RS

DTC	**B1905/74**	**Short in Front Passenger Side Pretensioner Squib Circuit**

DTC	**B1906/74**	**Open in Front Passenger Side Pretensioner Squib Circuit**

DTC	**B1907/74**	**Short to GND in Front Passenger Side Pretensioner Squib Circuit**

DTC	**B1908/74**	**Short to B+ in Front Passenger Side Front Pretensioner Squib Circuit**

DESCRIPTION

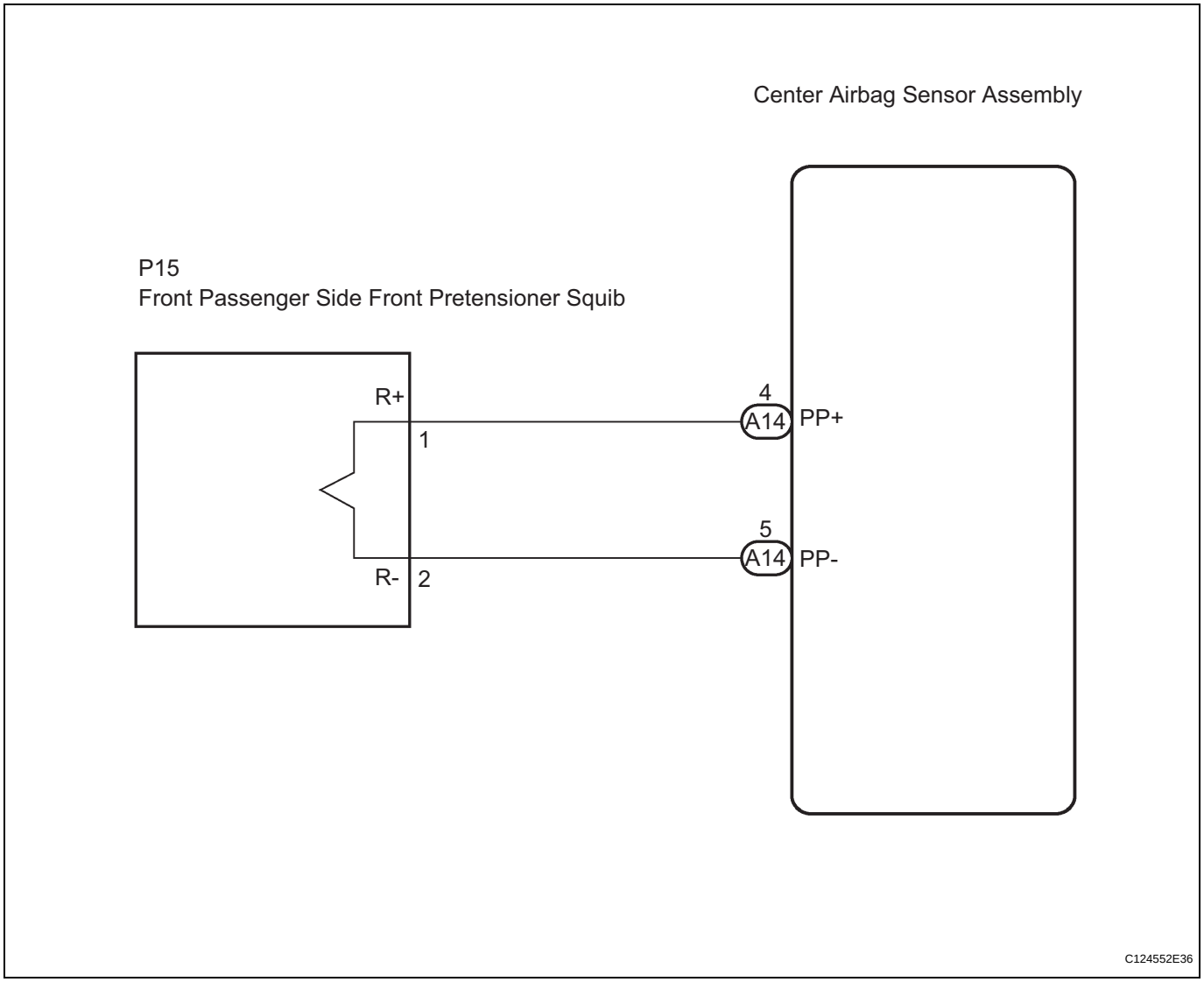
The front passenger side front pretensioner squib circuit consists of the center airbag sensor assembly and the front seat outer belt assembly RH.
This circuit instructs the SRS to deploy when deployment conditions are met.
These DTCs are recorded when a malfunction is detected in the front passenger side front pretensioner squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1905/74	• The center airbag sensor assembly receives a line short circuit signal 5 times in the front passenger side front pretensioner squib circuit during primary check. • Front passenger side front pretensioner squib malfunction • Center airbag sensor assembly malfunction	• Floor wire (*1) • Instrument panel wire No. 3 (*2) • Front seat outer belt assembly RH (Front passenger side front pretensioner squib) • Center airbag sensor assembly
B1906/74	• The center airbag sensor assembly receives an open circuit signal in the front passenger side front pretensioner squib circuit for 2 seconds. • Front passenger side front pretensioner squib malfunction • Center airbag sensor assembly malfunction	• Floor wire (*1) • Instrument panel wire No. 3 (*2) • Front seat outer belt assembly RH (Front passenger side front pretensioner squib) • Center airbag sensor assembly
B1907/74	• The center airbag sensor assembly receives a short circuit to ground signal in the front passenger side front pretensioner squib circuit for 0.5 seconds. • Front passenger side front pretensioner squib malfunction • Center airbag sensor assembly malfunction	• Floor wire (*1) • Instrument panel wire No. 3 (*2) • Front seat outer belt assembly RH (Front passenger side front pretensioner squib) • Center airbag sensor assembly
B1908/74	• The center airbag sensor assembly receives a short circuit to B+ signal in the front passenger side front pretensioner squib circuit for 0.5 seconds. • Front passenger side front pretensioner squib malfunction • Center airbag sensor assembly malfunction	• Floor wire (*1) • Instrument panel wire No. 3 (*2) • Front seat outer belt assembly RH (Front passenger side front pretensioner squib) • Center airbag sensor assembly

