



<http://www.directechs.com>

Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	Red (80A)	+	Driver Kick, black 2 pin plug (XY315A), pin 1
Second 12 Volts	Red (40A)	+	BCM in passenger kick, gray 2 pin plug (C), pin 2
Ground	(chassis ground)		
Starter Kill	Yellow/Gray	+	Near PCM behind passenger headlight, black 40 pin plug (XY200A), pin 1
Starter	Brown/Tan	-	BCM in passenger kick, gray 40 pin plug (B), pin 15
Ignition Sense	Pink/White	+	BCM in passenger kick, gray 32 pin plug (D), pin 13
PTS 1	Violet/Blue	+	Keyless Ignition Node (Start Stop Button), black 6 pin plug, pin 4
Data Bus	INTERFACE MODULE REQUIRED FOR REMOTE START		
CAN Bus High	Dk. Green/Tan (DIAG CAN)	Data	OBD-Data Link Connector, black 16 pin plug, pin 6
CAN Bus Low	Tan (DIAG CAN)	Data	OBD-Data Link Connector, black 16 pin plug, pin 14
CAN Bus High 2	Dk. Blue/White (CAN IHS)	Data	Driver Kick, black 59 pin plug (XY301A), pin 26
CAN Bus Low 2	White (CAN IHS)	Data	Driver Kick, black 59 pin plug (XY301A), pin 25
CAN Bus High 3	Gray/Tan (CAN FD)	Data	Above Driver Kick, black 59 pin plug (XY311A), pin 13
CAN Bus Low 3	Tan (CAN FD)	Data	Above Driver Kick, black 59 pin plug (XY311A), pin 16
OBD 12 Volts	Gray/Red (10A)	+	OBD-Data Link Connector, black 16 pin plug, pin 16
OBD Ground	Black/Orange	-	OBD-Data Link Connector, black 16 pin plug, pin 4
OBD Connector	Black		Under Driver Dash, Behind Hood Release
IMMO Data	White/Green	Data	Keyless Ignition Node (Start Stop Button), black 6 pin plug, pin 5

2022 Jeep GrandCherokee(SmartKey) - Requested by: ampire.de



Item	Wire Color	Polarity	Wire Location
Driver LF Antenna	Gray - Gray/Brown	RF	Passive Entry Antenna 1 at front of left rear door, black 2 pin plug, pins 1 - 2
Driver LF Antenna 2	Gray - Gray/Brown	RF	Radio Freq Hub Module in center rear of headliner, gray 24 pin plug, pins 16 - 17
Passenger LF Antenna	Gray/Orange - Gray/Violet	RF	Passive Entry Antenna 2 at front of right rear door, black 2 pin plug, pins 1 - 2
Passenger LF Antenna 2	Gray/Orange - Gray/Violet	RF	Radio Freq Hub Module in center rear of headliner, gray 24 pin plug, pins 8 - 22
Center LF Antenna	Gray/Blue - Gray/Tan	RF	Passive Entry Antenna 4 in front of center console, black 2 pin plug, pins 1 - 2
Center LF Antenna 2	Gray/Blue - Gray/Tan	RF	Radio Freq Hub Module in center rear of headliner, gray 24 pin plug, pins 18 - 19
Rear LF Antenna	Gray/Dk. Green - Gray/Green	RF	Passive Entry Antenna 5 in center of rear bumper, black 2 pin plug, pins 1 - 2
Rear LF Antenna 2	Gray/Dk. Green - Gray/Green	RF	Radio Freq Hub Module in center rear of headliner, gray 24 pin plug, pins 6 - 20
Power Lock	(LIN) (use lock motors)		
Power Unlock	(LIN) (use unlock motors)		
Lock Motor	Green/Orange (LF); Green/Violet (RF-LR-RR)	Reverse	BCM in passenger kick, black 40 pin plug (F), pin 39 (LF); black 52 pin plug (E), pin 23 (RF-LR-RR)
Driver Unlock Motor	Tan/Dk. Green	Reverse	BCM in passenger kick, black 52 pin plug (E), pin 22
Passenger Unlock Motor	Tan/White (RF); Tan/Orange (LR); Tan/Blue (RR)	Reverse	BCM in passenger kick, black 40 pin plug (F), pin 40 (RF); gray 32 pin plug (D), pin 10 (LR); black 52 pin plug (E), pin 21 (RR)
Lock Detection	Green/Yellow	-	Driver Kick, door harness, white 17 pin plug (XY601), pin 10 --or-- BCM in passenger kick, black 40 pin plug (F), pin 36
Unlock Detection	(same as lock detection)	Open	

