

Toyota Ractis 2G (Verso-S) fuse and relay

Toyota Ractis 2nd generation was produced in 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018. During this time, the model has been updated. In some countries it is known as **Toyota Verso-S**. In this publication you will find information on the location of electronic control units, a description of fuses and relays Toyota Ractis 2 (Toyota Verso-S) with box diagrams and their locations. Note the cigarette lighter fuse.



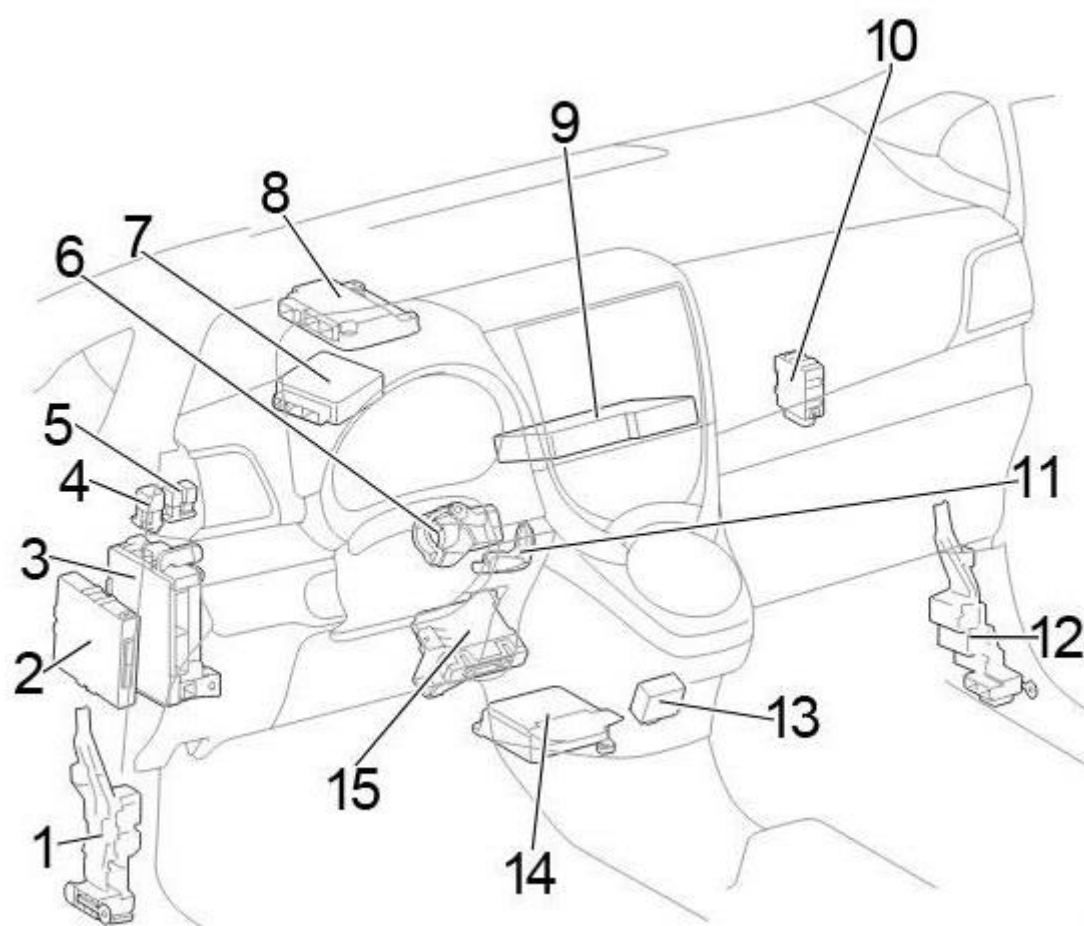
The location of the boxes and the purpose of the elements in them may differ from the one presented. Check the purpose of the elements with your diagrams on the box cover.

