

Toyota 4Runner N210 fuse and relay

Toyota 4Runner N210 was produced in 2002, 2003, 2004, 2005, 2006, 2007, 2008 and 2009. In this material, we will show the locations of the electronic control units, a description of the fuses and relays of the Toyota 4Runner N210 with box diagrams and photo examples of their execution. Highlight the cigarette lighter fuse.

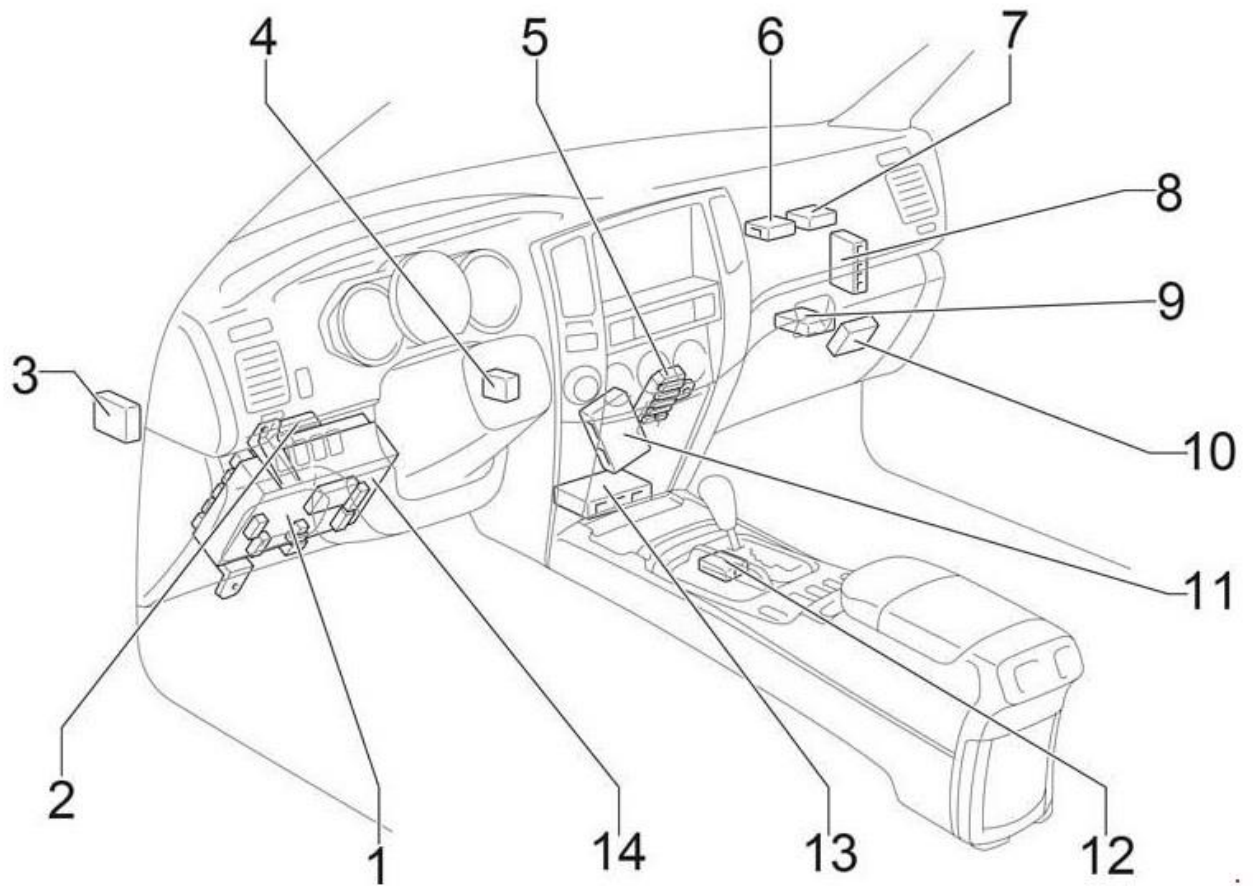


The arrangement of the blocks and the purpose of the elements in them may differ from the one presented. Check the information with your diagrams on the box cover.

