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## KIA Sorento (XM; 2010-2015) fuses and relays

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*In this article, we consider the second-generation KIA Sorento (XM), produced from 2010 to 2015. Here you will find fuse box diagrams of **KIA Sorento 2010, 2011, 2012, 2013, 2014 and 2015**, 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 Sorento:

### Fuse Layout KIA Sorento 2010-2015



**Cigar lighter (power outlet) fuses in the KIA Sorento** are located in the Instrument panel fuse box. 2010-2013 – see fuses “P/OUTLET RR” (Rear Power Outlet), “P/OUTLET FRT” (Driver/Passenger Power Outlet). Since 2014 – fuses “P/OUTLET 1” and “P/OUTLET 2” in the Instrument panel fuse box, or “POWER OUTLET 1”, “POWER OUTLET 2”, “POWER OUTLET 3” in the Engine compartment fuse box (UK).

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## Fuse box location

## Instrument panel

*The fuse box is located behind the cover on the driver's side of the instrument panel.*

## Engine compartment

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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**2010, 2011, 2012, 2013**

Assignment of the fuses in the Instrument panel (2010-2013)

<b>Description</b>	<b>Amp rating</b>	<b>Protected component</b>
MODULE 2	10A	Instrument Cluster (IND./MICOM), Tire Pressure Monitoring Module, Audio, Multifunction Switch (Remocon), Rear Parking Assist Buzzer ICM Relay Box (DBC Relay), ESC Off Switch, DBC Switch, Steering Angle Sensor, Alternator, Smart Key Control Module A/V & Navigation Head Unit, Rear Monitor, IPM (BCM IG1)
MODULE 1	10A	Smart Key Control Module, Rear Parking Assist Control Module E/R Fuse & Relay Box (Fuse - B/UP LP, ABS, ECU 2), PDM, 4WD ECM
RPAS	7.5A	Rear Parking Assist Switch
A/BAG IND	10A	Instrument Cluster (IND.), PODS Module, Digital Clock
A/BAG	15A	SRS Control Module
START	7.5A	E/R Fuse & Relay Box (Relay - Start, Sub Start, Burglar Alarm), PDM
WIPER RR	15A	ICM Relay Box (Rear Wiper Relay), Rear Wiper Motor Rear Wiper Switch, Rear Washer Switch
WIPER FRT	25A	E/R Fuse & Relay Box (Wiper (Low) Relay), Front Wiper Motor, Multifunction Switch (Wiper)
AUDIO 2	7.5A	AMP, Power Outside Mirror Switch, Smart Key Control Module, PDM, Audio, A/V & Navigation Head Unit, Digital Clock, IPM (BCM ACC), DVD Player Can, Rear Monitor
P/OUTLET RR	15A	Rear Power Outlet
P/OUTLET FRT	25A	Driver/Passenger Power Outlet
MODULE 3	7.5A	Not Used
A/CON	7.5A	Front A/C Control Module, Active Incar Sensor, Cluster Ionize, PDM, ICM Relay Box (Front Seat Warmer Relay, Rear A/C Relay)

