TOYOTA SERVICE BULLETIN

Group: 09 No.: 36 Date: Oct, 13

Land Cruiser 200

Corrections to Repair Manual RM19U1E

Please ensure these pages are distributed to all relevant staff for their information; and a copy made available for future reference, with the above repair manual.

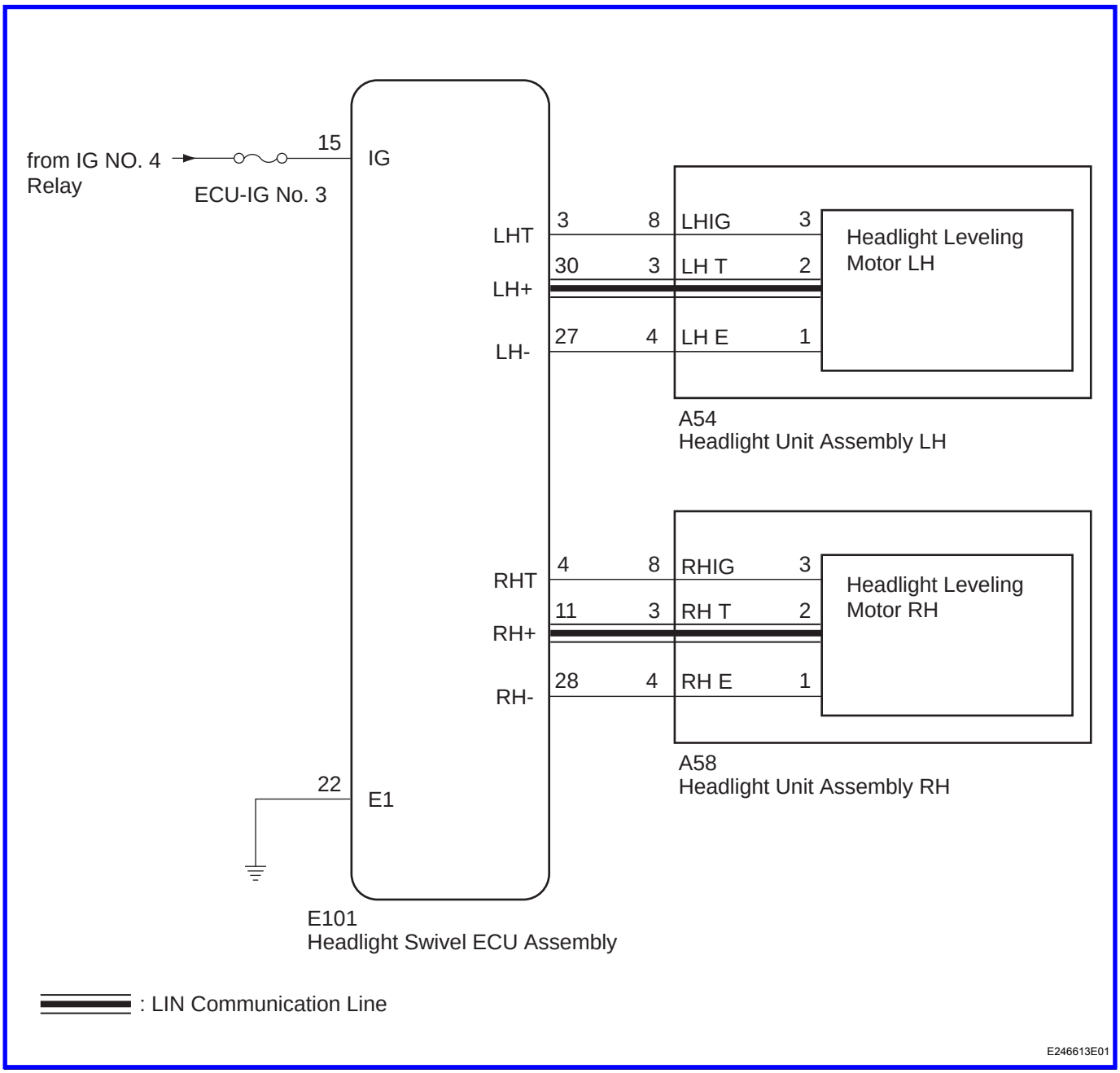
Section	Title	Paragraph
LIGHTING (EXT)	LIGHTING SYSTEM	B2424

The revised pages listed above are attached.
(The corrected parts are indicated by arrows.)

