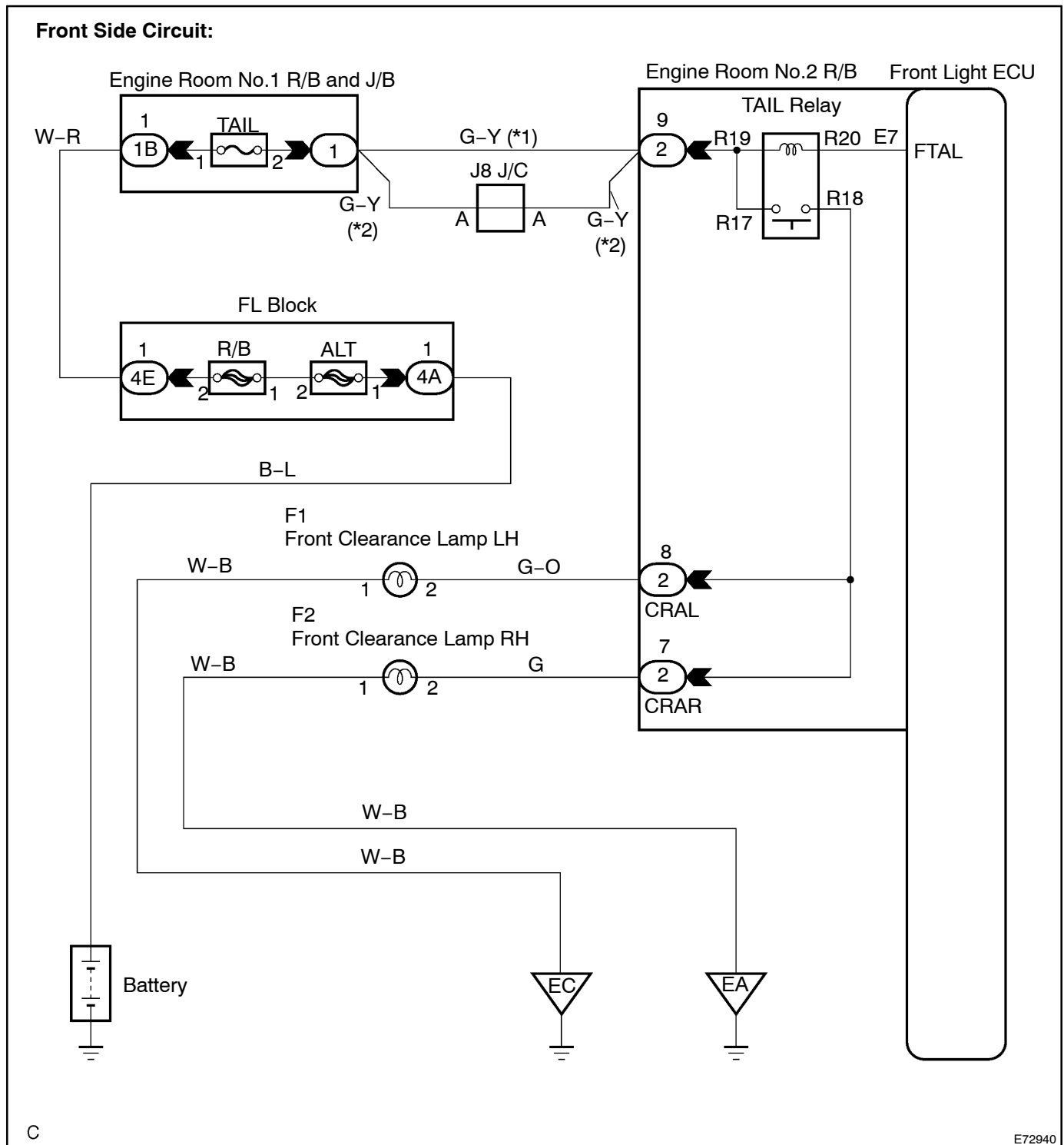


TAILLIGHT CIRCUIT

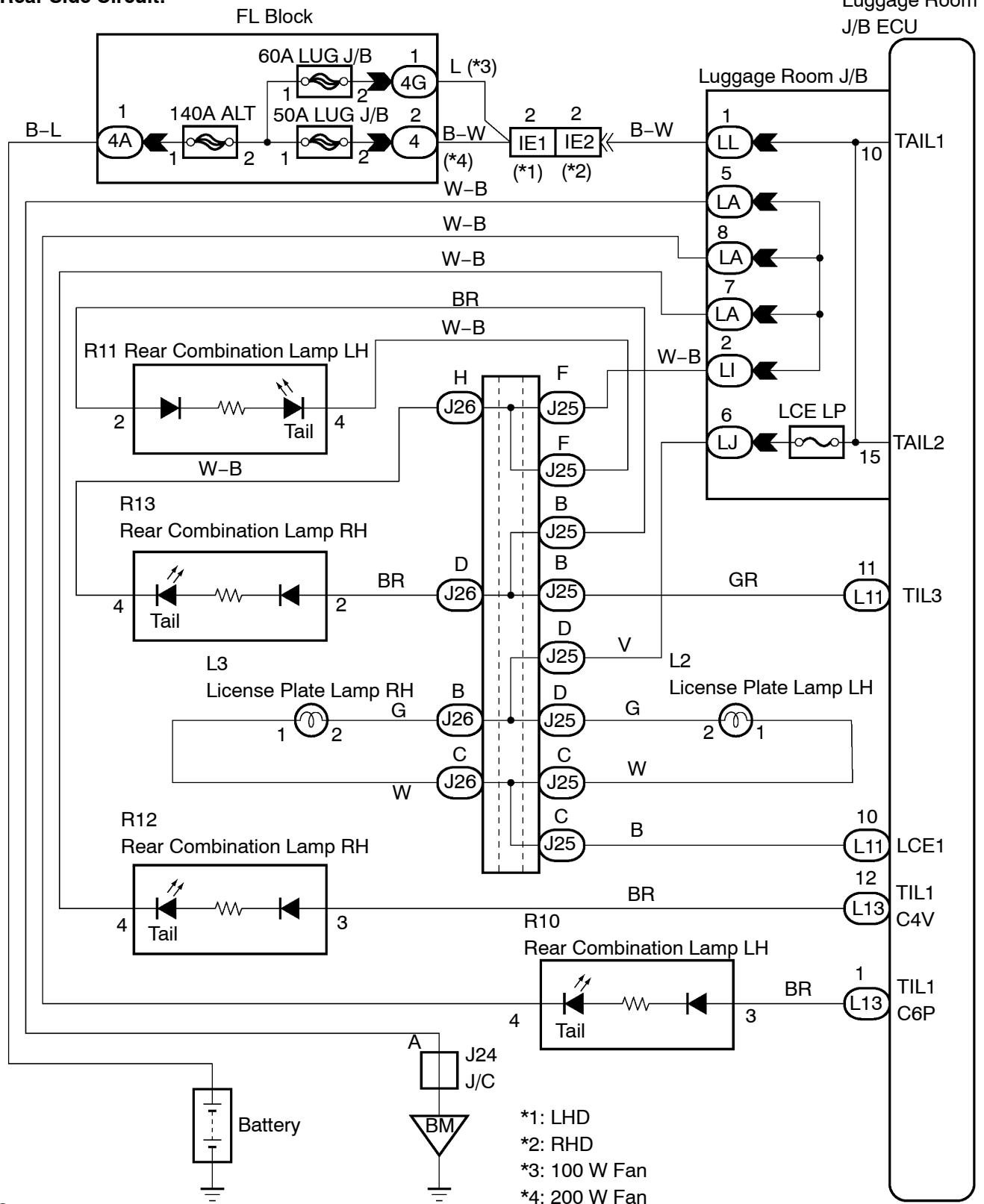
CIRCUIT DESCRIPTION

The front light ECU and luggage room junction block receive taillamp switch information from the combination switch, and turn on the front parking lamp and rear taillamp.

WIRING DIAGRAM



Rear Side Circuit:



C

E72941

INSPECTION PROCEDURE

1 CHECK VEHICLE CONDITION

(a) Check the malfunctioning part of the taillight circuit.

Result:

Front side taillamp is malfunctioning	A
Rear side taillamp is malfunctioning	B

HINT:

First, inspect the combination switch circuit when each side lamp is malfunctioning (see page 05-1511).

B

Go to step 9

A

2 PERFORM ACTIVE TEST ON INTELLIGENT TESTER

- (a) Connect the intelligent tester II to the DLC3.
- (b) Turn the ignition switch to the ON position and turn the intelligent tester II main switch on.
- (c) Select the item below in the ACTIVE TEST and then check that the relay operation.

