



Virtual Blade Grille LED Light Bar Installation Instructions

Congratulations on your purchase of a high quality PUTCO product. Should you need any application or technical assistance, feel free to call us at: 1-800-247-3974 Monday-Friday 8:30 a.m. - 5:00 p.m. (Central Standard Time)
Contact your PUTCO dealer for other quality accessories.



KIT CONTENTS:	
DESCRIPTION	QTY
LED Light Bar & Driver Box.	1
Remote Kit (Module & Wireless Remote).	1
Zip-Ties.	6
Add a Fuse*	1
Scotch locks*	3
Spade Female connectors *	4
Ground Terminal	1

Tools Required:

- Zip Ties
- Electrical Pliers
- Electrical Tape
- Ratchet wrench with socket set
- Screwdriver

Read These Instructions Carefully and Verify the Kit Contents Above Before Continuing installation. Additional Tools May Be Required Depending on the Vehicle.

MOUNTING STEPS

STEP #1

Unplug the light bar from the driver by spinning the plugs.

(This will facilitate the routing of the wiring into your grille as well as maneuvering the light bar around).



PUTCO

STEP #2 - Identify the desired mounting location of the light bar(s) and zip-tie it. Make sure there is a solid grille structure that you can zip-tie to in all 3 locations at each end of the light bar and right at the center. Make sure you center it with the grille of your truck and firmly zip-tie once its centered correctly.



(*Lattice endcaps* shown) Left / Center / Right.



The lattice clips allow the zip-ties to be hidden behind the clip. It also allows the zip tie to attach vertically or horizontally to the grille structure that you are attaching to.

NOTE: Removing the grille is not required in most vehicle applications but verify that you have clearance to access the wires and zip ties when routed behind the grille.



WIRING STEPS

STEP #3 - Reconnect the Light bar to the driver.

Fish the blade wires through the grille and reconnect them to the driver box.

STEP #4 – DRL Connections.

A- Connect the **Red** wire from the light bar driver box to the Fuse Box by using the **add a fuse connector**.
(Note: If unable to connect to the battery, you could connect this wire to a (+) wire DRL / Turn signal).

B- Connect your **Black** wire to the Ground (-) at the Battery.

BLADE LIGHT BAR DIAGRAM			
Polarity	Wire Color	Recommended Connection	Install with the following hardware provided
+	RED	Fuse Box or DRL wire	"Add a Fuse Connector".
-	BLACK	Ground Terminal at the Battery	"Ring Terminal".
The following wires are for programing the lightbar to the preferred style and do NOT require any permanent wiring.			
-	GREEN	Briefly "Tap" The negative terminal or any (-) Ground to switch between the following:	Star-up Color and Style selection.
-	ORANGE		DRL Color and Style selection.

STEP #5 – Programing.

To program the desired Start-up sequence touch or tap the negative terminal of your battery while the light bar is turned ON and it will switch the Pattern, Sequence, or color.

DRL and Start up.

- **Green** Wire will change the Start-up sequence (Amber or White with two different styles each).
- **Orange** Wire will change the Daytime Running Light (Amber or White in with different styles each).

This finalizes the wiring installation for the Virtual Blade Light Bar when used only as a DRL, don't forget to tape all your connections including the programing wires that aren't connected. And route all your wires away to prevent any damage with pinching or heat.

THE FOLLOWING WIRING IS NOT REQUIRED IF THE STROBE “WORK BLADE” FUNCTIONS ARE NOT DESIRED.



STEP #6 – Connecting your Wireless Remote Module.

Using the *Scotch Locks* and *Spade connectors* provided, connect the following wires;

- A- Connect the Power & Ground wires to the existing connections.**
- B- Connect the White wire on the Blade driver with the Blue wire on the module.**
- C- Connect the Orange wire on the Blade driver with the Yellow wire on the module.**