Passenger compartment

Location

Layout

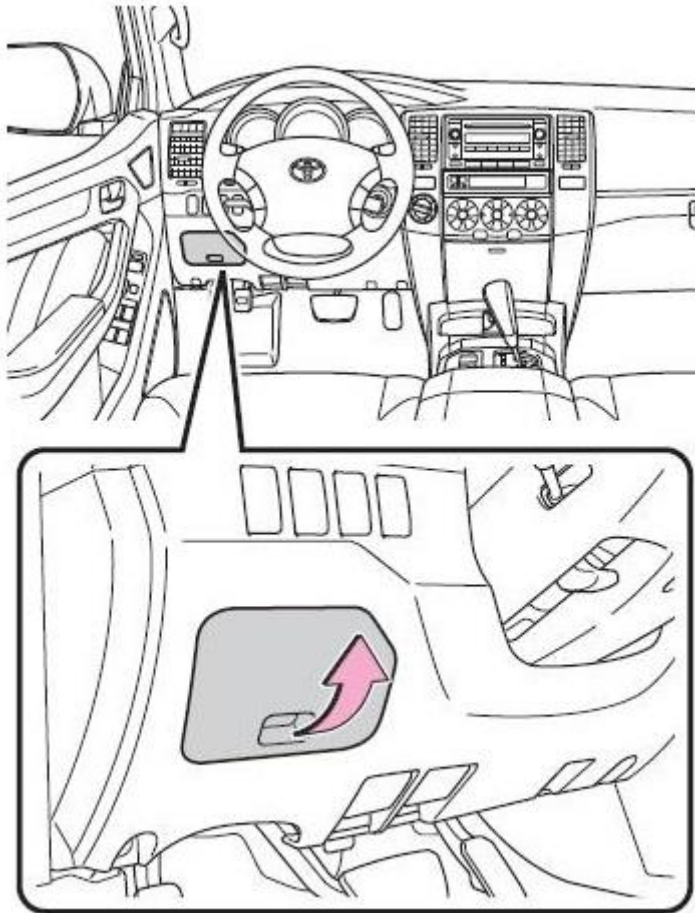


Assignment

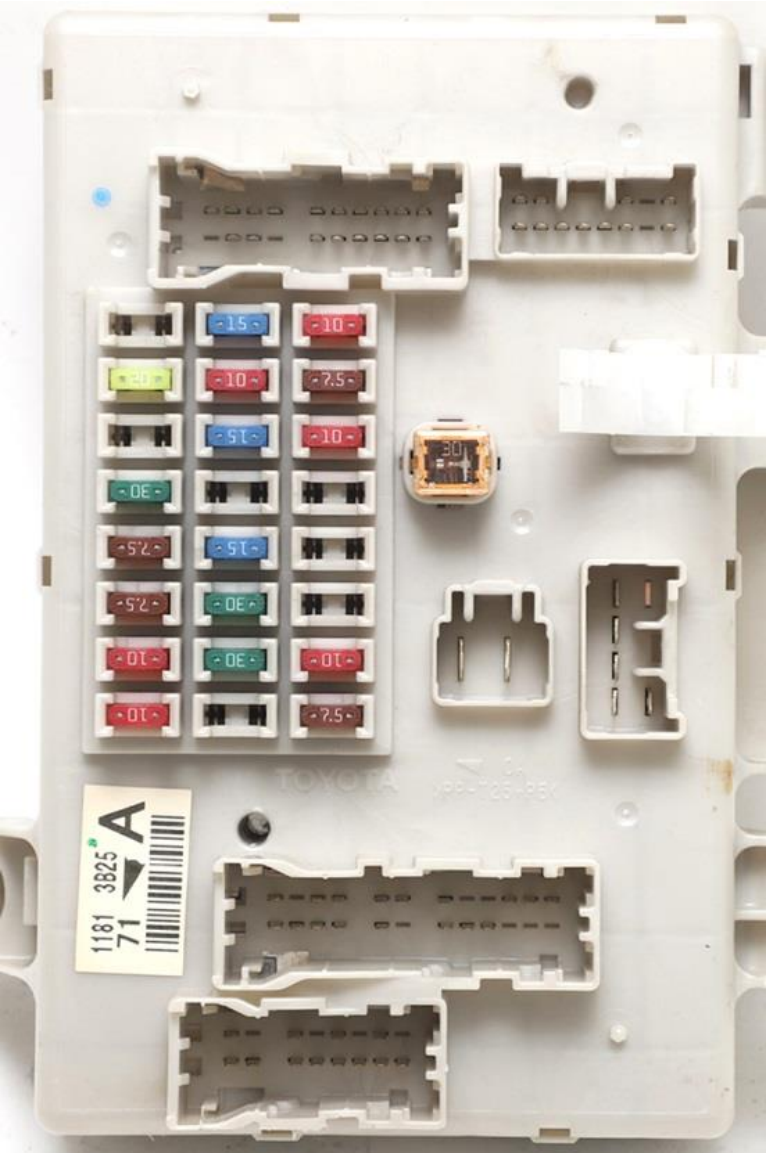
1. Fuse box
2. Turn Signal Relay / Daytime Running Light Relay
3. Suspension ECU
4. Transponder Key Amplifier
5. Center J / B
6. Anti-theft ECU
7. Computer with transponder key
8. Engine control module
9. ECU 4WD Control
10. Tire pressure monitoring ECU
11. Air conditioner control unit
12. ECU for gearshift lock
13. Airbag sensor assembly
14. Body ECU