BODY NO.5 (MULTIPLEX NETWORK FRONT LIGHT ECU):

Item	Test Details	Diagnostic Note
Clearance Light Operation	Clearance Light ON/OFF	-

OK: Lamp comes on.

NG

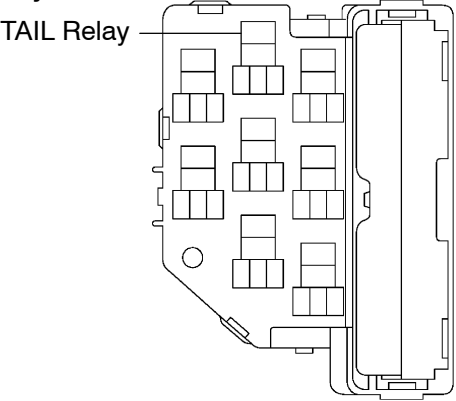
Go to step 3

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-1369)

3 INSPECT RELAY

Engine Room No.2 R/B
Relay Side View:



N

I37538

(a) Remove the TAIL relay from the engine room No.2 R/B.

(b) Inspect the TAIL relay continuity.

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

Standard:

Tester Connection	Specified Condition
3 - 5	10 kΩ or higher
3 - 5	Below 1 Ω (When battery voltage is applied to terminal 1 - 2)

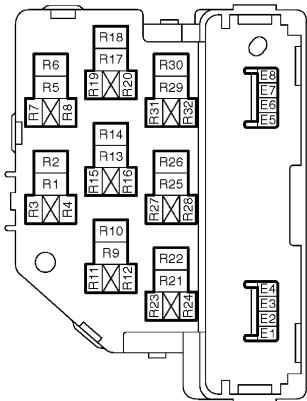
NG

REPLACE RELAY

OK

4 INSPECT MULTIPLEX NETWORK BODY ECU(ENGINE ROOM NO.2 R/B)

Engine Room No.2 R/B
Relay Side View:



N

I37539

(a) Using a service wire, connect R17 and R18 in the engine room No.2 R/B.

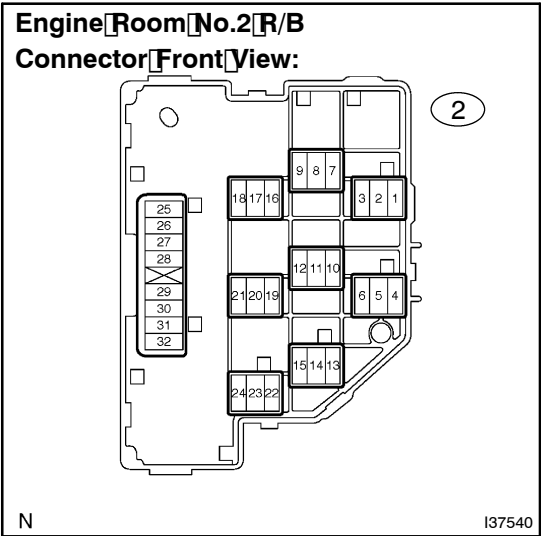
OK: Lamp comes on.

