

2011 Volkswagen Routan



Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red	+	battery or TIPM
Second 12 Volts	lt. blue/red (10A)	+	Wireless Ignition Node, black 12 pin plug, pin 1
Starter	yellow/gray (for starter kill only)	+	starter or TIPM, blue 26 pin plug (C2), pin 8
Second Starter	N/A		
Ignition	pink/white (for ignition sense only)	+	Wireless Ignition Node, black 12 pin plug, pin 3
Second Ignition	N/A		
Third Ignition	N/A		
Accessory	dk. blue/pink (for accessory sense only)	+	cigar lighter
Second Accessory	N/A		
Third Accessory	N/A		
Key Sense	N/A		
Data Bus	N/A		
Can Bus High	white/lt. blue (CAN C BUS)	data	Wireless Ignition Node, black 12 pin plug, pin 5
Can Bus Low	white/brown (CAN C BUS)	data	Wireless Ignition Node, black 12 pin plug, pin 6
Can Bus Sw	N/A		
Power Lock	purple/dk. green (base models)	- 330 ohms	driver kick, door harness
Power Unlock	same as power lock	- 100 ohms	
Lock Motor	tan/white	5 wire	driver kick, door harness
Unlock Motor	tan/lt. green	5 wire	driver kick, door harness
Disarm Defeat	tan/brown	5 wire	driver kick, harness to rear
Parking Lights (+)	white/purple	+	driver kick, harness to rear
Parking Lights (-)	white/lt green (need to relay isolate from switch)	-1130 ohms	headlight switch, black 6 pin plug, pin 3
Hazards	white/dk. blue	-	hazard switch, black 12 pin plug, pin 1
Turn Signal (Left)	white/lt. green (F); white/dk. green (R)	+	TIPM, gray 16 pin plug (C4), pin 9; black 50 pin plug (C7), pin 49
Turn Signal (Right)	white/tan (F); white/yellow (R)	+	TIPM, gray 16 pin plug (C4), pin 7; black 50 pin plug (C7), pin 50

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Headlight	white/lt green (need to relay isolate from switch)	- 660 ohms	headlight switch, black 6 pin plug, pin 3
AutoLights	same as headlight		
Reverse Light	white/lt. green	+	driver kick, harness to rear
Left Front Door Trigger	purple	-	driver kick, door harness
Right Front Door Trigger	purple/white	-	driver kick, harness to rear
Left Rear Door Trigger	purple/gray	-	driver kick, harness to rear
Right Rear Door Trigger	purple/yellow	-	driver kick, harness to rear
Dome Supervision	yellow/purple	+	passenger A pillar or instrument cluster, black 10 pin plug, pin 2
Trunk/Hatch Pin	purple	-	driver kick, harness to rear
Rear Glass Pin	N/A		
Hood Pin	purple/lt. blue	-	hood switch or TIPM, gray 16 pin plug (C4), pin 3
Trunk Hatch/Release	purple/tan (power liftgate)	-4700 ohms	power liftgate overhead switch or PLM, dk. gray 22 pin plug, pin 14
Trunk Release Motor	N/A		
Fuel Door Release	N/A		
Power Sliding Door (Left)	purple/dk. green (B pillar switch)	- resistor	driver kick, harness to rear
Power Sliding Door (Right)	purple/yellow (B pillar switch)	- resistor	driver kick, harness to rear
Factory Alarm Arm	factory remote only		
Factory Alarm Disarm	see disarm no unlock		
Disarm No Unlock	Sentry Key and ignition		
Trunk Alarm Shunt	N/A		
Tachometer	br/yl, br/dk bu, br/lt bu, br/tn, br/or, or br/pu	ac	any fuel injector, black 2 pin plug, pin 2
Wait to Start	N/A		
Neutral Safety	N/A		
Clutch Pedal	N/A		
Fuel Pump	dk. blue/orange	+	driver kick, harness to rear
Rear Defroster	dk. blue/white	+ latched	driver kick, harness to rear
Mirror Defroster	pink/yellow (base models)	+ latched	driver kick, door harness
Left Front Heated Seat	(CAN IHS BUS)		
Right Front Heated Seat	(CAN IHS BUS)		

Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
Speed Sense	dk. green/brown	ac	PCM, black/green 38 pin plug (C4), pin 32
Brake Wire	white/dk. green	+	brake switch or Wireless Ignition Node, black 12 pin plug, pin 8
Parking Brake	dk. green/white	-	parking brake switch, black 1 pin plug, pin 1
Horn Trigger	gray/lt. blue (1), gray/yellow (2)	+	horns or TIPM, green 26 pin plug (C3), pins 24 and 18
Wipers	brown/white (L), brown/orange (H)	+	wiper motor or TIPM, brown 40 pin plug (C5), pins 12 and 11
Left Front Window (Up/Down)	orange/lt. green - orange/white (base models)	A	driver window switch, 14 pin plug, pins 10 and 9
Right Front Window (Up/Down)	orange/tan - orange/gray (base models)	A	driver kick, door harness
Left Rear Window (Up/Down)	orange/white - orange/gray (base models)	A	driver kick, door harness
Right Rear Window (Up/Down)	orange/lt. blue - orange/dk. blue (base models)	A	driver kick, door harness
Sun Roof (Open/Close)	org/tan - org/lt. blue (function with ign on only)	-	sunroof switch, black 4 pin plug, pins 4 and 3
Sun Roof (Limit/Close)	N/A		
Memory Seat 1	purple/brown	- resistor	memory switch or Driver Door Module, black 10 pin plug, pin 6
Memory Seat 2	same as memory seat 1	- resistor	
Memory Seat 3	N/A		
Radio 12V	yellow/red	+	radio, gray 22 pin plug, pin 1
Radio Ground	black	-	radio, gray 22 pin plug, pin 12
Radio Ignition	(CAN IHS BUS)		
Radio Illumination	(CAN IHS BUS)		
Factory Amp Turn-on	(CAN IHS BUS)		
Power Antenna	N/A		
Left Front Speaker (+/-)	gray/purple - gray/yellow	+,-	radio, gray 22 pin plug, pins 21 and 22
Right Front Speaker (+/-)	dk. green/purple - dk. green/yellow	+,-	radio, gray 22 pin plug, pins 19 and 20
Left Rear Speaker (+/-)	dk. green/tan - dk. green/gray	+,-	radio, gray 22 pin plug, pins 8 and 9
Right Rear Speaker (+/-)	dk. green/brown - yellow/gray	+,-	radio, gray 22 pin plug, pins 10 and 11
Center Channel (+/-)	gray/brown - gray/orange	+,-	amplifier, white 22 pin plug, pins 11 and 22
Subwoofer (+/-)	gry/brn - dk grn/brn (1); gry/wht - dk grn/wht (2)	+,-	amplifier, black 16 pin plug, pins 14 and 6; 3 and 11
Aux. Audio Input Left (+/-)	gray/lt. green - gray/dk. green	+,-	auxiliary AV port, white 8 pin plug, pins 1 and 3
Aux. Audio Input Right (+/-)	dk. green/lt. blue - gray/dk. green	+,-	auxiliary AV port, white 8 pin plug, pins 2 and 3
RSE Video (+/-)	gry/org - gry/lt blu (1); gry/org - gry/lt blu (2)	+,-	radio, white 22 pin plug, pins 6 and 7; 9 and 10

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RSE Audio Left (+/-)	see notes		
RSE Audio Right (+/-)	see RSE audio left		
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		

