



INSTALLATION GUIDE

2021-UP FORD F-150 RAPTOR

PRO-PLUS BOLT-ON FRONT BUMPER

F210542070103



TOOLS REQUIRED

(Sockets) 7/16, 9/16, 3/4, 8mm, 10mm, 13mm, 15mm, 21mm
(Box end wrenches) 7/16, 9/16, 3/4, 8mm, 10mm, 13mm, 15mm, 21mm
(Allen wrenches) 5/32, 7/32, 5/16
Fastener remover or flathead screwdriver
Zip ties
Ratchet



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.****



SKILL LEVEL



Easy

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



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



INSTALLATION GUIDE

HARDWARE/PARTS

A.



3/8-16 X 1" CARRIAGE BOLT

QTY: 4

A1.



3/8-16 X 1" HEX HEAD BOLT (YELLOW)

QTY: 4

A2.



3/8-16 X 1" HEX HEAD BOLT (SILVER)

QTY: 2

A3.



3/8 FLAT WASHER

QTY: 2

A4.



3/8 FLAT WASHER (BLACK)

QTY: 4

A5.



3/8" FENDER WASHER

QTY: 4

A6.



3/8-16" U-NUT (LONG)

QTY: 4

A7.



3/8-16" U-NUT

QTY: 2

A8.



3/8-16 NYLON LOCK NUT

QTY: 4

B.



1/2-13 X 1 1/2" BUTTON HEAD BOLT

QTY: 2

B1.



1/2" FLAT WASHER

QTY: 2

B2.



1/2-13" NYLON LOCK NUT

QTY: 2

Reference this page throughout the install



INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

REMOVAL

□ STEP 1

Remove the (6) bolts to release the OEM skid plate using a (13mm and 15mm socket).





INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

REMOVAL

□ STEP 2

Remove the skid plate spacer.





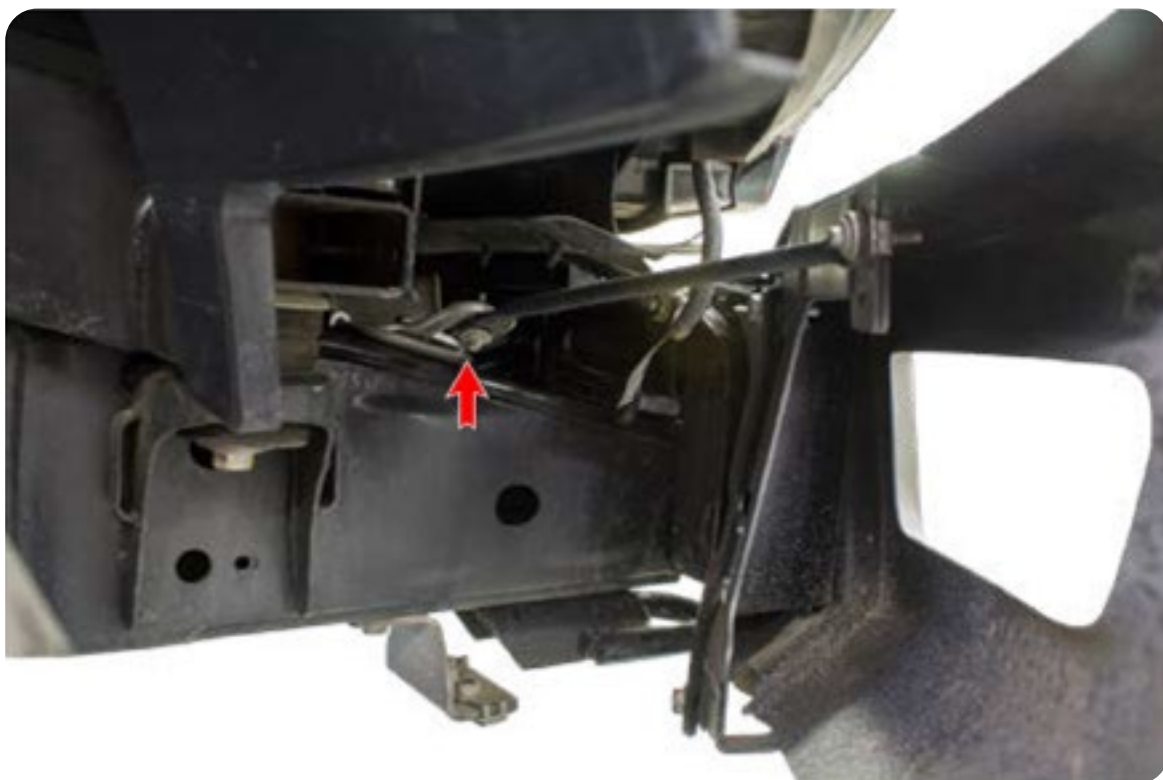
INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

REMOVAL

□ STEP 3

Remove the support brackets holding the bumper to the frame horns using a (8mm socket). (Repeat on other side)





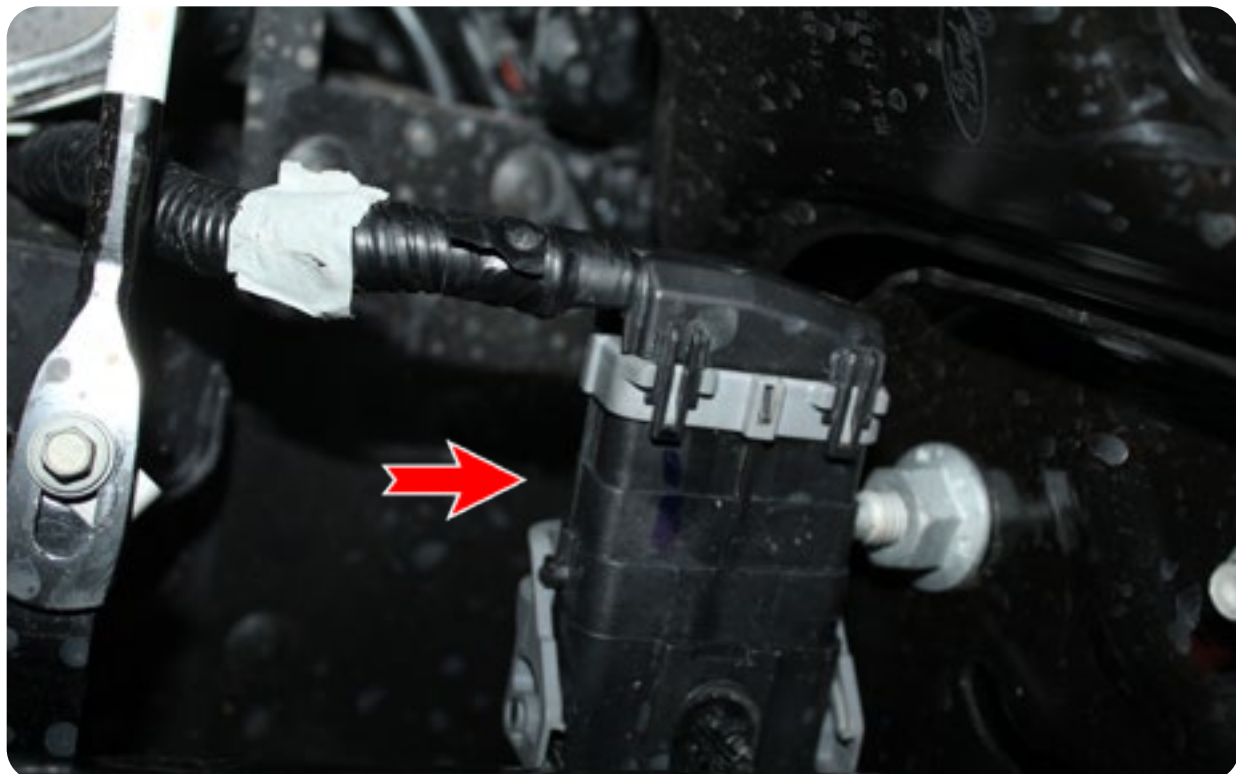
INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

REMOVAL

□ STEP 4

Unplug the main wiring harness plug located on the passenger side by pulling the gray tab back as shown below.





