



INSTALLATION GUIDE

2021-23 FORD F-150

BOMBER REAR BUMPER

R190141280103



TOOLS REQUIRED

(Sockets) 7/16, 9/16, 10mm
(Box end wrenches) 7/16, 9/16, 10mm
(Allen wrenches) 5/32, 7/32
(Torx) T40
Fastener remover or flathead screwdriver
Zip ties
Ratchet
Grinder



SKILL LEVEL

-Easy/Intermediate

****This installation requires 2 people for best results****



TIME REQUIRED

- 2 hours for OEM Removal/Bumper Install



INCLUDED IN KIT

(2) 3/8-16 X 1" Button Head Bolt	(4) 1/4-20 X 1" Button Head Bolt
(2) 3/8" Flat Washer	(4) 1/4" Flat Washer
(2) 3/8-16" Nylon Lock Nut	(4) 1/4-20" Nylon Lock Nut
(4) 3/8-16 X 1" Hex Head Bolt	(4) Nylon Snap-In Nut
(8) 3/8" Fender Washer	(4) Hex Head Blunt Screw
(4) 3/8-16" Nylon Lock Nut	



WARNINGS/CAUTIONS BEFORE STARTING INSTALLATION



-BEFORE YOU INSTALL THIS KIT-

Read and understand all instructions, warnings, cautions, & notes contained in this installation instruction guide. Consult your vehicle owner's manual for proper disconnection of electrical and lifting of vehicle if required for installation of this product.

This install may require some technical skills and knowledge of basic mechanical work. If you do not feel that you are capable of performing this install please take this product to a trained professional.

After reading this guide please contact us with any questions or concerns before installing product.

Customer Service (480) 671-0820

Addictive desert designs is not responsible for any bodily injury or harm to you or your vehicle as a result of an improper install.

Proper installation of this kit required knowledge of the factory recommended procedures for removal and installation of original equipment components.

We recommend that the factory shop manual and any special tools needed to service your vehicle be on hand during the installation. Installation of this kit without proper knowledge of the factory recommended procedures may affect the performance of these components and the safety of the vehicle.

Inspect all contents of this package to make sure product is not damaged and all installation hardware has been included. If parts are missing from kit, please be prepared to provide the following information:

1. Name of purchase location
2. Bar Code on side of box
3. Date above bar code
4. Date inside box cover

***ALWAYS WEAR EYE PROTECTION
WHEN OPERATING POWER TOOLS***

HARDWARE/PARTS

A.



3/8-16 X 1" BUTTON HEAD BOLT
(BLACK)
QTY: 2

A1.



3/8" FLAT WASHER (BLACK)
QTY: 2

A2.



3/8-16" NYLON LOCK NUT (BLACK)
QTY: 2

B.



3/8-16 X 1" HEX HEAD BOLT
QTY: 4

B1.



3/8" FENDER WASHER
QTY: 8

B2.



