

2005 Toyota RAV4
2005 ELECTRICAL Body Electrical - Troubleshooting - RAV4

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Body Electrical - Troubleshooting - RAV4

PROBLEM SYMPTOMS TABLE

IGNITION SWITCH AND KEY UNLOCK WARNING SWITCH

Symptom	Suspected Area
Ignition switch is not set to each position.	Ignition switch
Key unlock warning system does not operate.	1. GAUGE fuse 2. Key unlock warning switch 3. Door courtesy switch 4. Wire harness

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Fig. 1: Trouble Shooting Table - Ignition Switch And Key Unlock Watching Switch
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

W/ DAYTIME RUNNING LIGHT SYSTEM HEADLIGHT AND TAILLIGHT SYSTEM

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Symptom	Suspected Area
Headlights do not light up. Taillights are normal.	1. HEAD fuse (H-LP LH, RH) 2. Headlight dimmer switch 3. Light control switch 4. Daytime running light relay 5. Passenger side J/B ECU 6. Headlight bulb 7. Wire harness
Headlights and taillights do not light up.	1. HEAD fuse (H-LP LH, RH) 2. Light control switch 3. Daytime running light relay 4. Headlight bulb 5. Wire harness
Only one headlight does not light up.	1. HEAD fuse (H-LP LH, RH) 2. Headlight bulb 3. Wire harness
Lo-beam does not operate on one side.	1. HEAD fuse (H-LP LH, RH) 2. Headlight bulb 3. Wire harness
Lo-beam does not operate on both sides.	1. HEAD fuse (H-LP LH, RH) 2. Headlight bulb 3. Wire harness
Hi-beam does not operate on one side.	1. HEAD fuse (H-LP LH, RH) 2. Headlight bulb 3. Wire harness
Hi-beam does not operate on both sides.	1. HEAD fuse (H-LP LH, RH) 2. Headlight bulb 3. Wire harness
Flash does not operate.	1. HEAD fuse (H-LP LH, RH) 2. Headlight bulb 3. Wire harness
Light-on warning system does not operate.	1. ECU-IG fuse 2. Door courtesy switch (Driver's) 3. Ignition switch 4. Combination meter 5. Wire harness
Headlights do not light up with light control switch in HEAD position.	1. Light control switch 2. Wire harness
Headlights do not turn off with light control switch in OFF position.	1. Light control switch 2. Wire harness
Taillights do not light up with light control switch in TAIL position.	1. Taillight control relay 2. TAIL & PANEL fuse 3. Light control switch 4. Wire harness
Taillights do not turn off with light control switch in OFF position.	1. Taillight control relay 2. TAIL & PANEL fuse 3. Light control switch 4. Wire harness
Headlights do not light up with engine running and light control switch in OFF position.	1. GAUGE fuse 2. Generator L terminal 3. Passenger side J/B ECU 4. Daytime running light relay 5. Wire harness

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Fig. 2: Trouble Shooting Table - Headlight And Taillight System (w/ Daytime Running Light System)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

W/O DAYTIME RUNNING LIGHT SYSTEM HEADLIGHT AND TAILLIGHT SYSTEM

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Symptom	Suspected Area
Headlights do not light up. Taillights are normal.	1. HEAD fuse (H-LP LH, RH) 2. Headlight control relay 3. Headlight dimmer switch 4. Light control switch 5. Passenger side J/B ECU 6. Headlight bulb 7. Wire harness
Headlights and taillights do not light up.	1. HEAD fuse (H-LP LH, RH) 2. Light control switch 3. Headlight bulb 4. Wire harness
Only one headlight does not light up.	1. HEAD fuse (H-LP LH, RH) 2. Headlight bulb 3. Wire harness
Lo-beam does not operate on one side.	1. HEAD fuse (H-LP LH, RH) 2. Headlight bulb 3. Wire harness
Lo-beam does not operate on both sides.	1. HEAD fuse (H-LP LH, RH) 2. Headlight bulb 3. Wire harness
Hi-beam does not operate on one side.	1. HEAD fuse (H-LP LH, RH) 2. Headlight bulb 3. Wire harness
Hi-beam does not operate on both sides.	1. HEAD fuse (H-LP LH, RH) 2. Headlight bulb 3. Wire harness
Flash does not operate.	1. HEAD fuse (H-LP LH, RH) 2. Headlight bulb 3. Wire harness
Light-on warning system does not operate.	1. ECU-IG fuse 2. Door courtesy switch (Driver's) 3. Ignition switch 4. Combination meter 5. Wire harness
Headlights do not light up with light control switch in HEAD position.	1. Light control switch 2. Wire harness
Headlights do not turn off with light control switch in OFF position.	1. Light control switch 2. Wire harness
Taillights do not light up with light control switch in TAIL position.	1. Taillight control relay 2. TAIL & PANEL fuse 3. Light control switch 4. Wire harness
Taillights do not turn off with light control switch in OFF position.	1. Taillight control relay 2. TAIL & PANEL fuse 3. Light control switch 4. Wire harness
Headlights do not light up with engine running and light control switch in OFF position.	1. GAUGE fuse 2. Generator L terminal 3. Passenger side J/B ECU 4. Wire harness

