DTC	B1900/73	SHORT IN P/T SQUIB (D SEAT SIDE) CIRCUIT

DTC	B1901/73	OPEN IN P/T SQUIB (D SEAT SIDE) CIRCUIT

DTC	B1902/73	SHORT IN P/T SQUIB (D SEAT SIDE) CIRCUIT (TO GROUND)

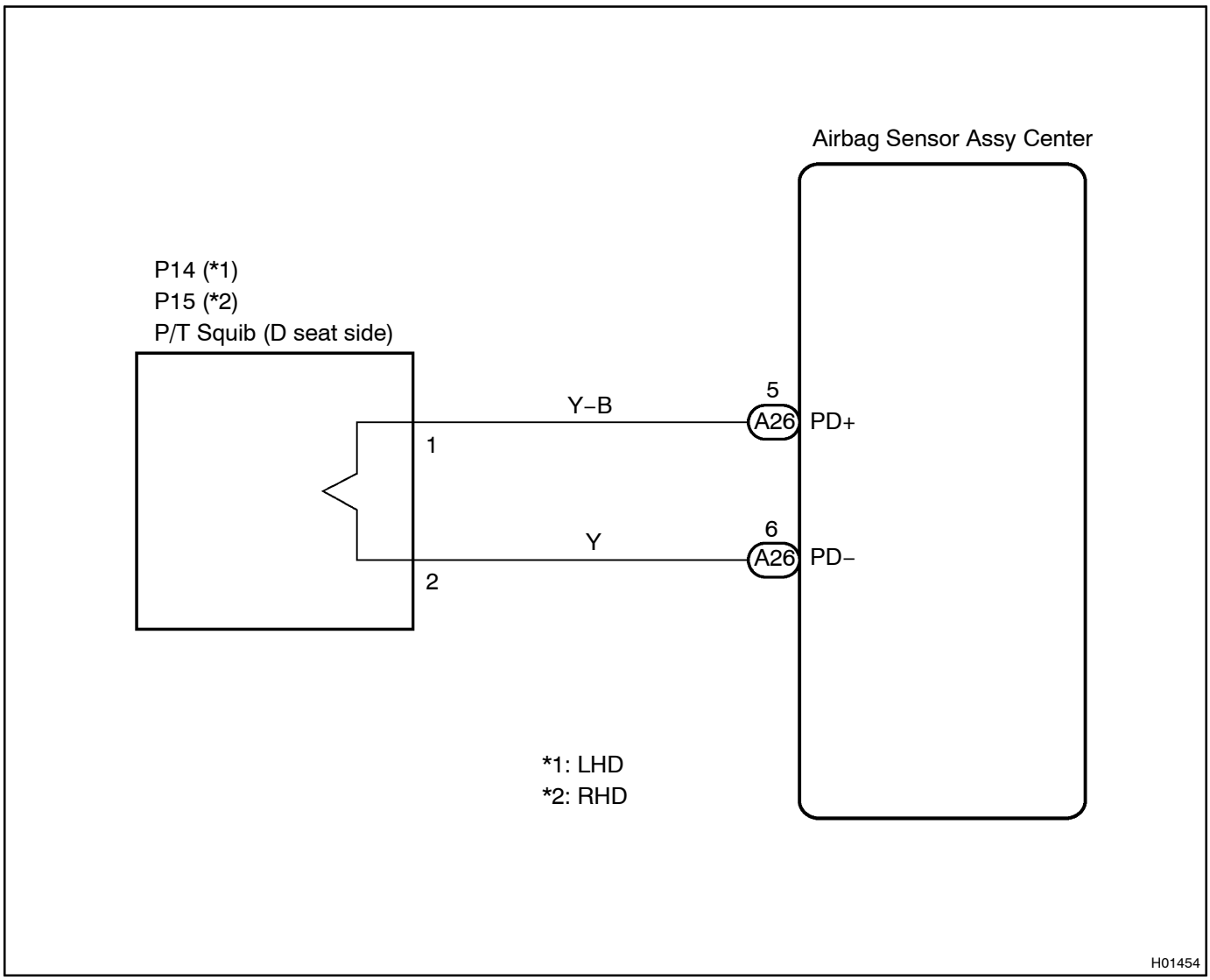
DTC	B1903/73	SHORT IN P/T SQUIB (D SEAT SIDE) CIRCUIT (TO B+)