Passenger compartment

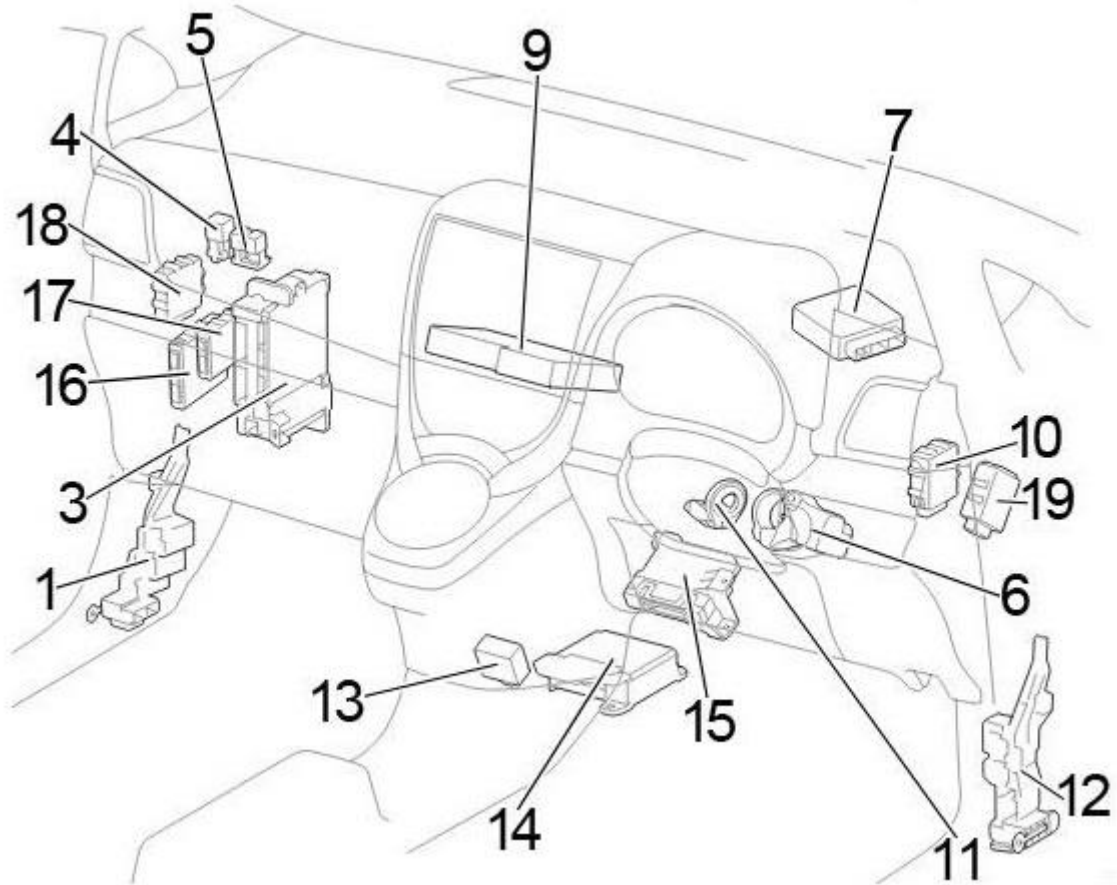
Location

General layout of boxes in the cabin

LHD



RHD



Assignment

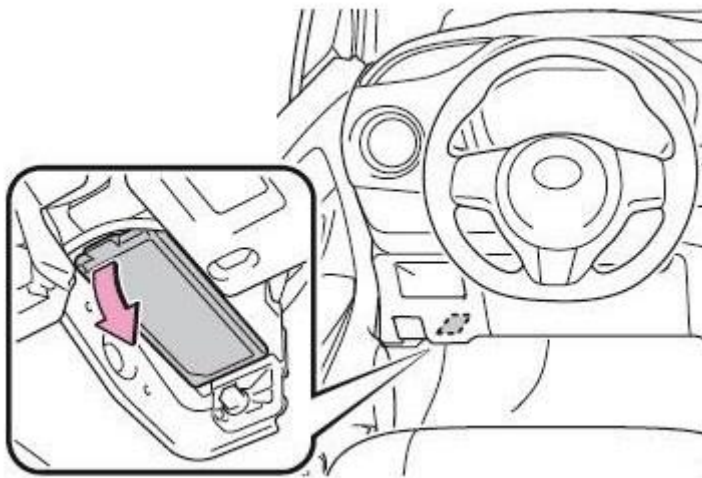
1. Junction Block
2. **LHD:**
Engine Stop and Start ECU
without Stop & Start System: Power Management Control ECU
3. Fuse Box / Main Body ECU
4. Heater Relay (HTR)
5. Relay Box
6. Steering Lock Actuator
7. Power Steering ECU
8. Transmission Control ECU
9. Extension Module
10. Windshield Wiper Relay
11. Transponder Key Amplifier
12. Junction Block
13. Shift Lock Control ECU

