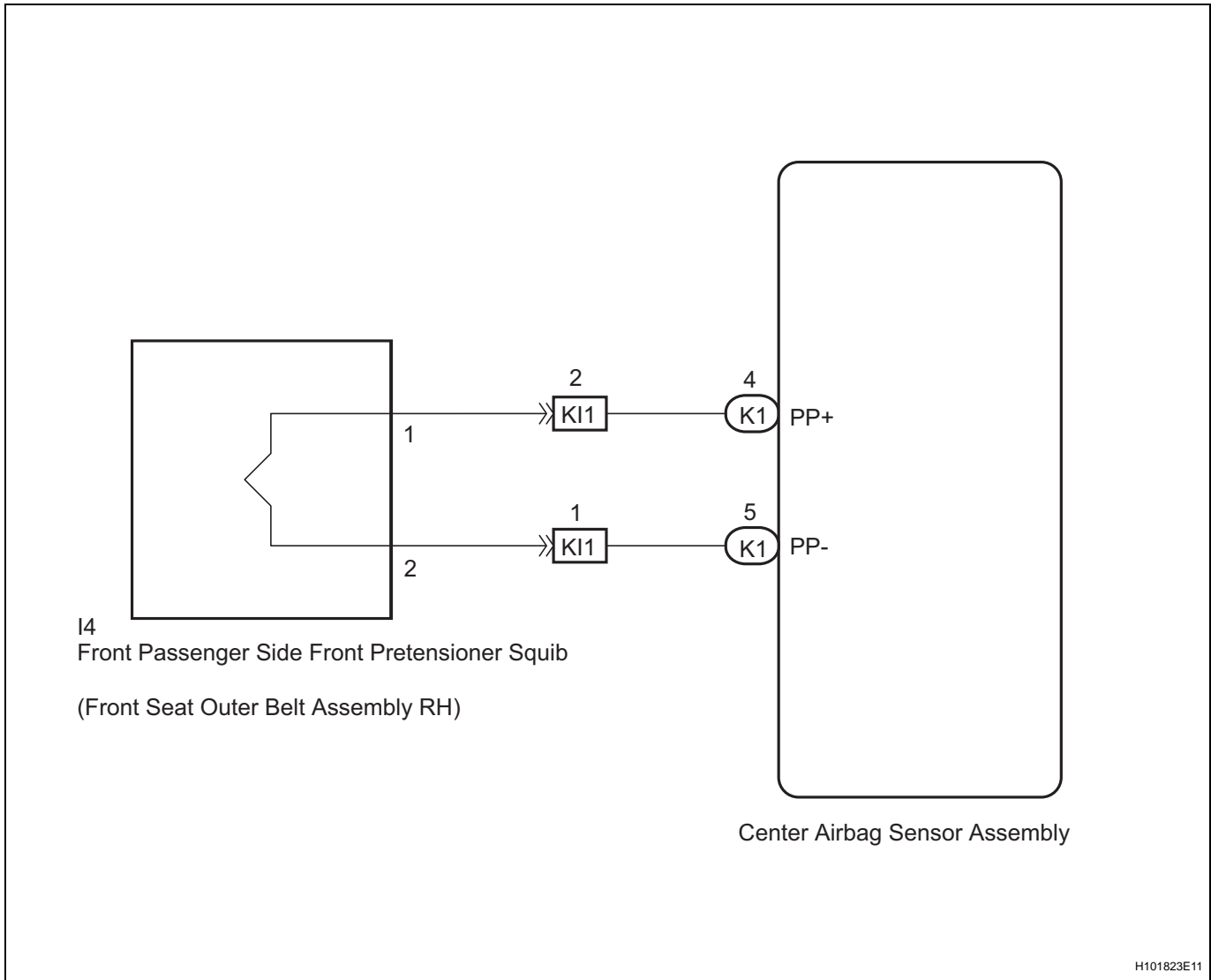
This circuit signals the SRS to deploy when deployment conditions are met.

