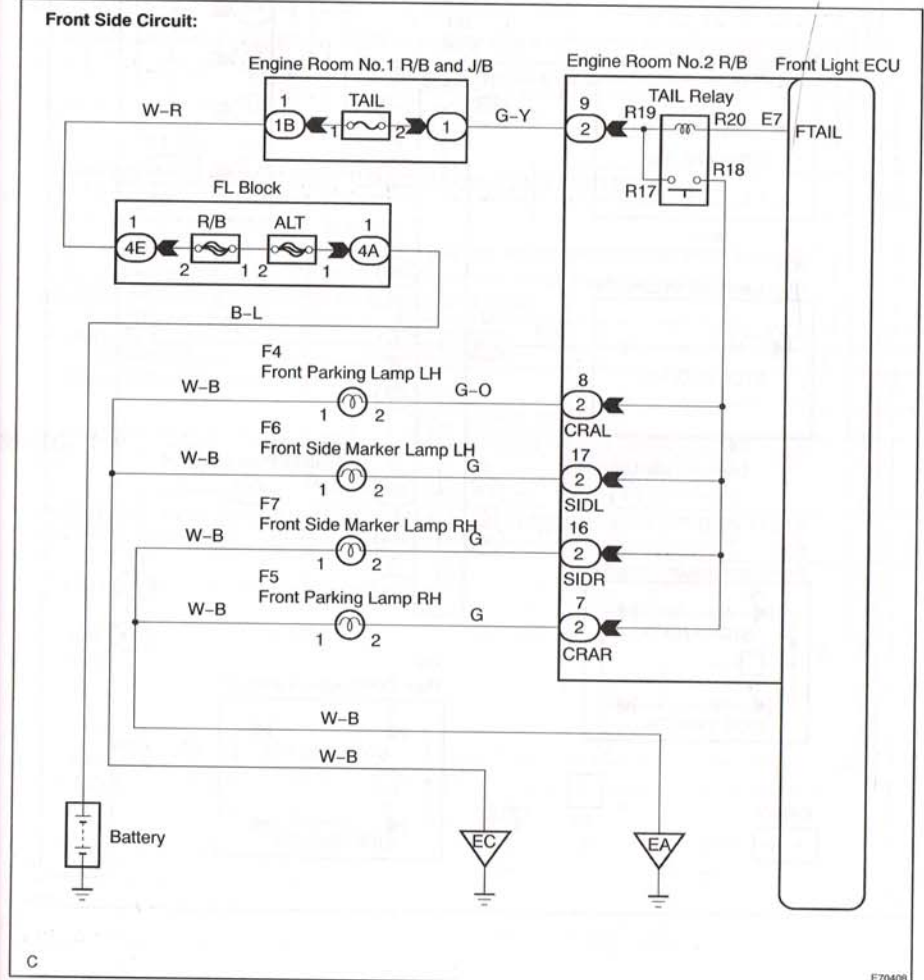


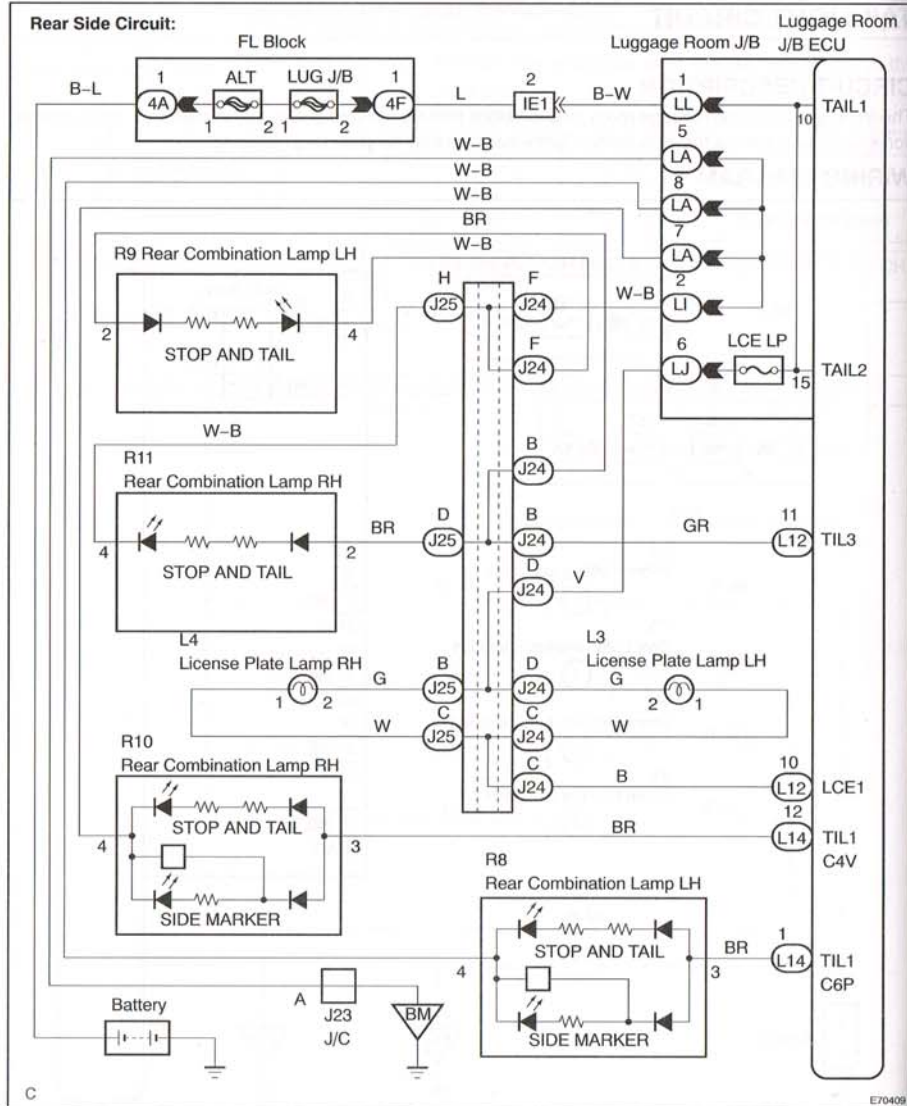
TAILLIGHT CIRCUIT

CIRCUIT DESCRIPTION

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

WIRING DIAGRAM





INSPECTION PROCEDURE

1 CHECK VEHICLE CONDITION

- (a) Check the malfunctioning part of the taillamp 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 05-1523).

B Go to step 9

A

2 PERFORM ACTIVE TEST USING HAND-HELD TESTER

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

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

Item	Test Details	Diagnostic Note
CLEARANCE	Clearance light ON/OFF	-

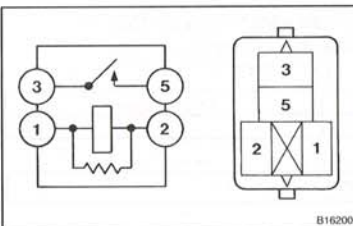
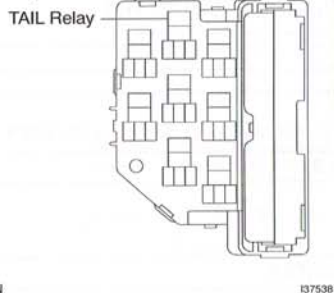
OK: Lamp comes on.

NG Go to step 3

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE
 (SEE PAGE 05-1393)

3 INSPECT RELAY

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

- (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 k Ω 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:

- (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)

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

- (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.

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

- (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

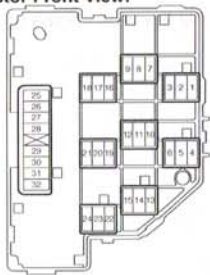
NG → REPLACE MULTIPLEX NETWORK BODY ECU
(ENGINE ROOM NO.2 R/B)

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-1393)

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

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



②

- (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 R7 and R18	10 to 14 V
2-8 - Body ground (*2)	Connect R7 and R18	10 to 14 V
2-16 - Body ground (*1)	Connect R7 and R18	10 to 14 V
2-17 - Body ground (*2)	Connect R7 and R18	10 to 14 V