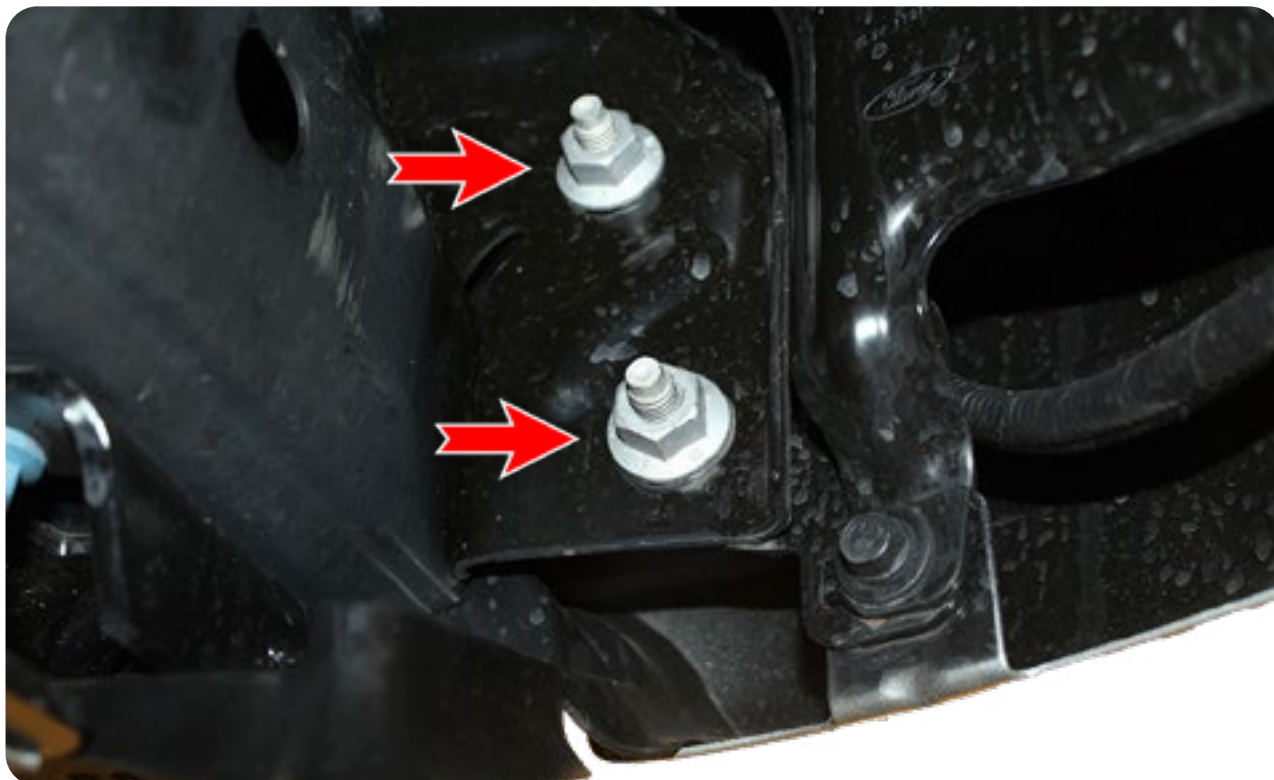
INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

REMOVAL

□ STEP 5

Remove the mounting bolts located on the frame horn using a (21mm Socket). (Repeat on other side)





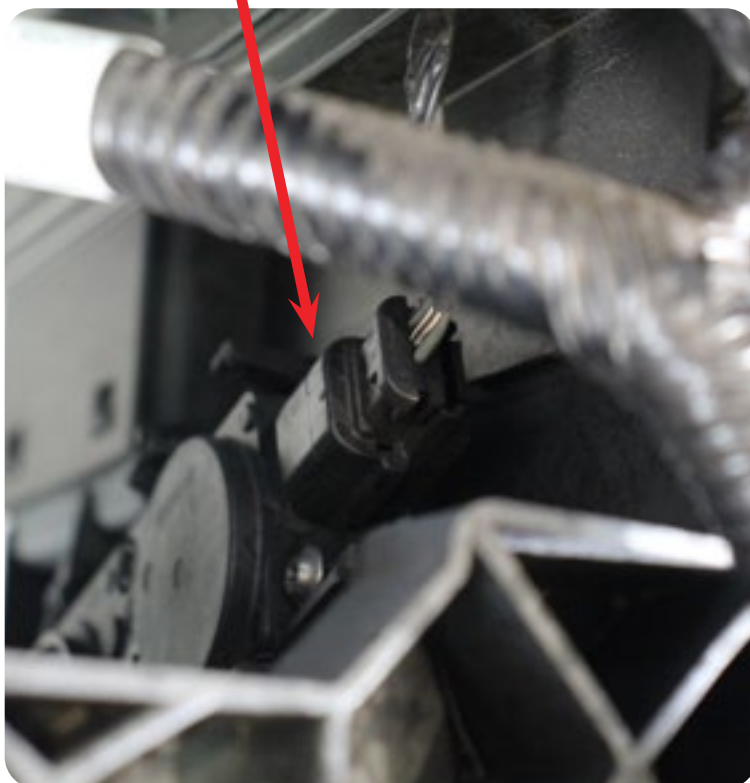
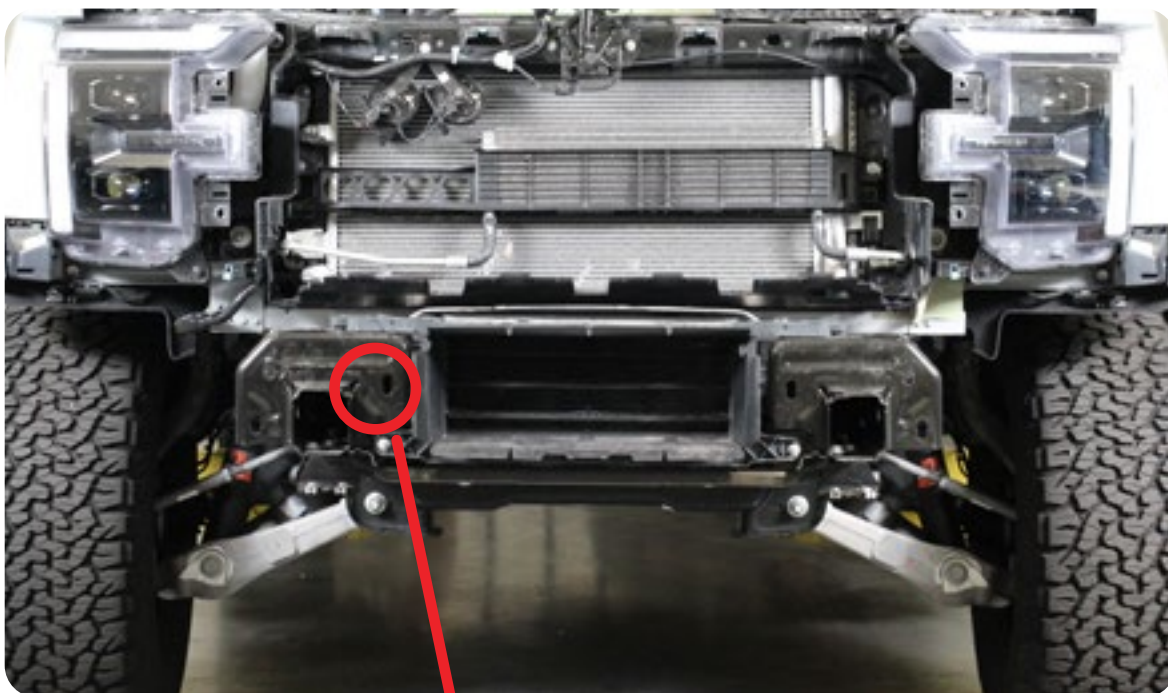
INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

