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## KIA Sportage (QL; 2017-2020..) fuses and relays

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*In this article, we consider the fourth-generation KIA Sportage (QL), available from 2017 to the present. Here you will find fuse box diagrams of KIA Sportage 2017, 2018, 2019 and 2020, 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 KIA Sportage:

### Fuse Layout KIA Sportage 2017-2020...



**Cigar lighter (power outlet) fuses in the KIA Sportage** are located in the Instrument panel fuse box (see fuse “POWER OUTLET” (Front Cigarette Lighter)), and in the Engine compartment fuse box (fuses “POWER OUTLET 1” (Front Power Outlet #2) and “POWER OUTLET 2” (Rear Power Outlet)).

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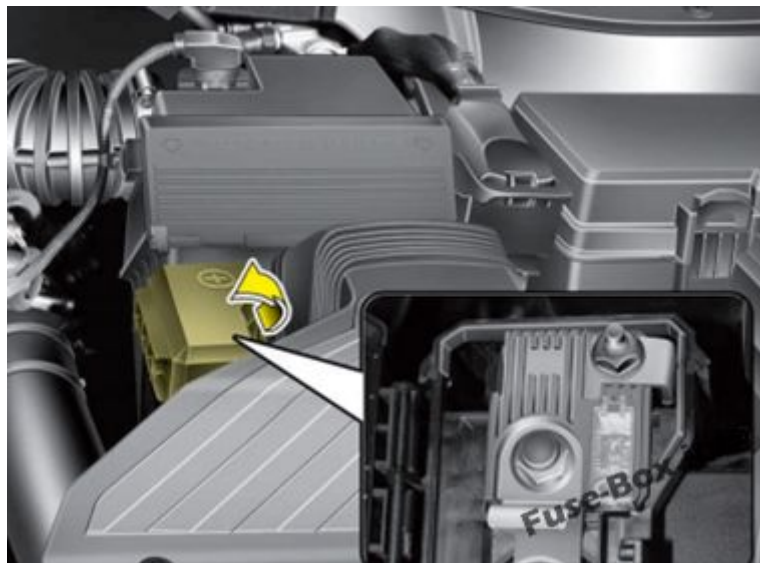
## Fuse box location

# Instrument panel

## Engine compartment



Main fuse



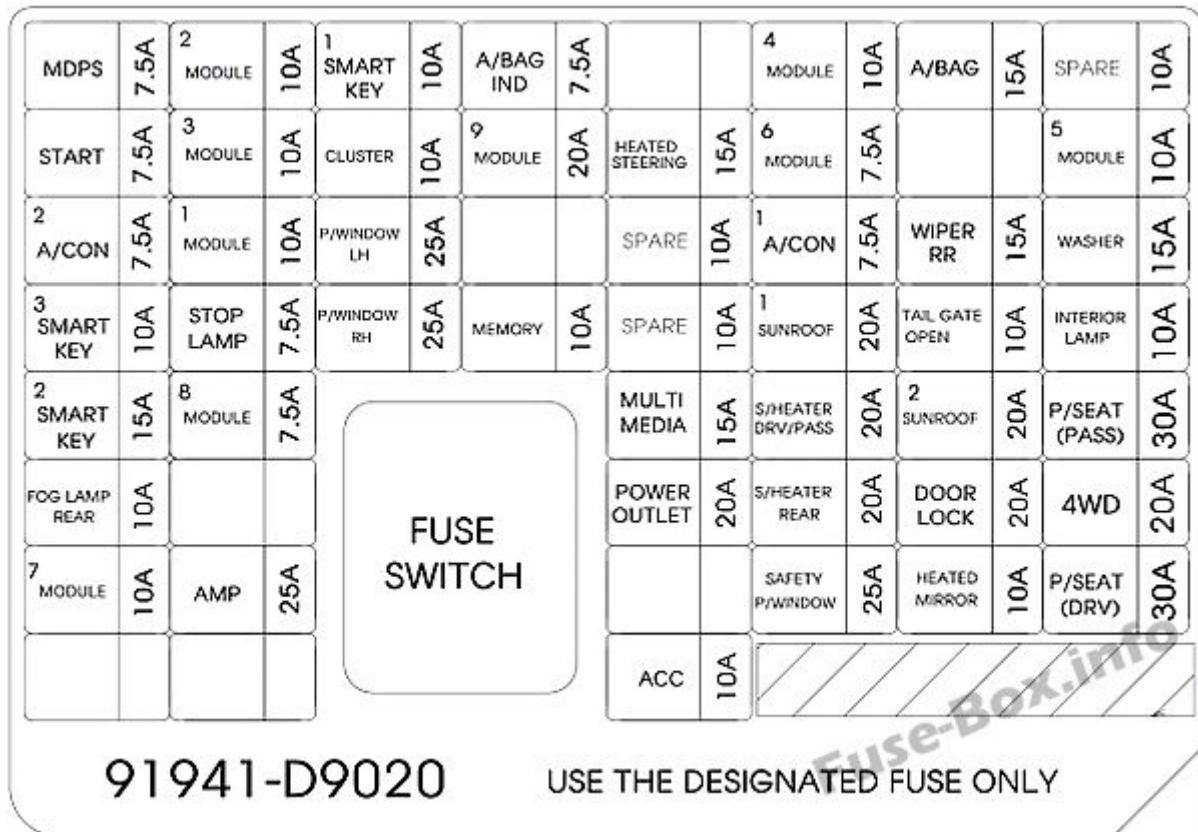
Inside the fuse/relay panel covers, you can find the label describing fuse/relay name and capacity. Not all fuse panel descriptions in this manual may be applicable to your vehicle.

