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Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	Violet/Red (40A)	+	BCM above passenger kick, black 4 pin plug (B), pin 3
Ground	(chassis ground)		
Starter Kill	Lt. Blue/Tan	+	BCM above passenger kick, black 24 pin plug (A), pin 19
Ignition Sense	Pink/White	+	BCM above passenger kick, black 48 pin plug (E), pin 27
PTS 1	Violet/Lt. Blue	+	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 glove box, white 3 pin plug, pin 1
CAN Bus Low	White/Blue (CAN C)	Data	Green CAN Junction Block behind glove box, white 3 pin plug, pin 2
CAN Bus High 2	White/Gray (CAN IHS)	Data	White CAN Junction Block under driver dash, green 3 pin plug, pin 1
CAN Bus Low 2	White/Orange (CAN IHS)	Data	White CAN Junction Block under driver dash, 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/Gray (10A)	+	OBD-Data Link Connector, black 16 pin plug, pin 16
OBD Ground	Black	-	OBD-Data Link Connector, black 16 pin plug, pin 4
OBD Connector	Black		Under Driver Dash, Near Hood Release
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
Power Unlock	(same as power lock)	- 100 Ohms	

2020 Dodge/Ram Charger(SmartKey) - Requested by: ampire.de



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Item	Wire Color	Polarity	Wire Location
Lock Motor	Lt. Green/Dk. Green	Reverse	BCM above passenger kick, white 48 pin plug (F), pin 2
Driver Unlock Motor	Tan/Lt. Green	Reverse	BCM above passenger kick, white 48 pin plug (F), pin 1
Passenger Unlock Motor	Violet/Lt. Green	Reverse	BCM above passenger kick, white 48 pin plug (F), pin 3
Factory Alarm Arm	(arms on lock with door open)		
Factory Alarm Disarm	(proximity key and push button)		
Parking Lights	White/Brown (LF); White/Orange (RF)	+	BCM above passenger 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 passenger 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 6 pin plug, pin 3
Parking Lights MUX	White/Brown	MUX	Headlight Switch, black 6 pin plug, pin 3
Hazards	White/Dk. Blue	-	BCM above passenger kick, blue 24 pin plug (G), pin 21
Turn Signal (Left)	White/Lt. Green (LF); White (LR)	+	BCM above passenger kick, 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 above passenger kick, black 24 pin plug (A), pin 13 (RF); black 48 pin plug (E), pin 2 (RR)
Headlight	White/Brown (relay isolate from switch)	- 660 Ohms	Headlight Switch, black 6 pin plug, pin 3
AutoLights	White/Brown (relay isolate from switch)	- 2000 Ohms (Off)	Headlight Switch, black 6 pin plug, pin 3
Reverse Light	White/Tan	+	BCM above passenger kick, white 48 pin plug (F), pin 41
Left Front Door Trigger	Violet	-	BCM above passenger kick, white 48 pin plug (F), pin 9
Right Front Door Trigger	Violet/White	-	BCM above passenger kick, white 48 pin plug (F), pin 23
Left Rear Door Trigger	Violet/Gray	-	BCM above passenger kick, white 48 pin plug (F), pin 27

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Right Rear Door Trigger	Violet/Yellow	-	BCM above passenger kick, black 48 pin plug (E), pin 5
Dome Light	Yellow/Violet	+	BCM above passenger kick, blue 24 pin plug (G), pin 14
Trunk/Hatch Pin	Violet/Orange	-	BCM above passenger kick, white 48 pin plug (F), pin 26
Hood Pin	Violet/Lt. Blue	-	BCM above passenger kick, black 24 pin plug (A), pin 11
Trunk/Hatch Release	Lt. Green/White	-	BCM above passenger kick, blue 24 pin plug (G), pin 8
Trunk-Hatch Release2	Lt. Green/White (alternate location)	-	Trunk Release Switch, black 4 pin plug, pin 2
Trunk Release Motor	Tan/Yellow	Reverse	BCM above passenger kick, white 48 pin plug (F), pin 4
Fuel Door Release	Lt. Green/Violet	+	Driver Kick, harness to rear
Tachometer	Dk. Blue/Tan (3.6L)	AC	Camshaft Position Sensor, engine driver side rear, black 4 pin plug, pin 1
Tachometer 2	Dk. Blue/Gray (5.7L, 6.2L, 6.4L)	AC	Camshaft Position Sensor, engine passenger side front, black 3 pin plug, pin 3
Fuel Pump	Dk. Blue/Orange	+	Fuel Pump Module under rear seat, black 5 pin plug, pin 5 (3.6L, 5.7L, 6.4L); gray 6 pin plug, pins 5 and 6 (6.2L)
Rear Defroster	Dk. Blue	+ Latched	A/C Heater Module behind glove box, white 24 pin plug, pin 18
Mirror Defroster	(CAN IHS)		
Left Front Heated Seat	(CAN IHS)		
Right Front Heated Seat	(CAN IHS)		
Heated Steering Wheel	(CAN IHS)		
Speed Sense	(wheel speed sensor)		
Brake Wire	Dk. Green/White	+	BCM above passenger kick, white 24 pin plug (D), pin 18