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Fig. 3: Trouble Shooting Table - Headlight And Taillight System (w/o Daytime Running Light System)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

FOG LIGHT SYSTEM

Symptom	Suspected Area
Fog lights do not light up with light control switch in HEAD position. Headlights are normal.	1. Bulb 2. FR FOG fuse 3. Front fog light relay 4. Front fog light switch 5. Wire harness
Fog lights do not light up with light control switch in HEAD position.	1. Headlight and taillight system 2. Wire harness
Only one fog light does not light up.	1. Bulb 2. Wire harness

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Fig. 4: Trouble Shooting Table - Fog Light System
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TURN SIGNAL AND HAZARD WARNING SYSTEM

Symptom	Suspected Area
Hazard warning lights and turn signal lights do not light up.	1. Hazard warning switch 2. Turn signal switch 3. Wire harness
Frequency of flash is abnormal.	1. Bulb 2. Turn signal flasher relay 3. Wire harness
Hazard warning light does not light up. Turn signal lights are normal.	1. HAZ fuse 2. Hazard warning switch 3. Wire harness
Hazard warning lights do not light up on one side.	1. Hazard warning switch 2. Wire harness
Turn signal lights do not light up.	1. Ignition switch 2. TURN fuse 3. Turn signal switch 4. Wire harness
Turn signal lights do not light up on one side.	1. Turn signal switch 2. Wire harness
Only one bulb does not light up.	1. Bulb 2. Wire harness

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Fig. 5: Trouble Shooting Table - Turn Signal And Hazard Warning System
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INTERIOR LIGHT SYSTEM

Symptom	Suspected Area
Interior light does not light up.	1. Bulb 2. Interior light 3. Passenger side J/B ECU 4. Wire harness
Personal light does not light up.	1. Bulb 2. Personal light 3. Passenger side J/B ECU 4. Wire harness
Vanity light does not light up.	1. Bulb 2. Vanity light 3. Wire harness
Luggage compartment light does not light up.	1. Bulb 2. Luggage compartment light 3. Passenger side J/B ECU 4. Wire harness

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Fig. 6: Trouble Shooting Table - Interior Light System
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BACK-UP LIGHT SYSTEM

Symptom	Suspected Area
Back-up lights do not light up.	1. GAUGE fuse 2. Back-up light switch 3. Bulb 4. Wire harness
Back-up lights remain ON.	1. Back-up light switch 2. Wire harness
Only one light does not light up.	1. Bulb 2. Wire harness

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Fig. 7: Trouble Shooting Table - Back - up Light System
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STOP LIGHT SYSTEM

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Symptom	Suspected Area
Stop lights do not light up.	1. STOP fuse 2. Stop light switch 3. Bulb 4. Wire harness
Stop lights remain always ON.	1. Stop light switch 2. Wire harness
Only one light does not light up.	1. Bulb 2. Wire harness

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Fig. 8: Trouble Shooting Table - Stop Light System
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WIPER AND WASHER SYSTEM

Symptom	Suspected Area
Wipers and washers do not operate.	1. WIP fuse 2. Ignition switch 3. Wiper and washer switch 4. Wire harness
Front wipers do not operate.	1. WIP fuse 2. Front wiper and washer switch 3. Front wiper motor 4. Wire harness
Front washers do not operate.	1. WIP fuse 2. Front wiper and washer switch 3. Front washer motor 4. Wire harness
Rear wiper does not operate.	1. RR WIP fuse 2. Rear wiper and washer switch 3. Rear wiper motor 4. Wire harness
Rear washer does not operate.	1. RR WIP fuse 2. Rear wiper and washer switch 3. Rear washer motor 4. Wire harness

