

## 2016 Dodge/Ram 1500 (Smart Key) - North America

**Wiring Information**

Item	Wire Color	Polarity	Wire Location
12 Volts	red (40A)	+	BCM under driver dash, black 4 pin plug (B), pin 3
Starter	lt. blue/tan (for starter kill only)	+	BCM under driver dash, black 24 pin plug (A), pin 19
Second Starter	purple/brown		Ignition Node or Keyless Ignition Node Module, blk 6 pin plg, pin 4
Ignition	pink/white (for ignition sense only)	+	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
Data Bus	white/lt. green (Security K Line)	data	Ignition Node or Keyless Ignition Node Module, blk 6 pin plg, pin 5
CAN Bus High	gray (CAN IHS); gray/white (CAN C)	data	data link connector, black 16 pin plug, pins 3, 6
CAN Bus Low	white (CAN IHS); yellow (CAN C)	data	data link connector, black 16 pin plug, pins 11, 14
Power Lock	purple/lt. green (passenger door 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	5 wire	BCM under driver dash, white 48 pin plug (F), pin 2
Driver Unlock Motor	tan/lt. green	5 wire	BCM under driver dash, white 48 pin plug (F), pin 1
Passenger Unlock Motor	purple/lt. green	5 wire	BCM under driver dash, white 48 pin plug (F), pin 3
Factory Alarm Arm	(arms on lock with door open)		
Factory Alarm Disarm	(see disarm no unlock)		
Disarm No Unlock	(transponder and ignition)		
Parking Lights (+)	white/brown (LF); white/orange (RF)	+	BCM, black 24 pin plug (A), pin 4; white 24 pin plug (D), pin 3
Parking Lights (-)	white/brown (see Tech Doc 1082)	-1130 ohms	BCM under driver dash, blue 24 pin plug (G), pin 20
Hazards	white/dk. blue	-	BCM under driver dash, blue 24 pin plug (G), pin 21

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Turn Signal (Left)	white/lt. green (F); white (R)	+	BCM, white 24 pin plug (D), pin 14; white 48 pin plug (F), pin 40
Turn Signal (Right)	white/tan (F); white/lt. green (R)	+	BCM, black 24 pin plug (A), pin 13; black 48 pin plug (E), pin 2
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)	-2Kohm(off	BCM under driver dash, blue 24 pin plg (G), pin 20
Reverse Light	white/tan	+	BCM under driver dash, white 48 pin plug (F), pin 41
Left Front Door Trigger	purple	-	BCM under driver dash, white 48 pin plug (F), pin 9
Right Front Door Trigger	purple/white	-	BCM under driver dash, wht 48 pin plug (F), pin 23
Left Rear Door Trigger	purple/gray	-	BCM under driver dash, blu 24 pin plug (G), pin 18
Right Rear Door Trigger	purple/yellow	-	BCM under driver dash, blk 48 pin plug (E), pin 5
Dome Light	yellow/purple	+	BCM under driver dash, blue 24 pin plug (G), pin 14
Hood Pin	purple/lt. blue	-	BCM under driver dash, black 24 pin plug (A), pin 11
Tachometer	brown/stripe	ac	any fuel injector
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

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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, purple 5 pin plug, pins 4 - 5
Right Front Window (Up/Down)	orange/brown - orange/purple	A	Passenger Door Module, purple 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 (funct w/ign on only)	+	sunroof switch, black 4 pin plug, pins D - C
Memory Seat 1	purple/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/purple - gray/yellow	+,-	radio, black 52 pin plug, pins 47 - 51
Right Front Speaker (+/-)	dk. green/purple - 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
Center Channel (+/-)	gray/brown - gray/orange	+,-	amplifier under driver dash, black 16 pin plug, pins 3 - 11
Subwoofer (+/-)	gry/brn - dk grn/brn (1); gry/wht - dk grn/wht (2)	+,-	amplifier, black 16 pin plug, pins 14-6; wht 22 pin plug, pins 11-22
Aux. Audio Input Left (+/-)	lt. green/tan - lt. green/dk. blue	+,-	radio, black 52 pin plug, pins 16 - 7

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Aux. Audio Input Right (+/-)	lt. green/lt. blue - lt. green/dk. blue	+,-	radio, black 52 pin plug, pins 6 - 7
RSE Video (+/-)	dk. green/brown - dk. green/orange (rear view cam)	+,-	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
Satellite Radio 12 Volts	(built into radio)		

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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
Satellite Radio Tuner	(built into radio)		

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**Additional Wiring Notes**

Item	Note
Left Front Speaker (+/-)	On models with amplifier, the speaker wires are gray/purple - gray/yellow at the amplifier under driver dash, black 16 pin plug, pins 8 - 16. The tweeter wires are gray/orange - gray/yellow at the amplifier, white 22 pin plug, pins 20 - 9.
Left Rear Speaker (+/-)	On models with amplifier, the speaker wires are gray/lt. green - gray/dk. green at the amplifier under driver dash, black 16 pin plug, pins 13 - 5. The tweeter wires are tan/white - dk. green/gray at the amplifier, white 22 pin plug, pins 10 - 21.
Parking Lights (+)	The LR - RR are white/dk. blue - white/lt. blue (+) at the BCM under driver dash, white 48 pin plug (F), pin 32; black 48 pin plug (E), pin 4.
Right Front Speaker (+/-)	On models with amplifier, the speaker wires are dk. green/purple - dk. green/yellow at the amplifier under driver dash, black 16 pin plug, pins 7 - 15. The tweeter wires are gray/dk. green - gray/lt. green at the amplifier, white 22 pin plug, pins 19 - 8.
Right Rear Speaker (+/-)	On models with amplifier, the speaker wires are dk. green/lt. green - dk. green/gray at the amplifier under driver dash, black 16 pin plug, pins 4 - 12. The tweeter wires are dk. green/brown - yellow/gray at the amplifier, black 16 pin plug, pins 10 - 2.
Tachometer	On diesel models, use dk. blue/gray at the camshaft position sensor on driver side front of engine, black 3 pin plug, pin 2.