*1: with Side and curtain shield airbag
*2: without Side and curtain shield airbag

RS

WIRING DIAGRAM



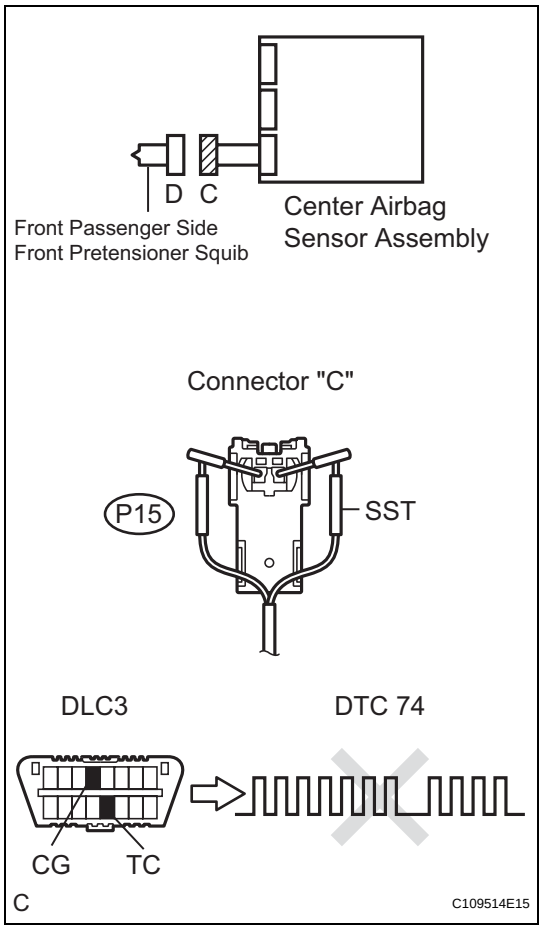
INSPECTION PROCEDURE

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).

