BODY ELECTRICAL SYSTEM

PRECAUTION

BE03M-01

Take care to observe the following precautions when performing inspections or removal and replacement of body electrical related parts.

1. HEADLIGHT SYSTEM

Halogen bulbs have pressurized gas inside and require special handling. They can burst if scratched or dropped. Hold a bulb only by its plastic or metal case. Don't touch the glass part of a bulb with bare hands.

2. SRS (SUPPLEMENTAL RESTRAINT SYSTEM)

The HILUX is equipped with an SRS (Supplemental Restraint System) such as the driver airbag and front passenger airbag. Failure to carry out service operation in the correct sequence could cause the SRS to unexpectedly deploy during servicing, possibly leading to a serious accident. Before such servicing (including removal or installation of parts, inspection or replacement), be sure to read the precautionary notice in the RS section.

3. AUDIO SYSTEM

If the negative (–) terminal cable is disconnected from the battery, the preset AM, FM 1 and FM 2 stations stored in memory are erased, so be sure to note the stations and reset them after the negative (–) terminal cable is reconnected to the battery.

PROBLEM SYMPTOMS TABLE

BE08N-01

1. HEADLIGHT AND TAILLIGHT SYSTEM

Symptom	Suspect Area	See page
Headlight does not light. (Taillight is normal)	1. HEAD–(LH, RH) Fuse 2. Headlight Bulb 3. Wire Harness	– – –
Headlight does not light. (Taillight does not light up)	1. HEAD–(LH, RH) Fuse 2. HEAD Relay 3. Headlight Bulb 4. Wire Harness	– BE–20 – –
Only one side light does not light.	1. HEAD–(LH, RH) Fuse 2. Headlight Bulb 3. Wire Harness	– – –
"Lo–Beam" does not light.	1. Headlight Bulb 2. Light Control Switch 3. Wire Harness	– BE–20 –
"Hi–Beam" does not light.	1. Headlight Dimmer Switch 2. Light Control Switch 3. Wire Harness	BE–20 BE–20 –
"Flash" does not light.	1. Headlight Dimmer Switch 2. Wire Harness	BE–20 –
Taillight does not light. (Headlight does not light)	1. Light Control Switch 2. Integration Relay 3. Wire Harness	BE–20 BE–13 –
Taillight does not light. (Headlight is normal)	1. TAIL Fuse 2. TAIL Relay 3. Light Control Switch 4. Integration Relay 5. Wire Harness	– BE–20 BE–20 BE–13 –
Only one side light does not light.	1. Bulb 2. Wire Harness	– –
Rear Combination light does not light.	1. Bulb 2. Wire Harness	– –

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2. HEADLIGHT AND TAILLIGHT SYSTEM (w/ Daytime Running Light)

Symptom	Suspect Area	See page
Headlight does not light. (Taillight is normal)	1. Wire Harness	–
Headlight does not light. (Taillight does not light up)	1. Wire Harness	–
Only one side light does not light.	1. Headlight Bulb 2. HEAD LO (LH, RH) Fuse 3. Wire Harness	– – –
"Lo–Beam" does not light.	1. Headlight Bulb 2. HEAD LO (LH, RH) Fuse 3. HEAD Relay 4. Light Control Switch 5. Wire Harness	– – BE–20 BE–20 –

"Hi–Beam" does not light.	1. Headlight Bulb 2. ECU–B Fuse 3. HEAD HI (LH, RH) Fuse 4. Daytime Running Light Relay 5. Headlight Dimmer Switch 6. Wire Harness	– – – BE–20 BE–20 –
"Flash" does not light.	1. Headlight Bulb 2. ECU–B Fuse 3. HEAD HI (LH, RH) Fuse 4. Daytime Running Light Relay (Main) 5. Headlight Dimmer Switch 6. Wire Harness	– – – BE–20 BE–20 –
Headlight does not light with engine running and light control SW OFF.	1. Headlight Bulb 2. ECU–B Fuse 3. GAUGE Fuse 4. HEAD HI (LH, RH) Fuse 5. Daytime Running Light Relay 6. Wire Harness 7. Generator L Terminal	– – – – BE–20 – –
Taillight does not light. (Headlight does not light)	1. Light Control Switch 2. Wire Harness	BE–20 –
Taillight does not light. (Headlight is normal)	1. TAIL Fuse 2. TAIL Relay 3. Light Control Switch 4. Wire Harness	– BE–20 BE–20 –
Only one side light does not light.	1. Bulb 2. Wire Harness	– –
Rear Combination light does not light.	1. Bulb 2. Wire Harness	– –

