

2019 Audi A7 (Smart Key) - North America			
Item	Wire Color	Polarity	Wire Location
12 Volts	Red/Gray (35A)	+	VESCM above driver kick, right black/white 73 pin plug, pin 1
Ground	(chassis ground)		
Starter Kill	Red/Black	+	Starter Relay under hood, on center of firewall
Ignition	Black/Violet	+	VESCM above driver kick, middle black 73 pin plug, pin 19
PTS 1	Brown/Red	-	Start Stop Button in center console, black 6 pin plug, pin 3
PTS 2	Yellow/Green	-	Start Stop Button in center console, black 6 pin plug, pin 6
PTS 3	White/Red	-	Start Stop Button in center console, black 6 pin plug, pin 5
CAN Bus High	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	Green	Data	VESCM above driver kick, right black/white 73 pin plug, pin 40
CAN Bus Low 2	Orange/Brown	Data	VESCM above driver kick, right black/white 73 pin plug, pin 41
CAN Bus High 3	Green	Data	Driver Kick, red 17 pin plug, pin 3
CAN Bus Low 3	Orange/Brown	Data	Driver Kick, red 17 pin plug, pin 7
OBD 12 Volts	Red (10A)	+	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	Yellow	+	OBD-Data Link Connector, black 16 pin plug, pin 1
IMMO Antenna	White	RF	Immobilizer Antenna in center console, behind parking brake button, black 2 pin plug, pin 1
Power Lock	Violet/Red	- Resistor	Driver Door Module, blue 32 pin plug, pin 28
Power Unlock	(same as power lock)	-	
Lock Motor	Blue/Brown	Reverse	Driver Door Module, white 20 pin plug, pin 13
Driver Unlock Motor	Brown/Green	Reverse	Driver Door Module, white 20 pin plug, pin 11
Passenger Unlock Motor	Brown/Green	Reverse	Passenger Door Module, white 20 pin plug, pin 11
Factory Alarm Arm	Violet/Yellow (key lock)	- Resistor	Driver Door Module, white 20 pin plug, pin 1
Factory Alarm Disarm	(same as factory alarm arm)	-	
Parking Lights	(CAN, LF/RF)		
Parking Lights 2	White/Gray (LR); Gray/black (RR)	+	Comfort System Module in trunk floor center front, brown 17 pin plug, pin 14 (LR); black 17 pin plug, pin 5 (RR)
Parking Lights - Hazards	(LIN)		
Turn Signal (Left)	(CAN, LF); Blue/Black (LR)	+	Comfort System Module in trunk floor center front, black 17 pin plug, pin 4 (LR)
Turn Signal (Right)	(CAN, RF) Black/Blue (RR)	+	Comfort System Module in trunk floor center front, brown 17 pin plug, pin 3 (RR)
Headlight	(CAN)		
AutoLights	(LIN)		
Reverse Light	Green/Black	+	Comfort System Module in trunk floor center front, brown 17 pin plug, pin 4
Left Front Door Trigger	White	-	Driver Door Module, white 20 pin plug, pin 5
Right Front Door Trigger	Brown/Gray	-	Passenger Door Module, white 20 pin plug, pin 5
Left Rear Door Trigger	Gray/Violet	-	Left Rear Door Module, white 20 pin plug, pin 5

