

Toyota Wish – fuse and relay

The 1st generation five-door “minivan” **Toyota Wish** was produced in 2003, 2004, 2005, 2006, 2007, 2008 and 2009 and was designated as E10. Further, in 2010, 2011, 2012, 2014, 2015, 2016, 2017. Toyota Wish of the 2nd generation was in production. In this material, we will show the general arrangement of control units, a detailed description of fuses and relays Toyota Wish with diagrams and photo examples of performance. Note the cigarette lighter fuse.



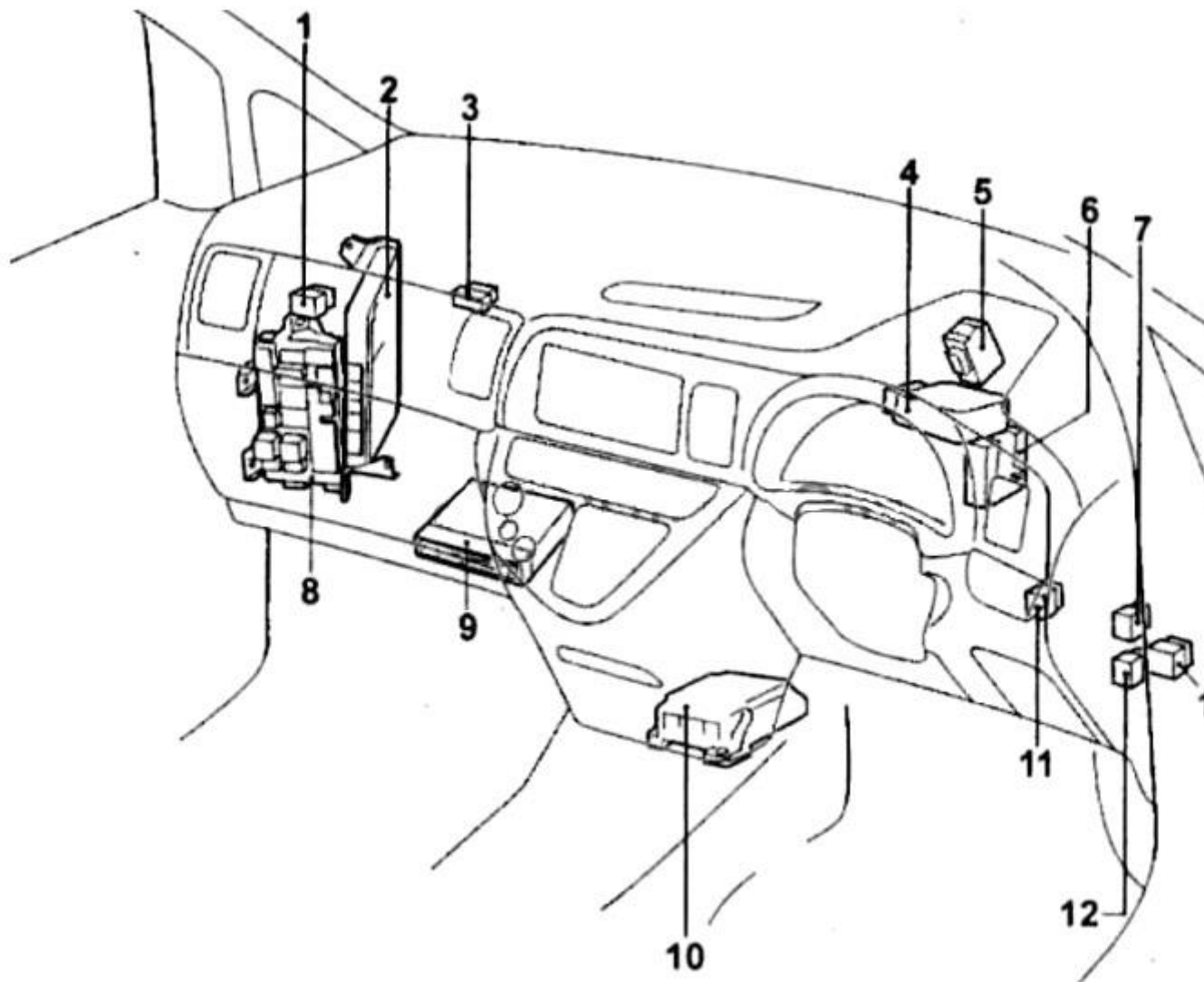
The arrangement of the boxes and the purpose of the elements in them may differ from the one presented and depend on the year of manufacture and the level of equipment.

1st generation

Passenger compartment

Location

General layout of boxes in the cabin



Assignment

1. fuel pump relay
2. electronic engine control unit
3. fuse box
4. electric power steering control unit
5. electronic immobilizer control unit
6. headlight range control unit
7. inverter relay (models from 04.2003)
8. mounting box for fuses and relays under the dashboard
9. ABS electronic control unit
10. electronic control unit SRS
11. fog lamp relay