What Fits

Item	Size	Depth	Location
Headunit	double DIN		center of dash
Left Front Speaker	6 x 9		left front door
Left Front Tweeter			left front dash
Right Front Speaker	6 x 9		right front door
Right Front Tweeter			right front dash
Left Rear Speaker	6 x 9		left rear quarter panel
Left Rear Tweeter			left rear pillar
Right Rear Speaker	6 x 9		right rear quarter panel
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
Trunk Hatch/Release	The PLM (Power Liftgate Module) is in the left rear quarter panel.
Turn Signal (Left)	The TIPM (Totally Integrated Power Module) is in the engine compartment, on the driver side.
Turn Signal (Right)	The TIPM (Totally Integrated Power Module) is in the engine compartment, on the driver side.
Horn Trigger	The TIPM (Totally Integrated Power Module) is in the engine compartment, on the driver side.
Wipers	The TIPM (Totally Integrated Power Module) is in the engine compartment, on the driver side.
Center Channel (+/-)	If equipped, the amplifier is in the left rear quarter panel.
Subwoofer (+/-)	If equipped, the amplifier is in the left rear quarter panel.
Starter	The TIPM (Totally Integrated Power Module) is in the engine compartment, on the driver side. Interface module is required for remote start.
Ignition	The Wireless Ignition Node is part of the ignition switch.
Can Bus High	The Wireless Ignition Node is part of the ignition switch. The CAN IHS BUS high is white/gray in the driver kick, harness to rear.
Can Bus Low	The Wireless Ignition Node is part of the ignition switch. The CAN IHS BUS low is white/orange in the driver kick, harness to rear.
Speed Sense	The PCM (Powertrain Control Module) is in the engine compartment, on the driver side.
Left Front Window (Up/Down)	Except base models, use orange/lt. green - orange/white at the Driver Door Module, red 5 pin plug, pins 4 and 5.
Right Front Window (Up/Down)	Except base models, use orange/brown - orange/purple at the Passenger Door Module, red 5 pin plug, pins 4 and 5.
Left Rear Window (Up/Down)	Except base models, use tan/yellow - tan/lt. blue at the Left Rear Door Module, lt. gray 10 pin plug, pins 10 and 9.
Right Rear Window (Up/Down)	Except base models, use orange/brown - orange/purple at the Right Rear Door Module, lt. gray 10 pin plug, pins 10 and 9.
RSE Audio Left (+/-)	Audio 1: dk. green/tan (left), dk. green/white (right), gray/purple (common) at radio, white 22 pin plug, pins 18, 20, and 19. Audio 2: dk. green/lt. blue (left), dk. green/dk. blue (right), gray/orange (common) at radio, white 22 pin plug, pins 21, 22, and 12. Audio 3: dk. green/purple (left), dk. green/yellow (right), gray/lt. blue (common) at radio, white 22 pin plug, pins 13, 14, and 1.
Left Front Speaker (+/-)	If equipped, the amplifier is in the left rear quarter panel. On vehicles with amplifier, the door speaker wires are gray/purple - gray/yellow at the amplifier, black 16 pin plug, pins 8 and 16. The dash speaker wires are gray/orange - gray/yellow at the amplifier, white 22 pin plug, pins 20 and 9.
Right Front Speaker (+/-)	If equipped, the amplifier is in the left rear quarter panel. On vehicles with amplifier, the door speaker wires are dk. green/purple - dk. green/yellow at the amplifier, black 16 pin plug, pins 7 and 15. The dash speaker wires are gray/dk. green - gray/lt. green at the amplifier, white 22 pin plug, pins 19 and 8.
Left Rear Speaker (+/-)	If equipped, the amplifier is in the left rear quarter panel. On vehicles with amplifier, the quarter panel speaker wires are dk. green/tan - dk. green/gray at the amplifier, black 16 pin plug, pins 13 and 5. The rear pillar speaker wires are dk. green/dk. blue - dk. green/tan at the amplifier, white 22 pin plug, pins 10 and 21.
Right Rear Speaker (+/-)	If equipped, the amplifier is in the left rear quarter panel. On vehicles with amplifier, the quarter panel speaker wires are dk. green/brown - yellow/gray at the amplifier, black 16 pin plug, pins 4 and 12. The rear pillar speaker wires are gray/dk. blue - gray/tan at the amplifier, black 16 pin plug, pins 10 and 2.
12 Volts	The TIPM (Totally Integrated Power Module) is in the engine compartment, on the driver side.
Brake Wire	The Wireless Ignition Node is part of the ignition switch.
Power Lock	Except base models, use lt. green/white at the passenger door lock switch or the Passenger Door Module, black 10 pin plug, pin 4.
Hood Pin	The TIPM (Totally Integrated Power Module) is in the engine compartment, on the driver side.
Second 12 Volts	The Wireless Ignition Node is part of the ignition switch.