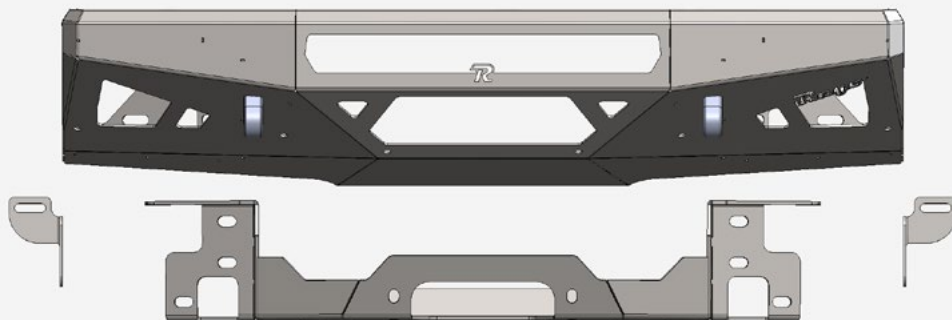


CENTER MOUNT WINCH FRONT BUMPER

2025-UP/TOYOTA 4RUNNER

F7103630701NA



TOOLS REQUIRED

- 10mm, 12mm, 17mm, 9/16, 3/4 sockets
- 10mm, 12mm, 17mm, 9/16, 3/4 wrenches
- Pushpin Puller or Flathead Screwdriver
- Phillips Screwdriver
- 7/32, 5/16 Allen
- Grinder/Jigsaw



SKILL LEVEL

- Medium/Skilled



TIME REQUIRED

- Approximately 2.5 Hours

⚠ 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: 830-896-7571

Rago Fabrication 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.

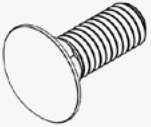
Inspect all contents of this package to make sure product is not damaged and all installation hardware has been included. If parts are missing from kit, please be prepared to provide the following information:

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

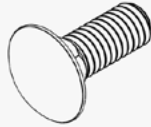
A.



3/8-16 X 1" CARRIAGE BOLT RAW

QTY: 2

B.



3/8-16 X 1" CARRIAGE BOLT BLACK

QTY: 4

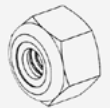
B1.



3/8" FLAT WASHER BLACK

QTY: 6

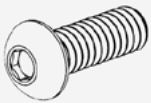
B2.



3/8-16" NYLON LOCK NUT BLACK

QTY: 6

C.



3/8-16 X 1/2" BUTTON HEAD BOLT

QTY: 6

C1.



3/8-16" JAM NUT

QTY: 6

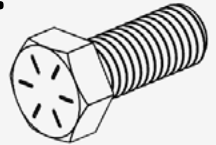
C2.



3/8" FLAT WASHER ZINC

QTY: 6

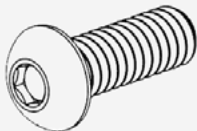
D.



1/2-13 X 1 1/2" HEX HEAD BOLT BLACK

QTY: 10

E.



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

QTY: 2

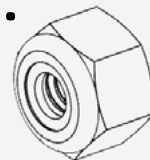
E1.



1/2" FLAT WASHER

QTY: 24

E2.



