

2019 Ford Ranger (Smart Key) - North America

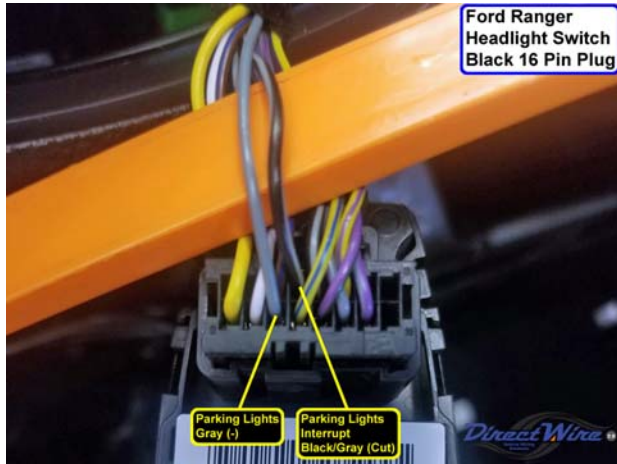
Item	Wire Color	Polarity	Wire Location
12 Volts	Brown/Red (50A)	+	BCM-Dash Fuse Box, black 22 pin plug (B), pin 22
Ground	(chassis ground)		
Starter Kill	Brown/Green	+	Underhood Fuse Box, 57 pin plug (A), pin 8
Ignition Sense	Yellow/Violet to Yellow	+	Driver Kick, black 59 pin plug (C237), pin 6
PTS 1	Blue/White	+	Start Stop Switch, black 6 pin plug, pin 1
PTS 2	Yellow/Orange	-	Start Stop Switch, black 6 pin plug, pin 6
CAN Bus High	Blue (HS1 CAN)	Data	Gateway Module on OBD-Data Link Connector, black 24 pin plug, pin 20
CAN Bus Low	White (HS1 CAN)	Data	Gateway Module on OBD-Data Link Connector, black 24 pin plug, pin 19
CAN Bus High 2	Gray/Orange (MS CAN)	Data	Gateway Module on OBD-Data Link Connector, black 24 pin plug, pin 23
CAN Bus Low 2	Violet/Orange (MS CAN)	Data	Gateway Module on OBD-Data Link Connector, black 24 pin plug, pin 22
CAN Bus High 3	Green/Orange (HS2 CAN)	Data	Gateway Module on OBD-Data Link Connector, black 24 pin plug, pin 18
CAN Bus Low 3	Gray/Blue (HS2 CAN)	Data	Gateway Module on OBD-Data Link Connector, black 24 pin plug, pin 17
OBD 12 Volts	White/Red (10A)	+	Gateway Module on OBD-Data Link Connector, black 24 pin plug, pin 13
OBD Ground	Black/Blue	-	Gateway Module on OBD-Data Link Connector, black 24 pin plug, pin 1
IMMO Antenna	(PATS antenna in the center console, under the rear cup holder)		
Power Lock	Gray/Yellow	-	Driver Kick, 40 pin plug (C275), pin 17
Power Unlock	Violet/Gray	-	Driver Kick, 40 pin plug (C275), pin 15
Power Unlock - Driver Door	Violet/Brown (key unlock)	-	Driver Kick, 17 pin plug (C214), pin 12
Lock Motor	Gray/Brown	Reverse	Driver Kick, 40 pin plug (C275), pin 7
Driver Unlock Motor	Violet/Green	Reverse	Driver Kick, 17 pin plug (C214), pin 14
Passenger Unlock Motor	Brown/Green	Reverse	Driver Kick, 40 pin plug (C275), pin 5
Factory Alarm Arm	(factory remote only)		
Factory Alarm Disarm	(proximity key and push button)		
Parking Lights	Green/Orange or Brown/Yellow (L); Brown/Yellow (R)	+	BCM-Dash Fuse Box, black 40 pin plug (C), pin 30 (L); pin 37 (R)
Parking Lights -	Gray	-	Headlight Switch, black 16 pin plug, pin 11
Parking Lights Interrupt	Black/Gray	Cut	Headlight Switch, black 16 pin plug, pin 4
Hazards	Brown/White or Brown/Yellow	-	BCM-Dash Fuse Box, black 52 pin plug (G), pin 19
Turn Signal (Left)	Blue/Green (LF); Gray/Orange (LR)	+	BCM-Dash Fuse Box, black 40 pin plug (C), pin 39 (LF); blue 52 pin plug (D), pin 26 (LR)
Turn Signal (Right)	Yellow/Violet (RF); Green/Orange (RR)	+	BCM-Dash Fuse Box, black 40 pin plug (C), pin 38 (RF); blue 52 pin plug (D), pin 52 (RR)
Headlight	Yellow/Blue	-	Headlight Switch, black 16 pin plug, pin 12
AutoLights	Violet/Green	Cut	Headlight Switch, black 16 pin plug, pin 13
Reverse Light	Green/Brown	+	BCM-Dash Fuse Box, 36 pin plug (F), pin 11
Left Front Door Trigger	Green/Violet	- N.C.	Driver Kick, 17 pin plug (C214), pin 7
Right Front Door Trigger	White to White/Blue	- N.C.	Driver Kick, 40 pin plug (C275), pin 12
Left Rear Door Trigger	Green	- N.C.	BCM-Dash Fuse Box, blue 52 pin plug (D), pin 46
Right Rear Door Trigger	Yellow	- N.C.	BCM-Dash Fuse Box, blue 52 pin plug (D), pin 19
Dome Light	Gray/Violet	+	Driver Kick, 40 pin plug (C275), pin 28

