

DirectWire

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

Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	Violet/Red (40A)	+	BCM above driver kick, black-gray 4 pin plug (B), pin 3
Starter Kill	Lt. Blue/Tan	+	BCM above driver kick, black 24 pin plug (A), pin 19
Ignition Sense	Brown/Black	+	BCM above driver kick, black 48 pin plug (E), pin 27
PTS 1	Violet/Brown	+	Keyless Ignition Node (Start Stop Button), black 6 pin plug, pin 4
CAN Bus High	White/Green (CAN C)	Data	Green CAN Junction Block behind headlight switch, white 3 pin plug, pin 1
CAN Bus Low	White/Blue (CAN C)	Data	Green CAN Junction Block behind headlight switch, white 3 pin plug, pin 2
CAN Bus High 2	White/Gray (CAN IHS)	Data	White CAN Junction Block behind headlight switch, green 3 pin plug, pin 1
CAN Bus Low 2	White/Orange (CAN IHS)	Data	White CAN Junction Block behind headlight switch, 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	Gray/Red (10A)	+	OBD-Data Link Connector, black 16 pin plug, pin 16
OBD Ground	Black	-	OBD-Data Link Connector, black 16 pin plug, pin 4

Item	Wire Color	Polarity	Wire Location
IMMO Data	White/Green	Data	Keyless Ignition Node (Start Stop Button), black 6 pin plug, pin 5
Power Lock	Violet/Green	- 330 Ohms	Passenger Window-Door Lock Switch, green 10 pin plug, pin 8
Lock Motor	Green/Dk. Green	Reverse	BCM above driver kick, white 48 pin plug (F), pin 2
Driver Unlock Motor	Tan/Green	Reverse	BCM above driver kick, white 48 pin plug (F), pin 1
Passenger Unlock Motor	Violet/Green	Reverse	BCM above driver kick, white 48 pin plug (F), pin 3
Parking Lights	White/Brown (LF); White/Orange (RF)	+	BCM above driver kick, black 24 pin plug (A), pin 4 (LF); white 24 pin plug (D), pin 3 (RF)
Parking Lights 2	White/Gray (LR); White/Orange (RR)	+	BCM above driver kick, 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 above driver kick, blue-black 24 pin plug (G), pin 21
Turn Signal (Left)	White/Green (LF); White/Dk. Green (LR)	+	BCM above driver kick, white 24 pin plug (D), pin 14 (LF); black 48 pin plug (E), pin 3 (LR)
Turn Signal (Right)	White/Tan (RF); White/Yellow (RR)	+	BCM above driver kick, black 24 pin plug (A), pin 13 (RF); white 48 pin plug (F), pin 42 (RR)
Headlight	White/Brown	- 660 Ohms	Headlight Switch, black 10 pin plug, pin 1

Item	Wire Color	Polarity	Wire Location
AutoLights	White/Brown	- 2000 Ohms (Off)	Headlight Switch, black 10 pin plug, pin 1
Reverse Light	White/Tan	+	BCM above driver kick, white 48 pin plug (F), pin 41
Left Front Door Trigger	Violet	-	BCM above driver kick, white 48 pin plug (F), pin 9
Right Front Door Trigger	Violet/White	-	BCM above driver kick, white 48 pin plug (F), pin 23
Left Rear Door Trigger	Violet/Gray	-	BCM above driver kick, blue-black 24 pin plug (G), pin 18
Right Rear Door Trigger	Violet/Yellow	-	BCM above driver kick, black 48 pin plug (E), pin 5
Dome Light	Yellow/Violet	+	BCM above driver kick, blue-black 24 pin plug (G), pin 14
Trunk/Hatch Pin	Violet/Orange (tailgate)	-	BCM above driver kick, white 48 pin plug (F), pin 26
Hood Pin	Violet/Blue	-	BCM above driver kick, black 24 pin plug (A), pin 11
Trunk/Hatch Release	Green/White (tailgate handle switch) (except multifunction)	-	BCM above driver kick, white 48 pin plug (F), pin 8
Trunk Release Motor	Tan/Yellow (tailgate) (except multifunction)	Reverse	BCM above driver kick, white 48 pin plug (F), pin 4
Tachometer	Dk. Blue/Gray (3.6L, 5.7L)	AC	PCM to driver side of engine, black 96 pin plug, pin 85
Tachometer 2	Dk. Blue/Gray (5.7L)	AC	Camshaft Position Sensor, engine passenger side front, black 3 pin plug, pin 3
Fuel Pump	Dk. Blue/Orange	+	Driver Kick, harness to rear
Rear Defroster	Dk. Blue	+ Latched	Above Passenger Kick, black 30 pin plug, pin 7

Item	Wire Color	Polarity	Wire Location
Speed Sense	Dk. Green/White (some models only)	AC	BCM above driver kick, white 48 pin plug (F), pin 48
Brake Wire	Dk. Green/White	+	BCM above driver kick, white 24 pin plug (D), pin 18
Horn Trigger	Dk. Green/Violet	-	BCM above driver kick, white 48 pin plug (F), pin 29
Wipers	Brown/Blue	+	BCM above driver kick, black 24 pin plug (A), pin 12
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)	Tan/Yellow - Tan/Blue	A	Left Rear Power Window Switch, gray 6 pin plug, pins 2 - 3
Right Rear Window (Up/Down)	Orange/Brown - Orange/Violet	A	Right Rear Power Window Switch, gray 6 pin plug, pins 2 - 3
Rear Sliding Window Open-Close	Tan/Brown - Tan/Orange	Reverse	Power Sliding Rear Window Switch, black 5 pin plug, pins 2 - 3
Sun Roof (Open/Close)	Orange/Tan - Orange/Blue (function with ignition on only)	-	Electronic Overhead Module, gray 16 pin plug, pins 5 - 15
Sun Roof (Limit/Close)	Orange/Yellow (vent) (functions with ignition on only)	-	Electronic Overhead Module, gray 16 pin plug, pin 6
Memory Seat 1	Violet/Brown	- Resistor	Memory Set Switch, black 4 pin plug, pin 1
Radio 12V	Red	+	Radio, black 52 pin plug, pin 44
Radio Ground	Black	-	Radio, black 52 pin plug, pin 43