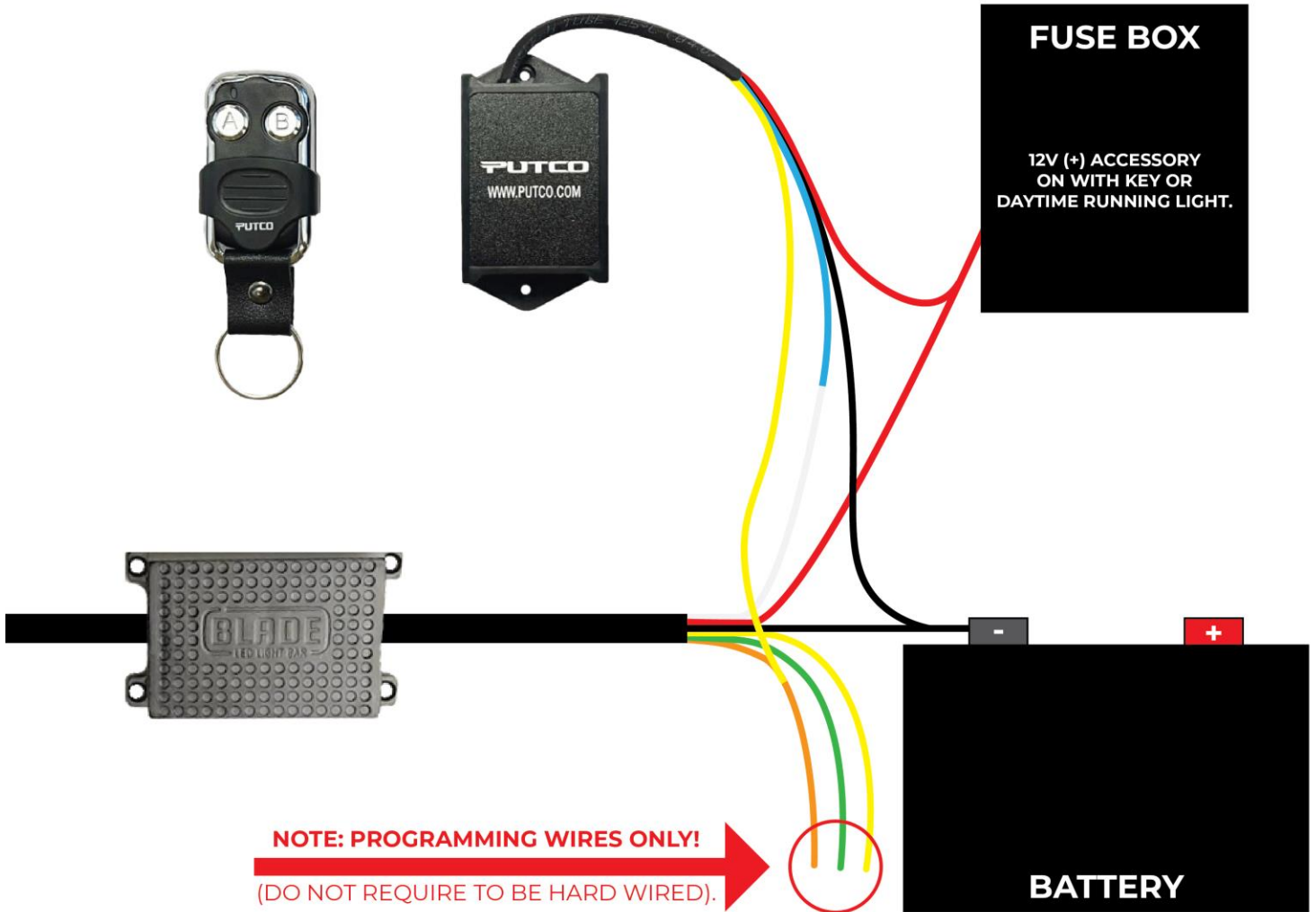
Please reference the chart and wiring diagram below.

WORK BLADE STROBE WITH WIRELESS REMOTE			
POLARITY	LIGHT BAR DRIVER	REMOTE MODULE	FUNCTION
+	RED	RED	Powers the light bar and the remote module.
-	BLACK	BLACK	Grounds the light bar and the remote module.
+	WHITE	BLUE	Powers the Strobe "Work Blade" Function. "Button A" on the remote.
-	ORANGE	YELLOW	Switches the Strobe Pattern "Button B" on the remote.

STEP #5 – Programing.

- **Yellow** Wire will change the speed of the Strobe (Up-to 4 different speeds for each strobe).
 - **Orange** Wire will change the Strobe Style (Up-to 12 different strobe style selections).
- You can wirelessly change the Strobe pattern by wiring it to the orange wire on the Light Bar. And pressing the Button. the wireless remote.

