

Toyota RAV4 (XA40; 2013-2018) fuses and relays

*In this article, we consider the fourth-generation Toyota RAV4 (XA40), produced from 2012 to 2018. Here you will find fuse box diagrams of **Toyota RAV4 2013, 2014, 2015, 2016, 2017 and 2018**, get information about the location of the fuse panels inside the car, and learn about the assignment of each fuse (fuse layout) and relay.*

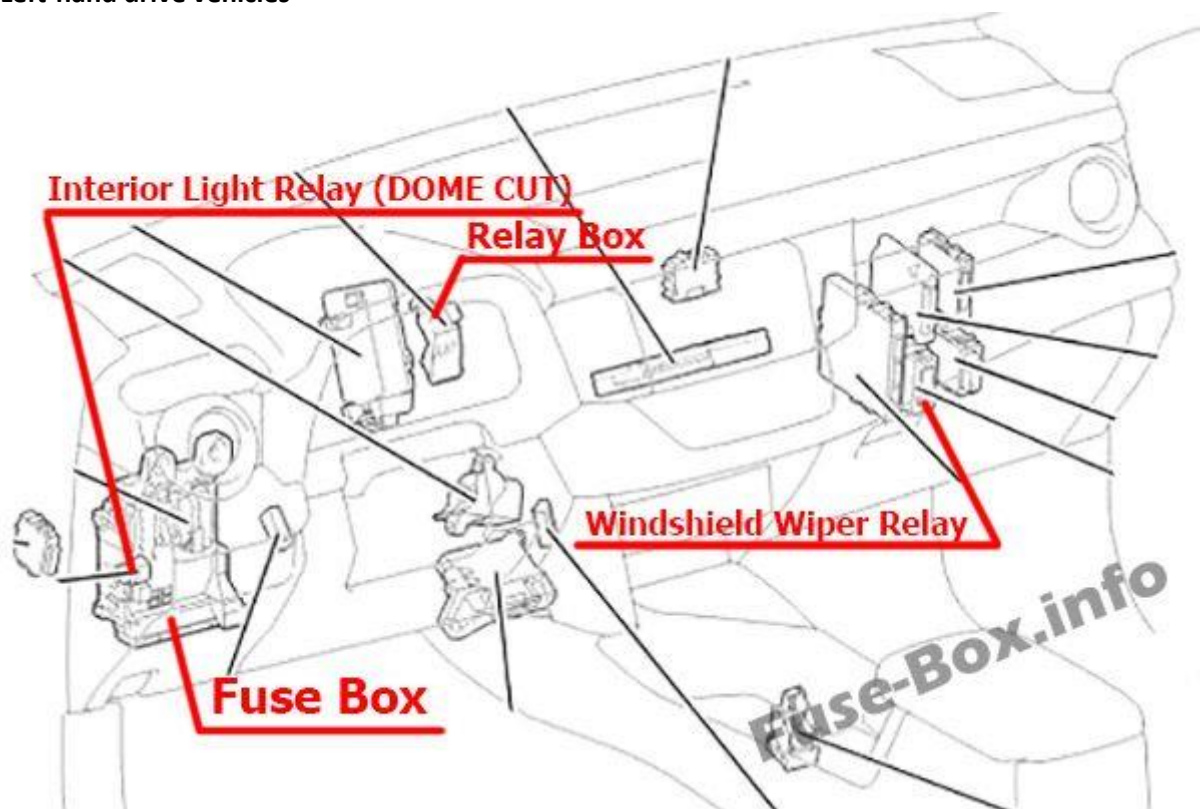
See other Toyota RAV4:

Fuse Layout Toyota RAV4 2013-2018

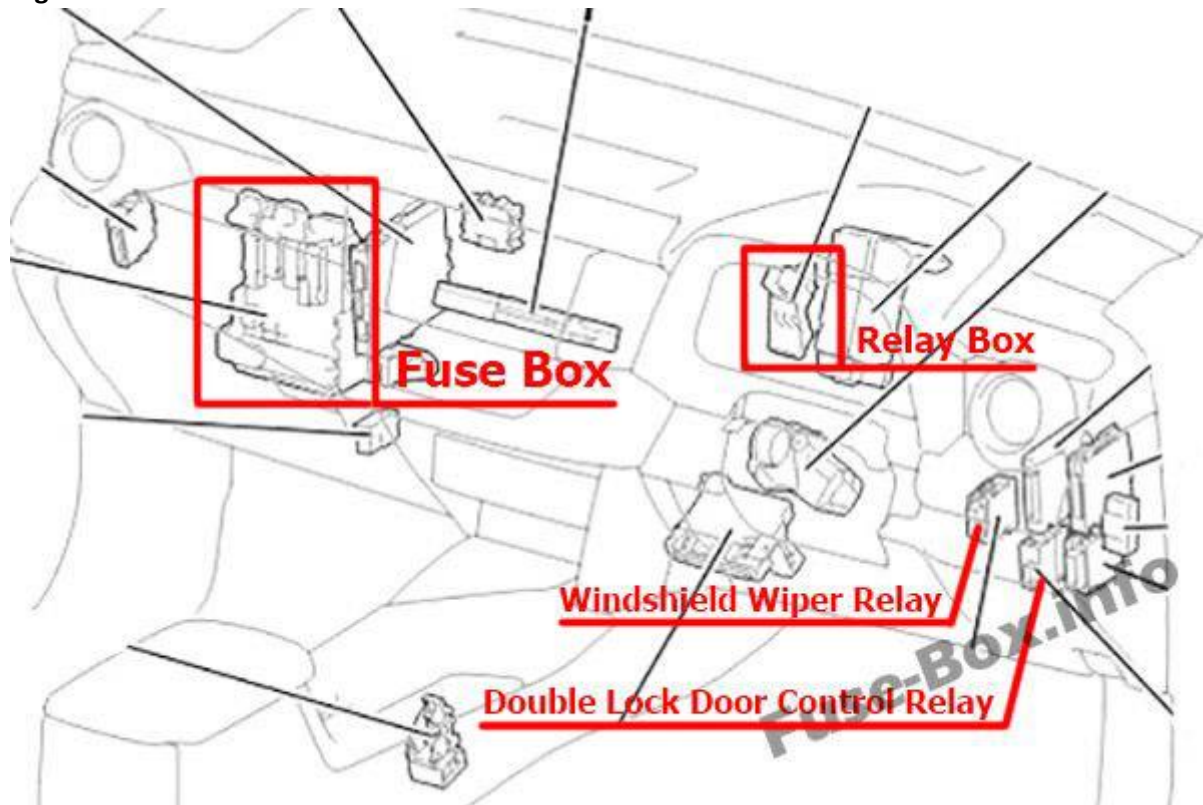
Cigar lighter (power outlet) fuses in the Toyota RAV4 are the fuses #9 "P/OUTLET NO.1" and #18 "P/OUTLET NO.2" in the Instrument panel fuse box.

