

RS

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

DESCRIPTION

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

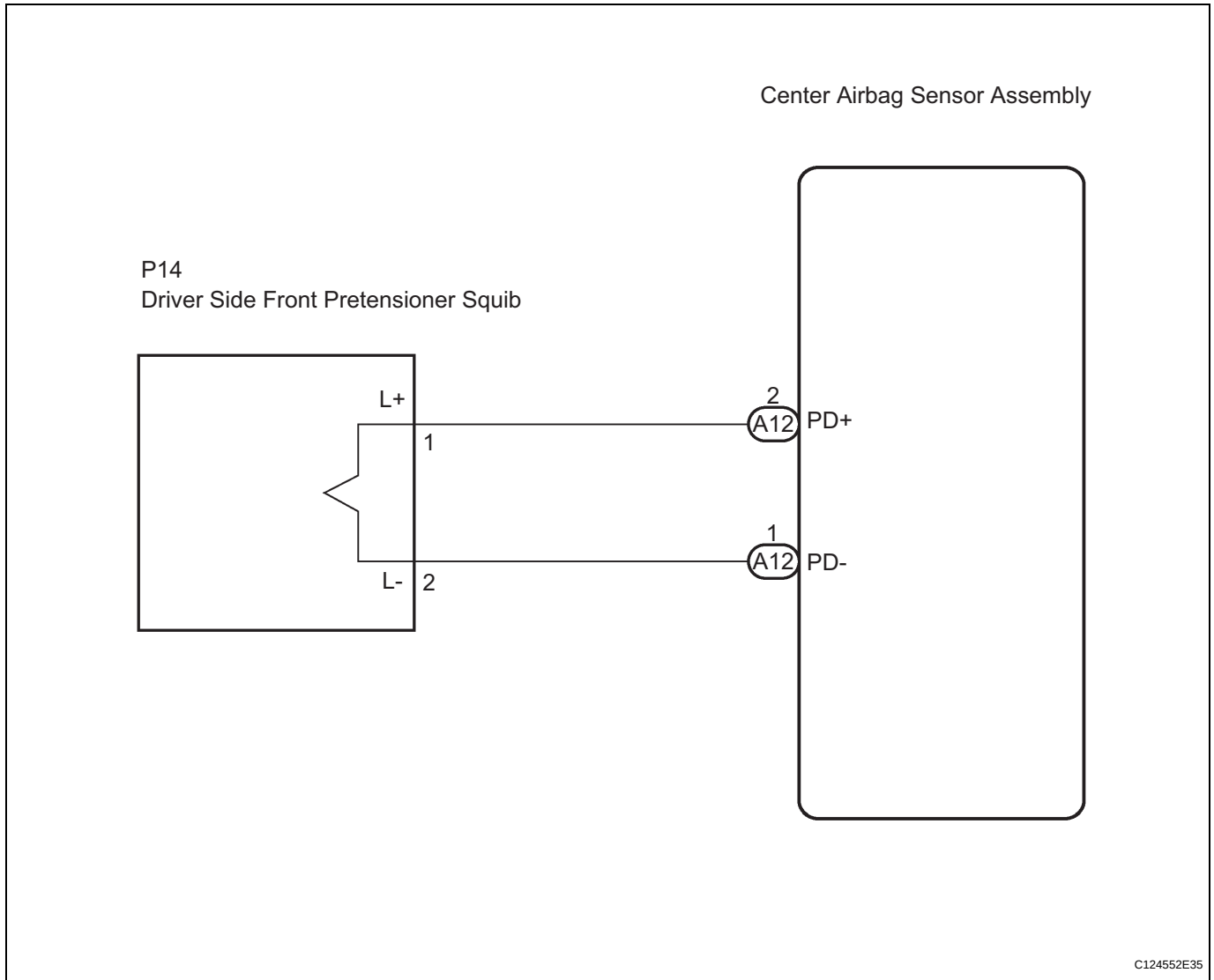
This circuit instructs the SRS to deploy when deployment conditions are met.