<b>Description</b>	<b>Amp rating</b>	<b>Protected component</b>
		E/R Fuse & Relay Box (Blower Relay), Sunroof Motor, Electro Chromic Mirror, IPM (BCM IG2)
AMP	30A	AMP
DRL	7.5A	Ground (GE01)
A/CON MANU	7.5A	PCM, Front Blower Resistor, Front A/C Control Module
A/CON AUTO	7.5A	Front A/C Control Module
B/A HORN	10A	Burglar Alarm Horn Relay
A/CON REAR	20A	ICM Relay Box (Rear A/C Relay)
P/WDW LH	25A	Driver Power Window Relay, Power Window Main Switch, Rear Power Window Switch LH, Driver Safety Power Window Module
P/WDW RH	25A	Passenger Power Window Relay, Power Window Main Switch Passenger Power Window Switch, Rear Power Window Switch RH
MODULE	15A	Audio, A/V & Navigation Head Unit, RF Receiver, IPM (BCM B+), Rear Monitor
ROOM LP	10A	Instrument Cluster (IND.), Digital Clock, Front A/C Control Module Data Link Connector, Door Warning Switch, Personal Room Lamp Room Lamp Auto Cut Relay, Overhead Console (MAP Lamp) Room Lamp, Cargo Lamp, Driver/Passenger Vanity Lamp Electro Chromic Mirror
DOOR LP	10A	Driver/Passenger Door Scuff Lamp, DVD Player Can
DR LOCK	20A	Door Lock/Unlock Relay, ICM Relay Box (Two Turn Unlock Relay) Driver/Passenger Door Lock Actuator, Rear Door Lock Actuator LH/RH
PDM	20A	PDM

<b>Description</b>	<b>Amp rating</b>	<b>Protected component</b>
SUNROOF	20A	Sunroof Motor
SMART KEY	10A	PDM, Smart Key Control Module, Start Stop Button Switch, FOB Holder, Key Solenoid
S/HTR FRT	20A	ICM Relay Box (Front Seat Warmer Relay)
P/SEAT	30A	Driver Power Seat Switch, Driver Lumbar Support Switch
4WD	10A	4WD ECM, Sport Mode Switch
HAZARD	15A	IPM (Flasher Unit)
F/LID	15A	Tail Gate Relay, Tail Gate Actuator, Fuel Filler Door Switch
TPMS	10A	Tire Pressure Monitoring Module
HTD MIRR	10A	Driver/Passenger Power Outside Mirror, Front A/C Control Module
POWER CONNECTOR		FUSE - MODULE, ROOM LP, DOOR LP

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### Assignment of the fuses in the engine compartment (2010-2013)

<b>Description</b>	<b>Amp rating</b>	<b>Protected component</b>
ALT	175A	Alternator
MULTI FUSES:		

<b>Description</b>	<b>Amp rating</b>	<b>Protected component</b>
I/P B+2	60A	IPM (Fuse - S/HTR FRT, P/SEAT, Power Connector - MODULE, ROOM LP DOOR LP)
BLOWER	40 A	Blower Relay
RR HTD	40 A	Rear Defogger Relay
ABS 1	40 A	ESC Control Module, Multipurpose Check Connector
ABS 2	40 A	ESC Control Module, Multipurpose Check Connector
I/P B+3	60A	IPM (Fuse - HAZARD, TPMS, F/LID)
I/P B+1	60A	IPM (Fuse - DR LOCK, SUNROOF, 4WD, PDM, SMART KEY)
FUSES:		
IGN 2	40A	Start Relay, W/O Smart Key - Ignition Switch, With Smart Key - PDM Relay Box (IGN2 Relay)
TRAILER	30A	Trailer Power Outlet
IGN 1	30A	W/O Smart Key - Ignition Switch, With Smart Key - PDM Relay Box (IGN1 Relay)
HORN	15A	Horn Relay
STOP LP	15A	Stop Lamp Switch, ICM Relay Box (DBC Relay)
B+SENSOR	15A	Battery Sensor
DEICER	15A	Front Wiper Deicer Relay
C/FAN	50A	Cooling Fan Relay Low/High
I/P B+4	50A	IPM (Fuse - P/WDW LH, P/WDW RH, B/A HORN, A/CON REAR, AMP)
ECU 2	7.5A	Sub Start Relay, PCM, Transaxle Range Switch, Alternator (G6DC)