Passenger Compartment Overview

Left-hand drive vehicles



Right-hand drive vehicles



Passenger Compartment Fuse Box

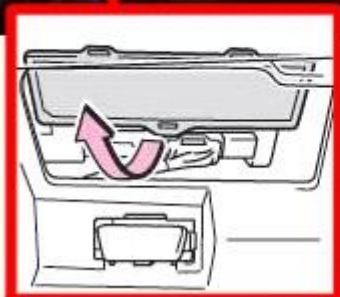
Fuse box location

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

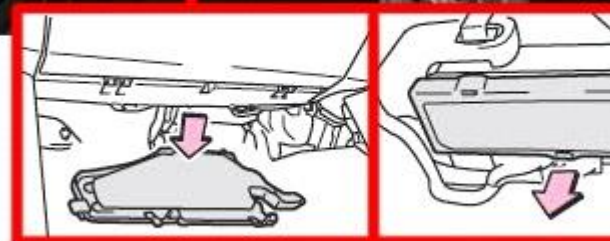
Left-hand drive vehicles: open the lid.

Right-hand drive vehicles: remove the cover and open the lid.

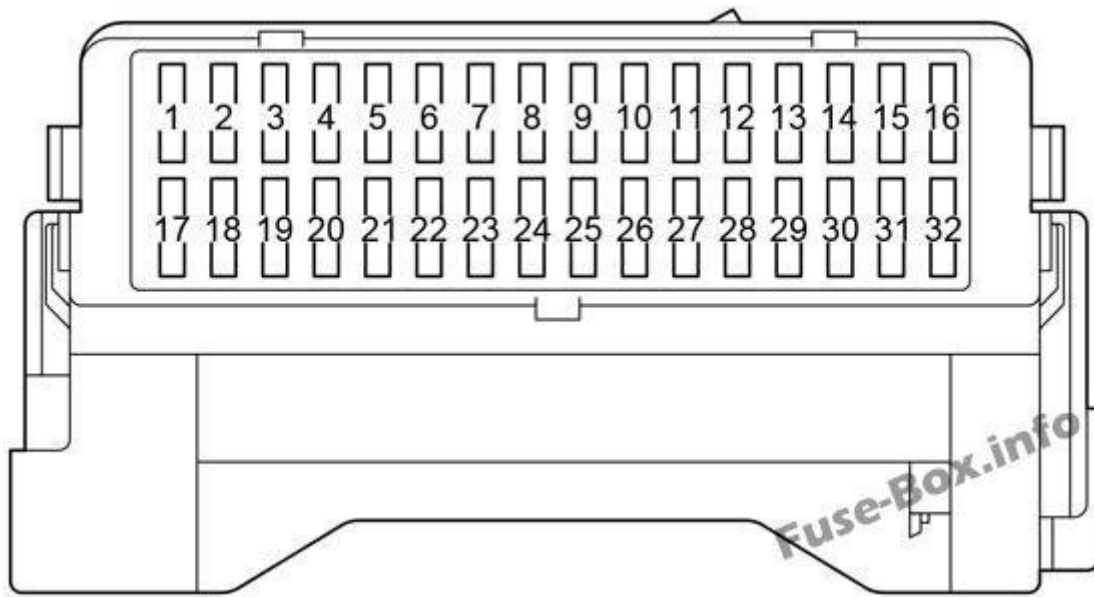
Left-hand drive vehicles



Right-hand drive vehicles



Fuse box diagram

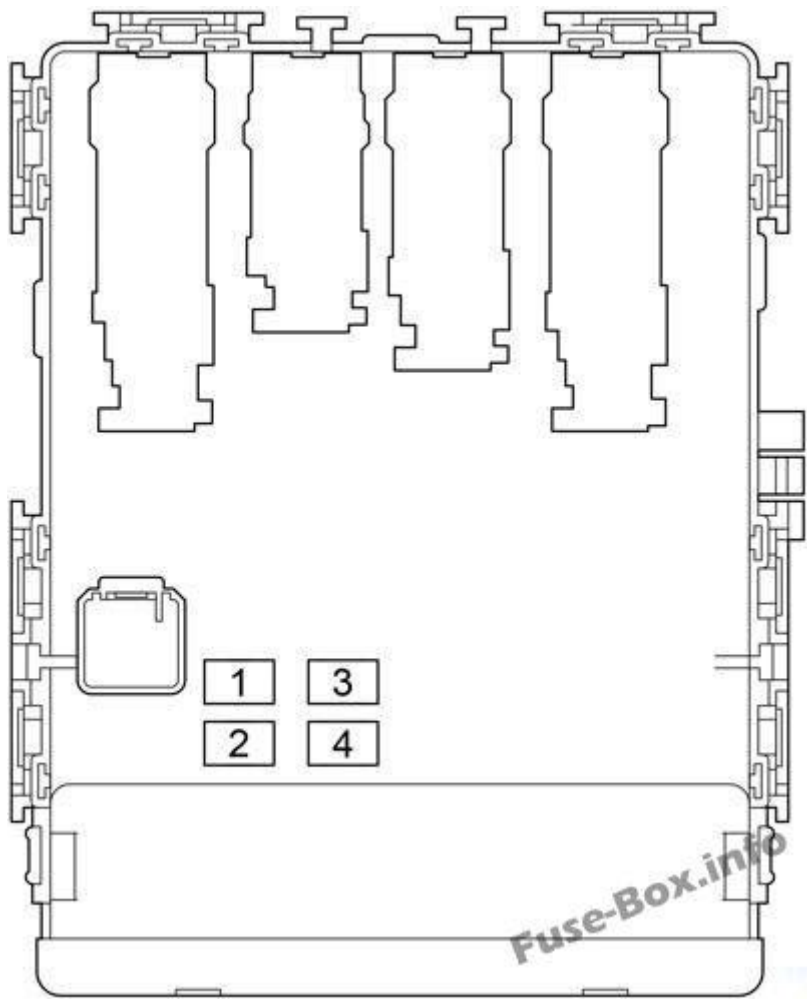


Assignment of the fuses in the Passenger Compartment

No	Name	Amp	Circuit
1	-	-	-
2	STOP	7.5	Stop lights
3	S/ROOF	10	Moon roof
4	AM1	5	"IG1 NO.1", "IG1 NO.2", "IG1 NO.3", "ACC" fuses
5	OBD	7.5	On-board diagnosis system
6	D/L NO.2	20	Before Oct. 2015: Power door lock system (side doors), main body ECU
7	FOG RR	7.5	Rear fog light
8	D/L BACK	10	Power door lock system (back door)
9	P/OUTLET NO.1	15	Power outlets
10	DOOR D	20	Driver's door power window