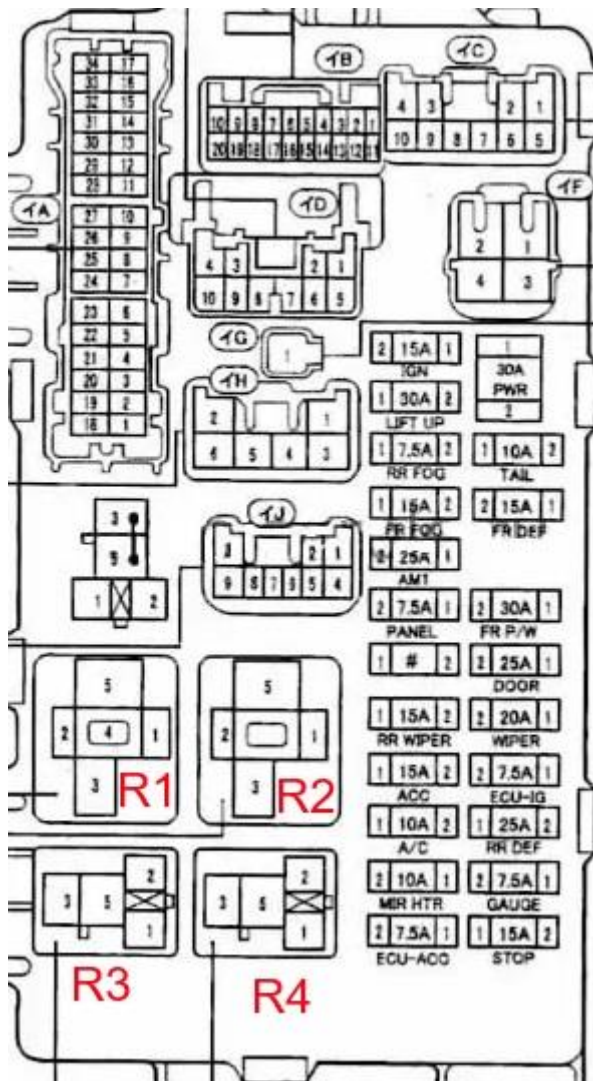
12. brush defroster relay
13. turn signal relay interrupter.

Fuse and relay box

It is located under the dashboard.



Diagram



Designation

ECU-ACC 7.5A

Switch lock

Power mirrors

Warning system about the left in the ignition switch and the lighting not turned off

Audio system (models with built-in amplifier) - Audio system (models with separate amplifier up to 09.2005) – Audio system, navigation system, BLIND CORNER MONITOR system and rear view system (models up to 09.2005)

Engine and CVT management system and shift indicator lights (1AZ-FSE up to 09.2005) – Audio system, navigation system, BLIND CORNER MONITOR system, rear view system and rear TV (models up to 09.2005)

Engine and automatic transmission control system and automatic transmission selector position indicator backlight (1ZZ-FE, 2WD from 09.2005)

Engine and CVT management system and shift indicator lighting (1AZ-FSE from 09.2005) – Audio system, navigation system and rear view system (models from 09.2005)

Audio system, navigation system, BLIND CORNER MONITOR system, rear view system and rear TV (models from 09.2005)

Automatic transmission control system

ECU-IG 7,5A

Charging system – Electric fan drive – Anti-lock braking system (2WD without VSC) – Anti-lock braking system (4WD)

Shift lock -Electric power steering

Audio system, navigation system, BLIND CORNER MONITOR system and rear view system

Headlights (models with xenon headlights)

Connector for additional equipment (socket)

Anti-lock braking system (TRC and VSC models)

Central locking (models with central locking with Smart Key function) – Audio system, navigation system, BLIND CORNER MONITOR system, rear view system and rear TV

GAUGE 7,5A

Automatic transmission control system and automatic transmission selector position indicator backlight (1ZZ-FE, except 2WD from 09.2005)

Power windows

Central locking

The warning system about the left in the ignition switch and the switched off lighting

Seat belt warning system

Electric sunroof

Audio system, navigation system, BLIND CORNER MONITOR system and rear view system

Direction indicators and hazard warning lights

Automatic lighting control system

Reversing lights

De-icer brushes

Engine and CVT control system and shift indicator lights (1AZ-FSE up to 09.2005)

Audio system, navigation system, BLIND CORNER MONITOR system, rear view system and rear TV

Automatic transmission control system and automatic transmission selector position indicator backlight (1ZZ-FE, 2WD from 09.2005)

Automatic transmission control system and automatic transmission selector position indicator backlight (1AZ-FSE from 09.2005)

PANEL 7.5A

Watch

Fog lights

Rear fog lights

Backlight

RR FOG 7.5A

Rear fog lights

A / C 10A

Seat belt not wearing warning system

Watch

Automatic air conditioner

Heated rear window and heated mirrors

MIR HTR 10A

Heated rear window and heated mirrors

TAIL 10A

The warning system about the left in the ignition key and not turned off the lighting

Headlights (1ZZ-FE without xenon headlights)

Fog lights

Rear fog lights

Backlight

Dimensions (edit)

ACC 15A

Fuse for cigarette lighter

Accessory connector (female) Accessory connector (female)

FR DEF 15A

De-icer brushes

FR FOG 15A

Fog lights

IGN 15A

Ignition system

Engine management system (1ZZ-FE, except 2WD from 09.2005)

Automatic transmission control system and automatic transmission selector position indicator
backlight (1ZZ-FE, except 2WD from 09.2005)

SRS system

Immobilizer system

Engine and CVT control system and shift indicator lights (1AZ-FSE)

Engine and automatic transmission control system and automatic transmission selector position indicator backlight (1ZZ-FE, 2WD from 09.2005)

RR WIPER 15A

Rear window wiper and washer

STOP 15A

Engine management system (1ZZ-FE, except 2WD from 09.2005)

Automatic transmission control system and automatic transmission selector position indicator backlight (1ZZ-FE, except 2WD from 09.2005)

Anti-lock braking system (2WD without VSC)

Anti-lock braking system (4WD)

Switch lock

Stop signal

Engine and CVT control system and shift indicator lights (1AZ-FSE)

Anti-lock braking system (TRC and VSC models)

Engine and automatic transmission control system and automatic transmission selector position indicator backlight (1ZZ-FE, 2WD from 09.2005)

WIPER 20A

Windshield wiper and washer

Rear window wiper and washer

DOOR 25A

Interior lamps

RR DEF 25A

Heated rear window and heated mirrors

FRP / W 30A

Power windows

central locking

PWR 30A

Power windows

Electric sunroof

A fuse designated as CIG or ACC 15A is responsible for the cigarette lighter.