*1: RH side

*2: LH side

NG

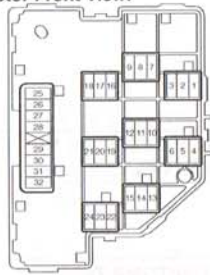
Go to step 7

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:



②

- (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:



②

- (a) Remove the front light ECU from the 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
2-16 - 2-9	Connect R17 and R18	Below 1 Ω
2-17 - 2-9	Connect R17 and R18	Below 1 Ω
2-9 - E7	Connect R17 and R18	Below 1 Ω

Relay Side View:



I37540
I37539

I39838

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 05-1393)

9 PERFORM ACTIVE TEST USING HAND-HELD TESTER

- (a) Connect the hand-held tester to the DLC3.
 (b) Turn the ignition switch to the ON position and turn the hand-held 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 05-1393)**

10 INSPECT LUGGAGE ROOM JUNCTION BLOCK ASSY

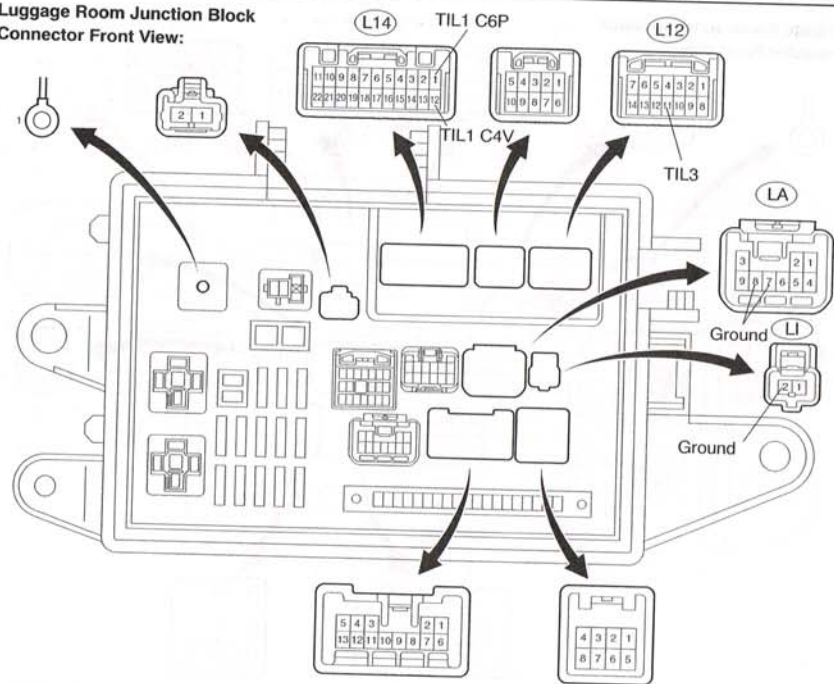
- (a) Measure the voltage according to the value(s) in the table below.

HINT:

Inspect the side the suspected malfunctioning part is on.

Standard:

Tester Connection	Condition	Specified Condition
L12-11 - LI-2	Light control switch in TAIL position	10 to 14 V
L14-1 - LA-8	Light control switch in TAIL position	10 to 14 V
L14-12 - LA-7	Light control switch in TAIL position	10 to 14 V

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

E70400

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.