3. HEADLIGHT AND TAILLIGHT SYSTEM (w/ Dim–Dip Light)

Symptom	Suspect Area	See page
Headlight does not light. (Taillight is normal)	1. Wire Harness	–
Headlight does not light. (Taillight does not light up)	1. Wire Harness	–
Only one side light does not light.	1. Headlight Bulb 2. HEAD LO (LH, RH) Fuse 3. Wire Harness	– – –
"Lo–Beam" does not light.	1. Headlight Bulb 2. HEAD LO (LH, RH) Fuse 3. HEAD Relay 4. Light control Switch 5. Wire Harness	– – BE–20 BE–20 –
"Hi–Beam" does not light.	1. Headlight Bulb 2. ECU–B Fuse 3. HEAD HI (LH, RH) Fuse 4. Dim–Dip Light Relay No.2 5. Dim–Dip Light Relay No.3 6. Dim–Dip Light Relay 7. Headlight Dimmer Switch 8. Wire Harness	– – – BE–20 BE–20 BE–20 BE–20 –

BE

"Flash" does not light.	1. Headlight Bulb 2. ECU–B Fuse 3. HEAD HI (LH, RH) Fuse 4. Dim–Dip Light Relay No.2 5. Dim–Dip Light Relay No.3 6. Dim–Dip Light Relay 7. Headlight Dimmer Switch 8. Wire Harness	– – – BE–20 BE–20 BE–20 BE–20 –
Headlight does not light with engine running and light control SW OFF.	1. Headlight Bulb 2. ECU–B Fuse 3. GAUGE Fuse 4. HEAD HI (LH, RH) Fuse 5. Daytime Running Light Relay 6. Wire Harness	– – – – BE–20 –
Taillight does not light. (Headlight does not light)	1. Light Control Switch 2. Wire Harness	BE–20 –
Taillight does not light. (Headlight is normal)	1. TAIL Fuse 2. TAIL Relay 3. Light Control Switch 4. Wire Harness	– BE–20 BE–20 –
Only one side light does not light.	1. Bulb 2. Wire Harness	– –
Rear Combination light does not light.	1. Bulb 2. Wire Harness	– –

4. HEADLIGHT BEAM LEVEL CONTROL SYSTEM

Symptom	Suspect Area	See page
Headlight beam level control system does not operate. (All)	1. HEAD (Lo) RH Fuse 2. HEAD Relay 3. Headlight Beam Level Control Switch 4. Headlight Beam Level Control Actuator 5. Wire Harness	– BE–27 BE–27 BE–27 –
Headlight beam level control system does not operate. (One side)	1. Headlight Beam Level Control Actuator 2. Wire Harness	BE–27 –
Abnormal operation. (All)	1. Headlight Beam Level Control Switch 2. Headlight Beam Level Control Actuator 3. Wire Harness	BE–27 BE–27 –
Abnormal operation. (One side)	1. Headlight Beam Level Control Actuator 2. Wire Harness	BE–27 –

5. REAR FOG LIGHT SYSTEM

HINT:

With rear fog light switch ON, when the ignition switch is turned OFF, even if turning the ignition switch ON again, rear fog light does not light up.