CIRCUIT DESCRIPTION

The P/T squib (D seat side) circuit consists of the airbag sensor assy center and the front seat outer belt assy LH (LHD) or front seat outer belt assy RH (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 (D seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1900/73	• The airbag sensor assy center receives a line short circuit signal 5 times in the P/T squib (D seat side) circuit during primary check. • P/T squib (D seat side) malfunction • Airbag sensor assy center malfunction	• Front seat outer belt assy LH (P/T squib (D seat side)) (LHD) • Front seat outer belt assy RH (P/T squib (D seat side)) (RHD) • Airbag sensor assy center • Floor wire
B1901/73	• The airbag sensor assy center receives an open circuit signal in the P/T squib (D seat side) circuit for 2 seconds. • P/T squib (D seat side) malfunction • Airbag sensor assy center malfunction	• Front seat outer belt assy LH (P/T squib (D seat side)) (LHD) • Front seat outer belt assy RH (P/T squib (D seat side)) (RHD) • Airbag sensor assy center • Floor wire
B1902/73	• The airbag sensor assy center receives a short circuit to ground signal in the P/T squib (D seat side) circuit for 0.5 second. • P/T squib (D seat side) malfunction • Airbag sensor assy center malfunction	• Front seat outer belt assy LH (P/T squib (D seat side)) (LHD) • Front seat outer belt assy RH (P/T squib (D seat side)) (RHD) • Airbag sensor assy center • Floor wire
B1903/73	• The airbag sensor assy center receives a short circuit to B+ signal in the P/T squib (D seat side) circuit for 0.5 second. • P/T squib (D seat side) malfunction • Airbag sensor assy center malfunction	• Front seat outer belt assy LH (P/T squib (D seat side)) (LHD) • Front seat outer belt assy RH (P/T squib (D seat side)) (RHD) • Airbag sensor assy center • Floor wire

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 B1900 is output.	A
DTC B1901 is output.	B
DTC B1902 is output.	C
DTC B1903 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 73 is output.	E

B → **Go to step 4**

C → **Go to step 5**

D → **Go to step 6**

E → **Go to step 7**

A

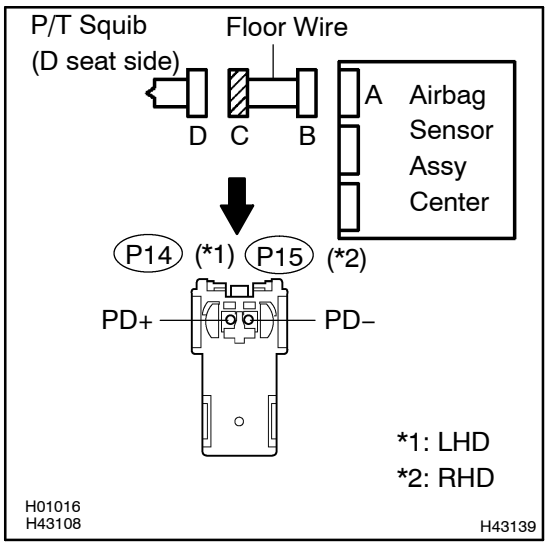
2	CHECK CONNECTOR

(a) Check that the floor wire connector (on the P/T squib (D 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**

OK

3	CHECK FLOOR WIRE (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
P14–1 (PD+) – P14–2 (PD–) (*1)	Always	1 MΩ or Higher
P15–1 (PD+) – P15–2 (PD–) (*2)	Always	1 MΩ or Higher

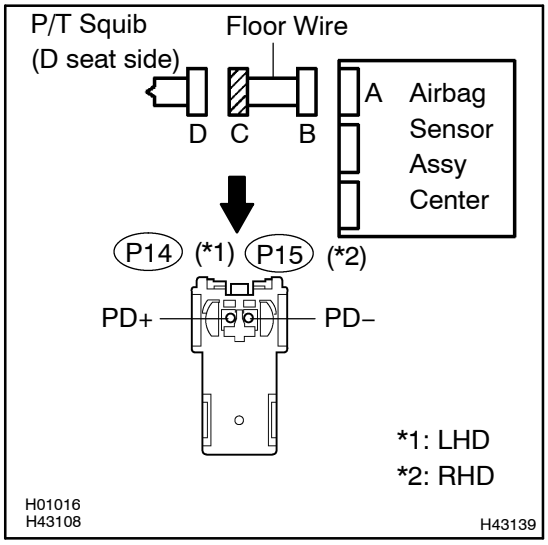
*1: LHD
*2: RHD

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

GO TO STEP 10

4 CHECK FLOOR WIRE (OPEN)



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

Standard:

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

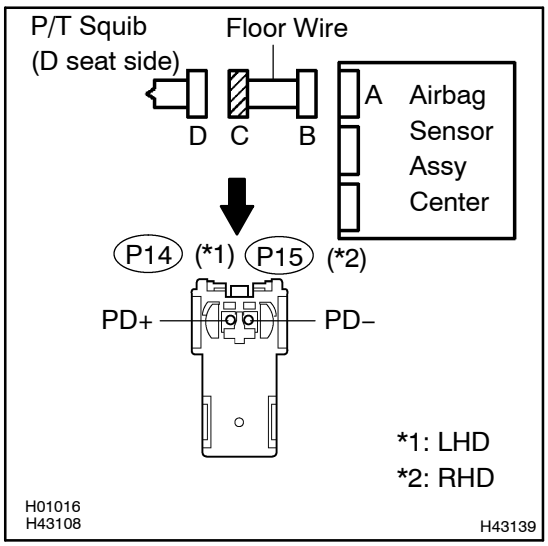
*1: LHD
*2: RHD

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

GO TO STEP 11

5 CHECK FLOOR WIRE (TO GROUND)



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

Standard:

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

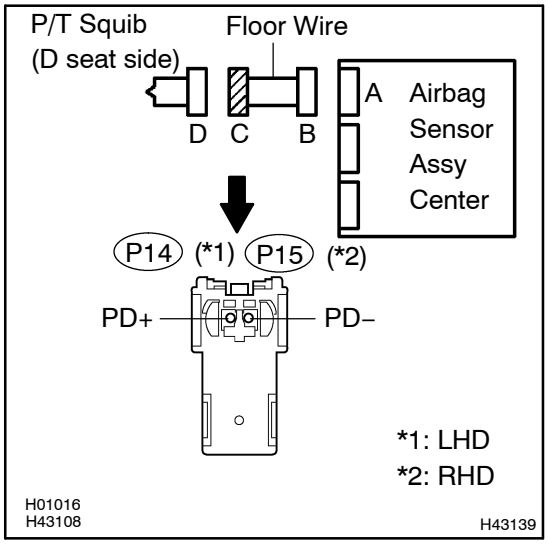
*1: LHD
*2: RHD

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

GO TO STEP 11

6	CHECK FLOOR WIRE (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
P14–1 (PD+) – Body ground (*1)	Ignition switch ON	Below 1 V
P14–2 (PD–) – Body ground (*1)	Ignition switch ON	Below 1 V
P15–1 (PD+) – Body ground (*2)	Ignition switch ON	Below 1 V
P15–2 (PD–) – Body ground (*2)	Ignition switch ON	Below 1 V

*1: LHD
*2: RHD

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

GO TO STEP 11

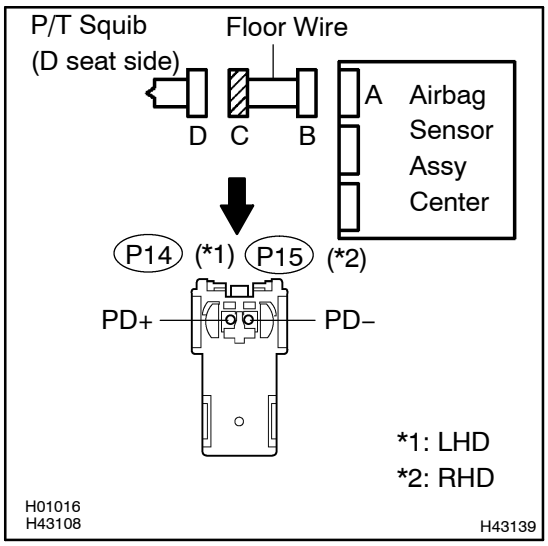
7	CHECK CONNECTOR

(a) Check that the floor wire connector (on the P/T squib (D 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**

OK

8	CHECK FLOOR WIRE (P/T SQUIB (D 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
P14–1 (PD+) – Body ground (*1)	Ignition switch ON	Below 1 V
P14–2 (PD–) – Body ground (*2)	Ignition switch ON	Below 1 V
P15–1 (PD+) – Body ground (*2)	Ignition switch ON	Below 1 V
P15–2 (PD–) – 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
P14–1 (PD+) – P14–2 (PD–) (*1)	Always	Below 1 Ω
P15–1 (PD+) – P15–2 (PD–) (*2)	Always	Below 1 Ω
P14–1 (PD+) – Body ground (*1)	Always	1 MΩ or Higher
P14–2 (PD–) – Body ground (*1)	Always	1 MΩ or Higher
P15–1 (PD+) – Body ground (*2)	Always	1 MΩ or Higher
P15–2 (PD–) – 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
P14–1 (PD+) – P14–2 (PD–) (*1)	Always	1 MΩ or Higher
P15–1 (PD+) – P15–2 (PD–) (*2)	Always	1 MΩ or Higher