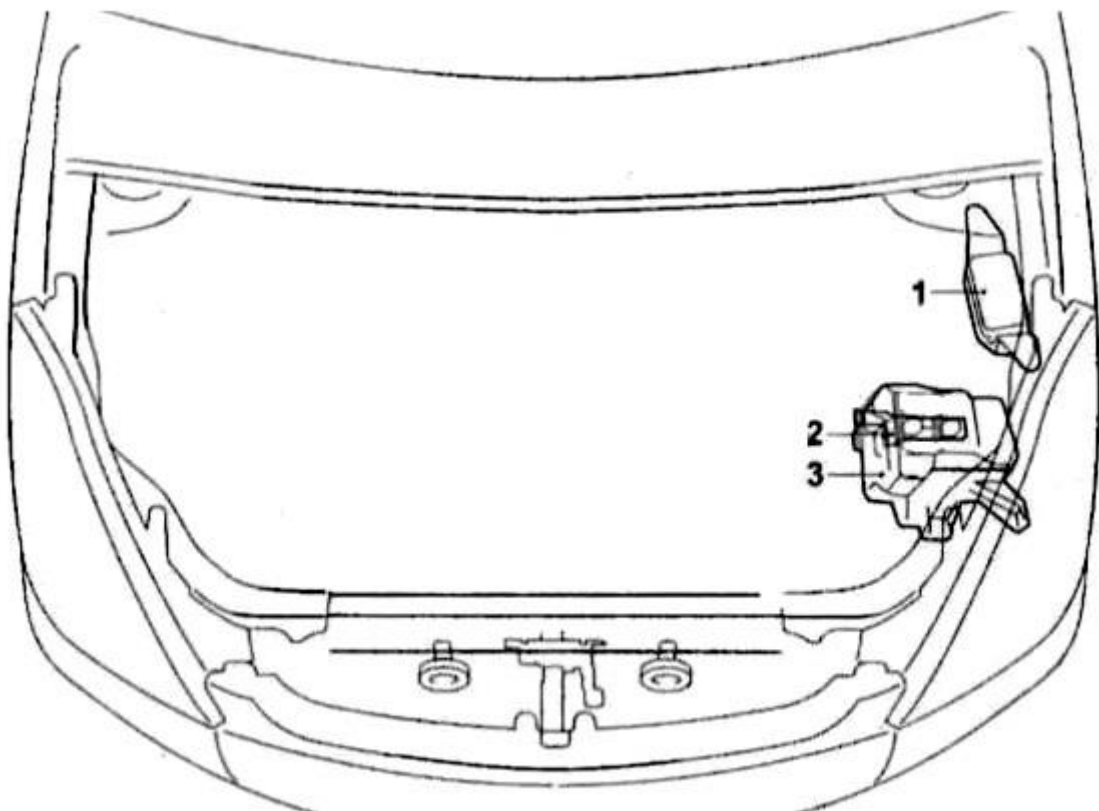
Relay

- R1 – Heater relay
- R2 – IGN Relay
- R3 – Rear window defogger relay
- R4 – Relay dimensions

Engine compartment

Location

General arrangement of boxes under the hood



Appointment

1. engine compartment relay box No. 3
2. fuse and relay box in the engine compartment No. 2
3. engine compartment relay box

Fuse and relay box

Located on the left side, next to the battery.

