

Toyota RAV4 (XA30; 2006-2012) fuses and relays

*In this article, we consider the third-generation Toyota RAV4 (XA30), produced from 2005 to 2012. Here you will find fuse box diagrams of **Toyota RAV4 2006, 2007, 2008, 2009, 2010, 2011 and 2012**, get information about the location of the fuse panels inside the car, and learn about the assignment of each fuse (fuse layout) and relay.*

See other Toyota RAV4:

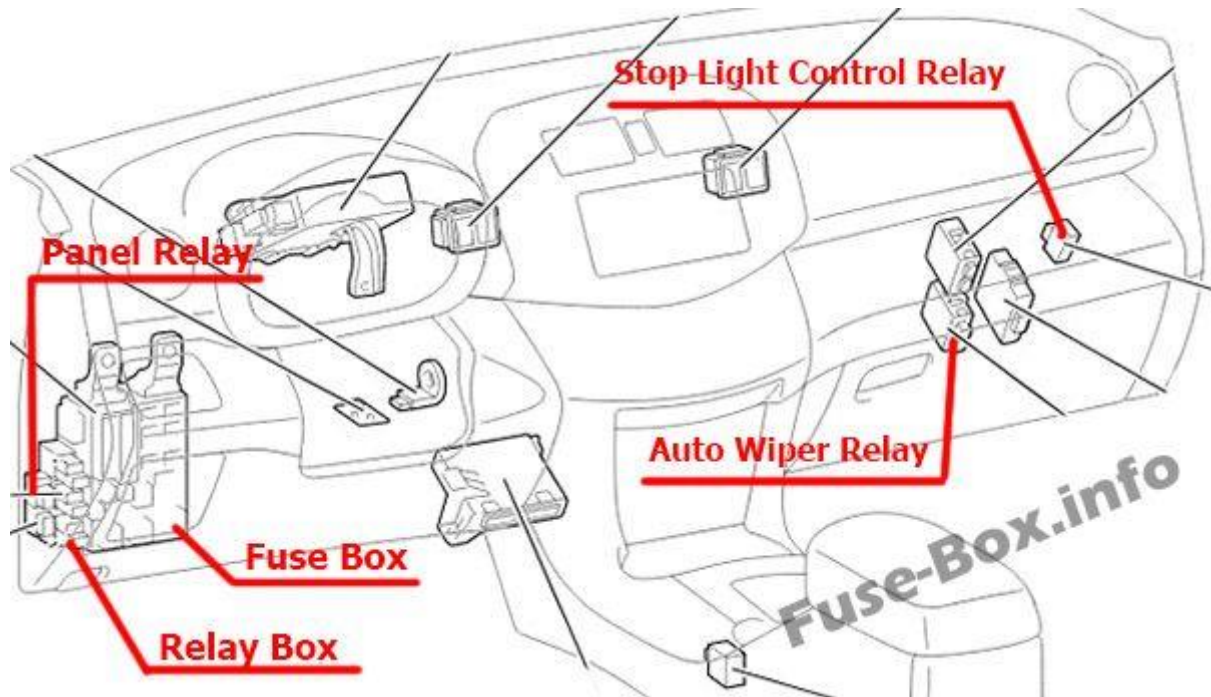
Fuse Layout Toyota RAV4 2006-2012



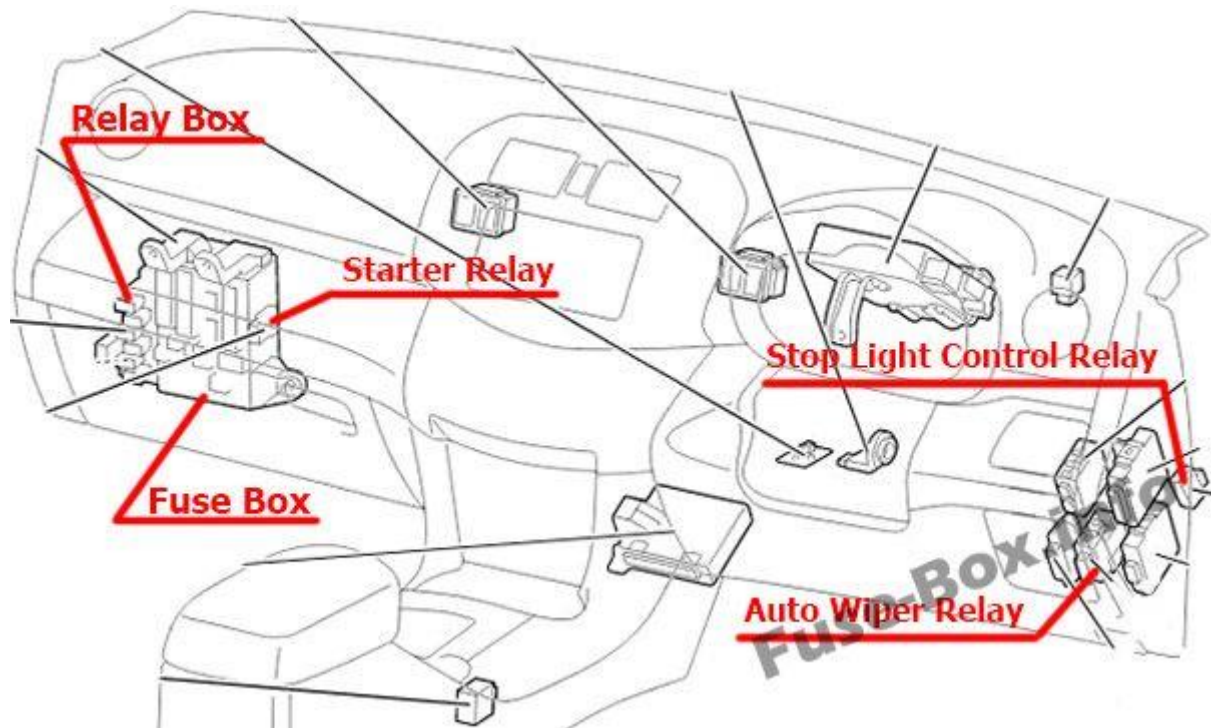
Cigar lighter (power outlet) fuses in the Toyota RAV4 are the fuses #23 "CIG" (Cigarette lighter), #24 "ACC" (Power outlets), #27 "PWR OUTLET" (Power outlets), #12 "ACC-B" in the Instrument panel fuse box, and fuse #18 "AC INV" (Power Outlet 115V) in the Engine Compartment Fuse Box №1.