NG

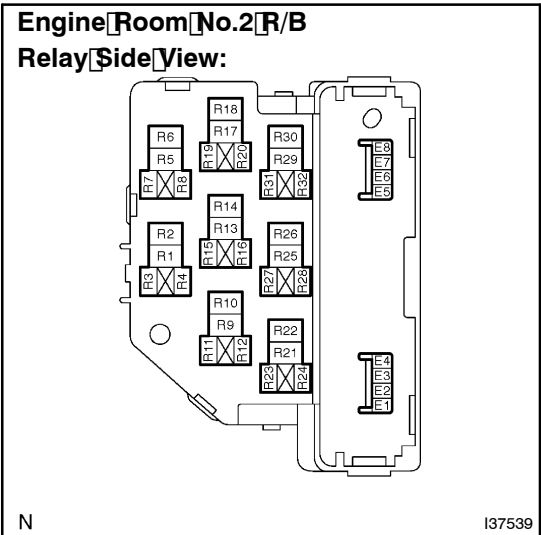
Go to step 6

OK

5 INSPECT MULTIPLEX NETWORK BODY ECU (ENGINE ROOM NO.2 R/B)



- (a) Disconnect 2-9 connector from the engine room No.2 R/B.
- (b) Remove the front light ECU from the engine room No.2 R/B.



- (c) Using a service wire, connect R19 and R20 in the engine room No.2 R/B.
- (d) Measure the resistance according to the value(s) in the table below.

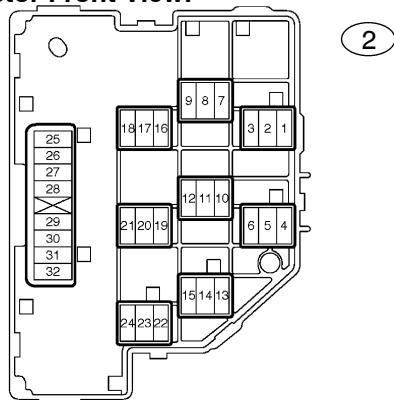
Standard:

Tester Connection	Condition	Specified Condition
2-9 - E7	Connect R19 and R20	Below 1 Ω

NG REPLACE MULTIPLEX NETWORK BODY ECU (ENGINE ROOM NO.2 R/B)

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-1369)

6 INSPECT MULTIPLEX NETWORK BODY ECU(ENGINE ROOM NO.2 R/B)**Engine Room No.2 R/B
Connector Front View:**

N

I37540

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

HINT:

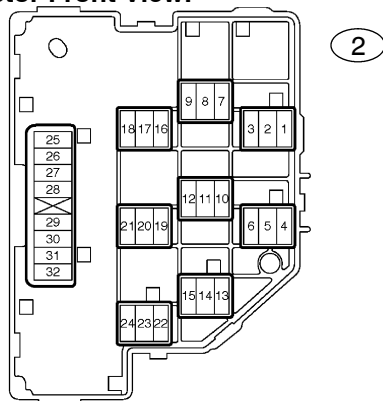
Inspect the side the suspected malfunctioning part is on.

Standard:

Tester Connection	Condition	Specified Condition
2-7 - Body ground (*1)	Connect R17 and R18	10 to 14 V
2-8 - Body ground (*2)	Connect R17 and R18	10 to 14 V

*1: RH side

*2: LH side

NG**Go to step 7****OK****REPAIR OR REPLACE HARNESS OR CONNECTOR (EACH OF LAMP CIRCUIT)****7 CHECK HARNESS AND CONNECTOR(POWER SOURCE CIRCUIT)****Engine Room No.2 R/B
Connector Front View:**

N

I37540

- (a) Disconnect 2-9 connector from the engine room No.2 R/B.
- (b) Measure the voltage according to the value(s) in the table below.

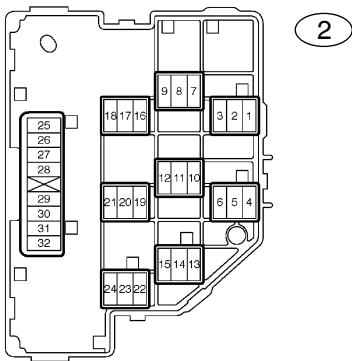
Standard:

Tester Connection	Condition	Specified Condition
2-9 - Body ground	Always	10 to 14 V

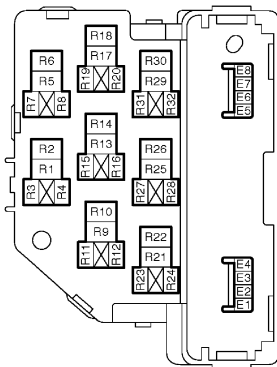
NG**REPAIR OR REPLACE HARNESS OR CONNECTOR****OK**

8 INSPECT MULTIPLEX NETWORK BODY ECU (ENGINE ROOM NO.2 R/B)

Engine Room No.2 R/B
Connector Front View:



Relay Side View:



I37540
I37539

I39838

- (a) Remove the front light ECU from engine room No.2 R/B.
- (b) Using a service wire, connect R19 and R20 of the engine room No.2 R/B.
- (c) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Condition	Specified Condition
2-7 - 2-9	Connect R17 and R18	Below 1 Ω
2-8 - 2-9	Connect R17 and R18	Below 1 Ω
2-9 - E7	Connect R19 and R20	Below 1 Ω

NG

REPLACE MULTIPLEX NETWORK BODY ECU (ENGINE ROOM NO.2 R/B)

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-1369)

9 **PERFORM ACTIVE TEST ON INTELLIGENT TESTER**

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the ignition switch to the ON position and turn the intelligent tester main switch on.
- (c) Select the item below in the ACTIVE TEST and then check the operation of each lamp.