Symptom	Suspect Area	See page
Rear fog light does not light with light control switch HEAD. (Headlight is normal)	1. Bulb 2. ECU–B Fuse 3. Rear Fog Light Switch 4. Wire Harness	– – BE–29 –
Rear fog light does not light with light control switch HEAD. (Headlight does not light)	1. Headlight and Taillight System 2. Wire Harness	BE–20 –

6. TURN SIGNAL AND HAZARD WARNING SYSTEM

Symptom	Suspect Area	See page
"Hazard" and "Turn" do not light.	1. Hazard Warning Switch 2. Turn Signal Flasher 3. Wire Harness	BE–31 BE–31 –
The flashing frequency is abnormal.	1. Bulb 2. Turn Signal Switch 3. Wire Harness	– BE–31 –
Hazard warning light does not light. (Turn signal is normal.)	1. HORN Fuse 2. Wire Harness	– –
Hazard warning light does not light up in one direction.	1. Hazard Warning Switch 2. Wire Harness	BE–31 –
Turn signal does not light. (Combination meter, wiper and washer do not operate.)	1. Ignition Switch 2. TURN Fuse 3. Turn Signal Switch 4. Wire Harness	BE–13 – BE–31 –
Turn signal does not light. (Combination meter, wiper and washer are normal.)	1. TURN Fuse 2. Turn Signal Switch 3. Wire Harness	– BE–31 –
Turn signal does not light up in one direction.	1. Turn Signal Switch 2. Wire Harness	BE–31 –
Only one bulb does not light.	1. Bulb 2. Wire Harness	– –

7. INTERIOR LIGHT SYSTEM

Symptom	Suspect Area	See page
Room Light does not light.	1. DOME Fuse 2. Integration Relay 3. Room Light Switch 4. Door Courtesy Switch 5. Bulb 6. Wire Harness	– BE–13 BE–33 BE–33 – –
Room Light remains always ON.	1. Room Light Switch 2. Door Courtesy Switch 3. Wire Harness	BE–33 BE–33 –

8. BACK–UP LIGHT SYSTEM

Symptom	Suspect Area	See page
Back–Up Light does not light.	1. GAUGE Fuse 2. Ignition Switch 3. Wire Harness 4. Bulb	– BE–13 – –
Back–Up Light remains always ON.	1. Back–Up Light Switch (M/T) 2. Park/Neutral Position Switch (A/T) 3. Wire Harness	BE–35 BE–37 –
Only one light does not light.	1. Bulb 2. Wire Harness	– –

9. STOP LIGHT SYSTEM

Symptom	Suspect Area	See page
Stop light does not light.	1. STOP Fuse 2. Stop Light Switch 3. Wire Harness	– BE–37 –

BE

Only one light always lights up.	1. Wire Harness	–
Only one light does not light.	1. Bulb 2. Wire Harness	– –

10. HEADLIGHT CLEANER SYSTEM

Symptom	Suspect Area	See page
"Headlight Cleaner System" does not operate. (Headlight control switch is in HAED position)	1. AM 1 Fuse 2. WIPER Fuse 3. Headlight Cleaner Switch 4. Headlight Cleaner Relay 5. Headlight Cleaner Motor 6. Headlight Cleaner Nozzle and Hose 7. Wire Harness	– – BE–39 BE–39 BE–39 – –
Washer fluid does not spray.	1. Headlight Cleaner Nozzle and Hose	

11. WIPER AND WASHER SYSTEM

Symptom	Suspect Area	See page
Wipers and washer do not operate.	1. WIPER Fuse (I/P J/B No.1) 2. Wiper Switch 3. Wiper Motor 4. Wire Harness	– BE–41 BE–41 –
Wipers do not operate in LO or HI position.	1. Wiper Switch 2. Wiper Motor 3. Wire Harness	BE–41 BE–41 –
Wipers do not operate in INT or MIST position.	1. Wiper Switch 2. Wiper Motor 3. Wire Harness	BE–41 BE–41 –
Washer motor does not operate.	1. Washer Switch 2. Washer Motor 3. Wire Harness	BE–41 BE–41 –
Wipers do not operate when washer switch in ON.	1. Washer Motor 2. Wire Harness	BE–41 –
Washer fluid does not operate.	1. Washer Hose and Nozzle	–
• At wiper switch HI position, the wiper blade is in contact with the body. • When the wiper switch is OFF, the wiper blade does not retract or the retract position wrong.	1. Wiper arm and blade 2. Wiper Switch 3. Wire Harness	BE–41 BE–41 –