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Parking Brake	Dk. Green/White	-	BCM above passenger kick, black 48 pin plug (E), pin 11
Horn Trigger	Dk. Green/White	+	BCM above passenger kick, black 24 pin plug (A), pin 23
Wipers	Brown/Lt. Blue	+	BCM above passenger kick, black 24 pin plug (A), pin 12
Left Front Window (Up/Down)	Orange/Lt. Green - 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)	Tan/Yellow - Tan/Lt. Blue	A	Left Rear Window Switch, gray 6 pin plug, pins 2 - 3
Right Rear Window (Up/Down)	Orange/Brown - Orange/Violet	A	Right Rear Window Switch, gray 6 pin plug, pins 2 - 3
Sun Roof (Open/Close)	Orange/Tan - Orange/Lt. Blue (function with ignition on only)	-	Electronic Overhead Module, black 16 pin plug, pins 9 - 11
Memory Seat 1	Violet/Brown	MUX	Memory Set Switch, black 4 pin plug, pin 1
Memory Seat 2	(same as memory seat 1)		
Radio 12V	Red	+	Radio, black 52 pin plug, pin 44
Radio Ground	Black	-	Radio, black 52 pin plug, pin 43
Radio Ignition	Pink/Yellow (delayed accessory)	+	Cigar Lighter --or-- Driver Kick, door harness
Factory Amp Turn-on	(CAN IHS)		
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 (+/-)	Dk. Green/Tan - Dk. Green/Gray	+,-	Radio, black 52 pin plug, pins 48 - 52
Right Rear Speaker (+/-)	Dk. Green/Brown - Yellow/Gray	+,-	Radio, black 52 pin plug, pins 45 - 49
Left Front Speaker - With Amp	Gray/Violet - Gray/Yellow	+,-	Amplifier above driver kick, black 16 pin plug, pins 8 - 16 or white 22 pin plug, pins 22 - 21
Right Front Speaker - With Amp	Dk. Green/Violet - Dk. Green/Yellow	+,-	Amplifier above driver kick, black 16 pin plug, pins 7 - 15 or white 22 pin plug, pins 10 - 11

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Item	Wire Color	Polarity	Wire Location
Left Front Tweeter - With Amp	Gray/Orange - Gray/Yellow	+,-	Amplifier above driver kick, white 22 pin plug, pins 20 - 9 or 6 - 7
Right Front Tweeter - With Amp	Gray/Dk. Green - Gray/Lt. Green	+,-	Amplifier above driver kick, white 22 pin plug, pins 19 - 8 or 9 - 8
Left Rear Speaker - With Amp	Dk. Green/Tan - Dk. Green/Gray	+,-	Amplifier above driver kick, black 16 pin plug, pins 14 - 6 or gray 22 pin plug, pins 21 - 22
Right Rear Speaker - With Amp	Dk. Green/Brown - Yellow/Gray	+,-	Amplifier above driver kick, black 16 pin plug, pins 3 - 11 or white 22 pin plug, pins 4 - 5
Left Rear Tweeter - With Amp	Gray/Lt. Green - Gray/Dk. Green	+,-	Amplifier above driver kick, black 16 pin plug, pins 13 - 5 or white 22 pin plug, pins 2 - 3
Right Rear Tweeter - With Amp	Dk. Green/Lt. Green - Dk. Green/Gray	+,-	Amplifier above driver kick, black 16 pin plug, pins 4 - 12 or white 22 pin plug, pins 15 - 16
Left Rear Surround - With Amp	Dk. Green/Dk. Blue - Dk. Green/Tan	+,-	Amplifier above driver kick, white 22 pin plug, pins 17 - 18
Right Rear Surround - With Amp	Gray/Dk. Blue - Gray/Tan	+,-	Amplifier above driver kick, gray 22 pin plug, pins 11 - 10
Center Channel - With Amp	Gray/Brown - Gray/Orange	+,-	Amplifier above driver kick, white 22 pin plug, pins 10 - 21 or 19 - 20
Subwoofer - With Amp	Gray/Brown - Dk. Green/Brown (coil 1); Gray/White - Dk. Green/White (coil 2) (premium 1, 2)	+,-	Amplifier above driver kick, black 16 pin plug, pins 10 - 2 (coil 1); pins 9 - 1 (coil 2)
Subwoofer - With Amp 2	Gray/Brown - Dk. Green/Brown (premium 3)	+,-	Amplifier above driver kick, white 22 pin plug, pins 14 - 13
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



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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	6.5 or 6 x 9		Left Rear Shelf
Left Rear Tweeter	3.5		Left Rear Door and/or Left Rear Shelf
Right Rear Speaker	6.5 or 6 x 9		Right Rear Shelf
Right Rear Tweeter	3.5		Right Rear Door and/or Right Rear Shelf
Center Channel	3.5		Top Center of Dash
Subwoofer	8 or 10		Center of Rear Shelf and/or Right Side of Trunk