

TROUBLESHOOTING (Except Double Cab)

BE2JX-02

PROBLEM SYMPTOMS TABLE

POWER OUTLET

Symptom	Suspected Area	See Page
Electric power source cannot be out of the power outlet.	1. PWR OUTLET1 Fuse 2. PWR OUTLET2 Fuse 3. ECU-B Fuse 4. DOME Fuse 5. POWER OUTLET Relay 6. ACC CUT Relay 7. Ignition Switch 8. Wire Harness	BE-29 BE-29 BE-29 BE-29 BE-34 BE-34 BE-37 –

IGNITION SWITCH AND KEY UNLOCK WARNING SWITCH

Symptom	Suspected Area	See Page
Ignition switch cannot be turned to any position.	1. Ignition Switch 2. Power Source Circuit	BE-37 –
Key unlock warning system does not operate.	1. DOME Fuse 2. Key Unlock Warning Switch 3. Door Courtesy Switch 4. Meter Circuit Plate 5. Wire Harness 6. Integration Relay (Driver Side J/B)	BE-29 BE-37 BE-61 BE-82 – BE-41

w/ Daytime running light:

HEADLIGHT AND TAILLIGHT SYSTEM

Symptom	Suspected Area	See Page
Only one headlight does not light up.	1. HEAD (LL, RL, LH, RH) Fuse 2. Bulb 3. Wire Harness	BE-29 – –
Both headlights do not light up.	1. HEAD (LL, RL, LH, RH) Fuse 2. TAIL Fuse 3. ECU-IG Fuse 4. H-LP Relay 5. DIMMER Relay 6. DRL NO. 4 Relay 7. Daytime Running Light Resistor 8. Light Control Switch 9. Bulb 10. Integration Relay 11. Wire Harness	BE-29 BE-29 BE-29 BE-41 BE-41 BE-41 BE-41 BE-41 BE-41 –
Lo-beam does not operate on one side.	1. HEAD (LL, RL) Fuse 2. Bulb 3. Wire Harness	BE-29 – –
Lo-beam does not operate on both sides.	1. DIMMER Relay 2. Headlight Dimmer Switch 3. Wire Harness	BE-41 BE-41 –
Hi-beam does not operate on one side.	1. H-LP (LH, RH) Fuse 2. Bulb 3. Wire Harness	BE-29 – –
Hi-beam does not operate on both sides.	1. DIMMER Relay 2. Headlight Dimmer Switch 3. Wire Harness	BE-41 BE-41 –

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Flash does not operate.	1. Headlight Dimmer Switch 2. Integration Relay 3. Bulb 4. Wire Harness	BE-41 BE-41 – –
Headlight flickers.	1. Bulb 2. Integration Relay 3. Wire Harness	– BE-41 –
Headlight is dark.	1. Bulb 2. Integration Relay 3. Wire Harness	– BE-41 –
Headlights do not light up while engine is running, light control switch is OFF and parking brake is released.	1. TAIL Fuse 2. ECU-IG Fuse 3. Parking Brake Switch 4. Integration Relay 5. Generator 6. Wire Harness	BE-29 BE-29 BE-86 BE-41 – –
Only one taillight does not light up.	1. Bulb 2. Wire Harness	– –
Taillights do not light up with light control switch in TAIL position.	1. TAIL Fuse 2. Light Control Switch 3. Integration Relay 4. Bulb 5. Wire Harness	BE-29 BE-41 BE-41 – –

w/o Daytime running light:**HEADLIGHT AND TAILLIGHT SYSTEM**

Symptom	Suspected Area	See Page
Only one headlight does not light up.	1. HEAD (LH, RH) Fuse 2. Bulb 3. Wire Harness	BE-29 – –
Both headlights do not light up.	1. HEAD (LH, RH) Fuse 2. H-LP Relay 3. Light Control Switch 4. Bulb 5. Integration Relay 6. Wire Harness	BE-29 BE-41 BE-41 – BE-41 –
Lo-beam does not operate on one side.	1. Bulb 2. Wire Harness	– –
Lo-beam does not operate on both sides.	1. Headlight Dimmer Switch 2. Wire Harness	BE-41 –
Hi-beam does not operate on one side.	1. Bulb 2. Wire Harness	– –
Hi-beam does not operate on both sides.	1. Headlight Dimmer Switch 2. Wire Harness	BE-41 –
Flash does not operate.	1. Headlight Dimmer Switch 2. Wire Harness	BE-41 –
Headlight flickers.	1. Bulb 2. Integration Relay 3. Wire Harness	– BE-41 –
Headlight is dark.	1. Bulb 2. Integration Relay 3. Wire Harness	– BE-41 –