Fuse box

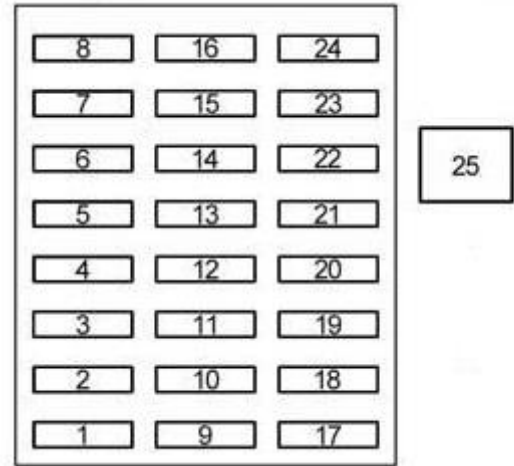
It is located at the bottom of the dashboard behind a protective cover.



Photo



Diagram



Circuits protected

1	10A IGN – Multiport fuel injection system / sequential multiport fuel injection system, anti-lock braking system, traction control system (2WD models), active
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	traction control system (4WD models), vehicle stability control system, meter and sensor, front passenger classification system, stop light
2	10A SRS – SRS airbag system
3	7,5A GAUGE – Sensors and counters
4	7,5A STA NO.2 – Starting system, multiport fuel injection system / sequential multiport fuel injection system
5	30A FR WIP-WSH – Wipers and windshield washer
6	–
7	20A 4WD – 4WD control system
8	–
9	–
10	30A D P / SEAT – Power driver's seat
11	30A P P / SEAT – Electric Front Passenger Seat
12	15A PWR OUTLET – Sockets
13	–
14	15A RR WSH – Rear window washer, multiplex communication system
15	10A ECU-IG – Shift lock control system, power windows, anti-lock braking system, traction control system (2WD models), active traction control system (4WD models), vehicle stability control system, electric sunroof, multiplex communication system, system anti-theft protection, rear height air suspension control, tire pressure warning system, driving position memory system
16	15A IG1 – Antilock Braking System, Traction Control System (2WD Models), Active Traction Control System (4WD Models), Vehicle Stability Control System, Air Conditioning System, Charging System, Rear Window Defogger, Reversing Lights, Turn Signals, Emergency Flashers, heated seats, AC inverter, dashboard lighting control, auto anti-glare interior rearview mirror, belt tension reducer, SRS airbag system
17	7,5A STA
18	10A SECU / HORN – Anti-theft system

