

2019 Volkswagen Arteon (Smart Key) - North America

Item	Wire Color	Polarity	Wire Location
12 Volts	Red/White (40A)	+	VESCM above driver kick, white 73 pin plug, pin 1
Ground	(chassis ground)		
Starter Kill	Red	+	Driver Fender Fuse Carrier, fuse panel B, fuse SB23 (30A)
Starter	Black/Red	+	Driver Kick, blue 17 pin plug, pin 5
Ignition	Black	+	VESCM above driver kick, black 73 pin plug, pin 47
Second Ignition	Black/Gray	+	VESCM above driver kick, black 73 pin plug, pin 44
PTS 1	Violet	-	Start Stop Button, black 6 pin plug, pin 3
PTS 2	Violet/Blue	-	Start Stop Button, black 6 pin plug, pin 6
Keysense	Blue/Green	+	VESCM above driver kick, black 73 pin plug, pin 54
CAN Bus High	Orange/Red	Data	OBD-Data Link Connector, black 16 pin plug, pin 6
CAN Bus Low	Orange/Brown	Data	OBD-Data Link Connector, black 16 pin plug, pin 14
CAN Bus High 2	Orange/Green	Data	VESCM above driver kick, black 73 pin plug, pin 16
CAN Bus Low 2	Orange/Brown	Data	VESCM above driver kick, black 73 pin plug, pin 17
CAN Bus High 3	Orange/Green	Data	Electronic Steering Column Lock Module, black 4 pin plug, pin 1
CAN Bus Low 3	Orange/Brown	Data	Electronic Steering Column Lock Module, black 4 pin plug, pin 2
OBD 12 Volts	Red/White (7.5A)	+	OBD-Data Link Connector, black 16 pin plug, pin 16
OBD Ground	Brown	-	OBD-Data Link Connector, black 16 pin plug, pin 4
OBD Ignition	Black/Blue	+	OBD-Data Link Connector, black 16 pin plug, pin 1
OBD Connector	Black-Violet		Under Driver Dash, Above Driver Kick
IMMO Antenna	Blue	RF	Immobilizer Reader Coil in steering column, black 2 pin plug, pin 1
Power Lock	Brown/Green	- Resistor	Driver Door Module, blue 32 pin plug, pin 28
Power Unlock	(same as power lock)	-	
Lock Motor	White	Reverse	Driver Door Module, black 20 pin plug, pin 13
Driver Unlock Motor	White	Reverse	Driver Door Module, black 20 pin plug, pin 11
Passenger Unlock Motor	White	Reverse	Passenger Door Module, black 20 pin plug, pin 11
Factory Alarm Arm	White (key lock)	- Resistor	Driver Door Module, black 20 pin plug, pin 1
Factory Alarm Disarm	(same as factory alarm arm)	-	
Parking Lights	(front is CAN); Green/Gray (front side markers, USA only)	+	VESCM above driver kick, black 73 pin plug, pin 72
Parking Lights 2	White (LR); White (RR)	+	VESCM above driver kick, white 73 pin plug, pin 10 (LR); black 73 pin plug, pin 65 (RR)
Parking Lights - Hazards	(LIN) Violet/Yellow	-	VESCM above driver kick, white 73 pin plug, pin 42
Turn Signal (Left)	(front is CAN); Black/White (LR)	+	VESCM above driver kick, black 73 pin plug, pin 60 (LR)
Turn Signal (Right)	(front is CAN); Black/Green (RR)	+	VESCM above driver kick, white 73 pin plug, pin 31 (RR)
Headlight	Yellow/Black (L); Yellow/Blue (R)	+	VESCM above driver kick, white 73 pin plug, pin 5 (L); white 46 pin plug, pin 1 (R)
Reverse Light	Green/Black	+	VESCM above driver kick, white 73 pin plug, pin 11
Left Front Door Trigger	White	-	Driver Door Module, black 20 pin plug, pin 5
Right Front Door Trigger	White	-	Passenger Door Module, black 20 pin plug, pin 5
Left Rear Door Trigger	White	-	Left Rear Door Module, black 20 pin plug, pin 5
Right Rear Door Trigger	White	-	Right Rear Door Module, black 20 pin plug, pin 5
Dome Light	Red/Violet		VESCM above driver kick, white 73 pin plug, pin 67

