

DirectWire

2017 Jeep Cherokee - North America

Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red or red/lt. green (70A or 50A)	+	BCM/dash fuse box, blue 2 pin plug (C2), pin A
Ground	(chassis ground)		
Starter	lt. blue/tan (for starter kill only)	-	BCM/dash fuse box, black 60 pin plug (C4), pin 49
Ignition	violet/brown	+	Ignition Node (ignition switch), black 6 pin plug, pin 4
Second Ignition	brown (for ignition sense only)	+	BCM/dash fuse box, black 60 pin plug (C4), pin 3
Accessory	brown/orange (for accessory sense only)	-	BCM/dash fuse box, black 60 pin plug (C4), 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	Ignition Node (ignition switch), black 6 pin plug, pin 5
Power Lock	violet/lt. green or violet/dk. green (base models)	- 330 ohms	BCM/dash fuse box, green 60 pin plug (C6), pin 27
Power Unlock	(same as power lock)	- 100 ohms	
Lock Motor	lt. green/lt. blue	5 wire	BCM/dash fuse box, black 32 pin plug (C5), pin 14
Driver Unlock Motor	tan/lt. green	5 wire	BCM/dash fuse box, black 32 pin plug (C5), pin 8 or 32
Passenger Unlock Motor	tan	5 wire	BCM/dash fuse box, black 32 pin plug (C5), pin 3
Factory Alarm Arm	(arms on lock with door open)		
Factory Alarm Disarm	(see disarm no unlock)		
Disarm No Unlock	(transponder and ignition)		
Parking Lights	white/yellow (LF); white/blue (RF); white/yellow (LR); white/gray (RR)	+	BCM/dash fuse box, black 60 pin plug (C4), pin 30; green 60 pin plug (C6), pins 3, 47, 16
Parking Lights -	white/brown (see Tech Doc 1082)	-1130 ohms	headlight switch, black 10 pin plug, pin 1
Hazards	white/dk. blue (manual A/C); (CAN IHS on auto A/C)	-	BCM/dash fuse box, rear, 60 pin plug (C8), pin 55
Turn Signal (Left)	white/lt. green (F); white/dk. green (R)	+	BCM/dash fuse box, black 60 pin plug (C4), pin 31; green 60 pin plug (C6), pin 2
Turn Signal (Right)	white/tan (F); white/yellow (R)	+	BCM/dash fuse box, green 60 pin plug (C6), pins 32, 17
Headlight	white/brown (need to relay isolate the switch)	- 660 ohms	headlight switch, black 10 pin plug, pin 1
AutoLights	white/brown (need to relay isolate the switch)	-2000 ohms (off)	headlight switch, black 10 pin plug, pin 1
Reverse Light	white/red	+	BCM/dash fuse box, green 60 pin plug (C6), pin 1
Left Front Door Trigger	violet	-	BCM/dash fuse box, green 60 pin plug (C6), pin 50
Right Front Door Trigger	violet/white	-	BCM/dash fuse box, green 60 pin plug (C6), pin 53
Left Rear Door Trigger	violet/gray	-	BCM/dash fuse box, green 60 pin plug (C6), pin 36
Right Rear Door Trigger	violet/yellow	-	BCM/dash fuse box, green 60 pin plug (C6), pin 33
Dome Light	yellow/lt. blue	+	BCM/dash fuse box, green 60 pin plug (C6), pin 57
Trunk/Hatch Pin	violet/orange	-	BCM/dash fuse box, green 60 pin plug (C6), pin 35
Hood Pin	violet/lt. blue	-	BCM/dash fuse box, black 60 pin plug (C4), pin 8
Trunk/Hatch Release	lt. green/white (rear handle switch); violet/tan (power liftgate)	-	BCM/dash fuse box, rear, 60 pin plug (C8), pin 16; power liftgate switch, black 4 pin plug, pin 2
Trunk Release Motor	tan/yellow	+	BCM/dash fuse box, black 32 pin plug (C5), pin 9 or 18
Fuel Door Release	lt. green/violet	+	driver kick, door harness
Tachometer	brn/yel, brn/dk. blu, brn/lt. blu, brn/tan, brn/org, or brn/pur	ac	any fuel injector, 2 pin plug, pin 1 (I-4); front of engine, black 24 pin plug (V6)
Clutch Pedal	dk. green/brown (also need to open the black ground)	-	clutch switch, black 3 pin plug, pins 2, 1
Fuel Pump	dk. blue/orange	+	above driver kick, black 43 pin plug, pin 32