19	–
20	–
21	–
22	10A TAIL – Tail lights, license plate lights, parking lights, dashboard lighting control, multiport fuel injection system / sequential multiport fuel injection system, dashboard lights, meter and gauge, glove box lights
23	7.5A ACC – Outlets, outside mirrors, audio system, navigation system, shift lock control system, dashboard lights, rear seat entertainment system
24	10A CIG – Cigarette lighter
25	30A POWER – Power windows, power sunroof

The fuse number 24, 10A, is responsible for the cigarette lighter

Some relays can be mounted on the back of the units.

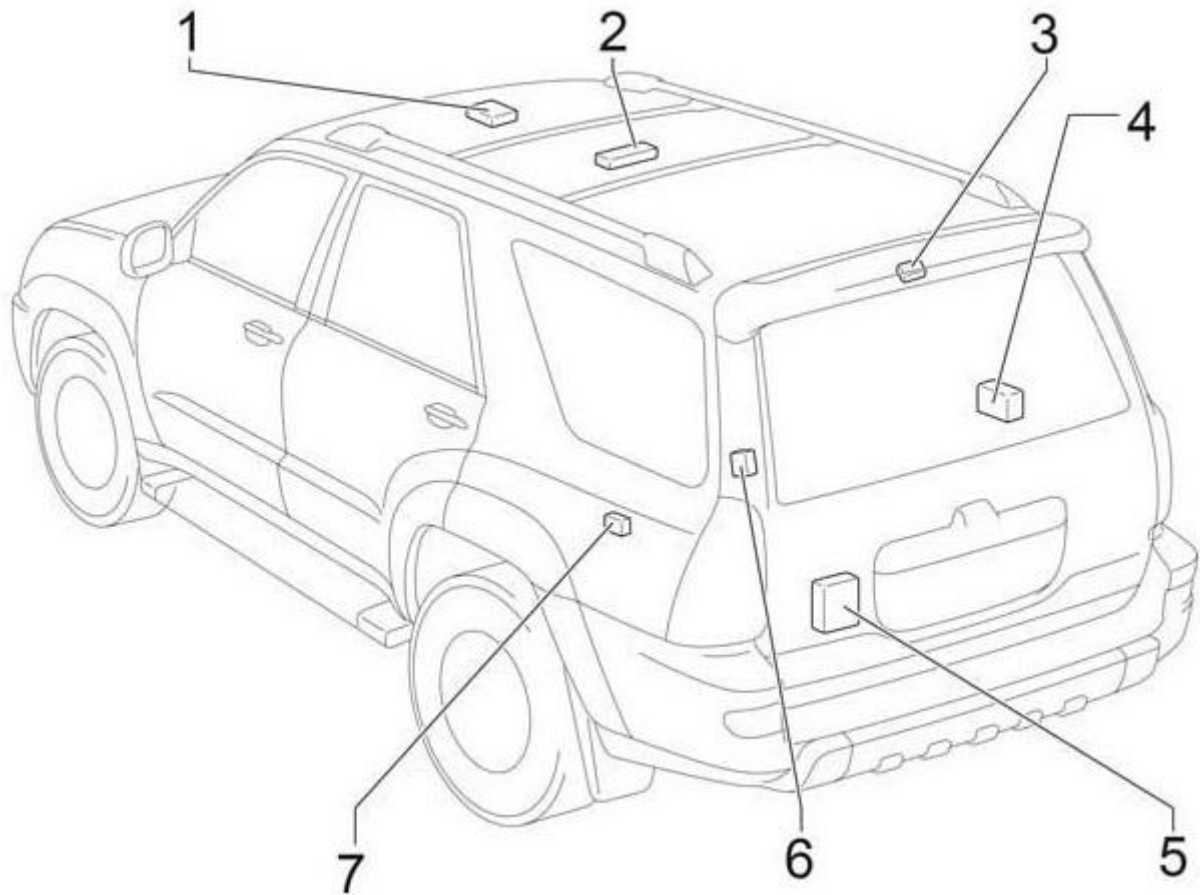


Functions

R1	Horn
R2	Tail lights
R3	Power relay
R4	Accessory socket (DC SKT)