3/8-16" NYLON LOCK NUT
QTY: 4

Reference this page throughout the install

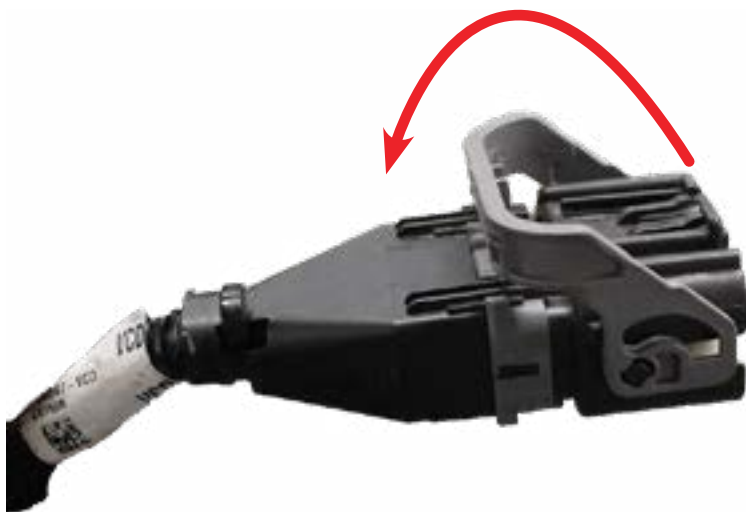
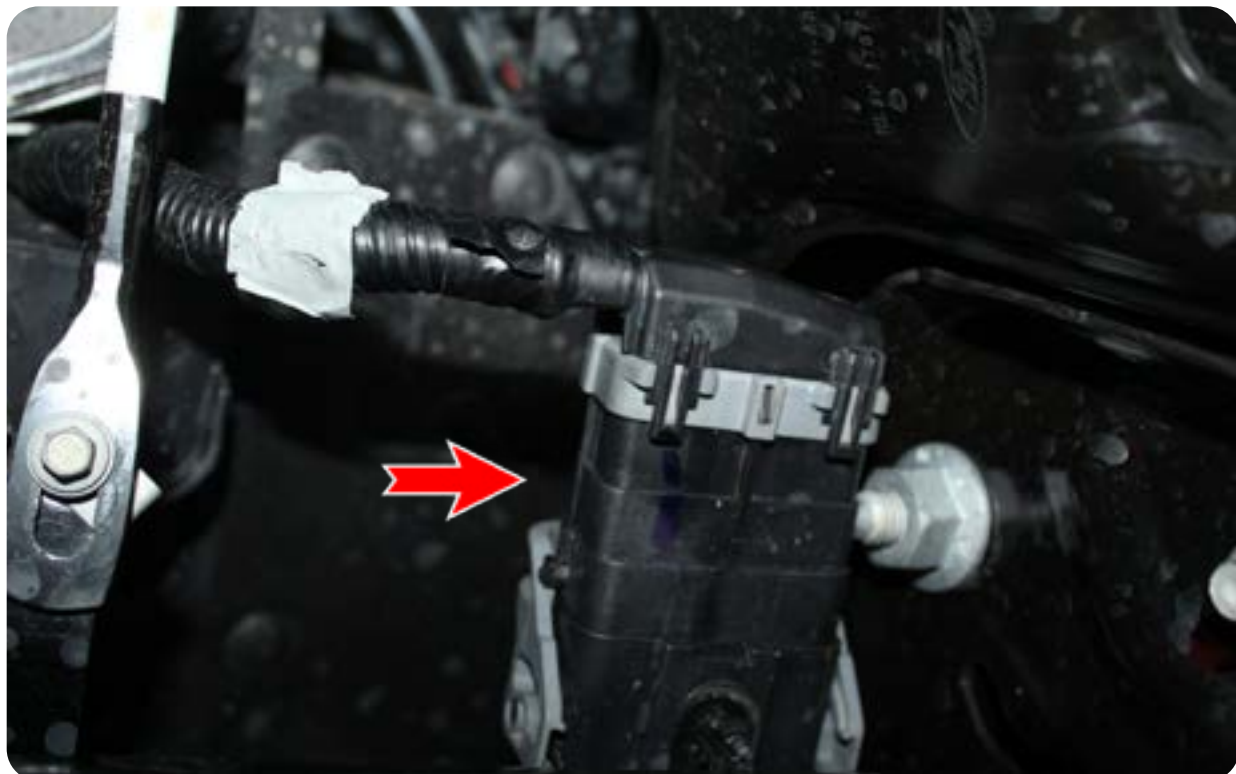
BOMBER REAR BUMPER

2021-23 FORD F-150

REMOVAL

□ STEP 1

Unplug the main wire harness located on the passenger side by pulling the gray tab back as shown below. Remove the ground using a (10mm socket) located on the passenger side on the frame rail.