## Fuse box diagrams

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2017, 2018, 2019

Instrument panel



### Assignment of the fuses in the Instrument panel (2017-2019)

Name	Amp rating	Circuit Protected
MDPS	7.5A	MDPS Unit
MODULE 2	10A	Headlamp LH/RH

<b>Name</b>	<b>Amp rating</b>	<b>Circuit Protected</b>
SMART KEY 1	10A	Smart Key Control Module/Immobilizer Module
A/BAG IND	7.5A	Instrument Cluster [Audio & Manual A/C] Hazard Switch [Audio & Auto A/C] A/C Control Module [Navigation] Center Facia Lamp
MODULE 4	10A	Console Switch, Blind Spot Detection Radar LH/RH, AWD ECM, Crash Pad Switch, BCM, Lane Departure Warning Control Module
A/BAG	15A	SRS Control Module
START	7.5A	[W/O Smart Key & IMMO.] ICM Relay Box (Burglar Alarm Relay), Ignition Switch [With Smart Key / IMMO.] Transaxle Range Switch, ECM, Smart Key Control Module
MODULE 3	10A	Front/Rear Seat Warmer Control Module, ATM Shift Lever ILL., Front Air Ventilation Seat Control Module, A/V & Navigation Head Unit, Electro Chromic Mirror, Audio, A/C Control Module, Multipurpose Check Connector, Adaptive Front Lighting Module
CLUSTER	10A	Instrument Cluster
MODULE 9	20A	PCB Block (Fuse - ABS 3, VACUUM PUMP 2, ECU 6, AEB, TCU 2, MODULE)
HEATED STEERING	15A	BCM
MODULE 6	7.5A	Front/Rear Seat Warmer Control Module, Front Air Ventilation Seat Control Module
MODULE 5	10A	BCM, Smart Key Control Module
A/CON 2	7.5A	A/C Control Module