REMOVAL

□ STEP 6

Locate the heat exchanger/intercooler shutter motor plug as shown below.





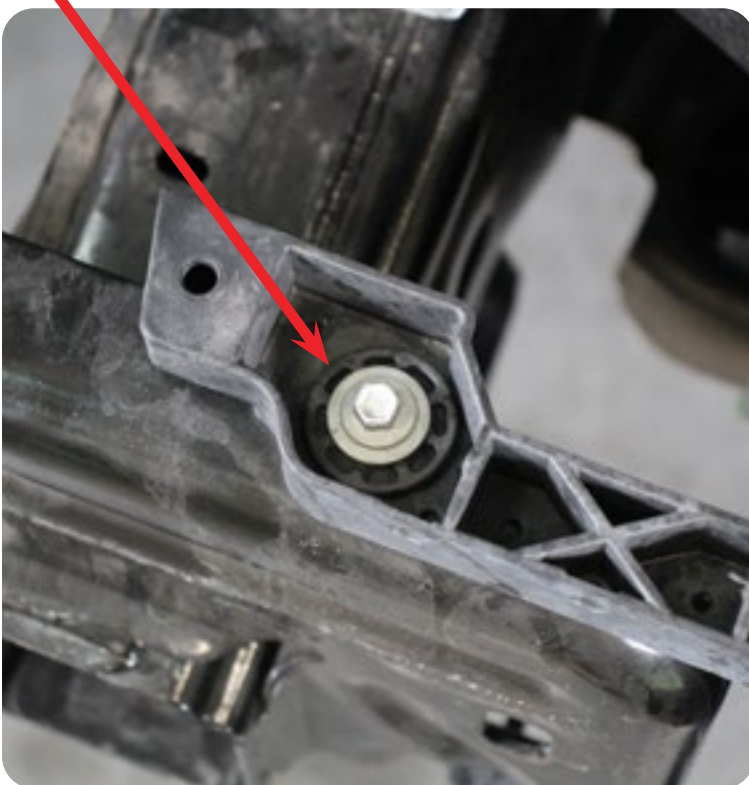
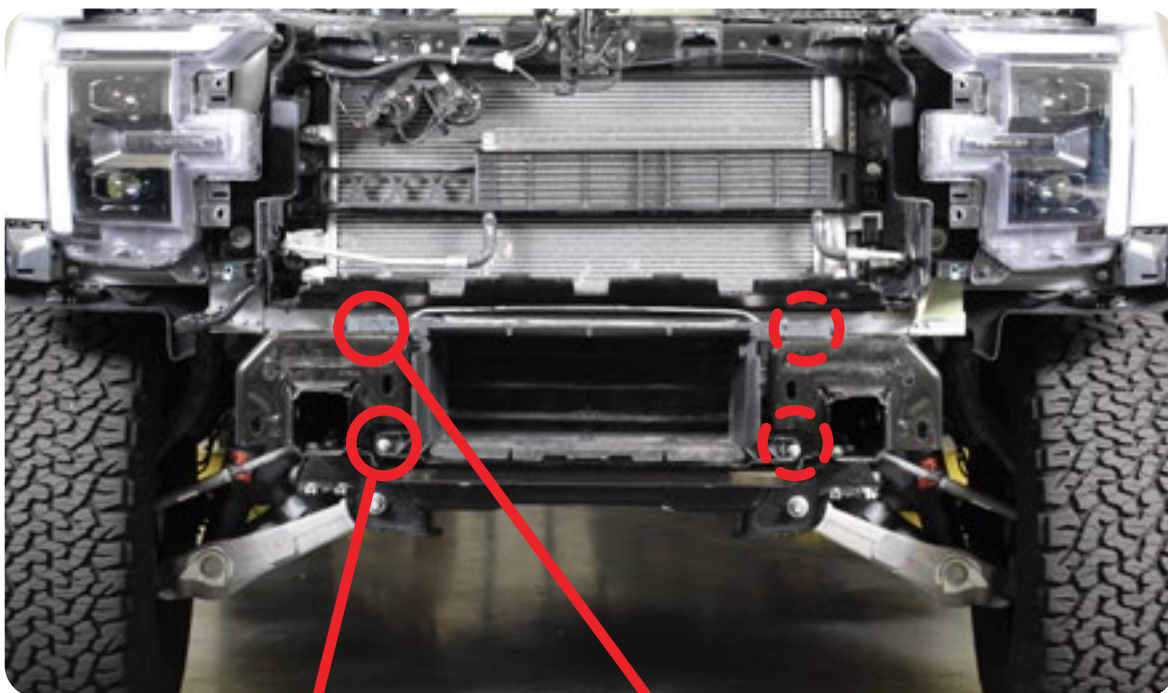
INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

REMOVAL

□ STEP 7

Using a (10mm socket) remove the (4) bolts indicated below.
Then remove the heat exchanger/intercooler shutter grill.





INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

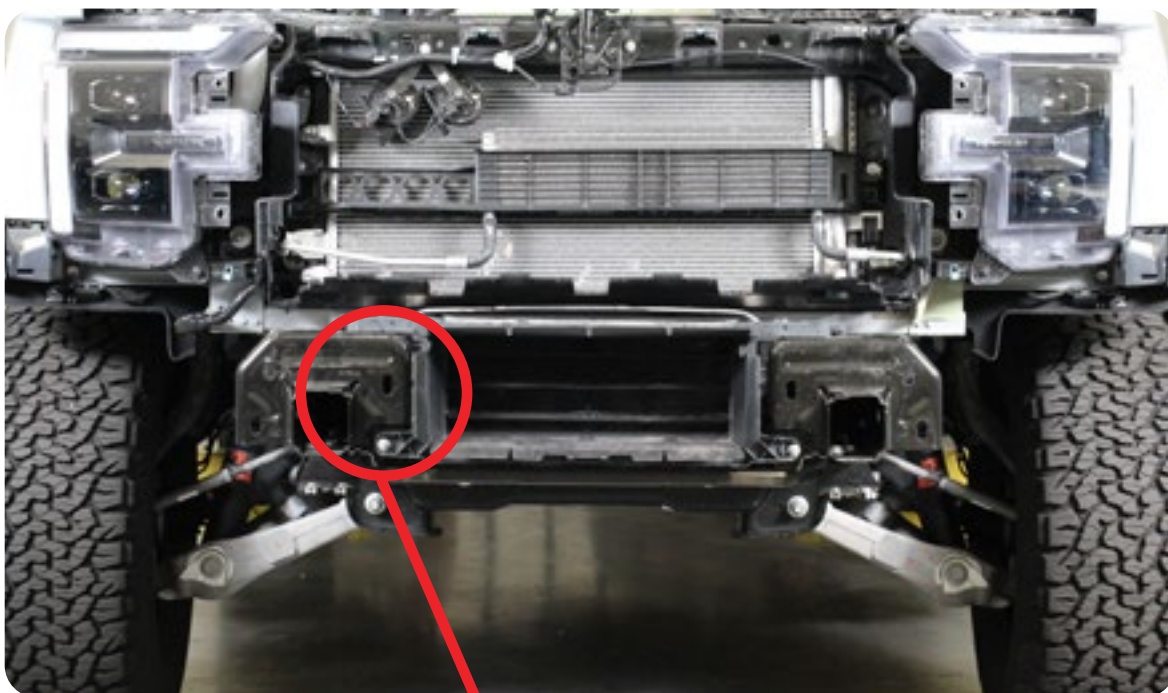
REMOVAL

□ STEP 8

Locate the shutter motor on the side of the shutter grille, Then use a (T27 Torx) to remove the shutter motor.

Refer to the install guide linked below for the shutter motor relocation kit.

https://www.addictivedesertdesigns.com/cdn/shop/files/ADD_InstallGuide_AC1300900NA.pdf?v=4894805209185784070





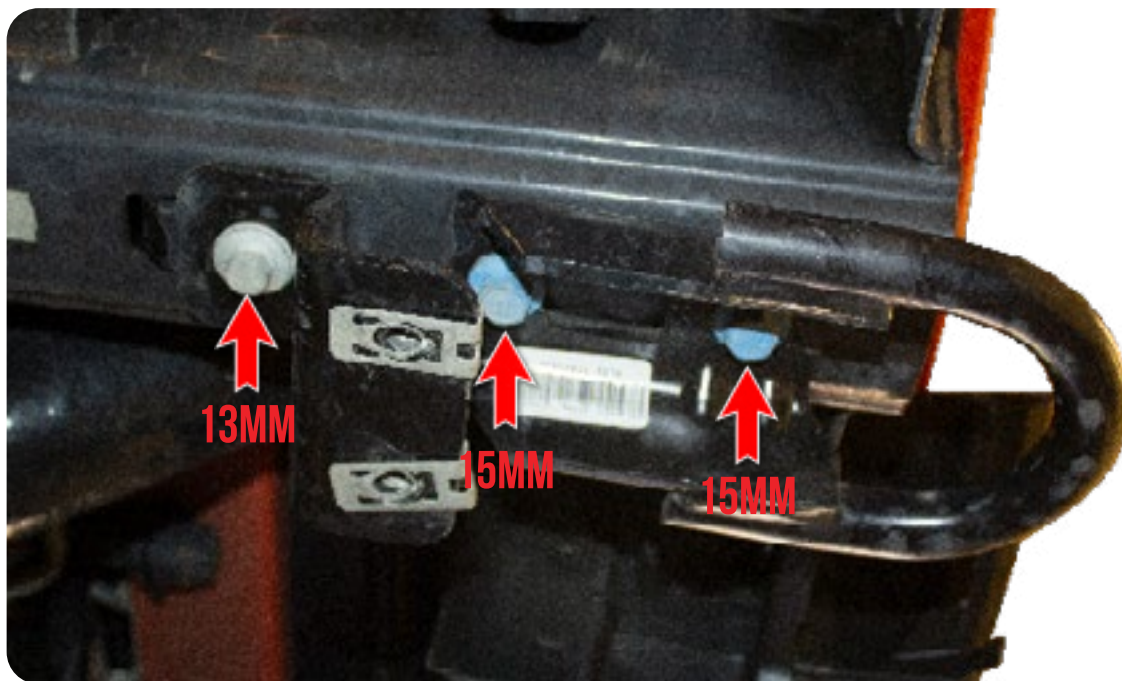
INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

REMOVAL

□ STEP 9

Remove the tow hooks and the skid plate mount by using a (15mm socket) and a (13mm socket).





INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

REMOVAL

☐ STEP 10

Remove the OEM nut clips for the skid plate bottom mounts and replace with the provided (A7) 3/8" nut clips.



PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

REMOVAL

□ STEP 11

Using a (10mm and a 13mm socket), remove the covers to expose the wire harness.





INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER
2021-UP/FORD F-150 RAPTOR

REMOVAL





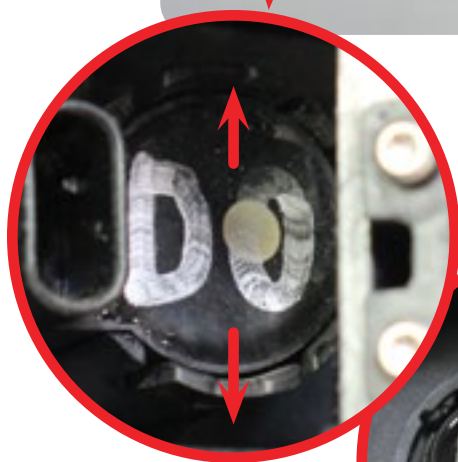
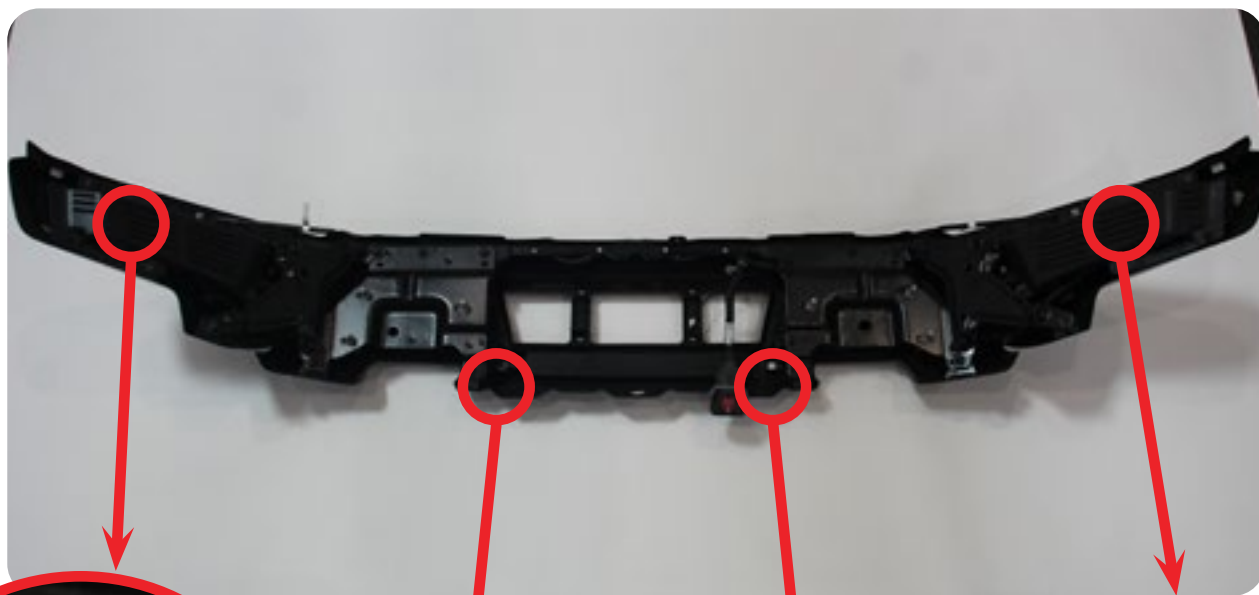
INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

