

|            |                 |                                                                     |
|------------|-----------------|---------------------------------------------------------------------|
| <b>DTC</b> | <b>B1900/73</b> | <b>Short in Front Driver Side Pretensioner Squib Circuit</b>        |
| <b>DTC</b> | <b>B1901/73</b> | <b>Open in Front Driver Side Pretensioner Squib Circuit</b>         |
| <b>DTC</b> | <b>B1902/73</b> | <b>Short to GND in Front Driver Side Pretensioner Squib Circuit</b> |
| <b>DTC</b> | <b>B1903/73</b> | <b>Short to B+ in Front Driver Side Pretensioner Squib Circuit</b>  |

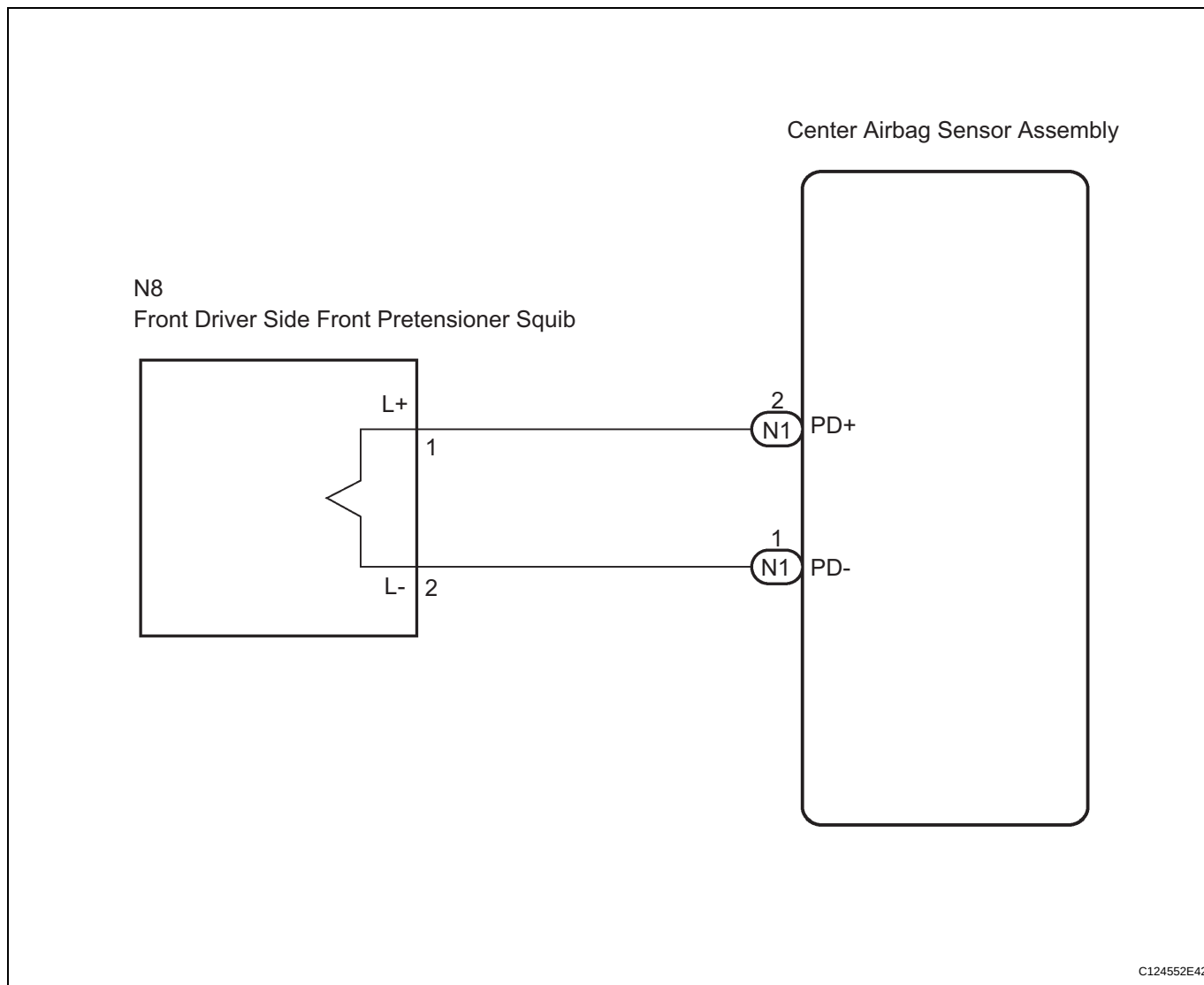
## DESCRIPTION

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

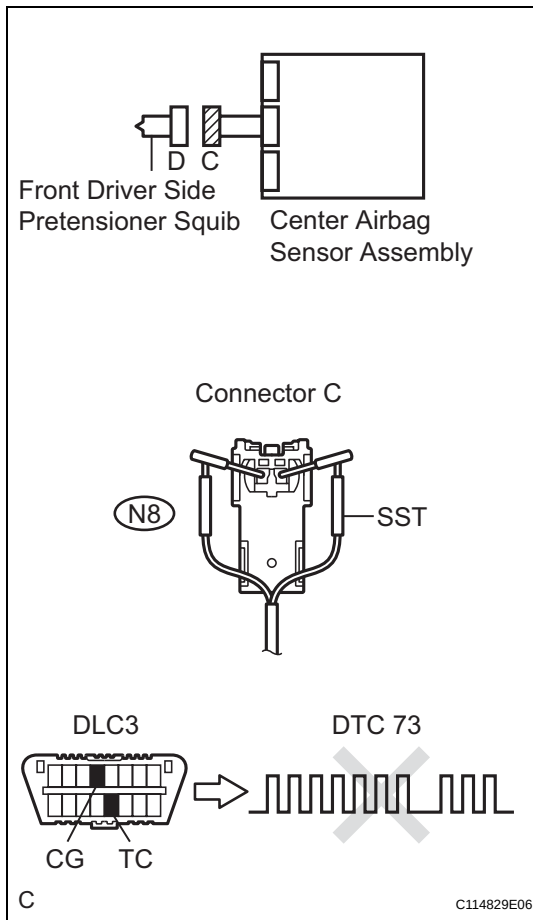
This circuit instructs the SRS to deploy when deployment conditions are met.

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

| <b>DTC No.</b> | <b>DTC Detection Condition</b>                                                                                                                                                                                                                                                                                          | <b>Trouble Area</b>                                                                                                                                                                   |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B1900/73       | <ul style="list-style-type: none"> <li>The center airbag sensor assembly receives a line short circuit signal 5 times in the front driver side pretensioner squib circuit during primary check.</li> <li>Front driver side pretensioner squib malfunction</li> <li>Center airbag sensor assembly malfunction</li> </ul> | <ul style="list-style-type: none"> <li>Floor wire</li> <li>Front seat outer belt assembly LH (Front driver side pretensioner squib)</li> <li>Center airbag sensor assembly</li> </ul> |
| B1901/73       | <ul style="list-style-type: none"> <li>The center airbag sensor assembly receives an open circuit signal in the front driver side pretensioner squib circuit for 2 seconds.</li> <li>Front driver side pretensioner squib malfunction</li> <li>Center airbag sensor assembly malfunction</li> </ul>                     | <ul style="list-style-type: none"> <li>Floor wire</li> <li>Front seat outer belt assembly LH (Front driver side pretensioner squib)</li> <li>Center airbag sensor assembly</li> </ul> |
