

POWER SOURCE CIRCUIT

CIRCUIT DESCRIPTION

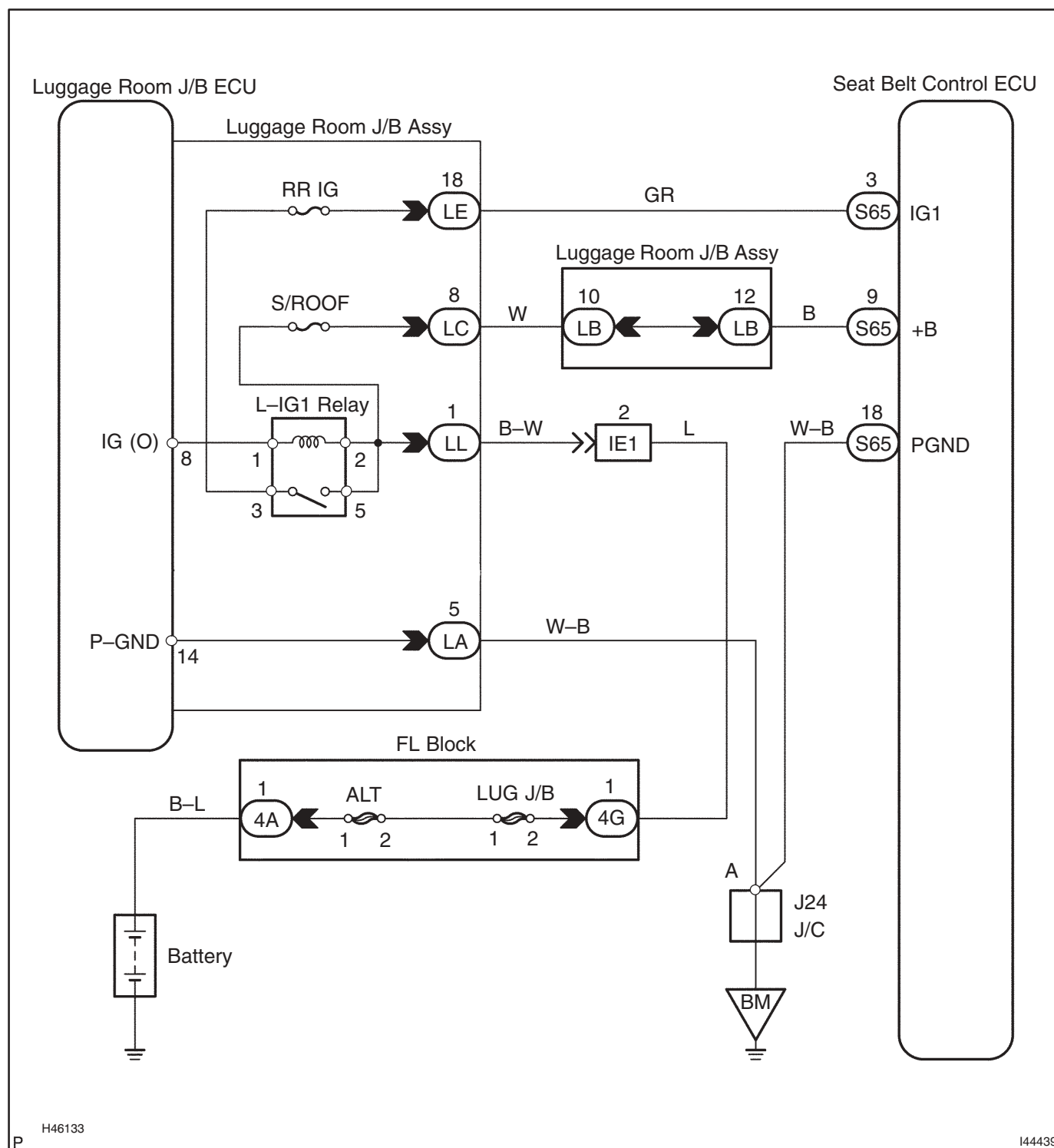
This circuit supplies power to the seat belt control ECU.

When the ignition switch is turned ON, the D-IG1 relay turns ON and power is supplied to the driver side J/B ECU. Power is then supplied from the driver side J/B ECU to the luggage room J/B ECU, which then turns ON the L-IG1 relay to supply power to the seat belt control ECU.

HINT:

There may be a malfunction in the power source circuit if either: 1) neither DTCs nor "normal system" codes are output but the pre-crash safety system is not functioning normally; or 2) DTCs are not output and a "normal system" code is output, but the pre-crash safety system is not functioning normally.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 INSPECT FUSE (LUG J/B, RR IG, S/ROOF)

- (a) Remove the LUG J/B H-fuse from the FL block.
- (b) Remove the RR IG and S/ROOF fuses from the luggage room J/B.
- (c) Measure the resistance of the fuses.

