

## Fuses and relays Toyota Alphard (H10; 2002-2009)

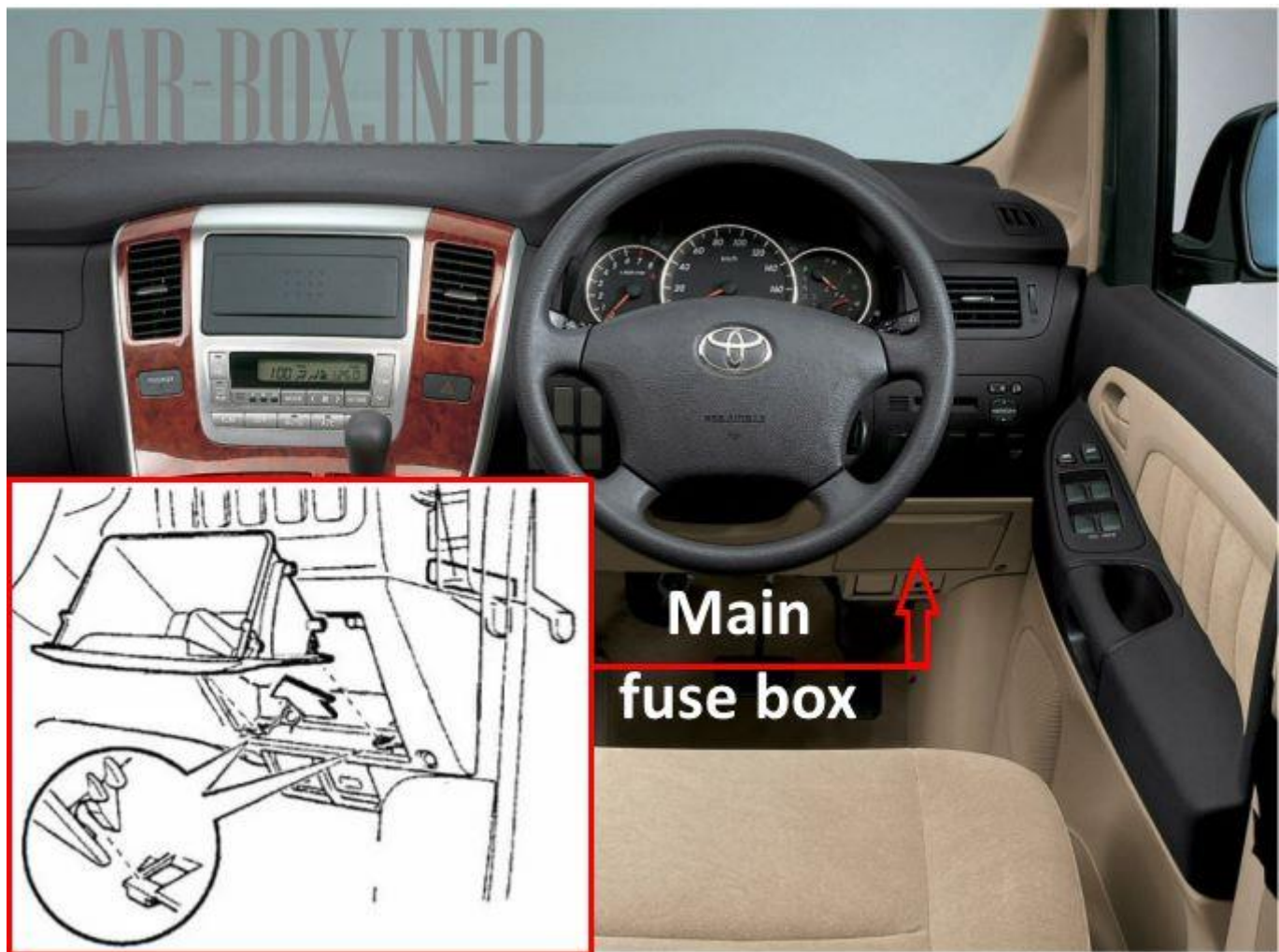
The Toyota Alphard is a high-end minivan with three rows of seats. It entered the Japanese car market around the same time as the second generation of the Nissan Elgrand and gained widespread interest. The model uses front-wheel drive and a base from the second generation Previa / Estima, there are also four-wheel drive versions. In this material, we will analyze in detail the fuse circuits for Toyota Alphard 1st generation (**H10**) 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009 release.