BODY NO.4 (LUGGAGE ROOM JUNCTION BLOCK ECU):

Item	Test Details	Diagnostic Note
Tail Light	Taillamp ON/OFF	-
License Light	Licence lamp ON/OFF	-

OK: Each lamp comes on.
Result:

OK	A
NG (License light is normal)	B
NG (Taillight is normal)	C
NG (Both sides are abnormal)	D

B

Go to step 10

C

Go to step 14

D

Go to step 16

A

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-1369)

10 INSPECT LUGGAGE ROOM JUNCTION BLOCK ASSY

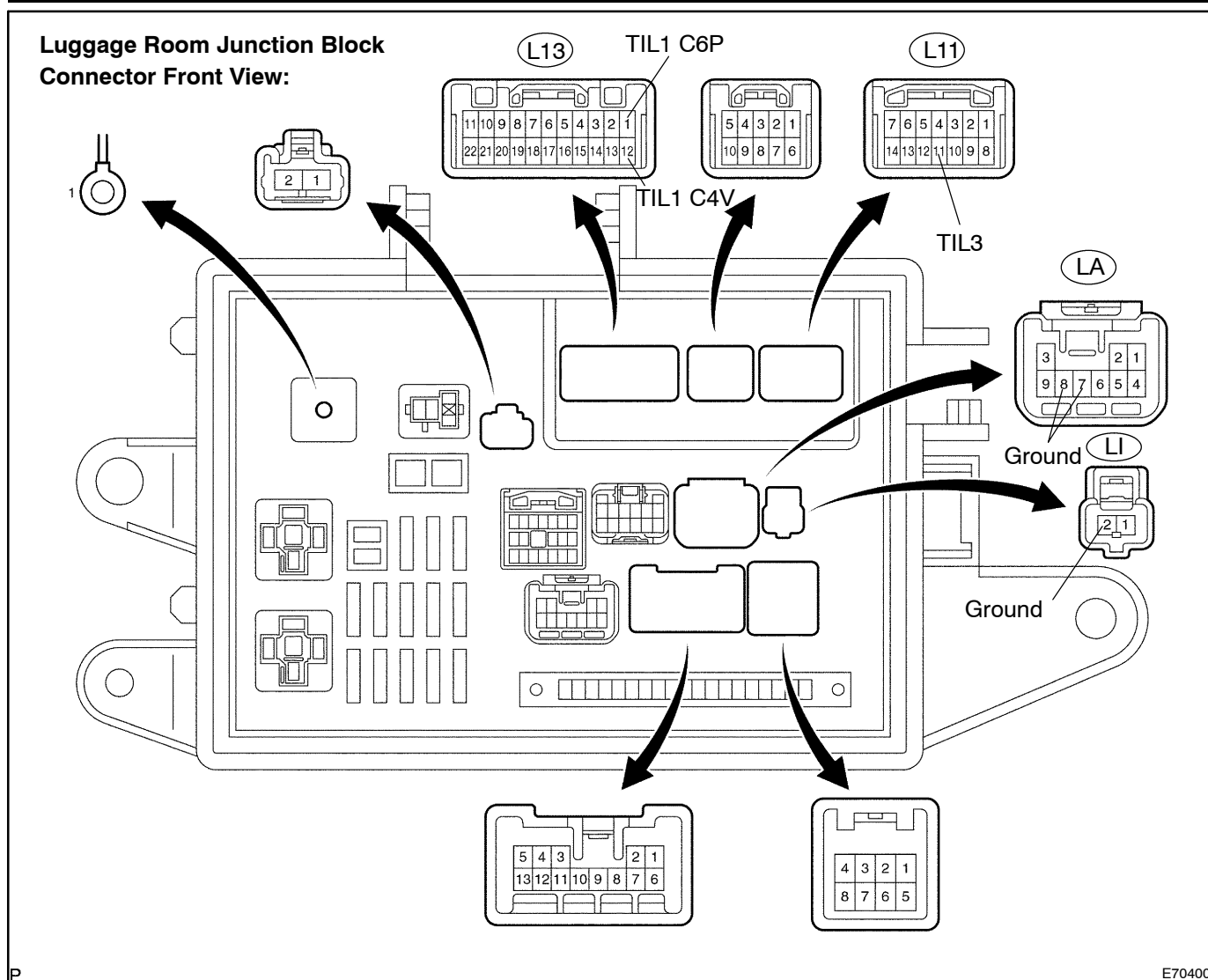
(a) Measure the voltage according to the value(s) in the table below.

HINT:

Inspect the side the suspected malfunctioning part is on.

Standard:

Tester Connection	Condition	Specified Condition
L11-11 - LI-2	Light control switch in TAIL position	10 to 14 V
L13-1 - LA-8	Light control switch in TAIL position	10 to 14 V
L13-12 - LA-7	Light control switch in TAIL position	10 to 14 V



NG

Go to step 11

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR (EACH OF TAILLAMP CIRCUIT)