BE

12. METER, GAUGES AND ILLUMINATION: COMBINATION METER

Symptom	Suspect Area	See page
Tachometer, Fuel Gauge and Water Temperature Gauge do not operate.	1. GAUGE Fuse 2. Meter Circuit Plate 3. Wire Harness	– BE–48 –
Speedometer does not operate.	1. Meter Circuit 2. Wire Harness	BE–48 –
Tachometer does not operate.	1. Igniter (Gasoline Engine) 2. Tacho Pick–up Sensor (Diesel Engine) 3. Meter Circuit Plate 4. Wire Harness	– BE–50 BE–48 –
Fuel Gauge does not operate or operation abnormally.	1. Fuel Receiver Gauge 2. Fuel Sender Gauge 3. Meter Circuit Plate 4. Wire Harness	BE–50 BE–50 BE–48 –

Water Temperature Gauge does not operate or operation abnormally.	1. Water Temperature Receiver Gauge 2. Water Temperature Sender Gauge 3. Meter Circuit Plate 4. Wire Harness	BE–50 BE–50 BE–48 –
All illumination lights do not light.	1. TAIL Fuse 2. Light Control Rheostat 3. Wire Harness	– BE–50 –
Brightness does not change even when rheostat turned.	1. Bulb 2. Wire Harness	– –
Only one illumination light does not light.	1. Bulb 2. Wire Harness	– –

13. WARNING LIGHT: COMBINATION METER

Symptom	Suspect Area	See page
Warning light does not light. (Except Discharge, Open Door and SRS)	1. GAUGE Fuse 2. Meter Circuit Plate 3. Wire Harness	– BE–48 –
Low Oil Pressure warning light does not light.	1. Bulb 2. Low Oil Pressure Warning Switch 3. Meter Circuit Plate 4. Wire Harness	– BE–50 BE–48 –
Fuel Level warning light does not light.	1. Bulb 2. Fuel Level Warning Switch 3. Meter Circuit Plate 4. Wire Harness	– BE–50 BE–48 –
ABS warning light does not light.	1. Bulb 2. ABS ECU 3. Wire Harness	– DI–98 –
Seat Belt warning light does not light.	1. Bulb 2. Seat Belt Buckle Switch 3. Integration Relay (I/P J/B No.1) 4. Wire Harness	– BE–50 BE–13 –
Discharge warning light does not light.	1. IGN Fuse (I/P J/B No.1) 2. Bulb 3. Wire Harness 4. Generator	– – – –
Turbo warning light does not light.	1. Bulb 2. Meter Circuit 3. Turbo Pressure Switch 4. Wire Harness	– BE–48 BE–50 –
Timing belt warning light does not light.	1. Bulb 2. Speedometer 3. Wire Harness	– BE–50 –
Fuel filter warning light does not light.	1. Bulb 2. Meter Circuit 3. Fuel Sedimenter Switch 4. Wire Harness	– BE–48 BE–50 –
Brake warning light does not light.	1. Bulb 2. Parking Brake Switch 3. Brake Fluid Level Warning Switch 4. Bulb Check Relay 5. Meter Circuit 6. Wire Harness	– BE–50 BE–50 BE–50 BE–48 –

SRS Warning light does not light.	1. ECU–B Fuse (E/G Room J/B No.2) 2. Bulb 3. Airbag Sensor Assembly 4. Meter Circuit 5. Wire Harness	– – DI–183 BE–48 –
Open Door warning light does not light.	1. DOME Fuse (E/G Room J/B No.2) 2. Bulb 3. Door Courtesy Switch 4. Meter Circuit 5. Wire Harness	– – BE–33 BE–48 –
Engine Oil Level warning light does not light.	1. Bulb 2. Engine Oil Level Sensor 3. Meter Circuit 4. Wire Harness	– BE–50 BE–48 –