2022 Jeep GrandCherokee(SmartKey) - Requested by: ampire.de



<http://www.directechs.com>

Item	Wire Color	Polarity	Wire Location
Parking Lights	White/Gray (LR); White/Orange (RR)	+	BCM in passenger kick, black 40 pin plug (F), pin 29 (LR); gray 32 pin plug (D), pin 4 (RR)
Parking Lights 2	White/Blue (LF); White/Dk. Blue (RF) (side markers)	+	Left Headlight, black 16 pin plug, pin 2 (LF); Right Headlight, black 16 pin plug, pin 2 (RF)
Parking Lights -	White/Brown (see Tech Doc 1082)	- 1130 Ohms	Headlight Switch, black 10 pin plug, pin 1 --or-- BCM in passenger kick, blue 52 pin plug (G), pin 22
Parking Lights MUX	White/Brown	MUX	Headlight Switch, black 10 pin plug, pin 1
Hazards	White/Dk. Blue	-	Hazard Switch, black 4 pin plug, pin 4
Hazards 2	White/Dk. Blue (alternate location)	-	BCM in passenger kick, blue 52 pin plug (G), pin 41
Turn Signal (Left)	Dk. Green/White (LF); Yellow (LR)	+	BCM in passenger kick, gray 40 pin plug (B), pin 32 (LF); black 52 pin plug (E), pin 36 (LR)
Turn Signal (Right)	Brown/White (RF); Green (RR)	+	BCM in passenger kick, gray 40 pin plug (B), pin 31 (RF); black 40 pin plug (F), pin 30 (RR)
Headlight	White/Brown (relay isolate from switch)	- 660 Ohms	Headlight Switch, black 10 pin plug, pin 1 --or-- BCM in passenger kick, blue 52 pin plug (G), pin 22
AutoLights	White/Brown (relay isolate from switch)	- 2000 Ohms (Off)	Headlight Switch, black 10 pin plug, pin 1 --or-- BCM in passenger kick, blue 52 pin plug (G), pin 22
Reverse Light	White/Tan	+	BCM in passenger kick, black 40 pin plug (F), pin 28
Left Front Door Trigger	Violet	-	Driver Kick, door harness, brown 17 pin plug (XY601), pin 6
Left Front Door Trigger 2	Violet (alternate location)	-	BCM in passenger kick, black 52 pin plug (E), pin 9
Right Front Door Trigger	Violet/White	-	BCM in passenger kick, gray 32 pin plug (D), 21
Left Rear Door Trigger	Violet/Gray	-	BCM in passenger kick, gray 32 pin plug (D), 20

