

2012 Kia Sorento (Smart Key)



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, white 8 pin plug (C), pin 4
Second Starter	black/orange (SS1); pink (SS2)	+	start/stop button switch, black 10 pin plug, pins 1, 7
Ignition	green	+	dash fuse box, white 8 pin plug (C), pin 3
Second Ignition	N/A		
Third Ignition	N/A		
Accessory	blue	+	dash fuse box, white 8 pin plug (C), pin 2
Second Accessory	yellow	+	dash fuse box, white 8 pin plug (C), pin 1
Third Accessory	N/A		
Key Sense	red or red/orange	-	dash fuse box, rear, white 16 pin plug (MM), pin 8
Data Bus	blue (EMS COM immobilizer data)	data	passenger kick, green 18 pin plug, pin 18
Can Bus High	blue (B-CAN); white (C-CAN)	data	dsh FB, rear wh 16P plg(MM), pin5; data link conn, blk 16 pin plg, pin 6
Can Bus Low	red (B-CAN); red (C-CAN)	data	dsh FB, rear wh 16P plg(MM), pin6; data link conn, bk 16 pin plg, pin14
Can Bus Sw	N/A		
Power Lock	blue/black	-	dash fuse box, white 26 pin plug (FK), pin 4
Power Unlock	gray/black (all doors); yel/blk (driver door only)	-	dash fuse box, wht 26P plg(FK), pin 24; rear, wht 16P plug (MM), pin 2
Lock Motor	orange	5 wire	dash fuse box, white 39 pin plug (A), pin 16
Unlock Motor	green	5 wire	driver kick, door harness
Disarm Defeat	blue	5 wire	dash fuse box, white 39 pin plug (A), pin 17
Parking Lights (+)	green (L); yellow (R)	+	dash fuse box, white 39 pin plug (A), pins 11, 7
Parking Lights (-)	blue	-	headlight switch, white 13 pin plug, pin 2
Hazards	yellow	-	dash fuse box, rear, white 16 pin plug (MM), pin 10
Turn Signal (Left)	white (F); white (R)	+	dash fuse box, red 20 pin plug (F), pin 10; wht 39 pin plug (A), pin 14
Turn Signal (Right)	yellow/black (F); pink (R)	+	dash fuse box, red 20 pin plug (F), pin 20; wht 39 pin plug (A), pin 13

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Headlight	blue	-	headlight switch, white 13 pin plug, pin 4
AutoLights	green (interrupt to turn off autolights)	-	headlight switch, white 13 pin plug, pin 3
Reverse Light	red	+	dash fuse box, white 39 pin plug (A), pin 15
Left Front Door Trigger	green/orange	-	dash fuse box, white 26 pin plug (FK), pin 10
Right Front Door Trigger	pink/black	-	dash fuse box, white 26 pin plug (FK), pin 18
Left Rear Door Trigger	white	-	dash fuse box, white 26 pin plug (FK), pin 7
Right Rear Door Trigger	gray/black	-	dash fuse box, white 26 pin plug (FK), pin 5
Dome Supervision	brown	-	left front pillar, white 22 pin plug, pin 1
Trunk/Hatch Pin	yellow/black	-	dash fuse box, white 26 pin plug (FK), pin 19
Rear Glass Pin	N/A		
Hood Pin	red/black	-	dash fuse box, red 20 pin plug (F), pin 16
Trunk Hatch/Release	yellow/black (rear handle switch)	-	dash fuse box, white 26 pin plug (FK), pin 11
Trunk Release Motor	blue	+	dash fuse box, white 39 pin plug (A), pin 26
Fuel Door Release	blue/orange	+	driver kick, harness to rear
Power Sliding Door (Left)	N/A		
Power Sliding Door (Right)	N/A		
Factory Alarm Arm	brown/org (key lock); gray (detect)(Tech Doc 1300)	- and open	dash fuse box, white 26 pin plug (FK), pins 21, 26
Factory Alarm Disarm	pink (key unlock); gray (detect) (Tech Doc 1300)	both -	dash fuse box, white 26 pin plug (FK), pins 9, 26
Disarm No Unlock	(see factory alarm disarm)		
Trunk Alarm Shunt	N/A		
Tachometer	blue/orange	ac	passenger kick, brown 24 pin plug, pin 4
Wait to Start	N/A		
Neutral Safety	N/A		
Clutch Pedal	white/orange	-	clutch switch, white 2 pin plug, pin 2
Fuel Pump	blue	+	dash fuse box, white 39 pin plug (A), pin 30
Rear Defroster	gray	- latched	dash fuse box, red 20 pin plug (F), pin 17
Mirror Defroster	(same as rear defroster)		
Left Front Heated Seat	blue	+	driver kick, gray 24 pin plug, pin 1
Right Front Heated Seat	blue	+	passenger kick, yellow 22 pin plug, pin 20