Only one taillight does not light up.	1. Bulb 2. Wire Harness	– –
Taillights do not light up with light control switch in TAIL position.	1. TAIL Fuse 2. Light Control Switch 3. Integration Relay 4. Bulb 5. Wire Harness	BE-29 BE-41 BE-41 – –

FOG LIGHT SYSTEM

Symptom	Suspected Area	See Page
Fog lights do not light up with light control switch in HEAD position. Headlights are normal.	1. FOG Fuse 2. FOG Relay 3. Fog Light Switch 4. Integration Relay 5. Wire Harness	BE-29 BE-49 BE-49 BE-41 –
Fog lights do not light up with light control switch in HEAD position. Headlights do not light up.	1. Other Parts* 2. Wire Harness	– –
Only one fog light does not light up.	1. Bulb 2. Wire Harness	– –

HINT:

*: Inspect the headlight system.

TURN SIGNAL LIGHT AND HAZARD WARNING LIGHT SYSTEM

Symptom	Suspected Area	See Page
Hazard warning lights and turn signal lights do not flash.	1. TURN Fuse 2. HAZ Fuse 3. Ignition Switch 4. Turn Signal Switch 5. Turn Signal Flasher Relay 6. Wire Harness	BE-29 BE-29 BE-37 BE-53 BE-53 –
Hazard warning lights do not flash. Turn signal lights are normal.	1. Hazard Warning Switch 2. Wire Harness	BE-53 –
Turn signal lights do not flash.	1. Turn Signal Flasher Relay 2. Wire Harness	BE-53 –
Turn signal lights do not flash on one side.	1. Turn Signal Switch 2. Wire Harness	BE-53 –
Only one bulb does not flash.	1. Bulb 2. Wire Harness	– –

INTERIOR LIGHT SYSTEM

Symptom	Suspected Area	See Page
All lights do not light up.	DOMES Fuse	BE-29
Light does not light up when driver's door is opened.	1. Driver's Door Courtesy Switch 2. Wire Harness	BE-61 –
Light does not light up when passenger's door is opened.	1. Passenger's Door Courtesy Switch 2. Wire Harness	BE-61 –
Light does not light up when RH access door is opened.	1. RH Access Door Courtesy Switch 2. Wire Harness	BE-61 –
Light does not light up when LH access door is opened.	1. LH Access Door Courtesy Switch 2. Wire Harness	BE-61 –
Light does not fade out when all doors are closed.	1. Courtesy Switch 2. Wire Harness	BE-61 –
Light does not fade out when all doors are locked within 15 seconds after they are closed.	1. Door Unlock Detection Switch 2. Wire Harness	BE-128 –

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Personal light does not light up.	<ol style="list-style-type: none"> 1. DOME Fuse 2. Bulb 3. Front Personal Light 4. Wire Harness 	BE-29 – BE-128 –
Vanity light does not light up.	<ol style="list-style-type: none"> 1. DOME Fuse 2. Bulb 3. Vanity Light 4. Wire Harness 	BE-29 – BE-128 –
Door courtesy light does not light up.	<ol style="list-style-type: none"> 1. DOME Fuse 2. Bulb 3. Door Courtesy Switch 4. Wire Harness 	BE-29 – BE-128 –