Photo – scheme

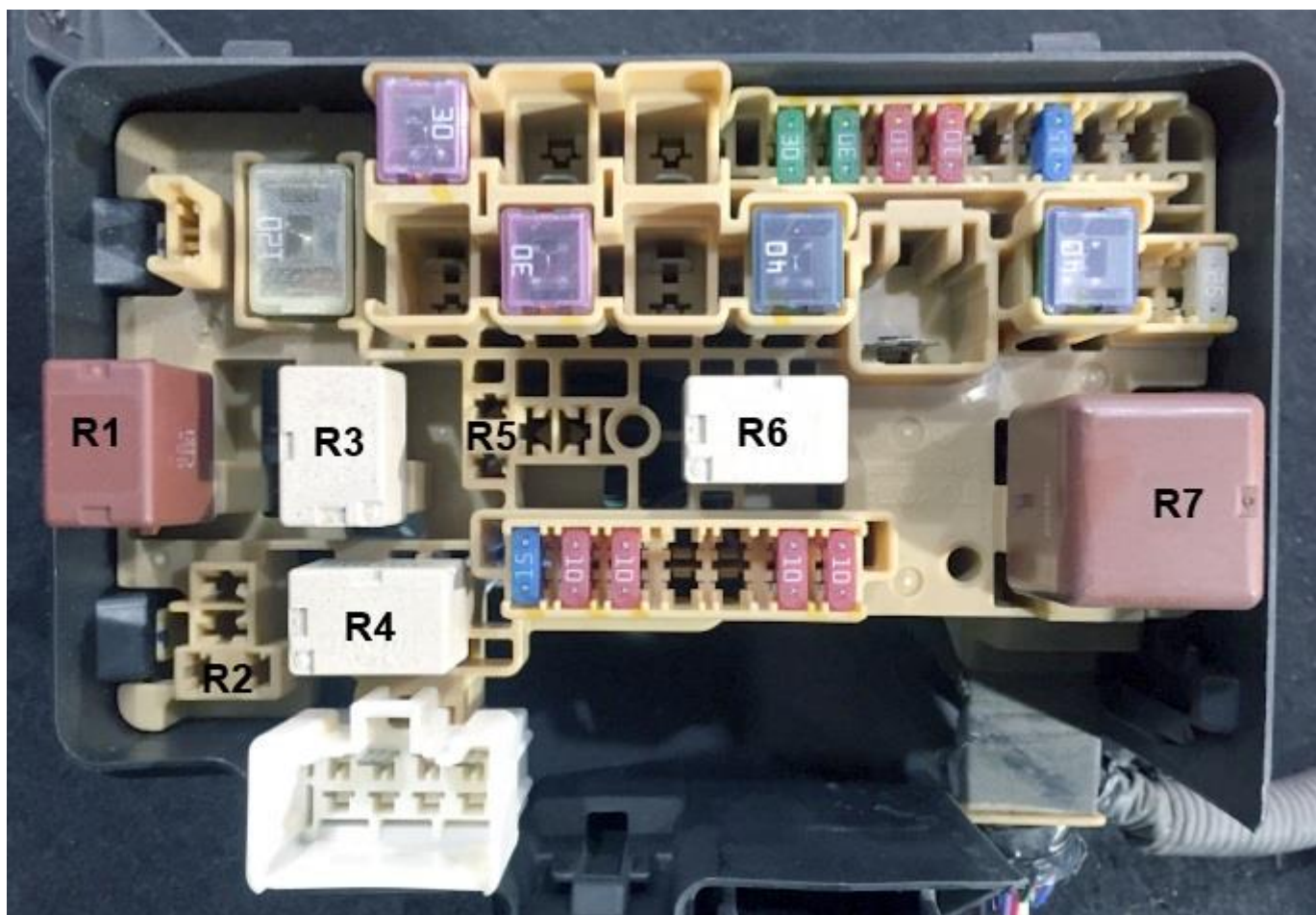


Diagram from the box cover

	electric fan drive (models with 1AZ-FSE engine)
	ABS
	airbags and seat belt pretensioners
	MULTIPLEX system
	central locking
	electric windows
	warning system about the left in the ignition switch and the switched off lighting
	seat belt warning and tension release system
	instrument cluster, audio system (models with navigation system) and rear view system
	headlights
	fog lights
	dimensions
	reversing lights
	interior lighting lamps
	air conditioner
10/15A H-LP LH	headlights (xenon / non-xenon)
10A H-LP LH HI	headlights xenon
10/15A H-LP RH	headlights (xenon / non-xenon)
10A H-LP RH HI	headlights xenon
10A TURN-HAZ	direction indicators and hazard warning lights
10A HORN	sound signal
15/20A EFI	engine management system and automatic transmission (models with 1NZ-FE engine)

	engine management system and automatic transmission (models with 1ZZ-FE engine)
	engine management system and automatic transmission (models with 1AZ-FSE engine)
	electric fan drive (models with 1NZ-FE, 1ZZ-FE motors)
	electric fan drive (models with 1AZ-FSE engine)
	15A – 1AZ-FSE. 20A – models from 12.2004 onwards
15A EFI2	engine management system and automatic transmission (models with 1AZ-FSE engine)
10/15A ETCS	engine management system and automatic transmission (models with 1AZ-FSE engine)
	engine management system and automatic transmission (2WD models with 1ZZ-FE engine)
	10A – models from 12.2004 onwards
15A RADIO №1	Radio cassette
25A ABS №2	ABS
30A AM2	launch system
30A CDS	electric fan drive (models with 1AZ-FSE engine)
40A ABS №1	ABS
40A HTR	air conditioner
30A MAIN	headlights
30A RDI	electric fan drive
120A ALT	charging system
	launch system
	MULTIPLEX system
	dimensions

	backlight
	rear window heater and
	mirror heater
20A DOOR	MULTIPLEX system
	central locking
	models since 12.2004
30A DCC	audio system (models with audio preparation)
	models since 12.2004

- R1 – Fan motor relay 2
- R2 – Relay 3 fan motor
- R3 – Horn relay
- R4 – Relay 1 fan motor
- R5 – Relay 2 injection system
- R6 – Relay 1 injection system
- R7 – Headlight relay

Relay Box No. 2

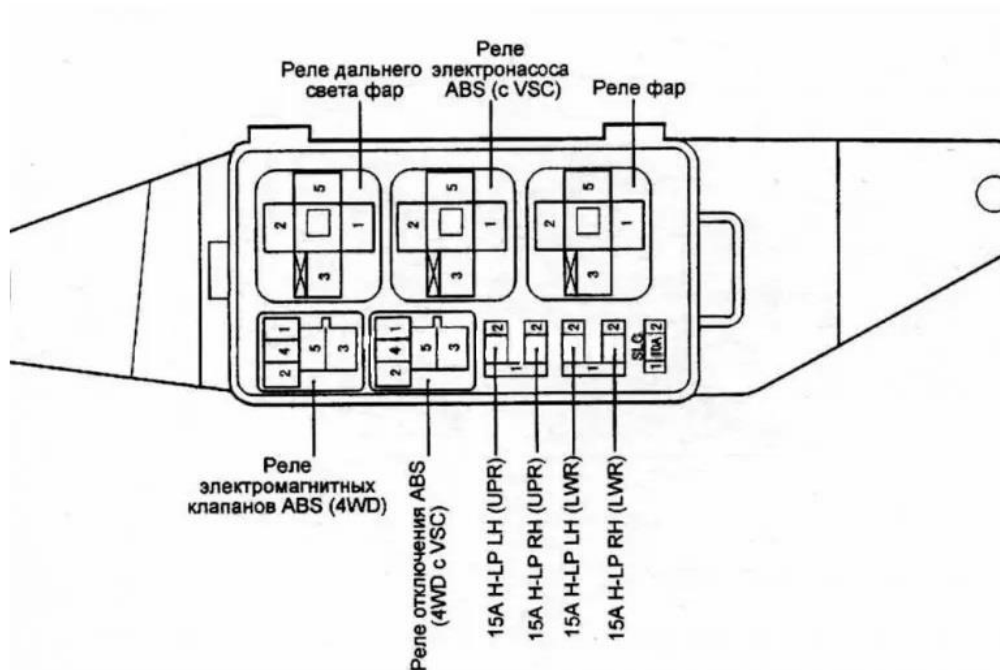
R1 – starter relay

R2 – injector relay

7.5A ST – Starting system

Relay Box No. 3

Diagram



Decoding

- H-LP LH (LWR) 15A (left headlight, low beam)