2022 Jeep GrandCherokee(SmartKey) - Requested by: ampire.de



<http://www.directechs.com>

Item	Wire Color	Polarity	Wire Location
Right Rear Door Trigger	Violet/Yellow	-	BCM in passenger kick, black 52 pin plug (E), pin 30
Dome Light	Yellow/Violet	+	BCM in passenger kick, black 40 pin plug (F), pin 17
Trunk/Hatch Pin	Violet/Orange	-	BCM in passenger kick, black 52 pin plug (E), pin 7
Hood Pin	Violet/Blue	-	BCM in passenger kick, gray 40 pin plug (B), pin 24
Power Liftgate 2	Violet (close)	-	Rear Power Liftgate Switch, white 6 pin plug, pin 1
Trunk/Hatch Release	Green/White (rear handle switch)	-	BCM in passenger kick, gray 32 pin plug (D), pin 7
Trunk Release Motor	Tan/Yellow	Reverse	BCM in passenger kick, black 52 pin plug (E), pin 40
Fuel Door Release	Tan/Violet - Green/Violet (lock-unlock motor) (export models)	Reverse	BCM in passenger kick, black 52 pin plug (E), pins 15 - 16
Tachometer	Dk. Blue/Gray (CMP) (3.6L)	AC	Engine Driver Side Rear, black 34 pin plug (XY221A), pin 30
Tachometer 2	Dk. Blue/Gray (5.7L)	AC	Camshaft Position Sensor, engine passenger side front, black 3 pin plug, pin 3
Tachometer 3	Brown/Green (with ANC)	AC	Above Driver Kick, black 59 pin plug (XY311A), pin 2
Fuel Pump	Dk. Blue/Orange	+	Engine Compartment Passenger Side Rear, black 40 pin plug (XY810A), pin 11
Rear Defroster	Brown/Violet	+ Latched	BCM in passenger kick, gray 40 pin plug (B), pin 6
Mirror Defroster	(CAN IHS)		
Wiper Deicer	Dk. Blue	+ Latched	BCM in passenger kick, gray 40 pin plug (B), pin 7
Left Front Heated Seat	(CAN IHS)		
Right Front Heated Seat	(CAN IHS)		
Heated Steering Wheel	(CAN IHS)		

2022 Jeep GrandCherokee(SmartKey) - Requested by: ampire.de



Item	Wire Color	Polarity	Wire Location
Speed Sense	Dk. Green/Green (export models)	AC	Above Driver Kick, black 59 pin plug (XY311A), pin 50
Speed Sense 2	Dk. Green/White (with dual pane sunroof)	AC	BCM in passenger kick, blue 52 pin plug (G), pin 7
Brake Wire	Dk. Green/White	+	Brake Provision Connector in driver kick, gray 4 pin plug, pin 2
Brake Wire 2	Dk. Green/White (alternate location)	+	BCM in passenger kick, gray 32 pin plug (D), pin 28
Brake Wire 3	Dk. Green/White (alternate location)	+	Above Driver Kick, black 24 pin plug (XY231A), pin 11
Parking Brake	Violet (EPB indicator)		Electric Parking Brake Switch, black 12 pin plug, pin 10
Horn Trigger	Dk. Green/Violet	-	BCM in passenger kick, blue 52 pin plug (G), pin 42 --or-- Steering Column Module, black 16 pin plug, pin 13
Horn Trigger 2	DK. Green/White (alternate)	+	BCM in passenger kick, gray 40 pin plug (B), pin 20
Wipers	Brown/Blue	+	BCM in passenger kick, black 22 pin plug (A), pin 21
Left Front Window (Up/Down)	Orange/Green - Orange/White	A	Driver Door Module, black 5 pin plug, pins 1 - 5
Right Front Window (Up/Down)	Orange/Brown - Orange/Violet	A	Passenger Door Module, black 5 pin plug, pins 1 - 5
Left Rear Window (Up/Down)	(LIN) (motor is part of module)		
Right Rear Window (Up/Down)	(LIN) (motor is part of module)		
Sun Roof (Open/Close)	Orange/Tan - Orange/Blue (function with ignition on only)	-	Over Head Console Module, black 20 pin plug, pins 5 - 14
Sun Roof (Limit/Close)	Orange/Yellow (vent) (functions with ignition on only)	-	Over Head Console Module, black 20 pin plug, pin 6
Memory Seat 1	Violet/Brown	MUX	Driver Door Module, blue 10 pin plug, pin 8 --or-- Memory Switch, black 4 pin plug, pin 1
Memory Seat 2	(same as memory seat 1)		
Radio 12V	Red	+	Radio, green 12 pin plug, pin 10

