

DirectWire

2011 Jeep Grand Cherokee (Smart Key) - North America - Requested by ampire.de

Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red/lt. green (25A)	+	driver kick, door harness
Second 12 Volts	lt. blue/red (10A)	+	Wireless Ignition Node on ignition switch, black 12 pin plug, pin 1
Starter	yellow/gray (for starter kill only)	+	starter or TIPM on passenger fender, blue 26 pin plug (C2), pin 8
Ignition	pink/white (for ignition sense only)	+	Wireless Ignition Node on ignition switch, black 12 pin plug, pin 3
CAN Bus High	white/lt. blue (CAN C bus)	data	Wireless Ignition Node on ignition switch, black 12 pin plug, pin 5
CAN Bus Low	white/brown (CAN C bus)	data	Wireless Ignition Node on ignition switch, black 12 pin plug, pin 6
CAN Bus High 3	white/gray (CAN IHS bus)	data	driver kick, door harness
CAN Bus Low 3	white/orange (CAN IHS bus)	data	driver kick, door harness
Power Lock	violet/lt. green (passenger door lock switch)	- 330 ohms	Passenger Door Module, black 10 pin plug, pin 4
Lock Motor	tan/white	5 wire	driver kick, door harness
Driver Unlock Motor	tan/lt. green	5 wire	driver kick, door harness
Passenger Unlock Motor	tan/orange	5 wire	driver rear door harness
Parking Lights	white/brown (L), white/orange (R)	+	driver kick, harness to rear
Parking Lights -	white/lt. green (see Tech Doc 1082)	-1130 ohms	headlight switch, black 10 pin plug, pin 1

Item	Wire Color	Polarity	Wire Location
Hazards	white/dk. blue	-	hazard switch, black 12 pin plug, pin 4
Turn Signal (Left)	white/lt. green (F); white/yellow (R)	+	TIPM on pass fender, gry 16P plug(C4), pin 9; blk 50P plg(C7), pin 49
Turn Signal (Right)	white/tan (F); white/yellow (R)	+	TIPM on pass fender, gry 16P plug(C4), pin 7; blk 50P plg(C7), pin 50
Headlight	white/lt. green (need to relay isolate the switch)	- 660 ohms	headlight switch, black 10 pin plug, pin 1
AutoLights	white/lt. green (need to relay isolate the switch)	-2000 ohms (off)	headlight switch, black 10 pin plug, pin 1
Reverse Light	white/lt. green	+	driver kick, harness to rear
Left Front Door Trigger	violet	-	driver kick, door harness
Right Front Door Trigger	violet/white	-	passenger kick, door harness
Left Rear Door Trigger	violet/gray	-	driver kick, harness to rear
Right Rear Door Trigger	violet/yellow	-	passenger kick, harness to rear
Dome Light	yellow/white	+	driver kick, harness to rear
Trunk/Hatch Pin	violet/orange	-	passenger kick, harness to rear
Rear Glass Pin	violet/yellow	-	driver kick, harness to rear
Hood Pin	violet/lt. blue	-	hood switch or TIPM on passenger fender, gry 16 pin plug (C4), pin 3
Trunk/Hatch Release	violet (liftgate glass)	-	driver kick, harness to rear
Trunk Release Motor	orange/gray (liftgate glass)	5 wire	driver kick, harness to rear
Fuel Door Release	lt. green/orange	+	fuel door switch, black 2 pin plug, pin 2