Item	Wire Color	Polarity	Wire Location
Radio Ignition	Pink/Yellow (delayed accessory)	+	Power Outlet --or-- Driver Kick, door harness
Left Front Speaker (+/-)	Gray/Violet - Gray/Yellow or Dk. Green - Dk. Green/Brown	+,-	Radio, black 52 pin plug, pins 47 - 51
Right Front Speaker (+/-)	Dk. Green/Violet - Dk. Green/Yellow or Gray - Gray/Brown	+,-	Radio, black 52 pin plug, pins 46 - 50
Left Rear Speaker (+/-)	Gray/Green - Gray/Dk. Green or Dk. Green/Dk. Blue - Dk. Green/Orange	+,-	Radio, black 52 pin plug, pins 48 - 52
Right Rear Speaker (+/-)	Dk. Green/Green - Dk. Green/Gray or Gray/Dk. Blue - Gray/Orange	+,-	Radio, black 52 pin plug, pins 45 - 49
Left Front Speaker - With Amp	Gray/Violet - Gray/Yellow (woofer); Gray/Orange - Gray/Yellow (dash midrange)	+,-	Amplifier under driver seat, gray 10 pin plug, pins 4 - 9 (woofer); pins 2 - 7 (dash midrange)
Right Front Speaker - With Amp	Dk. Green/Violet - Dk. Green/Yellow (woofer); Gray/Dk. Green - Gray/Green (dash midrange)	+,-	Amplifier under driver seat, gray 10 pin plug, pins 5 - 10 (woofer); pins 3 - 8 (dash midrange)
Left Front Tweeter - With Amp	Dk. Blue/Blue - Dk. Blue/Yellow (premium 2 systems)	+,-	Amplifier under driver seat, gray 22 pin plug, pins 10 - 21
Right Front Tweeter - With Amp	Dk. Blue/Green - Dk. Blue/Brown (premium 2 systems)	+,-	Amplifier under driver seat, gray 22 pin plug, pins 9 - 20
Left Rear Speaker - With Amp	Gray/Green - Gray/Dk. Green	+,-	Amplifier under driver seat, gray 22 pin plug, pins 4 - 15
Right Rear Speaker - With Amp	Dk. Green/Green - Dk. Green/Gray	+,-	Amplifier under driver seat, gray 22 pin plug, pins 5 - 16
Left Rear Tweeter - With Amp	Dk. Green/Dk. Blue - Dk. Green/Tan	+,-	Amplifier under driver seat, gray 22 pin plug, pins 6 - 17
Right Rear Tweeter - With Amp	Gray/Dk. Blue - Gray/Tan	+,-	Amplifier under driver seat, gray 22 pin plug, pins pins 7 - 18

Item	Wire Color	Polarity	Wire Location
Center Channel - With Amp	Gray/Brown - Gray/Orange	+,-	Amplifier under driver seat, gray 22 pin plug, pins 8 - 19
Subwoofer - With Amp	Gry/Brn - Dk. Grn/Brn (coil 1); Gry/Wht - Dk. Grn/Wht (coil 2); Gry/Org - Dk. Grn/Org (coil 3) (premium 1 systems)	+,-	Amplifier under driver seat, gray 22 pin plug, pins 10 - 21 (coil 1); pins 11 - 22 (coil 2); pins 9 - 20 (coil 3)
Subwoofer - With Amp 2	Gray/Brown - Dk. Green/Brown (premium 2 systems)	+,-	Amplifier under driver seat, gray 22 pin plug, pins 11 - 22
Aux. Audio Input Left (+/-)	Green/Tan - Green/Dk. Blue	+,-	Radio, black 52 pin plug, pins 16 - 7
Aux. Audio Input Right (+/-)	Green/Blue - Green/Dk. Blue	+,-	Radio, black 52 pin plug, pins 6 - 7
RSE Audio Left (+/-)	Dk. Green/White - Gray/Orange (CD audio)	+,-	Radio, black 52 pin plug, pins 10 - 9
RSE Audio Right (+/-)	Gray/White - Gray/Orange (CD audio)	+,-	Radio, black 52 pin plug, pins 8 - 9

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Additional Wiring Notes

Item	Note
CAN Bus High	The CAN C high is also brown at the BCM above driver kick, black 48 pin plug (E), pin 25.
CAN Bus Low	The CAN C Low is also yellow at the BCM above driver kick, black 48 pin plug (E), pin 26.
CAN Bus High 2	The CAN IHS high is also white/green at the BCM above driver kick, white 48 pin plug (F), pin 12.
CAN Bus Low 2	The CAN IHS low is also white at the BCM above driver kick, white 48 pin plug (F), pin 11.
Parking Lights -	The resistance has also been found to be 590 ohms.