BOMBER REAR BUMPER 2021-23 FORD F-150

REMOVAL

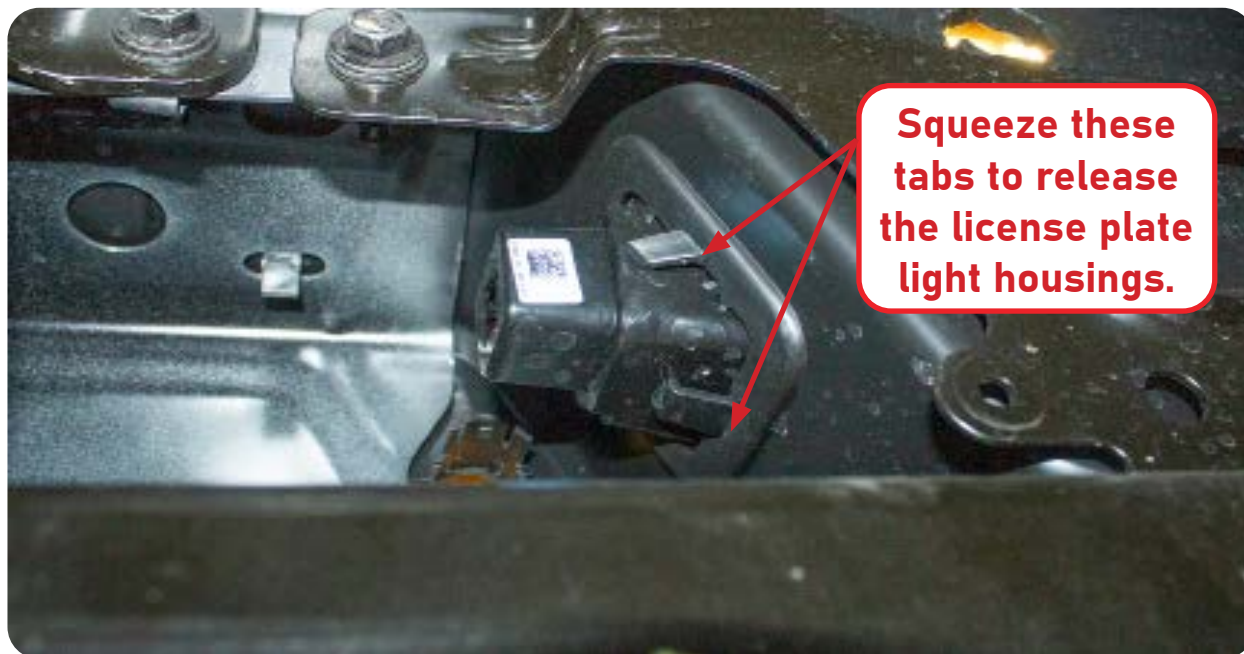
□ STEP 2

Unplug/remove the trailer plug.



□ STEP 3

Remove the license plate light by twisting counter clock wise and remove the housing.



BOMBER REAR BUMPER 2021-23 FORD F-150

REMOVAL

□ STEP 4

Remove the parking sensors and bezels from the stock bumper, You can now remove the wire harness and set aside for install. ****Remember the location and orientation of the sensor bezels after removal for this will be important later on in the install****



**SPREAD THESE TWO TABS
TO RELEASE THE PARKING
SENSOR.**



**SQUEEZE THESE TWO TABS
TO RELEASE THE PARKING
SENSOR MOUNTING RINGS.**

BOMBER REAR BUMPER

2021-23 FORD F-150

REMOVAL

□ STEP 5

Pull the top plastic cover off the bumper. There are no tools required for this step, it simply pulls off by hand.



BOMBER REAR BUMPER 2021-23 FORD F-150

REMOVAL

□ STEP 6

Using a (13mm socket), remove the mounting bolts that hold the bumper side covers to the vehicle. You can now remove the bumper.