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

**RS**

<b>DTC No.</b>	<b>DTC Detection Condition</b>	<b>Trouble Area</b>
B1905/74	<ul style="list-style-type: none"> <li>Center airbag sensor assembly detects line short circuit signal in front passenger side front pretensioner squib circuit 5 times during primary check.</li> <li>Front passenger side front pretensioner squib malfunction</li> <li>Center airbag sensor assembly malfunction</li> </ul>	<ul style="list-style-type: none"> <li>Rear door wire No.1</li> <li>Floor wire</li> <li>Front seat outer belt assembly RH (Front passenger side front pretensioner squib)</li> <li>Center airbag sensor assembly</li> </ul>
B1906/74	<ul style="list-style-type: none"> <li>Center airbag sensor assembly detects open circuit signal in front passenger side front pretensioner squib circuit for 2 seconds.</li> <li>Front passenger side front pretensioner squib malfunction</li> <li>Center airbag sensor assembly malfunction</li> </ul>	<ul style="list-style-type: none"> <li>Rear door wire No.1</li> <li>Floor wire</li> <li>Front seat outer belt assembly RH (Front passenger side front pretensioner squib)</li> <li>Center airbag sensor assembly</li> </ul>
B1907/74	<ul style="list-style-type: none"> <li>Center airbag sensor assembly detects short circuit to ground signal in front passenger side front pretensioner squib circuit for 0.5 seconds.</li> <li>Front passenger side front pretensioner squib malfunction</li> <li>Center airbag sensor assembly malfunction</li> </ul>	<ul style="list-style-type: none"> <li>Rear door wire No.1</li> <li>Floor wire</li> <li>Front seat outer belt assembly RH (Front passenger side front pretensioner squib)</li> <li>Center airbag sensor assembly</li> </ul>
B1908/74	<ul style="list-style-type: none"> <li>Center airbag sensor assembly detects short circuit to B+ signal in front passenger side front pretensioner squib circuit for 0.5 seconds.</li> <li>Front passenger side front pretensioner squib malfunction</li> <li>Center airbag sensor assembly malfunction</li> </ul>	<ul style="list-style-type: none"> <li>Rear door wire No.1</li> <li>Floor wire</li> <li>Front seat outer belt assembly RH (Front passenger side front pretensioner squib)</li> <li>Center airbag sensor assembly</li> </ul>

## WIRING DIAGRAM



## INSPECTION PROCEDURE

## HINT:

- Perform the simulation method by selecting CHECK MODE (signal check) with the intelligent tester (See page [RS-39](#)).
- After selecting 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-29](#)).

<b>1</b>	<b>CHECK CONNECTOR (REAR DOOR WIRE NO.1 - FRONT SEAT OUTER BELT ASSEMBLY RH)</b>
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- Turn the ignition switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Check the rear door wire No.1 connector and terminals (on the front seat outer belt assembly RH side) and check that the connector is properly connected to the front seat outer belt assembly RH .

Result

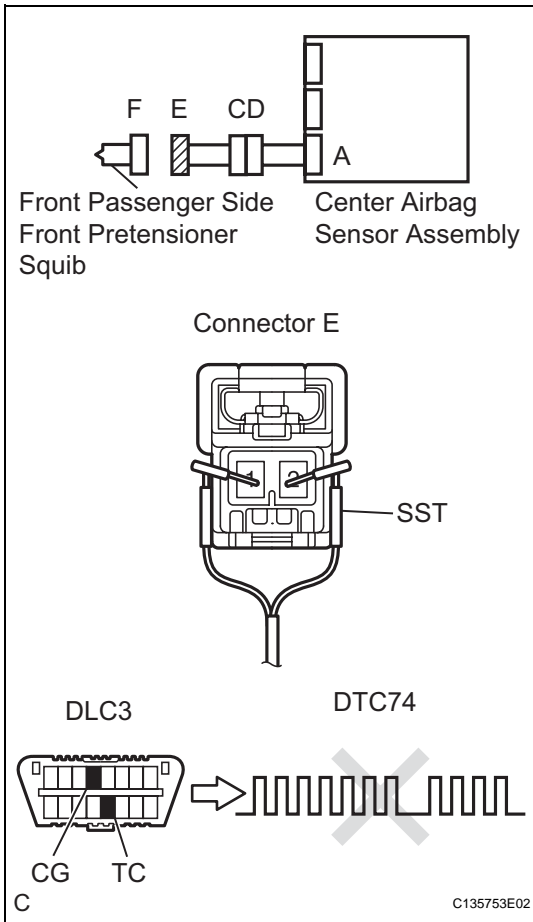
Result	Proceed to
No problem.	A
Connector or terminals incorrect.	B
Connector connected improperly.	C

**B** REPAIR OR REPLACE REAR DOOR WIRE NO.1

**C** CONNECT CONNECTOR PROPERLY

**A**

**2** CHECK FRONT SEAT OUTER BELT ASSEMBLY RH (FRONT PASSENGER SIDE FRONT PRETENSIONER SQUIB)



**SST 09843-18060**

- (a) Disconnect the connectors from the front seat outer belt assembly RH.
- (b) Connect the black wire side of SST (resistance 2.1 Ω) to connector E.