REMOVAL

□ STEP 12

Remove all four parking sensors from the stock bumper and remove wire harness.
(Remember the factory orientation of each sensor for the install)





INSTALLATION GUIDE

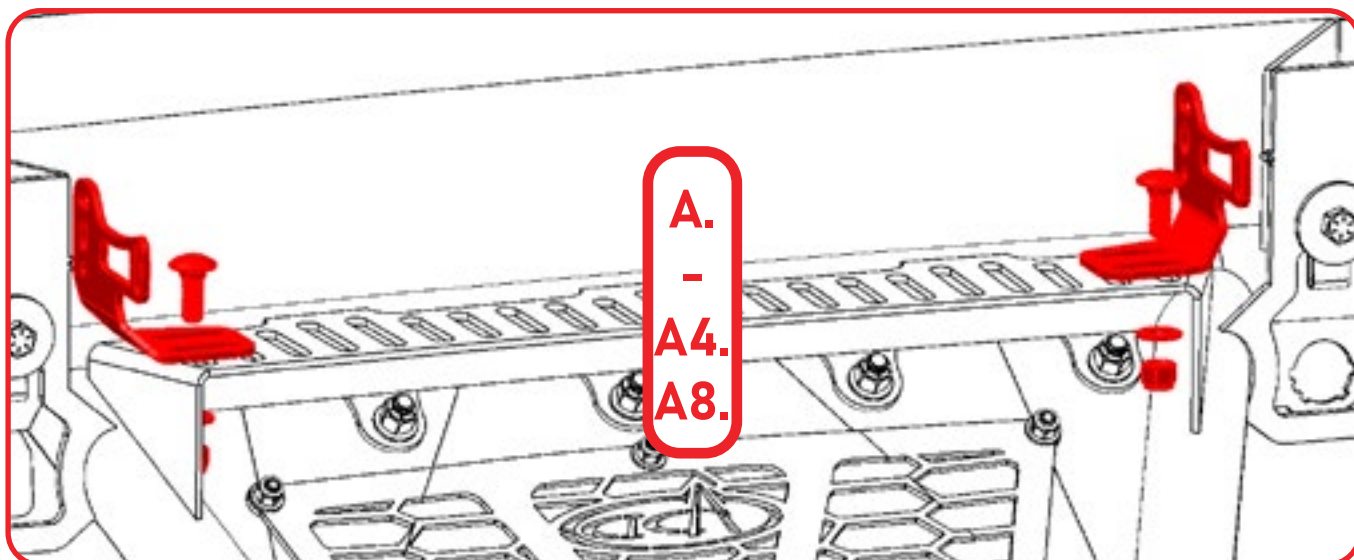
PRO-PLUS BOLT-ON FRONT BUMPER

2021-UP/FORD F-150 RAPTOR

INSTALL

□ STEP 13

Now would be a good time to install your light configuration. If installing a light bar use the provided light mounts, (A, A4, A8) 3/8 hardware, and a (9/16 wrench).





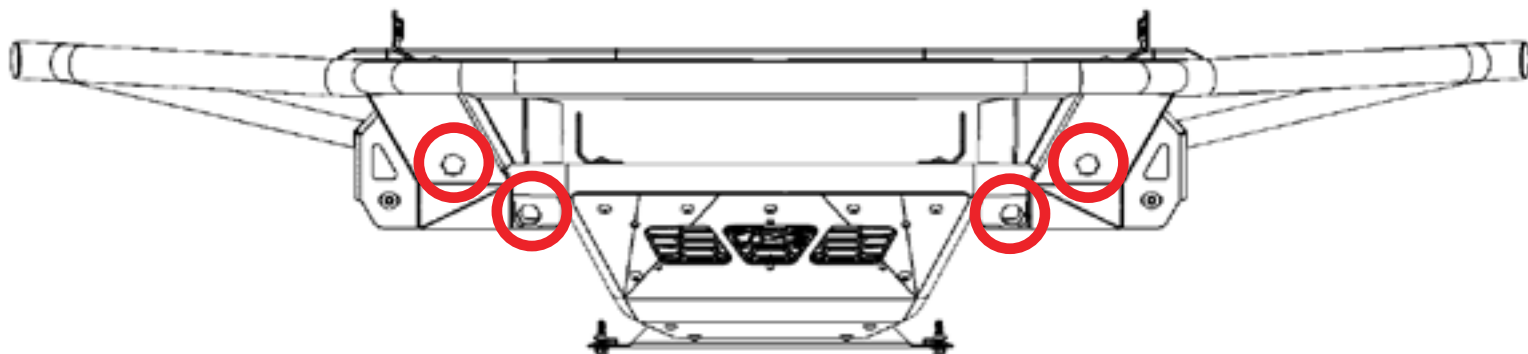
INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

INSTALL

□ STEP 14

Install the sensor bezels into the ADD bumper. ****If the bezels do not click into place you may have to trim the tabs to match the thickness of the bumper as shown below****





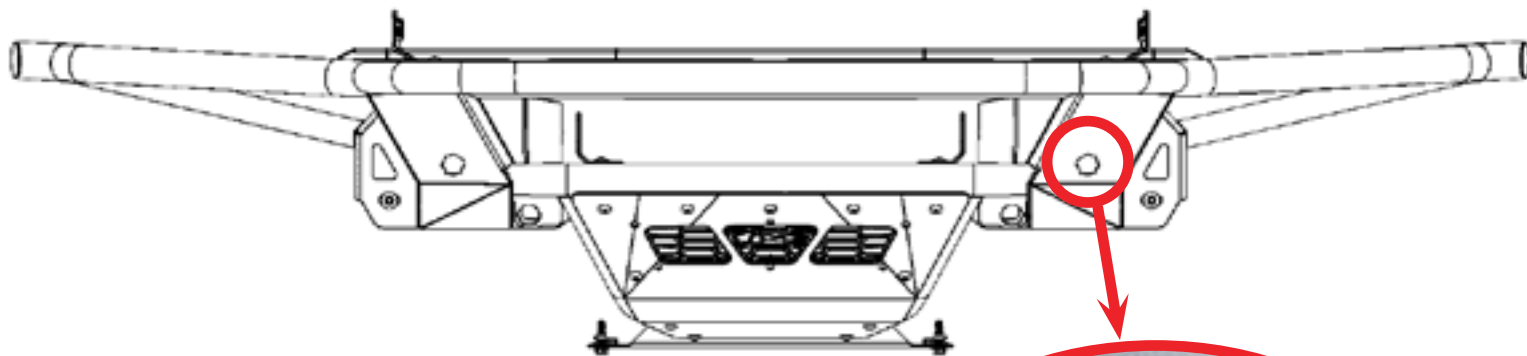
INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

