

## 2012 Volkswagen Passat



### Wiring Information

Item	Wire Color	Polarity	Wire Location
<b>12 Volts</b>	red (40A)	+	VESCM, black 52 pin plug, pin 1
<b>Second 12 Volts</b>	red/yellow (40A)	+	VESCM, brown 52 pin plug, pin 42
<b>Starter</b>	red/black	+	VESCM, brown 52 pin plug, pin 14
<b>Second Starter</b>	pur/yel (sw1), pur/blk (sw2) (push-button start)	- resistor	start system button, 4 pin plug, pins 3 and 4
<b>Ignition</b>	black	+	VESCM, brown 52 pin plug, pin 31
<b>Second Ignition</b>	red/blue (some models only)	+	VESCM, white 52 pin plug, pin 14
<b>Third Ignition</b>	N/A		
<b>Accessory</b>	black/purple (for accessory sense only)	+	VESCM, white 52 pin plug, pin 28
<b>Second Accessory</b>	N/A		
<b>Third Accessory</b>	N/A		
<b>Key Sense</b>	purple/red (some models only)	+	VESCM, brown 52 pin plug, pin 13
<b>Data Bus</b>	N/A		
<b>Can Bus High</b>	orange/green	data	VESCM, brown 52 pin plug, pin 15
<b>Can Bus Low</b>	orange/brown	data	VESCM, brown 52 pin plug, pin 16
<b>Can Bus Sw</b>	N/A		
<b>Power Lock</b>	brown/green	-	Driver Door Module, 32 pin plug, pin 32
<b>Power Unlock</b>	same as power lock	- 180 ohms	
<b>Lock Motor</b>	blue/green	5 wire	VESCM, white 52 pin plug, pin 7
<b>Unlock Motor</b>	purple	5 wire	Driver Door Module, 20 pin plug, pin 12
<b>Disarm Defeat</b>	brown/yellow	5 wire	VESCM, white 52 pin plug, pin 8
<b>Parking Lights (+)</b>	gray/yellow	+	VESCM, black 52 pin plug, pin 19
<b>Parking Lights (-)</b>	N/A		
<b>Hazards</b>	brown/red	-	VESCM, brown 52 pin plug, pin 7
<b>Turn Signal (Left)</b>	gray/white (F); black/white (R)	+	VESCM, black 52 pin plug, pin 10; brown 52 pin plug, pin 51
<b>Turn Signal (Right)</b>	gray/brown (F); black/red (R)	+	VESCM, brown 52 pin plug, pin 50; black 52 pin plug, pin 9

## Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
<b>Headlight</b>	white/black	+	VESCM, black 52 pin plug, pin 22
<b>AutoLights</b>	purple (interrupt to turn off autolights)	+	VESCM, black 52 pin plug, pin 20
<b>Reverse Light</b>	blue/purple	+	VESCM, black 52 pin plug, pin 28
<b>Left Front Door Trigger</b>	brown/yellow	-	Driver Door Module, 20 pin plug, pin 7
<b>Right Front Door Trigger</b>	brown/yellow	-	Passenger Door Module, 20 pin plug, pin 7
<b>Left Rear Door Trigger</b>	black/gray	-	VESCM, black 52 pin plug, pin 41
<b>Right Rear Door Trigger</b>	black/green	-	VESCM, black 52 pin plug, pin 30
<b>Dome Supervision</b>	red/white	-	VESCM, brown 52 pin plug, pin 10
<b>Trunk/Hatch Pin</b>	brown/blue or brown/black	-	VESCM, black 52 pin plug, pin 29
<b>Rear Glass Pin</b>	N/A		
<b>Hood Pin</b>	brown/green	-	VESCM, black 52 pin plug, pin 14
<b>Trunk Hatch/Release</b>	purple (rear handle switch)	-	VESCM, black 52 pin plug, pin 13
<b>Trunk Release Motor</b>	red/blue	5 wire	VESCM, white 52 pin plug, pin 11
<b>Fuel Door Release</b>	locks/unlocks along with doors		
<b>Power Sliding Door (Left)</b>	N/A		
<b>Power Sliding Door (Right)</b>	N/A		
<b>Factory Alarm Arm</b>	green/white (driver door key lock)	-	Driver Door Module, 20 pin plug, pin 16
<b>Factory Alarm Disarm</b>	same as factory alarm arm	- 180 ohms	
<b>Disarm No Unlock</b>	Transponder and ignition		
<b>Trunk Alarm Shunt</b>	N/A		
<b>Tachometer</b>	purple/stripe (2.5L), brown/stripe (3.6L, 2.0L)	ac	any fuel injector, 2 pin plug, pin 2
<b>Wait to Start</b>	N/A		
<b>Neutral Safety</b>	N/A		
<b>Clutch Pedal</b>	purple/white	-	VESCM, brown 52 pin plug, pin 30
<b>Fuel Pump</b>	red/white (2.5L), blue/red (2.0L diesel)	+	fuel pump relay on upper VESCM
<b>Rear Defroster</b>	black/green	- latched	VESCM, white 52 pin plug, pin 22
<b>Mirror Defroster</b>	yellow	-	Driver Door Module, 32 pin plug, pin 28
<b>Left Front Heated Seat</b>	(CAN and LIN bus)		
<b>Right Front Heated Seat</b>	(CAN and LIN bus)		

## Wiring Information (Continued)

Item	Wire Color	Polarity	Wire Location
<b>Speed Sense</b>	(wheel speed sensor)		
<b>Brake Wire</b>	black/red (functions with ignition on only)	+	VESCM, brown 52 pin plug, pin 17
<b>Parking Brake</b>	brown/yellow	-	parking brake switch, 2 pin plug, pin 1
<b>Horn Trigger</b>	red/brown	-	VESCM, white 52 pin plug, pin 41
<b>Wipers</b>	white/red	-	VESCM, white 52 pin plug, pin 23
<b>Left Front Window (Up/Down)</b>	use factory alarm arm/disarm		
<b>Right Front Window (Up/Down)</b>	see left front window		
<b>Left Rear Window (Up/Down)</b>	see left front window		
<b>Right Rear Window (Up/Down)</b>	see left front window		
<b>Sun Roof (Open/Close)</b>	white/purple (tilt up/down) (func w/ign on only)	- resistor	sunroof switch, 4 pin plug, pin 4
<b>Sun Roof (Limit/Close)</b>	N/A		
<b>Memory Seat 1</b>	red/black	- resistor	memory switch or Driver Seat Module, 32 pin plug, pin 12
<b>Memory Seat 2</b>	same as memory seat 1	- resistor	
<b>Memory Seat 3</b>	yellow/black	- resistor	memory switch or Driver Seat Module, 32 pin plug, pin 28
<b>Radio 12V</b>	red/yellow	+	radio, 16 pin plug, pins 15 and 16
<b>Radio Ground</b>	brown	-	radio, 16 pin plug, pin 12
<b>Radio Ignition</b>	(Infotainment CAN)		
<b>Radio Illumination</b>	(Infotainment CAN)		
<b>Factory Amp Turn-on</b>	(Infotainment CAN)		
<b>Power Antenna</b>	N/A		
<b>Left Front Speaker (+/-)</b>	brown/green - brown/blue or green - brown	+,-	radio, 8 pin plug, pins 3 and 7
<b>Right Front Speaker (+/-)</b>	brown/red - brown/black or blue - brown	+,-	radio, 8 pin plug, pins 2 and 6
<b>Left Rear Speaker (+/-)</b>	red/white - brown/white or white - brown	+,-	radio, 8 pin plug, pins 4 and 8
<b>Right Rear Speaker (+/-)</b>	red/purple - brown/purple or yellow - brown	+,-	radio, 8 pin plug, pins 1 and 5
<b>Center Channel (+/-)</b>	N/A		
<b>Subwoofer (+/-)</b>	white/red - brown/red (1); gray/red - gray/brn (2)	+,-	amplifier, 38 pin plug, pins 16 and 4; 5 and 17
<b>Aux. Audio Input Left (+/-)</b>	yellow - green	+,-	radio, 12 pin plug, pins 1 and 2
<b>Aux. Audio Input Right (+/-)</b>	gray - green	+,-	radio, 12 pin plug, pins 7 and 2
<b>RSE Video (+/-)</b>	N/A		
<b>RSE Audio Left (+/-)</b>	N/A		
<b>RSE Audio Right (+/-)</b>	N/A		