1/2-13" NYLON LOCK NUT

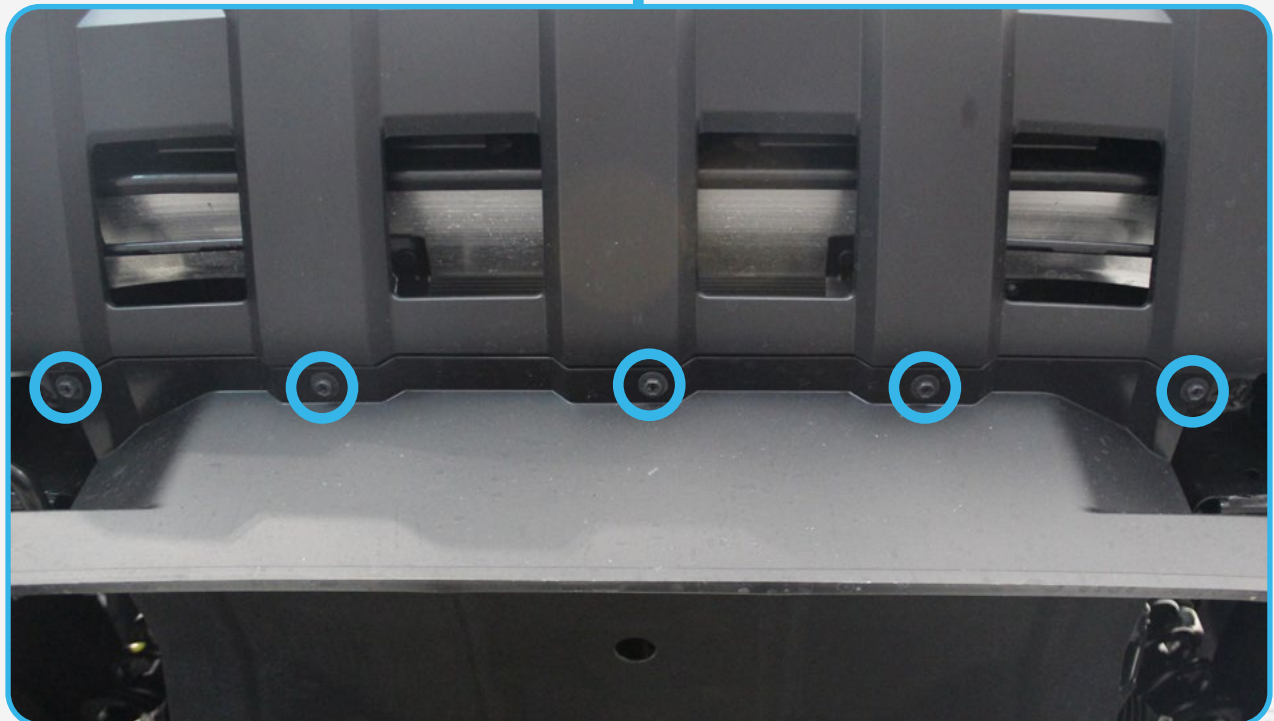
QTY: 12

Reference this page throughout the install



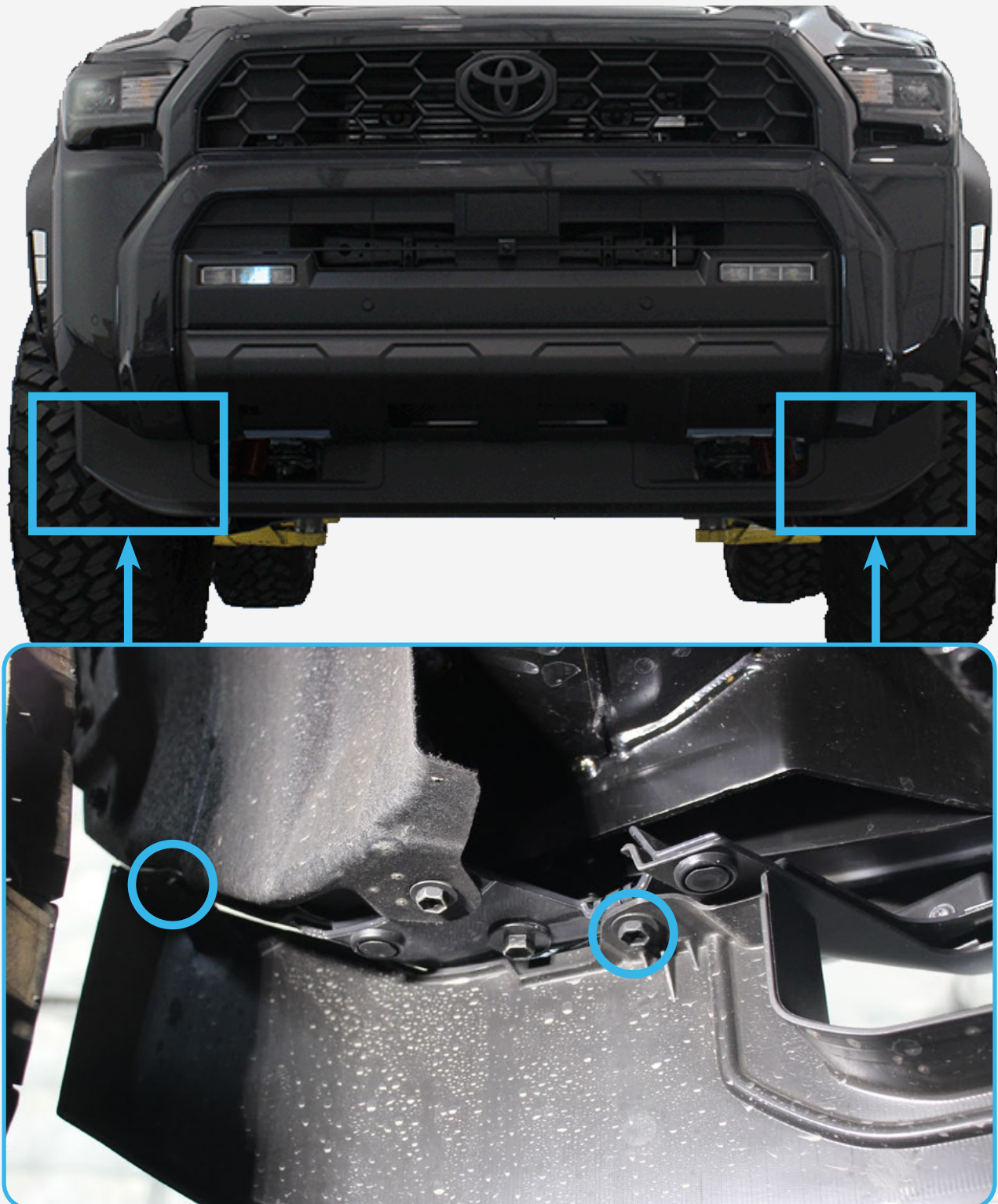
□ STEP 1

Using a (10mm socket) or a (Philips head Screwdriver), Remove the air dam hardware as shown below.



□ STEP 2

Using a (10mm socket) or a (Philips head Screwdriver), Remove