



**Cigar lighter (power outlet) fuses in the KIA Optima** are located in the Instrument panel fuse box (see fuses “ACC SOCKET” (Power outlet) and “C/LIGHTER” (Cigar lighter)).

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## Fuse box location

### Instrument panel

*The fuse box is located behind the cover to the left of the steering wheel.*

## Engine compartment

**Fuse box diagrams**

## 2001, 2002

### Instrument panel

#### Assignment of the fuses in the Instrument panel (2001, 2002)

<b>DESCRIPTION</b>	<b>AMP RATING</b>	<b>PROTECTED COMPARTIMENTS</b>
RR HTD IND	10A	Rear window defroster. Outside rear view mirror heater
HAZARD	10A	Hazard light, Turn signal lights
RR FOG	15A	Rear fog light
A/CON	10A	Air conditioning system
ETACS	10A	ETACS. Keyless entry system. Door lock system
DR LOCK	15A	Power door lock

<b>DESCRIPTION</b>	<b>AMP RATING</b>	<b>PROTECTED COMPARTIMENTS</b>
P/SEAT	30A	Power seat
T/LID OPEN	15A	Remote trunk lid
STOP LP	15A	Stop lights
H/LP	10A	Head light
A/BAG IND	10A	Air-bag
T/SIG	10A	Turn signal lights
A/CON SW	10A	Air conditioning system
ACC SOCKET	15 A	Power outlet
S/HTR	15 A	Scat heater
A/BAG	15A	Air-bag
B/UP	10A	Backup lights
CLUSTER	10A	Cluster
START	10A	Engine sw itch
SP1	15A	Spare fuse
SP2	15A	Sparc fuse
SP3	15A	Spare fuse
SP4	15A	Spare fuse
D/CLOCK	10A	Digtal clock
TAIL(LH)	10A	Position lights. License plate lights. Tail lights
AUDIO	10A	Audio
WIPER	20 A	Wiper
ROOM LP	10A	Dome lights. Front door edge warning lights

<b>DESCRIPTION</b>	<b>AMP RATING</b>	<b>PROTECTED COMPARTMENTS</b>
TAIL(RH)	10A	Position lights. License plate lights. Tail lights
C/LIGHTER	15A	Cigar lighter
EPS	10A	

Engine compartment

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### **Assignment of the fuses in the Engine compartment (2001, 2002)**

<b>DESCRIPTION</b>	<b>AMP RATING</b>	<b>PROTECTED COMPARTMENTS</b>
COND FAN	20A	Condenser fan
PWR WIND	30A	Power window
ABS 2	30A	ABS
IGN SW-1	30A	Ignition switch
ABS 1	30A	ABS
IGN SW-2	30A	Ignition switch
RAD FAN MTR	30A	Radiator fan motor
FUEL PUMP	20A	Fuel pump
HD LP LO	15A	Headlights (LO)
ABS	10A	ABS
INJECTOR	10A	Injector
A/C COMPR	10A	Air-con compressor
ATM RLY	20A	ATM Relay
ECU RLY	30A	Engine control unit relay
IG COIL	20A	Ignition coil
O2 SNSR	15A	Oxygen sensor
ECU	15A	Engine control unit
HORN	10A	Horn
HEAD LP HI	15A	Headlights (HI)
HEAD LP WASH	20A	-
DRL	15A	DRL
FR FOG	15 A	Front fog lights

<b>DESCRIPTION</b>	<b>AMP RATING</b>	<b>PROTECTED COMPARTMENTS</b>
DIODE-1	-	Diode 1
SPARE	30A	Sparc fuse
SPARE	20A	Spare fuse
SPARE	15A	Spare fuse
SPARE	10A	Spare fuse
DIODE-2	-	Diode 2
BLOWER	30A	Blower
PWR FUSE-2	30A	Power fuse 2
PWRAMP	20A	Power amp
SUNROOF	15 A	Sunroof
TAIL LP	20A	Tail lights
PWR FUSE-1	30A	Power fuse 1
ECU	10A	ECU
RR HTD	30A	Rear window defroter

