2017 Volkswagen Passat (Smart Key) - North America

Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red/yellow (40A)	+	VESCM under driver dash, brown 52 pin plug, pin 42
Starter	red/black	+	Electronic Steering Column Lock Module, black 16 pin plug, pin 12
Ignition	black	+	Electronic Steering Column Lock Module, black 16 pin plug, pin 8
Accessory	black/purple (for accessory sense only)	+	VESCM under dr dash, wht 52 pin plug, pin 28 or blk 52 pin plg, pin 3
PTS 1	purple/yellow	-	Electronic Steering Column Lock Module, black 16 pin plug, pin 13
PTS 2	purple/black	-	Electronic Steering Column Lock Module, black 16 pin plug, pin 4
Keysense	purple/red	+	Electronic Steering Column Lock Module, black 16 pin plug, pin 7
CAN Bus High	orange/black	data	data link connector, black 16 pin plug, pin 6
CAN Bus Low	orange/brown	data	data link connector, black 16 pin plug, pin 14
CAN Bus High 2	orange/green	data	Electronic Steering Column Lock Module, black 16 pin plug, pin 16
CAN Bus Low 2	orange/brown	data	Electronic Steering Column Lock Module, black 16 pin plug, pin 15
IMMO Antenna	blue	RF	Immobilizer Reader Coil in steering column, 2 pin plug, pin 1
Power Lock	brown/green	-	Driver Door Module, gray 32 pin plug, pin 32
Power Unlock	(same as power lock)	- 180 ohms	
Lock Motor	blue/green (only for arm on OEM sec upgrade)	5 wire	VESCM under driver dash, white 52 pin plug, pin 7
Driver Unlock Motor	purple/gray (only for disarm on OEM sec upgrade)	5 wire	VESCM under driver dash, white 52 pin plug, pin 5
Passenger Unlock Motor	brown/yellow (only for defeat on OEM sec upgrade)	5 wire	VESCM under driver dash, white 52 pin plug, pin 8
Factory Alarm Arm	green/white (driver door key lock)	-	Driver Door Module, black 20 pin plug, pin 16

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Factory Alarm Disarm	(same as factory alarm arm)	- 180 ohms	
Disarm No Unlock	(transponder and ignition)		
Parking Lights (+)	gray/yellow	+	headlight switch, black 10 pin plug, pin 3
Parking Lights Interrupt	red/green	cut	headlight switch, black 10 pin plug, pin 8
Hazards	brown/red	-	VESCM under driver dash, brown 52 pin plug, pin 7
Turn Signal (Left)	gray/white (F); black/white (R)	+	VESCM, black 52 pin plug, pin 10; brown 52 pin plug, pin 51 or 4
Turn Signal (Right)	gray/brown (F); black/red (R)	+	VESCM, brown 52 pin plug, pin 50; black 52 pin plug, pin 9 or 26
Headlight	white/black	+	VESCM under driver dash, black 52 pin plug, pin 22
AutoLights	purple (interrupt to turn off)	+	VESCM under driver dash, black 52 pin plug, pin 20
Reverse Light	blue/purple	+	VESCM under driver dash, black 52 pin plug, pin 28
Left Front Door Trigger	brown/yellow	-	Driver Door Module, black 20 pin plug, pin 7
Right Front Door Trigger	brown/yellow	-	Passenger Door Module, black 20 pin plug, pin 7
Left Rear Door Trigger	black/gray	-	VESCM under driver dash, black 52 pin plug, pin 41
Right Rear Door Trigger	black/green	-	VESCM under driver dash, black 52 pin plug, pin 30
Dome Light	red/white or red/blue	-	VESCM under driver dash, brown 52 pin plug, pin 10
Trunk/Hatch Pin	brown/blue or brown/black	-	VESCM under driver dash, black 52 pin plug, pin 29
Hood Pin	brown/green	-	VESCM under driver dash, black 52 pin plug, pin 14
Trunk/Hatch Release	purple (rear handle switch)	-	VESCM under driver dash, black 52 pin plug, pin 13
Trunk Release Motor	red/blue	5 wire	VESCM under driver dash, white 52 pin plug, pin 11