PUTCO



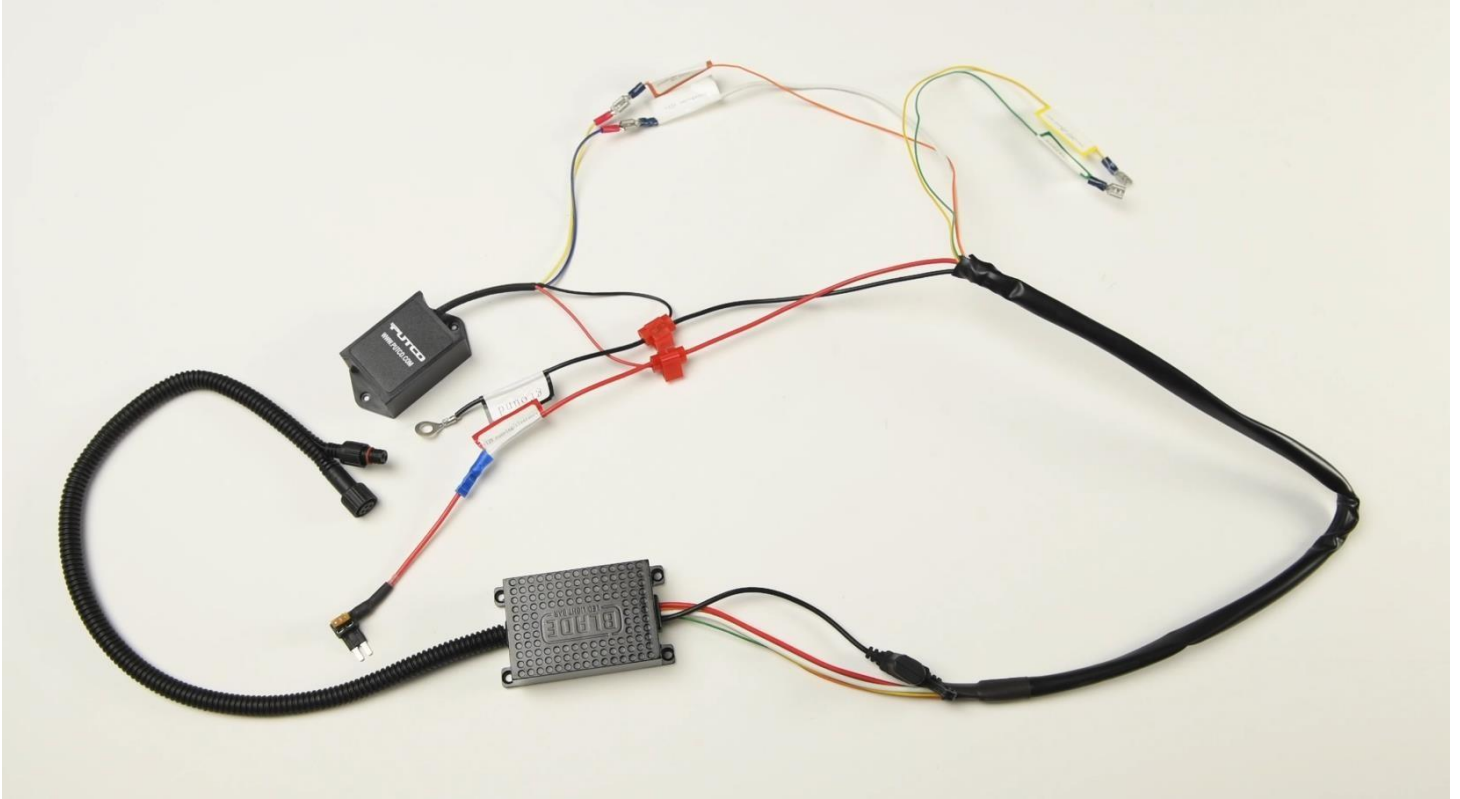
This finalizes the wiring installation for the Virtual Blade Light Bar with Work Blade Strobe Functions, don't forget to tape all your connections including the programming wires that aren't connected. And route all your wires away to prevent any damage with pinching or heat.

Got any questions, please feel free to contact us via our Live Chat (Monday to Friday 8:30AM to 5:00PM Central Time) or contact us at 1-800-247-3974, for installation videos please visit <https://www.putco.com/product-support/>

THANK YOU FOR CHOOSING PUTCO!

Additional References:

Actual image of diagram.



Fuse locations

Make	Year	Recommended location for DRL Red Wire (+)
Ford Ranger	2019-2022	Fuse 27
Ford F-150	2021-2022	Scotch Lock Orange DRL Headlight wire.
Ford F-150	2015-2020	Fuse 113
Ford Super Duty	2017-2019	Fuse 34
Ford Super Duty	2020-2022	Fuse 17