DTC	B1794	Open in Occupant Classification ECU Battery Positive Line

DESCRIPTION

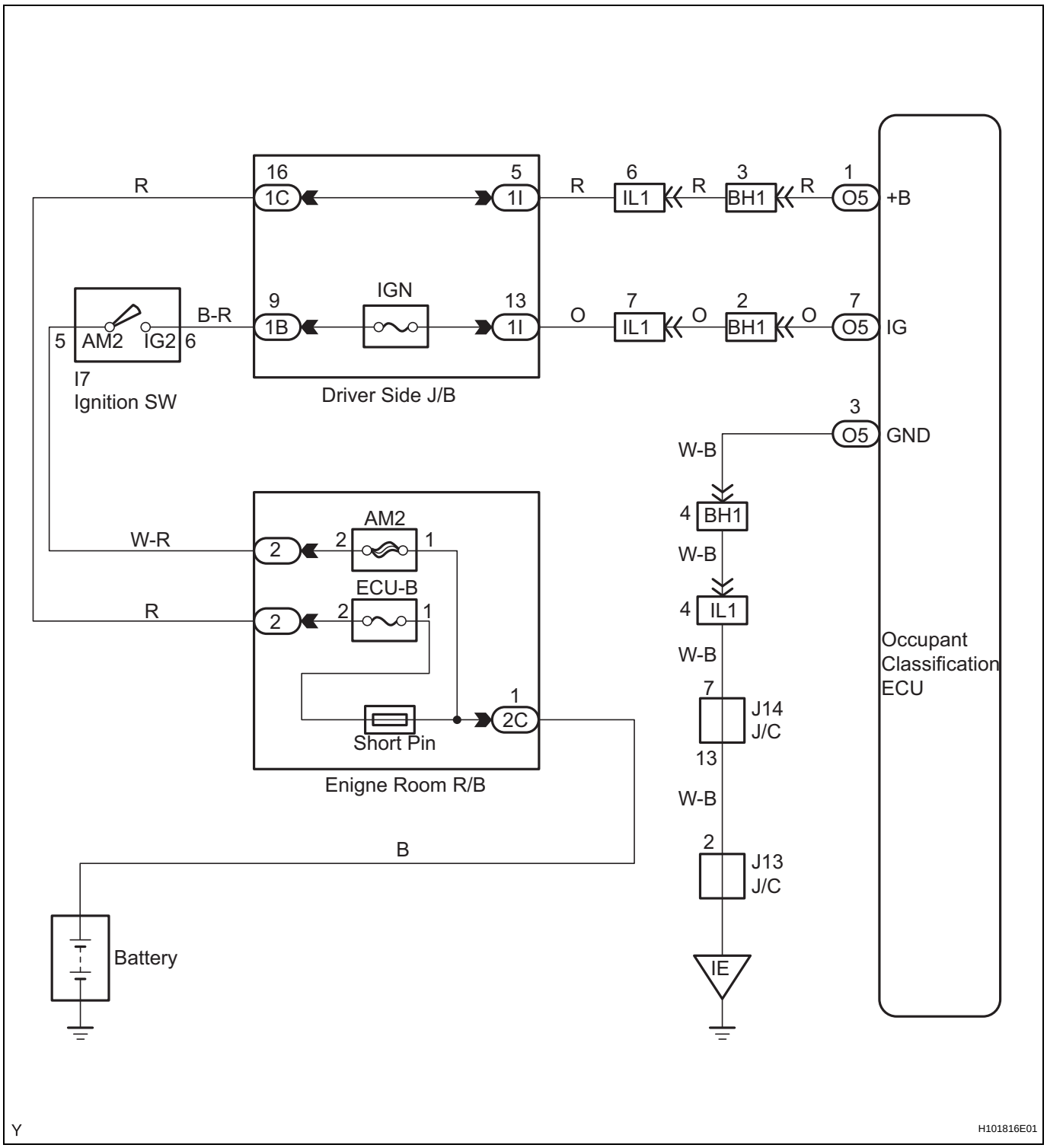
DTC B1794 is set when a malfunction is detected in the occupant classification ECU.

