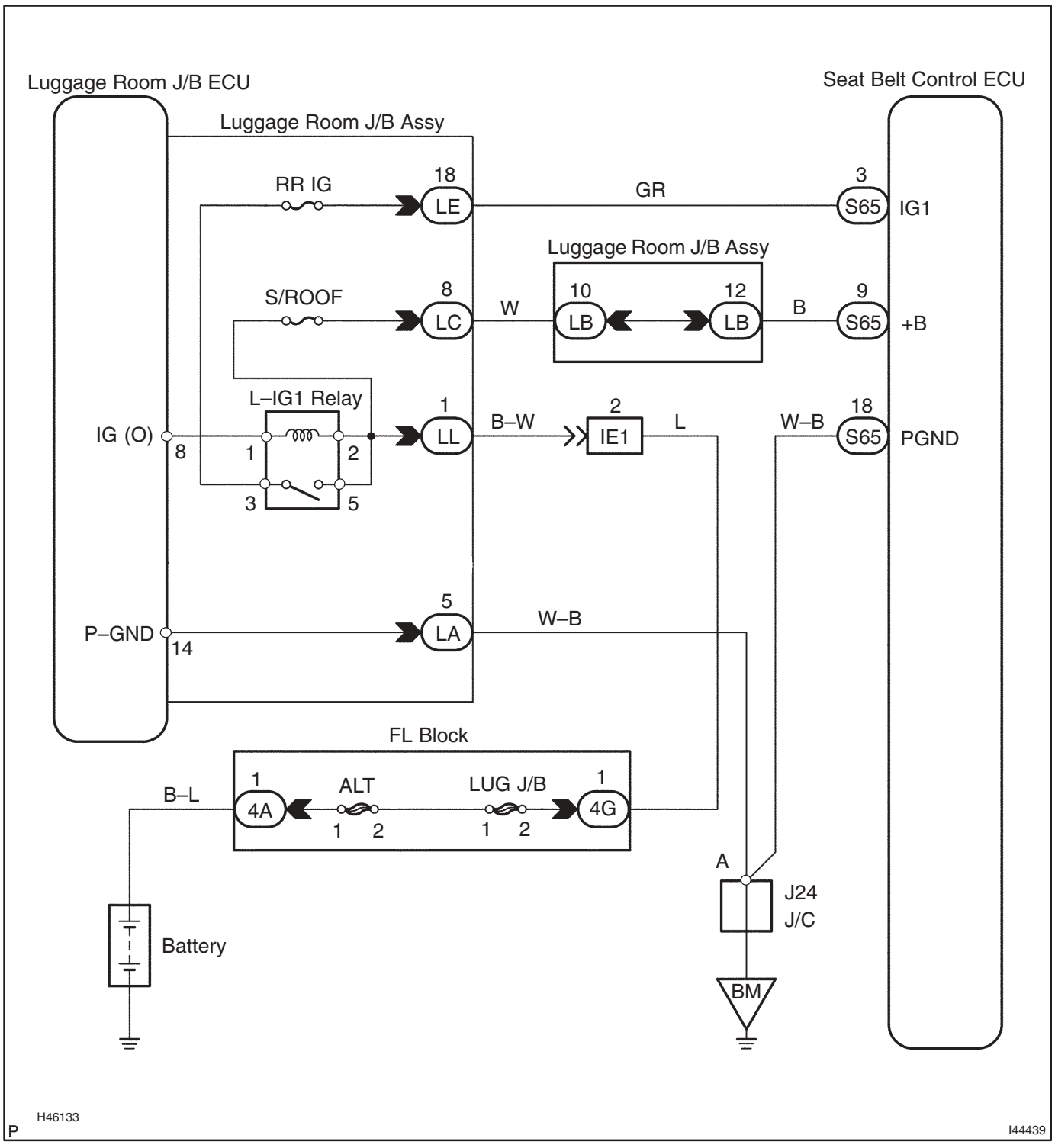
POWER SOURCE CIRCUIT

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

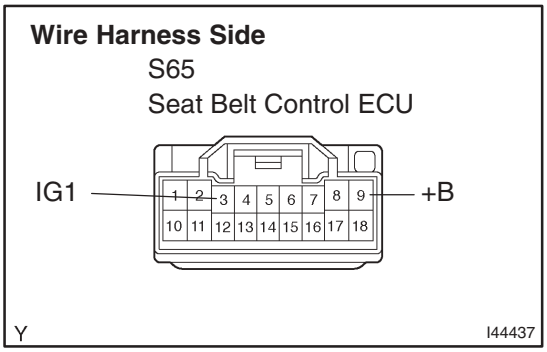
1 INSPECT FUSE (LUG J/B, RR IG, S/ROOF)

(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)



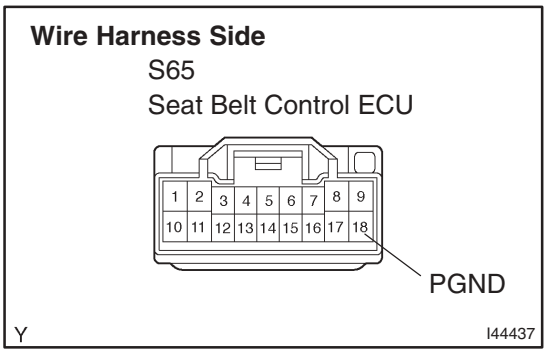
(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (–) battery terminal.
(c) Disconnect the S65 ECU connector.
(d) Connect the cable to the negative (–) battery terminal.
(e) Measure the voltage of the wire harness side connector.
Standard:

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)



(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:

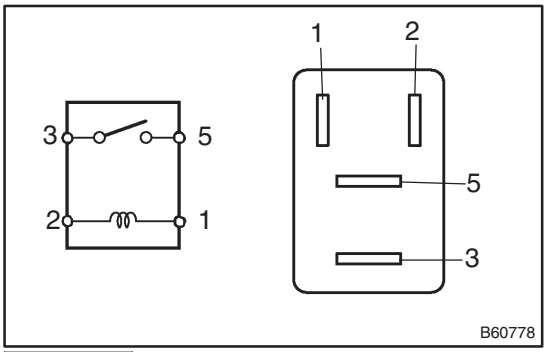
Tester Connection	Specified Condition
S65–18 (PGND) – Body ground	Below 1 Ω

NG → **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 kΩ or higher
3 – 5	Below 1 Ω (when battery voltage is applied to terminals 1 and 2)

NG → **REPLACE RELAY**

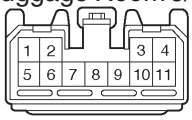
OK

5 CHECK WIRE HARNESS (LUGGAGE ROOM J/B ASSY– SEAT BELT CONTROL ECU, BATTERY AND BODY GROUND)

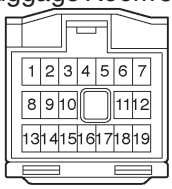
Wire Harness Side

LA
Luggage Room J/B Assy

LC
Luggage Room J/B Assy

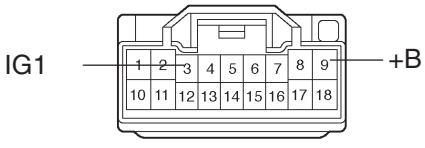


LE
Luggage Room J/B Assy



LL
Luggage Room J/B Assy

S65
Seat Belt Control ECU



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(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