11 INSPECT LUGGAGE ROOM JUNCTION BLOCK ASSY

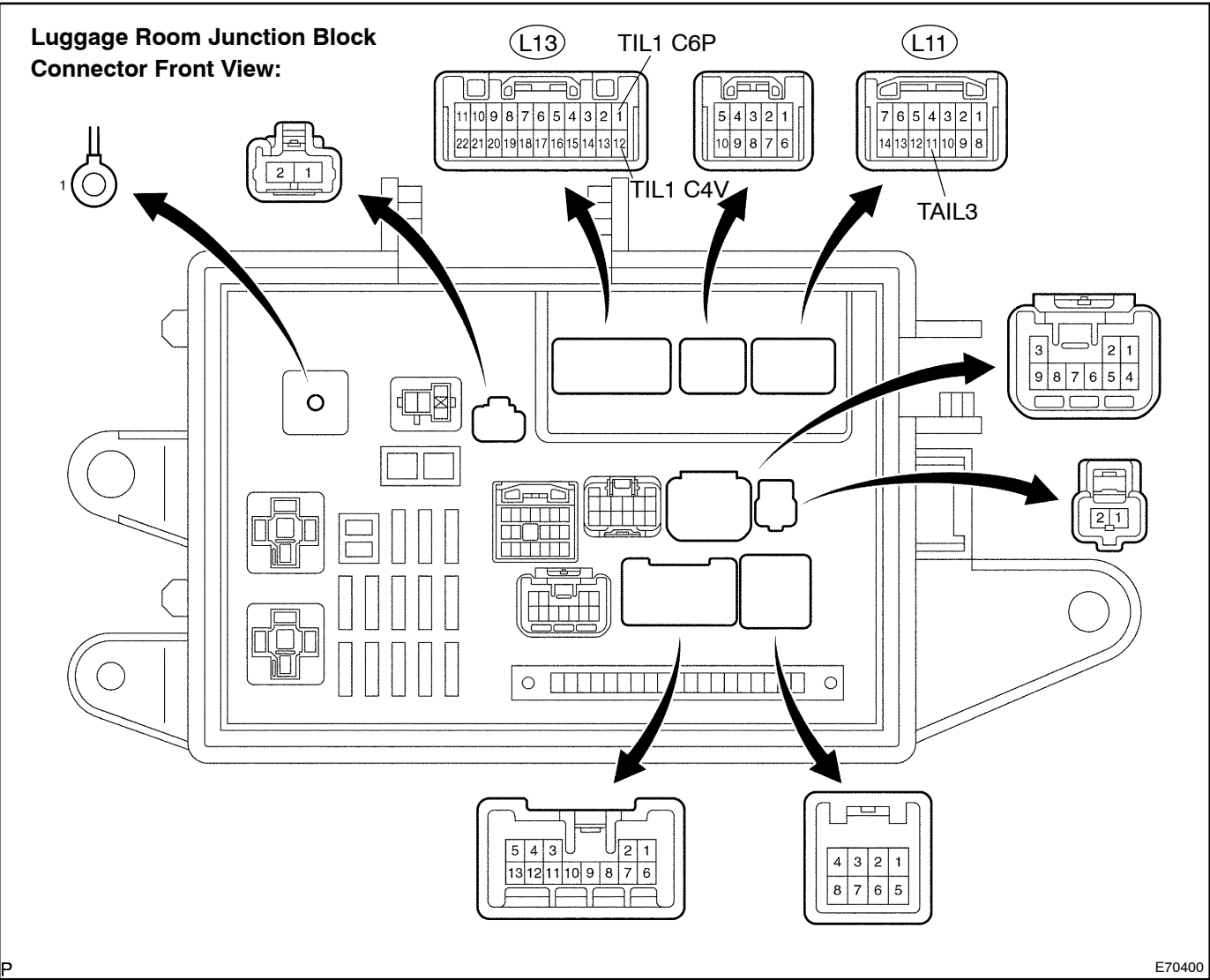
(a) Measure the voltage according to the value(s) in the table below.

HINT:

Inspect the side the suspected malfunctioning part is on.

Standard:

Tester Connection	Condition	Specified Condition
L11-11 - Body ground	Light control switch in TAIL position	10 to 14 V
L13-1 - Body ground	Light control switch in TAIL position	10 to 14 V
L13-12 - Body ground	Light control switch in TAIL position	10 to 14 V



P

E70400

NG → REPLACE LUGGAGE ROOM JUNCTION BLOCK ASSY

OK

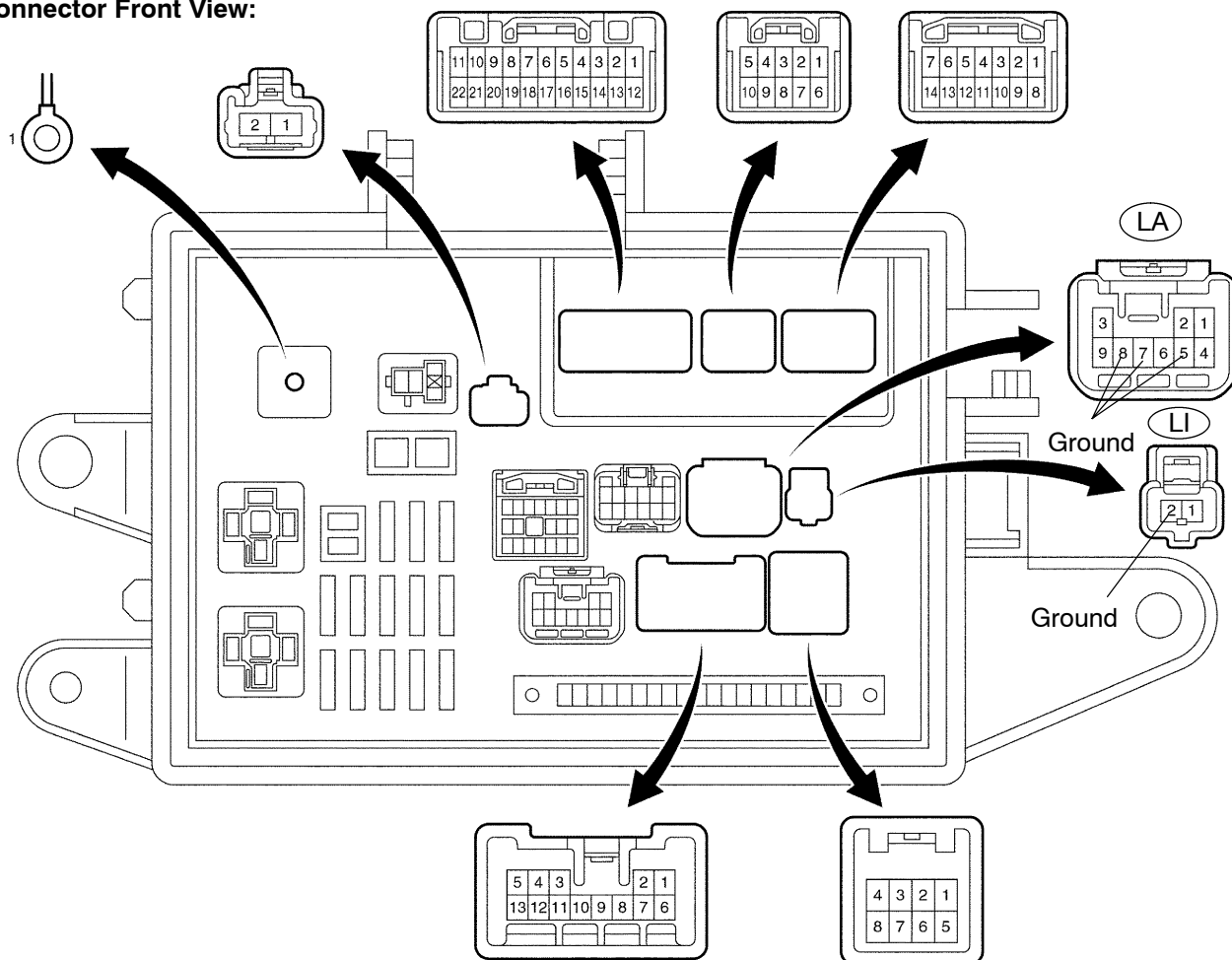
12 INSPECT LUGGAGE ROOM JUNCTION BLOCK ASSY

