

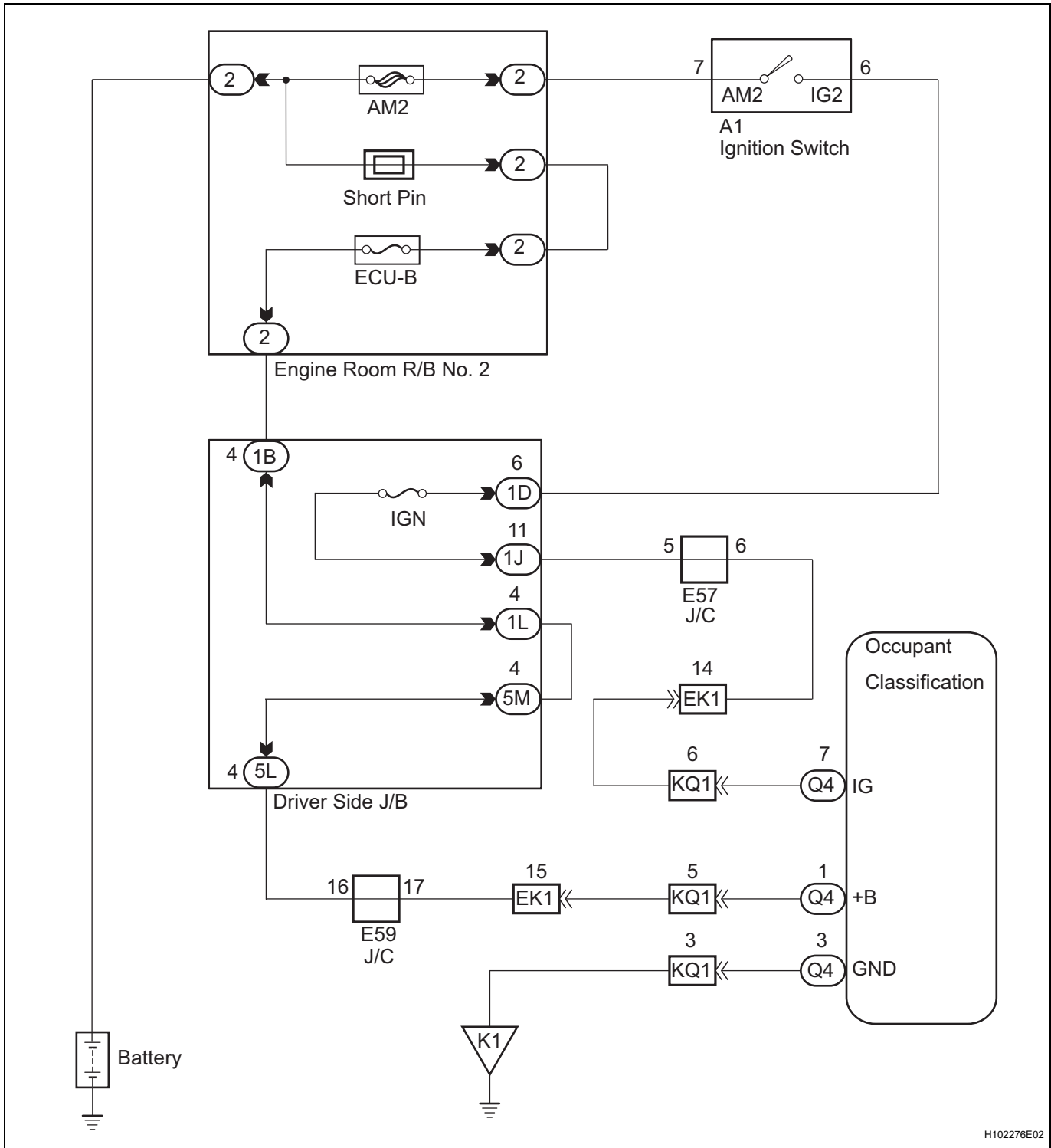
DTC	B1794	Open in Occupant Classification ECU Battery Positive Line
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DESCRIPTION

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

DTC No.	DTC Detecting Conditions	Trouble Areas
B1794	<ul style="list-style-type: none">• Occupant classification ECU circuit malfunction• Occupant classification ECU malfunction• Occupant classification ECU detects short circuit to ground signal in passenger side buckle switch circuit for 2 seconds	<ul style="list-style-type: none">• Wire harness• Occupant classification ECU

WIRING DIAGRAM



H102276E02

INSPECTION PROCEDURE

1	CHECK DTC
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- (a) Turn the ignition switch to the on position.
- (b) Clear the DTCs stored in the memory (See page [RS-254](#)).

HINT:

First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly.

- (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) Check the DTCs (See page RS-254).

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

RS

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.

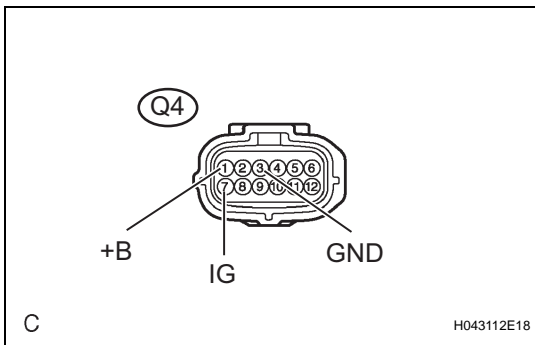
OK:

The connectors are properly connected.

NG → **CONNECT CONNECTORS**

OK

3 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 Q4 connector from the occupant classification ECU.
- (d) Connect the negative (-) terminal cable to the battery.
- (e) Measure the voltage.

Standard voltage

Tester Connection	Condition	Specified Condition
Q4-1 (+B) - Body ground	Always	11 to 14 V
Q4-7 (IG) - Body ground	Ignition switch on	11 to 14 V

- (f) Measure the resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
Q4-3 (GND) - Body ground	Always	Below 1 Ω

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REPAIR OR REPLACE HARNESS OR CONNECTOR (BATTERY - OCCUPANT CLASSIFICATION ECU)

OK

4 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.
- (e) Turn the ignition switch to the on position.
- (f) Clear any DTCs stored in the memory (See page [RS-254](#)).

HINT:

First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly.

- (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-254](#)).

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

5 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-412](#)).

HINT:

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

NEXT

6 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-246](#)).

OK:

COMPLETED is displayed on the tester.

NEXT

7

PERFORM SENSITIVITY CHECK

- (a) Using the intelligent tester, perform the sensitivity check (See page [RS-246](#)).

- (1) Confirm that nothing is placed on the passenger seat.
- (2) Confirm that the beginning sensor reading is within the standard range.

Standard range:

-3.2 to 3.2 kg (-7 to 7 lb)

- (3) Place a 30 kg (66.14 lb) weight (e.g. a lead mass) onto the front passenger seat.
- (4) Confirm that the sensitivity is within the standard range.

Standard range:

27 to 33 kg (59.52 to 72.75 lb)

HINT:

When performing the sensitivity check, use a solid metal weight (the check result may not be accurate if a liquid weight is used).

NEXT

RS

END