14. INDICATOR LIGHTS: COMBINATION METER

Symptom	Suspect Area	See page
O/D OFF indicator light does not light.	1. Bulb 2. O/D OFF Switch 3. Meter Circuit 4. Wire Harness	– DI–46 BE–48 –
4WD indicator light does not light.	1. Bulb 2. Transfer 4WD position Switch RF1A VF1A 3. Meter Circuit 4. Wire Harness	– TR–7 TR–10 BE–48 –
High beam indicator light does not light.	1. Bulb 2. Meter Circuit 3. Wire Harness 4. Headlight System	– BE–48 – BE–20
Turn indicator light does not light.	1. Bulb 2. Meter Circuit 3. Wire Harness 4. Turn Signal and Hazard Warning System	– BE–48 – BE–31
Rear differential lock indicator lights do not light.	1. Bulb 2. Meter Circuit 3. Rear Differential Lock Control Switch 4. Wire Harness	– BE–48 SA–254 –
Check Engine indicator light does not light.	1. Bulb 2. Engine ECU 3. Meter Circuit 4. Wire Harness	– – BE–48 –
Glow indicator light does not light.	1. Bulb 2. Pre–Heating Timer 3. Meter Circuit 4. Wire Harness	– – BE–48 –
Rear fog light indicator light does not light.	1. Bulb 2. Rear Fog Light Switch 3. Meter Circuit 4. Wire Harness	– BE–29 BE–48 –

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15. DEFOGGER SYSTEM

Symptom	Suspect Area	See page
All defogger systems do not operate.	1. DEFOG Fuse	–
	2. GAUGE Fuse	–
	3. Defogger Relay	BE–65
	4. Defogger Switch	BE–65
	5. Wire Harness	–
Rear window defogger does not operate.	1. Defogger Wire	BE–65
	2. Wire Harness	–

16. POWER WINDOW CONTROL SYSTEM

Symptom	Suspect Area	See page
Power window does not operate (ALL). (Power Door Lock does not operate)	1. POWER M–Fuse (I/P J/B No.1)	–
	2. Power Main Relay (I/P J/B No.1)	BE–68
	3. Wire Harness	–
Power window does not operate (ALL). (Power Door Lock is normal)	1. Ignition Switch	BE–13
	2. Power Window Master Switch	BE–68
	3. Wire Harness	–
"One Touch Power Window System" does not operate.	1. Power Window Master Switch	BE–68
Only one window glass does not move.	1. Power Window Master Switch	BE–68
	2. Power WIndow Switch	BE–68
	3. Power Window Motor	BE–68
	4. Wire Harness	–
"Window Lock System" does not operate.	1. Power Window Master Switch	BE–68
"Window Lock Illumination" does not light up.	1. Power Window Master Switch	BE–68

17. POWER DOOR LOCK CONTROL SYSTEM

Symptom	Suspect Area	See page
"Door lock system" does not operate at all.	1. POWER M–Fuse	–
	2. CIG Fuse	–
	3. DOOR Fuse	–
	4. Integration Relay	BE–13
	5. Wire Harness	–
Door lock system does not operate by manual switch.	1. Power Window Master Switch	BE–79
	2. Door Lock Manual Switch	BE–79
	3. Integration Relay	BE–13
	4. Wire Harness	–
Door lock system does not operate by door key.	1. Door Key Lock and Unlock Switch	BE–79
	2. Integration Relay	BE–13
	3. Wire Harness	–
	4. Door Lock Link Disconnected	–
Fault in key confine prevention operate.	1. Integration Relay	BE–13
	2. Key Unlock Warning Switch	BE–79
	3. Door Courtesy Switch	BE–33
	4. Wire Harness	–
Only one door lock does not operate.	1. Door Lock Motor	BE–79
	2. Wire Harness	–

18. SEAT HEATER SYSTEM

Symptom	Suspect Area	See page
Seat heater does not operate. (Each Side)	1. SEAT–HTR Fuse	–
	2. Wire Harness	–

Driver's seat heater does not operate.	1. Seat Heater Switch (Driver's side) 2. Seat Heater 3. Wire Harness	BE–87 BE–87 –
Passenger's seat heater does not operate.	1. Seat Heater Switch (Passenger's Side) 2. Seat Heater 3. Wire Harness	BE–87 BE–87 –
Seat heater temperature is too hot.	1. Seat Heater	BE–87

19. POWER MIRROR CONTROL SYSTEM

Symptom	Suspect Area	See page
Mirror does not operate.	1. CIG Fuse (I/P J/B No.1) 2. Mirror Switch 3. Mirror Motor 4. Wire Harness	– BE–83 BE–83 –
Mirror operates abnormally.	1. Mirror Switch 2. Mirror Motor 3. Wire Harness	BE–83 BE–83 –