<b>Name</b>	<b>Amp rating</b>	<b>Circuit Protected</b>
MODULE 1	10A	BCM, ATM Shift Lever
P/WINDOW LH	25A	Power Window Main Switch
A/CON 1	7.5A	A/C Control Module, Cluster Ionizer, E/R Junction Block (Blower Relay)
WIPER RR	15A	Rear Wiper Motor, ICM Relay Box (Rear Wiper Relay)
WASHER	15A	Multifunction Switch
SMART KEY 3	10A	[W/O Smart Key] Immobilizer Module [With Smart Key] Smart Key Control Module, Start/Stop Button Switch
STOP LAMP	7.5A	Smart Key Control Module, Stop Lamp Switch
P/WINDOW RH	25A	Power Window Main Switch, Passenger Power Window Switch
MEMORY	10A	Wireless Charger, Instrument Cluster, Data Link Connector, BCM, ICM Relay Box (Outside Mirror Folding/Unfolding Relay), Electro Chromic Mirror, A/C Control Module, Console Switch
SUN ROOF 1	20A	Panorama Sunroof
TAIL GATE OPEN	10A	Tail Gate Relay
INTERIOR LAMP	10A	Ignition Key III.& Door Warning Switch, Room Lamp, Overhead Console Lamp, Front Vanity Lamp LH/RH, Rear Personal Lamp LH/RH, Luggage Lamp, Glove Box Lamp
SMART KEY 2	15A	Smart Key Control Module
MODULE 8	7.5A	Key Solenoid

<b>Name</b>	<b>Amp rating</b>	<b>Circuit Protected</b>
MULTI MEDIA	15A	Audio, A/V & Navigation Head Unit, Rear USB Charger
S/HEATER DRV/PASS	20A	Front Seat Warmer Control Module, Front Air Ventilation Seat Control Module
SUN ROOF 2	20A	Panorama Sunroof
P/SEAT (PASS)	30A	Passenger Seat Manual Switch
POWER OUTLET	20A	Front Power Outlet #1 (Front Cigarette Lighter)
S/HEATER REAR	20A	Rear Seat Warmer Control Module
DOOR LOCK	20A	Door Lock/Unlock Relay
4WD	20A	AWD ECM
MODULE 7	10A	Hazard Switch, Driver/Passenger Smart Key Outside Handle, AEB Sensor
AMP	25A	AMP
SAFETY P/WINDOW	25A	Driver Safety Power Window Module
HEATED MIRROR	10A	Driver/Passenger Power Outside Mirror, A/C Control Module
P/SEAT (DRV)	30A	Driver Seat Manual Switch
ACC	10A	Rear USB Charger, AMP, Power Outside Mirror Switch, PCB Block(Power Outlet Relay), Smart Key Control Module, Audio, A/V & Navigation Head Unit, BCM, Wireless Charger

## Engine compartment

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**Assignment of the fuses in the Engine compartment (2017-2019)**

<b>Name</b>	<b>Amp rating</b>	<b>Circuit Protected</b>
<b>MULTI FUSES:</b>		
COOLING FAN 2	80A	Cooling Fan Motor
MDPS	80A	MDPS Unit
B+ 1	60A	Smart Junction Block (IPS 2 (5CH), IPS 3 (2CH), IPS 4 (2CH), IPS 5 (2CH), IPS 6 (1CH), Fuse -AMP)



<b>Name</b>	<b>Amp rating</b>	<b>Circuit Protected</b>
B+ 2	60A	Smart Junction Block (IPS 1 (5CH), Fuse - MODULE 7, SMART KEY 2, SMART KET 3, MODULE 8, STOP LAMP)
B+ 3	50A	Smart Junction Block (Fuse - SUNROOF 1, SUNROOF 2, S/HEATER DRV/PASS, S/HEATER REAR, SAFETY P/WINDOW, Power Window Relay)
BLOWER	40A	Blower Relay
REAR HEATED	40A	Rear Heated Relay
IG1	40A	[W/O Smart Key] Ignition Switch, [With Smart Key] PCB Block (PDM (IG1))/PDM (ACC) Relay)
IG2	30A	Start Relay, [W/O Smart Key] Ignition Switch, [With Smart Key] PCB Block (PDM (IG2) Relay)
<b>FUSES:</b>		
B+ 4	50A	Smart Junction Block (Fuse - AWD, P/SEAT (DRV), P/SEAT (PASS), TAIL GATE OPEN, DOOR LOCK, Leak Current Autocut Device Relay)
COOLING FAN 1	50A	Cooling Fan 1 Relay
ABS 1	40A	ESC Control Module, Multipurpose Check Connector
POWER TAIL GATE	40A	Power Tail Gate Module
ABS 2	40A	ESC Module
COOLING FAN 3	40A	Cooling Fan 1 Relay
E-CVVT 1	20A	PCM
E-CVVT 2	20A	PCM