Additional elements

Diagram



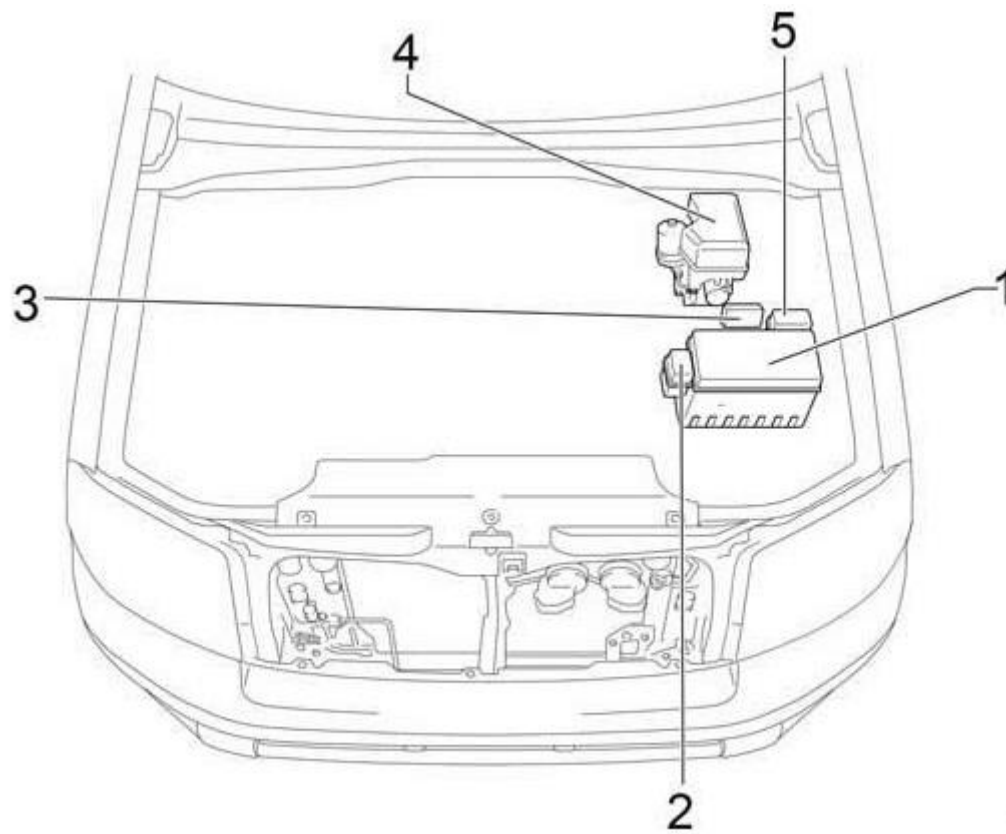
Designation

1. Moon Roof Control ECU
2. Rear Seat Audio Controller
3. Tire Pressure Monitor Receiver
4. Stereo Component Amplifier
5. Back Door ECU
6. Door Control Receiver
7. Towing Converter Relay

Engine compartment

Location

Layout



Appointment

1. Fuse and relay box
2. Relay Box No.1
3. Air Injection Control Driver
4. Skid Control ECU with Actuator
5. Relay Box No.2

Fuse and relay box

Located on the left side of the engine compartment next to the battery.