BACK-UP LIGHT SYSTEM

Symptom	Suspected Area	See Page
Back-up lights do not light up.	<ol style="list-style-type: none"> 1. GAUGE Fuse 2. Bulb 3. Ignition Switch 4. Back-up Light Switch (M/T) 5. Park/neutral Position Switch (A/T) 6. BACK-UP Light Relay (A/T) 7. Wire Harness 	BE-29 – BE-37 BE-67 BE-67 BE-67 –
Back-up lights remain on.	<ol style="list-style-type: none"> 1. Back-up Light Switch (M/T) 2. Park/neutral Position Switch (A/T) 3. Wire Harness 	BE-67 BE-67 –
Only one light does not light up.	<ol style="list-style-type: none"> 1. Bulb 2. Wire Harness 	– –

STOP LIGHT SYSTEM

Symptom	Suspected Area	See Page
Stop lights do not light up.	<ol style="list-style-type: none"> 1. STOP Fuse 2. Stop Light Switch 3. Wire Harness 	BE-29 BE-70 –
Stop lights remain on.	<ol style="list-style-type: none"> 1. Stop Light Switch 2. Wire Harness 	BE-70 –
Only one light does not light up.	<ol style="list-style-type: none"> 1. Bulb 2. Wire Harness 	– –

CARGO LIGHT SYSTEM

Symptom	Suspected Area	See Page
Cargo light does not light up.	<ol style="list-style-type: none"> 1. CARGO LP Fuse 2. Bulb 3. Cargo Light Switch 4. Integration Relay 5. Wire Harness 	BE-29 – BE-72 BE-128 –

WIPER AND WASHER SYSTEM

Symptom	Suspected Area	See Page
Wipers and washer do not operate.	<ol style="list-style-type: none"> 1. WIP Fuse 2. Ignition Switch 3. Wiper and Washer Switch 4. Wire Harness 	BE-29 BE-37 BE-76 –
Wipers do not operate.	<ol style="list-style-type: none"> 1. Wiper and Washer Switch 2. Wiper Motor 3. Wire Harness 	BE-76 BE-76 –

Washer motor does not operate.	1. Wiper and Washer Switch 2. Washer Motor 3. Wire Harness	BE-76 BE-76 –
Washer fluid is not injected	Washer Hose and Nozzles	–

COMBINATION METER (Meter, Gauges and Illumination Lights)

Symptom	Suspected Area	See Page
Tachometer, fuel gauge and engine coolant temperature gauge do not operate.	1. GAUGE Fuse 2. Meter Circuit Plate 3. Wire Harness	BE-29 BE-82 –
Speedometer does not operate.	1. Vehicle Speed Sensor 2. Meter Circuit Plate 3. Wire Harness	BE-86 BE-86 –
Tachometer does not operate.	1. Igniter (1GR-FE) 2. ECM (2UZ-FE) 3. Meter Circuit Plate 4. Wire Harness	– – BE-86 –
Fuel gauge does not operate or operates abnormally.	1. Fuel Receiver Gauge 2. Fuel Sender Gauge 3. Meter Circuit Plate 4. Wire Harness	BE-86 BE-86 BE-82 –
Engine coolant temperature gauge does not operate or operates abnormally.	1. Engine Coolant Temperature Receiver Gauge 2. Engine Coolant Temperature Sender Gauge 3. Meter Circuit Plate 4. Wire Harness	BE-86 BE-86 BE-82 –
Voltmeter does not operate.	1. Voltmeter 2. Meter Circuit Plate 3. Wire Harness	BE-86 BE-82 –
All illumination lights do not light up.	1. TAIL Fuse 2. Light Control Rheostat 3. Integration Relay 4. Wire Harness	BE-29 BE-86 BE-41 –
Brightness does not change even when rheostat is turned.	1. Bulb 2. Light Control Rheostat 3. Wire Harness	– BE-86 –
Only one illumination light does not light up.	1. Bulb 2. Wire Harness	– –

COMBINATION METER (Warning Lights)

Symptom	Suspected Area	See Page
Only discharge warning lights light up. Other warning lights do not light up.	1. LED 2. GAUGE Fuse 3. Meter Circuit Plate 4. Wire Harness	– BE-29 BE-82 –
Low oil pressure warning light does not light up.	1. LED 2. Low Oil Pressure Warning Switch 3. Meter Circuit Plate 4. Wire Harness	– BE-86 BE-82 –
Fuel level warning light does not light up.	1. LED 2. Fuel Level Warning Switch 3. Meter Circuit Plate 4. Wire Harness	– BE-86 BE-82 –