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Fuel Door Release	(locks/unlocks along with doors)		
Tachometer	purple/stripe (2.5L); brn/stripe (1.8L, 3.6L, TDI)	ac	any fuel injector, 2 pin plug, pin 2
Clutch Pedal	purple/white	-	VESCM under driver dash, brown 52 pin plug, pin 30
Fuel Pump	rd/bk or bu/rd (2.5,TDI); bk/rd or bk/gn (1.8,3.6)	+	fuel pump relay on upper VESCM; driver kick
Rear Defroster	black/green	- latched	VESCM under driver dash, white 52 pin plug, pin 22
Mirror Defroster	yellow	-	Driver Door Module, gray 32 pin plug, pin 28
Left Front Heated Seat	(CAN and LIN bus)		
Right Front Heated Seat	(CAN and LIN bus)		
Speed Sense	(wheel speed sensor)		
Brake Wire	black/red (functions with ignition on only)	+	VESCM under driver dash, brown 52 pin plug, pin 17
Parking Brake	brown/yellow	-	parking brake switch, black 2 pin plug, pin 1
Horn Trigger	red/brown	-	VESCM under driver dash, white 52 pin plug, pin 41
Wipers	white/red	-	VESCM under driver dash, white 52 pin plug, pin 23
Left Front Window (Up/Down)	(use factory alarm arm/disarm)		
Right Front Window (Up/Down)	(see left front window)		
Left Rear Window (Up/Down)	(see left front window)		
Right Rear Window (Up/Down)	(see left front window)		
Sun Roof (Open/Close)	white/purple (tilt up/down) (func w/ign on only)	- resistor	sunroof switch, 4 pin plug, pin 4
Memory Seat 1	red/black	- resistor	memory switch or Driver Seat Module, 32 pin plug, pin 12
Memory Seat 2	(same as memory seat 1)	- resistor	
Memory Seat 3	yellow/black	- resistor	memory switch or Driver Seat Module, 32 pin plug, pin 28
Radio 12V	red/yellow	+	radio, black 16 pin plug, pins 15, 16

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Radio Ground	brown	-	radio, black 16 pin plug, pin 12
Radio Ignition	(Infotainment CAN)		
Radio Illumination	(Infotainment CAN)		
Factory Amp Turn-on	(Infotainment CAN)		
Left Front Speaker (+/-)	brown/green - brown/blue or green - green/black	+,-	radio, brown 8 pin plug, pins 3 - 7
Right Front Speaker (+/-)	brown/red - brown/black or blue - gray	+,-	radio, brown 8 pin plug, pins 2 - 6
Left Rear Speaker (+/-)	red/white - brown/white or white - brown	+,-	radio, brown 8 pin plug, pins 4 - 8
Right Rear Speaker (+/-)	red/purple - brown/purple or yellow - black	+,-	radio, brown 8 pin plug, pins 1 - 5
Subwoofer (+/-)	white/red - brown/red (1); gray/red - gray/brn (2)	+,-	amplifier under driver seat, 38 pin plug, pins 16 - 4; 5 - 17
Aux. Audio Input Left (+/-)	yellow - green	+,-	radio, blue 12 pin plug, pins 1 - 2
Aux. Audio Input Right (+/-)	gray - green	+,-	radio, blue 12 pin plug, pins 7 - 2
Satellite Radio 12 Volts	(built into radio)		

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What Fits

Item	Size	Depth	Location
Headunit	irregular		
Left Front Speaker	6.5	3.5	left front door
Left Front Tweeter	1	1	left front dash
Right Front Speaker	6.5	3.5	right front door
Right Front Tweeter	1	1	right front dash
Left Rear Speaker	6.5	3.5	left rear door
Left Rear Tweeter	1	1	left rear door
Right Rear Speaker	6.5	3.5	right rear door
Right Rear Tweeter	1	1	right rear door
Subwoofer			under rear deck
Satellite Radio Tuner	(built into radio)		

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Additional Wiring Notes

Item	Note
Left Front Speaker (+/-)	On models with amplifier, the speaker wires are brown/green - brown/blue (woofer); blue/black - white/black (midrange); white - white/black (tweeter) at the amplifier under driver seat, 38 pin plug, pins 18 - 6; 13 - 14; 8 - 20.
Left Rear Speaker (+/-)	On models with amplifier, the speaker wires are red/white - brown/white at the amplifier under driver seat, 38 pin plug, pins 9 - 21.
Right Front Speaker (+/-)	On models with amplifier, the speaker wires are brown/red - brown/black (woofer); red/gray - brown/gray (midrange); gray - gray/black (tweeter) at the amplifier under driver seat, 38 pin plug, pins 15 - 3; 12 - 11; 19 - 7.
Right Rear Speaker (+/-)	On models with amplifier, the speaker wires are red/purple - brown/purple at the amplifier under driver seat, 38 pin plug, pins 22 - 10.