№	Name	Amp	Circuit
11	DOOR R/R	20	Right-hand rear door power window
12	DOOR R/L	20	Left-hand rear door power window
13	WIP RR	15	Rear window wiper
14	WSH	15	Windshield washer, rear window washer
15	GAUGE	7.5	Back-up lights, Blind Spot Monitor system, inside rear view mirror
16	WIP FR	25	Windshield wipers
17	SFT LOCK-ACC	5	Shift lock system ECU
18	P/OUTLET NO.2	15	Power outlets
19	ACC	7.5	Power outlets, audio system, outside rear view mirrors, main body ECU, clock, electric current sensor
20	PANEL	7.5	VSC OFF switch, instrument cluster (indicators and warning lights), BSM main switch, allwheel drive lock switch, windshield wiper de-icer switch, multiport fuel injection system/sequential multiport fuel injection system, intuitive parking assist ECU, seat heater switches, power outlets, power back door switches, air conditioning system switches, rear window defogger switch, audio system, cup holder light, steering switches, driver module switch
21	TAIL	10	Parking lights, tail lights, license plate lights, side marker lights, fog lights
22	D/L NO.2	20	From Oct. 2015: Power door lock system (side doors), main body ECU
23	EPS-IG	5	Electric power steering

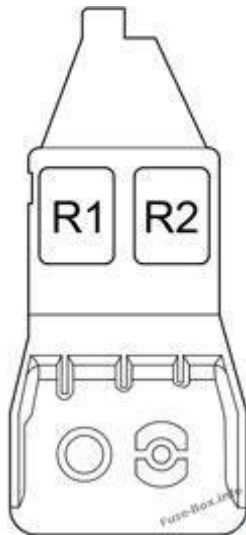
№	Name	Amp	Circuit
24	ECU-IG NO.1	10	Dynamic Torque Control AWD system ECU, steering sensor, instrument cluster (indicators and warning lights), shift control switch
25	ECU-IG NO.2	5	Main body ECU, wireless remote control, shift lock system ECU, smart key system, moon roof ECU, audio system, power back door ECU, tire pressure warning system, LDA system, Blind Spot Monitor system
26	HTR-IG	7.5	Air conditioning system ECU, air conditioning system switches, rear window defogger switch
27	S-HTR LH	10	Before Oct. 2015: Left-hand seat heater
27	S/HTR F/L	10	From Oct. 2015: Left-hand seat heater
28	S-HTR RH	10	Before Oct. 2015: Right-hand seat heater
28	S/HTR F/R	10	From Oct. 2015: Right-hand seat heater
29	IGN	7.5	Fuel pump, multiport fuel injection system/sequential multiport fuel injection system, stop lights, steering lock system ECU
30	A/B	7.5	SRS airbag system ECU, front passenger occupant classification system ECU
31	METER	5	Gauges and meters
32	ECU-IG NO.3	7.5	Alternator, anti-lock brake system/vehicle stability control ECU, windshield wiper de-icer switch, stop lights, "FAN NO.1", "FAN NO.2", "FAN NO.3", "HTR", "PTC", "DEF", "DEICER" fuses



Nº	Name	Amp	Circuit
1	P/SEAT F/L	30	Left-hand power seat
2	PBD	30	Power back door
3	P/SEAT F/R	30	Right-hand power seat
4	P/W-MAIN	30	Front power windows, power window main switch

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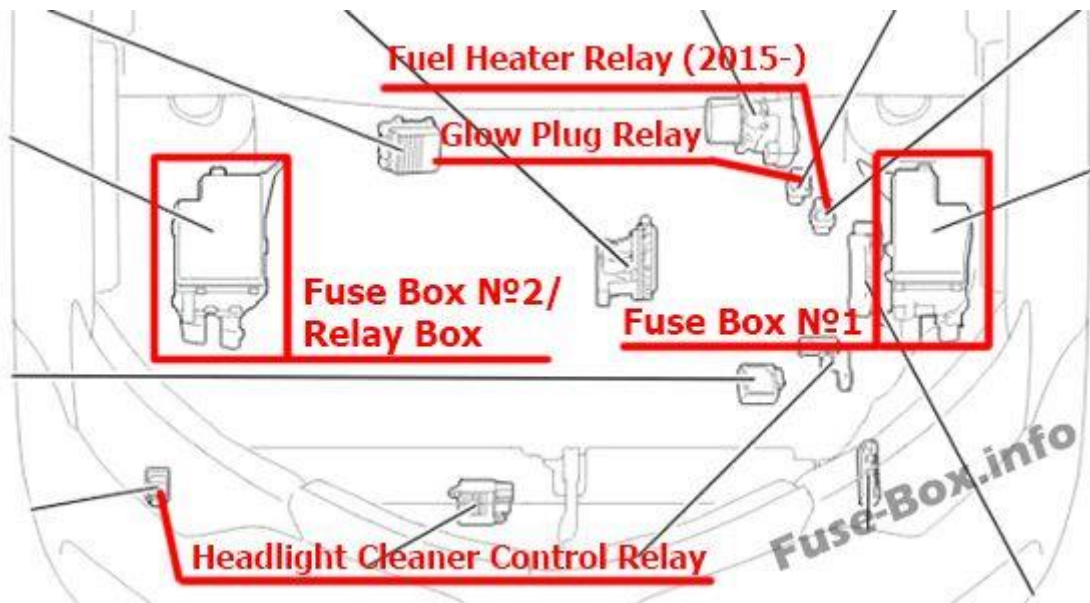
Relay Box



№	Relay
R1	LHD: Theft deterrent (S-HORN) RHD: Interior lights (DOME CUT)
R2	Rear fog light (FOG RR)