Item	Wire Color	Polarity	Wire Location
Tachometer	NOT brown/white	ac	any fuel injector
Fuel Pump	dk. blue/orange	+	driver kick, harness to rear
Rear Defroster	dk. blue/white	+ latched	driver kick, harness to rear
Speed Sense	dk. green/brown (some models only)	ac	Powertrain Ctrl Mod on front of TIPM, blk/grn 38 pin plug, pin 32
Brake Wire	white/dk. green	+	brake switch or Wireless Ign Node on ign sw, black 12 pin plug, pin 8
Parking Brake	dk. green/white	-	parking brake switch, black 1 pin plug, pin 1
Horn Trigger	gray/yellow (1), gray/lt. blue (2)	+	horns or TIPM on pass fender, grn 26 pin plug (C3), pins 18 and 24
Wipers	brown/white (L), brown/orange (H)	+	wpr mtr or TIPM on pass fndr, brn 40 pin plug (C5), pins 12 and 11
Left Front Window (Up/Down)	orange/lt. green - orange/black	A	Driver Door Module, purple 5 pin plug, pins 4 and 5
Right Front Window (Up/Down)	orange/brown - orange/violet	A	Passenger Door Module, purple 5 pin plug, pins 4 and 5
Left Rear Window (Up/Down)	tan/yellow - tan/lt. blue	A	left rear power window switch, lt. gray 6 pin plug, pins 2 and 3
Right Rear Window (Up/Down)	orange/brown - orange/violet	A	right rear power window switch, lt. gray 6 pin plug, pins 2 and 3
Sun Roof (Open/Close)	orange/tan - orange/lt. blue (funct w/ign on only)	-	overhead console assembly, black 16 pin plug, pins 9 and 11
Memory Seat 1	violet/brown	- resistor	Driver Door Module, black 10 pin plug, pin 6
Radio 12V	yellow/red	+	radio, gray 22 pin plug, pin 1
Radio Ground	black	-	radio, gray 22 pin plug, pin 12
Power Antenna	gray/orange	+	radio, gray 22 pin plug, pin 7

Item	Wire Color	Polarity	Wire Location
Left Front Speaker (+/-)	gray/violet - gray/yellow	+,-	radio, gray 22 pin plug, pins 21 and 22
Right Front Speaker (+/-)	dk. green/violet - dk. green/yellow	+,-	radio, gray 22 pin plug, pins 19 and 20
Left Rear Speaker (+/-)	dk. green/dk. blue - dk. green/orange	+,-	radio, gray 22 pin plug, pins 8 and 9
Right Rear Speaker (+/-)	gray/dk. blue - gray/orange	+,-	radio, gray 22 pin plug, pins 10 and 11
Center Channel (+/-)	gray/brown - gray/orange	+,-	amplifier in LR quarter panel, white 22 pin plug, pins 11 and 22
Subwoofer (+/-)	gry/brn - dk grn/brn (1); gry/wht - dk grn/wht (2)	+,-	amplifier in LR quarter panel, blk 16 pin plug, pins 3 - 11; 14 - 6
Aux. Audio Input Left (+/-)	white - tan (Uconnect audio)	+,-	radio, gray 22 pin plug, pins 16 and 15
Aux. Audio Input Right (+/-)	red - tan (Uconnect audio)	+,-	radio, gray 22 pin plug, pins 17 and 15
RSE Video (+/-)	gray/brn - gray/yel (1); gry/lt. blu - gry/yel (2)	+,-	radio, white 22 pin plug, pins 6 and 7; 9 and 10

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Additional Wiring Notes

Item	Note
Trunk/Hatch Release	The power liftgate open/close is purple/tan (- 4700 ohms) at the overhead console assembly, black 16 pin plug, pin 15.
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 and 16. The tweeter wires are gray/orange - gray/yellow at the amplifier, white 22 pin plug, pins 20 and 9.
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 and 15. The tweeter wires are gray/dk. green - gray/lt. green at the amplifier, white 22 pin plug, pins 19 and 8.
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 and 5. The surround wires are dk. green/tan - dk. green/gray at the amplifier, white 22 pin plug, pins 10 and 21.
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 and 12. The surround wires are dk. green/brown - yellow/gray at the amplifier, black 16 pin plug, pins 10 and 2.
RSE Video (+/-)	The rearview camera video wires are dk. green/brown - dk. green/orange at the radio, white 22 pin plug, pins 3 and 4.