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DirectWire Vehicle Information - 5/23/2012 4:53:13 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
<b>Headunit</b>	irregular		
<b>Left Front Speaker</b>	6.5	3.5	left front door
<b>Left Front Tweeter</b>	1	1	left front dash
<b>Right Front Speaker</b>	6.5	3.5	right front door
<b>Right Front Tweeter</b>	1	1	right front dash
<b>Left Rear Speaker</b>	6.5	3.5	left rear door
<b>Left Rear Tweeter</b>	1	1	left rear door
<b>Right Rear Speaker</b>	6.5	3.5	right rear door
<b>Right Rear Tweeter</b>	1	1	right rear door
<b>Center Channel</b>	N/A		
<b>Subwoofer</b>			under rear deck
<b>Left Front Headrest</b>			
<b>Right Front Headrest</b>			
<b>Left Right Headrest</b>			
<b>Right Rear Headrest</b>			
<b>Satellite Radio Tuner</b>	(built into radio)		

*Additional Wiring Notes*

Item	Note
<b>Key Sense</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Accessory</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>12 Volts</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Second 12 Volts</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Wipers</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Turn Signal (Left)</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Turn Signal (Right)</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Parking Lights (+)</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Headlight</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>AutoLights</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Reverse Light</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Trunk Hatch/Release</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Trunk/Hatch Pin</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Trunk Release Motor</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Brake Wire</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Starter</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Ignition</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Hood Pin</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Rear Defroster</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Horn Trigger</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Dome Supervision</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Hazards</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Can Bus High</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Can Bus Low</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Fuel Pump</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash. On 3.6L models, it is black/green (+) in the driver kick, harness to rear.
<b>Clutch Pedal</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Left Front Speaker (+/-)</b>	If equipped, the amplifier is under the driver seat. On vehicles with amplifier, the speaker wires are brown/green - brown/blue (woofer); blue/black - white/black (midrange); white - white/black (tweeter) at the amplifier, 38 pin plug, pins 18 and 6; 13 and 14; 8 and 20.
<b>Right Front Speaker (+/-)</b>	If equipped, the amplifier is under the driver seat. On vehicles with amplifier, the speaker wires are brown/red - brown/black (woofer); red/gray - brown/gray (midrange); gray - gray/black (tweeter) at the amplifier, 38 pin plug, pins 15 and 3; 12 and 11; 19 and 7.
<b>Subwoofer (+/-)</b>	If equipped, the amplifier is under the driver seat.
<b>Left Rear Speaker (+/-)</b>	If equipped, the amplifier is under the driver seat. On vehicles with amplifier, the speaker wires are red/white - brown/white at the amplifier, 38 pin plug, pins 9 and 21.
<b>Right Rear Speaker (+/-)</b>	If equipped, the amplifier is under the driver seat. On vehicles with amplifier, the speaker wires are red/purple - brown/purple at the amplifier, 38 pin plug, pins 22 and 10.
<b>Second Ignition</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Left Rear Door Trigger</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Right Rear Door Trigger</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Lock Motor</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.
<b>Passenger Unlock Motor</b>	The VESCM (Vehicle Electrical System Control Module) is the relay box under the driver dash.