2019 Ford Ranger (Smart Key) - North America			
Item	Wire Color	Polarity	Wire Location
Hood Pin	Blue/Orange	- N.C.	BCM-Dash Fuse Box, black 40 pin plug (C), pin 14
Trunk/Hatch Release	(tailgate locks/unlocks with doors)		
Tachometer	Brown/Blue (2.3L)	AC	Camshaft Position Sensor, engine driver side rear, 3 pin plug, pin 3
Fuel Pump	Violet/Green	+	Underhood Fuse Box, 57 pin plug (A), pin 25
Rear Defroster	Brown/Blue	- Latched	Driver Kick, black 59 pin plug (C237), pin 50
Mirror Defroster	(same as rear defroster)		
Wiper Deicer	(same as rear defroster)		
Left Front Heated Seat	(MS CAN)		
Right Front Heated Seat	(MS CAN)		
Speed Sense	Brown/Green (2.3L)	AC	PCM next to underhood fuse box, 95 pin plug, pin 68
Brake Wire	Violet/White	+	Driver Kick, black 59 pin plug (C237), pin 11
Parking Brake	White/Violet	-	BCM-Dash Fuse Box, blue 52 pin plug (D), pin 47
Horn Trigger	Green/White	-	Horn Switch-Clock Spring, gray 18 pin plug, pin 9
Horn - Factory Alarm	Gray/Violet	+	BCM-Dash Fuse Box, 36 pin plug (F), pin 34
Wipers	(LIN)		
Left Front Window (Up/Down)	Blue/Gray - Yellow/Violet	A	Power Window Main Switch, 16 pin plug, pins 14 - 15
Right Front Window (Up/Down)	Brown/Yellow - Green/Orange	A	Driver Kick, 14 pin plug (C213), pins 3 - 10
Left Rear Window (Up/Down)	Green/Violet - Brown	A	Driver Kick, 17 pin plug (C214), pin 17 - 16
Right Rear Window (Up/Down)	White/Violet - Gray	A	Driver Kick, 14 pin plug (C213), pins 12 - 11
Radio 12V	White/Brown or Red	+	Radio, black 24 pin plug, pin 1
Radio Ground	Black/Violet	-	Radio, black 24 pin plug, pin 13
Radio Ignition	Gray/Blue (delayed accessory)	+	Driver Kick, 40 pin plug (C275), pin 3
Factory Amp Turn-on	Violet/Red	+	Radio, black 26 pin plug, pin 18 (audio input is A2B digital audio)
Power Antenna	Green/Violet	+	Radio, black 24 pin plug, pin 2
Left Front Speaker (+/-)	Blue - Gray/Brown	+,-	Radio, black 24 pin plug, pins 22 - 10
Right Front Speaker (+/-)	Yellow/Orange - Green/Brown	+,-	Radio, black 24 pin plug, pins 23 - 11
Left Rear Speaker (+/-)	Gray/Violet - Brown/Green	+,-	Radio, black 24 pin plug, pins 21 - 9
Right Rear Speaker (+/-)	Green/Violet - Gray	+,-	Radio, black 24 pin plug, pins 24 - 12
Left Front Speaker - With Amp	White - White/Brown	+,-	Amplifier under rear of center console, black 20 pin plug, pins 17 - 7
Right Front Speaker - With Amp	White/Violet - White/Orange	+,-	Amplifier under rear of center console, black 20 pin plug, pins 16 - 6
Left Front Tweeter - With Amp	Blue/Gray - Green/Brown	+,-	Radio, black 24 pin plug, pins 22 - 10
Right Front Tweeter - With Amp	Green/Violet - White/Orange	+,-	Radio, black 24 pin plug, pins 23 - 11
Left Rear Speaker - With Amp	White/Green - Brown/Yellow	+,-	Amplifier under rear of center console, black 20 pin plug, pins 20 - 10
Right Rear Speaker - With Amp	Brown/White - Brown/Blue	+,-	Amplifier under rear of center console, black 20 pin plug, pins 18 - 8
Center Channel - With Amp	Brown/Blue - White	+,-	Radio, black 24 pin plug, pins 21 - 9
Subwoofer - With Amp	Green/Violet - Gray (coil 1); White - Blue/Green (coil 2)	+,-	Amplifier under rear of center console, black 20 pin plug, pins 15 - 5 (coil 1); pins 19 - 9 (coil 2)