Headlights (1AZ-FSE up to 09.2005)

Headlights (models with xenon headlights)

- H-LP LH (UPR) 15A (left headlight, high beam)

Headlights (1AZ-FSE up to 09.2005)

Headlights (models with xenon headlights)

- H-LP RH (LWR) 15A (right headlight, low beam)

Headlights (1AZ-FSE up to 09.2005)

Headlights (models with xenon headlights)

- H-LP RH (UPR) 15A (right headlight, high beam)

Headlights (1AZ-FSE up to 09.2005)

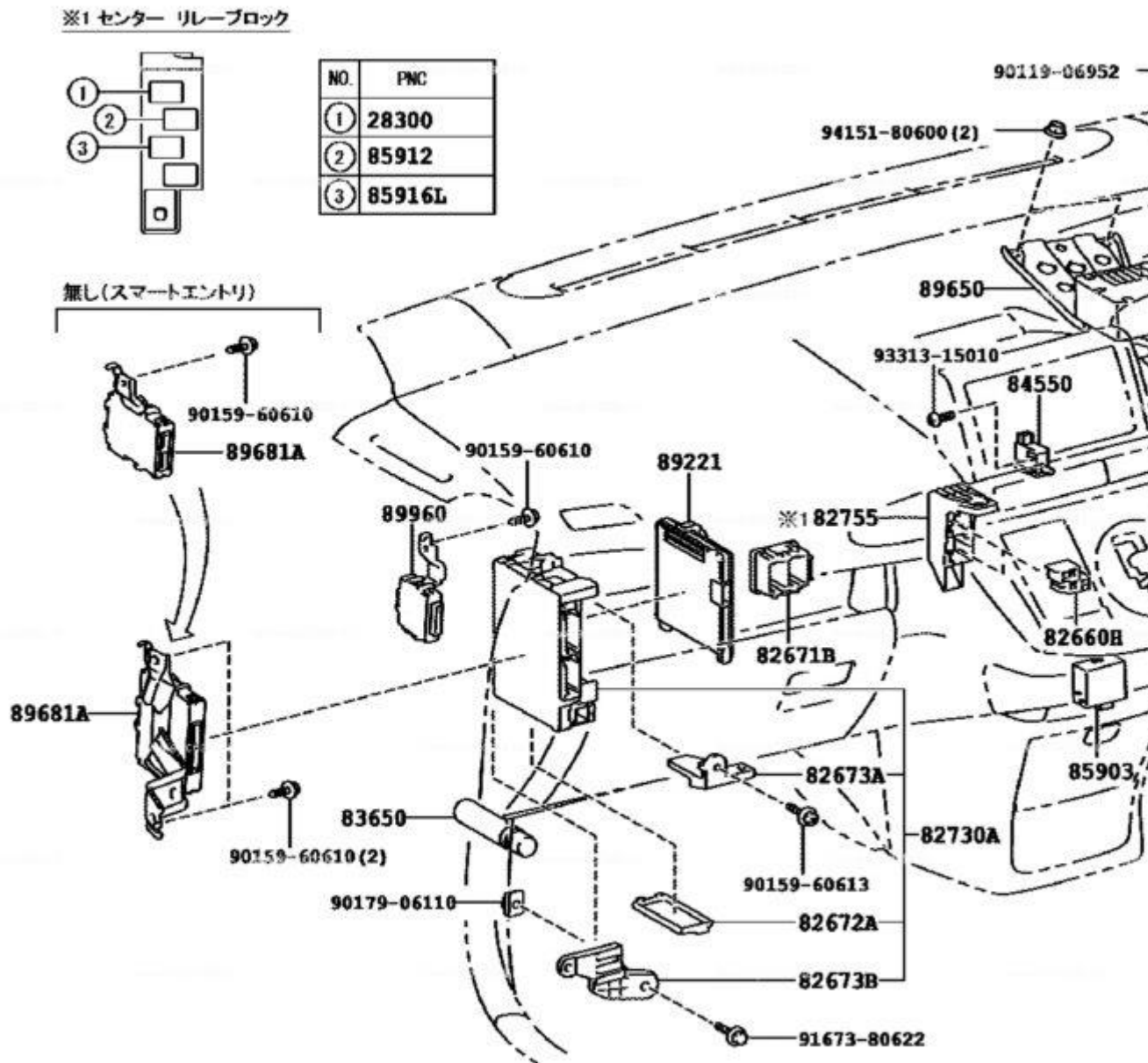
Headlights (models with xenon headlights)