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ABS warning light does not light up.	1. LED 2. Meter Circuit Plate 3. Skid Control ECU 4. Wire Harness	– BE-82 DI-1385 DI-1469 –
Seat belt warning light does not light up.	1. LED 2. Seat Belt Buckle Switch 3. Meter Circuit Plate 4. Wire Harness	– BE-86 BE-82 –
Discharge warning light does not light up.	1. IGN Fuse 2. LED 3. Meter Circuit Plate 4. Wire Harness 5. Generator	BE-29 – BE-82 – –
Brake warning light does not light up.	1. LED 2. Parking Brake Switch 3. Brake Fluid Level Warning Switch 4. Meter Circuit Plate 5. Skid Control ECU 6. Wire Harness	– BE-86 BE-86 BE-82 DI-1385 DI-1469 –
VSC TRAC warning light does not light up.	1. LED 2. Skid Control ECU 3. Meter Circuit Plate 4. Wire Harness	– DI-1385 DI-1469 BE-82 –
ATF temperature warning light does not light up.	1. LED 2. ATF Temperature Sensor 3. ECM 4. Meter Circuit Plate 5. Wire Harness	– DI-999 DI-1166 – BE-82 –
SRS warning light does not light up.	1. LED 2. Airbag Sensor Assembly 3. Meter Circuit Plate 4. Wire Harness	– DI-1827 BE-82 –
Door open warning light does not light up.	1. DOME Fuse 2. LED 3. Door Courtesy Switch 4. Meter Circuit Plate 5. Wire Harness	BE-29 – BE-61 BE-82 –
Washer level warning light does not light up.	1. LED 2. Washer Fluid Level Warning Switch 3. Meter Circuit Plate 4. Wire Harness	– BE-86 BE-82 –

COMBINATION METER (Indicator Lights)

Symptom	Suspected Area	See Page
"4LO" indicator light does not light up.	1. LED 2. 4WD Control ECU (2UZ-FE) 3. Meter Circuit 4. Integration Control Panel 5. Wire Harness	– TR-39 BE-82 AC-83 –

"4HI/4WD" indicator light does not light up.	<ol style="list-style-type: none"> 1. LED 2. A.D.D. Actuator (1GR-FE) 3. 4WD Control ECU (2UZ-FE) 4. Meter Circuit Plate 5. Integration Control Panel 6. Wire Harness 	<p>–</p> <p>TR-39</p> <p>TR-39</p> <p>BE-82</p> <p>AC-83</p> <p>–</p>
O/D OFF indicator light does not light up.	<ol style="list-style-type: none"> 1. LED 2. O/D Main Switch 3. ECM 4. Meter Circuit Plate 5. Wire Harness 	<p>–</p> <p>DI-1102</p> <p>DI-1274</p> <p>DI-9</p> <p>DI-428</p> <p>BE-82</p> <p>–</p>
AUTO LSD indicator light does not light up.	<ol style="list-style-type: none"> 1. LED 2. Skid Control ECU 3. Meter Circuit Plate 4. Wire Harness 	<p>–</p> <p>DI-1385</p> <p>DI-1469</p> <p>BE-82</p> <p>–</p>
VSC OFF indicator light does not light up.	<ol style="list-style-type: none"> 1. LED 2. Skid Control ECU 3. Meter Circuit Plate 4. Wire Harness 	<p>–</p> <p>DI-1385</p> <p>DI-1469</p> <p>BE-82</p> <p>–</p>
SLIP indicator light does not light up.	<ol style="list-style-type: none"> 1. LED 2. Skid Control ECU 3. Meter Circuit Plate 4. Wire Harness 	<p>–</p> <p>DI-1385</p> <p>DI-1469</p> <p>BE-82</p> <p>–</p>
Cruise control indicator light does not light up.	<ol style="list-style-type: none"> 1. LED 2. ECM 3. Meter Circuit Plate 4. Wire Harness 	<p>–</p> <p>DI-9</p> <p>DI-428</p> <p>BE-82</p> <p>–</p>
High-beam indicator light does not light up.	<ol style="list-style-type: none"> 1. LED 2. Headlight and Taillight System 3. Meter Circuit Plate 4. Wire Harness 	<p>–</p> <p>BE-41</p> <p>BE-82</p> <p>–</p>
Turn signal indicator light does not light up.	<ol style="list-style-type: none"> 1. LED 2. Turn Signal and Hazard Warning System 3. Meter Circuit Plate 4. Wire Harness 	<p>–</p> <p>BE-53</p> <p>BE-82</p> <p>–</p>
Shift indicator light does not light up.	<ol style="list-style-type: none"> 1. LED 2. Park/Neutral Position Switch 3. Meter Circuit Plate 4. Wire Harness 	<p>–</p> <p>DI-993</p> <p>DI-1159</p> <p>BE-82</p> <p>–</p>
Only one shift indicator light does not light up.	<ol style="list-style-type: none"> 1. LED 2. Meter Circuit Plate 	<p>–</p> <p>BE-82</p>
MIL does not light up.	<ol style="list-style-type: none"> 1. LED 2. ECM 3. Meter Circuit Plate 4. Wire Harness 	<p>–</p> <p>DI-9</p> <p>DI-428</p> <p>BE-82</p> <p>–</p>