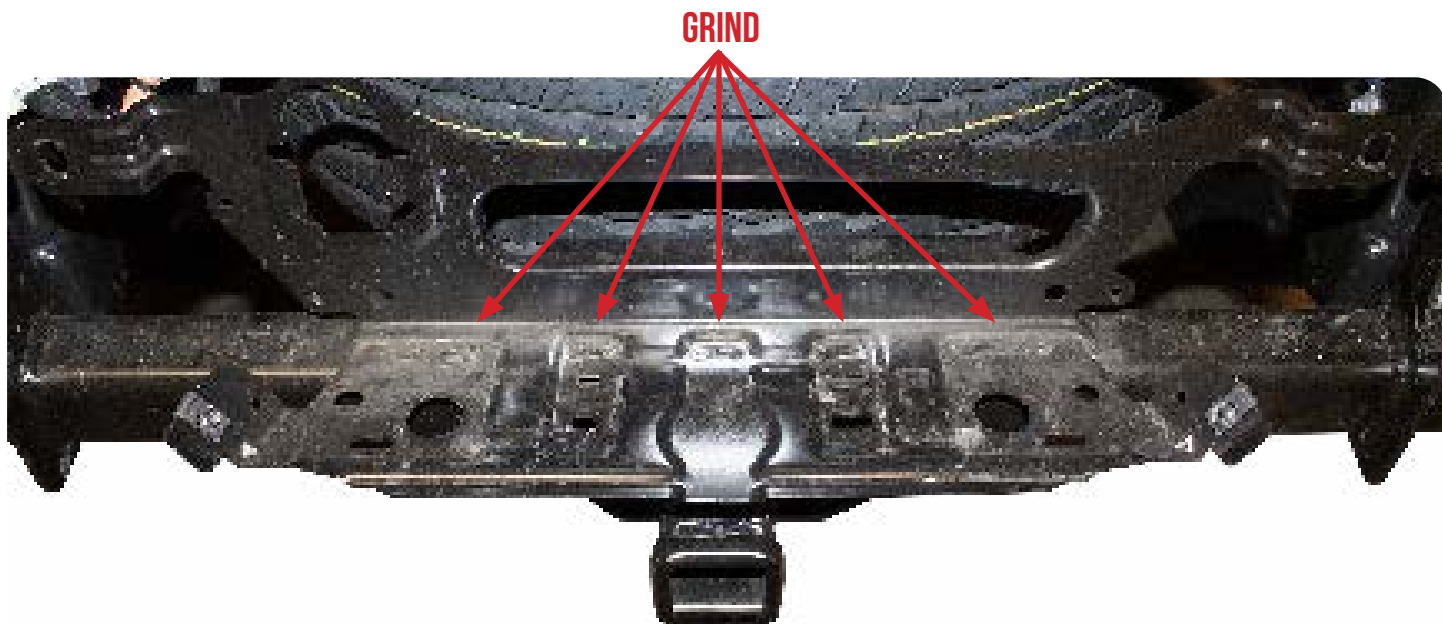


BOMBER REAR BUMPER 2021-23 FORD F-150

REMOVAL

□ STEP 7

Remove the license plate bracket by using a (grinder) to grinding through the five visible welds that connect that bracket to the hitch. ****Once the bracket has been removed, paint over the raw metal to prevent rust****



BOMBER REAR BUMPER 2021-23 FORD F-150

INSTALL

□ STEP 8

Install the license plate light housing. Be sure that the clips are fully clipped in by using a (flathead) to pry into place. ****DO NOT pry to hard due to breakage****



BOMBER REAR BUMPER

2021-23 FORD F-150

INSTALL

☐ STEP 9

Install the trailer plug and pry out the tabs to securely seat plug using a (flathead screwdriver).



BOMBER REAR BUMPER

2021-23 FORD F-150

INSTALL

□ STEP 10

Install the sensor and sensor bezel as shown below ensure the sensor matches the same orientation as OEM.



BOMBER REAR BUMPER 2021-23 FORD F-150

INSTALL

□ STEP 11

Install the sensor and sensor bezel as shown below ensure the sensor matches the same orientation as OEM.



BOMBER REAR BUMPER 2021-23 FORD F-150

INSTALL

□ STEP 12

Install the sensor and sensor bezel as shown below ensure the sensor matches the same orientation as OEM.



BOMBER REAR BUMPER 2021-23 FORD F-150

INSTALL

□ STEP 13

Install the sensor and sensor bezel as shown below ensure the sensor matches the same orientation as OEM.



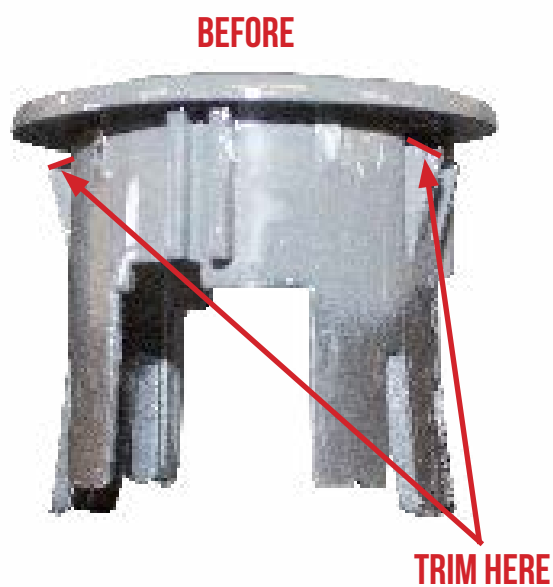
BOMBER REAR BUMPER

2021-23 FORD F-150

INSTALL

☐ STEP 14

If your sensor bezels do not click into place, you may have to trim the mounting tabs to accommodate for the thickness of the material on your new bumper.



BOMBER REAR BUMPER 2021-23 FORD F-150

INSTALL

□ STEP 15

With the help from another installer, use a (7/32 allen) and a (9/16 wrench) to install the Black Label Rear Bumper with the provided **(A, A1, A2)** 3/8-16 X 1 1/4" button head bolt, 3/8" flat washer, and 3/8-16" nylon lock nut.



