

2016 Audi A5(SmartKeyw/PTS)

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Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red/yellow or red/green (30A)	+	VEBCM under driver dash, brown 17 pin plug, pin 16
Ground	(chassis ground)		
Starter	gray/blue; black/red; black/blue	-	electronic ignition switch, 16 pin plug, pins 13, 14, 6
Ignition	black/blue (for ignition sense only)	+	OBD-Data Link Connector, black 16 pin plug, pin 1
Accessory	white/violet (for accessory sense only)	+	cigarette lighter, 3 pin plug, pin 2
PTS 1	blue/yellow	-	start stop button, 4 pin plug, pin 3
PTS 2	blue/white	-	start stop button, 4 pin plug, pin 4
Keysense	black/yellow	-	electronic ignition switch, 16 pin plug, pin 5
Key Release	gray/yellow	+ or cut	electronic ignition switch, 16 pin plug, pin 15
Data Bus	IMMOBILIZER AND IGNITION INTERFACE REQUIRED FOR RS		
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	Driver Kick, door harness --or-- VEBCM under driver dash, brown 16 pin plug, pin 15
CAN Bus Low 2	Orange/Brown	Data	Driver Kick, door harness --or-- VEBCM under driver dash, brown 16 pin plug, pin 14
OBD 12 Volts	Red/Yellow (10A)	+	OBD-Data Link Connector, black 16 pin plug, pin 16
OBD Ground	Brown	-	OBD-Data Link Connector, black 16 pin plug, pin 4
Power Lock	violet/red	- resistor	Driver Door Module, 32 pin plug, pin 28
Power Unlock	(same as power lock)	- resistor	
Lock Motor	gray/green	5 wire	Driver Door Module, 20 pin plug, pin 13

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Driver Unlock Motor	brown/blue	5 wire	Driver Door Module, 20 pin plug, pin 11
Passenger Unlock Motor	brown/blue	5 wire	Passenger Door Module, 20 pin plug, pin 11
Factory Alarm Arm	blue (driver door key lock)	-	Driver Door Module, 20 pin plug, pin 1
Factory Alarm Disarm	(same as factory alarm arm)	- 250 ohms	
Disarm No Unlock	(see factory alarm disarm)		
Parking Lights	blue/yellow (LF); black/violet (RF)	+	VESCM under driver dash, brown 17 pin plug, pins 6, 4
Parking Lights -	(LIN bus)		
Hazards	red/yellow	-	VESCM under driver dash, gray 32 pin plug, pin 8
Turn Signal (Left)	black/white (F); gray/black (R)	+	VESCM, brown 17 pin plug, pin 5; Comfort System Module, brown 17 pin plug, pin 11
Turn Signal (Right)	black/blue (F); gray (R)	+	VESCM, red 17 pin plug, pin 10; Comfort System Module, black 17 pin plug, pin 10
Headlight	yellow/black (L); yellow or green/white (R)	+	VESCM under driver dash, brown 17 pin plug, pin 15; red 17 pin plug, pin 15
AutoLights	(LIN bus)		
Reverse Light	black	+	Comfort System Module in R side of trunk, brown 17 pin plug, pin 14
Left Front Door Trigger	gray/violet	-	Driver Door Module, 20 pin plug, pin 5
Right Front Door Trigger	gray/violet	-	Passenger Door Module, 20 pin plug, pin 5
Dome Light	blue	-	VESCM under driver dash, black 17 pin plug, pin 9
Trunk/Hatch Pin	green/yellow	-	Comfort System Module in R side of trunk, gray 32 pin plug, pin 4
Hood Pin	green/yellow	-	VESCM under driver dash, black 32 pin plug, pin 3
Trunk/Hatch Release	red	-	Driver Door Module, 32 pin plug, pin 23
Trunk Release Motor	green/red	5 wire	Comfort System Module in R side of trunk, black 17 pin plug, pin 5

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Item	Wire Color	Polarity	Wire Location
Fuel Door Release	(locks/unlocks along with doors)		
Tachometer	blue/gray	ac	Camshaft Position Sensor, engine driver side, 3 pin plug, pin 2
Clutch Pedal	blue/gray	-	clutch switch, 6 pin plug, pin 3
Fuel Pump	black/white	+	driver dash fuse panel, brn fuse carrier 2, pin 3A
Rear Defroster	white/red	+ latched	Comfort System Module in R side of trunk, black 32 pin plug, pin 4
Mirror Defroster	(CAN bus)		
Left Front Heated Seat	red/black (without ventilation)	5 wire	VEBCM under driver dash, green 6 pin plug, pin 1
Right Front Heated Seat	red/green (without ventilation)	5 wire	VEBCM under driver dash, green 6 pin plug, pin 6
Speed Sense	white/blue	ac	driver kick, brown 17 pin plug, pin 3
Brake Wire	red/black	+	brake switch, black 4 pin plug, pin 3
Parking Brake	gray/yellow	-	electric parking brake switch, 12 pin plug, pin 8
Horn Trigger	gray/yellow	+	VEBCM under driver dash, black 32 pin plug, pin 29
Wipers	(LIN bus)		
Left Front Window (Up/Down)	(use factory alarm arm/disarm)		
Right Front Window (Up/Down)	(see left front window)		
Sun Roof (Open/Close)	(use factory alarm arm/disarm)		
Memory Seat 1	gray/yellow	- resistor	Driver Door Module, 32 pin plug, pin 19
Memory Seat 2	(same as memory seat 1)	- resistor	
Radio 12V	red/green, white/red, or red/violet	+	radio, black 16 pin plug, pin 15 or black 10 pin plug, pin 10
Radio Ground	brown	-	radio, black 16 pin plug, pin 12 or black 10 pin plug, pin 9
Radio Ignition	(CAN bus)		
Radio Illumination	(CAN bus)		
Factory Amp Turn-on	(CAN bus)		