2022 Jeep GrandCherokee(SmartKey) - Requested by: ampire.de



<http://www.directtechs.com>

Item	Wire Color	Polarity	Wire Location
Radio Ground	Black	-	Radio, green 12 pin plug, pin 11
Radio Ignition	Pink/Yellow	+	Cigar Lighter, gray 3 pin plug, pin 1
Radio Illumination	Orange/Gray (dimmer)	+	Cigar Lighter, gray 3 pin plug, pin 2
Left Front Speaker (+/-)	Dk. Green/Yellow - Dk. Green/Blue or Dk. Green - Dk. Green/Brown	+,-	Radio, green 12 pin plug, pins 6 - 5
Right Front Speaker (+/-)	Gray/Yellow - Gray/Blue or Gray - Gray/Brown	+,-	Radio, green 12 pin plug, pins 8 - 7
Left Front Tweeter (+/-)	Gray/Orange - Gray/Yellow (Premium 1)	+,-	Radio, blue 32 pin plug, pins 2 - 1
Right Front Tweeter (+/-)	Gray/Dk. Green - Gray/Green (Premium 1)	+,-	Radio, blue 32 pin plug, pins 4 - 3
Left Rear Speaker (+/-)	Dk. Green/Tan - Dk. Green/Gray or Dk. Green/Dk. Blue - Dk. Green/Orange	+,-	Radio, green 12 pin plug, pins 2 - 1
Right Rear Speaker (+/-)	Dk. Green/Brown - Yellow/Gray or Gray/Dk. Blue - Gray/Orange	+,-	Radio, green 12 pin plug, pins 4 - 3
Left Front Speaker - With Amp	Dk. Green/Yellow - Dk. Green/Blue	+,-	Amplifier in right rear quarter panel, behind insulator, gray 10 pin plug, pins 4 - 9 (Alpine)
Right Front Speaker - With Amp	Gray/Yellow - Gray/Blue	+,-	Amplifier in right rear quarter panel, behind insulator, gray 10 pin plug, pins 5 - 10 (Alpine)
Left Front Tweeter - With Amp	Gray/Orange - Gray/Yellow	+,-	Amplifier in right rear quarter panel, behind insulator, gray 10 pin plug, pins 2 - 7 (Alpine)
Right Front Tweeter - With Amp	Gray/DK. Green - Gray/Green	+,-	Amplifier in right rear quarter panel, behind insulator, gray 10 pin plug, pins 3 - 8 (Alpine)
Left Rear Speaker - With Amp	Dk. Green/Tan - Dk. Green/Gray	+,-	Amplifier in right rear quarter panel, behind insulator, gray 22 pin plug, pins 4 - 15 (Alpine)
Right Rear Speaker - With Amp	Dk. Green/Brown - Yellow/Gray	+,-	Amplifier in right rear quarter panel, behind insulator, gray 22 pin plug, pins 5 - 16 (Alpine)
Left Rear Tweeter - With Amp	Gray/Green - Gray/Dk. Green	+,-	Amplifier in right rear quarter panel, behind insulator, gray 22 pin plug, pins 6 - 17 (Alpine)
Right Rear Tweeter - With Amp	Dk. Green/Green - Dk. Green/Gray	+,-	Amplifier in right rear quarter panel, behind insulator, gray 22 pin plug, pins 7 - 18 (Alpine)



Item	Wire Color	Polarity	Wire Location
Center Channel - With Amp	Gray/Brown - Gray/Orange	+,-	Amplifier in right rear quarter panel, behind insulator, gray 22 pin plug, pins 8 - 19 (Alpine)
Subwoofer - With Amp	Gray/Brown - Gray/Tan (coil 1); Gray/White - Dk. Green/White (coil 2)	+,-	Amplifier in right rear quarter panel, behind insulator, gray 22 pin plug, pins 10 - 21 (coil 1); pins 11 - 22 (coil 2) (Alpine)



<http://www.directechs.com>

What Fits

Item	Size	Depth	Location
Headunit	Irregular		Center of Dash
Left Front Speaker	6x9		Left Front Door
Left Front Tweeter	3.5		Left Front Dash
Right Front Speaker	6x9		Right Front Door
Right Front Tweeter	3.5		Right Front Dash
Left Rear Speaker	6x9		Left Rear Door
Left Rear Tweeter	3.5		Left Rear Door
Right Rear Speaker	6x9		Right Rear Door
Right Rear Tweeter	3.5		Right Rear Door
Center Channel	3.5		Top Center of Dash
Subwoofer	8		Left Rear Quarter Panel