



For additional tips and tricks, watch the installation video by visiting our website or scanning the QR code with your smartphone!

Part Number: 4580



2015-2020 Ford F-150 OEM-Style Bed Lighting Kit

Parts List:	Quantity:	Tool List:
LED Lamp& Wiring	2	• Flat head screwdriver
Wiring Harness Parts	1	• 13mm wrench
Bag PB-4580	1	• Pliers

Thank you for purchasing one of our products. Please familiarize yourself with the parts included as well as the instructions before attempting installation. Please seek the help of a certified technician if you feel unable to complete the installation safely and properly. Failure to read and follow the instructions below may result in personal injury or damage to property. Starkey Products, Inc. and our retailers assume no liability for failures to comply with guidelines and warnings outlined in this instruction manual.

How-To Determine if your F150 is pre-wired for Bed Lighting:

Some trucks come pre-wired. All trucks equipped with the Trailer Assist Lamp, as well as some trucks with a factory-installed tow package are pre-wired. In order for this kit to work without any other components, your truck must be pre-wired for the CLN25 Circuit and GD406 Circuit in order for the Y-Adapter to provide power to your bed lighting. If your truck is not pre-wired, you will also need [Starkey #4572 Power Extension Wiring](#) which can be purchased separately.

To determine if your truck is pre-wired, check the C431 inline connector. This 12-Pin connector is behind the rear bumper toward the driver side of the truck. This connector is up high and has a clip that keeps it attached to the truck. See picture 1 below. On at least one the plugs, the following wires should be present:

- **2015-2017** = Pin #6 (**Black with Yellow Stripe**) and Pin #7 (**Purple**) – Please note, there is a Brown wire with Purple stripe that looks similar.
- **2018-2020** = Pin #6 (**Black with Yellow Stripe**) and Pin #7 (**White with Green Stripe**) – Please note, there are TWO White with Green wires on one connector. You must have BOTH.

Note for some 2015 & 2020 trucks with Lariat trim or above: Some of these trucks have been outfitted with a BLACK connector in place of the C431 Connector mentioned above. In addition to being a different color, this connector has one alignment tab that is positioned differently. In order for the Y-Adapter to work, you must use a razor blade to shave off the alignment tab that does not align properly on one side of the Starkey Y-Adapter AND one side of the factory connector. Once this modification is made and the Y-Adapter is connected, all systems will function normally.

Installing LED Lamps:

1. Remove the plastic oval plugs located in the bed lighting holes. If you have a spray in bed liner, you may need to run a razor blade around the edge of the plug to prevent accidental removal of the bed liner coating.
2. Install each LED lamp. First, run the connector into the hole vacated by the plug you just removed. There is a notch on the top side of the lamp that will face upward. There is a clip on the bottom side of the LED lamp. This clip will face downward. Install the top(notch)side first, then push bottom side into clip. Repeat with the other LED lamp.

3. Locate the 12-Pin connector behind the bumper toward the driver side of the truck. This connector is up high and has a clip that keeps it attached to the truck. See picture 1 below.
4. Unplug the connector by depressing the tab on the side and separating the 2 connectors. Be sure to pull by the connector body, and not on the wiring.
5. Install the Starkey Y-Adapter inline to connect the 2 factory connectors. Note: This connector is keyed so you can't accidentally connect it to the wrong plug. There are several 12-pin connectors in this area of the truck, but only one will connect properly. If you find the connector isn't working, look for another 12-pin connector. The one you are looking for is mounted higher than most of the others.
6. Route the wiring from each LED lamp to the Y-Adapter and plug the connectors into the connectors found on the Y-Adapter.
7. Use included zip ties to secure all wiring.
8. If you have determined your truck is pre-wired, jump to the Final Installation on page 4. Otherwise proceed to the next step.



Circled is the 12-pin connector located under the rear bumper.

1

Installing Starkey 4572 Power Extension for trucks that are NOT pre-wired:

1. Disconnect negative (black) battery cable from the battery. This is done by loosening the bolt located on the side of the battery cable terminal with a wrench. You may let the cable sit off to the side. Do NOT allow it to make contact with the +12v Red battery cable!
2. Locate the rectangular vent behind the passenger side rear wall of the cab. If you have rear seats, use the pull handle to lower the seat back. Pull back the insulation to gain access to the vent.
3. Insert the power extension wire (the side with 2 Red connectors) through any one of the square openings on the vent. The vent in that section will open.

4. Feed enough wire through so that you can route the power extension wire to the Y-Adapter behind the rear bumper you installed earlier. Be sure to zip tie the power extension wire securely.
5. Connect the Red/Red and Black/Black wires on the Extension wiring/ Y-Adapter.
6. Return to the cab of the truck. Remove the front passenger side door sill plate. You will hear it unsnap. This is done by pulling straight up, starting at the front and working your way back. You will hear 'popping' noises when the clips come loose - this is normal. See picture 2.



