

DTC	B1771	PASSENGER SIDE BUCKLE SWITCH CIRCUIT MALFUNCTION
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CIRCUIT DESCRIPTION

The passenger side buckle switch circuit consists of the occupant classification ECU and the front seat inner belt assy RH (buckle switch RH).

DTC B1771 is recorded when a malfunction is detected in the passenger side buckle switch circuit.

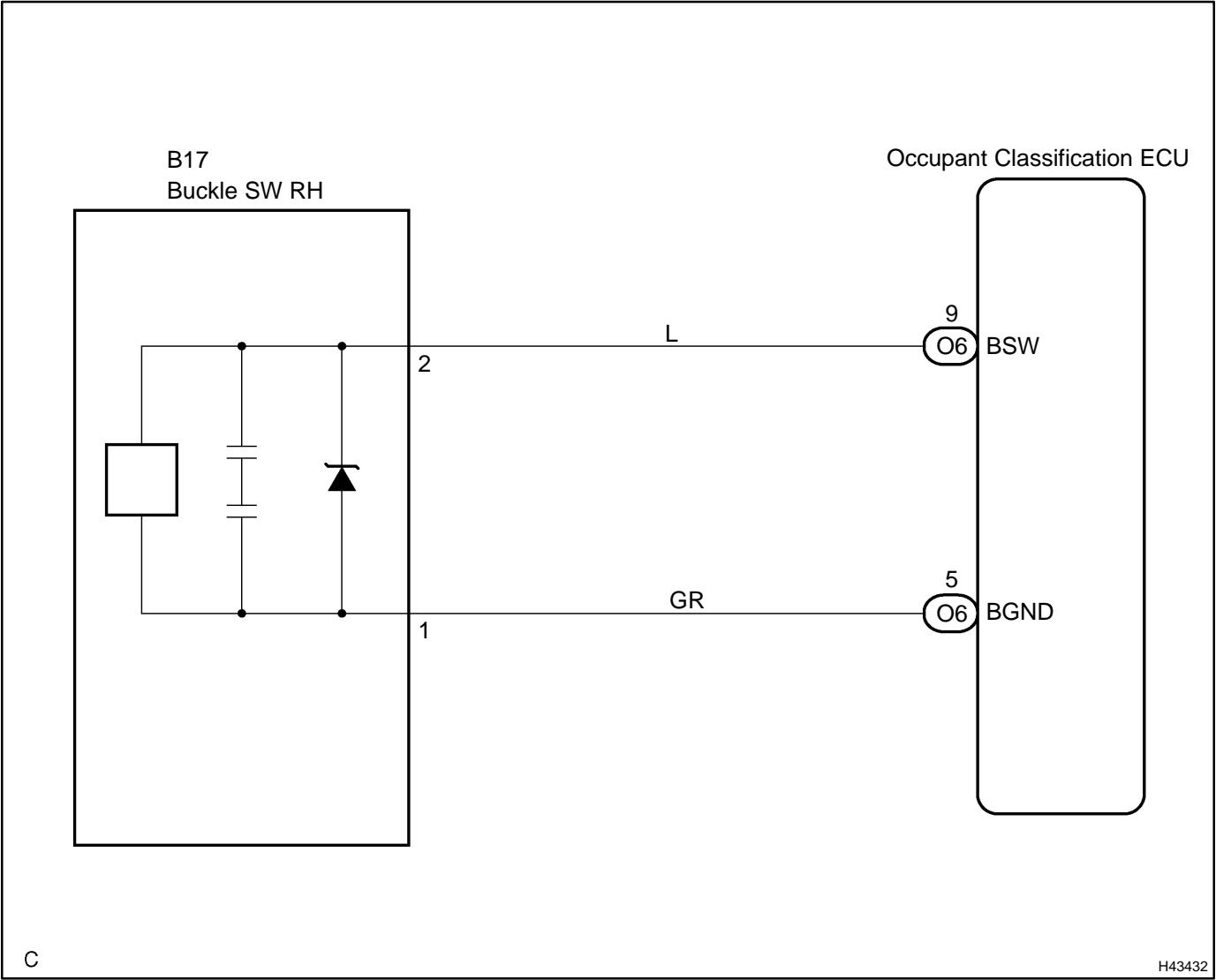
Troubleshoot DTC B1771 first when the DTC B1771 and B1795 are output simultaneously.

DTC No.	DTC Detecting Condition	Trouble Area
B1771	<ul style="list-style-type: none"> When the occupant classification ECU receives a line short signal, open signal, short to ground signal or B+ short signal in the passenger side buckle switch circuit for 2 seconds. Passenger side buckle switch malfunction Occupant classification ECU malfunction 	<ul style="list-style-type: none"> Front seat inner belt assy RH (Buckle switch RH) Front seat wire RH Occupant classification ECU

HINT:

- When DTC B1150/23 is detected as a result of troubleshooting for the supplemental restraint system, perform troubleshooting for DTC B1771 of the occupant classification system.
- Use the hand-held tester to check the DTC of the occupant classification ECU, otherwise the DTC cannot be read.