<b>Description</b>	<b>Amp rating</b>	<b>Protected component</b>
ABS	7.5A	ESC Control Module, Multipurpose Check Connector, Stop Lamp Switch (G4KE)
B/UP LP	7.5A	Back-Up Lamp Relay (A/T), Back-Up Lamp Switch (M/T)
EMS BOX:		
ECU	30A	Engine Control Relay
ECU 3	20A	G4KE - Ignition Coil #1/2/3/4, Condenser G6DC - Ignition Coil #172/3/4/5/6, Condenser #1/2
SENSOR 1	10A	G4KE - Variable Intake Manifold Valve, Crankshaft Position Sensor, Immobilizer Module, Camshaft Position Sensor #1/2, Oil Control Valve #1/2, Canister Purge Control Solenoid Valve, Canister Close Valve, Cooling Fan (Low) Relay G6DC - Variable Intake Manifold Valve #1/2, Immobilizer Module, Canister Purge Control Solenoid Valve, Oil Control Valve #1/2 (Exhaust), Oil Control Valve #1/2 (Intake), Canister Close Valve
SENSOR 2	10A	G6DC - Cooling Fan (Low) Relay, Stop Lamp Switch
SENSOR 3	10A	G4KE - Injector #1/2/3/4, A/C Relay G6DC - PCM, Injector #1/273/4/5/6, A/C Relay
SENSOR 4	15A	G4KE - Oxygen Sensor Up/Down, Fuel Pump Relay G6DC - PCM, Oxygen Sensor #1/2/3/4, Fuel Pump Relay, Variable Charge Motion Actuator
ECU 1	15A	PCM
A/CON	10A	A/C Relay
F/PUMP	15A	Fuel Pump Relay

## 2010 RHD (UK)

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Assignment of the fuses in the Instrument panel (2010 RHD)

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## Assignment of the fuses in the Engine compartment (2010 RHD)

**Engine compartment sub fuse panel (if equipped)**

2014, 2015

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Instrument panel

**Assignment of the fuses in the Instrument panel (2014, 2015)**

<b>Description</b>	<b>Amp rating</b>	<b>Protected component</b>
MODULE 2	10A	Instrument Cluster (IND./MICOM), Steering Angle Sensor, Alternator, Smart Key Control Module, A/V & Navigation Head Unit, STOP_SW, SI_ECU, HLLD LH/RH
MODULE 1	7.5A	SPORTS MODE SW/KEY_SOL, SPORT_MODE_SW
A/BAG IND	10A	Instrument Cluster (IND.), Digital Clock
A/BAG	15A	SRS Control Module, PODS Module
START	7.5A	E/R Fuse & Relay Box (Relay - Start, Sub Start, Burglar Alarm), PDM
WIPER RR	15A	ICM Relay Box (Rear Wiper Relay), Rear Wiper Motor, Multifunction Switch (Wiper)
WIPER FRT	25A	E/R Fuse & Relay Box (Wiper (Low) Relay), Front Wiper Motor, Multifunction Switch (Wiper)
MODULE 3	10A	ESC Off Switch, Front A/C Control Module, Instrument Cluster, Audio, MTS, A/V & Navigation Head Unit, Tire Pressure Monitoring Module, Power Window Main Switch, 4WD ECU, P_WDW_PAS_SW_IMS, Rear Parking Assist SNSR, FRT_DRV_SEAT_EXT, FRT_PASS_SEAT_EXT, CONSOLE_EXTN, IPM (BCM IG1)
A/CON	7.5A	Front A/C Control Module, Active Incar Sensor, Cluster Ionize, ICM Relay Box (Rear A/C Relay) E/R Fuse & Relay Box (Blower Relay)
AMP	30A	AMP
P/OUTLET 1	15A	-
P/OUTLET 2	20A	LUGGAGE_POWER_OUTLET, FRT_POWER_OUTLET_DRV
BLOWER RR	20A	ICM Relay Box (Rear A/C Relay)