DTC No.	DTC Detections Conditions	Trouble Areas
B1794	• Occupant classification ECU circuit malfunction • Occupant classification ECU malfunction • The occupant classification ECU receives a short circuit to ground signal in the passenger side buckle switch circuit for 2 seconds	• Wire harness • Occupant classification ECU

HINT:

- When DTC B1650/32 is detected as a result of troubleshooting the supplemental restraint system, perform troubleshooting for DTC B1794 of the occupant classification system.
- Use the intelligent tester to check for DTCs of the occupant classification ECU, otherwise the DTCs cannot be read.

WIRING DIAGRAM



1	CHECK DTC

(a) Turn the ignition switch to the ON position.
(b) Clear any DTCs stored in the memory (See page RS-365).

RS

HINT:
- First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly.
- Use the intelligent tester to clear the DTCs of the occupant classification ECU, otherwise the DTCs cannot be cleared.

(c) Turn the ignition switch to the LOCK position, and wait for at least 10 seconds.
(d) Turn the ignition switch to the ON position.
(e) Using the intelligent tester, check for DTCs of the occupant classification ECU (See page RS-365).
OK:
DTC B1794 is not output.

HINT:
DTCs other than B1794 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

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 center airbag sensor assembly and the occupant classification ECU.
OK:
The connectors are properly connected.

NG → **CONNECT CONNECTORS**

OK

3	CHECK CONNECTORS

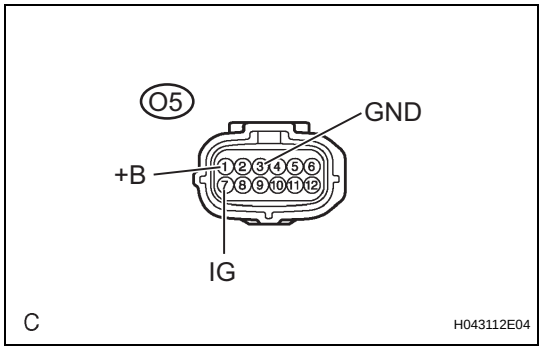
(a) Check that the connectors (on the occupant classification ECU side) are not damaged (See page IN-34).
OK:
The connectors are not deformed or damaged.

NG → **REPAIR OR REPLACE WIRE HARNESS**

OK

RS

4 CHECK WIRE HARNESS (SOURCE VOLTAGE)



(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 O5 connector from the occupant classification ECU.
(d) Connect the negative (-) terminal cable to the battery.
(e) Turn the ignition switch to the ON position.
(f) Measure the voltage and resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
O5-3 (GND) - Body ground	Always	Below 1 Ω

Standard voltage

Tester Connection	Condition	Specified Condition
O5-1 (+B) - Body ground	Ignition switch ON	10 to 14 V
O5-7 (IG) - Body ground	Ignition switch ON	10 to 14 V

NG → **REPAIR OR REPLACE WIRE HARNESS OR BATTERY**

OK

5 CHECK DTC

(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) Connect the connectors to the occupant classification ECU.
(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.
(f) Clear any DTCs stored in the memory (See page RS-365).

HINT:

- First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly.
- Use the intelligent tester to clear the DTCs of the occupant classification ECU, otherwise the DTCs cannot be cleared.

(g) Turn the ignition switch to the LOCK position, and wait for at least 10 seconds.
(h) Turn the ignition switch to the ON position.
(i) Using the intelligent tester, check for DTCs of the occupant classification ECU (See page RS-365).

OK:

DTC B1794 is not output.

HINT:
DTCs other than B1794 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

6	REPLACE OCCUPANT CLASSIFICATION ECU

(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 RS-631).

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

NEXT

7	PERFORM ZERO POINT CALIBRATION

(a) Connect the negative (-) terminal cable to the battery.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch to the ON position.
(d) Using the intelligent tester, perform the zero point calibration (See page RS-357).
OK:
COMPLETED is displayed on the tester.

NEXT

8	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (See page RS-357).
Standard :
27 to 33 kg (59.52 to 72.75 lb)

RS

NEXT

END