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OIL MAINT indicator does not light up.	1. LED 2. Resetting Procedure 3. Wire Harness	DI-428 BE-86 –
Tire pressure indicator does not light up.	1. LED 2. Skid Control ECU 3. Meter Circuit Plate 4. Wire Harness	DI-428 DI-1385 DI-1469 BE-82 –

MIRROR HEATER SYSTEM

Symptom	Suspected Area	See Page
Mirror heater system does not operate.	1. GAUGE Fuse 2. Mirror Heater Switch 3. Ignition Switch 4. MIR HTR Relay 5. Wire Harness	BE-29 BE-107 BE-37 BE-107 –

POWER WINDOW CONTROL SYSTEM

Symptom	Suspected Area	See Page
Power window does not operate. Power door lock does not operate.	1. ECU-IG Fuse 2. POWER Relay 3. Ignition Switch 4. Integration Relay	BE-29 BE-114 BE-37 BE-128
Power window does not operate. Power door lock is normal.	1. Power Window Master Switch 2. Wire Harness	BE-114 –
One-touch power window system does not operate.	Power Window Master Switch	BE-114
Only one window does not move.	1. Power Window Master Switch 2. Power Window Control Switch 3. Power Window Motor 4. Wire Harness	BE-114 BE-114 BE-114 –
Window lock system does not operate.	Power Window Master Switch	BE-114
Key-off power window does not operate.	1. ECU-IG Fuse 2. POWER Relay 3. Ignition Switch 4. Door Courtesy Switch 5. Integration Relay 6. Wire Harness	BE-29 BE-114 BE-37 BE-61 BE-128 –

POWER SLIDE BACK WINDOW SYSTEM

Symptom	Suspected Area	See Page
Power slide back window does not operate. Power window does not operate.	1. ECU-IG Fuse 2. POWER Relay 3. Ignition Switch 4. Integration Relay	BE-114 BE-114 BE-37 BE-128
Power slide back window does not operate. Power window is normal.	1. Power Slide Back Window Switch 2. Power Slide Back Window Motor 3. Wire Harness	BE-122 BE-122 –

POWER DOOR LOCK CONTROL SYSTEM

Symptom	Suspected Area	See Page
Entire door lock system does not operate.	1. ECU-IG Fuse 2. POWER Fuse 3. Integration Relay 4. Wire Harness	BE-29 BE-29 BE-128 –

Manual door lock/unlock switch does not operate.	1. Door Lock Control Switch 2. Door Unlock Detection Switch 3. Integration Relay 4. Wire Harness	BE-128 BE-128 BE-128 –
Door lock/unlock key does not operate.	1. Door Key Lock and Unlock Switch 2. Integration Relay 3. Wire Harness 4. Door Lock Link Disconnected	BE-128 BE-128 – –
Key confine prevention function does not operate.	1. Key Unlock Warning Switch 2. Door Courtesy Switch 3. Integration Relay 4. Wire Harness	BE-37 BE-61 BE-180 –
Only one door lock does not operate.	1. Door Lock Motor 2. Wire Harness	BE-180 –