- 14. Center Airbag Sensor
- 15. A/C Amplifier
- 16. **RHD**: Engine Stop and Start ECU
- 17. **RHD**: Power Management Control ECU
- 18. **RHD**: Headlight Leveling ECU
- 19. **RHD**: Double Lock Door Control Relay

Fuse Box

It is located under the dashboard, covered with a protective cover.

LHD



RHD

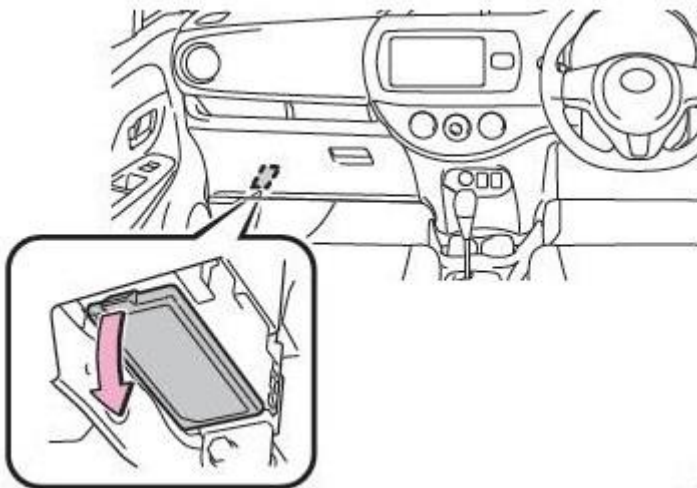


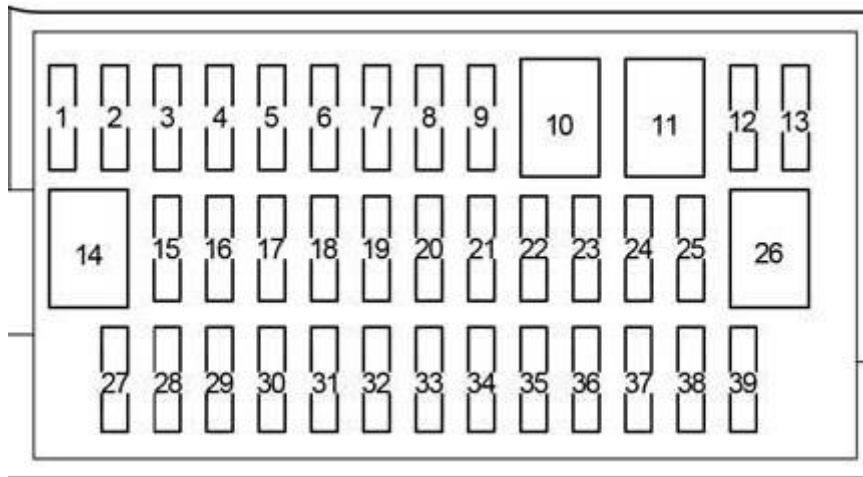
Photo example of location



Diagram from the box cover



Diagram



Designation

1	–
2	–
3	–
4	15A S-HTR – Heated seats
5	–
6	–
7	7,5A ECU-B NO.3 – Power mirrors
8	25A SHADE – Panoramic roof shade
9	–
10	–
11	–
12	25A D-D / L – Double blocking, Multiport fuel injection system/ sequential multiport fuel injection system
13	–
14	–
15	15A FOG FR – up to June 2013: Front fog light