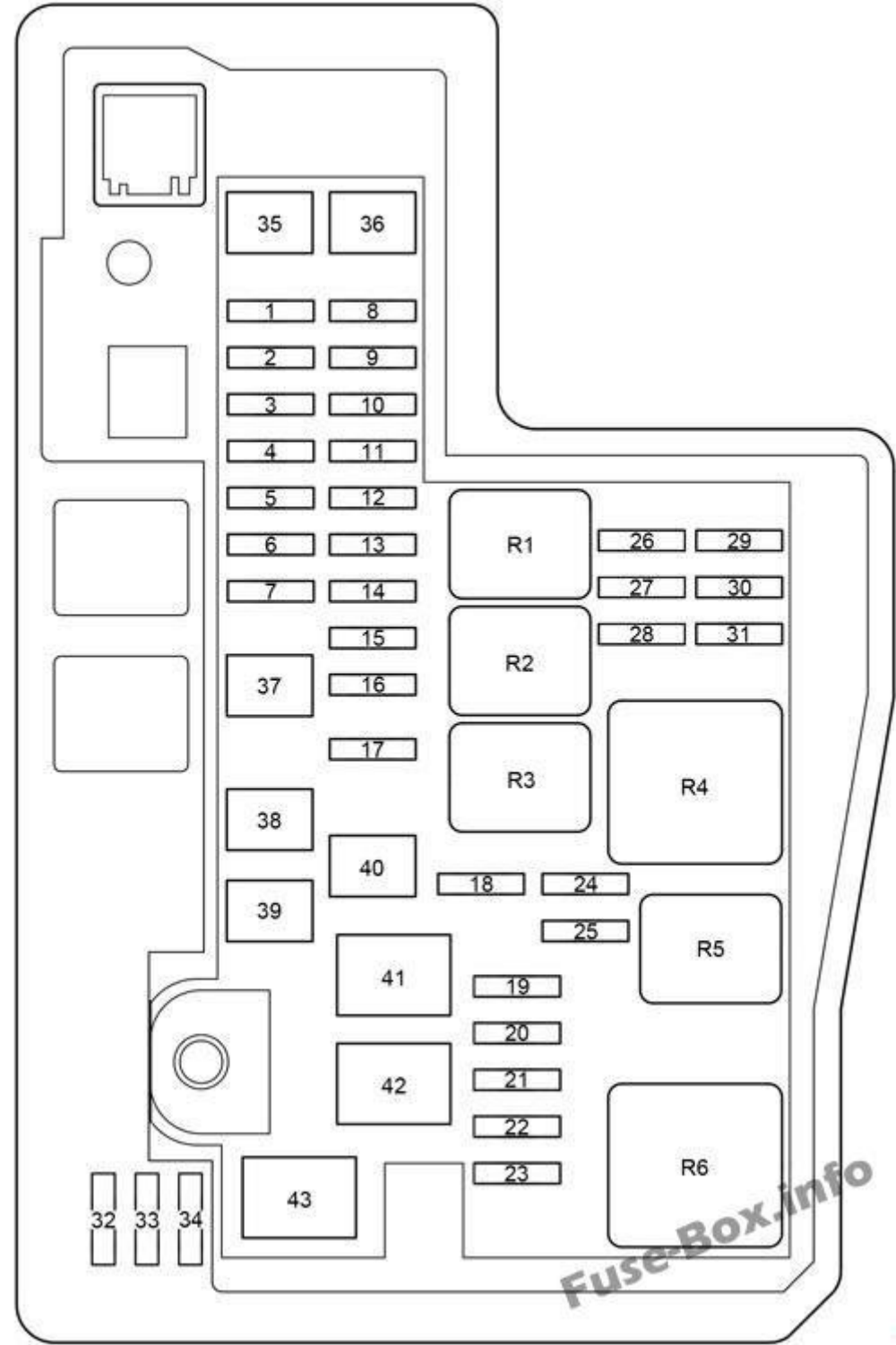
Engine Compartment Fuse Box

Fuse box location





Fuse Box №1 Diagram (Type 1)



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

NO.	Name	Amp	Circuit
1	EFI-MAIN NO.1	20	2AR-FE: Multiport fuel injection system/sequential multiport fuel injection system, "EFI NO.1", "EFI NO.2" fuses

NO.	Name	Amp	Circuit
1	EFI-MAIN NO.1	25	3ZR-FE, 3ZR-FAE: Multiport fuel injection system/sequential multiport fuel injection system, "EFI NO.1", "EFI NO.2" fuses
1	EFI-MAIN NO.1	30	Diesel: Multiport fuel injection system/sequential multiport fuel injection system, automatic transmission ECU, "EFI NO.3" fuses
2	TOWING-B	30	Trailer
3	STRG LOCK	10	Steering lock ECU
4	ECU-B NO.2	10	Air conditioning system ECU, gauges and meters, smart entry & start system, overhead module
5	TURN&HAZ	10	Gauges and meters
6	EFI-MAIN NO.2	20	2AR-FE: Air flow sensor, fuel pump, rear O2 sensor Diesel: "EFI NO.1", "EFI NO.2" fuses
6	EFI-MAIN NO.2	15	3ZR-FE, 3ZR-FAE: Multiport fuel injection system/sequential multiport fuel injection system
6	EFI-MAIN NO.2	7.5	From Oct. 2015: 2WW: Multiport fuel injection system/sequential multiport fuel injection system
7	ST NO.2	20	Before Oct. 2015: Starting system
7	D/L NO.1	30	From Oct. 2015: Back door opener, combination meter, double locking, entry & start system, front fog light, front wiper and washer, headlight, immobiliser system, interior light, power back door, power window, rear fog light, seat belt warning, SRS, starting, steering lock, theft deterrent, tire pressure warning system, wireless door lock control
8	ST	30	Starting system
8	ST NO.1	30	Before Oct. 2015: 3ZR-FAE From Apr. 2015: Starting system
9	AMP	30	Before Oct. 2015: Audio system

NO.	Name	Amp	Circuit
9	AMP/BBC NO.3	30	From Oct. 2015: Audio system
10	ETCS	10	Multiport fuel injection system/sequential multiport fuel injection system
10	FUEL PMP	30	From Oct. 2015: 2WW: Fuel pump
11	S-HORN	10	Before Oct. 2015: Theft deterrent
11	BBC NO.2	30	From Oct. 2015: without Telematics System: Stop & Start system ECU
11	MAYDAY	7.5	From Oct. 2015: with Telematics System: Mayday system
12	IG2	15	Multiport fuel injection system/sequential multiport fuel injection system, "METER", "IGN", "A/B" fuses
13	AM 2	7.5	Starting system, "IG2" fuse
14	ALT-S/ICS	7.5	Electric current sensor, alternator
15	HORN	10	Horn
16	EDU	25	Diesel: Multiport fuel injection system/sequential multiport fuel injection system
16	ST NO.2	20	From Oct. 2015: 3ZR-FAE: Starting system
16	S-HORN	10	From Oct. 2015: with Security Horn: Theft, deterrent
17	D/C CUT	30	"DOME", "ECU-B NO.1", "RADIO" fuses
18	WIPER-S	5	Windshield wiper switch, electric current sensor, multiport fuel injection system/sequential multiport fuel injection system
19	EFI NO.1	10	3ZR-FE: Air flow meter, purge control VSV, ACIS VSV, rear O2 sensor, multiport fuel injection system/sequential multiport fuel injection system

