

**2016 Dodge/Ram Challenger (Smart Key) - North America**

Item	Wire Color	Polarity	Wire Location
<b>12 Volts</b>	red/yellow (40A)	+	BCM above passenger kick, black 4 pin plug (B), pin 3
<b>Ground</b>	(chassis ground)		
<b>Starter</b>	lt. blue/tan (for starter kill only)	+	BCM above passenger kick, black 24 pin plug (A), pin 19
<b>Ignition</b>	pink/white (for ignition sense only)	+	BCM above passenger kick, black 48 pin plug (E), pin 27 or 31
<b>Accessory</b>	brown/orange (for accessory sense only)	+	BCM above passenger kick, black 48 pin plug (E), pin 36
<b>PTS 1</b>	violet/lt. blue	+	Keyless Ignition Node (Start/Stop Button), black 6 pin plug, pin 4
<b>CAN Bus High</b>	Gray/White (CAN C)	Data	OBD-Data Link Connector, black 16 pin plug, pin 6
<b>CAN Bus Low</b>	Yellow (CAN C)	Data	OBD-Data Link Connector, black 16 pin plug, pin 14
<b>CAN Bus High 2</b>	Gray (CAN IHS)	Data	OBD-Data Link Connector, black 16 pin plug, pin 3
<b>CAN Bus Low 2</b>	White (CAN IHS)	Data	OBD-Data Link Connector, black 16 pin plug, pin 11
<b>OBD 12 Volts</b>	Red (10A)	+	OBD-Data Link Connector, black 16 pin plug, pin 16
<b>OBD Ground</b>	Black	-	OBD-Data Link Connector, black 16 pin plug, pin 4
<b>IMMO Data</b>	white/lt. green (Security K Line)	data	Keyless Ignition Node (Start/Stop Button), black 6 pin plug, pin 5
<b>Power Lock</b>	violet/lt. green (passenger door switch)	- 330 ohms	passenger window/door lock switch, green 10 pin plug, pin 8
<b>Power Unlock</b>	(same as power lock)	- 100 ohms	
<b>Lock Motor</b>	lt. green/dk. green	5 wire	BCM above passenger kick, white 48 pin plug (F), pin 2
<b>Driver Unlock Motor</b>	tan/lt. green	5 wire	BCM above passenger kick, white 48 pin plug (F), pin 1
<b>Passenger Unlock Motor</b>	violet/lt. green	5 wire	BCM above passenger kick, white 48 pin plug (F), pin 3
<b>Factory Alarm Arm</b>	(arms on lock with door open)		
<b>Factory Alarm Disarm</b>	(see disarm no unlock)		
<b>Disarm No Unlock</b>	(proximity key and push-button)		
<b>Parking Lights</b>	white/brown (LF); white/lt. blue (RF); white/gray (LR); white/orange (RR)	+	BCM, wht 24 pin plg (D), pin 1; blk 24 pin plg (A), pin 2; wht 48 pin plg (F), pin 32; blk 48 pin plg (E), pin 4
<b>Parking Lights -</b>	white (see Tech Doc 1082)	-1130 ohms	headlight switch, black 6 pin plug, pin 3
<b>Hazards</b>	white/dk. blue	-	BCM above passenger kick, blue 24 pin plug (G), pin 21
<b>Turn Signal (Left)</b>	white/gray (F); white/dk. green (R)	+	BCM above passenger kick, white 24 pin plug (D), pin 14; black 48 pin plug (E), pin 3
<b>Turn Signal (Right)</b>	white/gray (F); white/yellow (R)	+	BCM above passenger kick, black 24 pin plug (A), pin 13; white 48 pin plug (F), pin 42
<b>Headlight</b>	white (need to relay isolate the switch)	- 660 ohms	headlight switch, black 6 pin plug, pin 3 or BCM above passenger kick, blue 24 pin plug (G), pin 20
<b>AutoLights</b>	white (need to relay isolate the switch)	-2000 ohms (off)	headlight switch, black 6 pin plug, pin 3 or BCM above passenger kick, blue 24 pin plug (G), pin 20
<b>Reverse Light</b>	white/tan	+	BCM above passenger kick, white 48 pin plug (F), pin 41
<b>Left Front Door Trigger</b>	violet	-	BCM above passenger kick, white 48 pin plug (F), pin 9
<b>Right Front Door Trigger</b>	violet/white	-	BCM above passenger kick, white 48 pin plug (F), pin 23
<b>Dome Light</b>	yellow/violet	+	BCM above passenger kick, blue 24 pin plug (G), pin 14
<b>Trunk/Hatch Pin</b>	violet/orange	-	BCM above passenger kick, white 48 pin plug (F), pin 26
<b>Hood Pin</b>	violet/lt. blue	-	BCM above passenger kick, black 24 pin plug (A), pin 11
<b>Trunk/Hatch Release</b>	lt. green	- 560 ohms	BCM above passenger kick, blue 24 pin plug (G), pin 8
<b>Trunk Release Motor</b>	tan/yellow	5 wire	BCM above passenger kick, white 48 pin plug (F), pin 4

