

2016 Kia Sportage (Smart Key) - North America

**Wiring Information**

Item	Wire Color	Polarity	Wire Location
12 Volts	red (40A)	+	driver kick, white 15 pin plug, pin 11
Second 12 Volts	pink (30A)	+	driver kick, white 15 pin plug, pin 12
Starter	red	+	dash fuse box, rear, white 54 pin plug (E), pin 1
Ignition	blue	+	dash fuse box, rear, white 54 pin plug (E), pin 25
Accessory	white or blue	+	dash fuse box, rear, white 54 pin plug (E), pin 31
Second Accessory	white	+	dash fuse box, rear, white 54 pin plug (E), pin 54
PTS 1	white	-	start stop button switch, black 12 pin plug, pin 1
PTS 2	white/black	-	start stop button switch, black 12 pin plug, pin 8
CAN Bus High	green (C-CAN)	data	data link connector, black 16 pin plug, pin 6
CAN Bus Low	orange (C-CAN)	data	data link connector, black 16 pin plug, pin 14
CAN Bus High 2	blue (B-CAN)	data	right of dash fuse box, black 20 pin plug, pin 20
CAN Bus Low 2	red (B-CAN)	data	right of dash fuse box, black 20 pin plug, pin 10
IMMO Data	blue (EMS COM)	data	passenger kick, yellow 24 pin plug, pin 7
Power Lock	blue/black	-	dash fuse box, white 54 pin plug (D), pin 40
Power Unlock	gray/black (all doors); yellow/black (driver door only)	-	dash fuse box, white 54 pin plug (D), pin 18; rear, white 54 pin plug (E), pin 49
Lock Motor	orange	5 wire	dash fuse box, white 54 pin plug (D), pin 22
Driver Unlock Motor	white	5 wire	driver kick, gray 24 pin plug, pin 10
Passenger Unlock Motor	blue	5 wire	dash fuse box, white 54 pin plug (D), pin 23
Factory Alarm Arm	brown (key lock); pink or gray (detection) (see Tech Doc 1300)	- and open	dash fuse box, white 54 pin plug (D), pins 14, 7
Factory Alarm Disarm	red (key unlock); pink or gray (detection) (see Tech Doc 1300)	both -	dash fuse box, white 54 pin plug (D), pins 36, 7
Disarm No Unlock	(see factory alarm disarm)		
Parking Lights (+)	green (L); yellow (R)	+	dash fuse box, white 54 pin plug (D), pins 34, 51

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Item	Wire Color	Polarity	Wire Location
Parking Lights (-)	blue	-	headlight switch, white 13 pin plug, pin 1
Hazards	yellow/orange	-	hazard switch, black 6 pin plug, pin 5
Turn Signal (Left)	yellow (F); white (R)	+	dash fuse box, wht 24 pin plug (B), pin 5; wht 54 pin plug (D), pin 46
Turn Signal (Right)	white (F); white/black (R)	+	dash fuse box, wht 24 pin plug (B), pin 4; wht 54 pin plug (D), pin 47
Headlight	blue/orange or blue	-	headlight switch, white 13 pin plug, pin 4
AutoLights	yellow (interrupt to turn off autolights)	-	headlight switch, white 13 pin plug, pin 3
Reverse Light	red	+	dash fuse box, white 54 pin plug (D), pin 27
Left Front Door Trigger	green/orange	-	dash fuse box, white 54 pin plug (D), pin 10
Right Front Door Trigger	pink/black	-	dash fuse box, white 54 pin plug (D), pin 9
Left Rear Door Trigger	yellow/black	-	dash fuse box, white 54 pin plug (D), pin 8
Right Rear Door Trigger	green or gray/black	-	dash fuse box, white 54 pin plug (D), pin 17
Dome Light	brown	-	BCM above gas pedal, white 16 pin plug, pin 7
Trunk/Hatch Pin	white	-	dash fuse box, white 54 pin plug (D), pin 16
Hood Pin	red/black	-	dash fuse box, white 24 pin plug (B), pin 18
Trunk/Hatch Release	yellow/black (rear handle switch)	-	dash fuse box, white 54 pin plug (D), pin 13
Trunk Release Motor	blue	+	dash fuse box, white 54 pin plug (D), pin 2
Tachometer	green	ac	passenger kick, yellow 24 pin plug, pin 4
Clutch Pedal	white	-	clutch switch, white 2 pin plug, pin 2
Fuel Pump	pink	+	above pass kick on firewall, wht 23 pin plg, pin 9
Rear Defroster	green/orange (rear defog); blue (frnt wiper deice)	- latched	dash fuse box, white 24 pin plug (B), pins 23, 9
Mirror Defroster	(same as rear defroster)		
Left Front Heated Seat	pink/black (LO); orange (HI)	+	driver seat warmer switch, white 10 pin plug, pins 3, 4