2nd generation

Passenger compartment

Location

General layout of boxes in the cabin



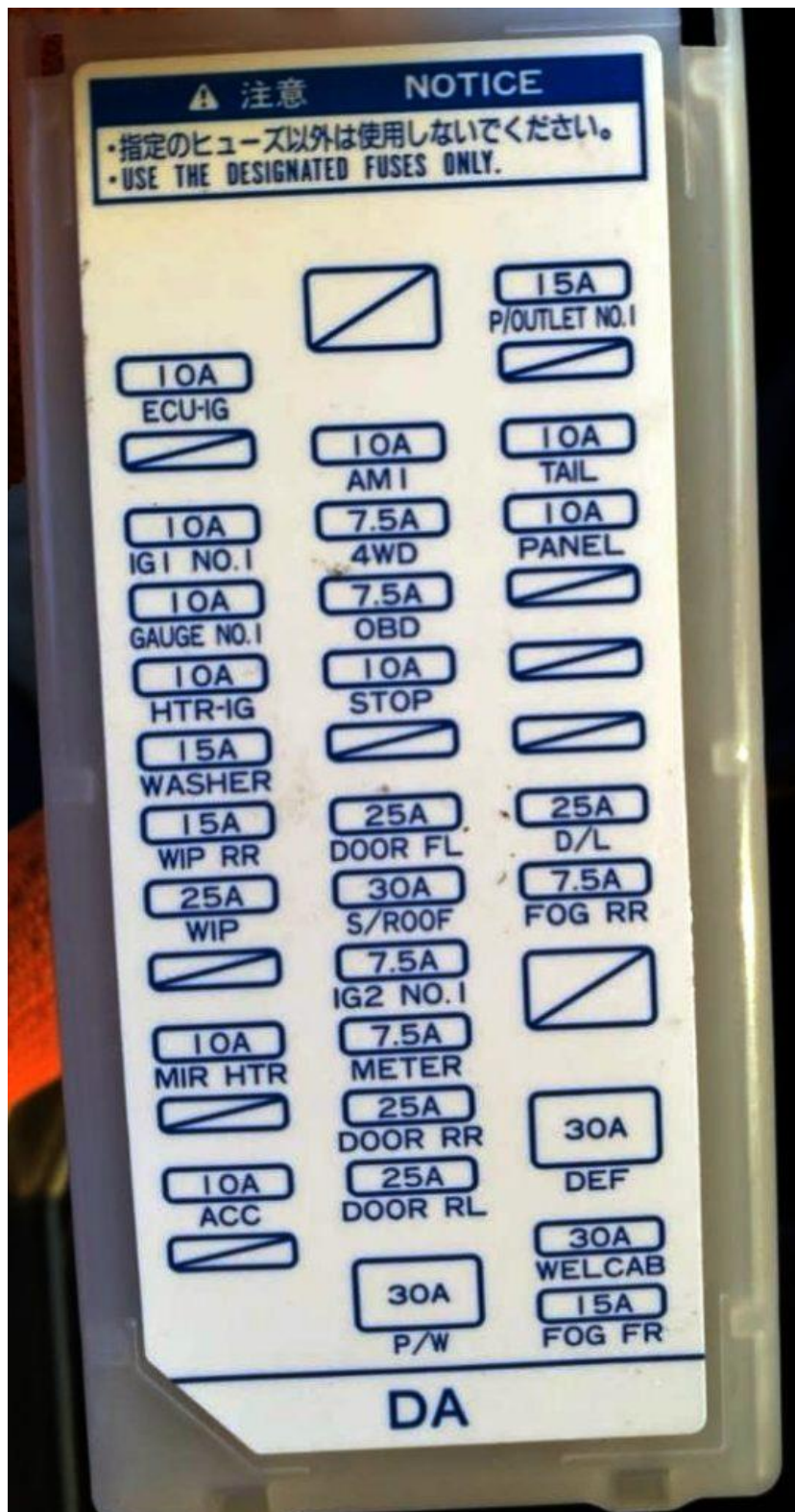
Assignment

28300 RELAY ASSY, STARTER
 81980 FLASHER ASSY, TURN SIGNAL
 82877 BOX, COMPUTER INTEGRATION, RH
 82660H BLOCK ASSY, RELAY
 82671B BLOCK, JUNCTION
 82755 BLOCK, CENTER RELAY
 83650 FUSEE
 84340 SWITCH ASSY, STOP LAMP
 84345 ADJUSTER, STOP LAMP SWITCH MOUNTING
 84550 SWITCH ASSY, PARKING BRAKE
 85903 COMPUTER SUB-ASSY, SHIFT LOCK CONTROL

85912 RELAY, DEFOGGER
85916L RELAY, REAR FOG LAMP
89221 COMPUTER, MULTIPLEX NETWORK BODY
89650 COMPUTER ASSY, POWER STEERING
89681A COMPUTER, POWER MANAGEMENT CONTROL
89960 COMPUTER ASSY, HEADLAMP LEVELING
82730A BLOCK ASSY, DRIVER SIDE JUNCTION
82673A BRACKET, JUNCTION BLOCK
82672A COVER, JUNCTION BLOCK
82673B BRACKET, JUNCTION BLOCK

Fuse box

Diagram from the box cover



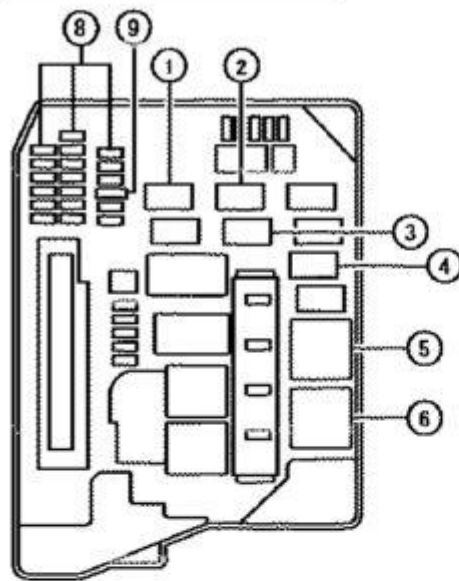
The cigarette lighter fuse is labeled P / Outlet.