WIRING DIAGRAM



C

H43432

INSPECTION PROCEDURE

HINT:

- If troubleshooting (wire harness inspection) is difficult to perform, remove the front RH seat assy installation bolts to see the under surface of seat cushion.
- In the above case, hold the seat so that it does not fall down. Holding the seat for a long period of time may cause a problem, such as seat rail deformation. Hold the seat only as necessary.

1 CHECK DTC

- (a) Turn the ignition switch to the ON position.
(b) Clear the DTCs stored in memory (see page 05-1215).

HINT:

- First clear DTCs stored in the occupant classification ECU memory and then in the airbag sensor assy center memory.
 - Use the hand-held tester to clear the DTC of the occupant classification ECU, otherwise the DTC cannot be cleared.
- (c) Turn the ignition switch to the LOCK position.
(d) Turn the ignition switch to the ON position.
(e) Using the hand-held tester, check the DTCs (see page 05-1215).

OK:

DTC B1771 is not output.

HINT:

Codes other than code B1771 may be output at this time, but they are not related to this check.

NG

Go to step 2

OK

USE SIMULATION METHOD TO CHECK (SEE PAGE 05-1207)

2 CHECK CONNECTION OF CONNECTORS

- (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) Check that the connectors are properly connected to the occupant classification ECU and the front seat inner belt assy RH.

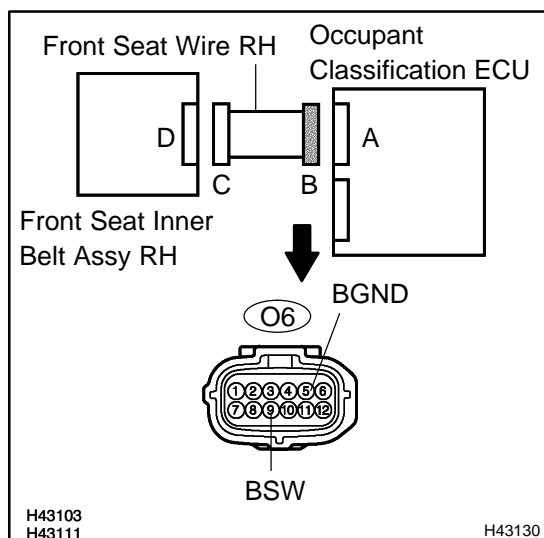
OK:

The connectors are connected.

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CONNECT CONNECTORS, THEN GO TO STEP 1

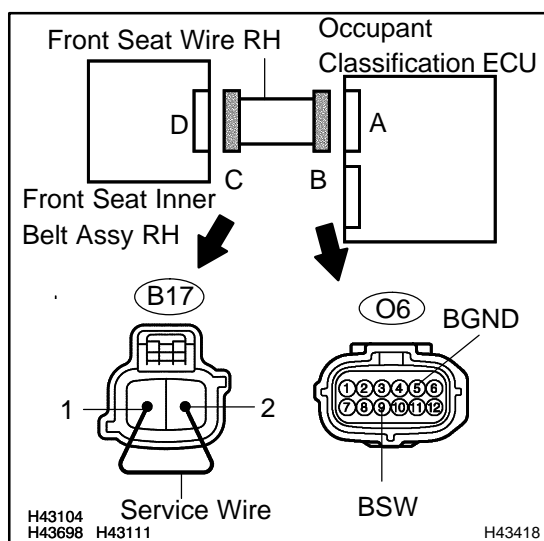
OK

3 CHECK FRONT SEAT WIRE RH (TO B+)

- Disconnect the connectors from the occupant classification ECU and the front seat inner belt assy RH.
- Connect the negative (-) terminal cable to the battery.
- Turn the ignition switch to the ON position.
- Measure the voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
O6-9 (BSW) - Body ground	Ignition switch ON	Below 1 V
O6-5 (BGND) - Body ground	Ignition switch ON	Below 1 V

NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK****4 CHECK FRONT SEAT WIRE RH (OPEN)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Using a service wire, connect B17-1 and B17-2 of connector "C".

NOTICE:

Do not forcibly insert a service wire into the terminals of the connector when connecting.

