DTC	B1905/74	SHORT IN P/T SQUIB (P SEAT SIDE) CIRCUIT

DTC	B1906/74	OPEN IN P/T SQUIB (P SEAT SIDE) CIRCUIT

DTC	B1907/74	SHORT IN P/T SQUIB (P SEAT SIDE) CIRCUIT (TO GROUND)

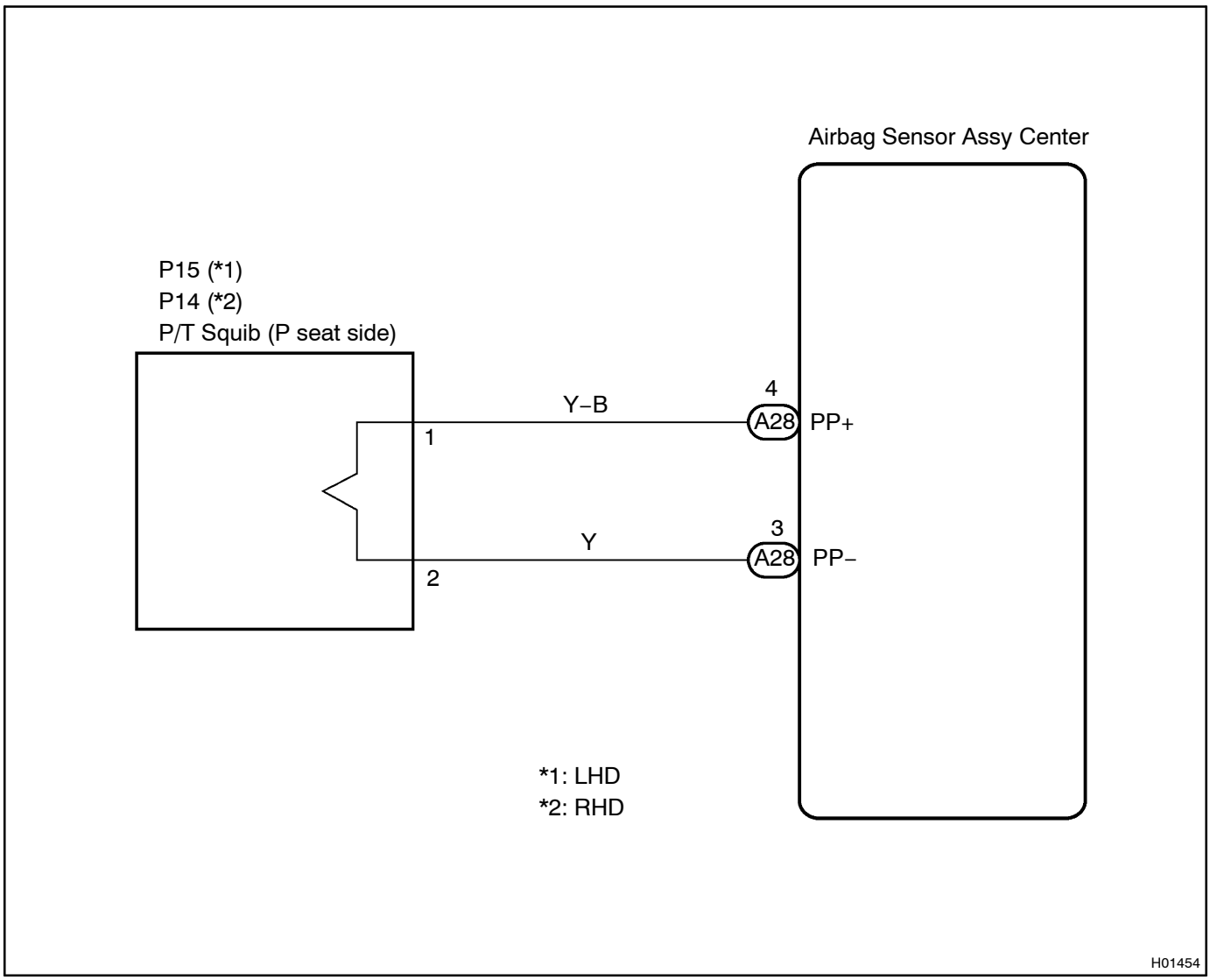
DTC	B1908/74	SHORT IN P/T SQUIB (P SEAT SIDE) CIRCUIT (TO B+)