Engine compartment

Location

General arrangement of boxes under the hood

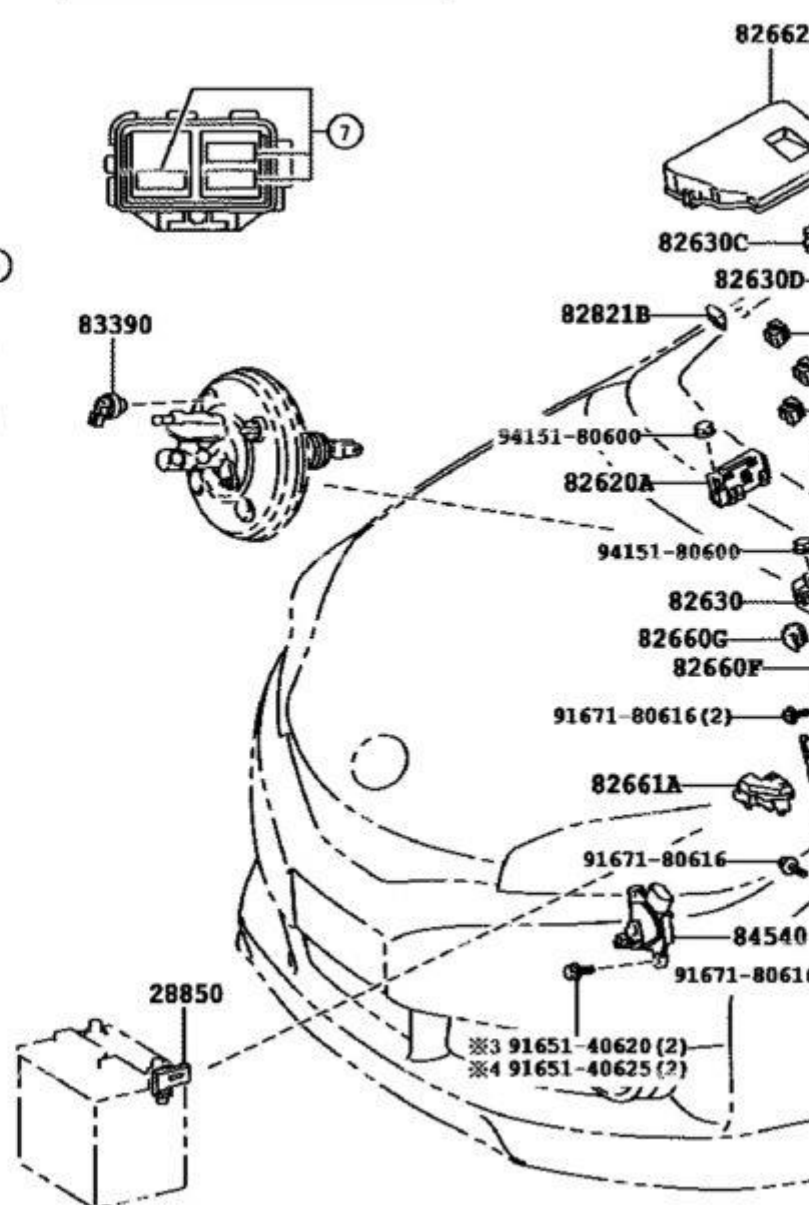
※1 ENGINE ROOM RELAY BLOCK



※3 2ZR-FAE
※4 3ZR-FAE

NO.	PNC
①	85927
②	85927B
③	85927A
④	84794A
⑤	85926
⑥	85916P
⑦	87346K
⑧	82600F
⑨	82824L

※2 ENGINE ROOM RELAY BLOCK NO.2



Designation

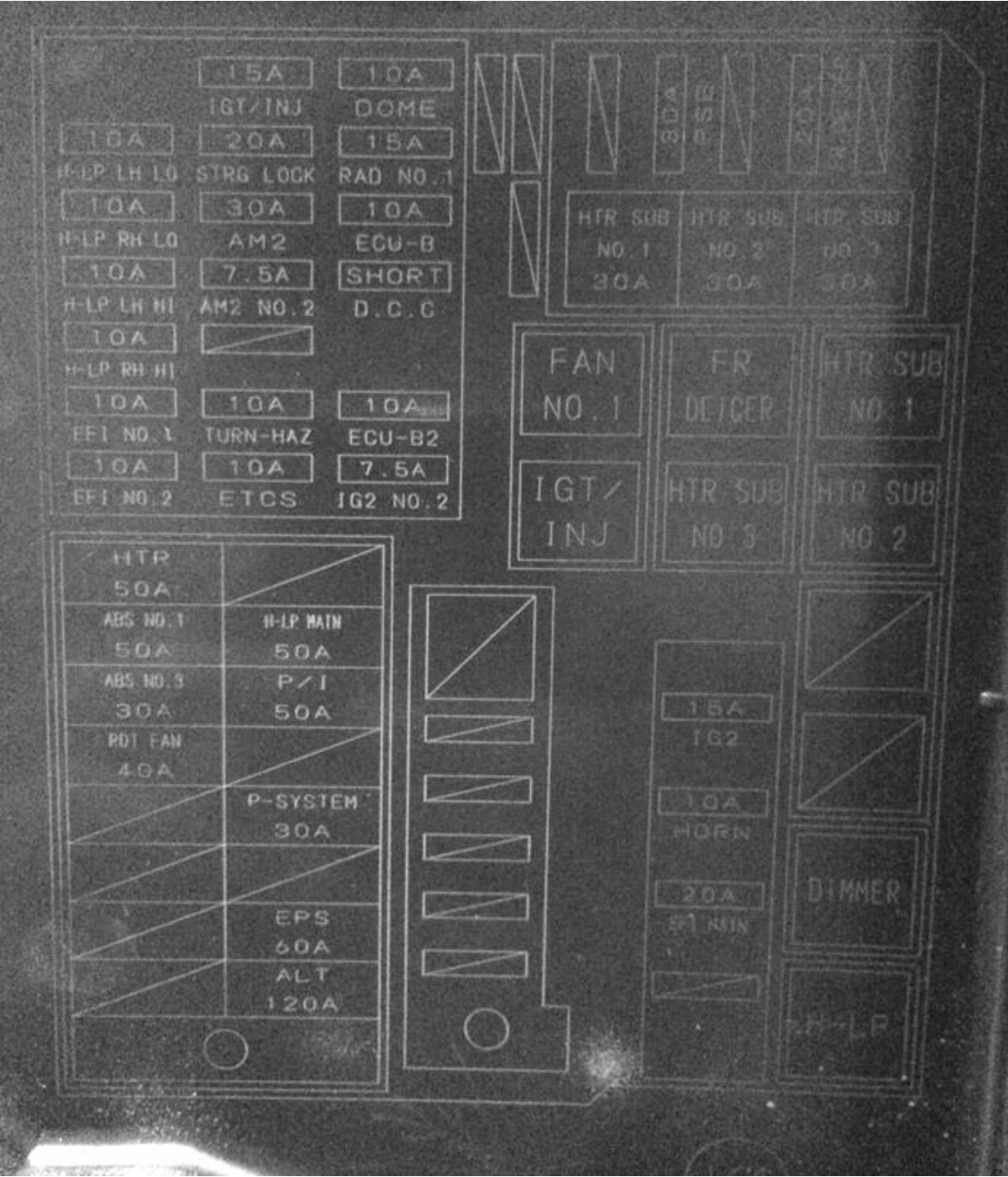
83390 SWITCH ASSY, VACUUM WARNING
28850 SENSOR ASSY, BATTERY CURRENT
84540 SWITCH ASSY, NEUTRAL START
82741 BLOCK, ENGINE ROOM RELAY
82742 BLOCK, ENGINE ROOM RELAY, NO.2
82660C BLOCK ASSY, RELAY
82660D BLOCK ASSY, RELAY
82600F FUSE, FUSE BLOCK
82661 COVER, RELAY BLOCK, NO.1
82663 COVER, RELAY BLOCK, LOWER
82663A COVER, RELAY BLOCK, LOWER, NO.2

