

2012 Kia Rio



Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	pink (40A)	+	ignition switch, black 6 pin plug, pin 1
Second 12 Volts	blue (40A)	+	ignition switch, black 6 pin plug, pin 5
Starter	white	+	ignition switch, black 6 pin plug, pin 3
Second Starter	pink and gray/black (push-button start)	-	start/stop button switch, white 12 pin plug, pins 1 and 8
Ignition	pink	+	ignition switch, black 6 pin plug, pin 4
Second Ignition	N/A		
Third Ignition	N/A		
Accessory	red	+	ignition switch, black 6 pin plug, pin 2
Second Accessory	green	+	ignition switch, black 6 pin plug, pin 6
Third Accessory	N/A		
Key Sense	white (without Smart Key only)	+	ignition key switch, white 6 pin plug, pin 3
Data Bus	blue/black (immobilizer data EMS COM)	data	right of dash fuse box, white 41 pin plug, pin 36
Can Bus High	red (C-CAN)	data	data link connector, black 16 pin plug, pin 6
Can Bus Low	blue (C-CAN)	data	data link connector, black 16 pin plug, pin 14
Can Bus Sw	N/A		
Power Lock	pink	-	BCM, white 16 pin plug, pin 6
Power Unlock	red (all doors); black/orange (driver door only)	-	BCM, white 16 pin plug, pin 5; white 22 pin plug, pin 20
Lock Motor	green	5 wire	dash fuse box, white 42 pin plug (F), pin 21
Unlock Motor	brown	5 wire	dash fuse box, white 42 pin plug (F), pin 40
Disarm Defeat	brown	5 wire	dash fuse box, white 42 pin plug (F), pin 41
Parking Lights (+)	green/black (L), yellow/black (R)	+	dash fuse box, white 42 pin plug (F), pins 35 and 34
Parking Lights (-)	pink/black	-	BCM, white 26 pin plug, pin 7
Hazards	green	-	BCM, white 16 pin plug, pin 4
Turn Signal (Left)	green (F), green/orange (R)	+	BCM, black 26 pin plug, pins 7 and 5
Turn Signal (Right)	blue (F), green (R)	+	BCM, black 26 pin plug, pins 6 and 4

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Headlight	yellow	-	BCM, white 16 pin plug, pin 9
AutoLights	blue/black (interrupt to turn off autolights)	-	BCM, white 12 pin plug, pin 4
Reverse Light	green	+	BCM, white 26 pin plug, pin 16
Left Front Door Trigger	green	-	BCM, white 26 pin plug, pin 23
Right Front Door Trigger	pink	-	BCM, white 26 pin plug, pin 24
Left Rear Door Trigger	gray/black or green/black	-	BCM, white 26 pin plug, pin 14
Right Rear Door Trigger	brown/black	-	BCM, white 26 pin plug, pin 25
Dome Supervision	blue	-	BCM, white 22 pin plug, pin 3
Trunk/Hatch Pin	brown/orange	-	BCM, white 26 pin plug, pin 26
Rear Glass Pin	N/A		
Hood Pin	yellow	-	BCM, white 26 pin plug, pin 19
Trunk Hatch/Release	blue (on hatchback models this wire only unlocks)	-	BCM, white 22 pin plug, pin 21
Trunk Release Motor	orange (sedan), gray (hatchback unlock motor)	5 wire	dash fuse box, white 42 pin plug (F), pin 27
Fuel Door Release	N/A		
Power Sliding Door (Left)	N/A		
Power Sliding Door (Right)	N/A		
Factory Alarm Arm	pink (key lock), blue/blk (lock/unlock detection)	- and open	BCM, white 26 pin plug, pins 6 and 20
Factory Alarm Disarm	brn/org (key unlock), blu/blk (lock/unlock detect)	both -	BCM, white 26 pin plug, pins 5 and 20
Disarm No Unlock	see factory alarm disarm		
Trunk Alarm Shunt	N/A		
Tachometer	pink, green, brown, or red	ac	top front of engine, black 12 pin plug, pin 1, 3, 5, or 7
Wait to Start	N/A		
Neutral Safety	N/A		
Clutch Pedal	pink (input), yellow (output) (without Smart Key)	+ N.O.	clutch switch, white 2 pin plug, pins 1 and 2
Fuel Pump	orange	+	above driv kick on firewall, wht 20 pin plg, pin 6
Rear Defroster	white	-	BCM, white 16 pin plug, pin 12
Mirror Defroster	same as rear defroster		
Left Front Heated Seat	blue/black	+	seat warmer switch, white 12 pin plug, pin 1
Right Front Heated Seat	blue/black	+	seat warmer switch, white 12 pin plug, pin 12