CIRCUIT DESCRIPTION

The P/T squib (P seat side) circuit consists of the airbag sensor assy center and the front seat outer belt assy RH (LHD) or front seat outer belt assy LH (RHD).
This circuit instructs the SRS to deploy when deployment conditions are met.
These DTCs are recorded when a malfunction is detected in the P/T squib (P seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1905/74	• The airbag sensor assy center receives a line short circuit signal 5 times in the P/T squib (P seat side) circuit during primary check. • P/T squib (P seat side) malfunction • Airbag sensor assy center malfunction	• Front seat outer belt assy RH (P/T squib (P seat side)) (LHD) • Front seat outer belt assy LH (P/T squib (P seat side)) (RHD) • Airbag sensor assy center • Floor wire No.2
B1906/74	• The airbag sensor assy center receives an open circuit signal in the P/T squib (P seat side) circuit for 2 seconds. • P/T squib (P seat side) malfunction • Airbag sensor assy center malfunction	• Front seat outer belt assy RH (P/T squib (P seat side)) (LHD) • Front seat outer belt assy LH (P/T squib (P seat side)) (RHD) • Airbag sensor assy center • Floor wire No.2
B1907/74	• The airbag sensor assy center receives a short circuit to ground signal in the P/T squib (P seat side) circuit for 0.5 second. • P/T squib (P seat side) malfunction • Airbag sensor assy center malfunction	• Front seat outer belt assy RH (P/T squib (P seat side)) (LHD) • Front seat outer belt assy LH (P/T squib (P seat side)) (RHD) • Airbag sensor assy center • Floor wire No.2
B1908/74	• The airbag sensor assy center receives a short circuit to B+ signal in the P/T squib (P seat side) circuit for 0.5 second. • P/T squib (P seat side) malfunction • Airbag sensor assy center malfunction	• Front seat outer belt assy RH (P/T squib (P seat side)) (LHD) • Front seat outer belt assy LH (P/T squib (P seat side)) (RHD) • Airbag sensor assy center • Floor wire No.2

WIRING DIAGRAM



INSPECTION PROCEDURE

CAUTION:

Be sure to perform the following procedures before troubleshooting to avoid unexpected airbag deployment.

(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 airbag sensor assy center.
(d) Disconnect the connectors from the horn button assy.
(e) Disconnect the connectors from the front passenger airbag assy.
(f) Disconnect the connector from the front seat airbag assy LH.
(g) Disconnect the connector from the front seat airbag assy RH.
(h) w/ Curtain shield airbag:
Disconnect the connector from the curtain shield airbag assy LH.
(i) w/ Curtain shield airbag:
Disconnect the connector from the curtain shield airbag assy RH.
(j) Disconnect the connector from the front seat outer belt assy LH.
(k) Disconnect the connector from the front seat outer belt assy RH.

1	CHECK READ METHOD OF DTC

(a) Proceed to each step according to DTC readings.
(1) If using the intelligent tester II (read the 5–digit of DTC):
Using the intelligent tester II, check the DTCs (see page 05–16).
Result:

DTC B1905 is output.	A
DTC B1906 is output.	B
DTC B1907 is output.	C
DTC B1908 is output.	D

(2) If not using the intelligent tester II (read the 2–digit of DTC):
Check the DTCs (see page 05–16).
Result:

DTC 74 is output.	E

B → **Go to step 4**

C → **Go to step 5**

D → **Go to step 6**

E → **Go to step 7**

A

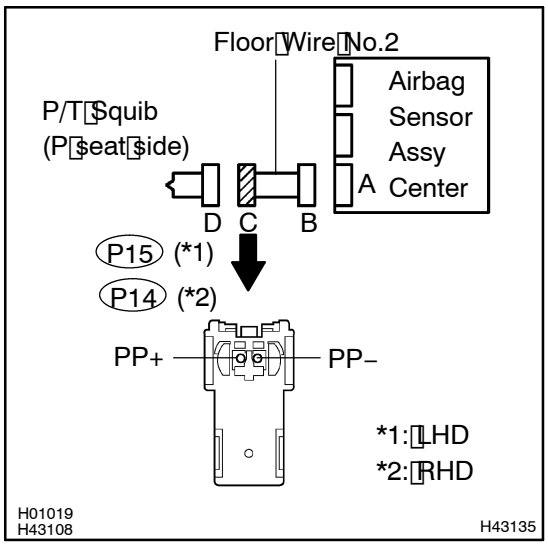
2	CHECK CONNECTOR

(a) Check that the floor wire No.2 connector (on the P/T squib (P seat side) 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 NO.2**

OK

3	CHECK FLOOR WIRE NO.2 (SHORT)



(a) Release the activation prevention mechanism built into connector "B" (see page 05–10).
(b) Measure the resistance according to the value(s) in the table below.
Standard:

Tester connection	Condition	Specified condition
P15–1 (PP+) – P15–2 (PP–) (*1)	Always	1 MΩ or Higher
P14–1 (PP+) – P14–2 (PP–) (*2)	Always	1 MΩ or Higher

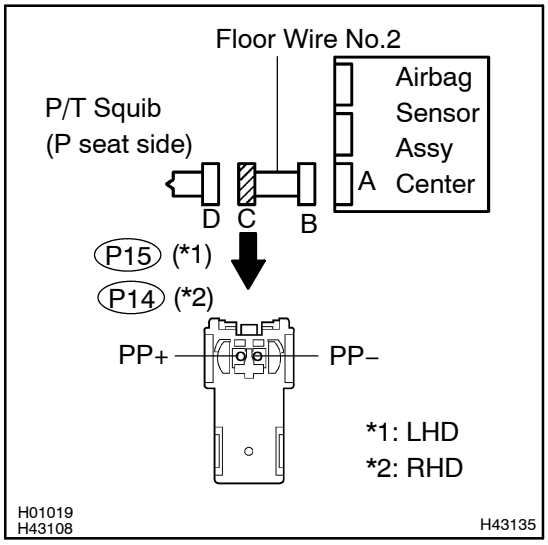
*1: LHD
*2: RHD

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

GO TO STEP 10

4 CHECK FLOOR WIRE NO.2 (OPEN)



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

Standard:

Tester connection	Condition	Specified condition
P15–1 (PP+) – P15–2 (PP–) (*1)	Always	Below 1 Ω
P14–1 (PP+) – P14–2 (PP–) (*2)	Always	Below 1 Ω

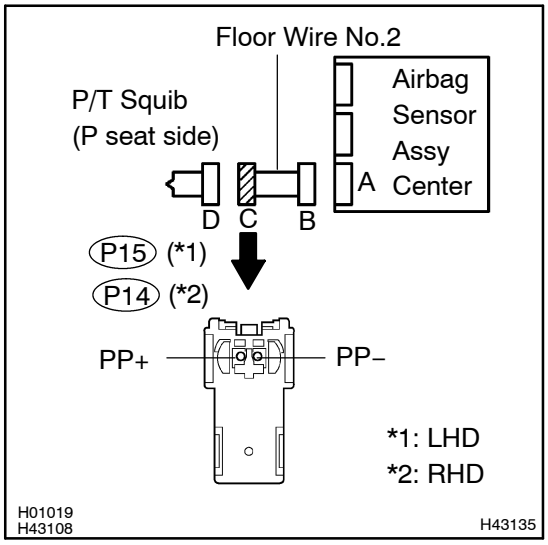
*1: LHD
*2: RHD

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

GO TO STEP 11

5 CHECK FLOOR WIRE NO.2 (TO GROUND)



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

Standard:

Tester connection	Condition	Specified condition
P15–1 (PP+) – Body ground (*1)	Always	1 MΩ or Higher
P15–2 (PP–) – Body ground (*1)	Always	1 MΩ or Higher
P14–1 (PP+) – Body ground (*2)	Always	1 MΩ or Higher
P14–2 (PP–) – Body ground (*2)	Always	1 MΩ or Higher

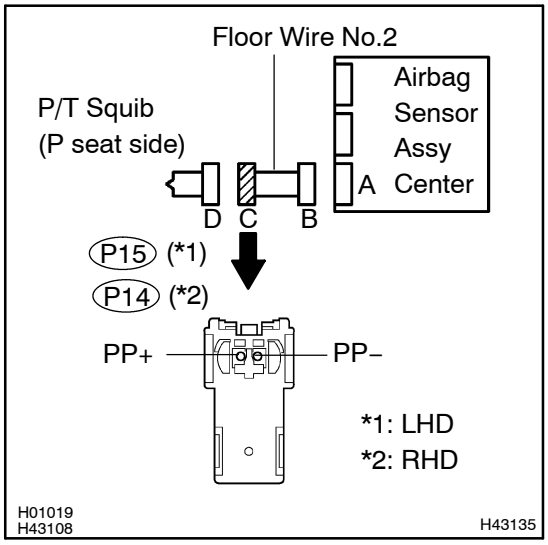
*1: LHD
*2: RHD

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

GO TO STEP 11

6	CHECK FLOOR WIRE NO.2 (TO B+)



(a) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(b) Turn the ignition switch to the ON position.
(c) Measure the voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
P15–1 (PP+) – Body ground (*1)	Ignition switch ON	Below 1 V
P15–2 (PP–) – Body ground (*1)	Ignition switch ON	Below 1 V
P14–1 (PP+) – Body ground (*2)	Ignition switch ON	Below 1 V
P14–1 (PP–) – Body ground (*2)	Ignition switch ON	Below 1 V

*1: LHD
*2: RHD

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

GO TO STEP 11

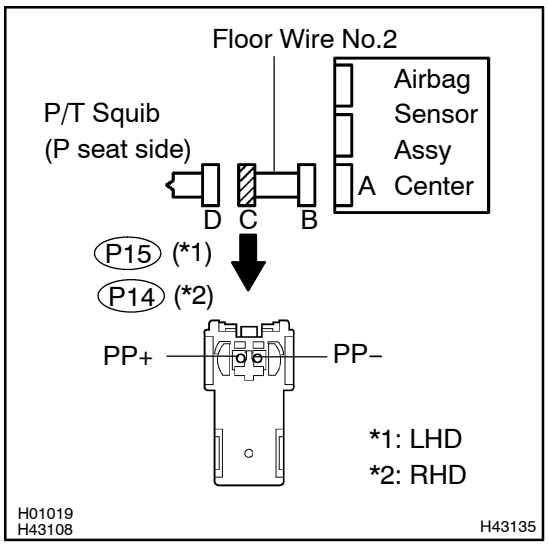
7	CHECK CONNECTOR

(a) Check that the floor wire No.2 connector (on the P/T squib (P seat side) 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 NO.2**

OK

8	CHECK FLOOR WIRE NO.2 (P/T SQUIB (P SEAT SIDE) CIRCUIT)



(a) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(b) Turn the ignition switch to the ON position.
(c) Measure the voltage according to the value(s) in the table below.
Standard:

Tester connection	Condition	Specified condition
P15–1 (PP+) – Body ground (*1)	Ignition switch ON	Below 1 V
P15–2 (PP–) – Body ground (*1)	Ignition switch ON	Below 1 V
P14–1 (PP+) – Body ground (*2)	Ignition switch ON	Below 1 V
P14–2 (PP–) – Body ground (*2)	Ignition switch ON	Below 1 V