RS

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



(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 front seat outer belt assembly RH.
(d) 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 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 straight the SST into the terminals of the connector.**

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(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 the DTCs (See page RS-34).
OK:
DTC B1905, B1906, B1907, B1908 or 74 is not output.
HINT:
Codes other than DTC B1905, B1906, B1907, B1908 and 74 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 RH

2	CHECK CONNECTOR

(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) Check that the wire harness connector (on the front seat outer belt assembly RH side) is not damaged.

OK:

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

Result

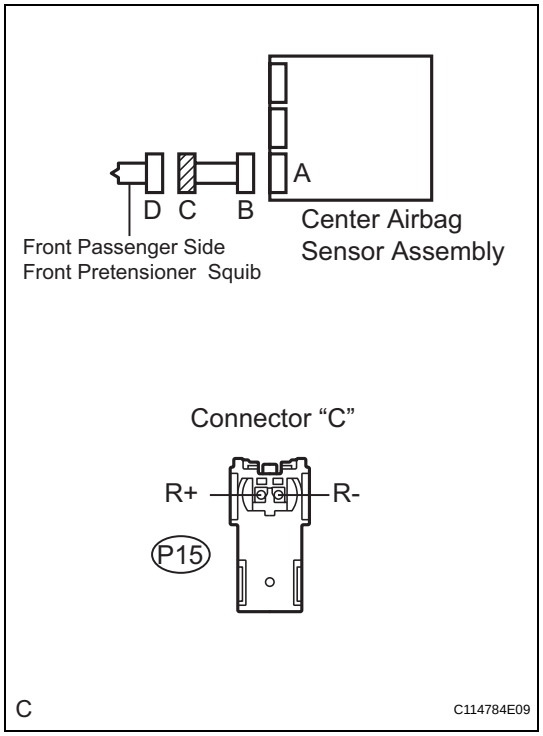
Result	Proceed to
OK	A
NG (with Side and curtain shield airbag)	B
NG (without Side and curtain shield airbag)	C

B → **REPAIR OR REPLACE FLOOR WIRE**

C → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE NO. 3**

A

3 CHECK FRONT PASSENGER SIDE FRONT 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 ignition switch to the ON position.

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

Standard voltage

Tester connection	Condition	Specified condition
P15-1 (R+) - Body ground	Ignition switch ON	Below 1 V
P15-2 (R-) - 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

(c) Check for an open in the circuit.

(1) Turn the ignition switch to the LOCK position.

(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
P15-1 (R+) - P15-2 (R-)	Always	Below 1 Ω

Result

Result	Proceed to
OK	A

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

(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
P15-1 (R+) - Body ground	Always	1 MΩ or higher
P15-2 (R-) - 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
P15-1 (R+) - P15-2 (R-)	Always	1 MΩ or higher

Result

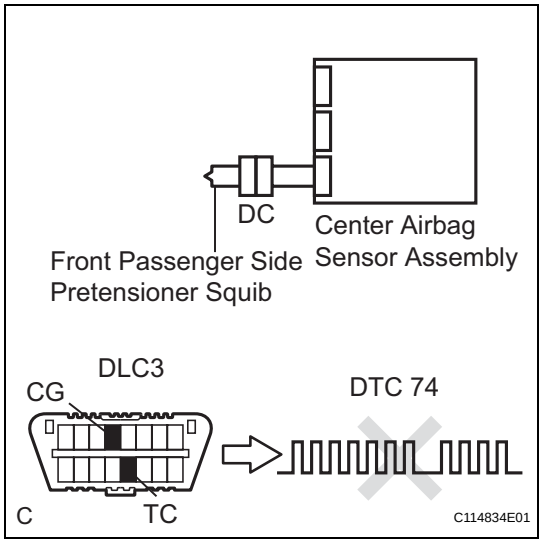
Result	Proceed to
OK	A
NG (with Side and curtain shield airbag)	B
NG (without Side and curtain shield airbag)	C

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 RH 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 B1905, B1906, B1907, B1908 or 74 is not output.
HINT:
Codes other than DTC B1905, B1906, B1907, B1908 and 74 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

RS