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Speed Sense	brown	4-Pulse	data link conn, blk 16 pin plg, pin 3 or radio, gray 8 pin plug, pin 1
Brake Wire	yellow (2.4L); green/black (3.5L)	+	brake switch, white 4 pin plug, pin 1
Parking Brake	gray	-	dash fuse box, white 26 pin plug (FK), pin 6
Horn Trigger	gray/black	-	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)	pink - brown (without safety power window only)	A	power window main switch, white 16 pin plug, pins 9 - 1
Right Front Window (Up/Down)	gray - green (w/o memory); pink - brown (w/memory)	A	driv kick, door harness; pass window switch, white 16 pin plg, pins 14-15
Left Rear Window (Up/Down)	pink - brown	A	driver kick, door harness
Right Rear Window (Up/Down)	blue - orange/black	A	driver kick, door harness
Sun Roof (Open/Close)	blue - orange (function with ignition on only)	-	sunroof switch, white 4 pin plug, pins 1 - 4
Sun Roof (Limit/Close)	N/A		
Memory Seat 1	gray	-	power window main switch, white 20 pin plug, pin 7
Memory Seat 2	green/black	-	power window main switch, white 20 pin plug, pin 8
Memory Seat 3	N/A		
Radio 12V	red/orange	+	radio, gray 8 pin plug, pin 4 or white 24 pin plug, pin 12
Radio Ground	black	-	radio, gray 8 pin plug, pin 8 or white 24 pin plug, pin 24
Radio Ignition	blue/orange or white/orange	+	radio, gray 8 pin plug, pin 6 or white 24 pin plug, pin 11
Radio Illumination	yellow (parking lights); black/orange (dimmer)	+,-	radio, gray 8 pin plug, pins 2, 7 or white 18 pin plug, pins 8, 17
Factory Amp Turn-on	(M-CAN)		
Power Antenna	green	+	radio, gray 8 pin plug, pin 3 or white 18 pin plug, pin 18
Left Front Speaker (+/-)	brown - white	+,-	radio, brown 8 pin plug, pins 3 - 7 or white 18 pin plug, pins 2 - 11
Right Front Speaker (+/-)	blue - red	+,-	radio, brown 8 pin plug, pins 2 - 6 or white 18 pin plug, pins 3 - 12
Left Rear Speaker (+/-)	yellow - black	+,-	radio, brown 8 pin plug, pins 4 - 8 or white 18 pin plug, pins 1 - 10
Right Rear Speaker (+/-)	green - orange	+,-	radio, brown 8 pin plug, pins 1 - 5 or white 18 pin plug, pins 4 - 13
Center Channel (+/-)	blue - red	+,-	amplifier under passenger seat, gray 16 pin plug, pins 7 - 15
Subwoofer (+/-)	green - orange (1); blue - red (2)	+,-	amplifier under pass seat, gray 26 pin plug, pins 13 - 26; 12 - 25
Aux. Audio Input Left (+/-)	brown or green - black/orange	+,-	radio, bk 20P plg, pins 4-10; wh 24P plg, pins 21-9
Aux. Audio Input Right (+/-)	white - black/orange	+,-	radio, bk 20P plg, pins 3-10; wh 24P plg, pins 8-9
RSE Video (+/-)	red - black/orange (rear view camera video)	+,-	radio, white 24 pin plug, pins 15 - 16 or 6 - 18
RSE Audio Left (+/-)	N/A		
RSE Audio Right (+/-)	N/A		
Satellite Radio 12 Volts	(built into radio)		
Satellite Radio Ground	N/A		
Satellite Radio Ignition	N/A		
Satellite Radio Antenna	N/A		

DirectWire Vehicle Information - 3/13/2015 8:19:02 AM		
Satellite Audio Left (+/-)	N/A	
Satellite Audio Right (+/-)	N/A	

What Fits

Item	Size	Depth	Location
Headunit	double DIN		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
Left Rear Tweeter			left rear pillar
Right Rear Speaker	6.5		right rear door
Right Rear Tweeter			right rear pillar
Center Channel			top center of dash
Subwoofer			left rear quarter panel
Left Front Headrest			
Right Front Headrest			
Left Right Headrest			
Right Rear Headrest			
Satellite Radio Tuner	(built into radio)		

Additional Wiring Notes

Item	Note
Speed Sense	On models with UVO audio, it is brown at the radio, white 24 pin plug, pin 16.
Left Front Speaker (+/-)	On models with amplifier, the speaker wires are brown - white at the amplifier under passenger seat, yellow 12 pin plug, pins 6 - 12. The tweeter wires are brown/orange - white/orange at the amplifier, yellow 12 pin plug, pins 4 - 10.
Right Front Speaker (+/-)	On models with amplifier, the speaker wires are blue/orange - red/black at the amplifier under passenger seat, yellow 12 pin plug, pins 5 - 11. The tweeter wires are blue - red at the amplifier, yellow 12 pin plug, pins 3 - 9.
Left Rear Speaker (+/-)	On models with amplifier, the speaker wires are yellow - black at the amplifier under passenger seat, yellow 12 pin plug, pins 2 - 8. The surround wires are orange - gray at the amplifier, gray 16 pin plug, pins 2 - 10.
Right Rear Speaker (+/-)	On models with amplifier, the speaker wires are green - orange at the amplifier under passenger seat, yellow 12 pin plug, pins 1 - 7. The surround wires are orange - pink at the amplifier, gray 16 pin plug, pins 1 - 9.