Passenger Compartment Overview

Left-hand drive vehicles



Right-hand drive vehicles



Passenger Compartment Fuse Box

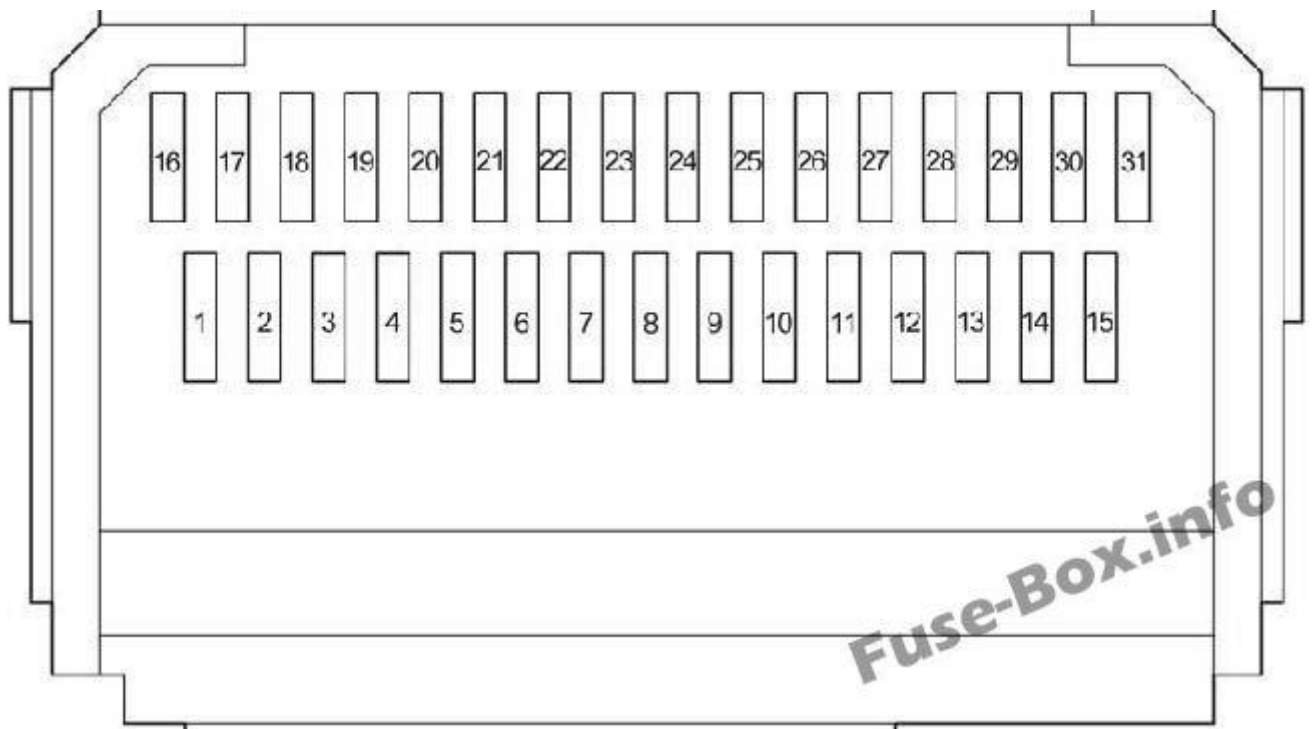
Fuse box location