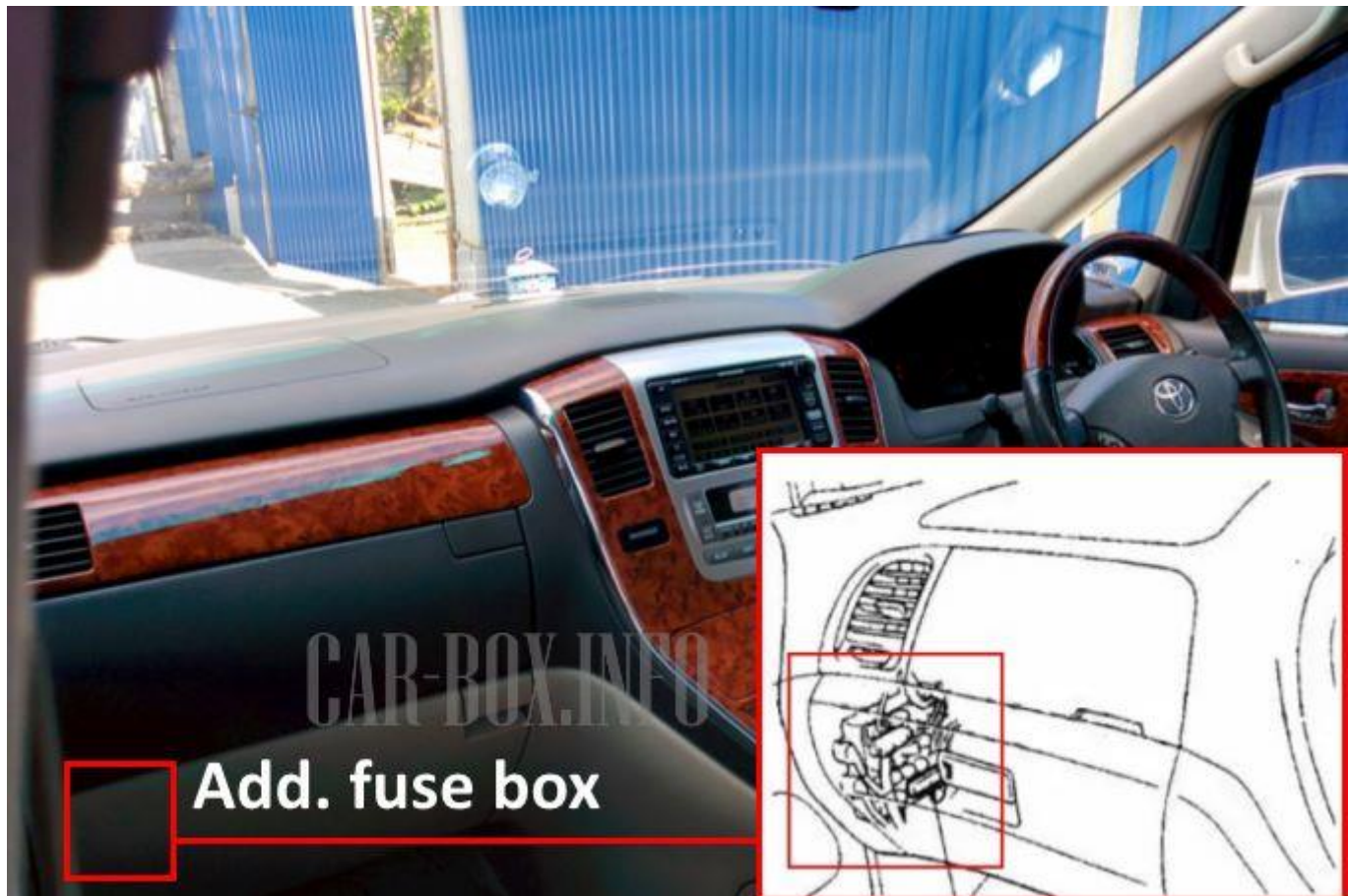
Here you will find the locations and photos of the fuse blocks. Separately, we note the elements responsible for the cigarette lighter and fuel pump.

### **In the passenger compartment**

There are two blocks here:



1 - **main** from the driver's side behind the glove box;



2 - **additional** from the passenger side behind the glove compartment.

