

2016 Jeep Grand Cherokee (Smart Key) - North America

**Wiring Information**

Item	Wire Color	Polarity	Wire Location
12 Volts	red (40A)	+	BCM above passenger kick, black 4 pin plug (B), pin 3
Starter	lt. blue/tan (for starter kill only)	+	BCM above passenger kick, black 24 pin plug (A), pin 19
Ignition	pink/white (for ignition sense only)	+	BCM above passenger kick, black 48 pin plug (E), pin 27
Accessory	brown/orange (for accessory sense only)	+	BCM above passenger kick, black 48 pin plug (E), pin 36
PTS 1	purple/brown	+	Keyless Ignition Node (Start/Stop Button), black 6 pin plug, pin 4
CAN Bus High	gray/white (CAN C)	data	data link connector, black 16 pin plug, pin 6
CAN Bus Low	yellow (CAN C)	data	data link connector, black 16 pin plug, pin 14
CAN Bus High 2	gray (CAN IHS)	data	data link connector, black 16 pin plug, pin 3
CAN Bus Low 2	white (CAN IHS)	data	data link connector, black 16 pin plug, pin 11
IMMO Data	white/lt. green (Security K Line)	data	Keyless Ignition Node (Start/Stop Button), black 6 pin plug, pin 5
Power Lock	purple/lt. green (passenger door switch)	- 330 ohms	passenger window/door lock switch, green 10 pin plug, pin 8
Power Unlock	(same as power lock)	- 100 ohms	
Lock Motor	lt. green/dk. green	5 wire	BCM above passenger kick, white 48 pin plug (F), pin 2
Driver Unlock Motor	tan/lt. green	5 wire	BCM above passenger kick, white 48 pin plug (F), pin 1
Passenger Unlock Motor	purple/lt. green	5 wire	BCM above passenger kick, white 48 pin plug (F), pin 3
Factory Alarm Arm	(arms on lock with door open)		
Factory Alarm Disarm	(see disarm no unlock)		
Disarm No Unlock	(smart key and push-button start)		
Parking Lights (+)	white/brown (LF); white/orange (RF)	+	BCM, black 24 pin plug (A), pin 4; white 24 pin plug (D), pin 3

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Parking Lights MUX	white/lt. green (see Tech Doc 1082)	-1130 ohms	BCM above passenger kick, blue 24 pin plug (G), pin 20
Hazards	white/dk. blue	-	BCM above passenger kick, blue 24 pin plug (G), pin 21
Turn Signal (Left)	white/lt. green (F); white/dk. green (R)	+	BCM, white 24 pin plug (D), pin 14; black 48 pin plug (E), pin 3
Turn Signal (Right)	white/tan (F); white/yellow (R)	+	BCM, black 24 pin plug (A), pin 13; white 48 pin plug (F), pin 42
Headlight	white/lt. green (need to relay isolate the switch)	- 660 ohms	BCM above passenger kick, blue 24 pin plug (G), pin 20
AutoLights	white/lt. green (need to relay isolate the switch)	-2Kohm(off)	BCM above pass kick, blue 24 pin plug (G), pin 20
Reverse Light	white/lt. green	+	BCM above passnger kick, white 48 pin plug (F), pin 41
Left Front Door Trigger	purple	-	BCM above passenger kick, white 48 pin plug (F), pin 9
Right Front Door Trigger	purple/white	-	BCM above pass kick, white 48 pin plug (F), pin 23
Left Rear Door Trigger	purple/gray	-	BCM above pass kick, blue 24 pin plug (G), pin 18
Right Rear Door Trigger	purple/yellow	-	BCM above pass kick, black 48 pin plug (E), pin 5
Dome Light	yellow/white	+	BCM above passenger kick, blue 24 pin plug (G), pin 14
Trunk/Hatch Pin	purple/orange	-	BCM above passenger kick, white 48 pin plug (F), pin 26
Hood Pin	purple/lt. blue	-	BCM above passenger kick, black 24 pin plug (A), pin 11
Trunk/Hatch Release	lt. green/white (rear handle switch)	-	BCM above passenger kick, white 48 pin plug (F), pin 8
Trunk Release Motor	tan/yellow	5 wire	BCM above passenger kick, white 48 pin plug (F), pin 4
Fuel Door Release	lt. green/purple	+	fuel door switch, white 4 pin plug, pin 2

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Item	Wire Color	Polarity	Wire Location
Tachometer	NOT brown/white	ac	any fuel injector, black 2 pin plug, pin 1
Fuel Pump	dk. blue/orange	+	underhood fuse box, 42 pin plug, pin 17
Rear Defroster	dk. blue	+ latched	A/C heater control, 36 pin plug, pin 14
Mirror Defroster	(CAN IHS)		
Left Front Heated Seat	(CAN IHS)		
Right Front Heated Seat	(CAN IHS)		
Speed Sense	(wheel speed sensor)		
Brake Wire	dk. green/white	+	BCM above passenger kick, white 24 pin plug (D), pin 18
Parking Brake	gray/black	-	BCM above passnger kick, black 48 pin plug (E), pin 11
Horn Trigger	dk. green/white	+	BCM above passenger kick, black 24 pin plug (A), pin 23
Wipers	brown/yellow	+	BCM above passnger kick, black 24 pin plug (A), pin 12
Left Front Window (Up/Down)	orange/lt. green - orange/white	A	Driver Door Module, purple 5 pin plug, pins 4 - 5
Right Front Window (Up/Down)	orange/brown - orange/purple	A	Passenger Door Module, white 5 pin plug, pins 4 - 5
Left Rear Window (Up/Down)	tan/yellow - tan/lt. blue	A	left rear power window switch, gray 6 pin plug, pins 2 - 3
Right Rear Window (Up/Down)	orange/brown - orange/purple	A	right rear power window switch, gray 6 pin plug, pins 2 - 3
Sun Roof (Open/Close)	orange/tan - orange/lt. blue (funct w/ign on only)	-	Electronic Overhead Module, black 16 pin plug, pins 9 - 11
Memory Seat 1	dk. blue	- resistor	memory set switch, blue 6 pin plug, pin 5
Memory Seat 2	(same as memory seat 1)	- resistor	
Radio 12V	red	+	radio, 52 pin plug, pin 44
Radio Ground	black	-	radio, 52 pin plug, pin 43
Radio Ignition	(CAN IHS)		
Radio Illumination	(CAN IHS)		
Factory Amp Turn-on	(CAN IHS)		