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Item	Wire Color	Polarity	Wire Location
Left Front Speaker (+/-)	red/blue - brown/blue	+,-	radio, brown 8 pin plug, pins 3 - 7
Right Front Speaker (+/-)	red/yellow - brown/yellow	+,-	radio, brown 8 pin plug, pins 2 - 6
Left Rear Speaker (+/-)	red/violet - brown/violet	+,-	radio, brown 8 pin plug, pins 4 - 8
Right Rear Speaker (+/-)	white/green - blue/green	+,-	radio, brown 8 pin plug, pins 1 - 5
Center Channel (+/-)	blue/white - black/white	+,-	radio, black 10 pin plug, pins 2 - 6
Subwoofer (+/-)	white/yellow - brown/yellow	+,-	radio, black 10 pin plug, pins 1 - 5
Aux. Audio Input Left (+/-)	yellow - gray or brown	+,-	radio, blue 12 pin plug, pins 1 - 2
Aux. Audio Input Right (+/-)	green - gray or brown	+,-	radio, blue 12 pin plug, pins 7 - 2
RSE Video (+/-)	(coaxial cable)		
RSE Audio Left (+/-)	(MOST bus)		
RSE Audio Right (+/-)	(MOST bus)		
Satellite Radio 12 Volts	(built into radio)		

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What Fits

Item	Size	Depth	Location
Headunit	irregular		center of dash
Left Front Speaker	6.5	2.3	left front door
Left Front Tweeter	0.75	0.5	left front door (tweeter); front dash (midrange)
Right Front Speaker	6.5	2.3	right front door
Right Front Tweeter	0.75	0.5	right front door (tweeter); front dash (midrange)
Left Rear Speaker	6.5	2	left rear side panel
Left Rear Tweeter	0.75 (tweeter); 2.5 (surround)	1; 1.5	left rear side panel (tweeter); rear deck (surr)
Right Rear Speaker	6.5	2	right rear side panel
Right Rear Tweeter	0.75 (tweeter); 2.5 (surround)	1; 1.5	right rear side panel (tweeter); rear deck (surr)
Center Channel	2.5	1.5	top center of dash
Subwoofer	6	3	center of rear deck
Satellite Radio Tuner	(built into radio)		

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Additional Wiring Notes

Item	Note
Center Channel (+/-)	On models with amplifier, the speaker wires are blue/white - black/white at the amplifier in L side of trunk, 32 pin plug, pins 8 - 20 (standard amp); 5 - 17 (premium amp).
Left Front Speaker (+/-)	On models with amplifier, the tweeter/midrange wires are red/blue - brown/blue at the amplifier in L side of trunk, 32 pin plug, pins 4 - 16 (standard amp); 6 - 18 (premium amp). The woofer wires are red/blue - brown/blue at the amplifier, 32 pin plug, pins 23 - 28 (premium amp).
Left Rear Speaker (+/-)	On models with amplifier, the speaker wires are red/purple - brown/purple at the amplifier in L side of trunk, 32 pin plug, pins 6 - 18 (standard amp); 3 - 15 (premium amp). The surround wires are red/gray - brown/gray at the amplifier, 32 pin plug, pins 8 - 20 (premium amp).
Parking Lights	The LR - RR are gray/yellow - gray/white (+) at the Comfort System Module in R side of trunk, brown 17 pin plug, pin 5; black 17 pin plug, pin 11.
Right Front Speaker (+/-)	On models with amplifier, the tweeter/midrange wires are red/yellow - brown/yellow at the amplifier in L side of trunk, 32 pin plug, pins 5 - 17 (standard amp); 7 - 19 (premium amp). The woofer wires are red/yellow - brown/yellow at the amplifier, 32 pin plug, pins 10 - 22 (premium amp).
Right Rear Speaker (+/-)	On models with amplifier, the speaker wires are white/green - blue/green at the amplifier in L side of trunk, 32 pin plug, pins 7 - 19 (standard amp); 4 - 16 (premium amp). The surround wires are red/gray - brown/gray at the amplifier, 32 pin plug, pins 9 - 21 (premium amp).
Subwoofer (+/-)	On models with amplifier, the speaker wires are white/yellow - brown/yellow or blue/yellow at the amplifier in L side of trunk, 32 pin plug, pins 3 - 15 (standard amp); 25 - 30 (premium amp).