| B1902/73       | <ul style="list-style-type: none"> <li>The center airbag sensor assembly receives a short circuit to ground signal in the front driver side pretensioner squib circuit for 0.5 seconds.</li> <li>Front driver side pretensioner squib malfunction</li> <li>Center airbag sensor assembly malfunction</li> </ul>         | <ul style="list-style-type: none"> <li>Floor wire</li> <li>Front seat outer belt assembly LH (Front driver side pretensioner squib)</li> <li>Center airbag sensor assembly</li> </ul> |
| B1903/73       | <ul style="list-style-type: none"> <li>The center airbag sensor assembly receives a short circuit to B+ signal in the front driver side pretensioner squib circuit for 0.5 seconds.</li> <li>Front driver side pretensioner squib malfunction</li> <li>Center airbag sensor assembly malfunction</li> </ul>             | <ul style="list-style-type: none"> <li>Floor wire</li> <li>Front seat outer belt assembly LH (Front driver side 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-44](#)).
- 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-44](#)).

**1****CHECK FRONT SEAT OUTER BELT ASSEMBLY LH (FRONT DRIVER SIDE PRETENSIONER SQUIB)**

- (a) Turn the power switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the connectors from the front seat outer belt assembly LH.
- (d) Connect the white wire side of SST (resistance 2.1  $\Omega$ ) to connector C.

**CAUTION:**

**Never connect the tester to the front seat outer belt assembly LH (front driver side 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 straight the SST into the terminals of the connector.

**SST 09843-18060**

- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the power switch on (IG), and wait for at least 60 seconds.
- (g) Clear the DTCs stored in the memory (See page RS-41).
- (h) Turn the power switch off.
- (i) Turn the power switch on (IG), and wait for at least 60 seconds.
- (j) Check the DTCs (See page RS-41).

**OK:**

**DTC B1900, B1901, B1902, B1903, or 73 is not output.**

**HINT:**

Codes other than DTC B1900, B1901, B1902, B1903, and 73 may be output at this time, but they are not related to this check.