This Bulletin does not cause the Flat Rate Manual to be changed.

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WIRING DIAGRAM



INSPECTION PROCEDURE

[Corrected]

NOTICE:

- **Inspect the fuses for circuits related to this system before performing the following inspection procedure.**
- **After replacing the headlight swivel ECU, initialization of the ECU is necessary (except w/ Dynamic Headlight Auto Leveling) (See page LE-41).**

1	**CHECK FOR DTC**

(a) Clear the DTCs (See page LE-62).
(b) Check for DTCs (See page LE-62).
OK:
DTC B2424 or B2425 output does not occur.

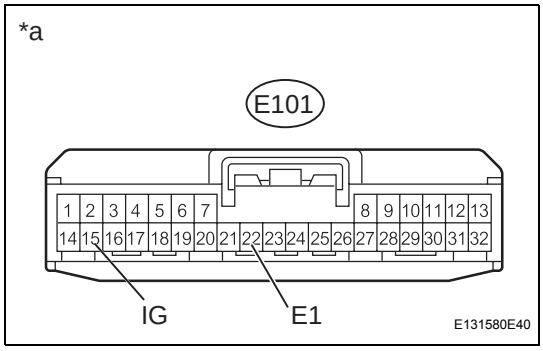
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NG → Go to step 2

OK

USE SIMULATION METHOD TO CHECK (See page)

2 CHECK HARNESS AND CONNECTOR (HEADLIGHT SWIVEL ECU ASSEMBLY - BATTERY AND BODY GROUND)



(a) Disconnect the headlight swivel ECU connector.
(b) Measure the voltage according to the value(s) in the table below.
Standard Voltage

Tester Connection	Switch Condition	Specified Condition
E101-15 (IG) - Body ground	Ignition switch ON	11 to 14 V

(c) Measure the resistance according to the value(s) in the table below.
Standard Resistance

Tester Connection	Condition	Specified Condition
E101-22 (E1) - Body ground	Always	Below 1 Ω

Text in Illustration

*a	Front view of wire harness connector (to Headlight Swivel ECU Assembly)

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

3 CHECK HARNESS AND CONNECTOR (HEADLIGHT SWIVEL ECU ASSEMBLY - HEADLIGHT UNIT ASSEMBLY)

(a) Disconnect the E101 headlight swivel ECU connector.
(b) Disconnect the A54*1 or A58*2 headlight unit connector.
*1: for LH
*2: for RH
(c) Measure the resistance according to the value(s) in the table below.
Standard Resistance:
for LH

[Corrected]

Tester Connection	Condition	Specified Condition
E101-3 (LHT) - A54-8 (LHIG)	Always	Below 1 Ω
E101-30 (LH+) - A54-3 (LH T)	Always	Below 1 Ω
E101-27 (LH-) - A54-4 (LH E)	Always	Below 1 Ω

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[Corrected]

Tester Connection	Condition	Specified Condition
E101-3 (LHT) - Body ground	Always	10 kΩ or higher
E101-30 (LH+) - Body ground	Always	10 kΩ or higher
E101-27 (LH-) - Body ground	Always	10 kΩ or higher

for RH

[Corrected]

Tester Connection	Condition	Specified Condition
E101-4 (RHT) - A58-8 (RHIG)	Always	Below 1 Ω
E101-11 (RH+) - A58-3 (RH T)	Always	Below 1 Ω
E101-28 (RH-) - A58-4 (RH E)	Always	Below 1 Ω
E101-4 (RHT) - Body ground	Always	10 kΩ or higher
E101-11 (RH+) - Body ground	Always	10 kΩ or higher
E101-28 (RH-) - Body ground	Always	10 kΩ or higher