<b>Name</b>	<b>Amp rating</b>	<b>Circuit Protected</b>
WIPER FRT 1	30A	[W/O Smart Key] Ignition Switch, [With Smart Key] PDM (IG2) Relay
TCU 1	15A	PCM
WIPER FRT 2	10A	BCM, PCM
ECU 3	20A	PCM
HORN	15A	Horn Relay
BATTERY MANAGEMENT	10A	Battery Sensor
SENSOR 2	10A	Fuel Pump Relay, Oil Control Valve, Purge Control Solenoid Valve, Variable Intake Solenoid Valve, RCV Control Solenoid Valve
SENSOR 1	15A	Oxygen Sensor (Up/Down)
ECU 2	20A	Ignition Coil #1/#2/#3/#4
ECU 4	15A	PCM
SENSOR 3	10A	E/R Junction Block (Cooling Fan 1 Relay), Canister Close Valve
FUEL PUMP	20A	Fuel Pump Relay
AEB	10A	AEB Sensor
MODULE	7.5A	Stop Lamp Switch
B/ALARM HORN	10A	E/R Junction Block (B/Alarm Horn Relay)
H/LAMP HI	10A	Bl-Function H/LP Relay
ABS 3	10A	ESC Module
POWER OUTLET 1	20A	Front Power Outlet #2

<b>Name</b>	<b>Amp rating</b>	<b>Circuit Protected</b>
ECU 6	10A	PCM
TCU 2	15A	Transaxle Range Switch
B/UP LAMP	10A	Rear Bumper Lamp LH/RH, Electro Chromic Mirror
POWER OUTLET 2	20A	Rear Power Outlet
ECU 1	30A	Engine Control Relay
DEICER	15A	E/R Junction Block (Deicer Relay)
VACUUM PUMP 1	20A	Vacuum Pump
VACUUM PUMP 2	15A	Vacuum Pump, Cooling Fan Motor, Vacuum Switch

#### Assignment of the relay (2017-2019)

<b>Relay Name</b>	<b>Type</b>
Cooling Fan 1	MINI
Rear Defogger	MICRO
B/A Horn	MICRO
Deicer	MICRO
Cooling Fan 2	MICRO
Start	MICRO
Blower	MICRO

Battery terminal cover

## 2017, 2018 RHD (UK)

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Instrument panel

## Assignment of the fuses in the Instrument panel (2017, 2018 RHD)



## Engine compartment

## Assignment of the fuses in the engine compartment (2017, 2018 RHD)



### Assignment of the relay (2017, 2018 RHD)

Battery terminal cover

**2020**

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**Instrument panel****Assignment of the fuses in the Instrument panel (2020)**

<b>Name</b>	<b>Amp rating</b>	<b>Circuit Protected</b>
MDPS	7.5A	MDPS Unit
MODULE 2	10A	Cooling Fan Unit
SMART KEY 1	10A	Smart Key Control Module/Immobilizer Module
A/BAG IND	7.5A	Instrument Cluster Audio & Manual A/C: Hazard Switch