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<b>Item</b>	<b>Wire Color</b>	<b>Polarity</b>	<b>Wire Location</b>
<b>Tachometer</b>	NOT brown/white	ac	any fuel injector
<b>Clutch Pedal</b>	yellow/orange (interlock); dk. green/orange (upstop)	Tech Doc 10002	clutch switch, gray 3 pin plug, pins 2, 1
<b>Fuel Pump</b>	dk. blue/orange (3.6L, 5.7L, 6.4L)	+	Fuel Pump Module under rear seat, black 5 pin plug, pin 5
<b>Rear Defroster</b>	dk. blue/white	+ latched	A/C Heater Module behind glove box, white 24 pin plug, pin 18
<b>Mirror Defroster</b>	(CAN IHS)		
<b>Left Front Heated Seat</b>	(CAN IHS)		
<b>Right Front Heated Seat</b>	(CAN IHS)		
<b>Speed Sense</b>	(wheel speed sensor)		
<b>Brake Wire</b>	dk. green/white	+	BCM above passenger kick, white 24 pin plug (D), pin 18
<b>Parking Brake</b>	dk. green/white	-	BCM above passenger kick, black 48 pin plug (E), pin 11
<b>Horn Trigger</b>	dk. green/white	+	BCM above passenger kick, black 24 pin plug (A), pin 23
<b>Wipers</b>	brown/white	+	BCM above passenger kick, black 24 pin plug (A), pin 12
<b>Left Front Window (Up/Down)</b>	(not recommended because of auto window drop down)		
<b>Right Front Window (Up/Down)</b>	(not recommended because of auto window drop down)		
<b>Sun Roof (Open/Close)</b>	orange/tan - orange/lt. blue (function with ignition on only)	+	above driver kick, gray 24 pin plug, pins 16 - 4
<b>Radio 12V</b>	red/white	+	radio, black 52 pin plug, pin 44
<b>Radio Ground</b>	black	-	radio, black 52 pin plug, pin 43
<b>Radio Ignition</b>	(CAN IHS)		
<b>Radio Illumination</b>	(CAN IHS)		
<b>Factory Amp Turn-on</b>	(CAN IHS)		
<b>Left Front Speaker (+/-)</b>	gray/violet - gray/yellow	+,-	radio, black 52 pin plug, pins 47 - 51
<b>Right Front Speaker (+/-)</b>	dk. green/violet - dk. green/yellow	+,-	radio, black 52 pin plug, pins 46 - 50
<b>Left Rear Speaker (+/-)</b>	dk. green/tan - dk. green/gray	+,-	radio, black 52 pin plug, pins 48 - 52
<b>Right Rear Speaker (+/-)</b>	dk. green/brown - yellow/gray	+,-	radio, black 52 pin plug, pins 45 - 49
<b>Center Channel (+/-)</b>	gray/brown - gray/orange	+,-	amplifier above driver kick, white 22 pin plug, pins 10 - 21 or 19 - 20
<b>Subwoofer (+/-)</b>	gray/brown - dk. green/orange (1); gray/white - dk. green/white (2)	+,-	amplifier above driver kick, black 16 pin plug, pins 10 - 2; 9 - 1
<b>Aux. Audio Input Left (+/-)</b>	lt. green/tan - lt. green/dk. blue	+,-	radio, black 52 pin plug, pins 16 - 7
<b>Aux. Audio Input Right (+/-)</b>	lt. green/lt. blue - lt. green/dk. blue	+,-	radio, black 52 pin plug, pins 6 - 7
<b>RSE Video (+/-)</b>	dk. green/brown - dk. green/orange (rear view camera video)	+,-	radio, black 52 pin plug, pins 31 - 32
<b>Satellite Radio 12 Volts</b>	(built into radio)		
<b>Headunit</b>	irregular		center of dash
<b>Left Front Speaker</b>	6 x 9		left front door
<b>Left Front Tweeter</b>	3.5		left front dash