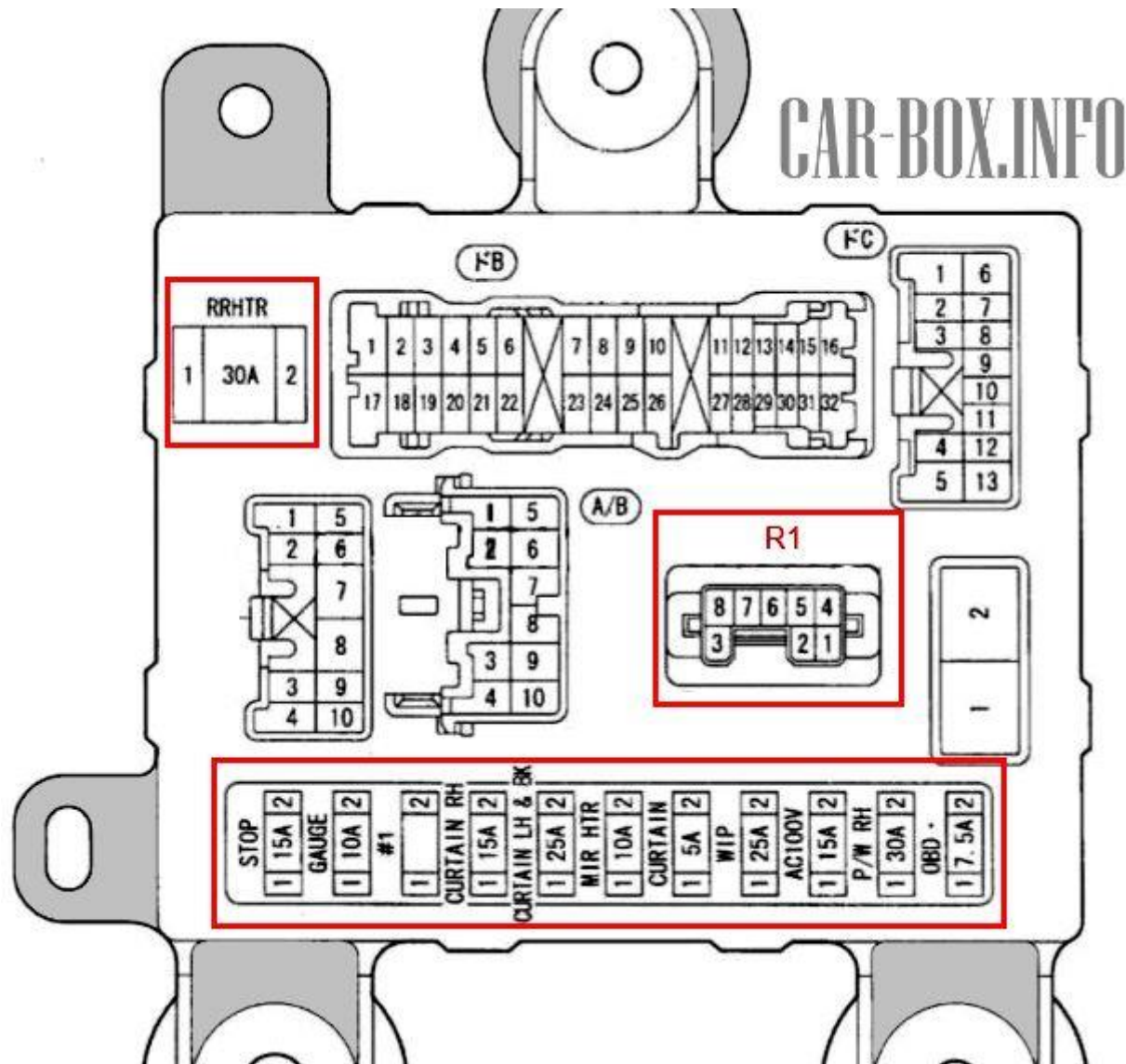
**Main fuse box**

CAR-BOX.INFO



An example of access to the main block.

Diagram



No.

Description

AC

External consumers

STOP

Engine management system, e  
automatic transmission and im

Anti-lock braking system ABS

TEMS system

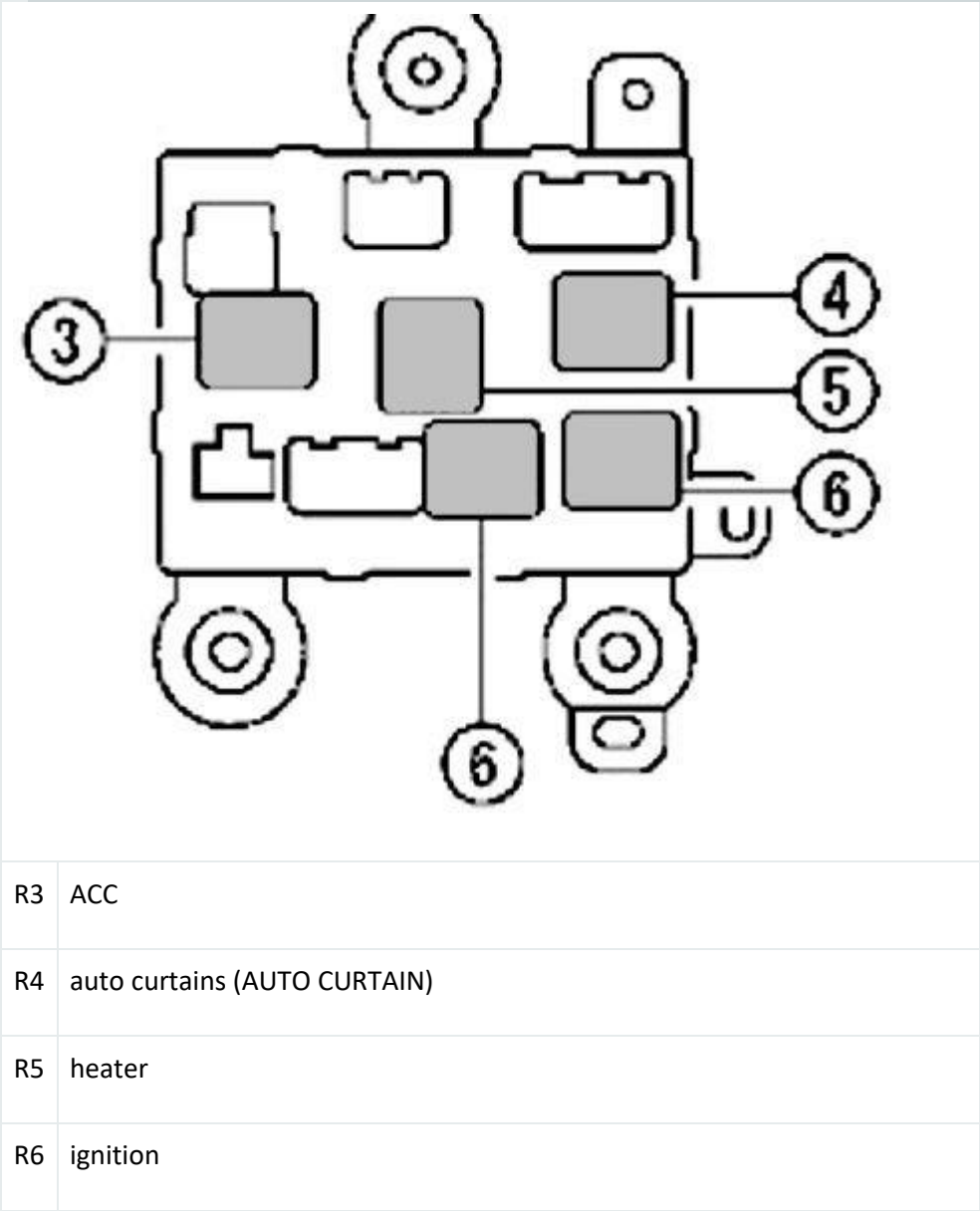
Switch lock

Sliding door electric drive

| Diagram |                                                   |
|---------|---------------------------------------------------|
|         | Stop lamps                                        |
|         | Speed Keeping System                              |
| RR HTR  | Automatic air conditioner (dua                    |
| GAUGE   | Charging system                                   |
|         | Engine management system, a<br>immobilizer system |
|         | Anti-lock braking system                          |
|         | TEMS system                                       |
|         | Switching indication                              |
|         | Sliding door electric drive                       |
|         | central locking                                   |
|         | Power windows                                     |
|         | Multiplex system                                  |
|         | Electric sunroof                                  |
|         | Audio system                                      |
|         | Rear LCD                                          |
|         | Multivision                                       |
|         | Seat belt warning system                          |
|         | Reversing lamps                                   |
|         | Turn signal and hazard warning                    |
|         | Interior lamps                                    |