82660B BLOCK ASSY, RELAY
82660E BLOCK ASSY, RELAY
82620A BLOCK ASSY, FUSIBLE LINK
82630 HOLDER ASSY, FUSE
82641 RELAY, INTEGRATION NO.1
82660G BLOCK ASSY, RELAY
82660F BLOCK ASSY, RELAY
82661A COVER, RELAY BLOCK, NO.2
82630C HOLDER ASSY, FUSE
82630D HOLDER, FUSE
82821B COVER, CONNECTOR
82662A COVER, RELAY BLOCK, UPPER, NO.1
87346K RELAY, PTC HEATER
85927 RELAY, COOLING FAN
85927A RELAY, COOLING FAN, NO.2
84794A RELAY, FR WIPER DEICER
85916P RELAY, HEADLAMP
85926 RELAY, HEADLAMP DIMMER
85927B RELAY, COOLING FAN, NO.3
82662B COVER, RELAY BLOCK, UPPER, NO.2

Fuse and relay box



Example of a diagram from the box cover



Appointment

7,5A AM2 №2	Starting system (models with Entry & Start system)
	Push button start system
	Switch lock (models with Entry & Start system)
	Steering column lock system
	Central locking, Entry & Start system and anti-theft system

	Power windows
	Seat Belt Warning and Tension Relief System
	The warning system about the left in the ignition switch and the switched off lighting
	Headlights
	Automatic headlight range control
	Fog lights and rear fog lights
	Dimensions and license plate light
	Backlight
	Interior lamps
	Air conditioner
	Multiplex data bus (CAN)
	Parking system (models with a rear view camera)
7,5A IG2 №2	Engine management system 1NZ-FE / 2ZR-FE engine and variator
	and immobilizer system
10A DOME	Interior lamps
10A ECU-B	Charging system
	Engine and CVT control system, immobilizer system and cruise control system
	Anti-lock braking system (ABS) (models without VSC)
	Systems for improving vehicle handling (VSC and ABS)
	Security System (SRS)
	Electric power steering (EPS)
	Central locking, Entry & Start system and anti-theft system
	Power windows

	Seat Belt Warning and Tension Relief System
	The warning system about the left in the ignition switch and the switched off lighting
	Instrument cluster
	Radio, navigation system and parking sensors
	Automatic headlight range control
	Dimensions and license plate light
	Reversing lights
	Interior lamps
	Air conditioner
	Multiplex data bus (CAN)
	Heated rear window and mirror heaters
10A ECU-B2	Push button start system
	Engine and CVT control system, immobilizer system and cruise control system
	Central locking, Entry & Start system and anti-theft system
	Power windows
	Air conditioner
	Heated rear window and mirrors
10A EFI №1	3ZR-FAE engine management system and variator, immobilizer system and cruise control system
10A EFI №2	
10A ETCS	Engine and CVT control system, immobilizer system and cruise control system
10A H-LP LH HI	Headlights

10A H-LP LH LO	Headlights (models without xenon headlights)
10A H-LP RH HI	Instrument cluster
	Headlights
10A H-LP RH LO	Headlights (models without xenon headlights)
10A HORN	Central locking, Entry & Start system and anti-theft system
	Sound signal
10A TURN- HAZ	Direction indicators and hazard warning lights
15A H-LP LH LO	Headlights (models with xenon headlights)
15A H-LP RH LO	
15A IG2	1NZ-FE engine and CVT control system and immobilizer system
	Engine management system 2ZR-FE and CVT and immobilizer system
15A IGT/INJ	3ZR-FAE engine management system and variator, immobilizer system and cruise control system
15A RAD №1	Audio system, navigation system and parking system
20A EFI MAIN	Engine and CVT control system, immobilizer system and cruise control system
20A FR DEICER	De-icer brushes
20A STRG LOCK	Steering lock system
30A ABS №3	Anti-lock braking system (ABS) (models without VSC)
	Systems for improving vehicle handling (VSC and ABS)
30A AM2	Launch system

30A HTR SUB №1	Air conditioner
30A HTR SUB №2	
30A HTR SUB №3	
30A P-SYSTEM	Engine and CVT control system, immobilizer system and cruise control system
40A RDI FAN	Fan electric drive
40A ABS №1	Anti-lock braking system (ABS) (models without VSC)
	Systems for improving vehicle handling (VSC and ABS)
50A H-LP MAIN	Headlights
	Automatic headlight range control
50A HTR	Air conditioner
60A EPS	Electric power steering (EPS)
120A ALT	Charging system
	Start system (models without Entry & Start system)
	Dimensions and license plate light
	Backlight