TOYOTA VEHICLE INTRUSION PROTECTION (TVIP) SYSTEM

Symptom	Suspected Area	See Page
TOYOTA vehicle intrusion protection (TVIP) system operates abnormally.	TROUBLESHOOTING	DI-2297

WIRELESS DOOR LOCK CONTROL SYSTEM**HINT:**

Troubleshooting of the wireless door lock control system is based on the premise that the door lock control system is operating normally. Accordingly, before troubleshooting the wireless door lock control system, first make certain that the door lock control system is operating normally.

Symptom	Suspected Area	See Page
Entire wireless door lock control system does not operate.	1. Transmitter 2. TVIP ECU 3. Wire Harness	BE-180 DI-2297 –
Wireless door lock operates, but the buzzer does not sound.	1. TVIP Buzzer 2. TVIP ECU 3. Wire Harness	DI-2297 –

POWER SEAT CONTROL SYSTEM

Symptom	Suspected Area	See Page
Power seat does not operate.	1. POWER Fuse 2. Power Seat Switch 3. Wire Harness	BE-114 BE-184 –
Slide operation does not operate.	1. Power Seat Switch 2. Slide Motor 3. Wire Harness	BE-184 BE-184 –
Front tilt operation does not operate.	1. Power Seat Switch 2. Front Tilt Motor 3. Wire Harness	BE-184 BE-184 –
Rear lifter operation does not operate.	1. Power Seat Switch 2. Rear Lifter Motor 3. Wire Harness	BE-184 BE-184 –
Reclining operation does not operate.	1. Power Seat Switch 2. Reclining Motor 3. Wire Harness	BE-184 BE-184 –
Lumbar support operation does not operate.	1. Lumbar Support Switch 2. Lumbar Support Motor 3. Wire Harness	BE-184 BE-184 –

POWER MIRROR CONTROL SYSTEM

Symptom	Suspected Area	See Page
Mirror does not operate.	1. ACC Fuse 2. ECU-B Fuse (2UZ-FE) 3. ACC CUT Relay (2UZ-FE) 4. Ignition Switch 5. Mirror Switch 6. Mirror Motor 7. ECM (2UZ-FE) 8. Wire Harness	BE-114 BE-114 BE-192 BE-37 BE-192 BE-192 DI-428 –
Mirror operates abnormally.	1. Mirror Switch 2. Mirror Motor 3. Wire Harness	BE-192 BE-192 –

ELECTRO CHROMIC MIRROR SYSTEM

Symptom	Suspected Area	See Page
Electro chromic mirror does not operate.	1. GAUGE Fuse 2. Electro Chromic Mirror 3. Wire Harness	BE-24 BE-189 –

CLOCK SYSTEM (in A/C Control Panel)

Symptom	Suspected Area	See Page
Clock does not operate.	TROUBLESHOOTING NO. 1	BE-200
Clock loses or gains time.	TROUBLESHOOTING NO. 2	BE-200

NAVIGATION SYSTEM

Symptom	Suspected Area	See Page
Navigation system operates abnormally.	TROUBLESHOOTING	DI-2766

AUDIO SYSTEM

Symptom	Suspected Area	See Page
Audio system operates abnormally.	TROUBLESHOOTING	DI-2525
Rear seat audio system operates abnormally.	TROUBLESHOOTING	DI-2636

REAR SEAT ENTERTAINMENT SYSTEM

Symptom	Suspected Area	See Page
Rear seat entertainment system operates abnormally.	TROUBLESHOOTING	DI-2673

TRAILER TOWING

Symptom	Suspected Area	See Page
Trailer towing does not operate.	1. TOWING Fuse 2. TOWING TAIL Fuse 3. TOWING BRK Fuse 4. GAUGE Fuse 5. TOW TAIL Relay 6. SUB BATT Relay 7. Towing Converter 8. Wire Harness	BE-29 BE-29 BE-29 BE-29 BE-213 BE-213 BE-213 –