Remove passenger side door sill plate carefully. **2**



Remove kick panel. First pull upward, then backward. **3**



Press tab while sliding bar to the side to unplug connector. **4**

7. Locate the interior fuse box. It is located behind the passenger side kick panel directly in front of the door. If you have trouble finding it, refer to your vehicles user manual for the specific location.
8. Remove the fuse box access cover.
9. Remove the side dash trim panel (it has the circular vent that feeds air to side window defroster).
10. Remove the kick panel. It can be removed by first pulling upward where it attaches to the door sill plate - one clip holds it in place. Then pull backward where it attaches to the door frame to release the rest of the clips. See picture 3.
11. Route the power extension wire up to the fuse box you just uncovered, tucking it under the rear door sill plate as you go (for crew cab trucks).
12. Locate the large black 36 position connector shown in picture 4. It has a white bar running across it. It is the third connector from the bottom. It has 23-26 wires coming out of it.
13. Press the release tab on the top of the connector while sliding the white bar to the side to unplug it. It will 'click'.
14. Unplug the connector and gently pull it out to gain better access to the wiring. Pull back a few inches of electrical tape wrapped around the connectors' bundle of wiring. Do not use any tool to remove the electrical tape that could cut wires or otherwise cause damage.
15. **2015-2017 Model Years:** Using the supplied red wire tap, slide the **Purple** wire (Pin #26) onto the wire tap.
2018+ Model Years: Using the supplied red wire tap, slide the **White** wire with **Green** stripe (Pin #26) onto the wire tap. Note: If your truck has two of the same wire colors on the SAME connector – you can connect to either one – they are both connected to a single terminal. See picture 5. The wire should sit in the middle of the two teeth. Squeeze down on the wire tap making sure it snaps closed. Do not cut Wire! The wire in question is a 22 gauge wire (the thinnest type of wire running into this connector).
16. Plug the **red** wire from the Starkey wiring extension into the back of the wire tap. See picture 6.
17. Re-connect the large black connector. Be certain to pull the white bar to the side to insure the connector snaps back into place.
18. Use a 13mm socket or wrench to attach the **black** ground wire to the bolt circled in picture 7. Re-attach the nut and tighten.
19. Re-connect the negative battery cable to the truck battery. Remember to re-tighten the bolt.



Slide the wire specified into place and close wire tap

5



Plug red power extension wire into the wire tap.

6



Attach black ground wire to the 13mm bolt circled above.

7

Final Installation:

1. Double check everything to make sure it was connected properly.
2. Now hit the unlock button on your key FOB – the lights should illuminate. If the lights do not power on, visit the trouble shooting section below. Otherwise proceed to the next step.
3. Using the supplied zip ties, secure the wiring under the rear of the bumper if not already done. Be sure to securely zip tie any components that may hang or move.
4. If your truck was pre-wired, use the supplied red male and female caps included in the parts bag to cap off the red and black wires that hang down from the Y-Adapter. If your truck was not pre-wired, you can skip this step since you have connected the #4572 power extension harness to these wires.
5. Enjoy your new Bed Lighting! The lights will activate when you open any door or unlock the doors with your Key FOB. Lights will dim automatically when you start the truck or lock the doors. If you would like to keep the lights on longer than the 25 second time out, you can crack any door of the truck and the lights will stay on for up to 10 minutes.

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Trouble shooting guide:

LED Lamps won't turn ON –

- Check to make sure the Y-Adapter you connected earlier made a good connection – to do this, unplug the connectors, and re-connect them. You should hear an audible 'click' when the connector fully engages.
- Confirm you installed the extension harness properly (for trucks that needed Power Extension wiring).
- Close all doors. Disconnect negative battery cable for 5 minutes, then reconnect and re-test.
- Some interior lights or door locks aren't functioning –
- Did your installation require the power extension harness? If so, the connector near the fuse box you unplugged on page 3 was not re-connected properly or completely. Plugging it back in will restore function. Be sure to pull the white bar back over until it clicks into place.
- Bed Lights do not turn OFF –
- Check to make sure you tapped into the correct wire for the #4572 power extension (if part was required).
- Check to make sure all cab doors AND hood are shut. If any are cracked or open, the lights will not shut off.

If you are still having trouble with your product, please contact us for technical assistance. Tech support is available via phone Monday through Friday 9am-5pm. Email tech support is available during regular business hours as well as weekends, holidays, and evenings.

Starkey Products, Inc.

Phone: (386)-951-6335

Email: Tech@Starkey-Products.com

Website: www.Starkey-Products.com

Limited Warranty:

This warranty covers defects in materials or workmanship in any component sold by Starkey Products, Inc. or its authorized dealers. Warranty is effective for five years from the date of purchase. Coverage terminates if you sell or transfer ownership of the product. Starkey Products will repair or replace the defective or malfunctioning product or any defective or malfunctioning part thereof at no charge. This warranty covers parts and labor only. This warranty does not cover any problem that is caused by abuse, misuse, acts of God, or improper installation. Any modification or alteration to any component will void the product warranty. Warranty does not cover wear that any components receive through the normal course of operation and use (including but not limited to bulbs). All warranty claims require proof of purchase.

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