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Trunk/Hatch Pin	Brown/Blue	-	VESCM above driver kick, black 73 pin plug, pin 52
Hood Pin	Brown/Green	-	VESCM above driver kick, white 46 pin plug, pin 14
Trunk/Hatch Release	Violet (rear handle switch)	-	VESCM above driver kick, black 73 pin plug, pin 32
Trunk-Hatch Release2	Yellow/Black (door switch)	-	Driver Door Module, blue 32 pin plug, pin 23
Trunk Release Motor	Red/Blue	Reverse	VESCM above driver kick, black 73 pin plug, pin 9
Fuel Door Release	Violet/Gray - Violet/Brown (lock/unlock)	Reverse	VESCM above driver kick, black 73 pin plug, pins 4 - 3
Tachometer	Blue/Gray (2.0L)	AC	Camshaft Position Sensor, engine driver side front, black 3 pin plug, pin 2
Fuel Pump	Red/Blue	+	Driver Kick, blue 17 pin plug, pin 15
Rear Defroster	Black/Green	- Latched	VESCM above driver kick, white 73 pin plug, pin 24
Wiper Deicer	Green/Red	- Latched	VESCM above driver kick, white 46 pin plug, pin 26
Left Front Heated Seat	(CAN)		
Right Front Heated Seat	(CAN)		
Heated Steering Wheel	Violet	-	VESCM above driver kick, white 73 pin plug, pin 59
Speed Sense	(wheel speed sensor)		
Brake Wire	Black/Red	+	Driver Kick, blue 17 pin plug, pin 7
Parking Brake	Violet/Green (EPB indicator)	-	Passenger Kick, black 17 pin plug, pin 8
Horn Trigger	Red/Brown	-	VESCM above driver kick, white 46 pin plug, pin 24
Horn - Factory Alarm	(LIN); Gray/Yellow (USA only)	+	VESCM above driver kick, white 46 pin plug, pin 40
Wipers	(LIN)		
All Windows Up-Down	(use factory alarm arm/disarm)		
Sun Roof (Open/Close)	(use factory alarm arm/disarm)		
Memory Seat 1	Red/Black	- Resistor	Memory Seat Switch, black 6 pin plug, pin 5
Memory Seat 2	(same as memory seat 1)	- Resistor	
Memory Seat 3	Yellow/Black	- Resistor	Memory Seat Switch, black 6 pin plug, pin 2
Radio 12V	Red	+	Radio in glove box, black 8 pin plug, pin 8
Radio Ground	Brown	-	Radio in glove box, black 8 pin plug, pin 7
Radio Ignition	(CAN)		
Factory Amp Turn-on	(MOST)		
Left Front Speaker (+/-)	Gray/White - Green/White	+,-	Radio in glove box, brown 8 pin plug, pins 3 - 7
Right Front Speaker (+/-)	White/Red - Blue/Red	+,-	Radio in glove box, brown 8 pin plug, pins 2 - 6
Left Rear Speaker (+/-)	Blue/Black - White/Black	+,-	Radio in glove box, brown 8 pin plug, pins 4 - 8
Right Rear Speaker (+/-)	Blue/White - Black/White	+,-	Radio in glove box, brown 8 pin plug, pins 1 - 5
Left Front Speaker - With Amp	Gray/Red - Gray/Brown (low); Red/Green - Brown/Green (mid)	+,-	Amplifier under driver seat, black 38 pin plug, pins 8 - 7 (low); pins 12 - 11 (mid)
Right Front Speaker - With Amp	Red/White - Brown/White (low); Red/Violet - Brown/Violet (mid)	+,-	Amplifier under driver seat, black 38 pin plug, pins 9 - 10 (low); pins 14 - 13 (mid)
Left Front Tweeter - With Amp	Red/Blue - Brown/Blue	+,-	Amplifier under driver seat, black 38 pin plug, pins 32 - 24
Right Front Tweeter - With Amp	Red/Yellow - Brown/Yellow	+,-	Amplifier under driver seat, black 38 pin plug, pins 31 - 23
Left Rear Speaker - With Amp	Green/Brown - Green/Red	+,-	Amplifier under driver seat, black 38 pin plug, pins 20 - 19
Right Rear Speaker - With Amp	Blue/Black - White/Black	+,-	Amplifier under driver seat, black 38 pin plug, pins 21 - 22
Left Rear Tweeter - With Amp	Gray/Yellow - Gray/Blue	+,-	Amplifier under driver seat, black 38 pin plug, pins 25 - 33
Right Rear Tweeter - With Amp	Violet/Yellow - Violet/Blue	+,-	Amplifier under driver seat, black 38 pin plug, pins 26 - 34

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Item	Wire Color	Polarity	Wire Location
Center Channel - With Amp	Gray - Gray/Black	+,-	Amplifier under driver seat, black 38 pin plug, pins 18 - 6
Subwoofer - With Amp	White/Yellow - Brown/Yellow (coil 1); White - Brown (coil 2)	+,-	Amplifier under driver seat, black 38 pin plug, pins 4 - 5 (coil 1); pins 17 - 16 (coil 2)
Aux. Audio Input Left (+/-)	Gray - Green	+,-	Radio in glove box, green 12 pin plug, pins 7 - 1
Aux. Audio Input Right (+/-)	Yellow - Green	+,-	Radio in glove box, green 12 pin plug, pins 2 - 1
Rearview Camera Video	White - Black	+,-	Radio in glove box, blue 12 pin plug, pins 6 - 12

Wiring Photo and Notes: PTS 1

Also found at the Access Start Module right of steering column, black 40 pin plug, pin 7.

Wiring Photo and Notes: PTS 2

Also found at the Access Start Module right of steering column, black 40 pin plug, pin 19.

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