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

DTC No.	DTC Detection Condition	Trouble Area
B1900/73	- The center airbag sensor assembly receives a line short circuit signal 5 times in the driver side front pretensioner squib circuit during primary check. - Driver side front pretensioner squib malfunction - Center airbag sensor assembly malfunction	- Floor wire (*1) - Instrument panel wire No. 3 (*2) - Front seat outer belt assembly LH (Driver side front pretensioner squib) - Center airbag sensor assembly
B1901/73	- The center airbag sensor assembly receives an open circuit signal in the driver side front pretensioner squib circuit for 2 seconds. - Driver side front pretensioner squib malfunction - Center airbag sensor assembly malfunction	- Floor wire (*1) - Instrument panel wire No. 3 (*2) - Front seat outer belt assembly LH (Driver side front pretensioner squib) - Center airbag sensor assembly
B1902/73	- The center airbag sensor assembly receives a short circuit to ground signal in the driver side front pretensioner squib circuit for 0.5 seconds. - Driver side front pretensioner squib malfunction - Center airbag sensor assembly malfunction	- Floor wire (*1) - Instrument panel wire No. 3 (*2) - Front seat outer belt assembly LH (Driver side front pretensioner squib) - Center airbag sensor assembly
B1903/73	- The center airbag sensor assembly receives a short circuit to B+ signal in the driver side front pretensioner squib circuit for 0.5 seconds. - Driver side front pretensioner squib malfunction - Center airbag sensor assembly malfunction	- Floor wire (*1) - Instrument panel wire No. 3 (*2) - Front seat outer belt assembly LH (Driver side front pretensioner squib) - Center airbag sensor assembly

*1: with Side and curtain shield airbag

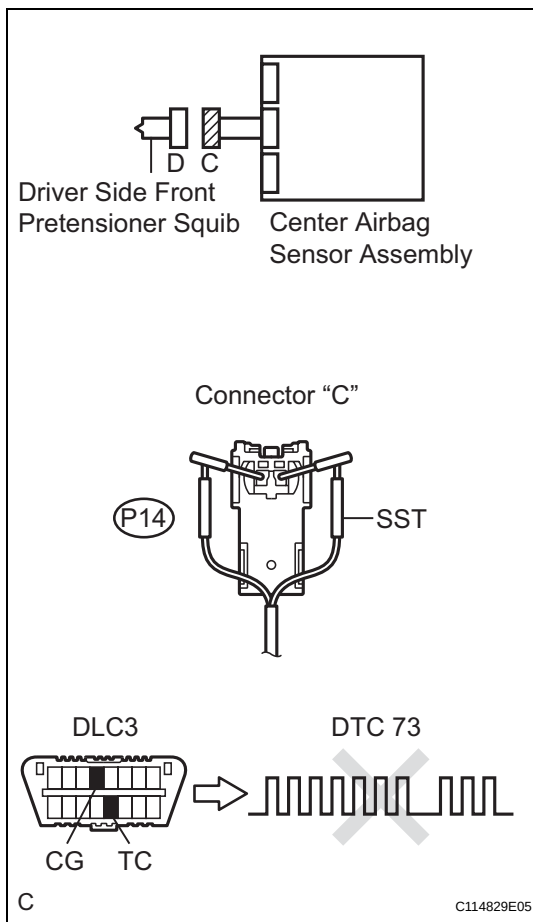
*2: without Side and curtain shield airbag

WIRING DIAGRAM**RS****INSPECTION PROCEDURE****HINT:**

- Perform the simulation method by selecting the "check mode" (signal check) with the intelligent tester (See page [RS-37](#)).
- 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-37](#)).

1**CHECK FRONT SEAT OUTER BELT ASSEMBLY LH (DRIVER SIDE FRONT PRETENSIONER SQUIB)****SST 09843-18060**

RS



- 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 front seat outer belt assembly LH.
- Connect the white wire side of SST (resistance 2.1 Ω) to connector "C".

CAUTION:

Never connect a tester to the front seat outer belt assembly LH (driver 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 straight the SST into the terminals of the connector.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - Turn the ignition switch to the ON position, and wait for at least 60 seconds.
 - Clear the DTCs stored in the memory (See page RS-34).
 - Turn the ignition switch to the LOCK position.
 - Turn the ignition switch to the ON position, and wait for at least 60 seconds.
 - Check the DTCs (See page RS-34).

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.