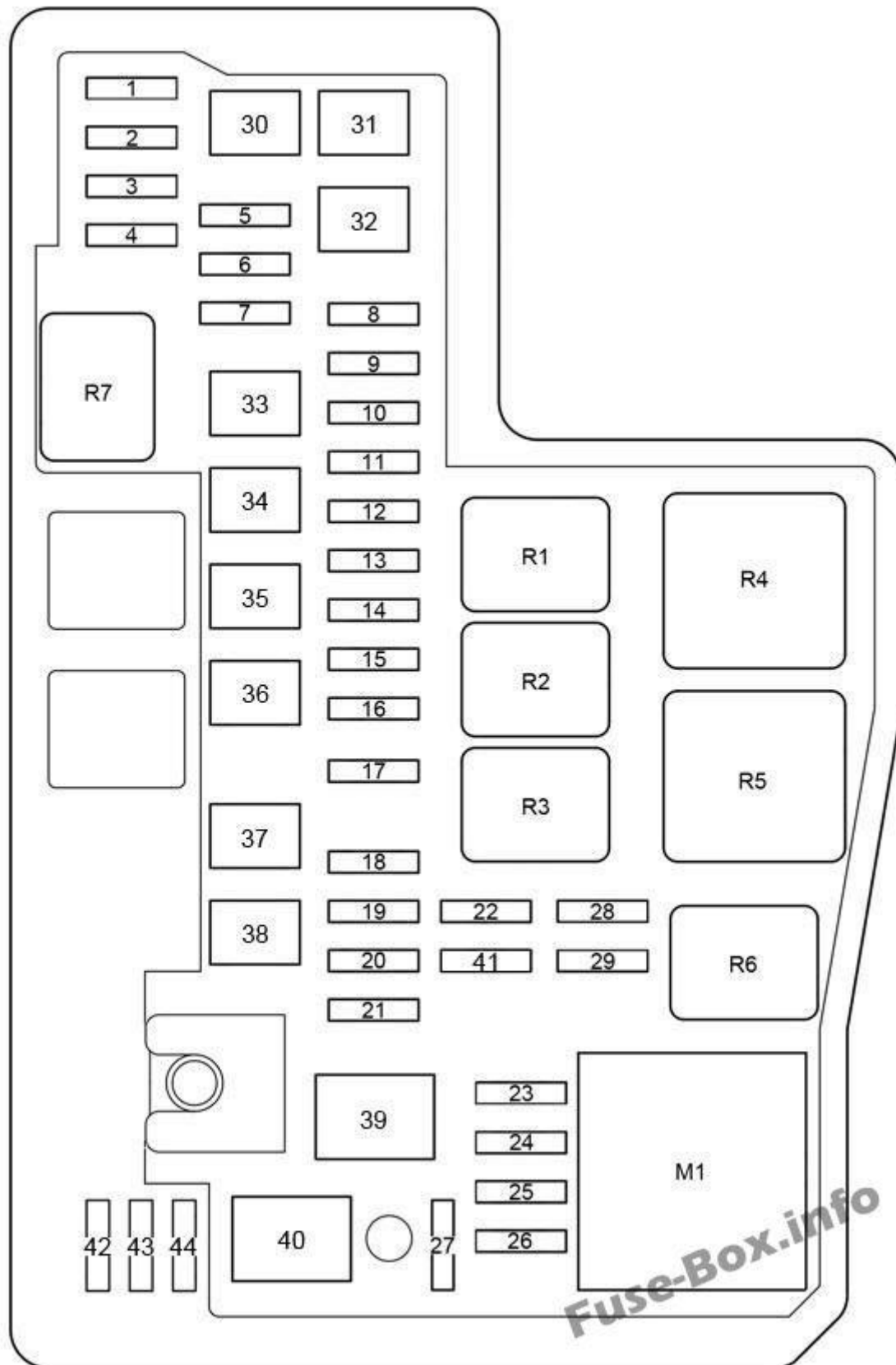
NO.	Name	Amp	Circuit
			3ZR-FAE: Multiport fuel injection system/sequential multiport fuel injection system 2AR-FE: Air flow meter, purge control VSV, ACIS VSV 1AD-FTV: Oil switching valve, EDU, ADD FUEL VLV, EGR cooler bypass VSV, clutch upper switch, Stop & Start system ECU, glow control unit, air flow meter 2AD-FTV, 2AD-FHV: EDU, ADD FUEL VLV, EGR cooler bypass VSV, clutch upper switch, air flow meter, VNT E-VRV
19	EFI NO.1	7.5	From Oct. 2015: 2WW: Multiport fuel injection system/sequential multiport fuel injection system
20	EFI NO.2	10	3ZR-FAE: Air flow sensor, Air flow meter, purge control VSV, ACIS VSV, rear O2 sensor, Stop & Start system ECU 2AR-FE: Multiport fuel injection system/sequential multiport fuel injection system, key off pump module 3ZR-FE, 2AD-FTV, 2AD-FHV: Air flow sensor
20	EFI NO.2	15	From Oct. 2015: 2WW: Multiport fuel injection system/sequential multiport fuel injection system
21	H-LP LH-HI	10	Left-hand headlight (high beam), headlight high beam indicator
22	H-LP RH-HI	10	Right-hand headlight (high beam)
23	EFI NO.3	7.5	Multiport fuel injection system/sequential multiport fuel injection system, automatic transmission ECU
23	EFI NO.3	20	From Oct. 2015: 2WW: Multiport fuel injection system/sequential multiport fuel injection system
24	-	-	-
25	-	-	-
26	RADIO	20	Audio system
27	ECU-B NO.1	10	Wireless remote control, steering sensor, main body ECU, door lock ECU, clock, power back door ECU, tire pressure warning system