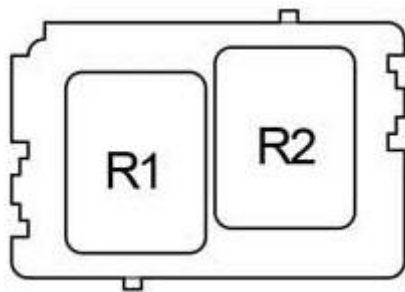
	15A FOG FR – From June 2013 (TMC): Front Fog Light (TMC – Toyota Motor Corporation)
	7,5A FOG FR – from June 2013 (TMMF): Front fog light (TMMF – Toyota Motor Manufacturing France)
16	7,5A AM1 – Starting system
17	7,5A STOP – Multiport fuel injection system / sequential multiport fuel injection system, VSC, stop lamp, auxiliary stop light
18	7,5A FOG RR – Rear fog light
19	–
20	7.5 OBD – Diagnostic connector
21	25A D / L – Central locking, body ECM
22	5A ACC – Body ECM, Power Mirrors, Audio System, Gear Selector Lock
23	15A CIG – Socket (cigarette lighter)
24	20A DOOR – Window regulators
25	20A DOOR R / L – Window regulators
26	30A P / W – Power Windows
27	15A WIPER RR – Rear wiper
28	20A WIPER – Wiper
29	15A WASHER – Washer for glass
30	–
31	–
32	10A GAUGE – Reversing lamps, gear selector lock, audio system, charging system, multiport fuel injection system / sequential multiport fuel injection system
33	7,5A A / C – Air conditioning, heated rear window, heated mirrors
34	5A ECU-IG NO.2 – VSC

35	5A ECU-IG NO.1 – Cooling Fan, Heated Rear Window, VSC, Electric Power Steering, Body Control Module, Wireless Control System, Tire Pressure Monitoring System
36	20A DOOR P – Window regulators
37	20A DOOR R / R – Window regulators
38	5A PANEL – Instrument Cluster, Instrument Panel Light, Light Switch
39	10A TAIL NO.2 – Side light, license plate light

The fuse number 23, 15A, is responsible for the operation of the cigarette lighter.

Relay Box

Diagram

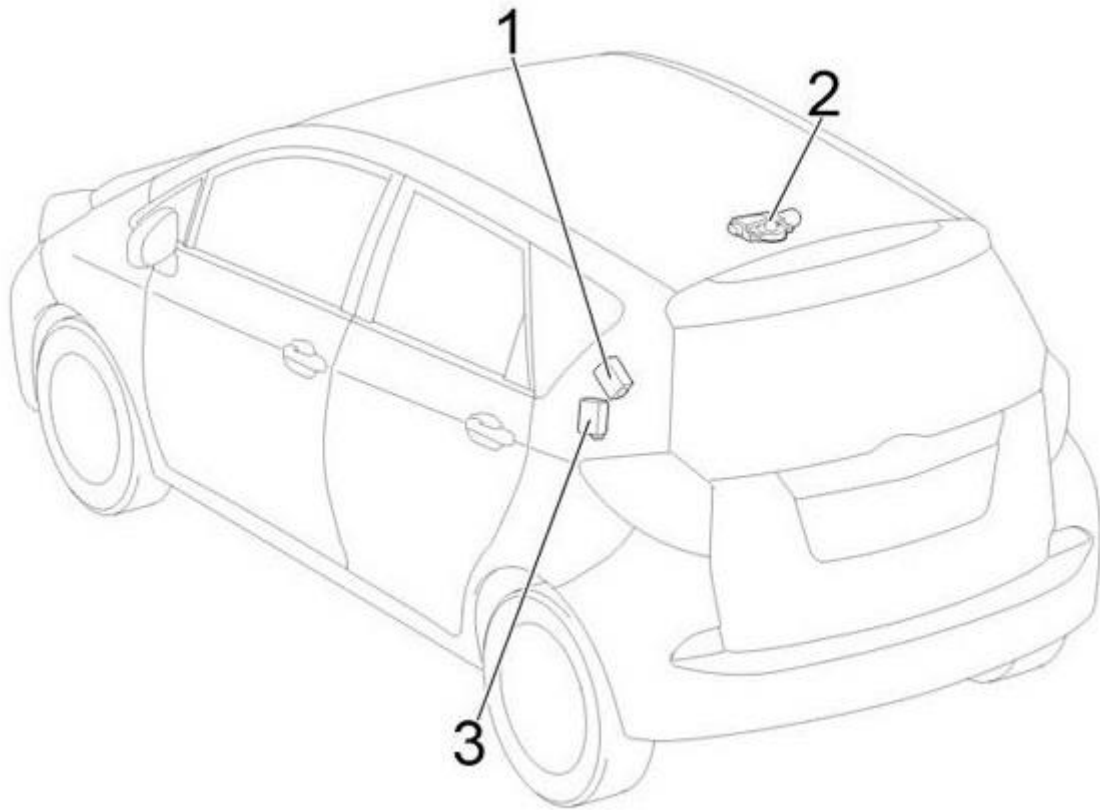


Decoding

- R1 – Interior lighting (DOME CUT)
- R2 – Front fog light (FR FOG)