**OK**

**REPLACE FRONT SEAT OUTER BELT ASSEMBLY LH (See page SB-21)**

**NG****2****CHECK CONNECTOR**

- (a) Turn the power switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the SST from connector C.
- (d) Check that the floor wire connector (on the front seat outer belt assembly LH side) is not damaged.

OK:

The lock button is not disengaged, or the claw of the lock is not deformed or damaged.

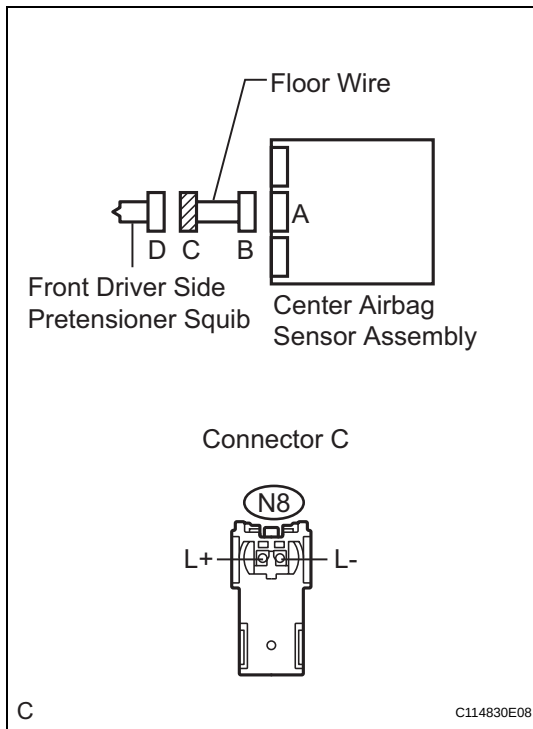
NG

REPAIR OR REPLACE FLOOR WIRE

OK

3

## CHECK FLOOR WIRE (FRONT DRIVER SIDE PRETENSIONER SQUIB CIRCUIT)



(a) Disconnect the connectors from the center airbag sensor assembly.

(b) Check for a 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 power switch on (IG).

(3) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

| Tester connection       | Condition            | Specified condition |
|-------------------------|----------------------|---------------------|
| N8-1 (L+) - Body ground | Power switch on (IG) | Below 1 V           |
| N8-2 (L-) - Body ground | Power switch on (IG) | Below 1 V           |

(c) Check for an open in the circuit.

(1) Turn the power switch off.

(2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.

(3) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

| Tester Connection     | Condition | Specified Condition |
|-----------------------|-----------|---------------------|
| N8-1 (L+) - N8-2 (L-) | Always    | Below 1 $\Omega$    |

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

(1) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

| Tester Connection       | Condition | Specified Condition    |
|-------------------------|-----------|------------------------|
| N8-1 (L+) - Body ground | Always    | 1 M $\Omega$ or higher |
| N8-2 (L-) - Body ground | Always    | 1 M $\Omega$ or higher |

(e) Check for a short in the circuit.

(1) Release the activation prevention mechanism built into connector B (See page RS-33).

(2) Measure the resistance according to the value(s) in the table below.

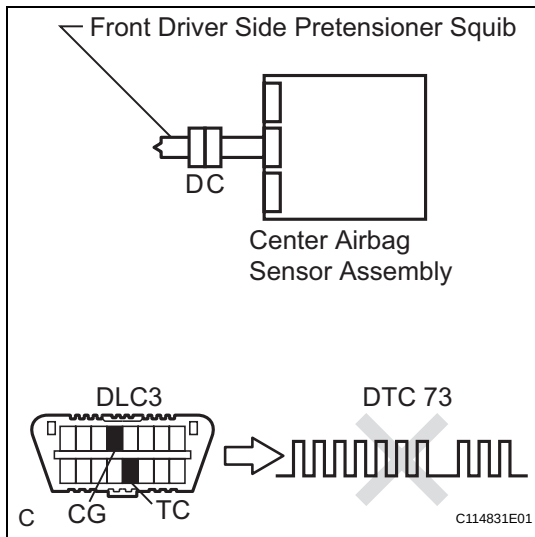
**Standard resistance**

| Tester Connection     | Condition | Specified Condition    |
|-----------------------|-----------|------------------------|
| N8-1 (L+) - N8-2 (L-) | Always    | 1 M $\Omega$ or higher |

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REPAIR OR REPLACE FLOOR WIRE

OK

**4 CHECK CENTER AIRBAG SENSOR ASSEMBLY**

- Connect the connectors to the front seat outer belt assembly LH and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page [RS-41](#)).
- Turn the power switch off.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page [RS-41](#)).

**OK:**

**DTC B1900, B1901, B1902, B1903, or 73 is not output.**

**HINT:**

Codes other than DTC B1900, B1901, B1902, B1903, or 73 may be output at this time, but they are not related to this check.

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**REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-423](#))**

OK

**USE SIMULATION METHOD TO CHECK (See page [RS-33](#))**