82662-3D100

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NOTICE
USE THE DESIGNATED FUSES ONLY
UTILIZING EQUIPMENT LESS
FUSELESS DEVICES

SPARE
ALT
140A
SPARE

HEATER 50A
AIR SUS 50A
AM1 50A
TOWING BRK 30A
J/B 50A
BATT CHG 30A
TOWING 40A
10A STOP
15A ACTIVE INV
15A FR 100
7.5A ORG

ACC CUT
FR FOG
STA
IG

7.5A HEATER NO.2
10A AIR SUS NO.2
25A SEAT HEATER
30A DEF FOG
10A MIR HEATER

MG CLT
DEF FOG
AC115V INV

ABS MTR
TRC MTR
ABS SOL

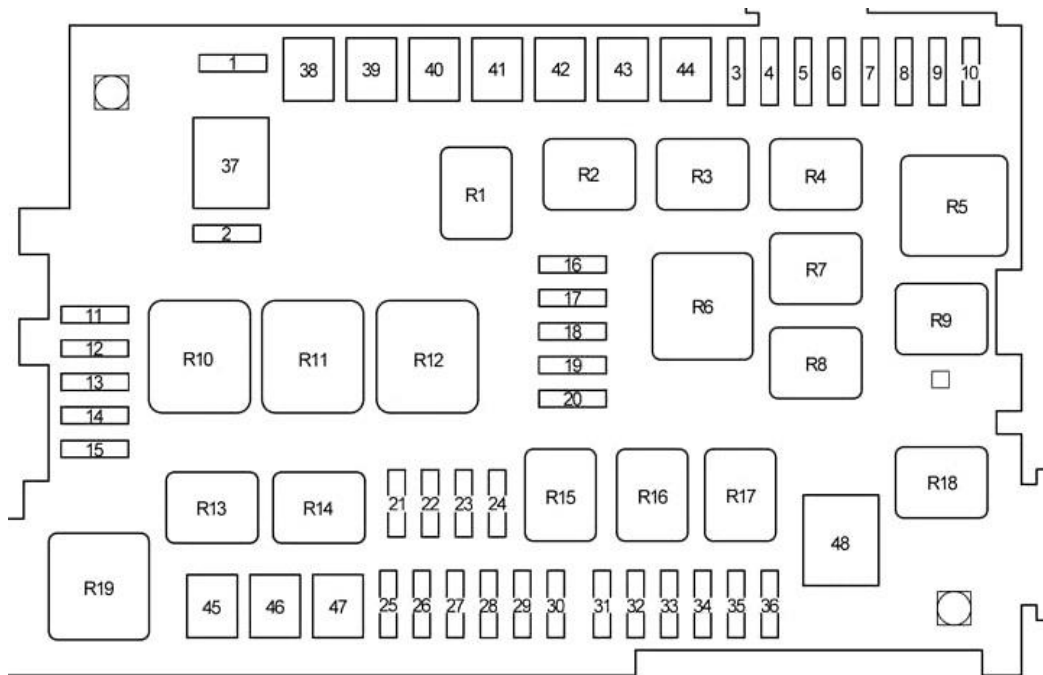
STOP LP CTRL
C/OPN

ABS MTR 40A
AM2 30A
ABS SOL 50A

DOME
EFI
A/F HEATER
FUEL PUMP

10A DOME
20A RADIO NO.1
10A ECU-B
10A HORN
15A A/F HEATER
15A TRIP-HAZ
10A ETC
20A EFI
20A DR-LOK
30A TOWING
20A RADIO NO.2

Diagram



Decoding

1	10A Spare fuse
2	15A Spare fuse
3	–
4	–
5	–
6	10A STOP – Stop / Tail Lights, Stop Light High, Shift Lock Control System, Antilock Braking System, Traction Control System (2WD Models), Active Traction Control System (4WD Models), Vehicle Stability Control, Air Suspension rear height adjustment, multiport fuel injection system / sequential multiport fuel injection system, trailer brake controller, trailer lights (rear lights)
7	15A AC115V INV – AC Inverter
8	15A FR FOG – Front fog lights
9	–
10	7,5A OBD – On-board diagnostic system
11	10A HEAD (LO RH) – Right headlight (low beam)
12	10A HEAD (LO LH) – Left headlight (low beam)

