



EXCALIBUR

PUTCO®



For proper installation and best possible fit, please read all instructions BEFORE you begin.



Important Information

BEFORE you begin the installation process:

- Carefully read all instructions.
- Verify that all parts are included by checking the contents of your kit.

If any parts are missing or appear damaged, please contact our customer service team for assistance.

Customer Service

For support, please contact the Putco team, available Monday to Friday 8:30 AM to 5PM (Central Time).

1 800 247 3974

support@putco.com

Supported Vehicles

| MAKE | MODEL | YEAR |
|------|-------|-------|
| Ford | F-250 | 2023+ |

Recommended Tools + Supplies

| | | |
|-------------------|-------------------|-----------------|
| Microfiber cloth | Isopropyl alcohol | T25 driver |
| 10mm socket | 8mm socket | Diagonal pliers |
| Claw grabber tool | Trim removal tool | |



Kit Contents

| | | |
|-----------------------|-------------|-------------|
| Light bar | Driver box | Zip ties |
| Plug and play harness | Foam gasket | Wire shroud |



Plug and Play Harness Installation

1. Remove taillights to install plug and play harness.
2. Carefully remove both the passenger and driver side tail lamps by removing the two 8mm bolts using a socket wrench.



3. Fish the wire harness up from below the tailgate and out the taillight holes on each side of the truck. The thicker side of the harness with 2 wires goes to the driver side taillight if not otherwise labeled.



4. Disconnect the factory harness from the taillight. Now plug the female end of the in the Putco quick disconnect harness into the tail lamp and the male harness into the factory harness. Repeat on the other side. Reattach the taillights to the truck.



5. If your 52900XX wire harness ends in -26 or -32 you must also install a wire harness that pulls reverse signal from the 7-pin trailer connector.
6. Push the tab on each side of the trailer connector to release it, pull it out and disconnect it. Connect the Putco T harness and then push the wires back inside the bumper.

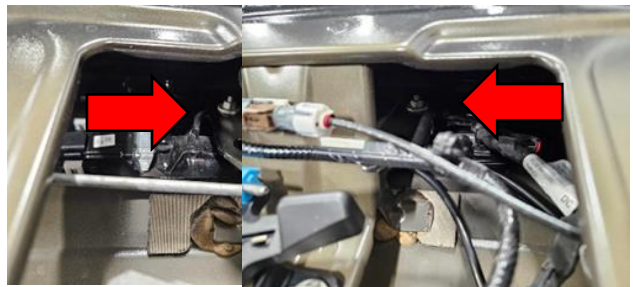


Lightbar Installation

1. Lower the tailgate.
2. Remove the access panel by removing the eight T25 bolts.
3. Remove the access panel.



4. Remove the two 10mm nuts from behind the tailgate handle.
5. Using a trim tool gently pop the tailgate handle trim bezel loose. It is held in place with 4 clips, one in each corner.



6. Hold the light bar up to the truck so you can see how it fits the contours of the tailgate.
7. Clean the tailgate surface using a clean microfiber cloth and some isopropyl alcohol to ensure the lightbar makes a good bond.



8. Peel off the adhesive tape backing on the back of the lightbar.



10. Fish the wires from the lightbar through the bottom of the tailgate handle opening and into the driver side of the tailgate.
11. With the help of a friend, place the lightbar onto the tailgate. If the lightbar looks properly aligned, press firmly on all areas of the lightbar for several seconds.



12. Clean the edge of the tailgate handle opening.
13. Peel the adhesive backing off the included foam gasket.
14. Attach included $\frac{1}{4}$ " foam gasket around the edge of the tailgate handle opening.



15. Once the light bar and foam strips are installed, carefully reinstall the handle bezel by pushing it under the top trim piece then align the 4 clips and push.
16. Open the tailgate and reinstall the two 10mm nuts.



17. Peel the tape off the shroud.
18. Insert the protective wire shroud between the lightbar and the handle bezel. Push until it securely sticks.



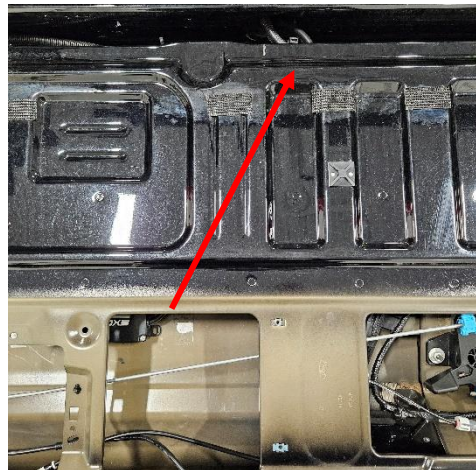
18. Clean the surface on the inside of the tailgate.
19. Peel off the 3M tape backing on the back of the driver box.
20. Mount the driver box inside the tailgate on the flat section and against the internal wall. Press firmly for several seconds.