INSTALL

□ STEP 15

Driver outer sensor orientation





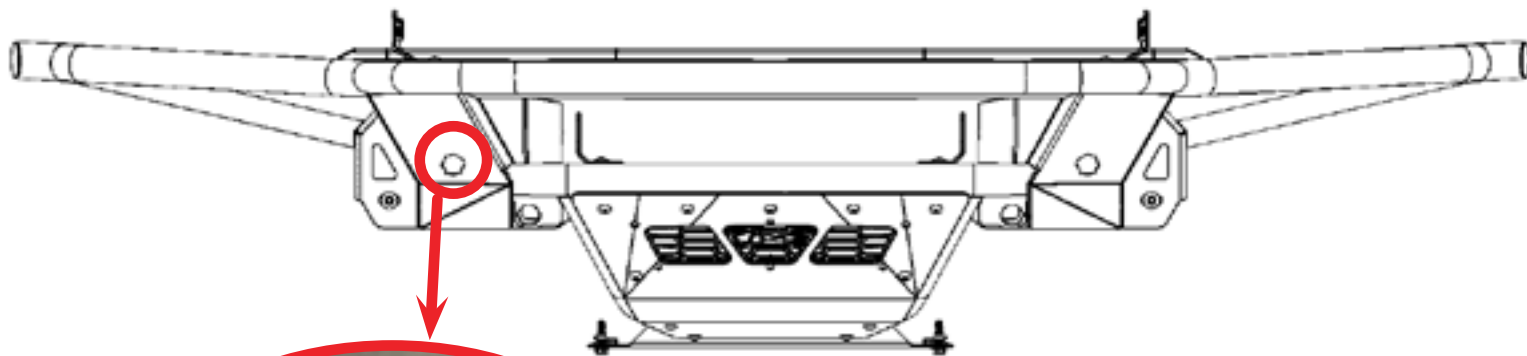
INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

INSTALL

□ STEP 16

Passenger outer sensor orientation





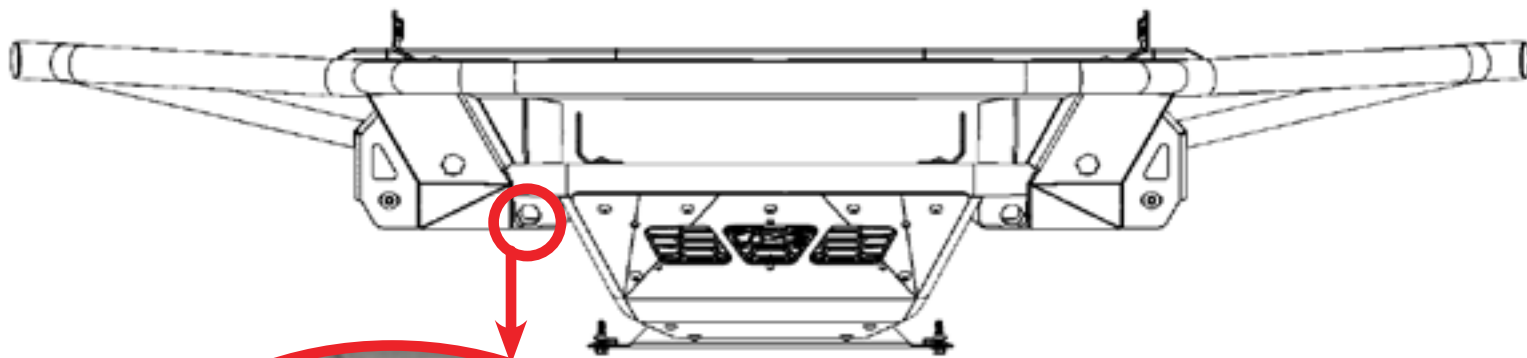
INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

INSTALL

□ STEP 17

Passenger inner sensor orientation.





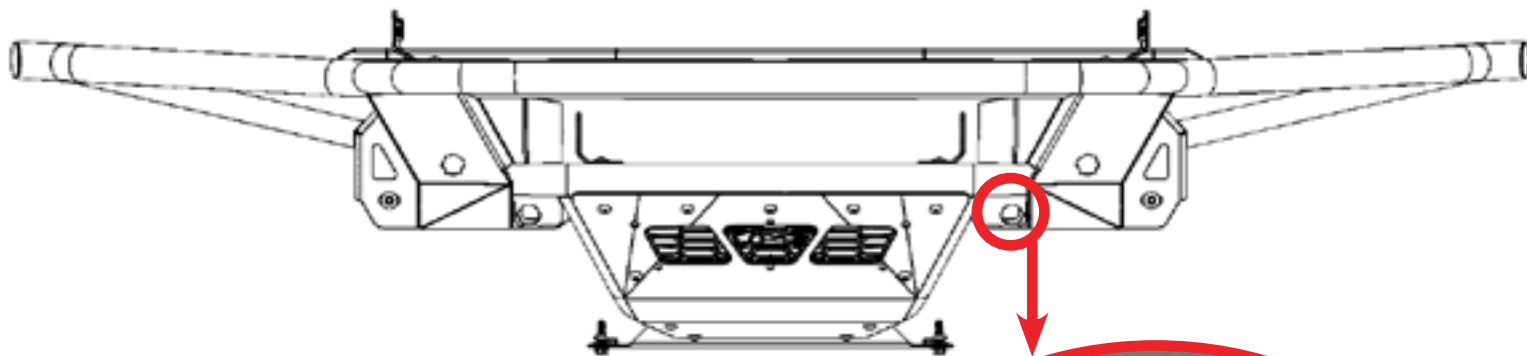
INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

INSTALL

□ STEP 18

Passenger inner sensor orientation.



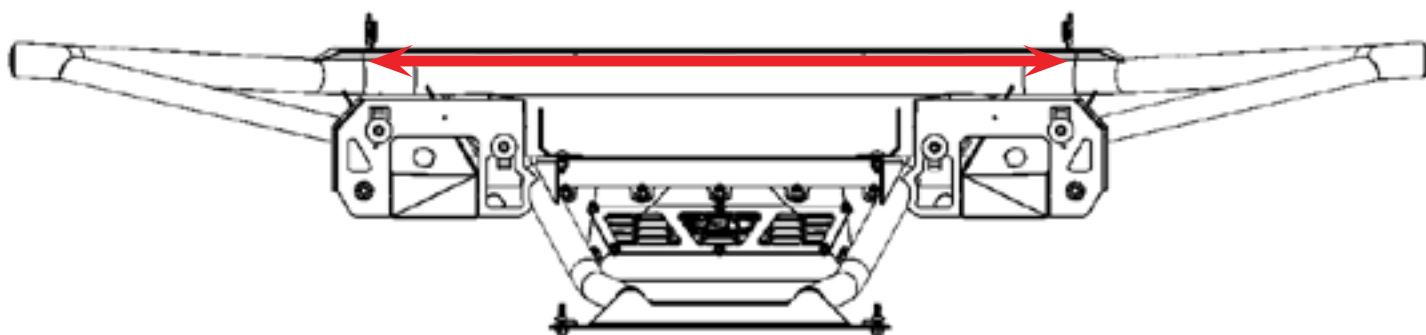


PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

INSTALL

□ STEP 19

Route the wiring harness along the top edge utilizing the zip tie slots along the line below.