<b>Name</b>	<b>Amp rating</b>	<b>Circuit Protected</b>
		Audio & Auto A/C: A/C Control Module Navigation: Center Facia Lamp
MODULE 4	10A	Console Switch, Blind Spot Detection Radar LH/RH, AWD ECM, BCM, Lane Departure Warning Control Module
AIR BAG	15A	SRS Control Module, Passenger seat Occupant Detection Unit
START	7.5A	W/O Smart Key & IMMO.: ICM Relay Box (Burglar Alarm Relay), Ignition Switch With Smart Key / IMMO.: Transmission Range Switch, ECM, Smart Key Control Module
MODULE 3	10A	Front/Rear Seat Warmer Control Module, ATM Shift Lever ILL., Front Air Ventilation Seat Control Module, A/V & Navigation Head Unit, Electro Chromic Mirror, Audio, A/C Control Module, Multipurpose Check Connector, Adaptive Front Lighting Module, Crash Pad Switch, Console Switch
CLUSTER	10A	Instrument Cluster
MODULE 9	20A	PCB Block (Fuse - ABS 3, VACUUM PUMP 2, ECU 6, AEB, TCU 2, MODULE)
HEATED STEERING	15A	BCM
MODULE 6	7.5A	Front/Rear Seat Warmer Control Module, Front Air Ventilation Seat Control Module
MODULE 5	10A	BCM, Smart Key Control Module
A/C 2	7.5A	A/C Control Module
MODULE 1	10A	BCM, ATM Shift Lever
P/ WINDOW LH	25A	Power Window Main Switch

<b>Name</b>	<b>Amp rating</b>	<b>Circuit Protected</b>
A/C 1	7.5A	A/C Control Module, Cluster Ionizer, E/R Junction Block (Blower Relay)
WIPER RR	15A	Rear Wiper Motor, ICM Relay Box (Rear Wiper Relay)
WASHER	15A	Multifunction Switch
SMART KEY 3	10A	W/O Smart Key: Immobilizer Module With Smart Key: Smart Key Control Module, Start/Stop Button Switch
STOP LAMP	7.5A	Smart Key Control Module, Stop Lamp Switch
P/WINDOW RH	25A	Power Window Main Switch, Passenger Power Window Switch
MEMORY	10A	Instrument Cluster, BCM, ICM Relay Box (Outside Mirror Folding/Unfolding Relay), Electro Chromic Mirror, A/C Control Module, Console Switch, Crash Pad Switch
SUN ROOF 1	20A	Panorama Sunroof
TAIL GATE OPEN	10A	Tail Gate Relay
INTERIOR LAMP	10A	Ignition Key III.& Door Warning Switch, Room Lamp, Overhead Console Lamp, Front Vanity Lamp LH/RH, Rear Personal Lamp LH/RH, Luggage Lamp, Glove Box Lamp, Wireless Charger
SMART KEY 2	15A	Smart Key Control Module
ACC	10A	Rear USB Charger, AMP, Power Outside Mirror Switch, PCB Block(Power Outlet Relay), Smart Key Control Module, Audio, A/V & Navigation Head Unit, BCM, Wireless Charger
MULTIMEDIA	15A	Audio, A/V & Navigation Head Unit, Rear USB Charger
S/HEATER DRV/PASS	20A	Front Seat Warmer Control Module, Front Air Ventilation Seat Control Module

<b>Name</b>	<b>Amp rating</b>	<b>Circuit Protected</b>
SUN ROOF 2	20A	Panorama Sunroof
P/SEAT (PASS)	30A	Passenger Seat Manual Switch
MODULE 8	7.5A	Key Solenoid, On Board Diagnostic Module
POWER OUTLET	20A	Front Power Outlet #1 (Front Cigarette Lighter)
S/HEATER REAR	20A	Rear Seat Warmer Control Module
DOOR LOCK	20A	Door Lock/Unlock Relay
4WD	20A	AWD ECM
MODULE 7	10A	Hazard Switch, Driver/Passenger Smart Key Outside Handle, AEB Sensor
AMP	25A	AMP
SAFETY P/WINDOW (DRV)	25A	Driver's seat Safety Power Window Module
HEATED MIRROR	10A	Driver/Passenger Power Outside Mirror, A/C Control Module
P/SEAT (DRV)	30A	Driver Seat Manual Switch
MODULE 10	10A	BCM
SAFETY P/WINDOW (PASS)	25A	Passenger's seat Safety Power Window Module

## Engine compartment

Advertisements

**Assignment of the fuses in the engine compartment (2020)**

<b>Name</b>	<b>Amp rating</b>	<b>Circuit Protected</b>
COOLING FAN 3	80A	Cooling Fan Motor
MDPS	80A	MDPS Unit
B+1	60A	Smart Junction Block (IPS 2 (5CH), IPS 3 (2CH), IPS 4 (2CH), IPS 5 (2CH), IPS 6 (1CH), Fuse -AMP), Module 10
B+2	60A	Smart Junction Block (IPS 1 (5CH), Fuse - MODULE 7, SMART KEY 2, SMART KET 3, STOP LAMP)