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Item	Wire Color	Polarity	Wire Location
Right Front Heated Seat	pink/black (LO); orange (HI)	+	passenger seat warmer switch, white 10 pin plug, pins 3, 4
Speed Sense	brown	4-Pulse	data link conn, blk 16 pin plg, pin 3 or radio, white 24 pin plug, pin 16
Brake Wire	blue/orange	+	brake switch, white 4 pin plug, pin 4
Parking Brake	gray/orange	-	dash fuse box, wht 54 pin plug (D), pin 15 or wht 24 pin plg (B), pin 19
Horn Trigger	gray	-	driver kick, white 15 pin plug, pin 6
Wipers	green (LO); pink (HI); yellow (ignition)	+	wiper switch, white 14 pin plug, pins 3, 9, 10
Left Front Window (Up/Down)	white - pink (with auto down only)	A	power window main switch, white 16 pin plug, pins 7 - 8
Right Front Window (Up/Down)	gray - green	A	driver kick, door harness
Left Rear Window (Up/Down)	pink - brown	A	driver kick, door harness
Right Rear Window (Up/Down)	blue - orange	A	driver kick, door harness
Sun Roof (Open/Close)	white - brown/black (funct with ignition on only)	-	sunroof switch, white 4 pin plug, pins 1 - 4
Radio 12V	red	+	radio, white 24 pin plug, pin 12
Radio Ground	black	-	radio, white 24 pin plug, pin 24
Radio Ignition	brown or pink	+	radio, white 24 pin plug, pin 11
Radio Illumination	red/orange (parking lights); blue/orange (dimmer)	+,-	radio, white 18 pin plug, pins 8, 17
Factory Amp Turn-on	(M-CAN)		
Power Antenna	green	+	radio, white 18 pin plug, pin 18
Left Front Speaker (+/-)	brown - white	+,-	radio, white 18 pin plug, pins 2 - 11
Right Front Speaker (+/-)	red - blue	+,-	radio, white 18 pin plug, pins 3 - 12
Left Rear Speaker (+/-)	yellow - black	+,-	radio, white 18 pin plug, pins 1 - 10
Right Rear Speaker (+/-)	green - orange	+,-	radio, white 18 pin plug, pins 4 - 13
Subwoofer (+/-)	green - orange (1); blue - red (2)	+,-	amplifier in RR cargo floor, white 26 pin plug, pins 13 - 26; 12 - 25

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Aux. Audio Input Left (+/-)	yellow - black/orange or black - black/orange	+,-	radio, white 24 pin plug, pins 21 - 9
Aux. Audio Input Right (+/-)	brown - black/orange or red - black/orange	+,-	radio, white 24 pin plug, pins 8 - 9
RSE Video (+/-)	green - white (rear view camera video)	+,-	radio, wh 16P plg, pins 4-3; wh 24P plg, pins 6-18
Satellite Radio 12 Volts	(built into radio)		

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**What Fits**

Item	Size	Depth	Location
Headunit	irregular		center of dash
Left Front Speaker	6.5		left front door
Left Front Tweeter			left front door
Right Front Speaker	6.5		right front door
Right Front Tweeter			right front door
Left Rear Speaker	6.5		left rear door
Right Rear Speaker	6.5		right rear door
Subwoofer			right rear quarter panel
Satellite Radio Tuner	(built into radio)		

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**Additional Wiring Notes**

Item	Note
Left Front Heated Seat	On models with climate control seat, it is red/black (+) at the driver climate control seat switch, white 12 pin plug, pin 7.
Left Front Speaker (+/-)	On models with amplifier, the speaker wires are red - blue (woofer); brown - white (tweeter) at the amplifier in RR cargo floor, white 12 pin plug, pins 6 - 12; 4 - 10.
Left Rear Speaker (+/-)	On models with amplifier, the speaker wires are yellow - black at the amplifier in RR cargo floor, white 12 pin plug, pins 2 - 8.
Right Front Heated Seat	On models with climate control seat, it is red/black (+) at the passenger climate control seat switch, white 12 pin plug, pin 9.
Right Front Speaker (+/-)	On models with amplifier, the speaker wires are black - yellow (woofer); red - blue (tweeter) at the amplifier in RR cargo floor, white 12 pin plug, pins 5 - 11; 3 - 9.
Right Rear Speaker (+/-)	On models with amplifier, the speaker wires are green - orange or gray at the amplifier in RR cargo floor, white 12 pin plug, pins 1 - 7.