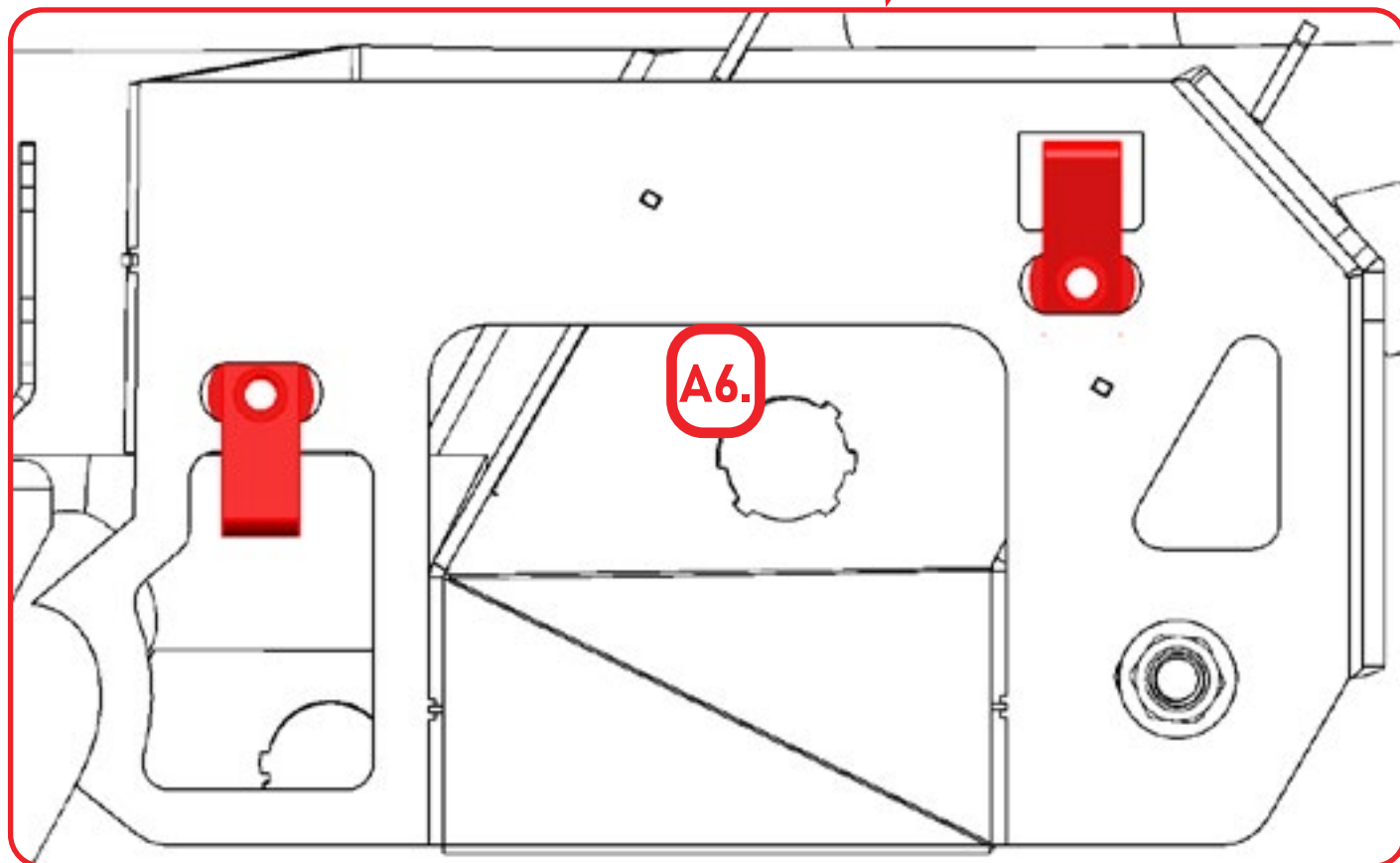
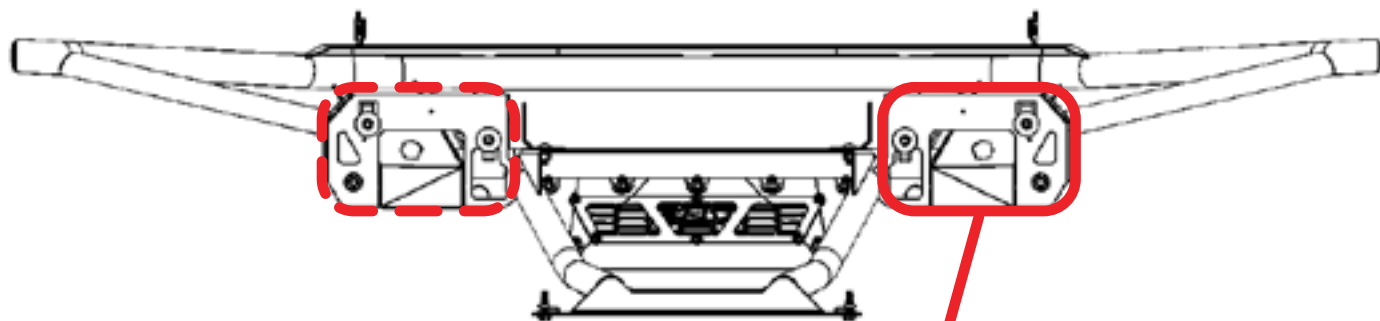
INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

INSTALL

□ STEP 20

Install the provided (A6) 3/8" U-Nut.





INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

INSTALL

□ STEP 21

With a helping hand, install the bumper with the provided (A1, A5) 3/8" Hardware using a (9/16 socket).



A5. A1.



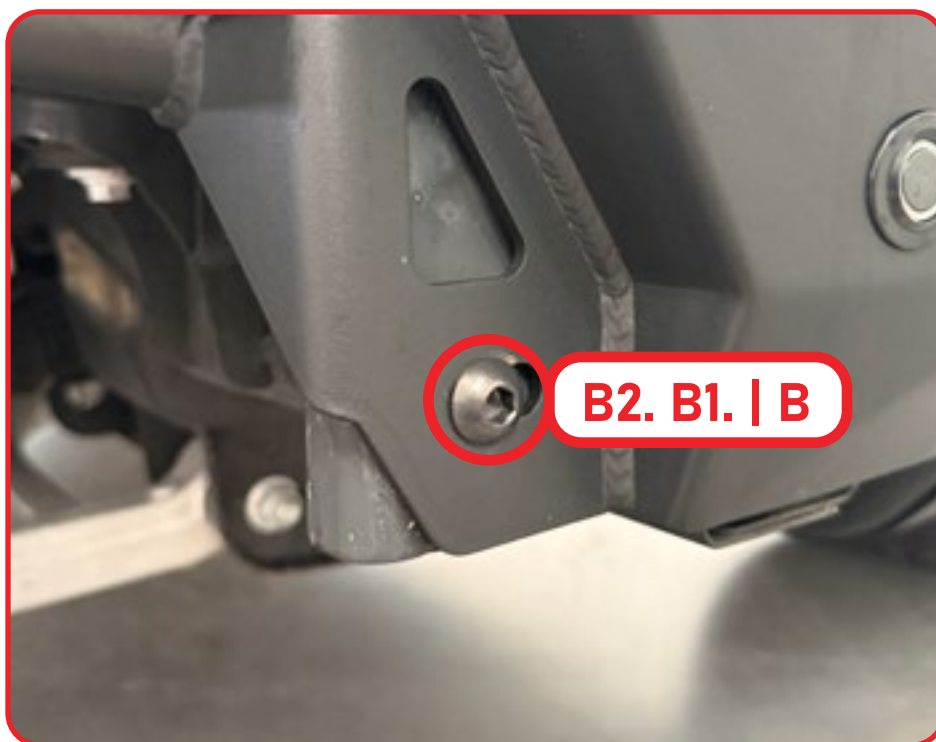
INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

INSTALL

□ STEP 22

Install the provided **(B, B1, B2)** 1/2" hardware using a (3/4" wrench) and a (5/16 allen).