| Diagram                                      |                                                                                       |
|----------------------------------------------|---------------------------------------------------------------------------------------|
|                                              | External consumers                                                                    |
|                                              | Heated rear window and heated side mirrors                                            |
|                                              | Speed Keeping System                                                                  |
|                                              | Parktronic                                                                            |
| OBD 2                                        | Engine management system, electronic throttle, automatic transmission and immobilizer |
|                                              | Anti-lock braking system ABS                                                          |
|                                              | TEMS system                                                                           |
|                                              | Airbags and seat belt pretensioners                                                   |
|                                              | Speed Keeping System                                                                  |
| WIP                                          | Audio system                                                                          |
|                                              | Rear LCD                                                                              |
|                                              | Multivision                                                                           |
|                                              | Windshield and rear window wipers                                                     |
|                                              | Automatic air conditioner (dual zone)                                                 |
|                                              | Speed Keeping System                                                                  |
| MIR HTR                                      | Engine management system, electronic throttle, automatic transmission and immobilizer |
|                                              | Heated rear window and side mirrors                                                   |
| R1                                           | Turn signal relay                                                                     |
| <u>Relay modules on the back of the unit</u> |                                                                                       |

Diagram

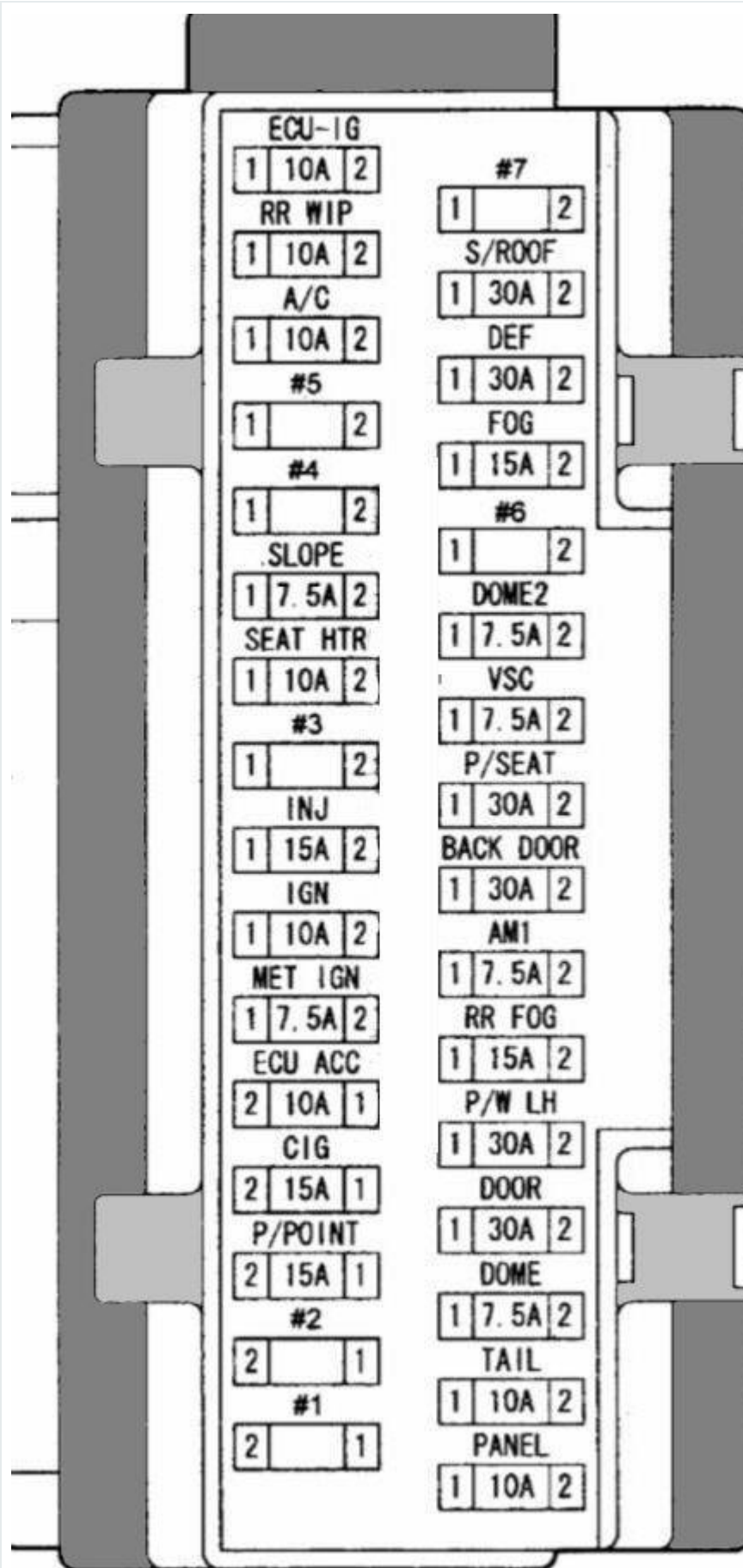


Additional fuse box



To access additional block: dismantle the lining under the glove compartment (1), remove the glove compartment (2) and gain access (3).