2019 Ford Ranger (Smart Key) - North America

Item	Wire Color	Polarity	Wire Location
Aux. Audio Input Left (+/-)	Blue - Yellow/Green (w/o SYNC)	+,-	Radio, black 24 pin plug, pins 5 - 18
Aux. Audio Input Right (+/-)	Blue/Green - Yellow/Green (w/o SYNC)	+,-	Radio, black 24 pin plug, pins 17 - 18
Rearview Camera Video	White/Green - Blue/Gray	+,-	SYNC Module right of radio, black 54 pin plug, pins 14 - 15
RSE Audio Left (+/-)	Blue - Gray/Orange (SYNC audio)	+,-	Radio, black 26 pin plug, pins 12 - 25
RSE Audio Right (+/-)	Violet/Green - Brown/White (SYNC audio)	+,-	Radio, black 26 pin plug, pins 13 - 26

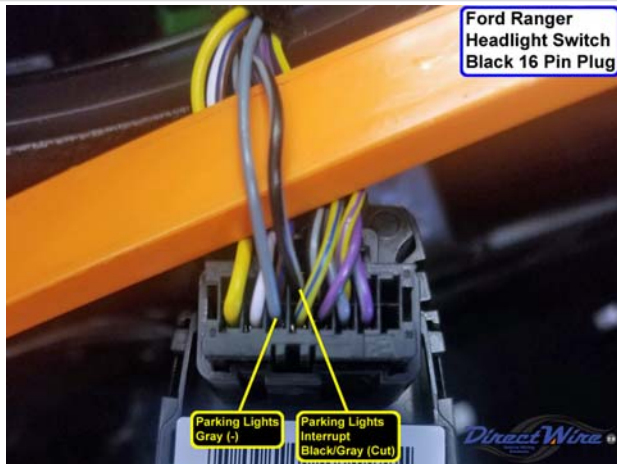
Wiring Photo and Notes: Parking Lights -