The fuse box is located under the instrument panel (on the left side), behind the cover.



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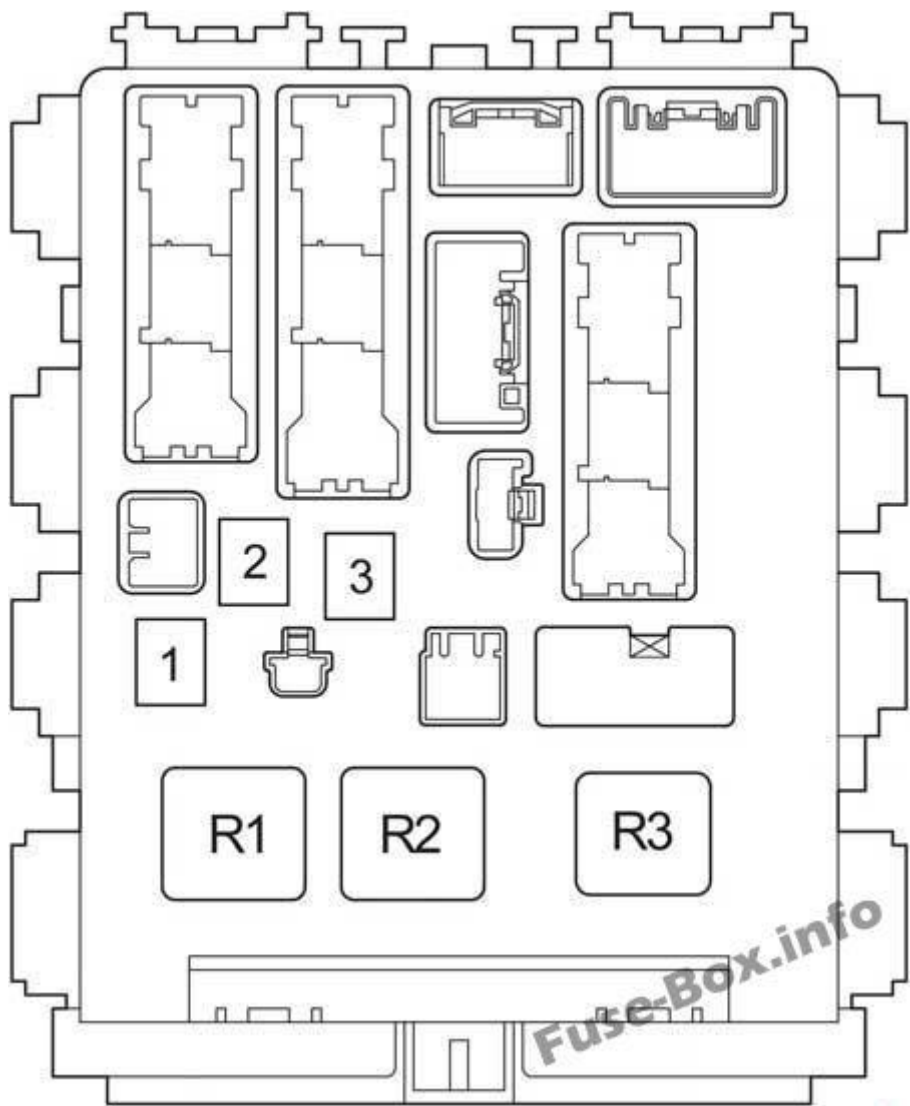
Fuse box diagram