Additional Elements

Diagram



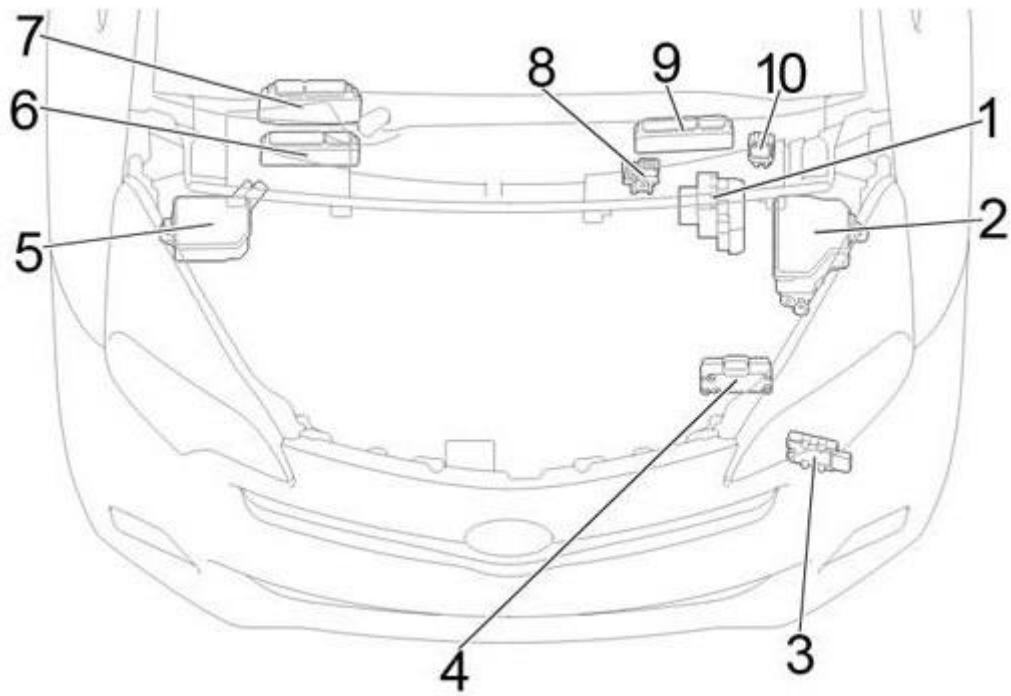
Designation

1. Door Control Receiver
2. Sliding Roof Drive Gear
3. Tire Pressure Warning ECU and Receiver

Engine compartment

Location

General arrangement of blocks under the hood



