

## 17-20/FORD RAPTOR

### PHANTOM REAR BUMPER

R110191190103



### TOOLS REQUIRED

- (Sockets) 7/16, 9/16, 10mm
- (Box end wrenches) 7/16, 9/16, 10mm
- (Allen wrenches) 5/32
- (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
- 1 Additional Hour to Wire Lights

**\*\*Labor Rates are based on a vehicle with no pre-existing damage. Wiring labor is based on a standard wiring procedure with light switches installed in an easily accessible location. Custom light triggering or switch mounting location will result in a greater labor charge.\*\***



### INCLUDED IN KIT

- 4- 3/8-16 X 1 1/2" Hex Head Bolt
- 4- 3/8-16" Nylon Lock Nut
- 4- 3/8" Flat Washer
- 8- 1/4-20 X 3/4" Button Head Bolt
- 8- 1/4-20" Nylon Lock Nut
- 8- 1/4" Flat Washer

## ⚠️ 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

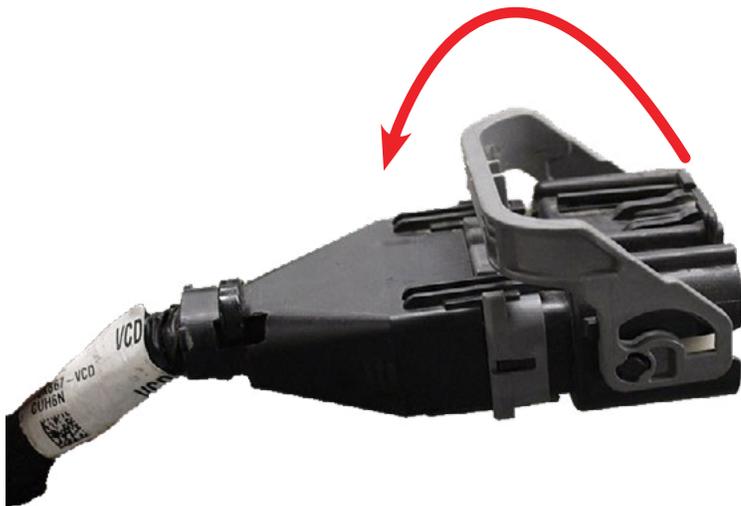
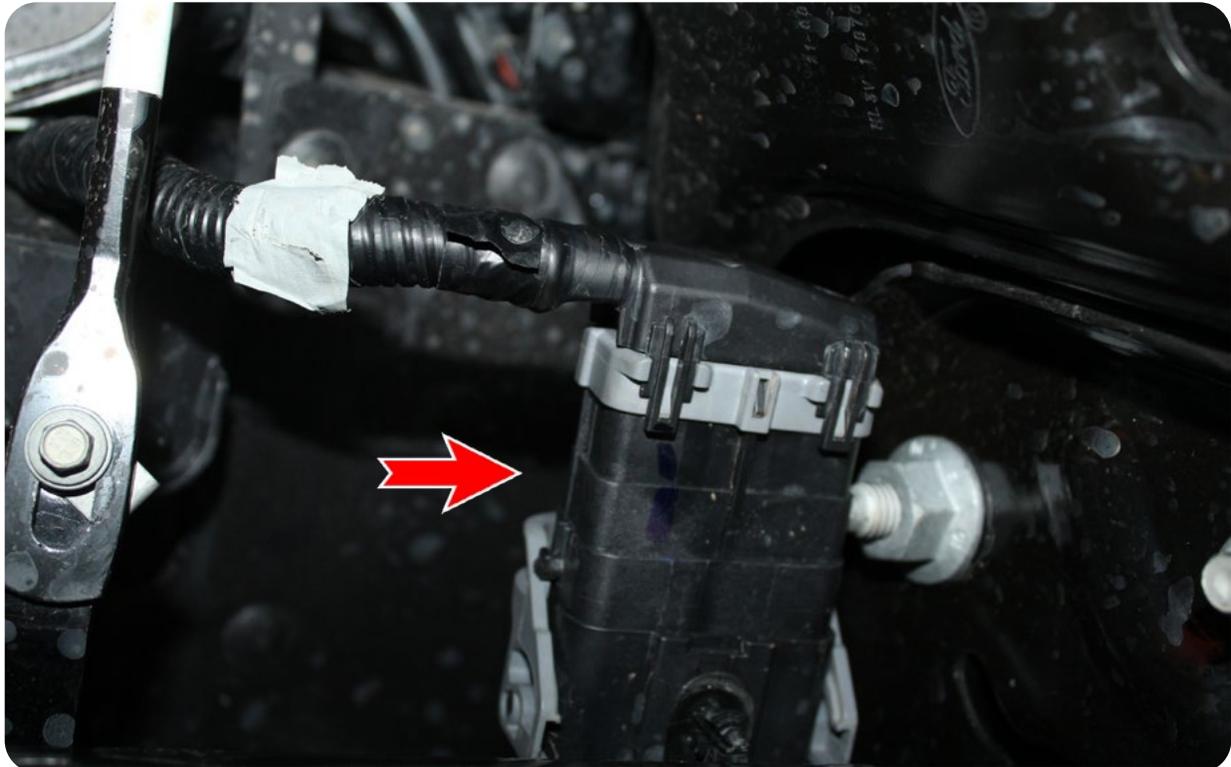
**\*ALWAYS WEAR EYE PROTECTION WHEN OPERATING POWER TOOLS\***