**Diagram**



| Diagram   |                                                                                                      |     |
|-----------|------------------------------------------------------------------------------------------------------|-----|
| No.       | Decoding                                                                                             | A   |
| A / C     | Fan electric drive                                                                                   | 10  |
|           | Audio system (Multivision system) and rear LCD                                                       |     |
|           | Automatic air conditioner (dual zone)                                                                |     |
|           | Heated rear window and heated mirrors                                                                |     |
|           | Parking system                                                                                       |     |
| TAIL      | Engine management system, electronic control system of automatic transmission and immobilizer system | 10  |
|           | Fog lights                                                                                           |     |
|           | Parking lamps                                                                                        |     |
|           | Interior lamps                                                                                       |     |
|           | Speed Keeping System                                                                                 |     |
|           | Parking system                                                                                       |     |
| VSC       | TEMS system                                                                                          | 7.5 |
|           | Anti-lock braking system (VSC models)                                                                |     |
|           | Multivision / Rear LCD / Audio system                                                                |     |
|           | Speed Keeping System                                                                                 |     |
| RR WIP    | Rear window wiper and washer                                                                         | 10  |
| P / POINT | Connector for additional equipment (12 V socket)                                                     | 15  |
| P / SEAT  | Electric seat                                                                                        | 30  |
| P / W LH  | Power windows                                                                                        | 30  |

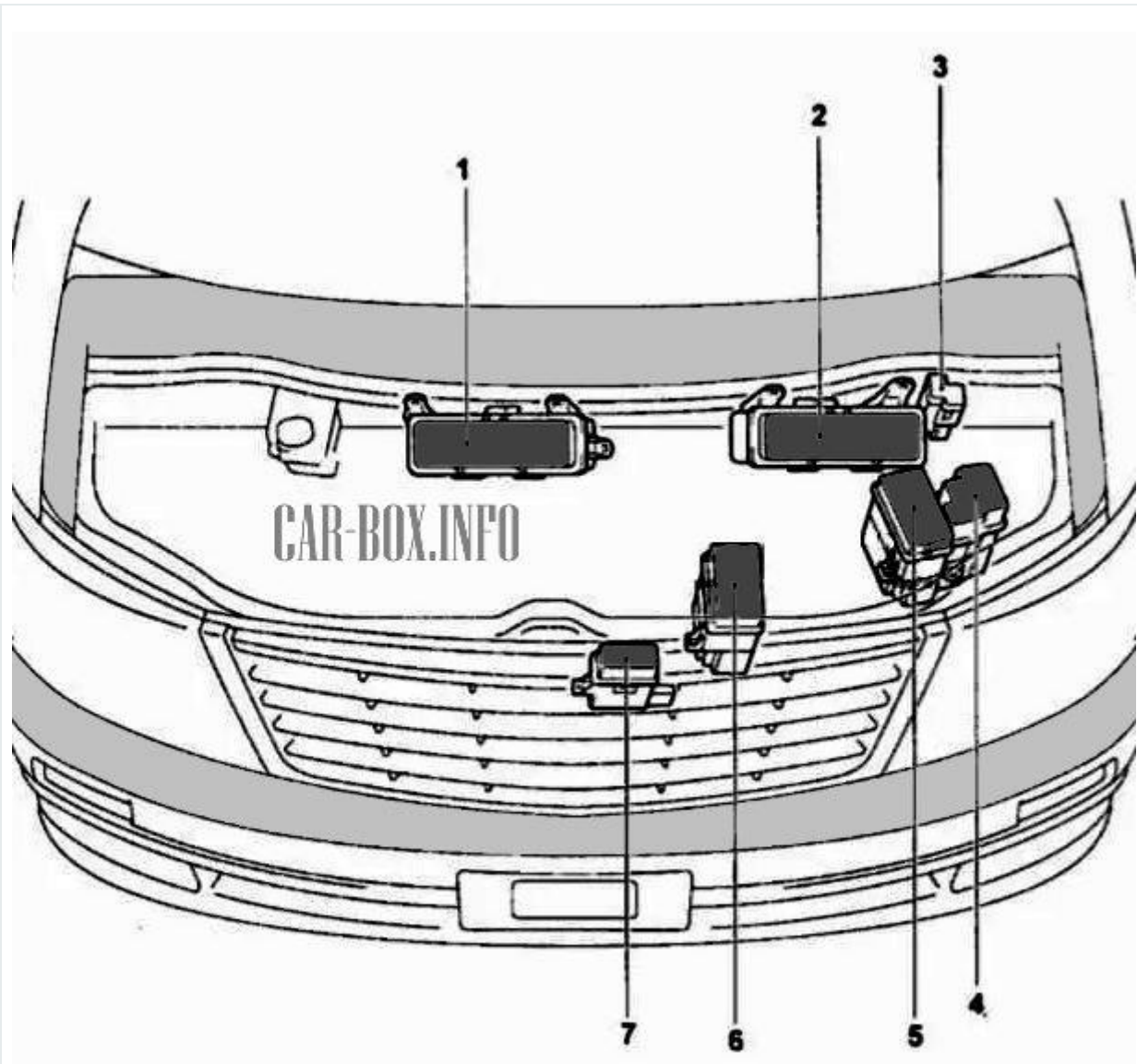
| Diagram |                                                                                                                                                |     |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| IGN     | Engine management system, electronic control system of automatic transmission and immobilizer system                                           | 10  |
|         | Airbags and seat belt pretensioners                                                                                                            |     |
| INJ     | Engine management system, automatic transmission and immobilizer                                                                               | 15  |
| MET IGN | Charging system                                                                                                                                | 7.5 |
|         | Engine management system, automatic transmission and immobilizer                                                                               |     |
|         | Anti-lock braking system ABS                                                                                                                   |     |
|         | Switching indication                                                                                                                           |     |
|         | Airbags and seat belt pretensioners                                                                                                            |     |
|         | The warning system about the left in the ignition switch and the switched off lighting                                                         |     |
|         | Multivision / Rear LCD / Audio / Instrument Cluster                                                                                            |     |
|         | Seat belt warning system                                                                                                                       |     |
|         | Headlamps (models with xenon headlights)                                                                                                       |     |
|         | Reversing lamps                                                                                                                                |     |
|         | Speed Keeping System                                                                                                                           |     |
| FOG     | Fog lamps                                                                                                                                      | 15  |
| DEF     | Engine management system, electronic control system of automatic transmission and immobilizer system • - Heated rear window and heated mirrors | 30  |
| DOME    | central locking                                                                                                                                | 7.5 |
|         | Power windows                                                                                                                                  |     |
|         | Multiplex system                                                                                                                               |     |
|         | Interior lamps                                                                                                                                 |     |