Assignment of the fuses in the Passenger Compartment

No	Name	Amp	Circuit
1	-	-	Not used
2	S-HTR	15	Seat heaters
3	WIP	25	Windshield wipers
4	RR WIP	15	Rear window wiper
5	WSH	15	Windshield washer, rear window washer
6	ECU-IG1	10	Electric cooling fans, anti-lock brake system, traction control system, vehicle stability control system, downhill assist control system, hill-start assist control system, Active Torque Control 4WD system, automatic transmission shift lock system, air conditioning system, main body ECU, electric moon roof, windshield wiper de-icer, stop/tail lights, electric power steering system, clock, auto anti-glare inside rear view mirror
7	ECU-IG2	10	Air conditioning system, rear window defogger
8	OBD	7.5	On-board diagnosis system
9	STOP	10	Stop/tail lights, high mounted stoplight, automatic transmission shift lock system, multiport fuel injection system/sequential multiport fuel injection system, anti-lock brake system, traction control system, vehicle stability control system, downhill assist control system, hill-start assist control system
10	-	-	Not used
11	DOOR	25	Main body ECU, power door lock system
12	ACC-B	25	"ACC", "CIG" fuses
13	4WD	7.5	Active Torque Control 4WD system
14	FR FOG	15	Front fog lights
15	AM1	7.5	Starting system

No	Name	Amp	Circuit
16	TAIL	10	Tail lights, parking lights, license plate light, front fog lights, rear fog lights
17	PANEL	7.5	Clock, instrument panel lights, audio system
18	GAUGE1	10	Buck-up lights, charging system
19	D FR DOOR	20	Power windows (front doors)
20	RL DOOR	20	Power windows
21	RR DOOR	20	Power windows
22	S/ROOF	25	Electric moon roof
23	CIG	15	Cigarette lighter
24	ACC	7.5	Audio system, power outlets, power rear view mirror control, automatic transmission shift lock system, main body ECU, clock
25	-	-	Not used
26	MIR HTR	10	Outside rear view heaters
27	PWR OUTLET	15	Power outlets
28	-	-	Not used
29	RR FOG	10	Rear fog light
30	IGN	7.5	SRS airbag system, multiport fuel injection system/sequential multiport fuel injection system, stop/tail lights, starting system
31	GAUGE2	7.5	Meters and gauges

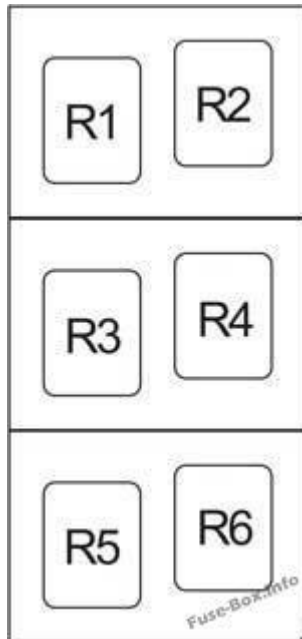


No	Name	Amp	Circuit
1	POWER	30	Power windows
2	DEF	30	Rear window defogger, "MIR HTR" fuse
3	P/SEAT	30	Power seat
Relay			
R1			Ignition (IG1)
R2			Heater (Manual A/C) Short Pin (Automatic A/C)