## PHANTOM REAR BUMPER 17-20/FORD RAPTOR

## 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.



## PHANTOM REAR BUMPER 17-20/FORD RAPTOR

## REMOVAL

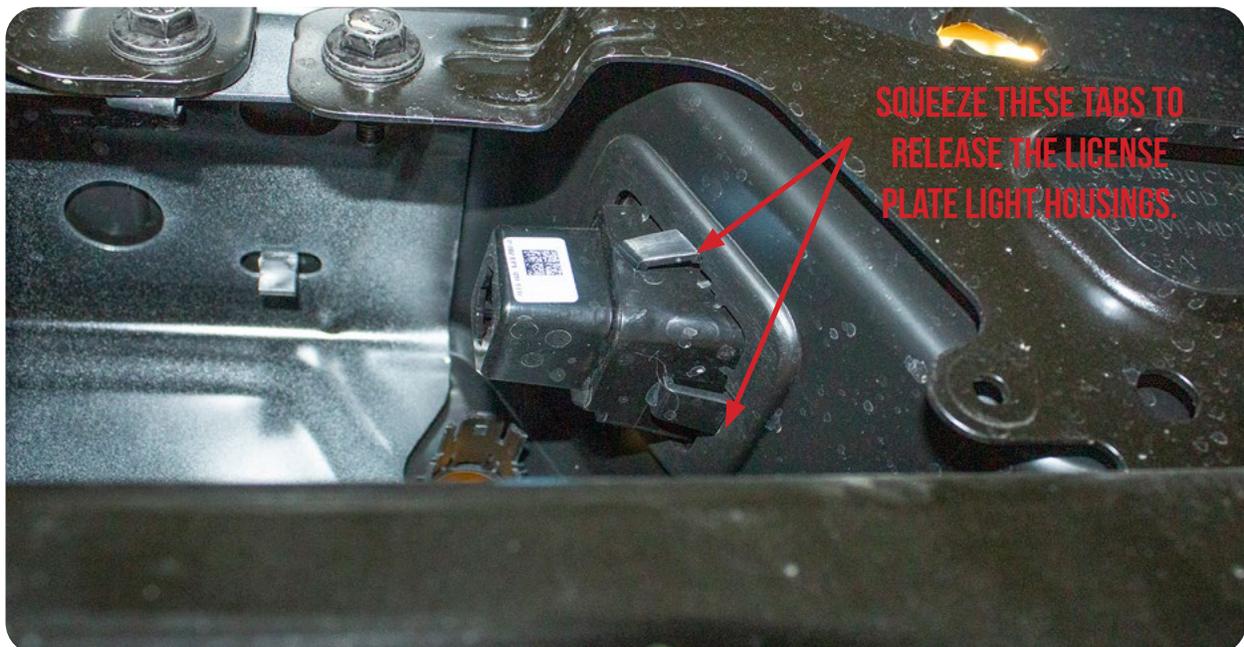
### □ STEP 2

Unplug/remove the trailer plug.