NO.	Name	Amp	Circuit
28	DOME	10	Engine switch light, interior lights, vanity lights, luggage compartment light, personal lights
29	H-LP LH-LO	10	Before Oct. 2015: Halogen: Left-hand headlight (low beam), manual headlight leveling dial, headlight leveling system From Oct. 2015: Left-hand headlight (low beam), manual headlight leveling dial, headlight leveling system
29	H-LP LH-LO	15	Before Oct. 2015: HID: Left-hand headlight (low beam), manual headlight leveling dial, headlight leveling system
30	H-LP RH-LO	10	Before Oct. 2015: Halogen: Right-hand headlight (low beam) From Oct. 2015: Right-hand headlight (low beam)
30	H-LP RH-LO	15	Before Oct. 2015: HID: Right-hand headlight (low beam)
31	-	-	-
32	-	-	-
33	-	-	-
34	-	-	-
35	FUEL HTR	50	From Oct. 2015: 2WW: Fuel heater
36	BBC	40	Stop & Start system ECU
37	VLVMATIC	30	VALVEMATIC system
37	EFI MAIN	50	From Oct. 2015: 2WW: ABS, auto LSDcruise control, downhill assist control, dynAM1c radar cruise control, engine control, hill-start assist control, panorAM1c view monitor system, stop & start system, TRC, VSC
38	ABS NO.2	30	Vehicle stability control, anti-lock brake system
39	ABS NO.2	50	Vehicle stability control, anti-lock brake system

NO.	Name	Amp	Circuit
40	H-LP-MAIN	50	"H-LP RH-LO", "H-LP LH-LO", "H-LP RH-HI", "H-LP LH-HI" fuses
41	GLOW	80	Glow control unit
42	EPS	80	Electric power steering
43	ALT	120	Before Oct. 2015: Gasoline:"STOP", "S/ROOF", "AM1", "OBD", "D/L NO.2", "FOG RR", "D/L BACK", "P/OUTLET NO.1", "DOOR D", "DOOR R/R", "DOOR R/L", "WIP RR", "WSH", "GAUGE", "WIP FR", "SFT LOCK-ACC", "P/OUTLET NO.2", "ACC", "PANEL", "TAIL", "D/L NO.2", "EPS-IG", "ECU-IG NO.1", "ECU-IG NO.2", "HTR-IG", "S-HTR LH", "S-HTR RH", "IGN", "A/B", "METER", "ECU-IG NO.3" fuses
43	ALT	140	Before Oct. 2015: Diesel, 3ZR-FAE From Apr. 2015; From Oct. 2015: Except 2WW: "ABS NO.1", "ABS NO.2", "RDI FAN", "FAN NO.1", "S/HTR R/L", "DEICER", "FOG FR", "S/HTR R/R", "CDS FAN", "FAN NO.2", "HTR", "STV HTR", "TOWING-ALT", "HWD NO.1", "HWD NO.2", "H-LP CLN", "DRL", "PTC HTR NO.1", "PTC HTR NO.2", "PTC HTR NO.3", "DEF", "NOISE FILTER", "STOP", "S/ROOF", "AM1", "OBD", "D/L NO.2", "FOG RR", "D/L BACK", "P/OUTLET NO.1", "DOOR D", "DOOR R/R", "DOOR R/L", "WIP RR", "WSH", "GAUGE", "WIP FR", "SFT LOCK-ACC", "P/OUTLET NO.2", "ACC", "PANEL", "TAIL", "D/L NO.2", "EPS-IG", "ECU-IG NO.1", "ECU-IG NO.2", "HTR-IG", "S-HTR LH", "S-HTR RH", "IGN", "A/B", "METER", "ECU-IG NO.3" fuses
Relay			
R1			Engine control unit (EFI-MAIN NO.2)
R2			Ignition (IG2)
R3			Diesel: Engine control unit (EDU) Gasoline: Fuel pump (C/OPN) 2WW: Fuel pump (FUEL PMP)

NO.	Name	Amp	Circuit
R4			Before Oct. 2015: Headlight (H-LP) From Oct. 2015: Dimmer
R5			Engine control unit (EFI-MAIN NO.1)
R6			Before Oct. 2015: Dimmer From Oct. 2015: Except 2AR-FE: Headlight (H-LP) 2AR-FE: Headlight / daytime running light (H-LP/DRL)

Fuse Box №1 Diagram (Type 2)



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Assignment of the fuses and relay in the Engine Compartment Fuse Box №1 (Type 2)

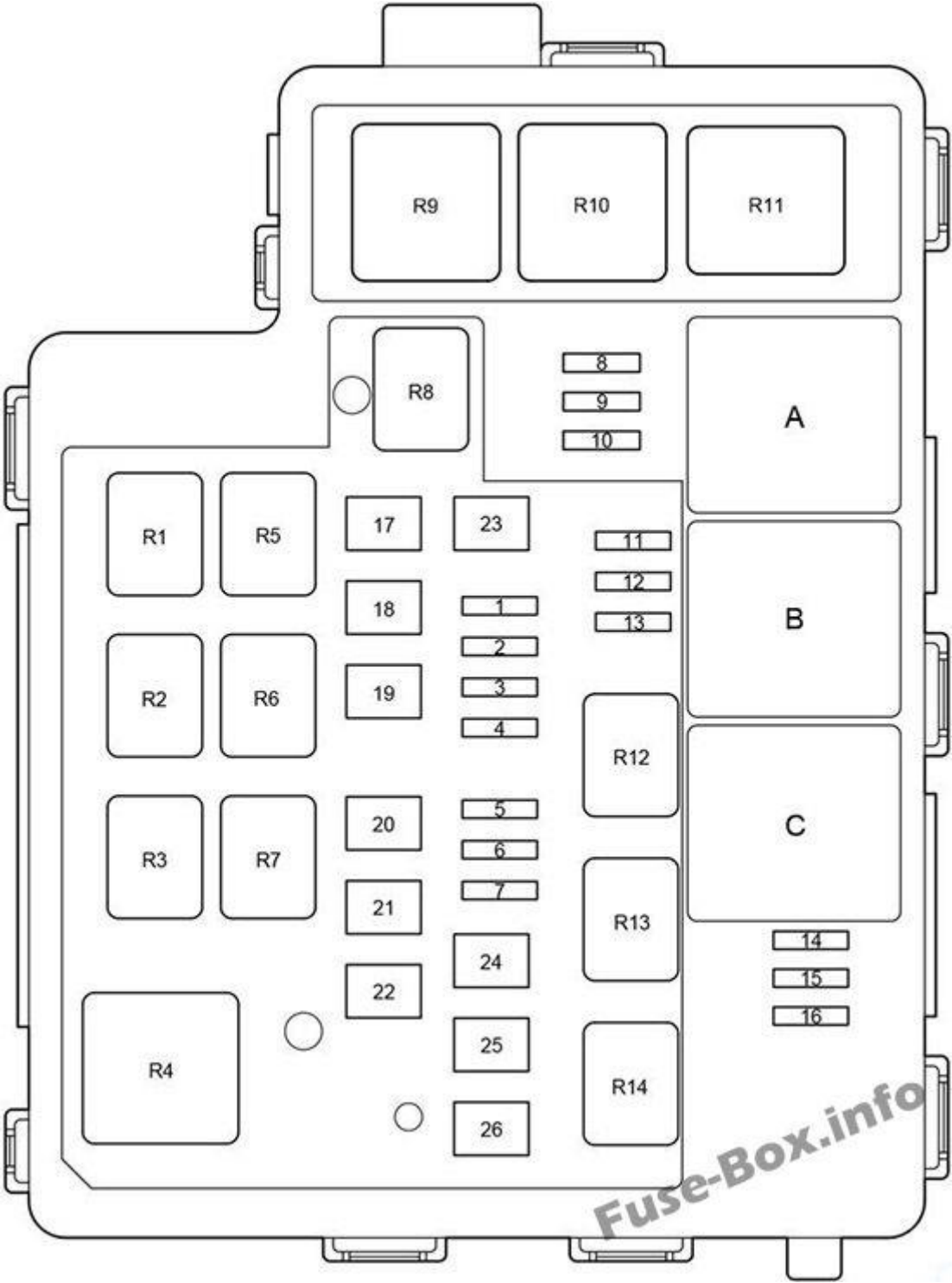
No	Name	Amp	Circuit
1	RADIO	20	Audio system
2	ECU-B NO.1	10	Wireless remote control, steering sensor, main body ECU, clock, power back door ECU, tire pressure warning system, driving position memory ECU
3	DOME	10	Engine switch light, interior lights, vanity lights, luggage compartment light, personal lights
4	-	-	-
5	DEICER	20	Windshield wiper de-icer
6	-	-	-
7	FOG FR	7.5	Fog lights, fog light indicator
8	AMP	30	Audio system
9	ST	30	Starting system
10	EFI-MAIN NO.1	20	Multiport fuel injection system/sequential multiport fuel injection system, "EFI NO.1", "EFI NO.2" fuses
11	-	-	-
12	IG2	15	Multiport fuel injection system/sequential multiport fuel injection system, "METER", "IGN", "A/B" fuses
13	TURN&HAZ	10	Gauges and meters
14	AM2	7.5	Starting system, "IG2" fuse
15	ECU-B NO.2	10	Air conditioning system ECU, gauges and meters, front passenger occupant classification system ECU, smart key system
16	STRG LOCK	10	Steering lock ECU