No	Name	Amp	Circuit
R3			LHD: Turn Signal Flasher

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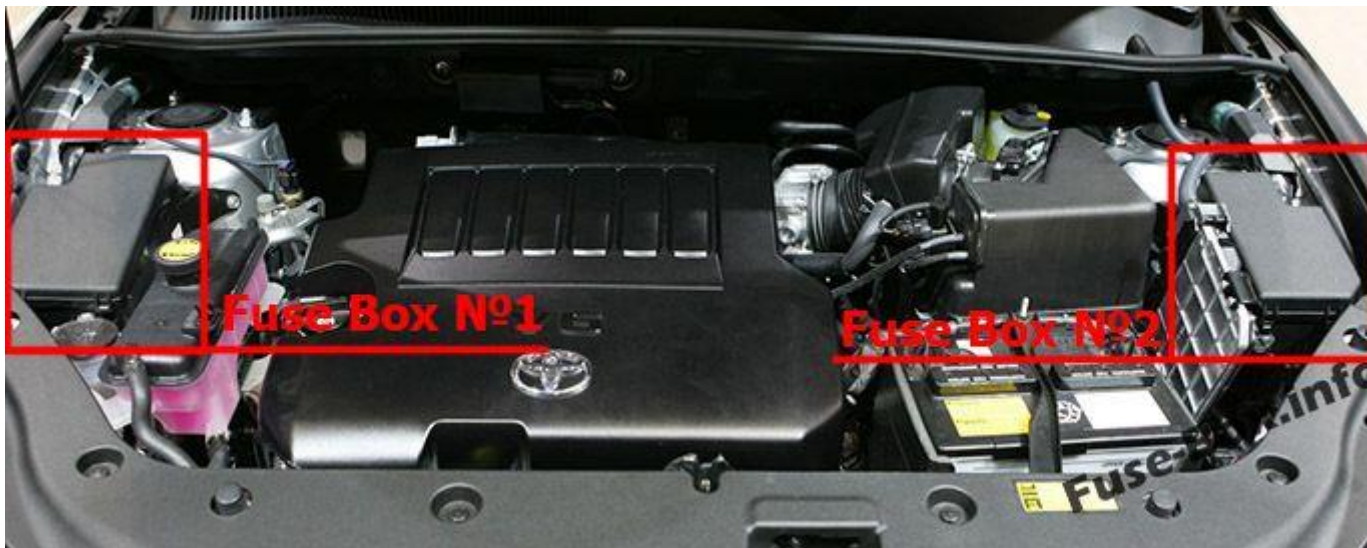
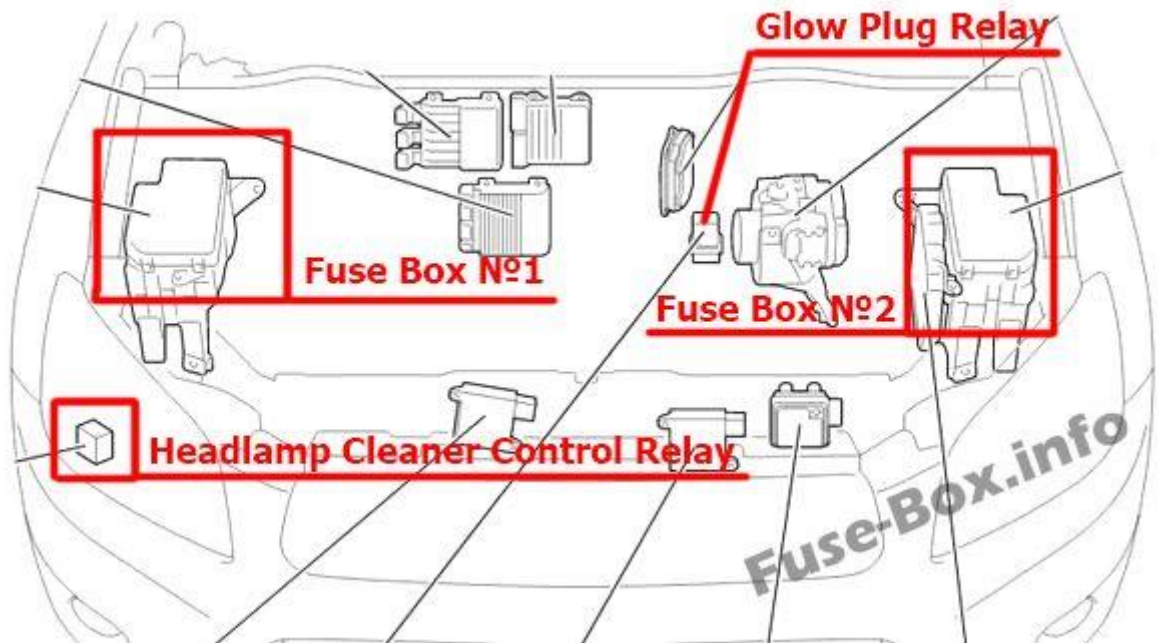
Relay Box