15. Connect the light bar to the driver box. Make sure the pins align, do not force the connectors.



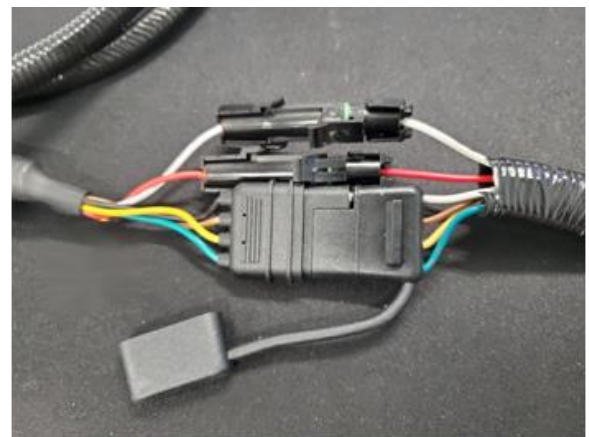
16. Using a flexible grabber tool or stiff piece of wire, fish the long (30') wires from the driver box through to the bottom of the tailgate.



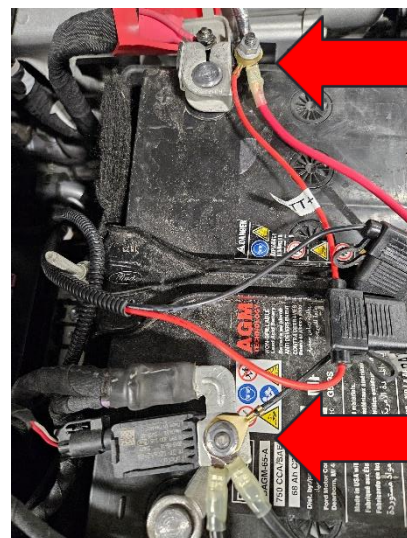
17. Fish the long wires that are now at the bottom of the tailgate through the opening in the bumper.



18. Connect the plug and play 4- pin connector and the light bars 4-pin connector as well as the weatherpack connectors.
19. We recommend applying 1-2 grams of dielectric grease on the 4-pin connector to increase water resistance. Use zip ties to bundle and secure any extra wire.



20. Run the Batt+, Batt – and ACC wires from the rear bumper into the **passenger** side of the engine bay securing to the frame every 16 inches with zip ties. Avoid hot areas and pinch points.
21. Connect the red Batt+ ring terminal to the positive battery post. Connect the Batt- ring terminal to the negative battery post.

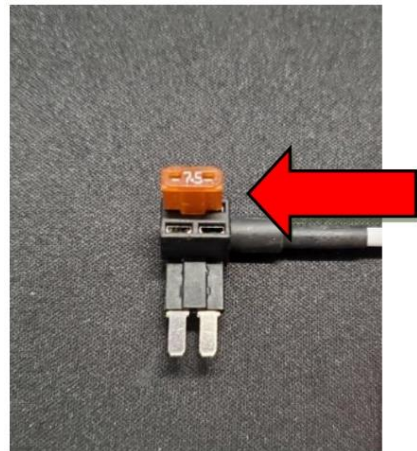


22. Connect the ACC wire to a fuse circuit which is on when the truck turns on, and is off when the truck turns off, such as #21, Vehicle power 1, depending on trim level.