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Fig. 9: Trouble Shooting Table - Wiper And Washer System
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METER, GAUGES AND ILLUMINATION: COMBINATION METER

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Symptom	Suspected Area
Tachometer, fuel gauge and engine coolant temperature gauge do not operate.	1. ECU IG fuse 2. GAUGE fuse 3. Passenger side J/B ECU 4. Meter circuit 5. Wire harness
Speedometer does not operate.	1. Vehicle speed sensor 2. Meter circuit 3. Wire harness
Tachometer does not operate.	1. ECM 2. Meter circuit 3. Wire harness
Fuel gauge does not operate or operates abnormally.	1. Fuel sender gauge (Main and Sub) 2. Meter circuit 3. Wire harness 4. Inclination sensor 5. Combination meter horizontally set
Engine coolant temperature gauge does not operate or operates abnormally.	1. ECM 2. Meter circuit 3. Wire harness
All illumination lights do not light up.	1. Light control switch 2. Light control rheostat 3. Meter circuit 4. Wire harness
Only one illumination light does not light up.	1. LED 2. Meter circuit

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Fig. 10: Trouble Shooting Table - Combination Meter (Meter, Gauges And Illumination)
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WARNING LIGHTS: COMBINATION METER

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Symptom	Suspected Area
Only discharge and door open warning lights light up. Other warning lights do not light up.	1. LED 2. IG2 fuse 3. ECU IG fuse 4. Ignition switch 5. Meter circuit 6. ABS ECU (w/ ABS) 7. Generator 8. Wire harness
Brake warning light does not light up.	1. LED 2. Brake fluid level warning switch 3. Parking brake switch 4. Meter circuit 5. Wire harness
Seat belt warning light does not light up.	1. LED 2. Seat belt buckle switch 3. Meter circuit 4. Wire harness
Low oil pressure warning light does not light up.	1. LED 2. Oil pressure warning switch 3. Meter circuit 4. Wire harness
Door open warning light does not light up.	1. LED 2. DOME fuse 3. Door courtesy switch 4. Meter circuit 5. Wire harness

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Fig. 11: Trouble Shooting Table - Combination Meter Warning Lights
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INDICATOR LIGHTS: COMBINATION METER

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Symptom	Suspected Area
SRS indicator light does not light up.	1. LED 2. Airbag sensor assembly 3. Meter circuit 4. Wire harness
Front fog indicator light does not light up.	1. LED 2. Front fog light 3. Meter circuit 4. Wire harness
ABS indicator light does not light up.	1. LED 2. ABS ECU 3. Meter circuit 4. Wire harness
MIL does not light up.	1. LED 2. ECM 3. Wire harness
Turn signal indicator light does not light up.	1. LED 2. Turn signal and hazard warning system 3. Meter circuit 4. Wire harness
High beam indicator light does not light up.	1. LED 2. Headlight and taillight system 3. Meter circuit 4. Wire harness

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Fig. 12: Trouble Shooting Table - Combination Meter Indicator Lights
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DEFOGGER SYSTEM

Symptom	Suspected Area
All defogger systems do not operate.	1. HTR fuse 2. DEF fuse 3. Defogger relay 4. Defogger switch 5. Wire harness
Only rear window defogger system does not operate.	1. Defogger wire 2. Wire harness

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Fig. 13: Trouble Shooting Table - Defogger System
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POWER WINDOW CONTROL SYSTEM

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Symptom	Suspected Area
Power window does not operate.	1. Ignition switch 2. Power window control switch 3. Wire harness
One-touch power window system does not operate.	Power window control switch
Only one window glass does not move.	1. Power window control switch 2. Power window motor 3. Wire harness
Window lock system does not operate.	Power window control switch
Illumination light does not light up.	Power window control switch

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Fig. 14: Trouble Shooting Table - Power Window Control System
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POWER DOOR LOCK CONTROL SYSTEM