<b>Description</b>	<b>Amp rating</b>	<b>Protected component</b>
P/WDW LH	25A	Driver Power Window Relay, Power Window Main Switch, Rear Power Window Switch LH, Driver Safety Power Window Module
P/WDW RH	25A	Passenger Power Window Relay, Power Window Main Switch Passenger Power Window Switch, Rear Power Window Switch RH
DR LOCK	20A	Door Lock/Unlock Relay, ICM Relay Box (Two Turn Unlock Relay), Driver/Passenger Door Lock Actuator, Rear Door Lock Actuator LH/RH, ICM Relay Box (T/GATE LATCH Relay)
SMART KEY 4	10A	PDM, Start Stop Button Switch, FOB Holder
S/HTR FRT	20A	FRT_D RV SEAT_EXT, FRT PAS S_SEAT_EXT
P/SEAT DRV	30A	Driver Power Seat Switch, Driver Lumbar Support Switch
P/SEAT PASS	20A	Passenger Power Seat Switch
HTD STRG	15A	Steering wheel heater
F/LID	15A	Fuel Filler Door Switch
MODULE4	10A	O/S Mirror Switch, Power Window Switch, E/R Fuse & Relay Box(POWER OUTLET RLY), Digital Clock, MTS, Audio, A/V & Navigation Head Unit
HTD MIRR	10A	Driver/Passenger Power Outside Mirror, Front A/C Control Module
SMART_KEY_1	25A	SMART KEY/SMK UNIT
SMART_KEY_2	7.5A	Smart Key Control Module
SMART_KEY_3	7.5A	Smart Key Control Module
S/HEATER RR	15A	ICM Relay Box (RR SEAT WARMER LH RLY), ICM Relay Box (RR SEAT WARMER RH RLY)

<b>Description</b>	<b>Amp rating</b>	<b>Protected component</b>
INTERIOR LAMP	10A	DR SCUFF LP DRV, DR SCUFF LP PASS, DR WARNG SW, S VISOR LP LH/RH, OHC LAMP, ROOM LP, RL/RR PERSONAL LAMP, CARGO LAMP
MULTIMEDIA	15A	Audio, A/V & Navigation Head Unit, MTS
MEMORY	10A	OBD II, Front A/C Control Module, TPMS, Digital Clock, INSIDE MIRR, S WARMER SW LH/RH, AIR VENT SEAT SW LH/RH, CLUSTER, O S MIRR SW, P WDW MAIN SW, FRT DRV SEAT EXT, P WDW PASS SW

### Engine compartment



**Assignment of the fuses in the Engine compartment (2014, 2015)**

<b>Description</b>	<b>Amp rating</b>	<b>Protected component</b>
MULTI FUSES:		
I/P B+2	60A	IPM (Fuse - S/HTR FRT, P/Seat SUN ROOF-1 25A, IPS1 (FOG LH/RH, TAIL LAMP LH), ARISU LH (HEAD LAMP LOW LH, HEAD LAMP HI LH, TURN SIG RL, TURN SIG FL)
BLOWER	40A	Blower Relay
RR HTD	40A	Rear Defogger Relay
ABS 1	40A	ESC Control Module, Multipurpose Check Connector
ABS 2	40A	ESC Control Module, Multipurpose Check Connector
I/P B+3	60A	SMART KEY-1 25A, SMART KEY-4 10A, MODULE-1 7.5A, SUNROOF-2 25A, (FUSE SW RLY, INTERIOR LAMP 10A : DR SCUFF LP DRV, DR SCUFF LP PASS, DR WARNG SW, S VISOR LP LH/RH, OHC LAMP, ROOM LP, RL/RR PERSONAL LAMP, CARGO LAMP, MULTI-MEDIA 15A : Audio, A/V & Navigation Head Unit, MTS, MEMORY 10A : OBD II, Front A/C Control Module, TPMS, Digital Clock, INSIDE MIRR, S WARMER SW LH/RH, AIR VENT SEAT SW LH/ RH, CLUSTER, O_S MIRR SW, P WDW MAIN SW, FRT DRV SEAT EXT, P WDW PASS SW)
I/P B+1	50A	AMP 30A, P/WDW LH 25A, P/WDW RH 25A, S/HEATER RR 15A
MDPS	80A	MDPS_ECU
C/FAN	60A	E/R Fuse & Relay Box (C/FAN RLY)
<b>FUSES:</b>		