**CAUTION:**

**Never connect a tester to the front seat outer belt assembly RH (front passenger side front pretensioner squib) for measurement, as this may lead to a serious injury due to airbag deployment.**

**NOTICE:**

- Do not forcibly insert the SST into the terminals of the connector when connecting.
  - Insert the SST straight into the terminals of the connector.
- (c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
  - (d) Turn the ignition switch on, and wait for at least 60 seconds.
  - (e) Clear the DTCs stored in the memory (See page RS-36).
  - (f) Turn the ignition switch off.
  - (g) Turn the ignition switch on, and wait for at least 60 seconds.
  - (h) Check the DTCs (See page RS-36).

**OK:**

**DTC B1905/74, B1906/74, B1907/74 and B1908/74 are not output.**

**HINT:**

DTCs other than DTC B1905/74, B1906/74, B1907/74 and B1908/74 may be output at this time, but they are not related to this check.

**OK** REPLACE FRONT SEAT OUTER BELT ASSEMBLY RH

**NG**

**RS**

**3 CHECK CONNECTOR (FLOOR WIRE - REAR DOOR WIRE NO.1)**

- (a) Turn the ignition switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the SST from connector E.
- (d) Check the floor wire connector and terminals (on the rear door wire No.1 side) and check that the connector is properly connected to the rear door wire No.1.

**Result**

Result	Proceed to
No problem.	A
Connector or terminals incorrect.	B
Connector connected improperly.	C

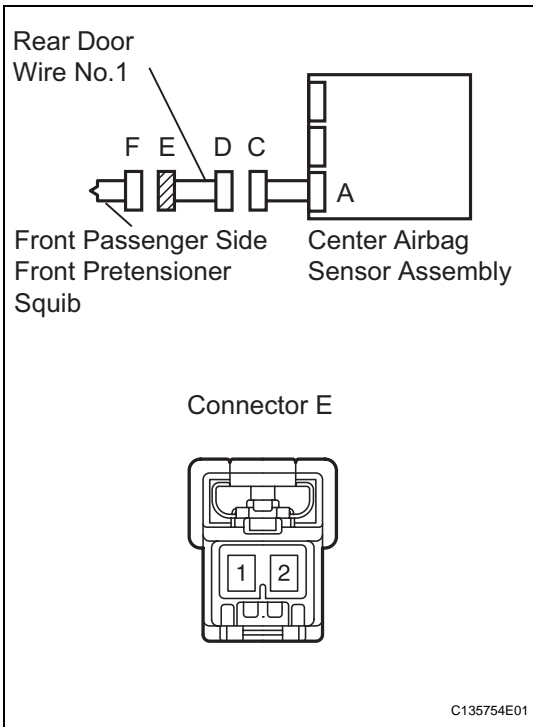
RS

**B** → REPAIR OR REPLACE FLOOR WIRE

**C** → CONNECT CONNECTOR PROPERLY

**A**

**4 CHECK REAR DOOR WIRE NO.1**



- (a) Disconnect the floor wire connector from the rear door wire No.1.
- (b) Check for short to B+ in the circuit.
  - (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
  - (2) Turn the ignition switch on.
  - (3) Measure the voltage.

**Standard voltage**

Tester Connection	Condition	Specified Condition
1 - Body ground	Ignition switch on	Below 1 V
2 - Body ground	Ignition switch on	Below 1 V

- (c) Check for open in the circuit.
  - (1) Turn the ignition switch off.
  - (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
  - (3) Measure the resistance.

**Standard resistance**

Tester Connection	Condition	Specified Condition
1 - 2	Always	Below 1 Ω

- (d) Check for short to ground in the circuit.
  - (1) Measure the resistance.

**Standard resistance**

Tester Connection	Condition	Specified Condition
1 - Body ground	Always	1 MΩ or higher
2 - Body ground	Always	1 MΩ or higher

- (e) Check for short in the circuit.
  - (1) Release the activation prevention mechanism built into connector D (See page RS-29).
  - (2) Measure the resistance.

**Standard resistance**

Tester Connection	Condition	Specified Condition
1 - 2	Always	1 MΩ or higher

- (3) Restore the released activation prevention mechanism of connector D to the original condition.

**NG** → REPAIR OR REPLACE REAR DOOR WIRE NO.1

**OK**

**5 CHECK CONNECTOR (FLOOR WIRE - CENTER AIRBAG SENSOR ASSEMBLY)**

**RS**

- (a) Check the floor wire connector and terminals (on the center airbag sensor assembly side) and check that the connector is properly connected to the center airbag sensor assembly.