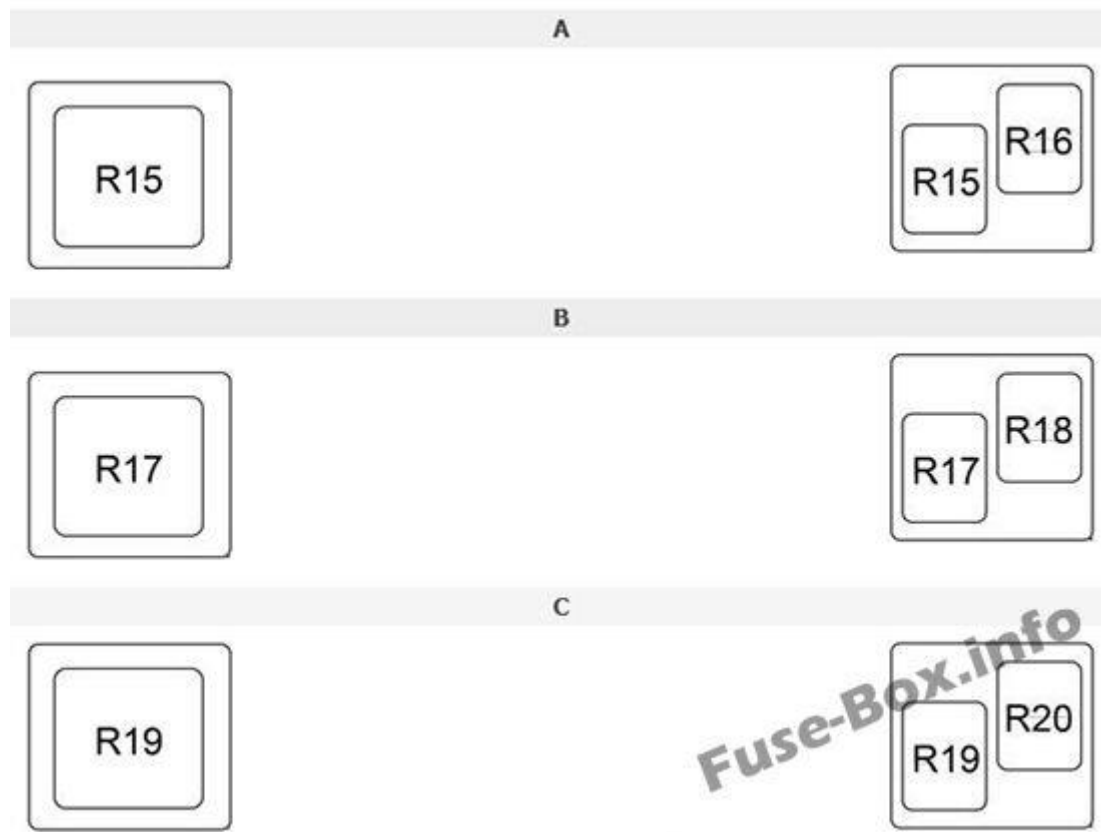
Nº	Name	Amp	Circuit
17	D/C CUT	30	"DOME", "ECU-B NO.1", "RADIO" fuses
18	HORN	10	Horn
19	ETCS	10	Multiport fuel injection system/sequential multiport fuel injection system
20	EFI-MAIN NO.2	20	Air flow sensor, fuel pump, rear O2 sensor
21	ALT-S/ICS	7.5	Electric current sensor
22	MIR HTR	10	Outside rear view mirror defoggers, multiport fuel injection system/sequential multiport fuel injection system
23	EFI NO.1	10	Air flow meter, purge control VSV, ACIS VSV
24	EFI NO.2	10	Multiport fuel injection system/sequential multiport fuel injection system, key off pump module
25	H-LP LH-HI	10	Left-hand headlight (high beam), headlight high beam indicator
26	H-LP RH-HI	10	Right-hand headlight (high beam)
27	-	-	-
28	H-LP LH-LO	10	Left-hand headlight (low beam)
29	H-LP RH-LO	10	Right-hand headlight (low beam)
30	CDS FAN	30	Electric cooling fans
31	HTR	50	Air conditioning system
32	H-LP-MAIN	50	Daytime running lights, "H-LP RH-LO", "H-LP LH-LO", "H-LP RH-HI", "H-LP LH-HI" fuses