- Disconnect the LA and LI connectors from the luggage room junction block assy.
- Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Condition	Specified Condition
LA-7 - LA-5	Always	Below 1 Ω
LA-8 - LA-5	Always	Below 1 Ω
LI-2 - LA-5	Always	Below 1 Ω

**Luggage Room Junction Block
Connector Front View:**



P

E70400

NG

REPLACE LUGGAGE ROOM JUNCTION BLOCK ASSY

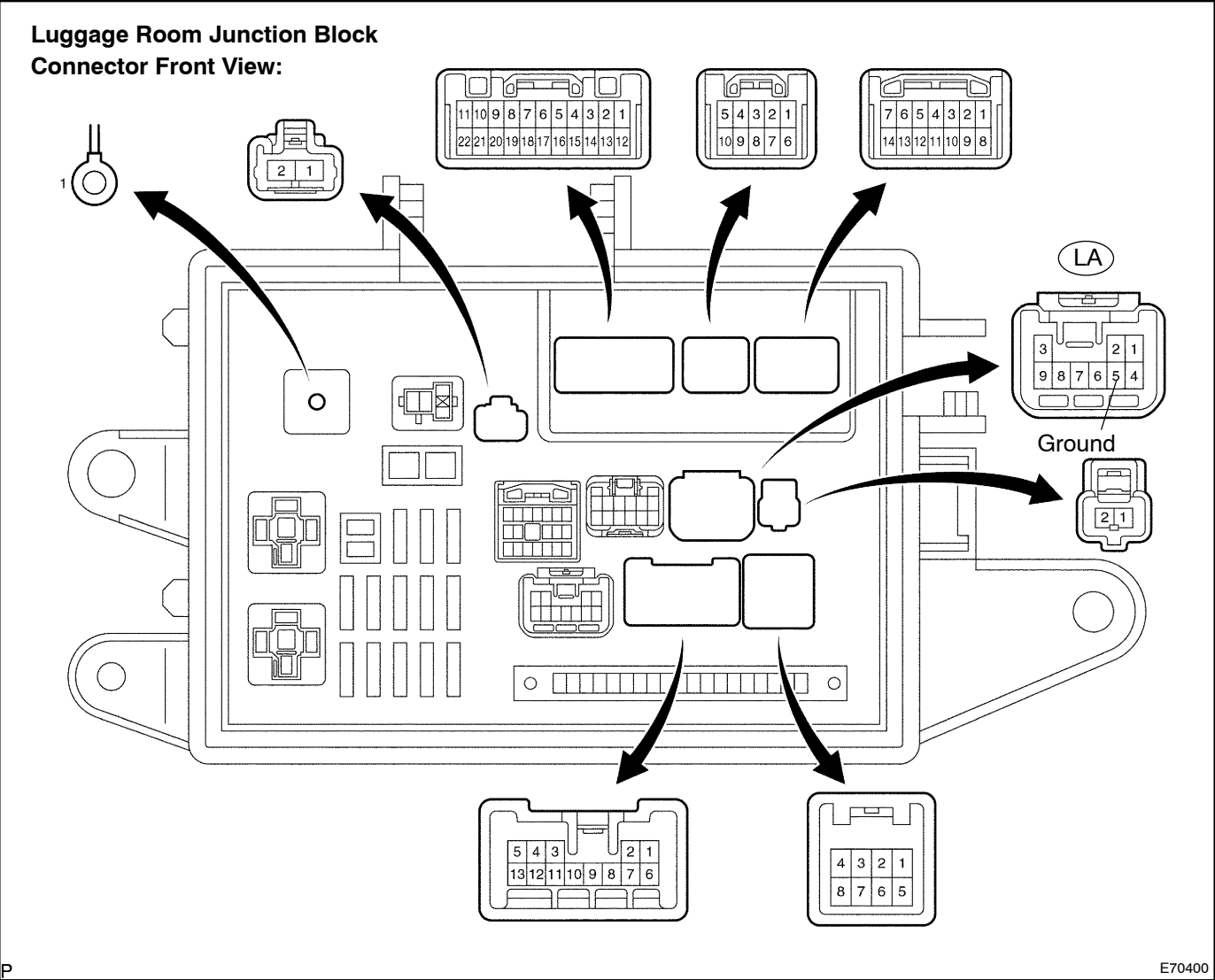
OK

13

CHECK HARNESS AND CONNECTOR(GROUND CIRCUIT)

- (a) Measure the resistance according to the value(s) in the table below.
- Standard:**

Tester Connection	Condition	Specified Condition
LA-5 - Body ground	Always	Below 1 Ω



NG

REPAIR OR REPLACE HARNESS OR CONNECTOR (GROUND CIRCUIT)