BOMBER REAR BUMPER 2021-23 FORD F-150

INSTALL

□ STEP 16

Using a (9/16 socket) and a (9/16 wrench) Install the provided **(B, B1, B2)** 3/8-16 X 1" hex head bolts, 3/8" flat washers, and 3/8-16" nylon lock nuts for the top mounting holes. ****Ensure the bolt is facing in the directions shown in the pictures below****

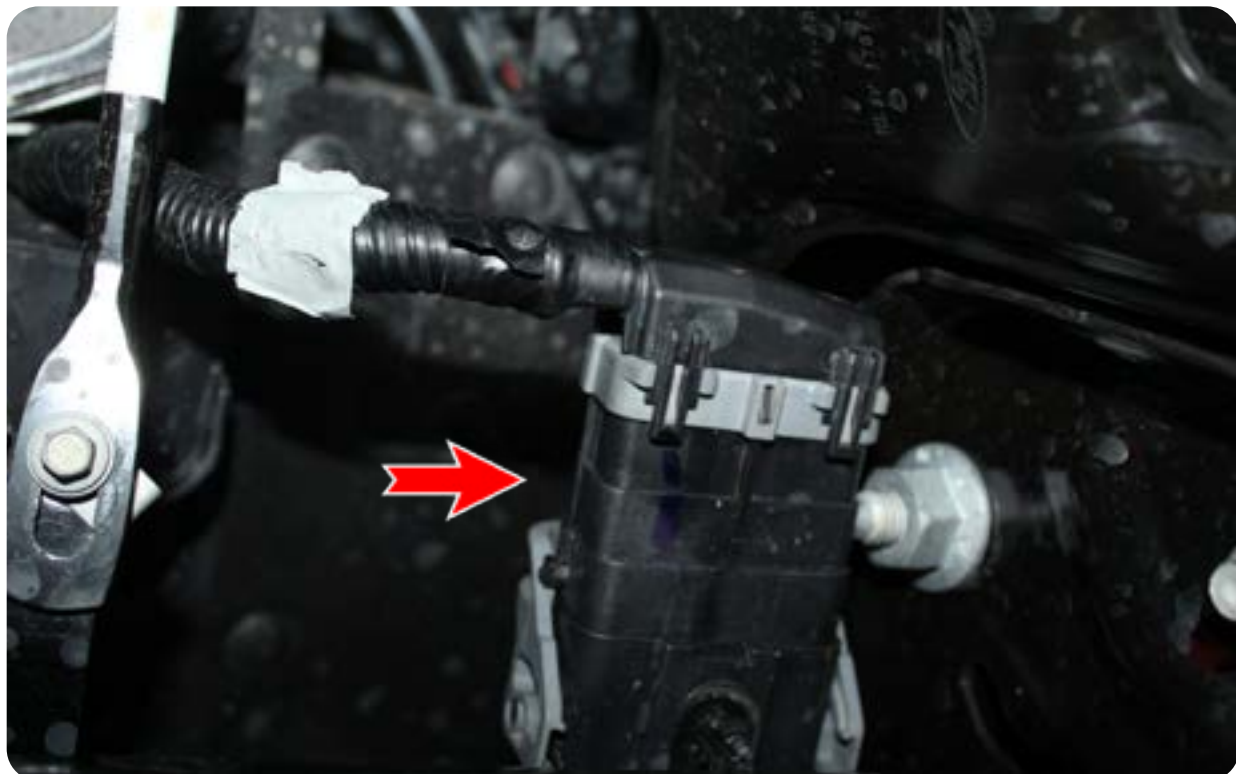


BOMBER REAR BUMPER 2021-23 FORD F-150

INSTALL

□ STEP 17

Plug in the wire harness, and reinstall the ground using a (10mm). ****Ensure the clip is fully pushed down when plugged in as shown below****



BOMBER REAR BUMPER 2021-23 FORD F-150

FINAL

☐ STEP 1

Stand back and enjoy your new ADD Bomber Rear Bumper.

Check and re-tighten, if needed, all mounting bolts after 100 miles and periodically thereafter.



THIS PRODUCT IS PROTECTED BY ONE OR MORE U.S. PATENTS
WWW.ADDICTIVEDESERTDESIGNS.COM/PATENTS

FOR ADDITIONAL SUPPORT OR TECHNICAL QUESTIONS,
PLEASE CALL 480-671-0820 OR
EMAIL INFO@ADDICTIVEDESERTDESIGNS.COM