| Diagram   |                                                                                        |     |
|-----------|----------------------------------------------------------------------------------------|-----|
|           | Connector for additional equipment                                                     | 30  |
|           | Power seat for disabled people                                                         |     |
| DOOR      | Central locking and Multiplex system                                                   | 30  |
| ECU-ACC   | Switch lock                                                                            | 10  |
|           | Power mirrors                                                                          |     |
|           | Multiplex and Multivision system, rear LCD display, audio system                       |     |
|           | Interior lamps                                                                         |     |
| BACK DOOR | Rear door electric drive                                                               | 30  |
|           | Rear door closing aid                                                                  |     |
| CIG       | <b><i>Toyota alfard cigarette lighter fuse</i></b>                                     | 15  |
| AM1       | Launch system                                                                          | 7.5 |
| RR DOOR   | Sliding door electric drive                                                            | 30  |
|           | Sliding door closing aid                                                               |     |
|           | Power seat for disabled people                                                         |     |
| RR FOG    | Fog lights                                                                             | 10  |
| PANEL     | Instrument cluster                                                                     | 10  |
|           | The warning system about the left in the ignition switch and the switched off lighting |     |
|           | Audio system / Multivision                                                             |     |
|           | Rear LCD                                                                               |     |
|           | Fog lamps                                                                              |     |
| S / ROOF  | Electric sunroof                                                                       | 30  |

| Diagram  |                             |    |
|----------|-----------------------------|----|
| SEAT HTR | Seat heater                 | 10 |
| ECU-IG   | TEMS system                 | 10 |
|          | Anti-lock braking system    |    |
|          | Switch lock                 |    |
|          | Sliding door electric drive |    |
|          | Rear door electric drive    |    |
|          | central locking             |    |
|          | Multiplex system            |    |
|          | Electric sunroof            |    |
|          | Audio system                |    |
|          | Rear LCD                    |    |
|          | Multivision system          |    |
|          | Seat belt warning system    |    |
|          | Headlamps                   |    |
|          | Fog lights                  |    |
|          | Tail lamps                  |    |
|          | Interior lamps              |    |
|          | Parking system              |    |

#### In the engine compartment

Layout of the electronic components under the hood.