No	Name	Amp	Circuit
33	PTC HTR NO.2	30	PTC heater
34	PTC HTR NO.1	30	PTC heater
35	DEF	30	Rear window defogger, "MIR HTR" fuse
36	ABS NO.2	30	Vehicle stability control
37	RDI FAN	30	Electric cooling fans
38	ABS NO.1	50	Vehicle stability control
39	EPS	80	Electric power steering
40	ALT	120	"ABS NO.1", "ABS NO.2", "PTC HTR NO.1", "PTC HTR NO.2", "DEICER", "HTR", "RDI FAN", "CDS FAN", "FOG FR", "DEF" fuses
41	WIPER-S	5	Windshield wiper switch, electric current sensor
42	SPARE	10	Spare fuse
43	SPARE	20	Spare fuse
44	SPARE	30	Spare fuse
Relay			
R1			Engine control unit (EFI-MAIN NO.2)
R2			Ignition (IG2)
R3			Fuel pump (C/OPN)
R4			Short Pin

№	Name	Amp	Circuit
R5			Headlight (H-LP)
R6			Engine control unit (EFI-MAIN NO.1)
R7			Rear window defogger (DEF)
M1			Daytime running lights module

Fuse Box №2 Diagram





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

№	Name	Amp	Circuit
1	DRL	5	Daytime running lights
2	TOWING-ALT	30	Trailer
3	FOG FR	7.5	Front fog lights, front fog light indicator
4	NOISE FILTER	10	Noise filter
5	STVHTR	25	Power heater
6	S/HTR R/R	10	From Oct. 2015: Seat heater (rear passenger's seat)
7	DEICER	20	Windshield wiper de-icer

No	Name	Amp	Circuit
7	S/HTR R/L	10	From Oct. 2015: Seat heater (rear passenger's seat)
8	CDS FAN NO.2	5	From Oct. 2015: Diesel: Electric cooling fans
9	-	-	-
10	RDI FAN NO.2	5	From Oct. 2015: Diesel: Electric cooling fans
11	-	-	-
12	-	-	-
13	MIR HTR	10	Outside rear view mirror defoggers, multiport fuel injection system/sequential multiport fuel injection system
14	-	-	-
15	-	-	-
16	-	-	-
17	PTC HTR NO.1	50	600W, 840W: PTC heater
17	PTC HTR NO.1	30	330W: PTC heater
18	PTC HTR NO.2	50	840W: PTC heater
18	PTC HTR NO.2	30	330W: PTC heater
19	PTC HTR NO.3	50	840W: PTC heater

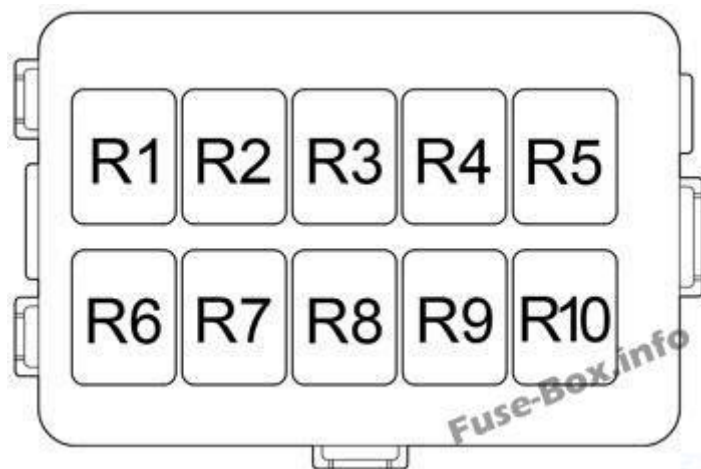
No	Name	Amp	Circuit
19	PTC HTR NO.3	30	330W: PTC heater
20	CDS FAN	30	Electric cooling fans
20	CDS FAN	40	From Oct. 2015: 2WW: Electric cooling fans
20	FAN NO.2	50	From Oct. 2015 Diesel: with Trailer Towing: Electric cooling fans
21	RDI FAN	30	Electric cooling fans
21	RDI FAN	40	From Oct. 2015: 2WW: Electric cooling fans
21	FAN NO.1	50	From Oct. 2015 Diesel: with Trailer Towing: Electric cooling fans
22	HTR	50	Air conditioning system
23	DEF	30	Rear window defogger, "MIR HTR" fuse
24	HWD NO.2	50	Heated windshield defroster
25	H-LP CLN	30	Headlight cleaner
26	HWD NO.1	50	Heated windshield defroster
Relay			
R1			Electric cooling fan (FAN NO.2)
R2			Front fog lights (FOG FR)
R3			Horn
R4			Heater (HTR)

Nº	Name	Amp	Circuit
R5			Daytime running lights (DRL)
R6			Electric cooling fan (FAN NO.3)
R7			Electric cooling fan (FAN NO.1)
R8			Rear window defogger (DEF)
R9			PTC heater (PTC HTR NO.1)
R10			PTC heater (PTC HTR NO.2) Heated windshield defroster (HWD NO.1)
R11			PTC heater (PTC HTR NO.3) Heated windshield defroster (HWD NO.2)
R12			Stop lights (STOP LP)
R13			Starter (ST), (ST NO.1)
R14			Heated windshield defroster (DEICER) Heated steering wheel (STRG HTR) Heated windshield defroster / heated steering wheel (DEICER/STRG HTR)
A			
R15			From Oct. 2015: with Trailer towing + Diesel: Electric cooling fans (FAN NO.1) Rear seat heater (S/HTR R/L)
R16			From Oct. 2015: Rear seat heater (S/HTR R/R)
B			

No	Name	Amp	Circuit
R17			From Oct. 2015: with Trailer towing + Diesel: Electric cooling fans (FAN NO.2) Washer nozzle heater (WSH NZL HTR)
R18			Starter (ST NO.2)
C			
R19			330W: PTC heater (PTC HTR NO.1) 600W: PTC heater (PTC HTR NO.3)
R20			PTC heater (PTC HTR NO.2)

Advertisements

Relay Box (if equipped)



Engine Compartment Relay Box

No	Relay
R1	Front fog lights (FOG FR)
R2	Air conditioner compressor clutch (MG/CLT)
R3	PTC heater (PTC HTR NO.2)
R4	-

№	Relay
R5	Horn
R6	Electric cooling fan (FAN NO.2)
R7	PTC heater (PTC HTR NO.1)
R8	Electric cooling fan (FAN NO.3)
R9	Starter (ST)
R10	Electric cooling fan (FAN NO.1)