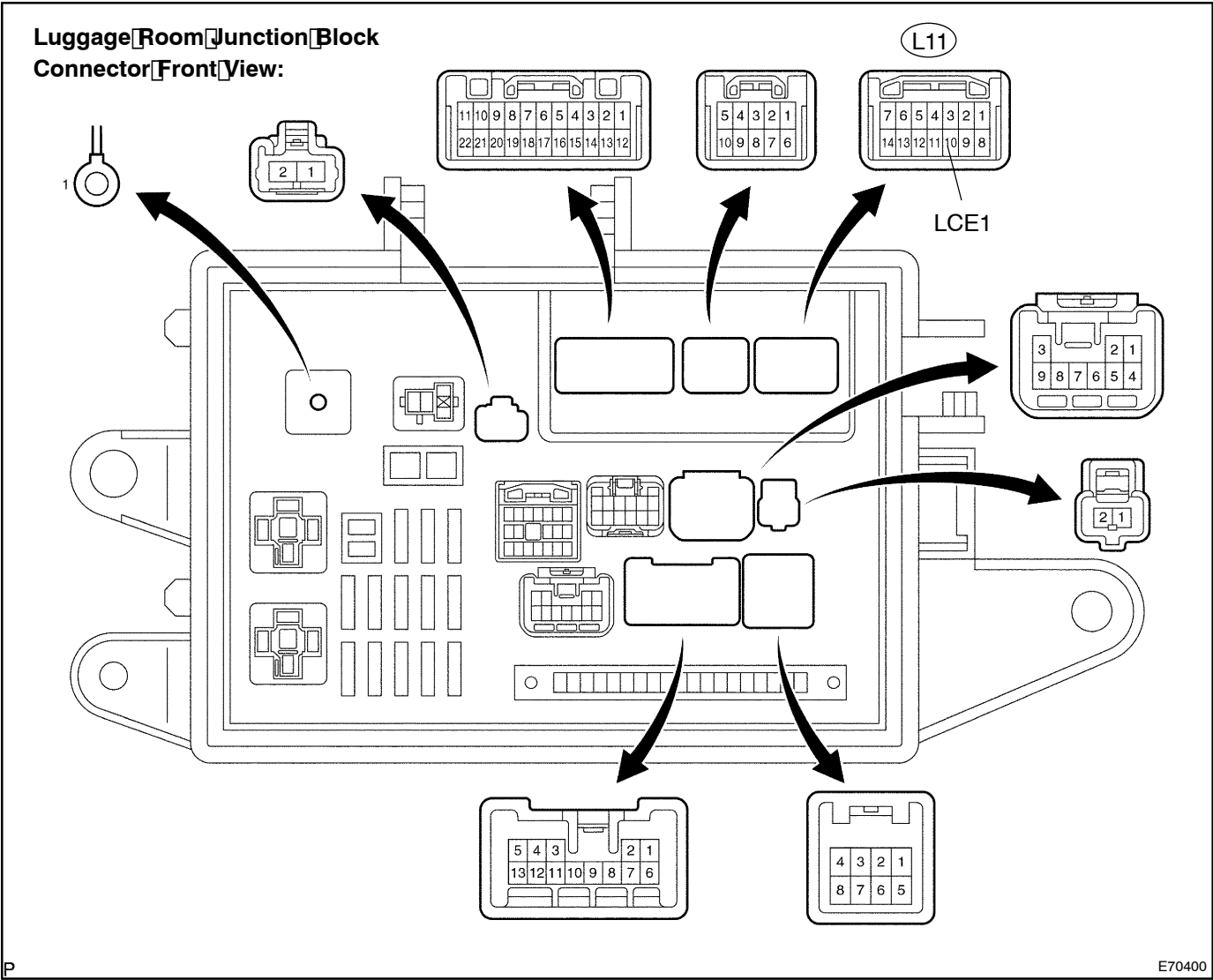
OK

REPAIR OR REPLACE HARNESS OR CONNECTOR (EACH OF TAILLAMP CIRCUIT)

14 INSPECT LUGGAGE ROOM JUNCTION BLOCK ASSY

(a) Measure the voltage according to the value(s) in the table below.
Standard:

Tester Connection	Condition	Specified Condition
L11-10 - Body Ground	Light control switch in except TAIL position	10 to 4 V
L11-10 - Body Ground	Light control switch in TAIL position	Below 1 V



NG Go to step 15

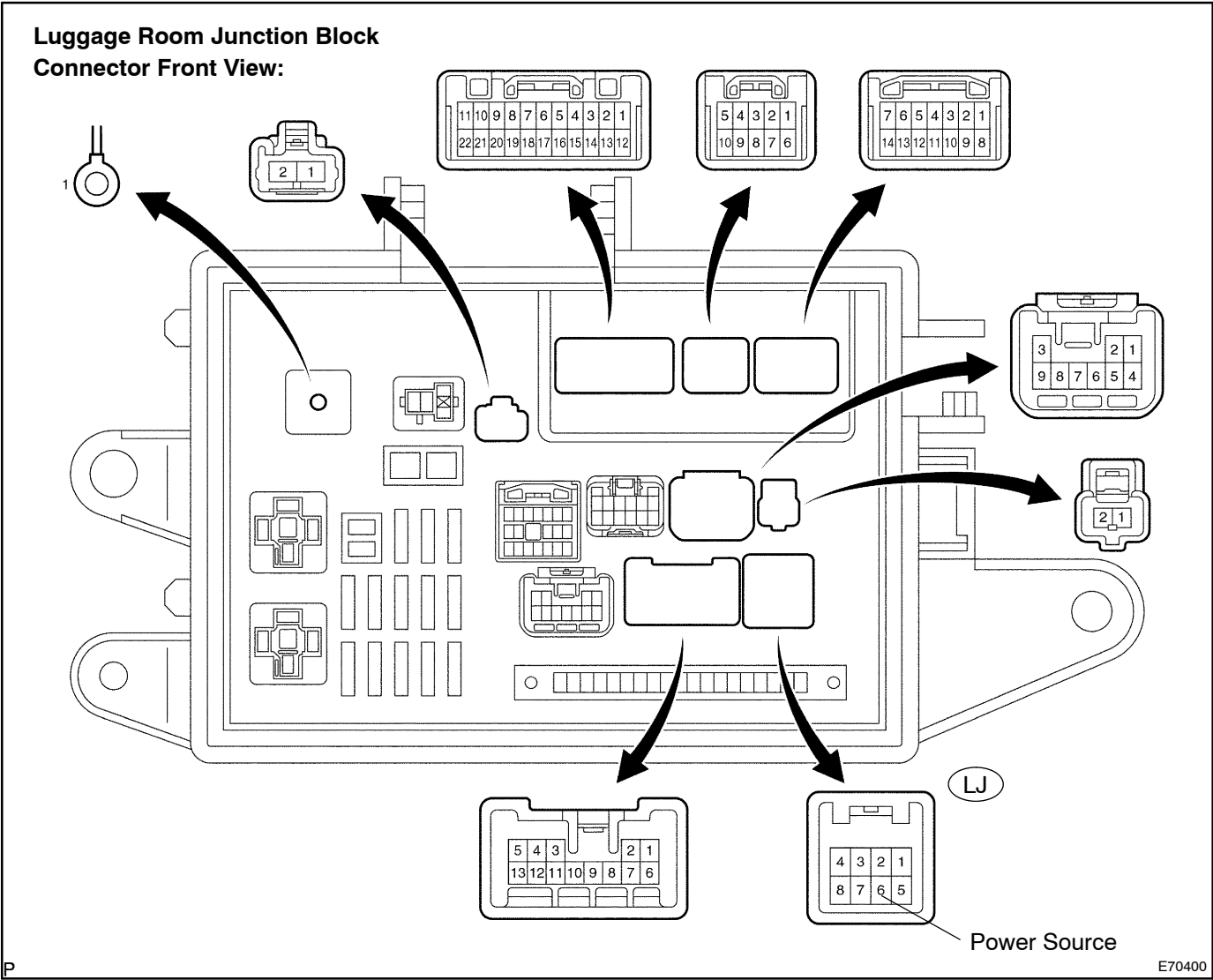
OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-1369)