### □ STEP 3

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

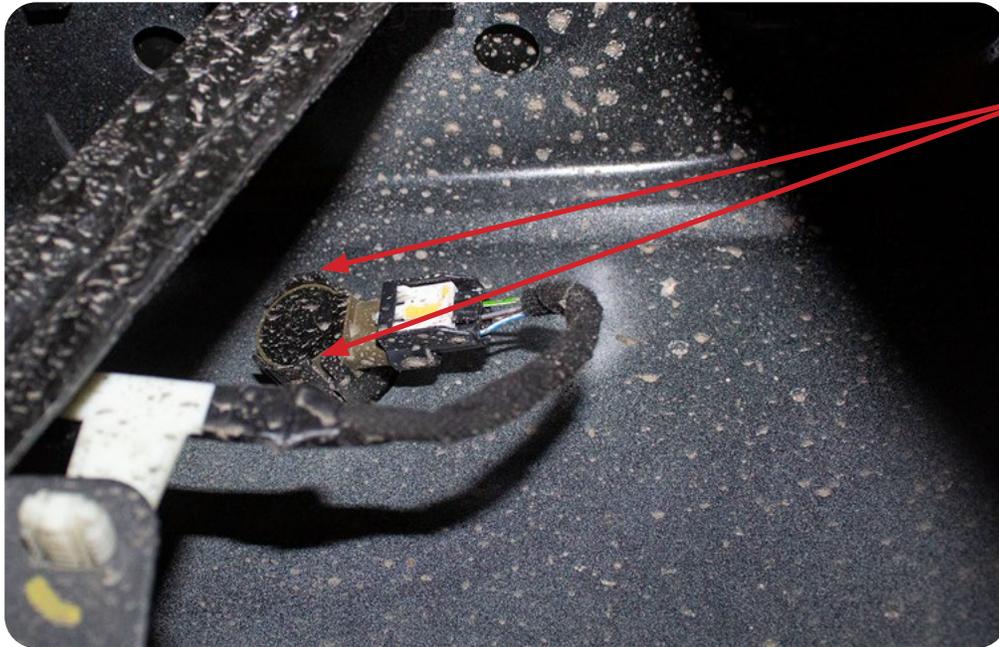


## PHANTOM REAR BUMPER 17-20/FORD RAPTOR

## 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.**

## PHANTOM REAR BUMPER 17-20/FORD RAPTOR

## 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.



## PHANTOM REAR BUMPER 17-20/FORD RAPTOR

## REMOVAL

### □ STEP 6

Using a (T40 torx), remove the mounting bolts that hold the bumper side covers to the vehicle.