**Result**

Result	Proceed to
No problem.	A
Connector or terminals incorrect.	B
Connector connected improperly.	C

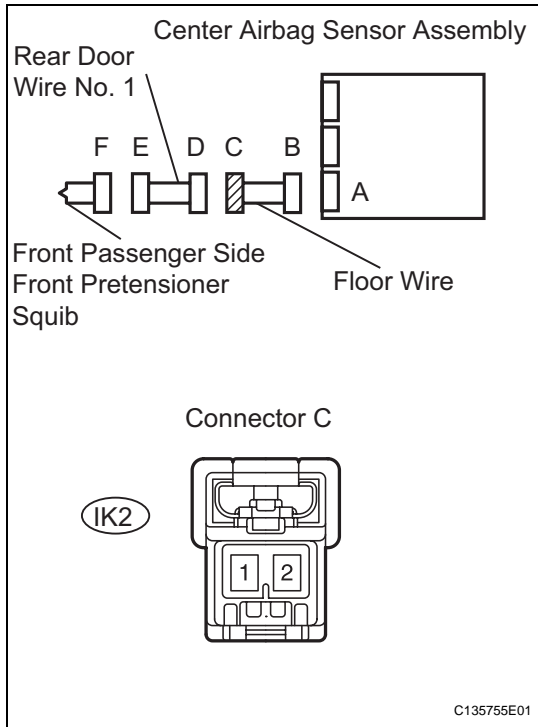
**B** → REPAIR OR REPLACE FLOOR WIRE

**C** → CONNECT CONNECTOR PROPERLY

**A**

## 6

## CHECK FLOOR WIRE



- (a) Disconnect the connectors from the center airbag sensor assembly.
- (b) Check for short to B+ in the circuit.
- (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
  - (2) Turn the ignition switch on.
  - (3) Measure the voltage.

**Standard voltage**

Tester Connection	Condition	Specified Condition
1 - Body ground	Ignition switch on	Below 1 V
2 - Body ground	Ignition switch on	Below 1 V

- (c) Check for open in the circuit.
- (1) Turn the ignition switch off.
  - (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
  - (3) Measure the resistance.

**Standard resistance**

Tester Connection	Condition	Specified Condition
1 - 2	Always	Below 1 Ω

- (d) Check for short to ground in the circuit.

- (1) Measure the resistance.

**Standard resistance**

Tester Connection	Condition	Specified Condition
1 - Body ground	Always	1 MΩ or higher
2 - Body ground	Always	1 MΩ or higher

- (e) Check for short in the circuit.

- (1) Release the activation prevention mechanism built into connector B (See page [RS-29](#)).
- (2) Measure the resistance.

**Standard resistance**

Tester Connection	Condition	Specified Condition
1 - 2	Always	1 MΩ or higher

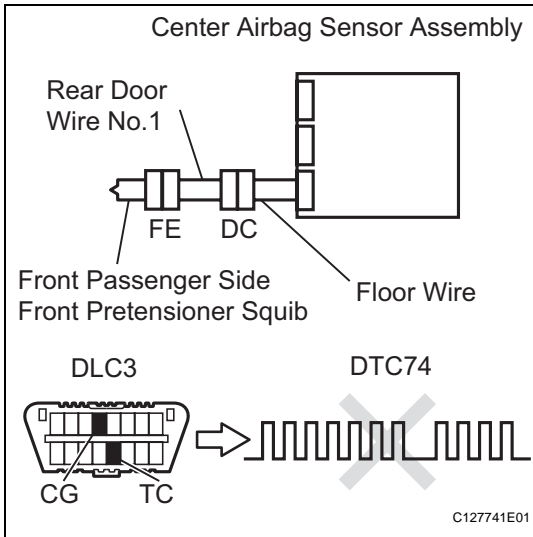
- (3) Restore the released activation prevention mechanism of connector B to the original condition.

NG

REPAIR OR REPLACE FLOOR WIRE

OK

**7 CHECK CENTER AIRBAG SENSOR ASSEMBLY**



- (a) Connect the floor wire connector to the rear door wire No.1.
- (b) Connect the connectors to the front seat outer belt assembly RH and 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 on, and wait for at least 60 seconds.
- (e) Clear the DTCs stored in the memory (See page RS-36).
- (f) Turn the ignition switch off.
- (g) Turn the ignition switch on, and wait for at least 60 seconds.
- (h) Check the DTCs (See page RS-36).

**OK:**

**DTC B1905/74, B1906/74, B1907/74 and B1908/74 are not output.**

**HINT:**

DTCs other than DTC B1905/74, B1906/74, B1907/74 and B1908/74 may be output at this time, but they are not related to this check.

**OK**

**NG**

**REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

**USE SIMULATION METHOD TO CHECK**

**RS**