

# DirectWire

2023 Dodge/Ram 1500 Classic (Smart Key) - North America - Requested by ampire.de

## Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	Red (40A)	+	BCM under driver dash, black 4 pin plug (B), pin 3
Starter Kill	Lt. Blue/Tan	+	BCM under driver dash, black 24 pin plug (A), pin 19
Ignition Sense	Pink/White	+	BCM under driver dash, black 48 pin plug (E), pin 27
Accessory	Brown/Orange (for accessory sense only)	+	BCM under driver dash, black 48 pin plug (E), pin 36
PTS 1	Violet/Brown	+	Keyless Ignition Node (Start Stop Button), black 6 pin plug, pin 4
CAN Bus High	Lt. Green (CAN C)	Data	Green CAN Junction Block left of steering column, white 3 pin plug, pin 1
CAN Bus Low	Yellow (CAN C)	Data	Green CAN Junction Block left of steering column, white 3 pin plug, pin 2
CAN Bus High 2	White/Gray (CAN IHS)	Data	White CAN Junction Block left of steering column, green 3 pin plug, pin 1
CAN Bus Low 2	White/Orange (CAN IHS)	Data	White CAN Junction Block left of steering column, green 3 pin plug, pin 2
CAN Bus High 3	Tan (DIAG CAN)	Data	OBD-Data Link Connector, black 16 pin plug, pin 6
CAN Bus Low 3	Yellow (DIAG CAN)	Data	OBD-Data Link Connector, black 16 pin plug, pin 14
OBD 12 Volts	Red (10A)	+	OBD-Data Link Connector, black 16 pin plug, pin 16

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OBD Ground	Black	-	OBD-Data Link Connector, black 16 pin plug, pin 4
IMMO Data	White/Lt. Green	Data	Keyless Ignition Node (Start Stop Button), black 6 pin plug, pin 5
Power Lock	violet/lt. green (passenger switch)	- 330 ohms	passenger window/door lock switch, green 10 pin plug, pin 8
Lock Motor	lt. green/dk. blue	Reverse	BCM under driver dash, white 48 pin plug (F), pin 2
Driver Unlock Motor	tan/lt. green	Reverse	BCM under driver dash, white 48 pin plug (F), pin 1
Passenger Unlock Motor	violet/lt. green	Reverse	BCM under driver dash, white 48 pin plug (F), pin 3
Parking Lights	white/brown (LF); white/orange (RF)	+	BCM under driver dash, black 24 pin plug (A), pin 4 (LF); white 24 pin plug (D), pin 3 (RF)
Parking Lights 2	white/dk. blue (LR); white/lt. blue (RR)	+	BCM under driver dash, white 48 pin plug (F), pin 32 (LR); black 48 pin plug (E), pin 4 (RR)
Parking Lights -	White/Brown (see Tech Doc 1082)	- 1130 Ohms	Headlight Switch, black 10 pin plug, pin 1
Parking Lights MUX	White/Brown	MUX	Headlight Switch, black 10 pin plug, pin 1
Hazards	white/dk. blue	-	BCM under driver dash, blue 24 pin plug (G), pin 21
Turn Signal (Left)	white/lt. green (LF); white (LR)	+	BCM under driver dash, white 24 pin plug (D), pin 14 (LF); white 48 pin plug (F), pin 40 (LR)
Turn Signal (Right)	white/tan (RF); white/lt. green (RR)	+	BCM under driver dash, black 24 pin plug (A), pin 13 (RF); black 48 pin plug (E), pin 2 (RR)
Headlight	white/brown (need to relay isolate the switch)	- 660 ohms	BCM under driver dash, blue 24 pin plug (G), pin 20

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AutoLights	white/brown (need to relay isolate the switch)	- 2000 ohms (off)	BCM under driver dash, blue 24 pin plug (G), pin 20
Reverse Light	white/tan	+	BCM under driver dash, white 48 pin plug (F), pin 41
Left Front Door Trigger	Violet	-	BCM under driver dash, white 48 pin plug (F), pin 9
Left Front Door Trigger 2	Violet (alternate location)	-	Harness Below BCM, running to driver door and rear of vehicle
Right Front Door Trigger	violet/white	-	BCM under driver dash, white 48 pin plug (F), pin 23
Left Rear Door Trigger	violet/gray	-	BCM under driver dash, blue 24 pin plug (G), pin 18
Right Rear Door Trigger	violet/yellow	-	BCM under driver dash, black 48 pin plug (E), pin 5
Dome Light	yellow/violet	+	BCM under driver dash, blue 24 pin plug (G), pin 14
Hood Pin	violet/lt. blue	-	BCM under driver dash, black 24 pin plug (A), pin 11
Tachometer	brown/stripe (gasoline)	ac	any fuel injector
Tachometer 2	dk. blue/gray (diesel)	ac	camshaft position sensor, engine driver side front, black 3 pin plug, pin 2
Clutch Pedal	yellow/orange or yellow/gray	-	clutch switch, green 2 pin plug, pin 1
Fuel Pump	dk. blue/orange	+	underhood fuse box, blue 42 pin plug, pin 17
Rear Defroster	dk. blue	+ latched	junction plug under driver dash, black 43 pin plug, pin 21
Brake Wire	dk. green/white	+	BCM under driver dash, white 24 pin plug (D), pin 18
Parking Brake	dk. green/white	-	BCM under driver dash, black 48 pin plug (E), pin 11