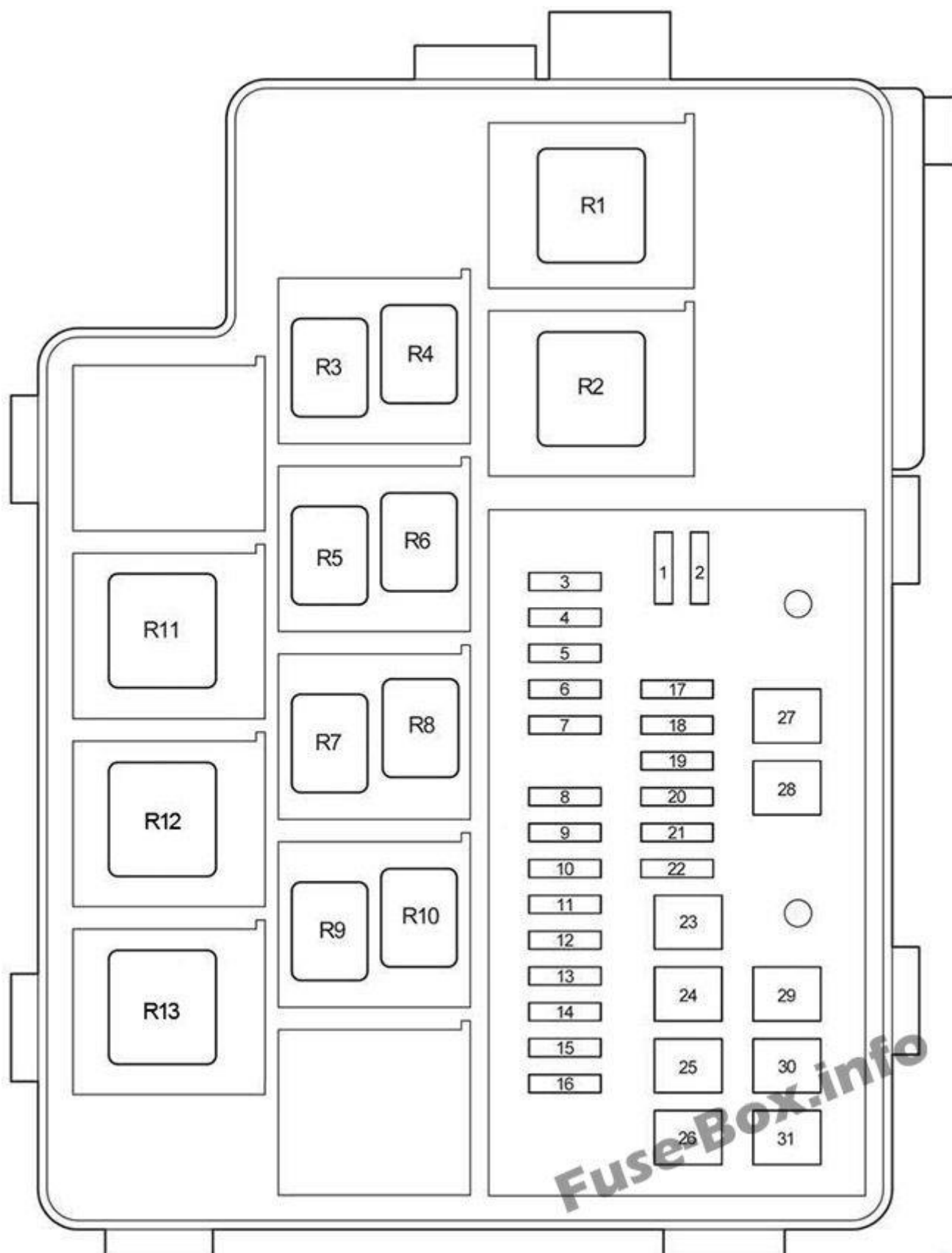
No	Relay
R1	Starter (ST CUT)
R2	LHD: Starter (ST) (Gasoline, Before Dec. 2008: Diesel with Entry & Start System) LHD: Short Pin (Before Dec. 2008: Diesel without Entry & Start System)
R3	Front fog light (FR FOG)
R4	Rear fog light (RR FOG) Power Outlet (115V)
R5	Accessory (ACC)
R6	Power outlet (PWR OUTLET)