<b>Name</b>	<b>Amp rating</b>	<b>Circuit Protected</b>
B+3	50A	Smart Junction Block (Fuse - SUNROOF 1, SUNROOF 2, S/HEATER DRV/PASS, S/HEATER REAR, SAFETY P/WINDOW, Power Window Relay)
BLOWER	40A	Blower Relay
REAR HEATED	40A	Rear Heated Relay
IG1	40A	W/O Smart Key: Ignition Switch With Smart Key: PCB Block (PDM (IG1)/PDM (ACC) Relay)
IG2	30A	Start Relay, W/O Smart Key: Ignition Switch: With Smart Key: PCB Block (PDM (IG2) Relay)
B+4	50A	Smart Junction Block (Fuse - AWD, P/SEAT (DRV), P/SEAT (PASS), TAIL GATE OPEN, DOOR LOCK, Leak Current Autocut Device Relay), Module 8
COOLING FAN 1	50A	Cooling Fan 1 Relay
ABS 1	40A	ESC Control Module, Multipurpose Check Connector
POWER LIFTGATE	40A	Power Liftgate Module
ABS 2	40A	ESC Module
COOLING FAN 2	40A	Cooling Fan 1 Relay
WIPER FRT 2	10A	BCM
E-CVVT 2	20A	PCM
E-CVVT 1	20A	PCM
WIPER FRT 1	30A	W/O Smart Key: Ignition Switch With Smart Key: PDM (IG2) Relay
TCU 1	15A	PCM



<b>Name</b>	<b>Amp rating</b>	<b>Circuit Protected</b>
A/C	10A	Air Control Unit Relay
ECU 3	20A	PCM
HORN	15A	Horn Relay
BATTERY MANAGEMENT	10A	Battery Sensor
SENSOR 2	10A	Oil Control Valve, Purge Control Solenoid Valve, Variable Intake Solenoid Valve, RCV Control Solenoid
SENSOR 1	15A	Oxygen Sensor (Up/Down)
ECU 2	20A	Ignition Coil #1/#2/#3/#4
ECU 4	15A	PCM
SENSOR 3	10A	E/R Junction Block (Cooling Fan 1 Relay), Canister Close Valve, E/R Junction Block (Air Control Unit
MODULE 2	10A	E/R Junction Block (Fuel Pump Relay)
VACUUM PUMP 1	20A	Vacuum Pump
DEICER	15A	E/R Junction Block (Deicer Relay)
FUEL PUMP	20A	Fuel Pump Relay
MODULE 1	7.5A	Stop Lamp Switch
B/ALARM HORN	15A	E/R Junction Block (B/Alarm Horn Relay)
H/LAMP HI	10A	Bl-Function H/LP Relay
FCA	10A	Forward Collision-avoidance Assist (FCA) Sensor
ABS 3	10A	ESC Module
VACUUM PUMP 2	15A	Vacuum Pump, Vacuum Switch

<b>Name</b>	<b>Amp rating</b>	<b>Circuit Protected</b>
POWER OUTLET 1	20A	Front Power Outlet #2
ECU 6	10A	PCM
TCU 2	15A	Transmission Range Switch
B/UP LAMP	10A	Rear Bumper Lamp LH/RH, Electro Chromic Mirror
POWER OUTLET 2	20A	Rear Power Outlet
ECU 1	30A	Engine Control Relay
<b>Relay Name</b>		<b>Type</b>
Cooling Fan 1 Relay		MINI
Rear Defogger Relay		MICRO
A/C Relay		MICRO
B/Alarm Horn Relay		MICRO
Deicer Relay		MICRO
Cooling Fan 2 Relay		MICRO
Start Relay		MICRO
Blower Relay		MICRO
Fuel pump Relay		MICRO

Battery terminal cover (Main fuse)

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