Standard: Below 1 Ω

NG

REPLACE FUSE

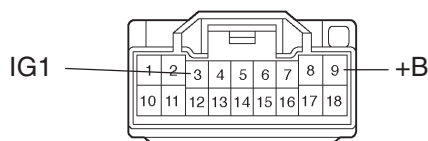
OK

2 CHECK WIRE HARNESS (SEAT BELT CONTROL ECU – BATTERY)

Wire Harness Side

S65

Seat Belt Control ECU



Y

I44437

- (a) Turn the ignition switch OFF.
- (b) Disconnect the cable from the negative (–) battery terminal.
- (c) Disconnect the S65 ECU connector.
- (d) Connect the cable to the negative (–) battery terminal.
- (e) Measure the voltage of the wire harness side connector.

Standard:

Tester Connection	Condition	Specified Condition
S65–3 (IG1) – Body ground	Ignition switch ON	10 to 14 V
S65–9 (+B) – Body ground	Always	10 to 14 V

NG

Go to step 4

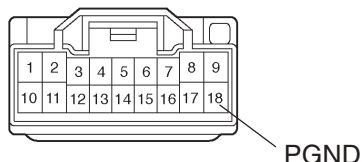
OK

3 CHECK WIRE HARNESS (SEAT BELT CONTROL ECU – BODY GROUND)

Wire Harness Side

S65

Seat Belt Control ECU



Y

I44437

- (a) Turn the ignition switch OFF.
- (b) Disconnect the cable from the negative (–) battery terminal.
- (c) Measure the resistance of the wire harness side connector.

Standard:

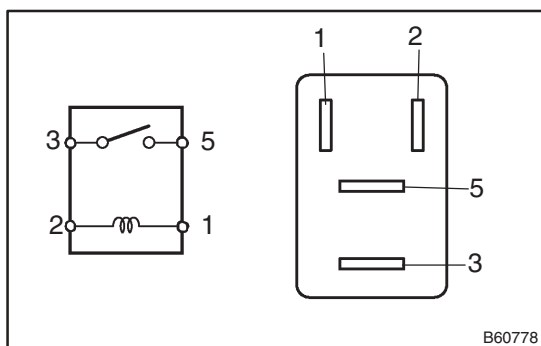
Tester Connection	Specified Condition
S65–18 (PGND) – Body ground	Below 1 Ω

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REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

REPLACE SEAT BELT CONTROL ECU (See page 61–1)

4 INSPECT RELAY (Marking: L-IG1)

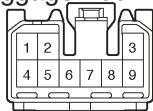
- (a) Remove the L-IG1 relay from the luggage room J/B.
 (b) Measure the resistance of the relay.

Standard:

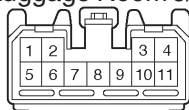
Tester Connection	Specified Condition
3 – 5	10 k Ω or higher
3 – 5	Below 1 Ω (when battery voltage is applied to terminals 1 and 2)

NG**REPLACE RELAY****OK****5 CHECK WIRE HARNESS (LUGGAGE ROOM J/B ASSY– SEAT BELT CONTROL ECU, BATTERY AND BODY GROUND)****Wire Harness Side****LA**

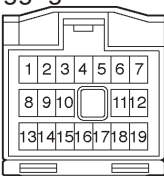
Luggage Room J/B Assy

**LC**

Luggage Room J/B Assy

**LE**

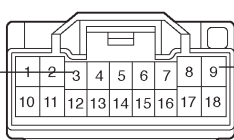
Luggage Room J/B Assy

**LL**

Luggage Room J/B Assy

**S65**

Seat Belt Control ECU

**IG1****+B**

- (a) Turn the ignition switch OFF.
 (b) Disconnect the cable from the negative (–) battery terminal.
 (c) Disconnect the LE, LC, LL, LF and LA J/B connectors.
 (d) Disconnect the S65 ECU connector.
 (e) Connect the cable to the negative (–) battery terminal.
 (f) Measure the voltage and resistance of the wire harness side connectors.

Standard:

Tester Connection	Specified Condition
LE-18 – S65-3 (IG1)	Below 1 Ω
LB-12 – S65-9 (+B)	Below 1 Ω
LB-10 – LC-8	Below 1 Ω
LL-1 – Body ground	10 to 14 V
LA-5 – Body ground	Below 1 Ω

NG**REPAIR OR REPLACE HARNESS AND CONNECTOR****OK****REPLACE LUGGAGE ROOM JUNCTION BLOCK ASSY**