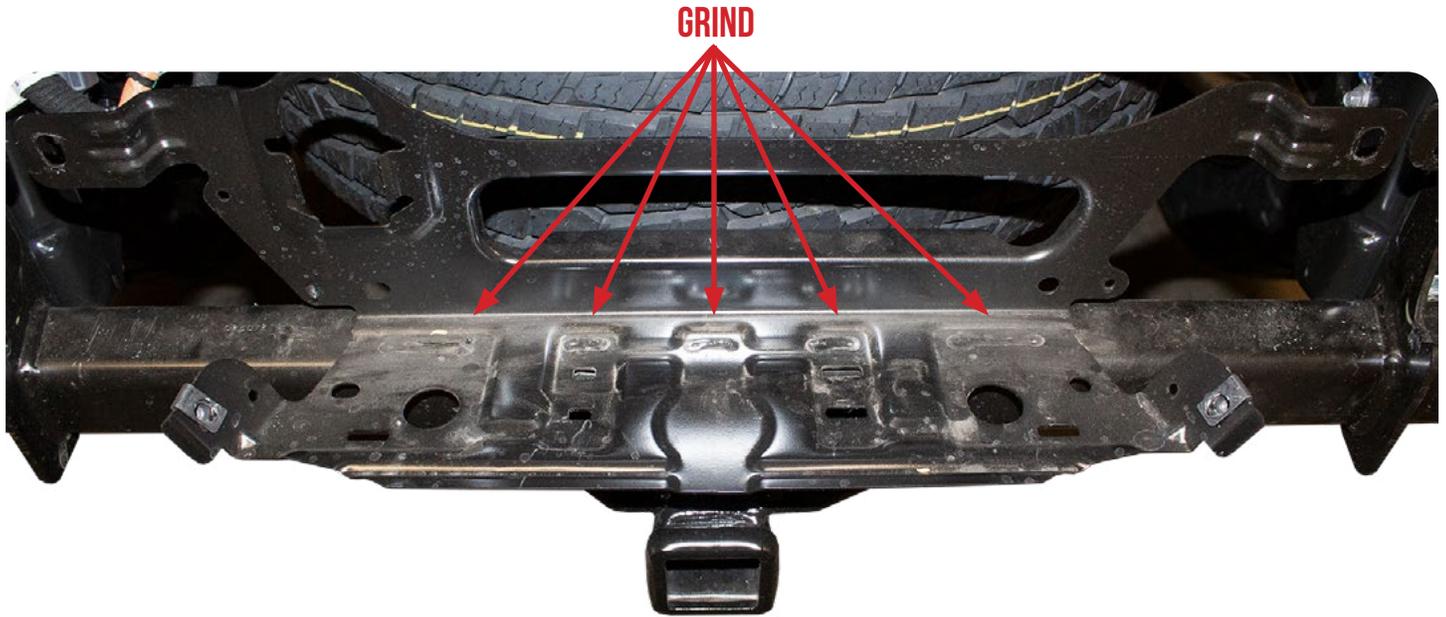


## PHANTOM REAR BUMPER 17-20/FORD RAPTOR

## 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\*\***

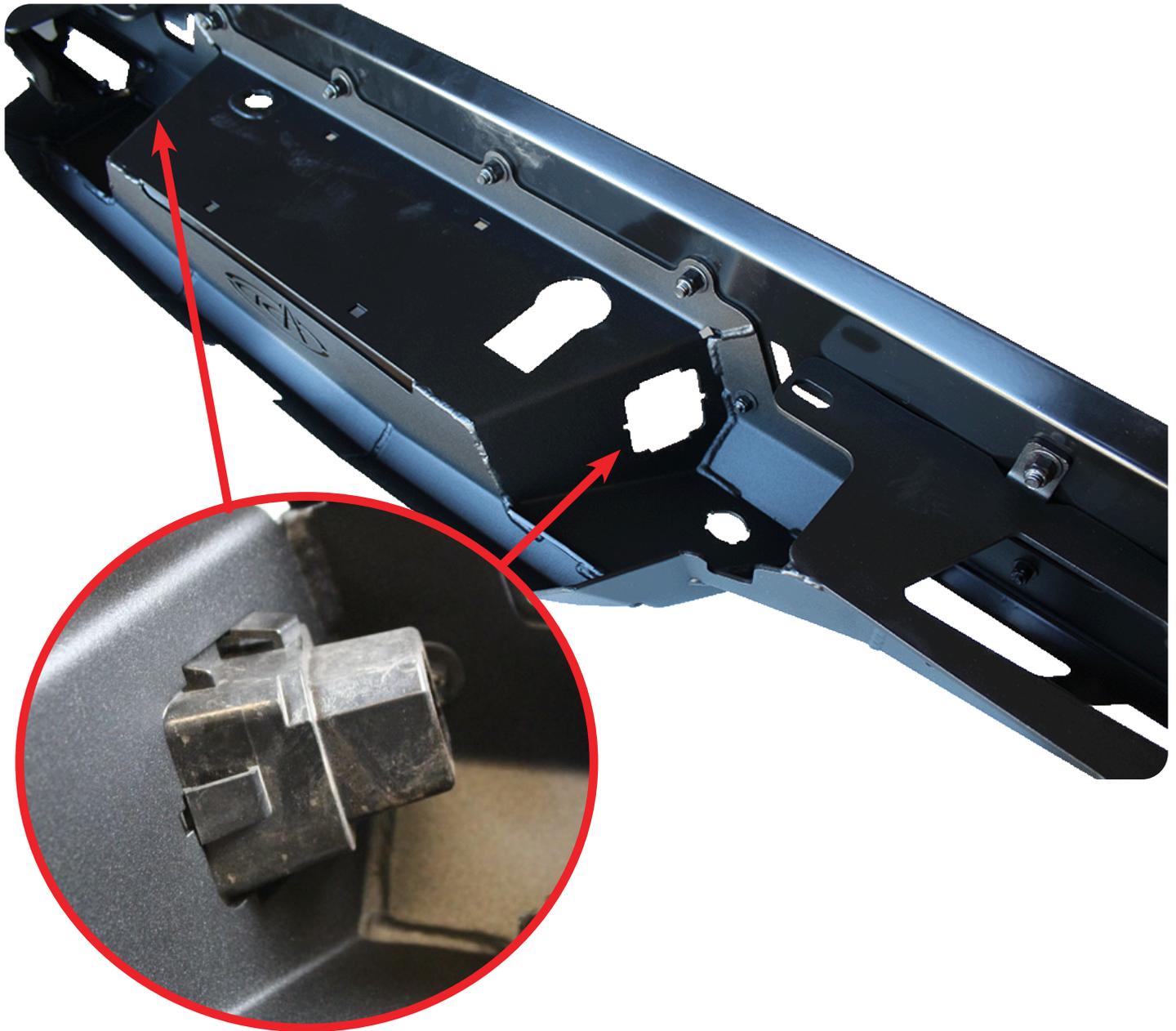


## PHANTOM REAR BUMPER 17-20/FORD RAPTOR

## 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\*\***



## PHANTOM REAR BUMPER 17-20/FORD RAPTOR

## INSTALL

### □ STEP 9

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



## PHANTOM REAR BUMPER 17-20/FORD RAPTOR

## INSTALL

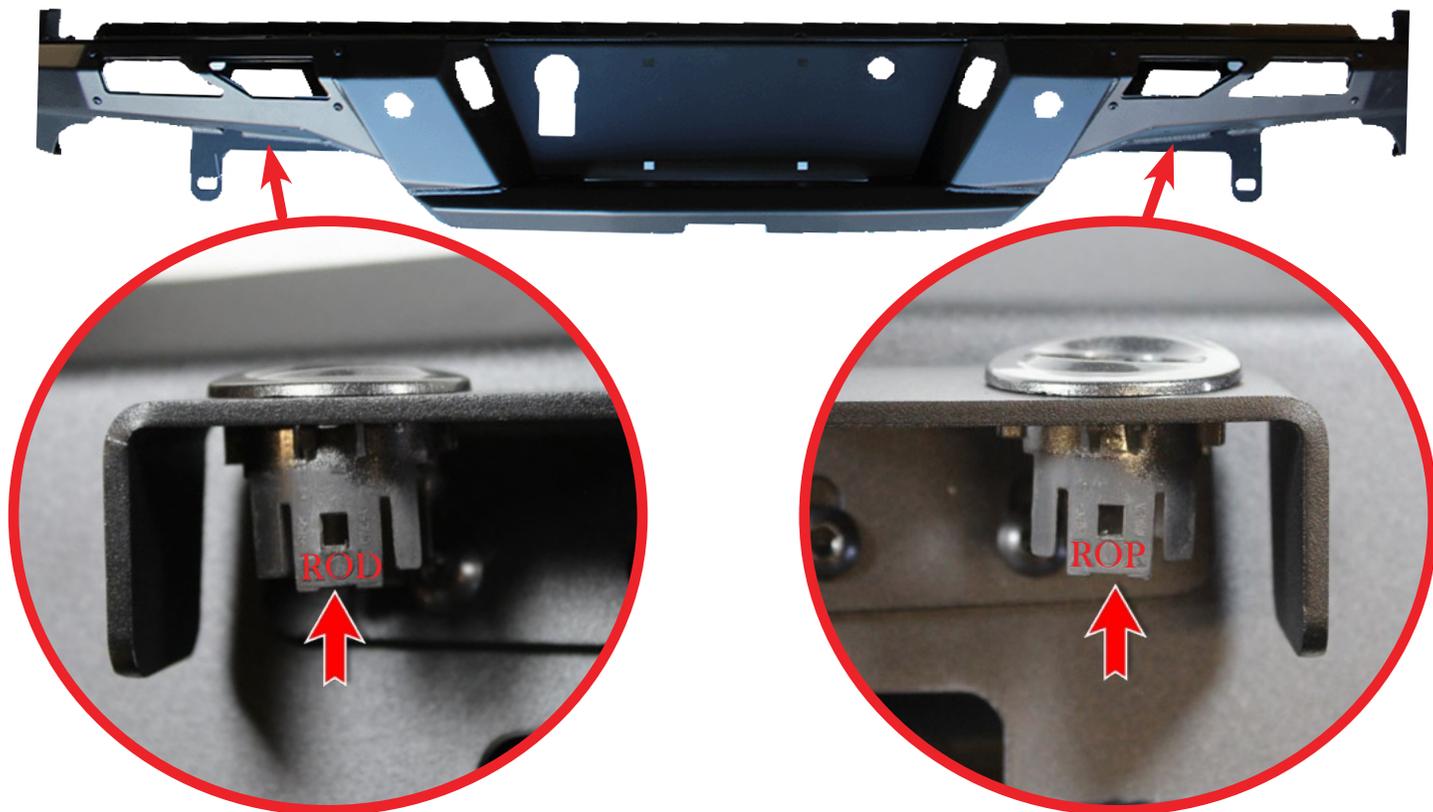
### □ STEP 10

Install the parking sensor mounts using the 1/4" button head bolts, washers, and nylon lock nuts using a (5/32 allen) and (7/16 wrench). (Repeat on other side) **\*\*Install the sensor bezels in the orientation you remove them from the stock bumper\*\***



## PHANTOM REAR BUMPER 17-20/FORD RAPTOR

## INSTALL



### □ STEP 11

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.



## PHANTOM REAR BUMPER 17-20/FORD RAPTOR

## INSTALL

### □ STEP 12

Unplug the outer parking sensors by pushing the white tab down. Insert the plug through the provided cutout next to the sensor mounts. Plug the parking sensor back in and ensure the sensor is facing the direction provide in the bottom right picture.



## PHANTOM REAR BUMPER 17-20/FORD RAPTOR

## INSTALL

### □ STEP 13

Install the light mount brackets using the provided 1/4" button head bolts, washers, and nylon lock nuts using (5/32 allen wrench) and a (7/16 wrench). (Repeat on other side)



**OUTSIDE**



**INSIDE**

## PHANTOM REAR BUMPER 17-20/FORD RAPTOR

## INSTALL

### □ STEP 14

Using a (T40 torx) install your new ADD bumper using the OEM hardware from the bottom mount you removed on step 6.