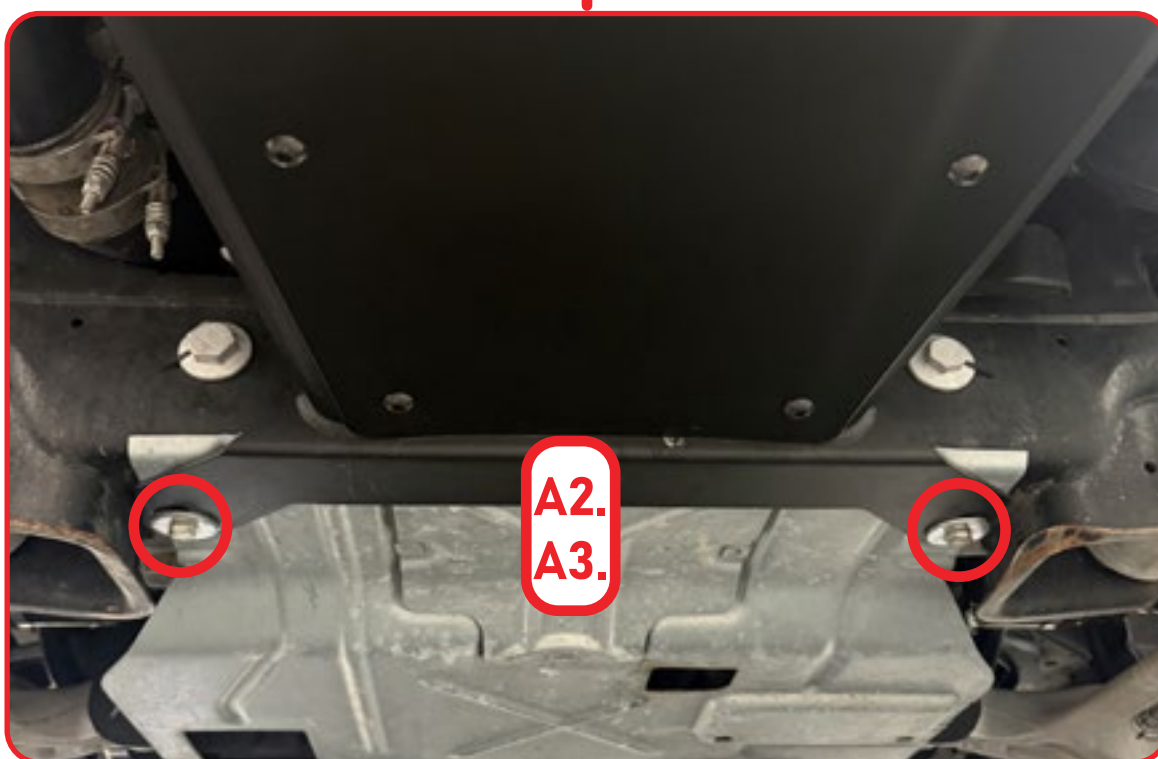
INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

INSTALL

□ STEP 23

Secure the bottom of the skid plate by reinstalling the factory spacer and using the provided (A2, A3) 3/8 hardware and a (9/16 socket).

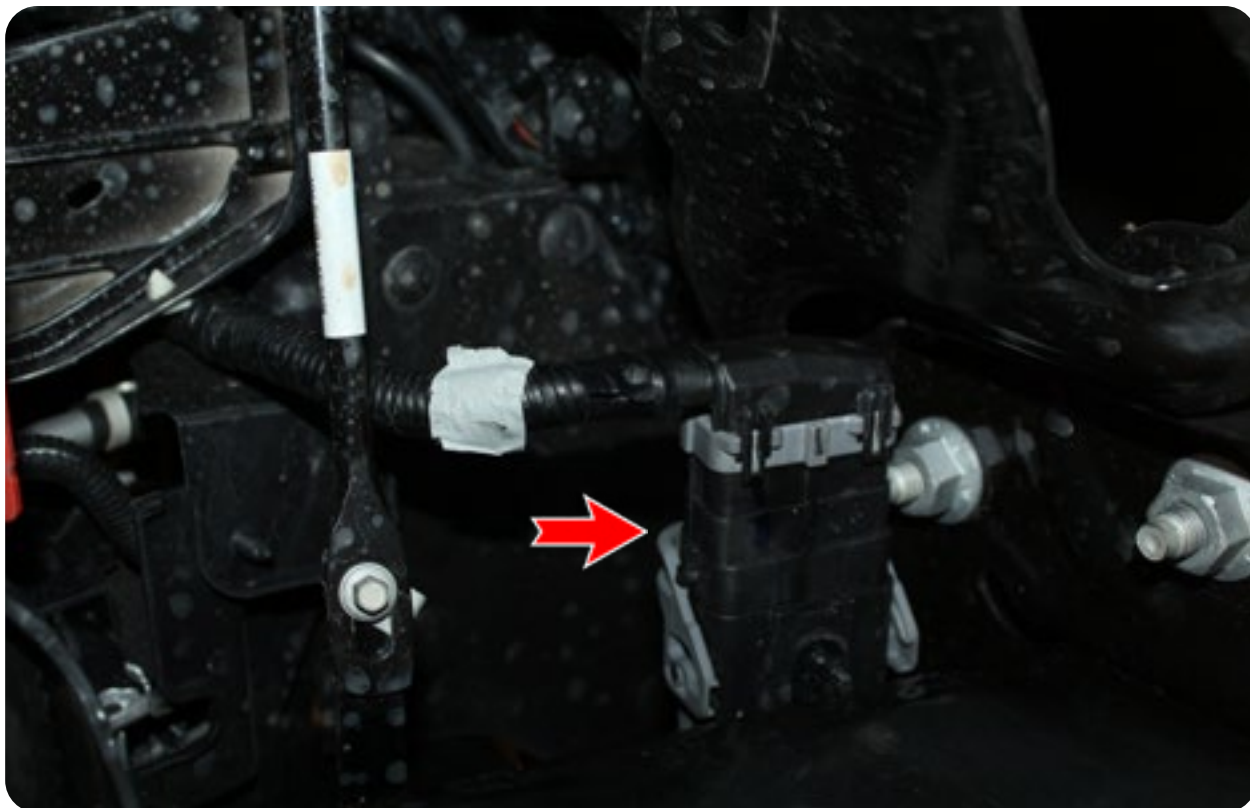


PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

INSTALL

□ STEP 24

Plug in the wire harness. ****Ensure the clip is fully pushed down when plugged in as shown below****





INSTALLATION GUIDE

PRO-PLUS BOLT-ON FRONT BUMPER 2021-UP/FORD F-150 RAPTOR

FINAL

□ STEP 25

Stand back and enjoy your new ADD Pro-Plus Bolt-On Front Bumper.

Check and re-tighten 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