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Speed Sense	brown	4-Pulse	data link conn, blk 16 pin plug, pin 3 or radio, wht 24 pin plug, pin 16
Brake Wire	green	+	left of dash fuse box, blue 20 pin plug, pin 16
Parking Brake	green	-	BCM, white 12 pin plug, pin 3
Horn Trigger	blue	-	right of dash fuse box, white 41 pin plug, pin 26
Wipers	green (L), white (H), brown (ignition)	+	wiper switch, white 14 pin plug, pins 3, 9, and 10
Left Front Window (Up/Down)	orange - green (without safety power window)	A	power window main switch, white 16 pin plug, pins 9 and 10
Right Front Window (Up/Down)	blue - gray	A	driver kick, door harness
Left Rear Window (Up/Down)	brown - white	A	driver kick, door harness
Right Rear Window (Up/Down)	gray - blue	A	driver kick, door harness
Sun Roof (Open/Close)	red and blue (open) (functions with ign on only)	both -	sunroof switch, white 4 pin plug, pins 2 and 4
Sun Roof (Limit/Close)	gray and blue (close) (functions with ign on only)	both -	sunroof switch, white 4 pin plug, pins 3 and 4
Memory Seat 1	N/A		
Memory Seat 2	N/A		
Memory Seat 3	N/A		
Radio 12V	red or brown	+	radio, white 24 pin plug, pin 12
Radio Ground	black	-	radio, white 24 pin plug, pin 24
Radio Ignition	green/orange or white	+	radio, white 24 pin plug, pin 11
Radio Illumination	yellow (parking lights), black/orange (dimmer)	+,-	radio, white 18 pin plug, pins 8 and 17
Factory Amp Turn-on	N/A		
Power Antenna	pink	+	radio, white 18 pin plug, pin 18
Left Front Speaker (+/-)	white - brown	+,-	radio, white 18 pin plug, pins 2 and 11
Right Front Speaker (+/-)	brown - white	+,-	radio, white 18 pin plug, pins 3 and 12
Left Rear Speaker (+/-)	red - blue	+,-	radio, white 18 pin plug, pins 1 and 10
Right Rear Speaker (+/-)	green - orange	+,-	radio, white 18 pin plug, pins 4 and 13
Center Channel (+/-)	N/A		
Subwoofer (+/-)	N/A		
Aux. Audio Input Left (+/-)	white - black or black - black/orange	+,-	radio, white 24 pin plug, pins 21 and 9
Aux. Audio Input Right (+/-)	green or yellow - black or red - black/orange	+,-	radio, white 24 pin plug, pins 8 and 9
RSE Video (+/-)	green - white (rear view camera)	+,-	radio, white 24 pin plug, pins 6 and 18
RSE Audio Left (+/-)	N/A		
RSE Audio Right (+/-)	N/A		

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DirectWire Vehicle Information - 8/30/2012 2:19:56 AM			
Satellite Radio 12 Volts	N/A		
Satellite Radio Ground	N/A		
Satellite Radio Ignition	N/A		
Satellite Radio Antenna	N/A		
Satellite Audio Left (+/-)	N/A		
Satellite Audio Right (+/-)	N/A		

