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Wiring Information

Item	Wire Color	Polarity	Wire Location
12 Volts	red (40A)	+	BCM under driver dash, black 4 pin plug (B), pin 3
Ground	(chassis ground)		
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
Data Bus	(INTERFACE MODULE IS REQUIRED FOR REMOTE START)		
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
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

2018 Dodge/Ram 1500(SmartKey) - Requested by: ampire.de



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Item	Wire Color	Polarity	Wire Location
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	
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
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 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
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

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Item	Wire Color	Polarity	Wire Location
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
Mirror Defroster	(CAN IHS)		
Left Front Heated Seat	(CAN IHS)		
Right Front Heated Seat	(CAN IHS)		
Speed Sense	(wheel speed sensor)		
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
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

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Item	Wire Color	Polarity	Wire Location
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
Memory Seat 2	(same as memory seat 1)	- resistor	
Radio 12V	red	+	radio, black 52 pin plug, pin 44
Radio Ground	black	-	radio, black 52 pin plug, pin 43
Radio Ignition	(CAN IHS)		
Radio Illumination	(CAN IHS)		
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 (+/-)	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
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

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Item	Wire Color	Polarity	Wire Location
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



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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 x 9		left rear door or side panel
Left Rear Tweeter	2.5		left rear roof
Right Rear Speaker	6 x 9		right rear door or side panel
Right Rear Tweeter	2.5		right rear roof
Center Channel	3.5		top center of dash
Subwoofer	8		under rear seat