Engine Compartment Fuse Boxes

Fuse box location



Fuse Box №1 Diagram



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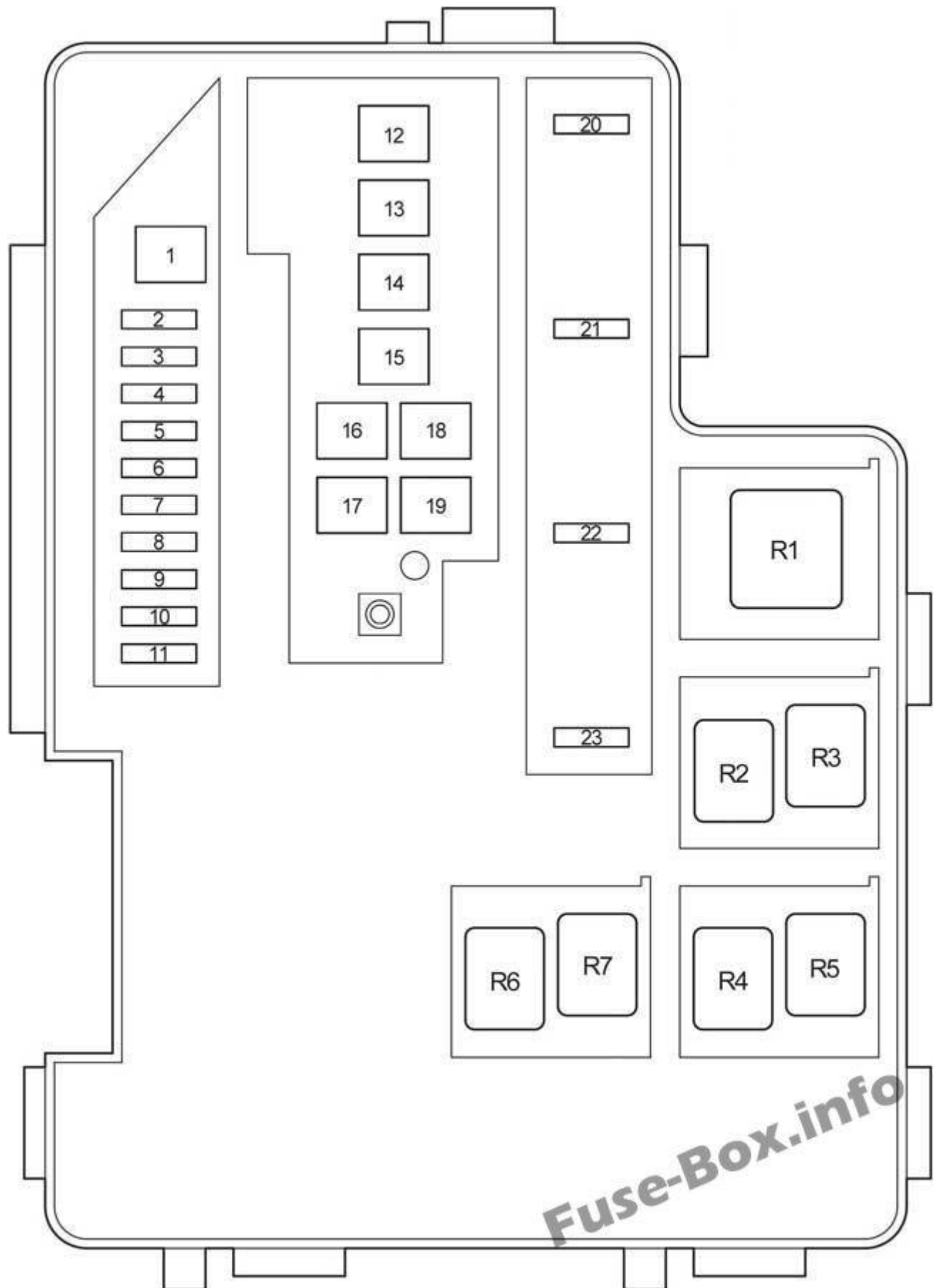
Assignment of the fuses and relay in the Engine Compartment Fuse Box №1

No	Name	Amp	Circuit
1	-	-	Not used
2	-	-	Not used
3	-	-	Not used
4	ECU-B2	7.5	Air conditioning system, power windows
5	ALT-S	7.5	Charging system
5	RSE	7.5	Audio System (JBL)
6	STR LOCK	20	No circuit
7	-	-	Not used
8	DCC	-	-
9	RAD No.1	20	Audio system
10	ECU-B	10	Wireless remote control system, main body ECU, clock, meters, gauges and vehicle stability control system, electric power steering system
11	DOME	10	Ignition switch light, interior light, vanity lights, luggage compartment light, front personal lights, foot lights
12	-	-	-
13	HEAD LH	10	Left-hand headlight (high beam)
14	HEAD RH	10	Right-hand headlight (high beam)
15	HEAD LL	10	Left-hand headlight (low beam)
16	HEAD RL	10	Right-hand headlight (low beam)
17	-	-	-