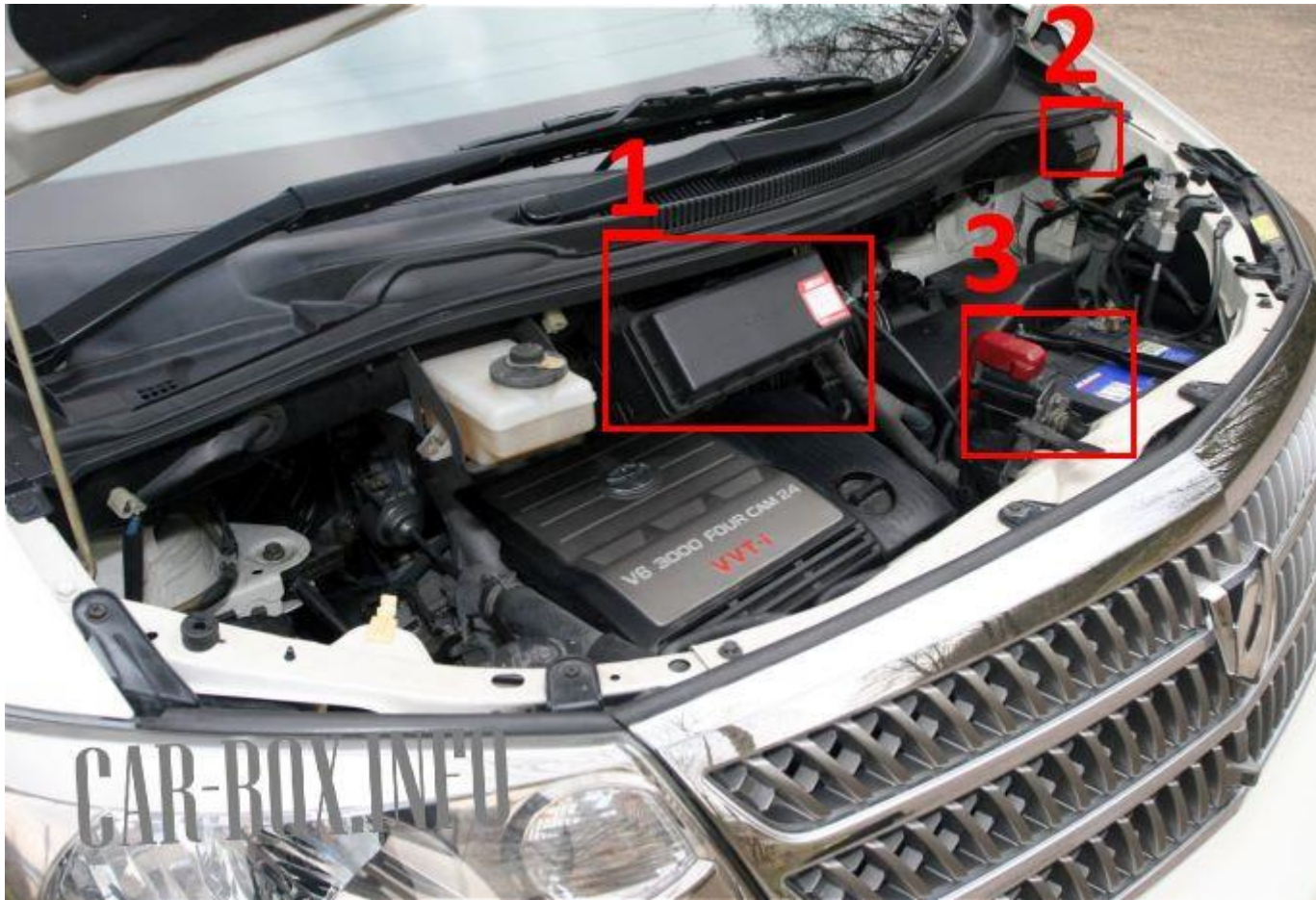
1 1MZ-FE engine: main fuse block

2 2AZ-FE engine: main fuse block

3 additional fuse block

4 2AZ-FE engine: relay and fuse box for additional heater

5 battery fuse links board



There are three blocks here: the **main one** (1) in the center closer to the windshield, the **additional one** (2) next to the pillar and the **fuses** (3) on the battery.

#### Main fuse box



Photo - an example of the execution of the main unit.

[illegible]

| No.                | Description                                    |
|--------------------|------------------------------------------------|
| BLC                | Air conditioning                               |
| CDS FAN            | Electric fan (models with 2AZ-FE engine)       |
| RAD # 1            | Audio / Rear LCD / Multivision                 |
| RAD # 3            | Audio system (Multivision system) and rear LCD |
| VSC                | Anti-lock braking system ABS (models with VSC) |
| P / W RH           | Power windows                                  |
| CURTAIN            | Electric shutters                              |
| CURTAIN<br>LH & VK |                                                |
| CURTAIN<br>RH      |                                                |

| Diagram   |                                                                                                      |
|-----------|------------------------------------------------------------------------------------------------------|
| EFI       | Engine management system, automatic transmission and immobilizer                                     |
| FR HTR    | Air conditioning                                                                                     |
| HAZ-HORN  | Sound signal                                                                                         |
|           | Turn signal and hazard warning lamps (flasher)                                                       |
| H-LP (LH) | Headlamps (left, high beam)                                                                          |
| H-LP (LL) | Headlamps (left, low beam)                                                                           |
| H-LP (RH) | Headlamps (models with xenon headlights) (right, high beam)                                          |
| H-LP (RL) | Headlamps (models with xenon headlights) (right, low beam)                                           |
| PTC1      | Air conditioning                                                                                     |
| PTC2      |                                                                                                      |
| PTC3      |                                                                                                      |
| ECU-B     | Engine management system, electronic control system of automatic transmission and immobilizer system |
|           | Anti-lock braking system ABS                                                                         |
|           | TEMS system                                                                                          |
|           | Switching indication                                                                                 |
|           | Electric sliding door and rear door                                                                  |
|           | Rear door closing aid                                                                                |
|           | central locking                                                                                      |
|           | Power windows                                                                                        |
|           | The warning system about the left in the ignition switch and the switched off lighting               |