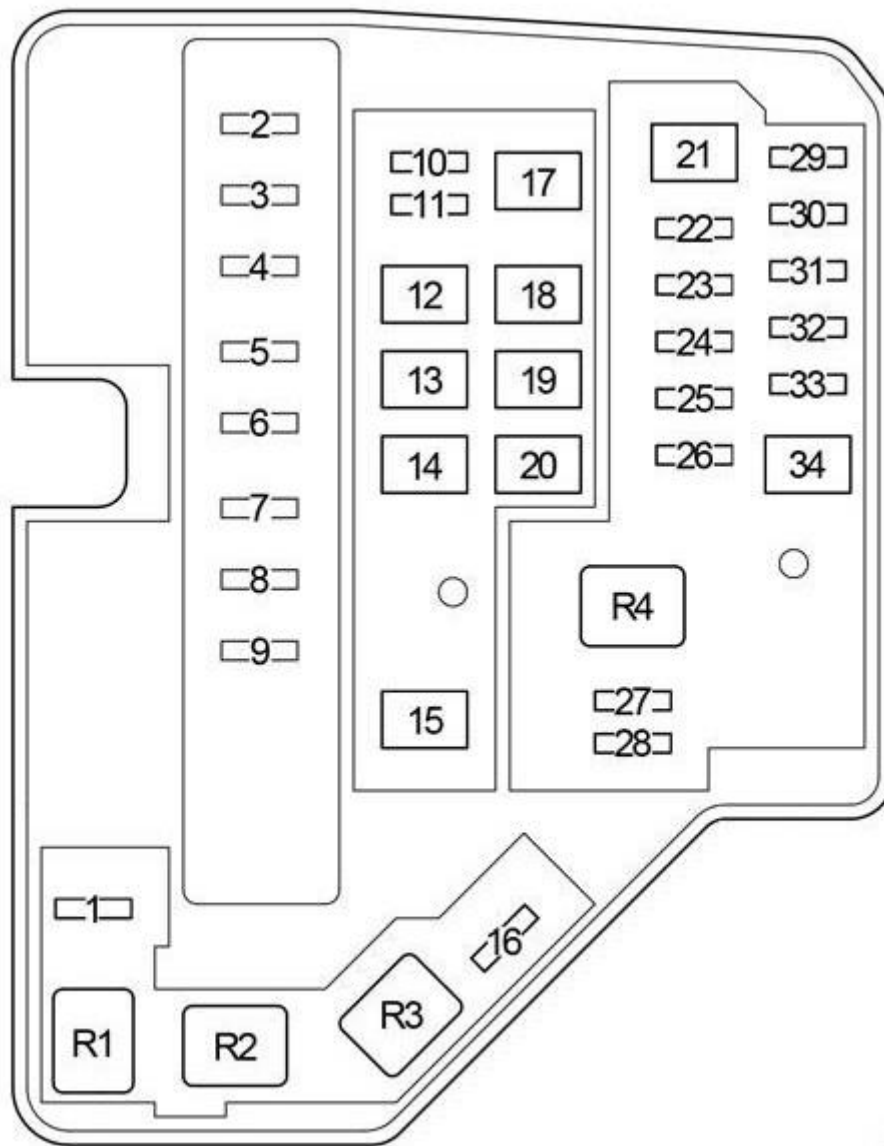
Appointment

1. Skid Control ECU with Actuator
2. Fuse and Relay Box
3. Fuel Pump Control ECU
4. ECO Run Vehicle Converter
5. Fuse and Relay Box No.2
6. **LHD 1NR-FE:** ECM
7. **LHD 1ND-TV:** ECM
8. Fusible Link Block
9. **RHD:** ECM
10. Glow Plug Relay