Symptom	Suspected Area
The entire door lock control system does not operate.	1. Passenger side J/B ECU 2. DOOR fuse 3. GAUGE fuse 4. ACC fuse 5. Wire harness 6. Other parts
Malfunction in manual door lock/unlock switch operation.	1. Door lock control switch 2. Wire harness 3. Other parts
Malfunction in manual door lock/unlock switch operation and key operation.	1. Wire harness 2. Other parts
Malfunction in door lock/unlock key operation.	1. Door unlock detection switch 2. Wire harness 3. Other parts
Malfunction in 2-operation unlock function of driver side door key lock and unlock switch.	1. Door unlock detection switch 2. Wire harness 3. Other parts
Key confine prevention function does not operate.	1. Door unlock detection switch 2. Door courtesy switch 3. Door lock control switch 4. Wire harness 5. Other parts
Only one door lock does not operate.	1. Door lock motor 2. Wire harness

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Fig. 15: Trouble Shooting Table - Power Door Lock Control System
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SLIDING ROOF SYSTEM

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Symptom	Suspected Area
Sliding roof system does not operate. Door Lock is normal.	1. POWER fuse 2. Sliding roof control switch and relay 3. Sliding roof motor and limit switch 4. Wire harness
Sliding roof system operates abnormally.	1. Sliding roof control switch and relay 2. Sliding roof motor and limit switch 3. Wire harness
Sliding roof system stops operation halfway and foreign materials are not trapped in motor assembly.	1. Sliding roof control switch and relay 2. Sliding roof motor and limit switch 3. Wire harness

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Fig. 16: Trouble Shooting Table - Sliding Roof System

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POWER MIRROR CONTROL SYSTEM

Symptom	Suspected Area
Mirror does not operate.	1. ACC fuse 2. Mirror switch 3. Mirror motor
Mirror operates abnormally.	1. Mirror switch 2. Mirror motor 3. Wire harness

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Fig. 17: Trouble Shooting Table - Power Mirror Control System

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ELECTRO CHROMIC MIRROR SYSTEM

Symptom	Suspected Area
Electro chromic inner mirror does not operate.	1. ECU IG fuse 2. Electro chromic inner mirror 3. Wire harness

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Fig. 18: Trouble Shooting Table - Electro Chromic Mirror System

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SEAT HEATER SYSTEM

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Symptom	Suspected Area
Driver and passenger's seat heaters do not operate.	1. S-HTR fuse 2. Seat heater switch (LH, RH) 3. Seat heater 4. Wire harness
Driver's seat heater does not operate.	1. Seat heater switch (LH, RH) 2. Wire harness
Passenger's seat heater does not operate.	1. Seat heater switch (LH, RH) 2. Wire harness
Seat heater temperature is too hot.	Seat heater

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Fig. 19: Trouble Shooting Table - Seat Heater System
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CLOCK SYSTEM (IN HEATER CONTROL PANEL)

PROBLEM SYMPTOMS CHART

Symptom	Suspected Area	See
Clock does not operate.	TROUBLESHOOTING NO. 1	<u>TROUBLESHOOTING</u>
Clock loses or gains time.	TROUBLESHOOTING NO. 2	<u>TROUBLESHOOTING</u>

GARAGE DOOR OPENER SYSTEM

Symptom	Suspected Area
The registered transmitter code does not operate the equipment.	1. Garage door opener switch 2. Wire harness 3. *
LED does not turn on. (Only one switch is pressed.)	Garage door opener switch

HINT:

*: If the vehicle garage door opener seems to be normal, check the equipment-side opener of the transmitter code that was registered.

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Fig. 20: Trouble Shooting Table - Garage Door Opener System
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

HINT:

*: If the vehicle garage door opener seems to be normal, check the equipment-side opener of the transmitter code that was registered.

ENGINE IMMOBILISER SYSTEM

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PROBLEM SYMPTOMS CHART ENGINE IMMOBILISER SYSTEM

Symptom	Suspected Area	See
Engine immobiliser system does not operate.	See DIAGNOSIS SYSTEM	<u>HOW TO PROCEED WITH TROUBLESHOOTING</u>

HORN SYSTEM

Symptom	Suspected Area
Horn system operates ceaselessly.	1. HORN fuse 2. Horn relay 3. Horn switch 4. Horn 5. Wire harness
Horns blow all the time.	1. Horn relay 2. Horn switch 3. Wire harness
Only one horn does not operate.	1. Horn 2. Wire harness
Horns operate abnormally.	1. Horn relay 2. Horn 3. Wire harness

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Fig. 21: Trouble Shooting Table - Horn System
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