<b>Description</b>	<b>Amp rating</b>	<b>Protected component</b>
IGN 2	40A	Start Relay, W/O Smart Key - Ignition Switch, With Smart Key - E/R Fuse & Relay Box (IGN2 Relay)
TRAILER	30A	Trailer Power Outlet
IGN 1	40A	W/O Smart Key - Ignition Switch, With Smart Key - E/R Fuse & Relay Box (IGN1 Relay, ACC Relay )
HORN	15A	Horn Relay
DEICER	15A	Front Wiper Deicer Relay
I/P B+4	50A	IPM (DR LOCK 20A, BLOWER RR 20A, FUEL LID 15A, IPS3 (TAIL LAMP RH, TAIL INT LAMP), ARISU RH (HEAD LAMP LOW RH, HEAD LAMP HI RH, TURN SIG RR, TURN SIG FR)
ABS	7.5A	ESC Control Module, Multipurpose Check Connector
B/UP LP	7.5A	Back-Up Lamp Relay (A/T), Back-Up Lamp Switch (M/T)
4WD	20A	4W_DEC_U
B/A HORN	15A	B/A RLY
SENSOR 5	7.5A	PCM
TCU	15A	Transaxle Range Switch, PCM
EMS BOX:		
A/CON	10A	E/R Fuse & Relay Box(BLOWER RLY, Front A/C Control Module)
AC INVERTER	30A	AC_INVERTER_UNIT
POWER OUTLET	25A	E/R Fuse & Relay Box (POWER OUTLET RLY), RR P OUTLET, FRT_POWER_OUTLET_PASS
P/TAILGATE	30A	PTGM

<b>Description</b>	<b>Amp rating</b>	<b>Protected component</b>
H/LAMP RH	10A	E/R Fuse & Relay Box(H/LAMP RH RLY), H_LP_RH
AMS	10A	E/R Fuse & Relay WIPER LO RLY), PCM
EMS	40A	EMS BOX(MAIN RLY(IGN COIL 20A, ECU 1 20A, SNSR 1 10A, SNSR 2 10A, ECU 2 10A, INJECTORJ 10A), F/PUMP 15A, ECU_4 15A
SENSOR 1	10A	Theta : Purge Control Solenoid Valve, Oil Control Valve #1/2, Variable Intake Manifold Valve, Crankshaft Position Sensor, Oxygen Sensor Up/Down Lambda : PCM, Oxygen Sensor #1/2/3/4
SENSOR 2	10A	Theta : C/FAN RLY, Canister Close Valve Lambda : C/FAN RLY, PCM, Canister Close Valve, Oil Control Valve #1/2 (Exhaust), Oil Control Valve #1/2 (Intake), Purge Control Solenoid Valve, Variable Intake Manifold Valve #1/2, Immobilizer Module
ECU 1	20A	PCM
F/PUMP	15A	Fuel Pump Relay
IGN COIL	20A	Theta : IG COIL CAPACITOR, IG COIL 1/2/3/4, Lambda : CONDENSOR1/2,IGN_COIL_HARN_LAG, GN_COIL_2/4/6
INJECTOR	10A	Theta : Immobilizer Module, F/PUMP RLY, Lambda : PCM, F/PUMP RLY
ECU 4	15A	Theta : PCM, Lambda : PCM, IDB

## 2015 RHD (UK)

## Instrument panel

### Assignment of the fuses in the Instrument panel (2015 RHD)



## Engine compartment

### Assignment of the fuses in the Engine compartment (2015 RHD)







## Engine compartment fuse panel (Diesel engine only)

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- 
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