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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 pillar
Right Front Speaker	6.5		right front door
Right Front Tweeter			right front pillar
Left Rear Speaker	6.5		left rear door
Left Rear Tweeter	N/A		
Right Rear Speaker	6.5		right rear door
Right Rear Tweeter	N/A		
Center Channel	N/A		
Subwoofer	N/A		
Left Front Headrest			
Right Front Headrest			
Left Right Headrest			
Right Rear Headrest			
Satellite Radio Tuner	(built into radio)		

Additional Wiring Notes

Item	Note
RSE Video (+/-)	On vehicles with navigation, they are in the white 18 pin plug, pins 15 and 14.
Headlight	The BCM (Body Control Module) is to the right of the steering column.
AutoLights	The BCM (Body Control Module) is to the right of the steering column.
Reverse Light	The BCM (Body Control Module) is to the right of the steering column.
Trunk Hatch/Release	The BCM (Body Control Module) is to the right of the steering column.
Rear Defroster	The BCM (Body Control Module) is to the right of the steering column.
12 Volts	On vehicles with Smart Key, use red (50A) or white (50A) at the dash fuse box, black 2 pin plug (D), pins 1 and 2.
Parking Lights (-)	The BCM (Body Control Module) is to the right of the steering column.
Starter	On vehicles with Smart Key, it is white (+) at the dash fuse box, rear, white 21 pin plug (A), pin 3.
Ignition	On vehicles with Smart Key, it is green (+) at the dash fuse box, rear, white 54 pin plug (B), pin 25.
Accessory	On vehicles with Smart Key, it is red (+) at the dash fuse box, rear, white 54 pin plug (B), pin 1.
Second Accessory	On vehicles with Smart Key, it is pink (+) at the dash fuse box, rear, white 54 pin plug (B), pin 31.
Trunk/Hatch Pin	The BCM (Body Control Module) is to the right of the steering column.
Left Front Door Trigger	The BCM (Body Control Module) is to the right of the steering column.
Right Front Door Trigger	The BCM (Body Control Module) is to the right of the steering column.
Left Rear Door Trigger	The BCM (Body Control Module) is to the right of the steering column.
Right Rear Door Trigger	The BCM (Body Control Module) is to the right of the steering column.
Hood Pin	The BCM (Body Control Module) is to the right of the steering column.
Left Front Window (Up/Down)	On vehicles with safety power window, the driver power window motor is part of the window module, not allowing access to the motor wires.
Dome Supervision	The BCM (Body Control Module) is to the right of the steering column.
Power Lock	The BCM (Body Control Module) is to the right of the steering column.
Parking Brake	The BCM (Body Control Module) is to the right of the steering column.
Tachometer	On vehicles with Smart Key, can also use gray, left of the dash fuse box, blue 20 pin plug, pin 1.
Clutch Pedal	On vehicles with Smart Key, they are black (input), pink (output) (- N.O.) at the clutch switch, white 2 pin plug, pins 2 and 1.
Can Bus High	The B-CAN high is brown at the BCM, white 12 pin plug, pin 7. The BCM (Body Control Module) is to the right of the steering column.
Can Bus Low	The B-CAN low is white at the BCM, white 12 pin plug, pin 8. The BCM (Body Control Module) is to the right of the steering column.
Power Unlock	The BCM (Body Control Module) is to the right of the steering column.
Factory Alarm Arm	The BCM (Body Control Module) is to the right of the steering column. See Tech Doc 1300 for wiring information.
Factory Alarm Disarm	The BCM (Body Control Module) is to the right of the steering column. See Tech Doc 1300 for wiring information.
Hazards	The BCM (Body Control Module) is to the right of the steering column.
Turn Signal (Left)	The BCM (Body Control Module) is to the right of the steering column.
Turn Signal (Right)	The BCM (Body Control Module) is to the right of the steering column.
Data Bus	The immobilizer light is yellow (without Smart Key) or yellow/orange (with Smart Key) (-) at the instrument cluster, white 40 pin plug, pin 18.