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Item	Wire Color	Polarity	Wire Location
Right Front Speaker	6 x 9		right front door
Right Front Tweeter	3.5		right front dash
Left Rear Speaker	6.5 or 3.5		left rear shelf
Left Rear Tweeter	3.5		left rear side panel
Right Rear Speaker	6.5 or 3.5		right rear shelf
Right Rear Tweeter	3.5		right rear side panel
Center Channel	3.5		top center of dash
Subwoofer	8 or 10		center of rear shelf or spare tire well of trunk
Satellite Radio Tuner	(built into radio)		

**Wiring Photo and Notes: Fuel Pump**

On 6.2L models, it is dk. blue/orange (+) at the Fuel Pump Module under rear seat, gray 6 pin plug, pins 5 and 6.

**Wiring Photo and Notes: Left Front Speaker (+/-)**

On models with amplifier, the speaker wires are gray/purple - gray/yellow at the amplifier above driver kick, black 16 pin plug, pins 8 - 16 or white 22 pin plug, pins 22 - 21. The tweeter wires are gray/orange - gray/yellow at the amplifier, white 22 pin plug, pins 20 - 9 or 6 - 7.

**Wiring Photo and Notes: Right Front Speaker (+/-)**

**Wiring Photo and Notes: Right Front Speaker (+/-)**



On models with amplifier, the speaker wires are dk. green/purple - dk. green/yellow at the amplifier above driver kick, black 16 pin plug, pins 7 - 15 or white 22 pin plug, pins 10 - 11. The tweeter wires are gray/dk. green - gray/lt. green at the amplifier, white 22 pin plug, pins 19 - 8 or 9 - 8.

**Wiring Photo and Notes: Left Rear Speaker (+/-)**



On models with amplifier, the speaker wires are dk. green/tan - dk. green/gray at the amplifier above driver kick, black 16 pin plug, pins 14 - 6 or gray 22 pin plug, pins 22 - 21. The tweeter wires are dk. green/dk. blue - dk. green/tan at the amplifier, black 16 pin plug, pins 13 - 5 or white 22 pin plug, pins 2 - 3.

**Wiring Photo and Notes: Right Rear Speaker (+/-)**



On models with amplifier, the speaker wires are dk. green/brown - yellow/gray at the amplifier above driver kick, black 16 pin plug, pins 3 - 11 or white 22 pin plug, pins 5 - 4. The tweeter wires are gray/dk. blue - gray/tan at the amplifier, black 16 pin plug, pins 4 - 12 or white 22 pin plug, pins 15 - 16.

**Wiring Photo and Notes: Subwoofer (+/-)**

**Wiring Photo and Notes: Subwoofer (+/-)**



On premium 3 audio systems, they are at the amplifier, white 22 pin plug, pins 18 - 17; 14 - 13.

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