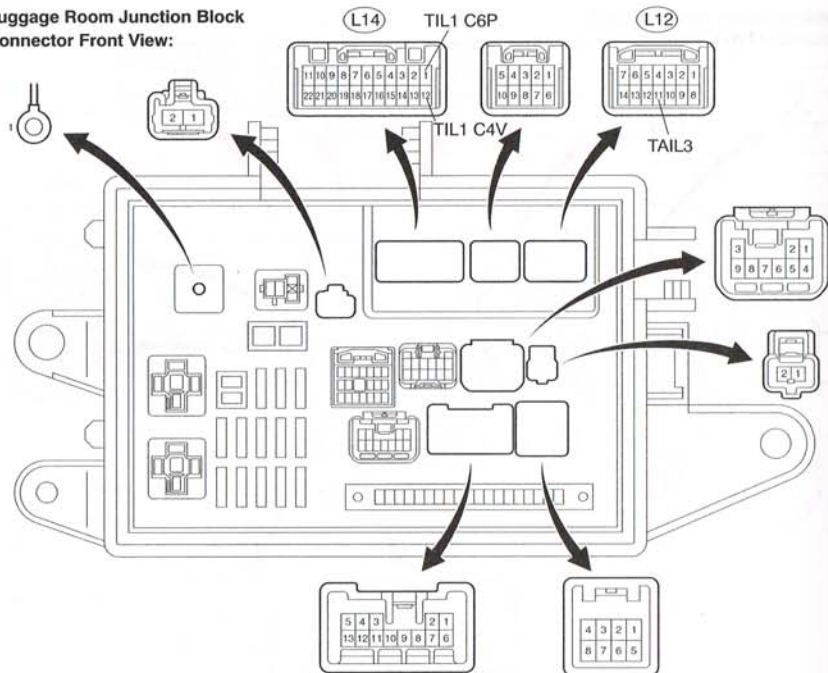
HINT:

Inspect the side the suspected malfunctioning part is on.

Standard:

Tester Connection	Condition	Specified Condition
L12-11 - Body ground	Light control switch in TAIL position	10 to 14 V
L14-1 - Body ground	Light control switch in TAIL position	10 to 14 V
L14-12 - Body ground	Light control switch in TAIL position	10 to 14 V

Luggage Room Junction Block Connector Front View:



E70400

NG

REPLACE LUGGAGE ROOM JUNCTION BLOCK ASSY

OK

12 INSPECT LUGGAGE ROOM JUNCTION BLOCK ASSY

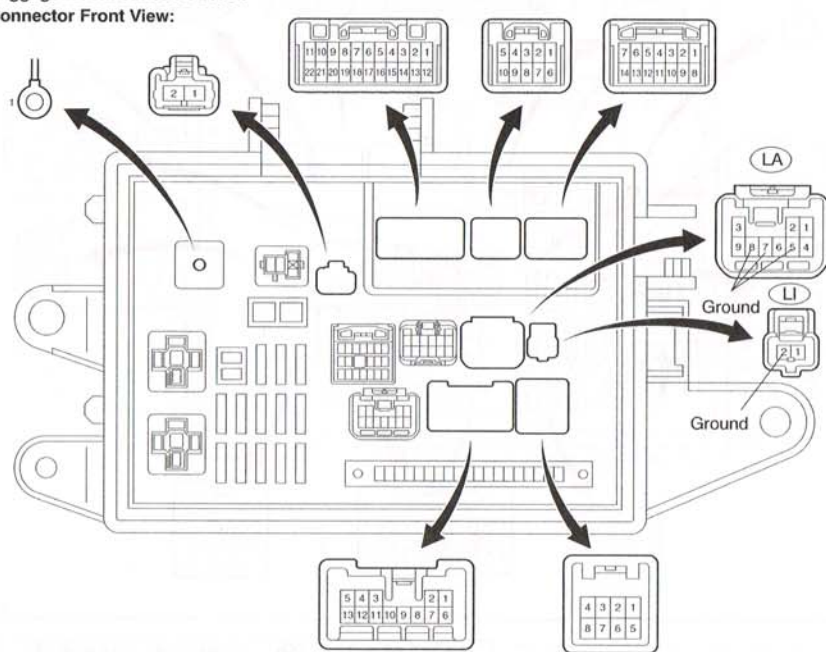
(a) Disconnect the LA and LI connector from the luggage room junction block assy.