23. The fuse you take out of the fuse box goes into the bottom slot of the ACC connector.

24. Reinstall the fuse box cover.



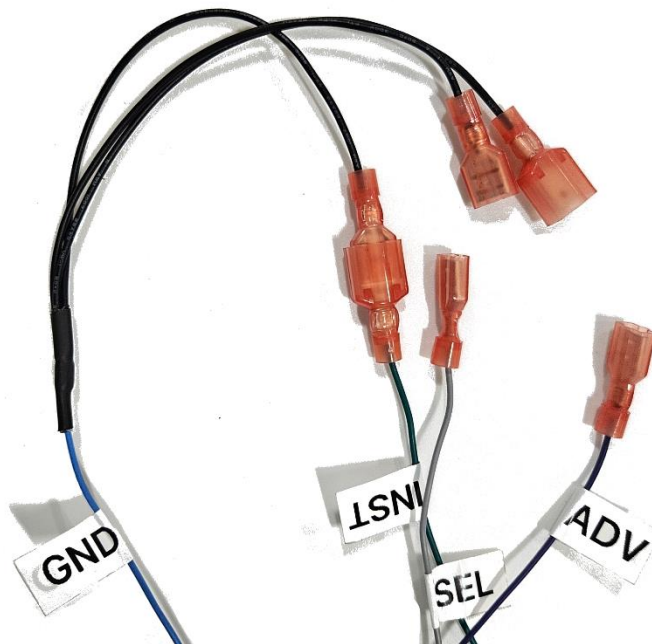
INSTALLATION MODE

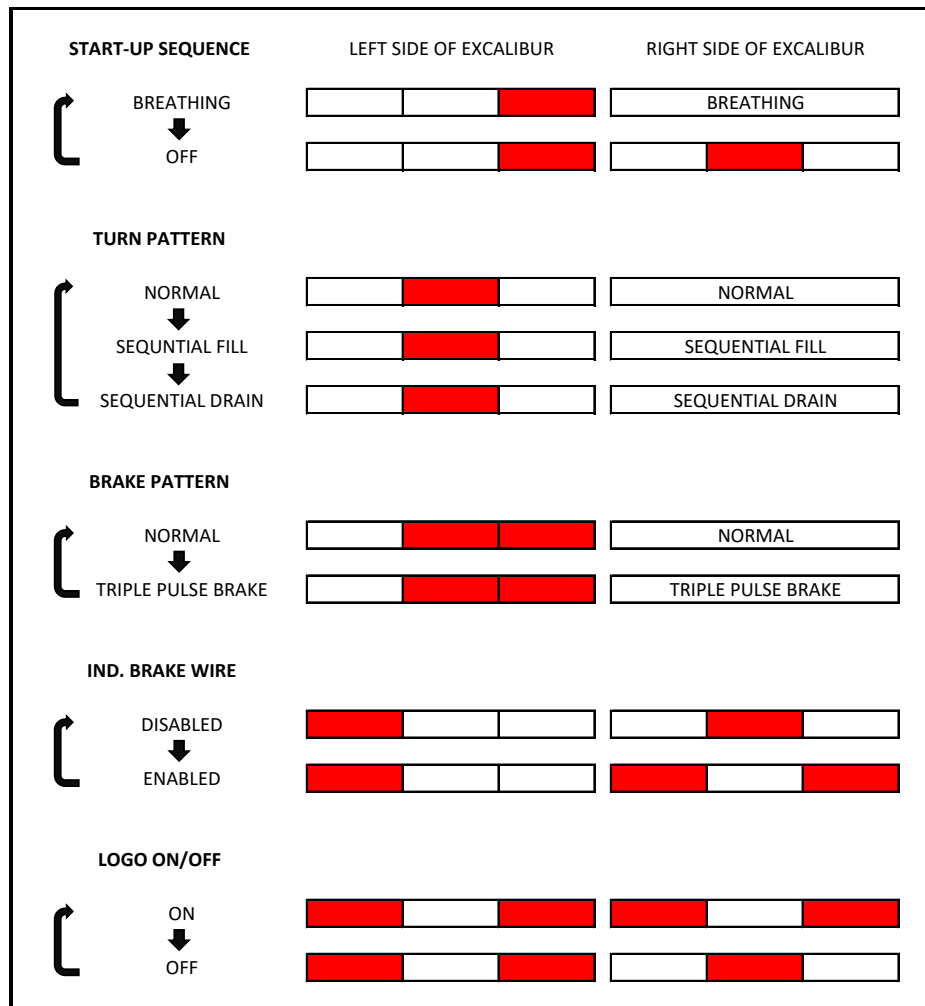
When you install your Excalibur, you can select between several different options which are shown in the table below. These options are remembered and only need to be set once.

| # | Start-Up | Turn Pattern | Brake Pattern | Independent Brake | Logo |
|---|-----------|--------------|---------------|-------------------|------|
| 1 | Breathing | Normal | Normal | Disabled | On |
| 2 | Off | Chase | Triple Pulse | Enabled | Off |
| 3 | | Scan | | | |

NOTE: If you have a 529026 harness, independent brake needs set to enabled!

1. To enable the start-up sequence, sequential turns and triple pulse brake, the OEM_SEL wire must be connected to ground. If it is cut, the extra modes are disabled.
2. To reset the light bar to factory settings, turn on your truck or apply 12V to the ACC wire. Next hold the SEL wire to ground for 3 seconds. All settings will be erased and your lightbar will flash reverse 3 times and return to default settings.
3. To enter installation mode, connect the male spade connector labeled INST into the female spade connector labeled GND.
4. To change your selection, tap the SEL wire to ground, if you go past the setting you want, simply tap the SEL wire to ground again until you get back to the desired setting.
5. Once you are happy with your selection, tap ADV to ground to move on to the next category. The left side of the light bar will show you what category you are currently choosing, and the right side will show you what your current selection is.
6. When you are happy with your selections disconnect the INST wire from ground.
7. Bundle the excess programming wires and wrap with electrical tape when not in use.