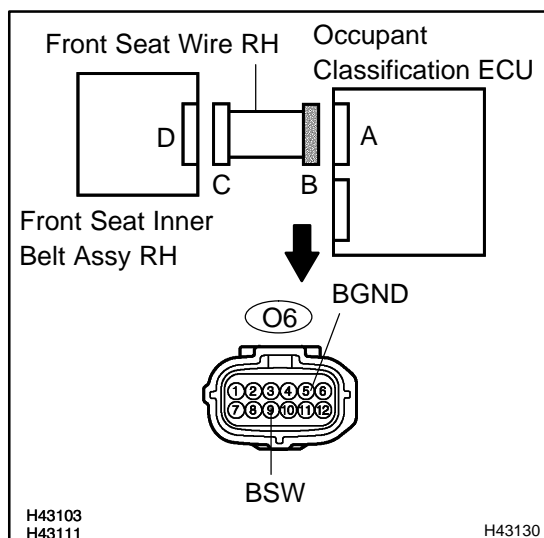
- Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
O6-9 (BSW) - O6-5 (BGND)	Always	Below 1 Ω

NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK**

5 CHECK FRONT SEAT WIRE RH (SHORT)



- Disconnect the service wire from connector "C".
- Measure the resistance according to the value(s) in the table below.

Standard:

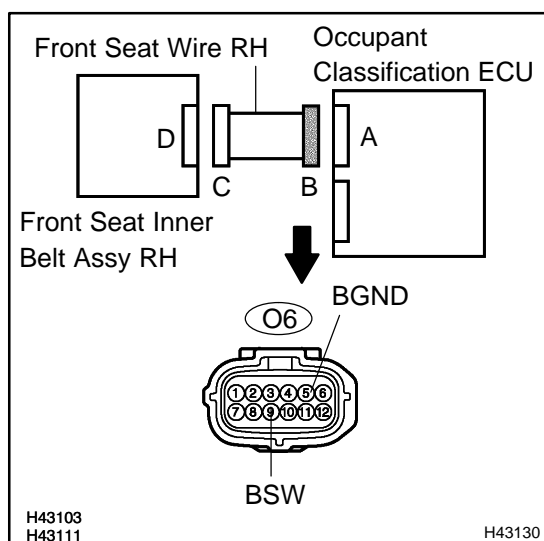
Tester connection	Condition	Specified condition
O6-9 (BSW) - O6-5 (BGND)	Always	1 MΩ or Higher

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REPAIR OR REPLACE FRONT SEAT WIRE RH

OK

6 CHECK FRONT SEAT WIRE RH (TO GROUND)



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

Standard:

Tester connection	Condition	Specified condition
O6-9 (BSW) - Body ground	Always	1 MΩ or Higher
O6-5 (BGND) - Body ground	Always	1 MΩ or Higher

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REPAIR OR REPLACE FRONT SEAT WIRE RH

OK

7 RECHECK DTC

- (a) Connect the connectors to the occupant classification ECU and the front seat inner belt assy RH.
- (b) Connect the negative (-) terminal cable to the battery.
- (c) Turn the ignition switch to the ON position.
- (d) Clear the DTCs stored in memory (see page 05-1215).

HINT:

- First clear DTCs stored in the occupant classification ECU memory and then in the airbag sensor assy center memory.
- Use the hand-held tester to clear the DTC of the occupant classification ECU, otherwise the DTC cannot be cleared.
- (e) Turn the ignition switch to the LOCK position.
- (f) Turn the ignition switch to the ON position.
- (g) Using the hand-held tester, check the DTCs (see page 05-1215).

OK:**DTC B1771 is not output.**

HINT:

Codes other than code B1771 may be output at this time, but they are not related to this check.

NG**Go to step 8****OK****USE SIMULATION METHOD TO CHECK (SEE PAGE 05-1207)****8 REPLACE FRONT SEAT INNER BELT ASSY RH**

- (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) Replace the front seat inner belt assy RH (see page 72-1 1, 72-19).
- (d) Connect the negative (-) terminal cable to the battery.
- (e) Turn the ignition switch to the ON position.
- (f) Clear the DTCs stored in memory (see page 05-1215).

HINT:

- First clear DTCs stored in the occupant classification ECU memory and then in the airbag sensor assy center memory.
- Use the hand-held tester to clear the DTC of the occupant classification ECU, otherwise the DTC cannot be cleared.
- (g) Turn the ignition switch to the LOCK position.
- (h) Turn the ignition switch to the ON position.
- (i) Using the hand-held tester, check the DTCs (see page 05-1215).

OK:**DTC B1771 is not output.**

HINT:

Codes other than code B1771 may be output at this time, but they are not related to this check.

NG**Go to step 9****OK****END**

9	REPLACE OCCUPANT CLASSIFICATION ECU
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- (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) Replace the occupant classification ECU (see page [60-64](#)).



10	PERFORM ZERO POINT CALIBRATION
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- (a) Using the hand-held tester, perform "Zero point calibration" (see page [05-1203](#)).

OK:

The "COMPLETED" is displayed.



11	PERFORM SENSITIVITY CHECK
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- (a) Using the hand-held tester, perform "Sensitivity check" (see page [05-1203](#)).

Standard value: 27 to 33 kg (59.52 to 72.75 lb)



END