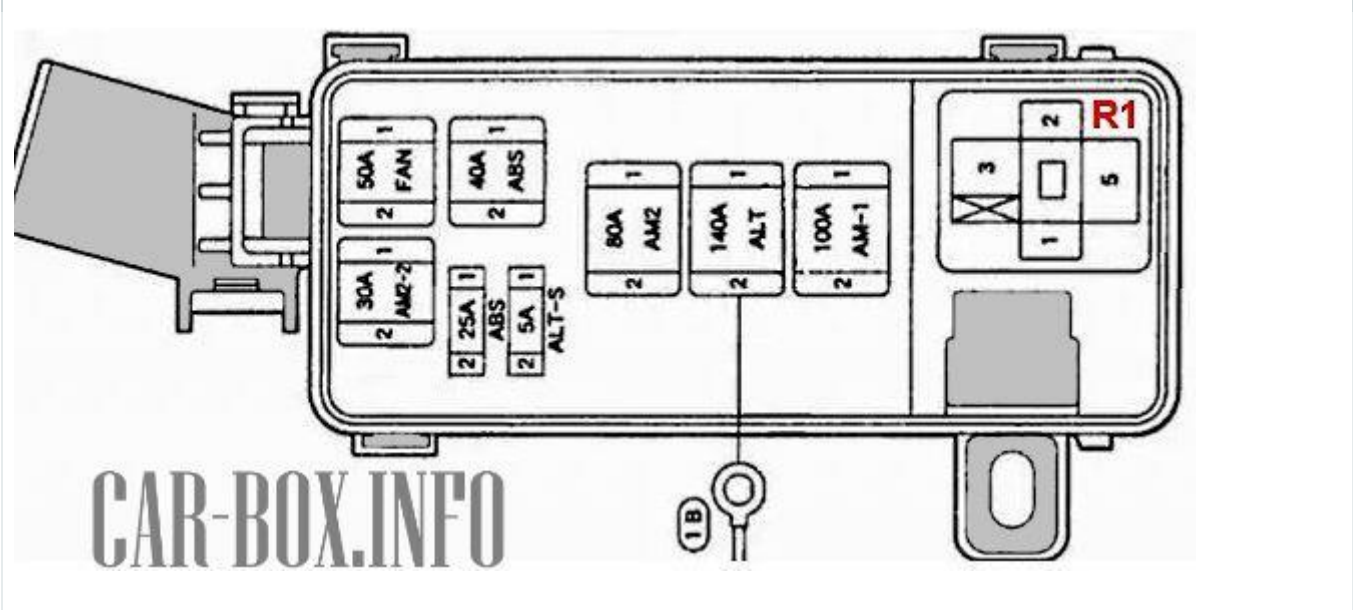
## Diagram

|                      |                                                         |
|----------------------|---------------------------------------------------------|
|                      | Multiplex system                                        |
|                      | Electric sunroof                                        |
|                      | Instrument cluster                                      |
|                      | Audio / Rear LCD / Multivision                          |
|                      | Reversing lamps                                         |
|                      | Interior lamps                                          |
|                      | Air conditioning                                        |
|                      | Speed Keeping System                                    |
| <u>Relay modules</u> |                                                         |
| R1                   | Headlamps                                               |
| R2                   | Rear heater                                             |
| R3                   | Air conditioning                                        |
| R4                   | Horn relay                                              |
| R5                   | <b><i>Injection system (Alfard fuel pump relay)</i></b> |

## Power fuse box

Located on the battery

Diagram

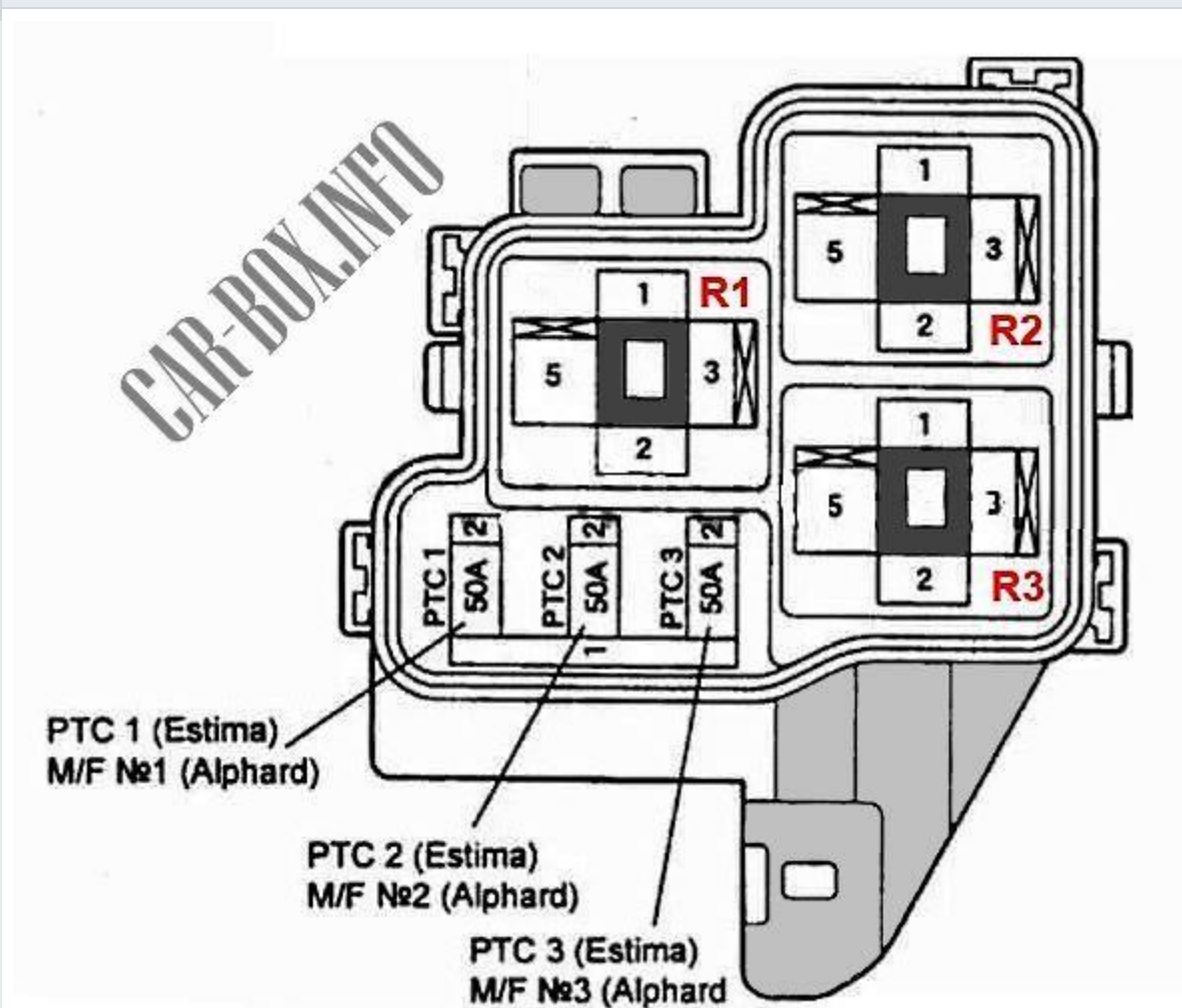


| No.   | Decoding                                      | A   |
|-------|-----------------------------------------------|-----|
| ABS   | Anti-lock braking system (models without VSC) | 25  |
|       | Anti-lock braking system                      | 40  |
| ALT   | Starting and charging system                  | 140 |
|       | Positioning lamps and lighting                |     |
| ALT-S | Charging system                               | 5   |
| AM1   | External consumers                            | 10  |
| AM2   | Headlamps                                     | 80  |
| AM2-2 | Launch system                                 | 30  |
| FAN   | Radiator Fan                                  | 50  |
| R1    | Radiator Fan                                  |     |

Additional block (2)

Located next to the pillar.

Diagram



R1  
R2  
R3

auxiliary heater