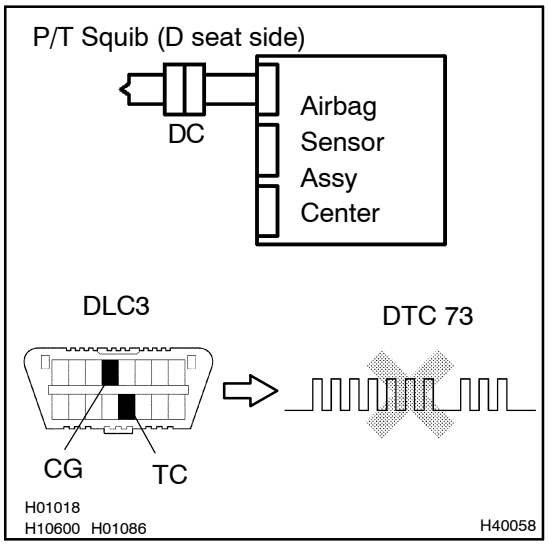
*1: LHD

*2: RHD

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

9 REPLACE P/T SQUIB (D SEAT SIDE)



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

(b) RHD:
Replace the front seat outer belt assy RH (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 05–16).

(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 05–16).

OK:

DTC 73 is not output.

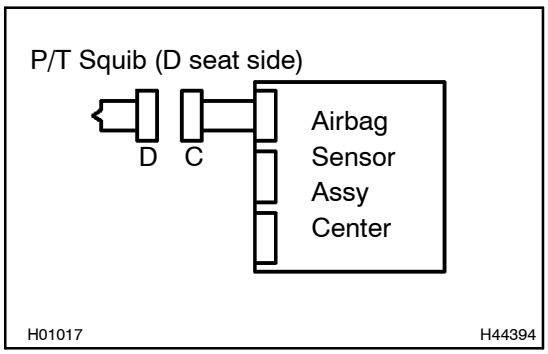
HINT:
Codes other than code 73 may be output at this time, but they are not related to this check.

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 B1900 is not output.

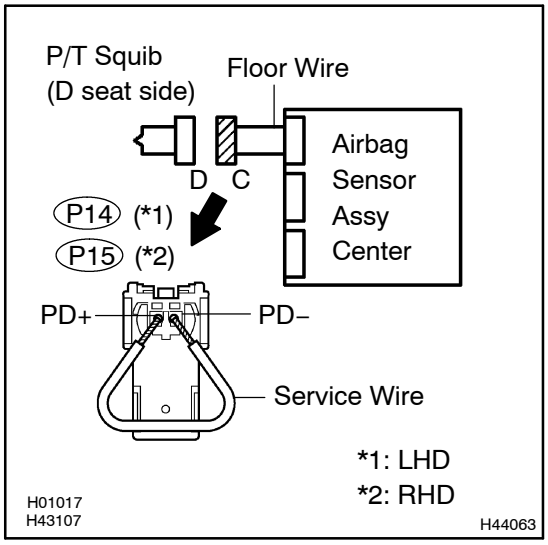
HINT:
Codes other than code B1900 may be output at this time, but they are not related to this check.

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 P14–1 (PD+) and P14–2 (PD–) of connector "C".

(e) RHD:
Using a service wire, connect P15–1 (PD+) and P15–2 (PD–) 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.

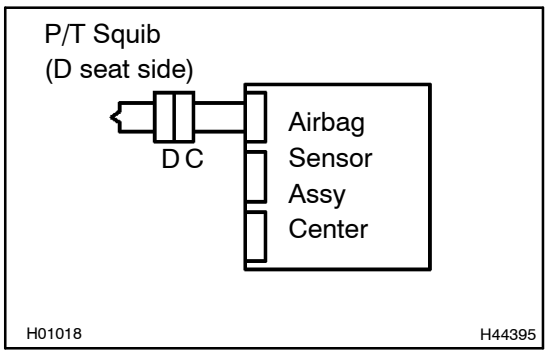
(k) Check the DTCs (see page 05–16).
OK:
DTC B1901, B1902 or B1903 is not output.

HINT:
Codes other than code B1901, B1902 and B1903 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 (D 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 LH.
(e) RHD:
Connect the connector to the front seat outer belt assy RH.
(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 B1900, B1901, B1902 or B1903 is not output.

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

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

NG → **REPLACE FRONT SEAT OUTER BELT ASSY RH (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).