## PHANTOM REAR BUMPER 17-20/FORD RAPTOR

## INSTALL

### □ STEP 15

Install the provided 3/8" hex head bolts, washers, and nylon lock nuts using a (9/16 socket) and a (9/16 wrench) for the top mounting holes. **\*\*Ensure the bolt is facing in the directions shown in the pictures below\*\***

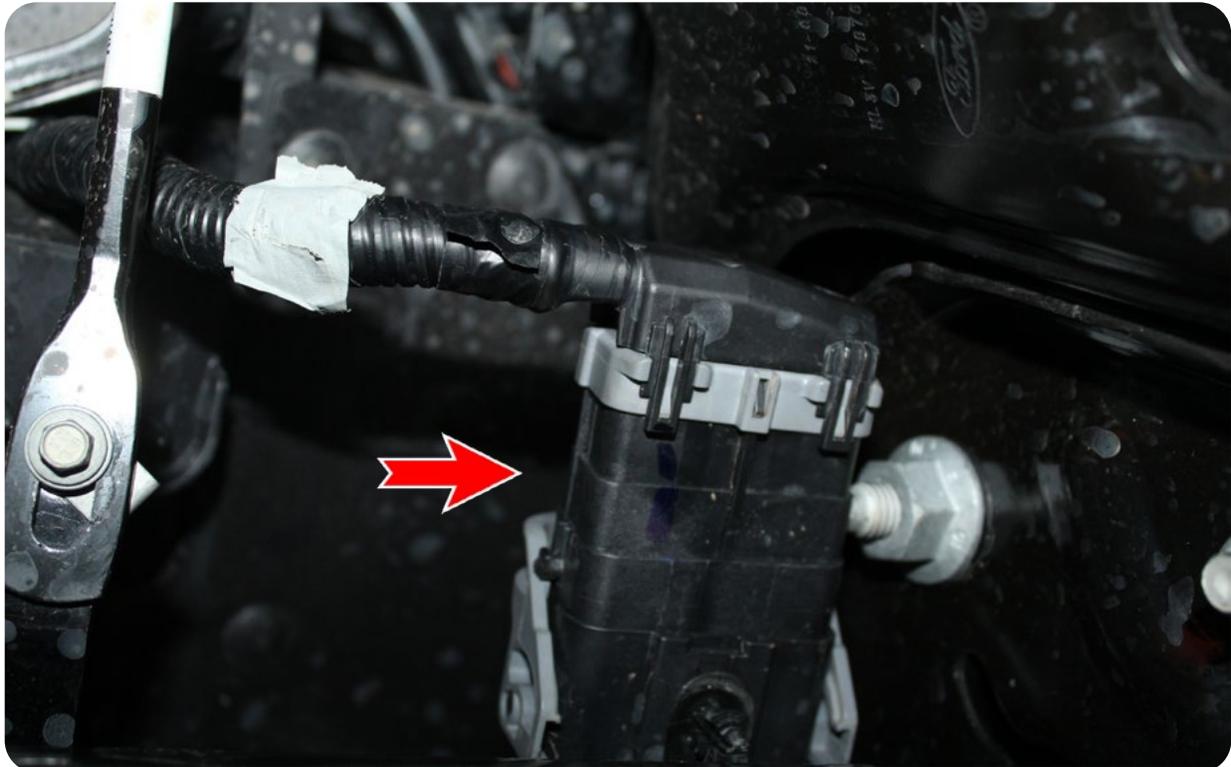


## PHANTOM REAR BUMPER 17-20/FORD RAPTOR

## INSTALL

### □ STEP 16

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\*\***



## PHANTOM REAR BUMPER 17-20/FORD RAPTOR

## FINAL

### STEP 1

Stand back and enjoy your new ADD Phantom™ Front 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  
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FOR ADDITIONAL SUPPORT OR TECHNICAL QUESTIONS,  
PLEASE CALL 480-671-0820 OR  
EMAIL [INFO@ADDICTIVEDESERTDESIGNS.COM](mailto:INFO@ADDICTIVEDESERTDESIGNS.COM)