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Right Rear Door Trigger	Gray/Violet	-	Right Rear Door Module, white 20 pin plug, pin 5
Dome Light	(LIN)		
Trunk/Hatch Pin	Yellow	-	Comfort System Module in trunk floor center front, blue 32 pin plug, pin 28
Hood Pin	Green/Red	-	VESCM above driver kick, middle black 73 pin plug, pin 31
Trunk/Hatch Release	Red/Gray or Red/Green	-	Driver Door Module, blue 32 pin plug, pin 23
Trunk-Hatch Release2	Red/Yellow (rear handle switch)	-	Comfort System Module in trunk floor center front, blue 32 pin plug, pin 30
Trunk Release Motor	Green/Red	Reverse	Comfort System Module in trunk floor center front, black 20 pin plug, pin 11
Fuel Door Release	Violet/Red (some models)	- Resistor	Driver Door Module, blue 32 pin plug, pin 28
Tachometer	Gray/Red (3.0L, 2.9L)	AC	Camshaft Position Sensor, engine driver side top front, black 3 pin plug, pin 2
Fuel Pump	Black/Yellow	+	Driver Kick Fuse Carrier, top black fuse panel, fuse SA16 (30A)
Rear Defroster	Yellow	+ Latched	Comfort System Module in trunk floor center front, black 32 pin plug, pin 32
Mirror Defroster	(CAN)		
Wiper Deicer	(LIN)		
Left Front Heated Seat	(CAN)		
Right Front Heated Seat	(CAN)		
Heated Steering Wheel	(inside steering wheel)		
Speed Sense	(wheel speed sensor)		
Brake Wire	Black	+	Brake Switch, black 4 pin plug, pin 3
Parking Brake	Green/Violet (EPB indicator)	-	Electric Parking Brake button, black 12 pin plug, pin 8
Horn Trigger	Violet/Red	Reverse	VESCM above driver kick, right black/white 73 pin plug, pin 5
Horn - Factory Alarm	(LIN)		
Wipers	(LIN)		
All Windows Up-Down	(use factory alarm arm/disarm)		
Sun Roof (Open/Close)	(use factory alarm arm/disarm)		
Memory Seat 1	Gray	- Resistor	Driver Door Module, blue 32 pin plug, pin 19
Memory Seat 2	(same as memory seat 1)	- Resistor	
Radio 12V	Red/Yellow	+	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	White/Violet	+	12V Socket/Cigarette Lighter, black 3 pin plug, pin 3
Radio Illumination	Gray/Blue	+	12V Socket/Cigarette Lighter, black 3 pin plug, pin 2
Factory Amp Turn-on	(MOST)		
Left Front Speaker (+/-)	White/Blue - Black/Blue	+,-	Radio in glove box, brown 8 pin plug, pins 3 - 7
Right Front Speaker (+/-)	Black/Red - Brown/Red	+,-	Radio in glove box, brown 8 pin plug, pins 2 - 6
Left Rear Speaker (+/-)	Gray - Gray/Black	+,-	Radio in glove box, brown 8 pin plug, pins 4 - 8
Right Rear Speaker (+/-)	Green - Green/Black	+,-	Radio in glove box, brown 8 pin plug, pins 1 - 5

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Center Channel (+/-)	White/Blue - Brown/Blue	+,-	Radio in glove box, black 8 pin plug, pins 2 - 6
Subwoofer (+/-)	Gray/Red - Gray/Brown	+,-	Radio in glove box, black 8 pin plug, pins 1 - 5
Left Front Speaker - With Amp	Red/Yellow - Brown/Yellow (bass); Red/Green - Brown/Green (midrange)	+,-	Amplifier in trunk left side, black 38 pin plug, pins 8 - 7 (bass); pins 12 - 11 (midrange)
Right Front Speaker - With Amp	Violet - Brown/Violet (bass); Red/Blue - Brown/Blue (midrange)	+,-	Amplifier in trunk left side, black 38 pin plug, pins 9 - 10 (bass); pins 14 - 13 (midrange)
Left Front Tweeter - With Amp	White/Yellow - White/Blue (treble); Yellow - Blue/Yellow (pillar midrange)	+,-	Amplifier in trunk left side, black 38 pin plug, pins 25 - 33 (treble); pins 31 - 23 (pillar midrange)
Right Front Tweeter - With Amp	Green - Green/Black (treble); Yellow/Violet - Blue/Violet (pillar midrange)	+,-	Amplifier in trunk left side, black 38 pin plug, pins 26 - 34 (treble); pins 32 - 24 (pillar midrange)
Left Rear Speaker - With Amp	Gray - Gray/Black	+,-	Amplifier in trunk left side, black 38 pin plug, pins 4 - 5
Right Rear Speaker - With Amp	Green - Green/Black	+,-	Amplifier in trunk left side, black 38 pin plug, pins 17 - 16
Left Rear Surround - With Amp	Yellow/Brown - Yellow/Red	+,-	Amplifier in trunk left side, black 38 pin plug, pins 35 - 27
Right Rear Surround - With Amp	Violet/Yellow - Violet/Blue	+,-	Amplifier in trunk left side, black 38 pin plug, pins 36 - 28
Center Channel - With Amp	Red/Blue - White/Blue	+,-	Amplifier in trunk left side, black 38 pin plug, pins 18 - 6
Subwoofer - With Amp	Yellow - White (coil 1); Green/Black - White/Black (coil 2)	+,-	Amplifier in trunk left side, black 38 pin plug, pins 20 - 19 (coil 1); pins 21 - 22 (coil 2)
Subwoofer - With Amp 2	Green/White - Gray/White (coil 1); Blue/Black - White/Black (coil 2) (alternate colors)	+,-	Amplifier in trunk left side, black 38 pin plug, pins 20 - 19 (coil 1); pins 21 - 22 (coil 2)
Rearview Camera Video	(no color available) - Black (w/o peripheral camera)	+,-	Radio in glove box, blue 12 pin plug, pins 6 - 12

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