Fuse and Relay Box

Photo – example

Diagram from the box cover



Protected components

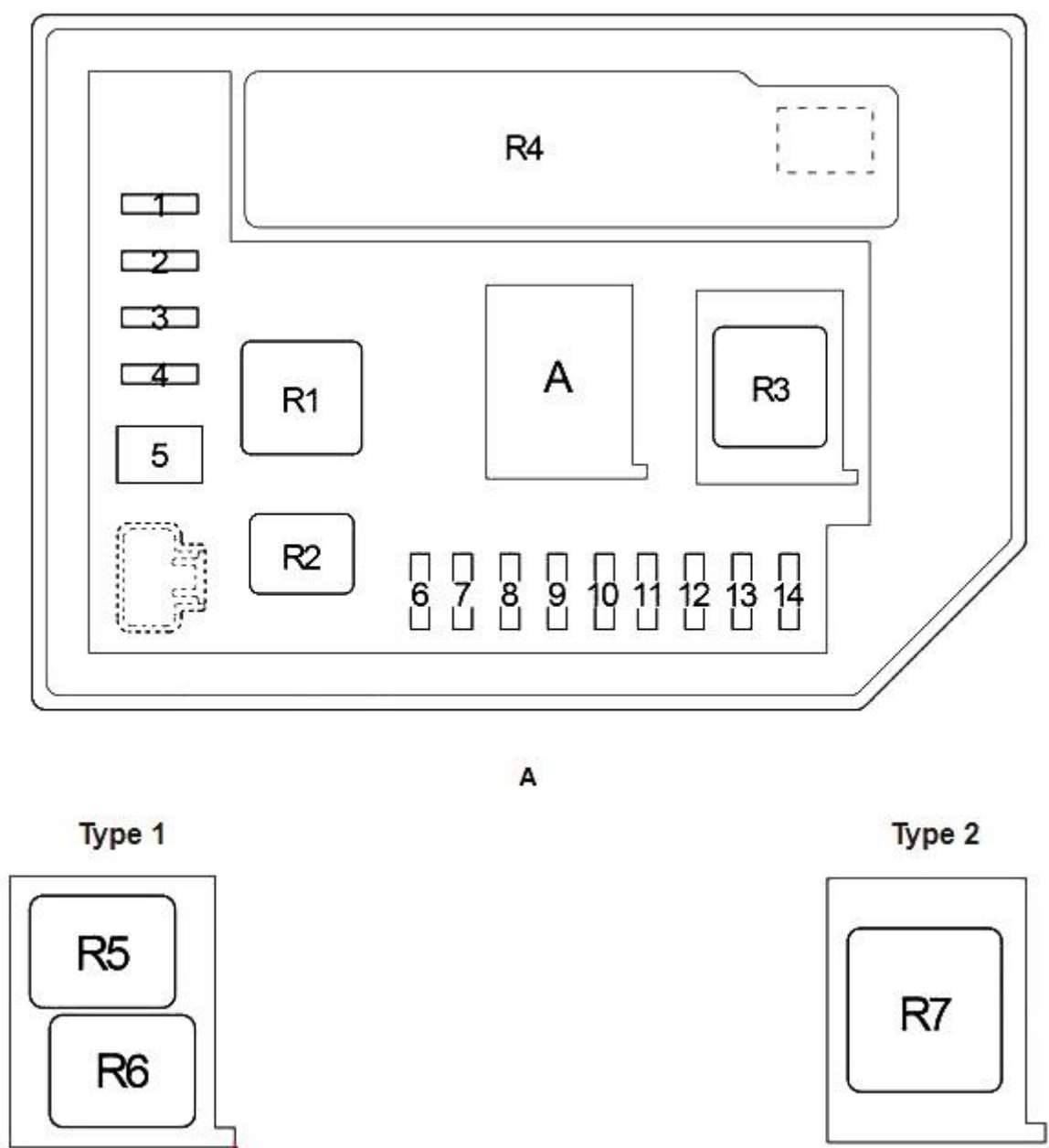
1	7.5A ID / UP – Multiport fuel injection system / sequential multiport fuel injection system
2	20A EFI MAIN – Petrol: Multiport fuel injection system / sequential multiport fuel injection system
	30A ECD MAIN – Diesel: multiport fuel injection system / sequential multiport fuel injection system, “EFI NO.2” fuse
3	7,5A EFI NO.3 – Multiport fuel injection system / sequential multiport fuel injection system
4	10A HORN – Signal

5	10A EFI NO.2 – Stop & Start System, Multiport Fuel Injection System / Sequential Multiport Fuel Injection System
6	Intelligent entry and start system, multiport fuel injection system / sequential multiport fuel injection system, multi-mode manual transmission, SRS airbag system, steering lock system, brake lights, stop and start system
7	10A IG2 – Multiport fuel injection system / sequential multiport fuel injection system
8	7,5A MET – Sensor and counters, Stop & Start system
9	–
10	–
11	25A PWR HTR – Electric heater, multiport fuel injection system / sequential multiport fuel injection system
12	50A EPS – Electric power steering
13	30A ABS NO.2 – ABS, VSC
14	30A DEF – Heated rear window
15	80A PTC – Heater PTC, heaters outside rearview mirrors
16	–
17	40A HTR – Air Conditioning
18	–
19	30A RDI FAN – Electric cooling fan
20	50A ABS NO.1 – ABS, VSC
21	40A BBC – Stop and Start System
22	30A ST – Starting system
23	–
24	25A D / L NO.2 – Power door lock
25	30A D.C.C – Fuses “DOME”, “ECU-B NO.1”