Ford Ranger
Headlight Switch
Black 16 Pin Plug

(see Tech Doc 1096)

Wiring Photo and Notes: Parking Lights Interrupt

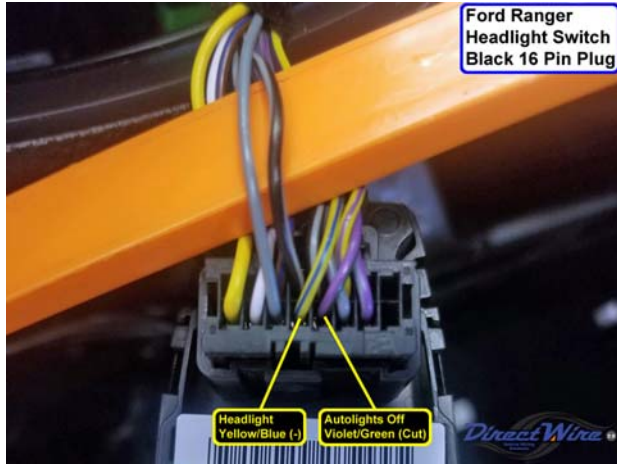


Ford Ranger
Headlight Switch
Black 16 Pin Plug

(see Tech Doc 1096)

Wiring Photo and Notes: Headlight

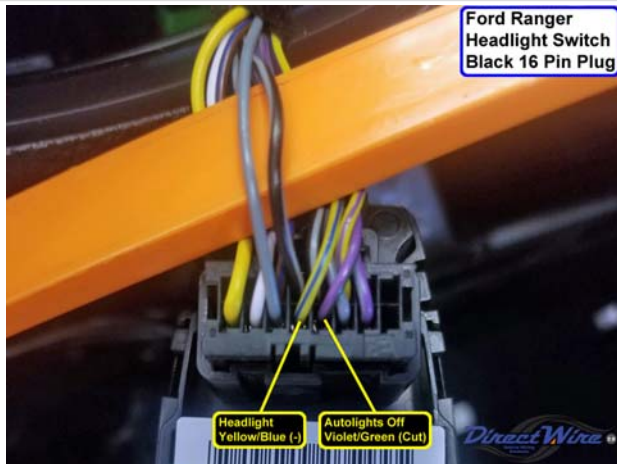
Wiring Photo and Notes: Headlight



Ford Ranger
Headlight Switch
Black 16 Pin Plug

There are no notes for this wire.

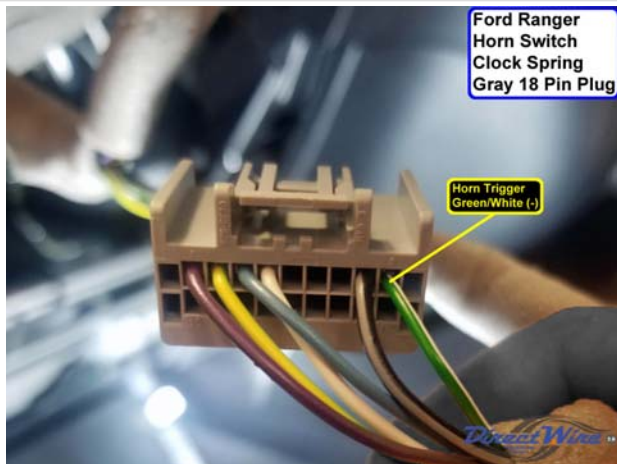
Wiring Photo and Notes: AutoLights



Ford Ranger
Headlight Switch
Black 16 Pin Plug

There are no notes for this wire.

Wiring Photo and Notes: Horn Trigger



Ford Ranger
Horn Switch
Clock Spring
Gray 18 Pin Plug

There are no notes for this wire.