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Horn Trigger	dk. green/white	+	BCM under driver dash, black 24 pin plug (A), pin 23
Wipers	brown/yellow	+	BCM under driver dash, black 24 pin plug (A), pin 12
Left Front Window (Up/Down)	orange/tan - orange/white	A	Driver Door Module, violet 5 pin plug, pins 4 - 5
Right Front Window (Up/Down)	orange/brown - orange/violet	A	Passenger Door Module, violet 5 pin plug, pins 4 - 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, black 4 pin plug, pins D - C
Memory Seat 1	violet/brown	- resistor	memory seat switch, black 4 pin plug, pin 3
Radio 12V	red	+	radio, black 52 pin plug, pin 44
Radio Ground	black	-	radio, black 52 pin plug, pin 43
Left Front Speaker (+/-)	gray/violet - gray/yellow	+,-	radio, black 52 pin plug, pins 47 - 51
Right Front Speaker (+/-)	dk. green/violet - dk. green/yellow	+,-	radio, black 52 pin plug, pins 46 - 50
Left Rear Speaker (+/-)	gray/lt. green - gray/dk. green	+,-	radio, black 52 pin plug, pins 48 - 52
Right Rear Speaker (+/-)	dk. green/lt. green - dk. green/gray	+,-	radio, black 52 pin plug, pins 45 - 49
Left Front Speaker - With Amp	gray/violet - gray/yellow	+,-	amplifier under driver dash, black 16 pin plug, pins 8 - 16

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Right Front Speaker - With Amp	dk. green/violet - dk. green/yellow	+,-	amplifier under driver dash, black 16 pin plug, pins 7 - 15
Left Front Tweeter - With Amp	gray/orange - gray/yellow	+,-	amplifier under driver dash, white 22 pin plug, pins 20 - 9
Right Front Tweeter - With Amp	gray/dk. green - gray/lt. green	+,-	amplifier under driver dash, white 22 pin plug, pins 19 - 8
Left Rear Speaker - With Amp	gray/lt. green - gray/dk. green	+,-	amplifier under driver dash, black 16 pin plug, pins 13 - 5
Right Rear Speaker - With Amp	dk. green/lt. green - dk. green/gray	+,-	amplifier under driver dash, black 16 pin plug, pins 4 - 12
Left Rear Tweeter - With Amp	tan/white - dk. green/gray	+,-	amplifier under driver dash, white 22 pin plug, pins 10 - 21
Right Rear Tweeter - With Amp	dk. green/brown - yellow/gray	+,-	amplifier under driver dash, black 16 pin plug, pins 10 - 2
Center Channel - With Amp	gray/brown - gray/orange	+,-	amplifier under driver dash, black 16 pin plug, pins 3 - 11
Subwoofer - With Amp	gray/brown - dk. green/brown (coil 1); gray/white - dk. green/white (coil 2)	+,-	amplifier under driver dash, black 16 pin plug, pins 14 - 6 (coil 1); white 22 pin plug, pins 11 - 22 (coil 2)
Aux. Audio Input Left (+/-)	lt. green/tan - lt. green/dk. blue	+,-	radio, black 52 pin plug, pins 16 - 7
Aux. Audio Input Right (+/-)	lt. green/lt. blue - lt. green/dk. blue	+,-	radio, black 52 pin plug, pins 6 - 7
Rearview Camera Video	dk. green/brown - dk. green/orange	+,-	radio, black 52 pin plug, pins 31 - 32
RSE Audio Left (+/-)	dk. green/white - gray/orange (CD changer audio)	+,-	radio, black 52 pin plug, pins 10 - 9
RSE Audio Right (+/-)	gray/white - gray/orange (CD changer audio)	+,-	radio, black 52 pin plug, pins 8 - 9