NG

Go to step 2

OK

REPLACE FRONT SEAT OUTER BELT ASSEMBLY LH**2****CHECK CONNECTOR**

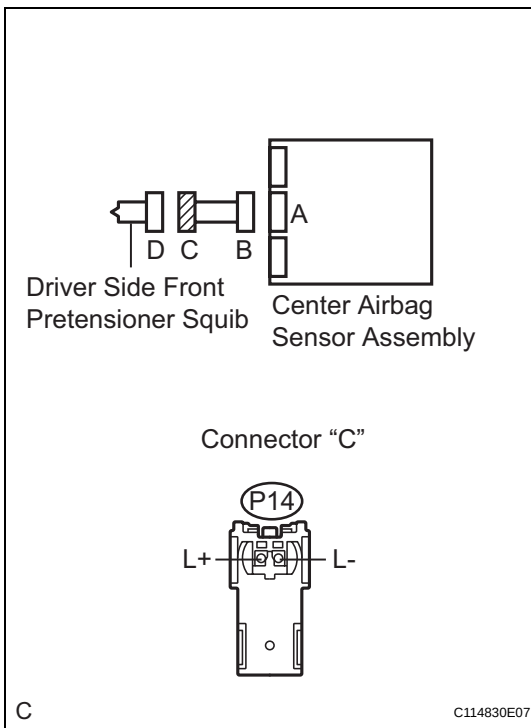
- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Disconnect the SST from connector "C".
- Check that the wire harness connector (on the front seat outer belt assembly LH side) is not damaged.

OK:

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

Result

Result	Proceed to
OK	A
NG (with Side and curtain shield airbag)	B
NG (without Side and curtain shield airbag)	C

B**REPAIR OR REPLACE FLOOR WIRE****C****REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO. 3****A****3****CHECK DRIVER SIDE FRONT PRETENSIONER SQUIB CIRCUIT**

- Disconnect the connectors from the center airbag sensor assembly.
- Check for a short to B+ in the circuit.
 - Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - Turn the ignition switch to the ON position.
 - Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester connection	Condition	Specified condition
P14-1 (L+) - Body ground	Ignition switch ON	Below 1 V
P14-2 (L-) - Body ground	Ignition switch ON	Below 1 V

Result

Result	Proceed to
OK	A
NG (with Side and curtain shield airbag)	B
NG (without Side and curtain shield airbag)	C

- Check for an open in the circuit.
 - Turn the ignition switch to the LOCK position.
 - Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester connection	Condition	Specified condition
P14-1 (L+) - P14-2 (L-)	Always	Below 1 Ω

Result

Result	Proceed to
OK	A
NG (with Side and curtain shield airbag)	B
NG (without Side and curtain shield airbag)	C

- Check for a short to ground in the circuit.
 - Measure the resistance according to the value(s) in the table below.

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Standard resistance

Tester connection	Condition	Specified condition
P14-1 (L+) - Body ground	Always	1 MΩ or higher
P14-2 (L-) - Body ground	Always	1 MΩ or higher

Result

Result	Proceed to
OK	A
NG (with Side and curtain shield airbag)	B
NG (without Side and curtain shield airbag)	C

(e) Check for a short in the circuit.

- (1) Release the activation prevention mechanism built into connector "B" (See page RS-26).
- (2) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester connection	Condition	Specified condition
P14-1 (L+) - P14-2 (L-)	Always	1 MΩ or higher

Result

Result	Proceed to
OK	A
NG (with Side and curtain shield airbag)	B
NG (without Side and curtain shield airbag)	C

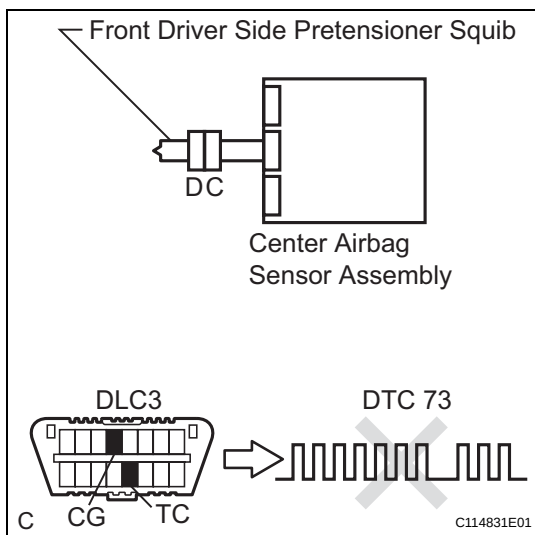
B

REPAIR OR REPLACE FLOOR WIRE

C

REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO. 3

A

4**CHECK CENTER AIRBAG SENSOR ASSEMBLY**

- (a) Connect the connectors to the front seat outer belt assembly LH and 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 the 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 the DTCs (See page RS-34).

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.

NG

REPLACE CENTER AIRBAG SENSOR
ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

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