(b) 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:



E70400

NG

REPLACE LUGGAGE ROOM JUNCTION BLOCK ASSY

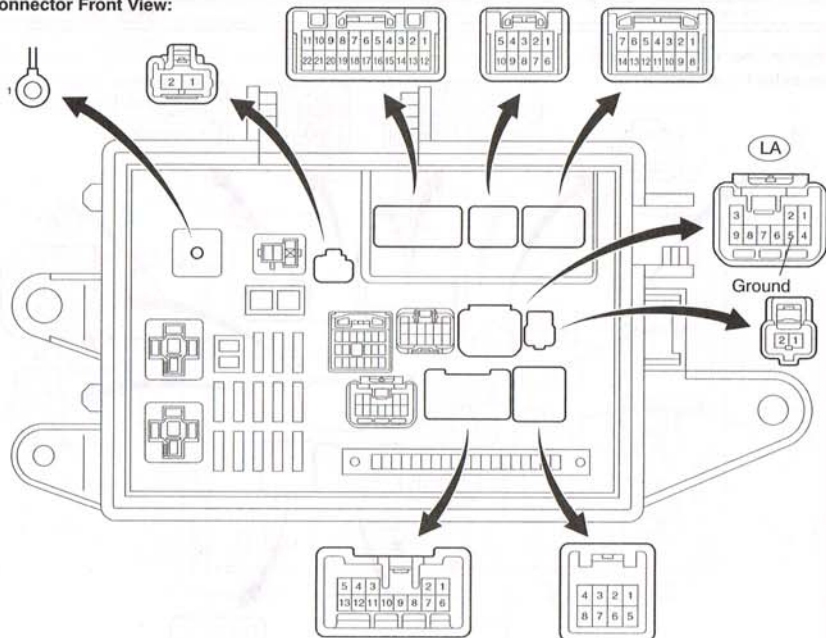
OK

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

Luggage Room Junction Block Connector Front View:

E70400

NG REPAIR OR REPLACE HARNESS OR CONNECTOR (GROUND CIRCUIT)

OK

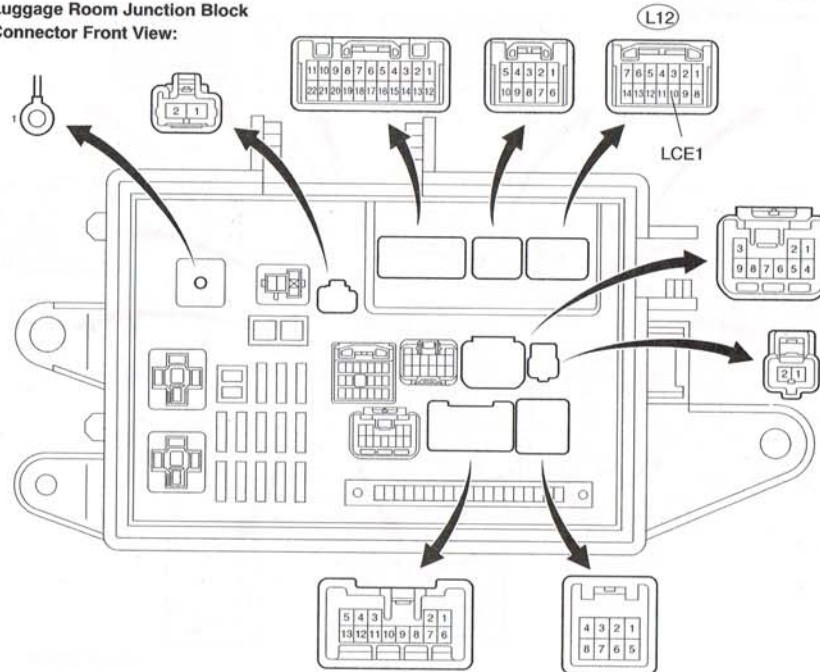
REPAIR OR REPLACE HARNESS OR CONNECTOR (EACH OF TAILLAMP CIRCUIT)

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
L12-10 - Body ground	Light control switch in except TAIL position	10 to 14 V
L12-10 - Body ground	Light control switch in TAIL position	Below 1 V

Luggage Room Junction Block Connector Front View:

E70400

NG Go to step 15

OK

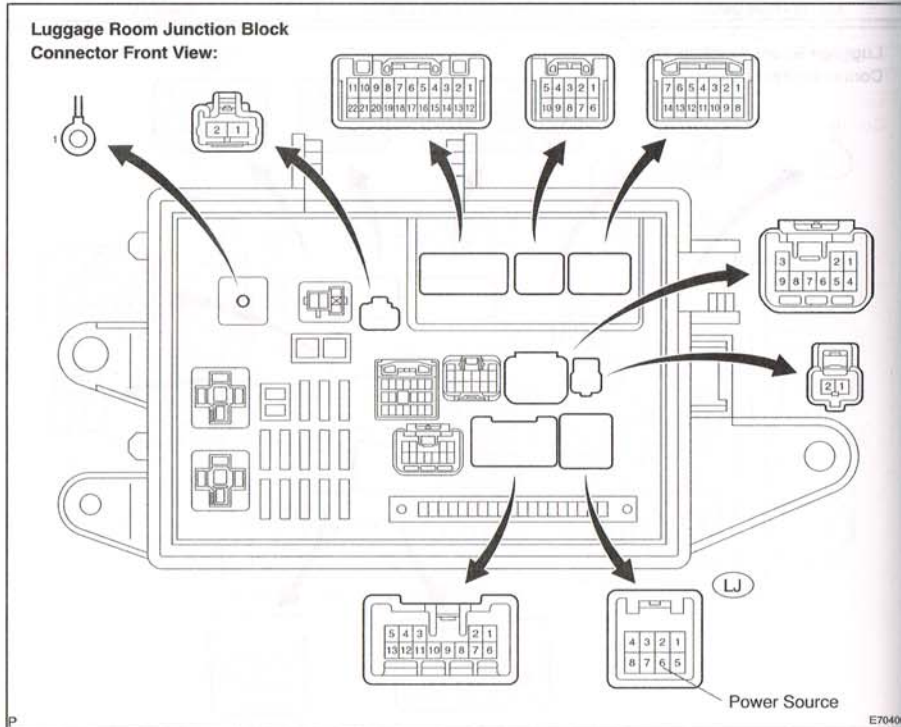
PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-1393)

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

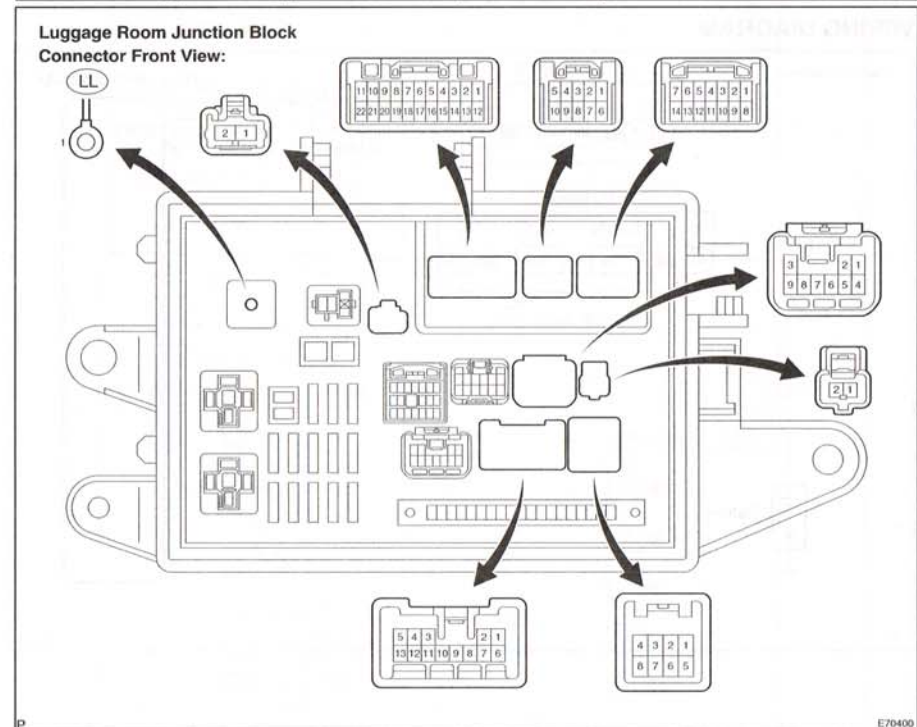
REPAIR OR REPLACE HARNESS OR CONNECTOR (LICENSE PLATE LAMP CIRCUIT)

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 14 V



NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-1393)