26	20A STR LOCK – Steering lock system
27	5A ECU-B NO.1 – Main body ECU, intelligent entry and start system
28	15A DOME – Interior lighting, audio system, VSC
29	10A ETCS – Multiport fuel injection system / sequential multiport fuel injection system
30	10A HAZ – Direction indicators
31	7.5A AM2 – Multiport fuel injection system / sequential multiport fuel injection system, intelligent entry and start system, starting system, multi-mode manual transmission
32	5A ECU-B NO.2 – Sensor & Meters, Power Door Lock, Wireless Remote Control, Stop & Start System, Smart Entry and Start System, Multi-Mode Manual Transmission, Air Conditioning System
33	–
34	50A R / I – Fuses “EFI MAIN”, “ECD MAIN”, “EFI NO.2”, “EFI NO.3”, “IG2”, “IGN”, “MET”, “HORN”
R1	Cooling fan (FAN)
R2	Cooling fan (FAN)
R3	Heated rear window (DEF)
R4	Start system (ST) with stop and start system; 1NZ-FE: Starting system (ST2)

Fuse and Relay Box №2

Diagram



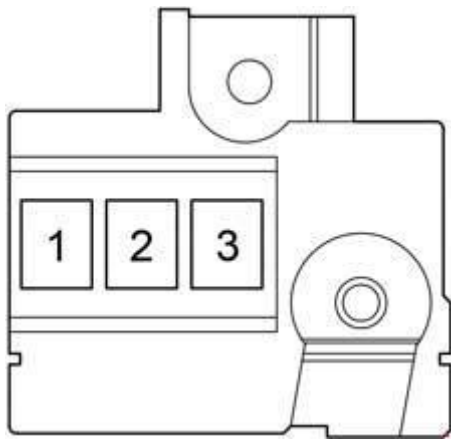
Decoding

1	–
2	15A EU-DRL – Headlights
3	10A S-HORN – Multiport fuel injection system / sequential multiport fuel injection system
4	7,5A H-LP MAIN – Fuses “H-LP RH LO”, “H-LP LH LO”
5	50A MMT – Multi-mode Manual Transmission
	40A ST – with stop and start system; 1NZ-FE: Starting system

6	10A H-LP RH HI – Right headlight (high beam)
7	10A H-LP LH HI – Left headlight (high beam), sensor and instruments
8	10A H-LP RH LO – Halogen: Right headlight (low beam)
	15A H-LP RH LO – HID: right headlight (low beam)
9	10A H-LP LH LO – Halogen: Left headlight (low beam), manual headlight range control
	15A H-LP LH LO – HID: left headlamp (low beam), manual headlight range control
10	–
11	–
12	–
13	–
14	–
R1	Dimmer (DIM)
R2	Daytime running lights / Anti-theft device (EU-DRL / S-HORN)
R3	Headlights / Daytime Running Lights (H-LP / US-DRL)
R4	Integration relay
R5	1NR-FE, 1ND-TV: Daytime running lights (DRL)
	with stop and start system 1NZ-FE: Starter ((ST) up to May 2014)
R6	1NR-FE, 1ND-TV: (O / P MTR)
R7	Multi-mode manual transmission (MMT)

Fusible Link Block

Located on the positive terminal of the battery.



Circuits protected

1. 80A GLOW DC / DC – Multiport fuel injection system / sequential multiport fuel injection system / Engine glow system
2. 80A MAIN – “BBC”, “S-HORN”, “ST”, “D/L NO.2”, “D.C.C.”, “STR LOCK”, “ETCS”, “HAZ”, “AM2”, “ECU-B NO.2”, “R/I”, “H-LP MAIN”, “H-LP RH HI”, “H-LP LH HI”, “H-LP RH LO”, “H-LP LH LO”, “MMT” fuses
3. ALT 120A – Charging system, “PWR HTR”, “EPS”, “ABS NO.2”, “DEF”, “PTC”, “HTR”, “RDI FAN”, “ABS NO.1”, “TAIL NO.2”, “PANEL”, “DOOR R/R”, “DOOR P”, “ECU-IG NO.1”, “ECU-IG NO.2”, “A/C”, “GAUGE”, “WASHER”, “WIPER”, “WIPER RR”, “P/W”, “DOOR R/L”, “DOOR”, “CIG”, “ACC”, “D/L”, “OBD”, “FOG RR”, “STOP”, “AM1”, “FOG FR”, “D-D/L”, “SHADE”, “S-HTR” fuses