*1: LHD
*2: RHD

(d) Turn the ignition switch to the LOCK position.
(e) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
(f) Measure the resistance according to the value(s) in the table below.
Standard:

Tester connection	Condition	Specified condition
P15–1 (PP+) – P15–2 (PP–) (*1)	Always	Below 1 Ω
P15–1 (PP+) – Body ground (*1)	Always	1 MΩ or Higher
P15–2 (PP–) – Body ground (*1)	Always	1 MΩ or Higher
P14–1 (PP+) – P14–2 (PP–) (*2)	Always	Below 1 Ω
P14–1 (PP+) – Body ground (*2)	Always	1 MΩ or Higher
P14–2 (PP–) – Body ground (*2)	Always	1 MΩ or Higher

*1: LHD
*2: RHD

(g) Release the activation prevention mechanism built into connector "B" (see page 05–10).

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

Standard:

Tester connection	Condition	Specified condition
P15–1 (PP+) – P15–2 (PP–) (*1)	Always	1 MΩ or Higher
P14–1 (PP+) – P14–2 (PP–) (*2)	Always	1 MΩ or Higher

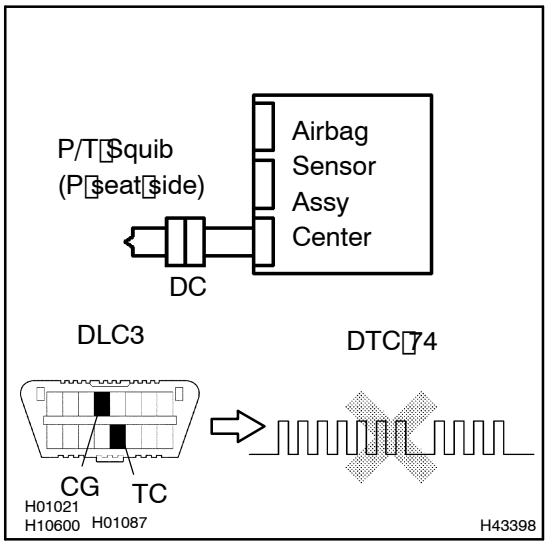
*1: LHD

*2: RHD

NG → **REPAIR OR REPLACE FLOOR WIRE NO.2**

OK

9 REPLACE P/T SQUIB (P SEAT SIDE)



(a) LHD:
Replace the front seat outer belt assy RH (see Pub. No. RM915E, page 61–6).

(b) RHD:
Replace the front seat outer belt assy LH (see Pub. No. RM915E, page 61–6).

HINT:
Perform the inspection using parts from a normal vehicle if possible.

(c) Connect the connectors to the airbag sensor assy center.

(d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.

(e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.

(f) Clear the DTCs stored in memory (see page 05–15).

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

(h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.

(i) Check the DTCs (see page 05–15).

OK:

DTC 74 is not output.

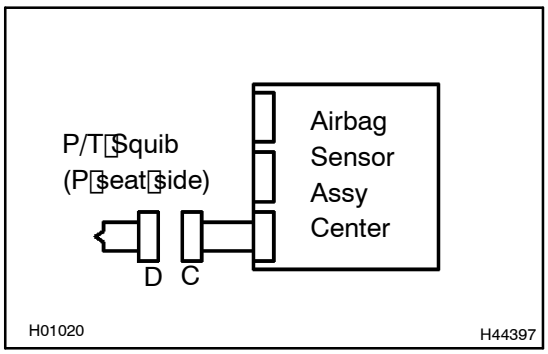
HINT:
Codes other than code 74 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER (SEE PAGE 60–40)**

OK

END

10	CHECK AIR BAG SENSOR ASSY CENTER



(a) Connect the connectors to the airbag sensor assy center.
(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 memory (see page 05–16).
(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 05–16).

OK:

DTC B1905 is not output.