The Excalibur light bar can be wired with the Putco 4-button remote (sold separately) for easier adjustment of its settings. To connect the Putco remote:

1. Connect the **red** wire to the tan spade connector that runs to the add-a-fuse connector.
2. Connect the **black** wire to one of the female spade connectors labeled ground.
3. Connect the **grey** wire on the remote box to the **ADV** spade connector.
4. Connect the **orange** wire on the remote to the **SEL** spade connector.

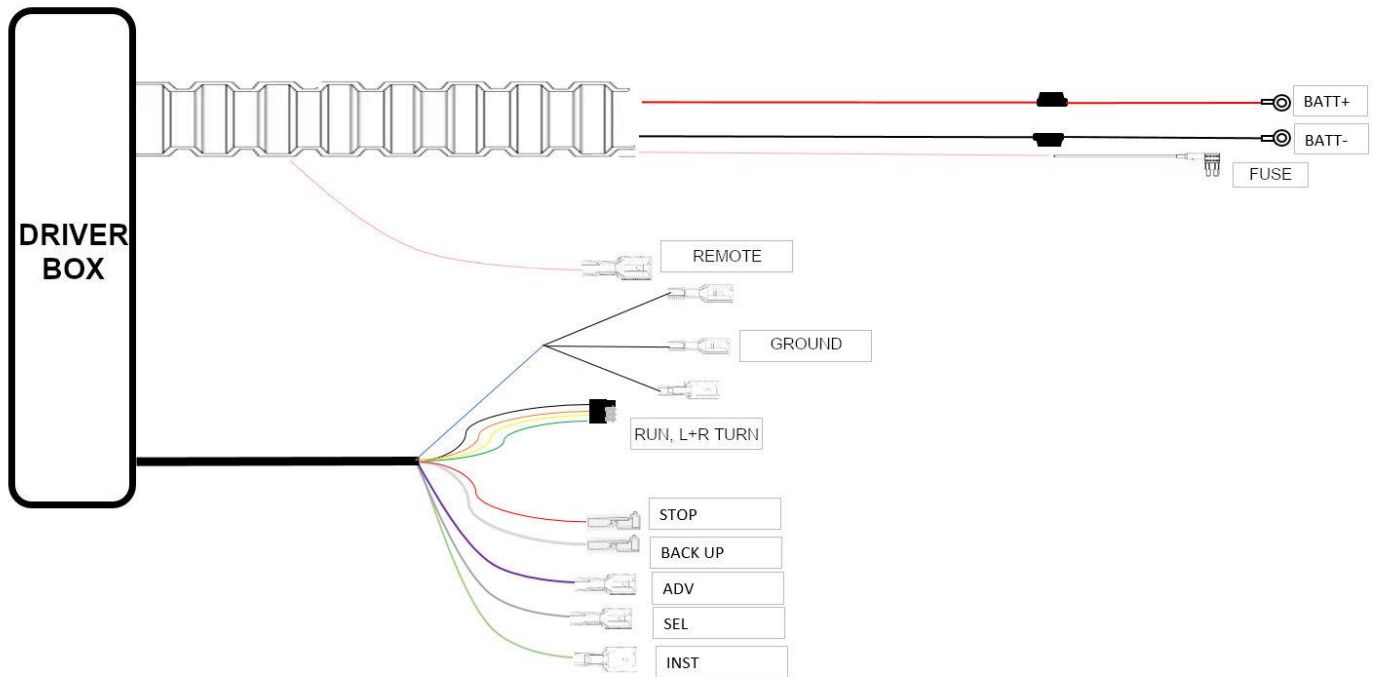
Note:

You must manually connect the INST wire to ground to enter installation mode. This safety feature ensures installation mode cannot be activated while driving. Dielectric grease is recommended in the spade connectors.

To use the remote after connecting it:

5. Manually connect the **INST** wire to a ground spade connector.
6. Press the **A button** on the remote to turn it on.
7. Press the **B button** to cycle through the categories.
8. Press the **C button** to cycle between the various selections.
9. To exit installation mode and save your selection, manually unplug the **INST** wire.

WIRE DIAGRAM



You can find a full installation video by scanning the QR code below!

www.youtube.com/watch?v=2iKr5LGPwas



Congratulations on completing the installation of your Putco product!
For information regarding your warranty, please visit www.putco.com/warranty.

Issues? Please Contact Our Technical Support Team: 1 800 247 3974



WARNING: Final Inspection required. Inspect product was properly Installed and all installation instructions were followed.



For additional information, please visit our website at www.putco.com!