No	Name	Amp	Circuit
18	AC INV	15	Power Outlet (115V)
19	TOWING	30	Trailer Towing
20	STV HTR	25	No circuit
21	-	-	Not used
22	DEICER	20	Front Window Deicer
23	HTR	50	Air conditioning system
24	PTC3	50	PTC heater
25	PTC2	50	PTC heater
26	PTC1	50	PTC heater
27	HEAD MAIN	50	"HEAD LL", "HEAD RL", "HEAD LH", "HEAD RH" fuses
28	-	-	Not used
29	RDI	30	without towing package (except 2GR-FE): Electric cooling fans
29	FAN2	50	with towing package (2GR-FE): Electric cooling fans
30	CDS	30	without towing package (except 2GR-FE): Electric cooling fans
30	FAN1	50	with towing package (2GR-FE): Electric cooling fans
31	H-LP CLN	30	No circuit
Relay			
R1			Dimmer

No	Name	Amp	Circuit
R2			Headlight
R3			Daytime running light relay (No.4)
R4			Daytime running light relay (No.3)
R5			Except 2GR-FE: Electric cooling fan (No.3)
R6			Except 2GR-FE: Electric cooling fan (No.2)
R7			Except 2GR-FE: Electric cooling fan (No.1)
R8			Not used
R9			Front Window Deicer
R10			Daytime running light relay (No.2)
R11			Except 2GR-FE: PTC heater (PTC NO.3)
R12			Except 2GR-FE: PTC heater (PTC NO.2) 2GR-FE: Electric cooling fan (No.2)
R13			2GR-FE: Electric cooling fan (No.1) Except 2GR-FE: PTC heater (PTC No.1)

Fuse Box №2 Diagram



Assignment of the fuses and relay in the Engine Compartment Fuse Box №2

№	Name	Amp	Circuit
1	P-SYSTEM	30	3ZR-FAE: Valve lift control driver
2	AMP	30	Audio System (JBL)
3	AM2	30	Starting system
4	IG2	15	Engine control, ignition
5	HAZ	10	Emergency flashers
6	ETCS	10	Cruise Control, Electronically Controlled Transmission and A/T Indicator, Engine Control, Engine Immobiliser System
7	AM2-2	7.5	Starting system
8	-	-	-
9	EFI NO.1	10	Multiport fuel injection system/sequential multiport fuel injection system
10	EFI NO.2	10	Multiport fuel injection system/sequential multiport fuel injection system
11	EFI NO.3	7.5	A/T; From Dec. 2008: Multiport fuel injection system/sequential multiport fuel injection system
11	STA	7.5	Starting system, multiport fuel injection system/sequential multiport fuel injection system
12	GLOW	80	Engine glow system
13	EM PS	60	Electric power steering system
14	MAIN	80	"HEAD MAIN", "ECU-B2", "DOME", "ECU-B", "RAD NO.1" fuses
15	ALT	120	Gasoline, (without towing package): "ABS 1", "ABS 2", "RDI", "CDS", "HTR", "TOWING" fuses

No	Name	Amp	Circuit
15	ALT	140	Diesel, (with towing package): "ABS 1", "ABS 2", "RDI", "CDS", "HTR", "TOWING" fuses
16	P/I	50	"EFI MAIN", "HORN", "A/F", "EDU" fuses
17	-	-	Not used
18	ABS 2	30	Anti-lock brake system, traction control system, vehicle stability control system, downhill assist control system, hill-start assist control system
19	ABS 1	50	Anti-lock brake system, traction control system, vehicle stability control system, downhill assist control system, hill-start assist control system
20	EFI MAIN	20	Multiport fuel injection system/sequential multiport fuel injection system, "EFI NO.1", "EFI NO.2", "EFI NO.3" fuses
21	HORN	10	Horn
22	EDU	25	Multiport fuel injection system/sequential multiport fuel injection system
23	A/F	20	Gasoline: A/F sensor Diesel: Multiport fuel injection system/sequential multiport fuel injection system
23	IGT/INJ	15	3ZR-FAE: Multiport fuel injection system/sequential multiport fuel injection system
Relay			
R1			VSC MTR Relay
R2			Not used
R3			VSC FAIL Relay

Nº	Name	Amp	Circuit
R4			Ignition (IG2)
R5			BRK Relay
R6			Air conditioning (MG CLT)
R7			Fuel pump