HINT:

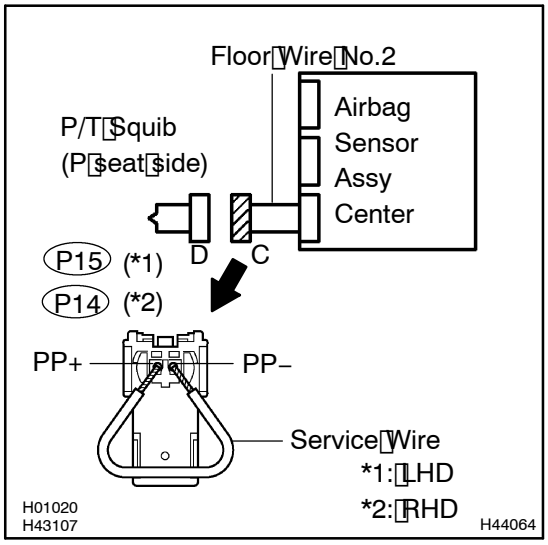
Codes other than code B1905 may be output at this time, but they are not related to this check.

NG → **REPLACE AIR BAG SENSOR ASSY CENTER (SEE PAGE 60–40)**

OK

GO TO STEP 12

11	CHECK AIR BAG SENSOR ASSY CENTER



(a) From the step 6:
Turn the ignition switch to the LOCK position.

(b) From the step 6:
Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.

(c) Connect the connectors to the airbag sensor assy center.

(d) LHD:
Using a service wire, connect P15–1 (PP+) and P15–2 (PP–) of connector ”C”.

(e) RHD:
Using a service wire, connect P14–1 (PP+) and P14–2 (PP–) of connector ”C”.

NOTICE:

- **Twist the end of the service wire in order to insert it into the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

(f) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.

(g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.

(h) Clear the DTCs stored in memory (see page 05–16).

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

(j) Turn the ignition switch to the ON position, and wait for at least 60 seconds.

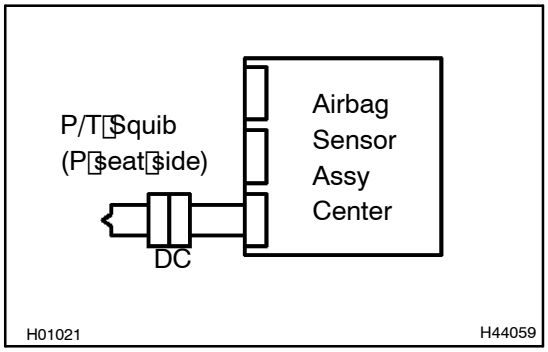
(k) Check the DTCs (see page 05–16).
OK:
DTC B1906, B1907 or B1908 is not output.

HINT:
Codes other than code B1906, B1907 and B1908 may be output at this time, but they are not related to this check.

NG	REPLACE AIR BAG SENSOR ASSY CENTER (SEE PAGE 60–40)

OK

12	CHECK P/T SQUIB (P SEAT SIDE)



(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) From the step 11:
Disconnect the service wire from connector "C".
(d) LHD:
Connect the connector to the front seat outer belt assy RH.
(e) RHD:
Connect the connector to the front seat outer belt assy LH.
(f) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(h) Clear the DTCs stored in memory (see page 05–16).
(i) Turn the ignition switch to the LOCK position.
(j) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(k) Check the DTCs (see page 05–16).
OK:
DTC B1905, B1906, B1907 or B1908 is not output.

HINT:
Codes other than code B1905, B1906, B1907 and B1908 may be output at this time, but they are not related to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSY RH (LHD) (SEE PUB. NO. RM915E, PAGE 61–6)**

NG → **REPLACE FRONT SEAT OUTER BELT ASSY LH (RHD) (SEE PUB. NO. RM915E, PAGE 61–6)**

OK

USE SIMULATION METHOD TO CHECK (SEE PAGE 05–10)

HINT:
- Perform the simulation method by selecting the check mode with the intelligent tester II (see page 05–19).
- After selecting the check mode, perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page 05–19).