2003, 2004, 2005

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Instrument panel

**Assignment of the fuses in the Instrument panel (2003, 2004, 2005)**

<b>DESCRIPTION</b>	<b>AMP RATING</b>	<b>PROTECTED COMPARTMENTS</b>
RR HTD IND	10A	Rear window defroster. Outside rear view mirror heater
HAZARD	10A	Hazard light. Turn signal lights
RR FOG	15A	Rear fog light
A/CON	10A	Air conditioning system
ETACS	10A	ETACS, Keyless entry system. Door lock system
DR LOCK	15A	Power door lock
P/SEAT (DRIVE)	25A	Power seat
T/LID OPEN	15A	Remote trunk lid
STOP LP	15A	Stop lights
H/LP	10A	Head light
A/BAG IND	10A	Air-bag



<b>DESCRIPTION</b>	<b>AMP RATING</b>	<b>PROTECTED COMPARTIMENTS</b>
T/SIG	10A	Turn signal lights
A/CON SW	10A	Air conditioning system
ACC SOCKET	15A	Power outlet
S/HTR	15A	Seat heater
A/BAG	15A	Air-bag
B/UP	10A	Backup lights
CLUSTER	10A	Cluster
START	10A	Engine switch
SP1	15A	Spare fuse
FRT HTD	15A	Window defroster
P/SEAT (PASS)	25A	Power Seat
SP4	15A	Spare fuse
D/CLOCK	10A	Digital clock
TAIL(LH)	10A	Position lights, License plate lights. Tail lights
AUDIO	10A	Audio
WIPER	20A	Wiper
ROOM LP	10A	Dome lights, Front door edge warning lights
TAIL(RH)	10A	Position lights, License plate lights. Tail lights
C/LIGHTER	15A	Cigar lighter
EPS	10A	-

## Engine compartment

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**Assignment of the fuses in the Engine compartment (2003, 2004, 2005)**

<b>DESCRIPTION</b>	<b>AMP RATING</b>	<b>PROTECTED COMPARTMENTS</b>
COND FAN	20A	Condenser fan
PWR WIND	40A	Power window
ABS 2	20A	ABS
IGN SW-1	30A	Ignition switch
ABS 1	40A	ABS
IGN SW-2	30A	Ignition switch

<b>DESCRIPTION</b>	<b>AMP RATING</b>	<b>PROTECTED COMPARTMENTS</b>
RAD FAN MTR	30A	Radiator fan motor
FUEL PUMP	20A	Fuel pump
HD LP LO	15A	Headlights (LO)
ABS	10A	ABS
INJECTOR	10A	Injector
A/C COMPR	10A	Air-con compressor
ATM RLY	20A	ATM Relay
ECU RLY	30A	Engine control unit relay
IG COIL	20A	Ignition coil
O2 SNSR	15A	Oxygen sensor
ECU	15A	Engine control unit
HORN	10A	Horn
HEAD LP HI	15A	Headlights (HI)
HEAD LP WASH	20A	-
DRL	15A	DRL
FR FOG	15A	Front fog lights
DIODE-1	-	Diode 1
SPARE	30A	Spare fuse
SPARE	20A	Spare fuse
SPARE	15A	Spare fuse
SPARE	10A	Spare fuse
DIODE-2	-	Diode 2

DESCRIPTION	AMP RATING	PROTECTED COMPARTMENTS
BLOWER	30A	Blower
PWR FUSE-2	30A	Power fuse 2
PWR AMP	20A	Power amp
SUNROOF	15A	Sunroof
TAIL LP	20A	Tail lights
PWR FUSE-1	30A	Power fuse 1
ECU	10A	ECU
RR HTD	30A	Rear window defroster

Learn more:



- [How to check the fuses?](#)
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