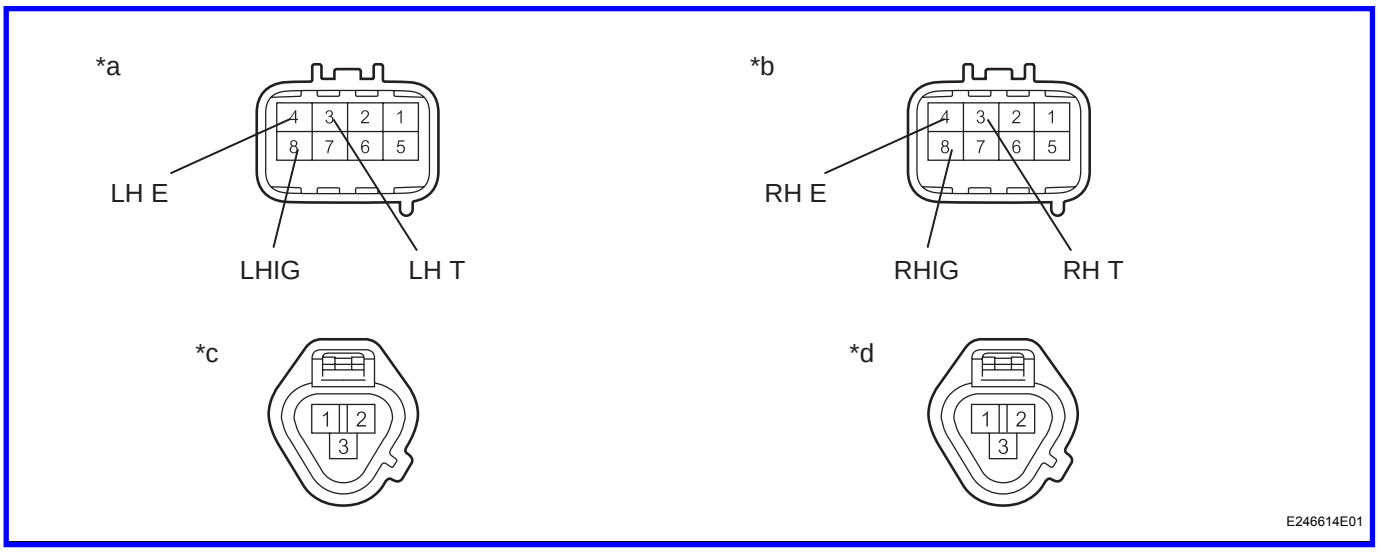
NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

LE

OK

4	INSPECT HEADLIGHT UNIT ASSEMBLY

(a) Remove the headlight unit (See page ○○-○○). [Corrected]



Text in Illustration

*a	Component without harness connected (Headlight Unit Assembly LH)	*b	Component without harness connected (Headlight Unit Assembly RH)
*c	Front view of wire harness connector (to Headlight Leveling Motor LH)	*d	Front view of wire harness connector (to Headlight Leveling Motor RH)

(b) Disconnect the headlight leveling motor connector.
(c) Measure the resistance according to the value(s) in the table below.

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Standard Resistance:
for LH

[Corrected]

Tester Connection	Condition	Specified Condition
8 (LHIG) - 3	Always	Below 1 Ω
3 (LH T) - 2		
4 (LH E) - 1		

for RH

[Corrected]

Tester Connection	Condition	Specified Condition
8 (RHIG) - 3	Always	Below 1 Ω
3 (RH T) - 2		
4 (RH E) - 1		

NG → **REPLACE HEADLIGHT UNIT ASSEMBLY (See page)**

OK

5 CHECK HEADLIGHT LEVELING MOTOR

(a) Temporarily replace the headlight leveling motor with a new or normally functioning one (See page ○○-○○).
(b) Check for DTCs (See page LE-62).
OK:
DTC B2424 or B2425 output does not occur.
Result

Result	Proceed to
OK	A
NG (for LHD)	B
NG (for RHD)	C

B → **REPLACE HEADLIGHT SWIVEL ECU ASSEMBLY (See page)**

C → **REPLACE HEADLIGHT SWIVEL ECU ASSEMBLY (See page)**

A

END (HEADLIGHT LEVELING MOTOR WAS DEFECTIVE)

LE

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