13	10A HEAD (HI RH) – Right headlight (high beam)
14	10A HEAD (HI LH) – Left headlight (high beam)
15	10A EFI NO.2 – Multiport fuel injection system / sequential multiport fuel injection system
16	7,5A HEATER NO.2 – Conditioner
17	10A AIRSUS NO.2 – Air suspension with rear height adjustment
18	25A SEAT HEATER – Heated seats
19	30A DEFOG – Heated rear window, multiport fuel injection system / sequential multiport fuel injection system
20	10A MIR HEATER – Heated exterior mirrors
21	10A DOME – Interior Lights, Personal Lights, Wireless Remote Control System, Door Lights, Gauge & Counter, Wash Basin Lights, Instrument Lights, Footrest Lights, Multiplex Communication System, Rear Seat Audio
22	20A RADIO NO.1 – Audio system, navigation system, rear seat entertainment system
23	10A ECU-B – Anti-lock braking system, traction control system (2WD models), active traction control system (4WD models), vehicle stability control system, air conditioning system, multiplex communication system, anti-theft system, driving position memory system, system front seat passenger classification, navigation system
24	–
25	–
26	7,5A ALT – S – Charging system
27	–
28	10A HORN – Signal
29	15A A / F HEATER – Sensor A / F
30	15A TRN – HAZ – Direction indicators, emergency flashers

31	10A ETCS – Multiport fuel injection system / sequential multiport fuel injection system
32	20A EFI – Multiport fuel injection system / sequential multiport fuel injection system
33	–
34	20A DR / LCK – Electric door locking system
35	30A TOWING – Towing converter
36	20A RADIO NO.2 – Audio system
37	140A ALT – “A / PUMP”, “AIRSUS”, “AM1”, “TOWING BRK”, “J / B”, “BATT CHG”, “TOWING”, “TAIL”, “STOP”, “AC 115V INV” , “FR” Fuses “FOG”, “OBD”, “HEATED”, “WORLD HEATER”
38	50A A / PUMP – 2005-2009: Multiport fuel injection system / sequential multiport fuel injection system.
	50A HEATER – 2002-2003: Air conditioning system.
39	50A AIRSUS – Air suspension with rear height adjustment
40	50A AM1 – All fuse components “ACC”, “CIG”, “IG1”, “ECU-IG”, “FR WIP-WSH”, “RR WIP”, “RR-WSH”, “4WD” and “STA”
41	30A TOWING BRK – Trailer brake controller
42	50A J / B – All fuse components “PWR OUTLET”, “D P / SEAT”, “P P / SEAT”, “POWER”, “TAIL” and “SECU / HORN”
43	30A BATT CHG – Additional trailer battery
44	40A TOWING – Trailer lights (rear lights)
45	40A ABS MTR – Anti-lock braking system, traction control system (2WD models), active traction control system (4WD models), vehicle stability control system
46	30A AM2 – Starter system, fuses “IGN”, “GAUGE”, “STA NO.2” and “SRS”
47	50A ABS SOL – 2002-2004: Anti-lock braking system, traction control system (2WD models), active traction control system (4WD models), vehicle stability control system.

	30A ABS SOL – 2005-2009: Anti-lock braking system, traction control system (2WD models), active traction control system (4WD models), vehicle stability control system.
48	60A HEATER – 2004-2009: Air conditioning system.
Relay	
R1	–
R2	Accessory (ACC CUT)
R3	Fog lights
R4	Starter (STA)
R5	Ignition (IG)
R6	Heater
R7	A / C Compressor Clutch (MG CLT)
R8	AC inverter (AC115V INV)
R9	Heated rear window (DEFOG)
R10	–
R11	–
R12	–
R13	Stop lights (STOP LP CTRL)
R14	Open circuit relay (C / OPN)
R15	Interior lighting, garage door opener (DOOM)
R16	EFI
R17	Air Fuel Ratio Sensor (A / F HEATER)
R18	Fuel pump
R19	Headlights (HEAD)

Relay box No. 1

Air suspension relay (AIR SUS).

Relay box No. 2

R1	Trailer sub battery (BATT CHG)
R2	Trailer lights (TOWING TAIL)