15 INSPECT LUGGAGE ROOM JUNCTION BLOCK ASSY

- (a) Measure the voltage according to the value(s) in the table below.
Standard:

Tester Connection	Condition	Specified Condition
LJ-6 - Body ground	Always	10 to 14 V



NG REPLACE LUGGAGE ROOM JUNCTION BLOCK ASSY

OK

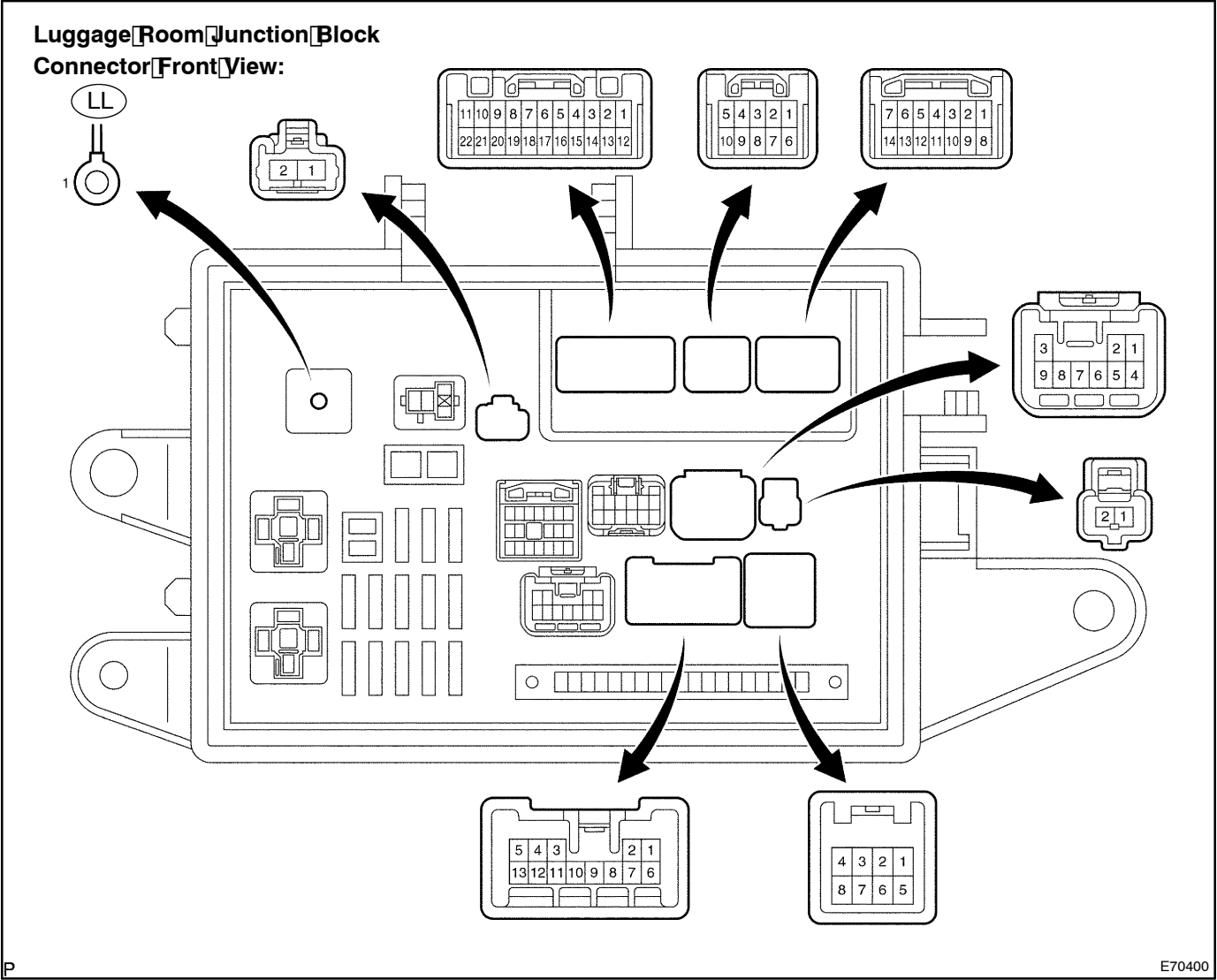
REPAIR OR REPLACE HARNESS OR CONNECTOR (LICENSE PLATE LAMP CIRCUIT)

16 CHECK HARNESS AND CONNECTOR (POWER SOURCE CIRCUIT)

(a) Measure the voltage according to the value(s) in the table below.

Standard:

Tester Connection	Condition	Specified Condition
LL-1 - Body ground	Always	10 to 4 V



NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-1369)