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Left Front Speaker (+/-)	gray/purple - gray/yellow	+,-	radio, 52 pin plug, pins 47 - 51
Right Front Speaker (+/-)	dk. green/purple - dk. green/yellow	+,-	radio, 52 pin plug, pins 46 - 50
Left Rear Speaker (+/-)	gray/lt. green - gray/dk. green	+,-	radio, 52 pin plug, pins 48 - 52
Right Rear Speaker (+/-)	dk. green/lt. green - dk. green/gray	+,-	radio, 52 pin plug, pins 45 - 49
Center Channel (+/-)	gray/brown - gray/orange	+,-	amplifier in LR quarter panel, white 22 pin plug, pins 11 - 22
Subwoofer (+/-)	gry/brn - dk grn/brn (1); gry/wht - dk grn/wht (2)	+,-	amplifier in LR quarter panel, black 16 pin plg, pins 3 - 11; 14 - 6
Aux. Audio Input Left (+/-)	dk. green/tan - lt. green/dk. blue	+,-	radio, 52 pin plug, pins 16 - 7
Aux. Audio Input Right (+/-)	lt. green/lt. blue - lt. green/dk. blue	+,-	radio, 52 pin plug, pins 6 - 7
RSE Video (+/-)	gray/lt. blue - gray/yellow	+,-	radio, 52 pin plug, pins 24 - 25
RSE Audio Left (+/-)	dk. green/purple - gray/lt. blue	+,-	radio, 52 pin plug, pins 10 - 9
RSE Audio Right (+/-)	dk. green/yellow - gray/lt. blue	+,-	radio, 52 pin plug, pins 8 - 9
Satellite Radio 12 Volts	(built into radio)		

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**What Fits**

Item	Size	Depth	Location
Headunit	double DIN		center of dash
Left Front Speaker	6 x 9		left front door
Left Front Tweeter	1 (tweeter); 3.5 (midrange)		left front door
Right Front Speaker	6 x 9		right front door
Right Front Tweeter	1 (tweeter); 3.5 (midrange)		right front door
Left Rear Speaker	6.5		left rear door
Left Rear Tweeter	1 (tweeter); 2.5 or 3.5 (surround)		left rear door (tw); left rear pillar (surr)
Right Rear Speaker	6.5		right rear door
Right Rear Tweeter	1 (tweeter); 2.5 or 3.5 (surround)		right rear door (tw); right rear pillar (surr)
Center Channel	3.5		top center of dash
Subwoofer	8 or 10		right rear quarter panel
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 gray/purple - gray/yellow at the amplifier in LR quarter panel, black 16 pin plug, pins 8 - 16. The tweeter wires are gray/orange - gray/yellow at the amplifier, white 22 pin plug, pins 20 - 9.
Left Rear Speaker (+/-)	On models with amplifier, the speaker wires are gray/lt. green - gray/dk. green at the amplifier in LR quarter panel, black 16 pin plug, pins 13 - 5. The surround wires are dk. green/tan - dk. green/gray at the amplifier, white 22 pin plug, pins 10 - 21.
Parking Lights (+)	The LR - RR are white/gray - white/orange (+) at the BCM above passenger kick, white 48 pin plug (F), pin 32; black 48 pin plug (E), pin 4.
Right Front Speaker (+/-)	On models with amplifier, the speaker wires are dk. green/purple - dk. green/yellow at the amplifier in LR quarter panel, black 16 pin plug, pins 7 - 15. The tweeter wires are gray/dk. green - gray/lt. green at the amplifier, white 22 pin plug, pins 19 - 8.
Right Rear Speaker (+/-)	On models with amplifier, the speaker wires are dk. green/lt. green - dk. green/gray at the amplifier in LR quarter panel, black 16 pin plug, pins 4 - 12. The surround wires are dk. green/brown - yellow/gray at the amplifier, black 16 pin plug, pins 10 - 2.
RSE Audio Left (+/-)	The CD changer audio left wires are dk. green/white - gray/orange at the radio, 52 pin plug, pins 10 - 9.
RSE Audio Right (+/-)	The CD changer audio right wires are gray/white - gray/orange at the radio, 52 pin plug, pins 8 - 9.
RSE Video (+/-)	The rear view camera wires are dk. green/brown - dk. green/orange at the radio, 52 pin plug, pins 31 - 32.
Trunk/Hatch Release	On models with power liftgate, the open/close is purple/tan (- 4700 ohms) at the Electronic Overhead Module, black 16 pin plug, pin 15.