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Item	Wire Color	Polarity	Wire Location
Rear Defroster	dk. blue	- latched	BCM/dash fuse box, green 60 pin plug (C6), pin 21
Mirror Defroster	(CAN IHS)		
Left Front Heated Seat	(CAN IHS)		
Right Front Heated Seat	(CAN IHS)		
Speed Sense	dk. green/white (with sunroof only)	ac	BCM/dash fuse box, green 60 pin plug (C6), pin 49
Brake Wire	dk. green/lt. green	+	brake switch or BCM/dash fuse box, black 60 pin plug (C4), pin 57
Parking Brake	violet		electric parking brake switch, black 12 pin plug, pin 10
Horn Trigger	gray/yellow or green/white	+	BCM/dash fuse box, black 32 pin plug (C5), pin 30
Wipers	brown/white (LO); brown/orange (HI)	+	BCM/dash fuse box, black 20 pin plug (C3), pins 9, 10
Left Front Window (Up/Down)	orange/lt. green - orange/white (base models only)	A	driver power window switch, black 14 pin plug, pins 10 - 9
Right Front Window (Up/Down)	orange/brown - orange/violet (base models only)	A	passenger power window switch, gray 8 pin plug, pins 3 - 5
Left Rear Window (Up/Down)	orange/white - orange/gray	A	driver kick, door harness
Right Rear Window (Up/Down)	orange/lt. blue - orange/dk. blue	A	driver kick, door harness
Sun Roof (Open/Close)	orange/tan - orange/lt. blue (function with ignition on only)	+	sunroof switch, 6 pin plug, pins 4 - 3
Memory Seat 1	violet/brown	- resistor	memory set switch, black 4 pin plug, pin 1
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)		
Left Front Speaker (+/-)	gray/violet - gray/yellow	+,-	radio, 52 pin plug, pins 47 - 51
Right Front Speaker (+/-)	dk. green/violet - 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 behind glove box, white 22 pin plug, pins 11 - 22
Subwoofer (+/-)	gray/brown - dk. green/brown (1); gray/white - dk. green/white (2)	+,-	amplifier behind glove box, black 16 pin plug, pins 14 - 6; 3 - 11
Aux. Audio Input Left (+/-)	lt. 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 (+/-)	dk. green - white (rear view camera video)	+,-	radio, 52 pin plug, pins 31 - 32
RSE Audio Left (+/-)	dk. green/white - gray/orange (CD changer audio)	+,-	radio, 52 pin plug, pins 10 - 9
RSE Audio Right (+/-)	gray/white - gray/orange (CD changer audio)	+,-	radio, 52 pin plug, pins 8 - 9
Satellite Radio 12 Volts	(built into radio)		

What Fits

Item	Size	Depth	Location
Headunit	irregular		center of dash
Left Front Speaker	6 x 9		left front door
Left Front Tweeter	3.5		left front dash
Right Front Speaker	6 x 9		right front door
Right Front Tweeter	3.5		right front dash
Left Rear Speaker	6 x 9		left rear door
Left Rear Tweeter	2.5		left rear pillar
Right Rear Speaker	6 x 9		right rear door
Right Rear Tweeter	2.5		right rear pillar
Center Channel	3.5		top center of dash
Subwoofer	8		right rear quarter panel
Satellite Radio Tuner	(built into radio)		

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Additional Wiring Notes

Item	Note
Power Lock	On premium models, use purple/lt. green at the passenger window/door lock switch, green 10 pin plug, pin 8.
Left Front Speaker (+/-)	On models with amplifier, the speaker wires are gray/purple - gray/yellow at the amplifier behind glove box, 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.
Right Front Speaker (+/-)	On models with amplifier, the speaker wires are dk. green/purple - dk. green/yellow at the amplifier behind glove box, 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.
Left Rear Speaker (+/-)	On models with amplifier, the speaker wires are gray/lt. green - gray/dk. green at the amplifier behind glove box, white 22 pin plug, pins 10 - 21. The tweeter wires are dk. green/dk. blue - dk. green/tan at the amplifier, black 16 pin plug, pins 13 - 5.
Right Rear Speaker (+/-)	On models with amplifier, the speaker wires are dk. green/lt. green - dk. green/gray at the amplifier behind glove box, black 16 pin plug, pins 9 - 1. The tweeter wires are gray/dk. blue - gray/tan at the amplifier, black 16 pin plug, pins 4 - 12.