the air dam hardware located in the wheel well as shown below.



☐ STEP 3

Using a (12mm Socket), Remove the skid plate. (Keep hardware for installation of skid plate)



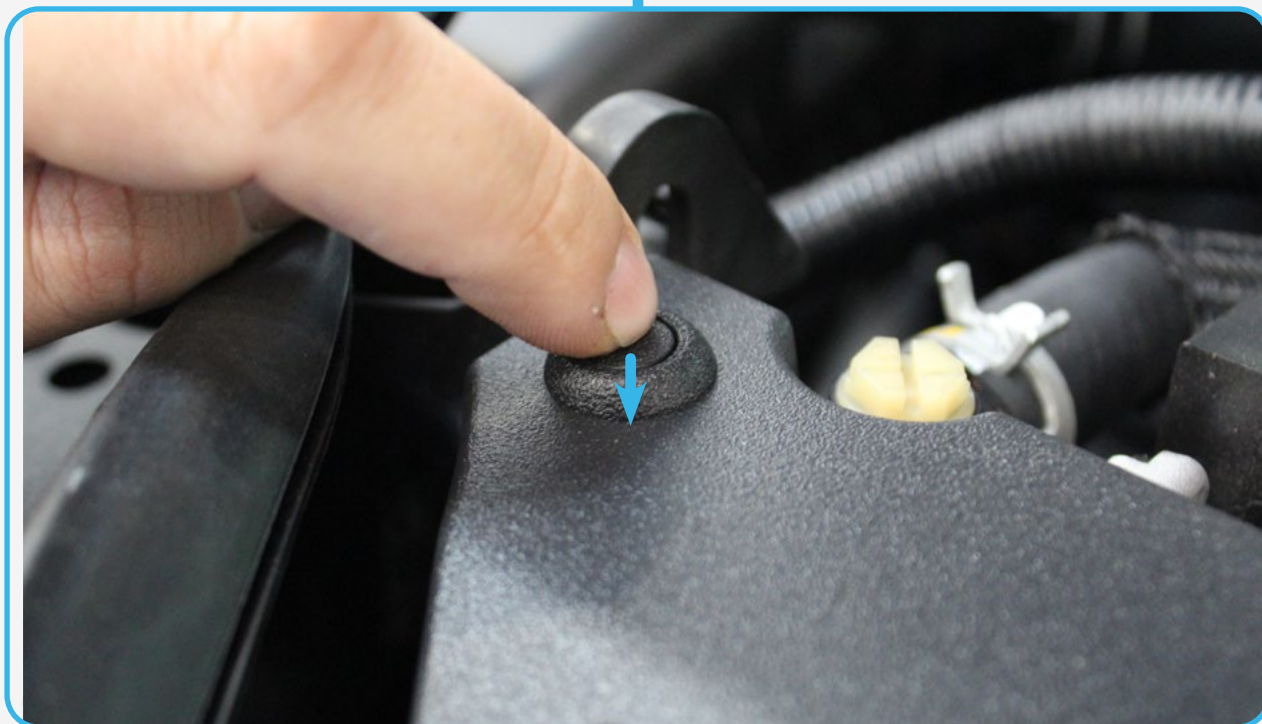
□ STEP 4

Using a (10mm socket), remove the 2x bolts located near the center of the front bumper as shown below.



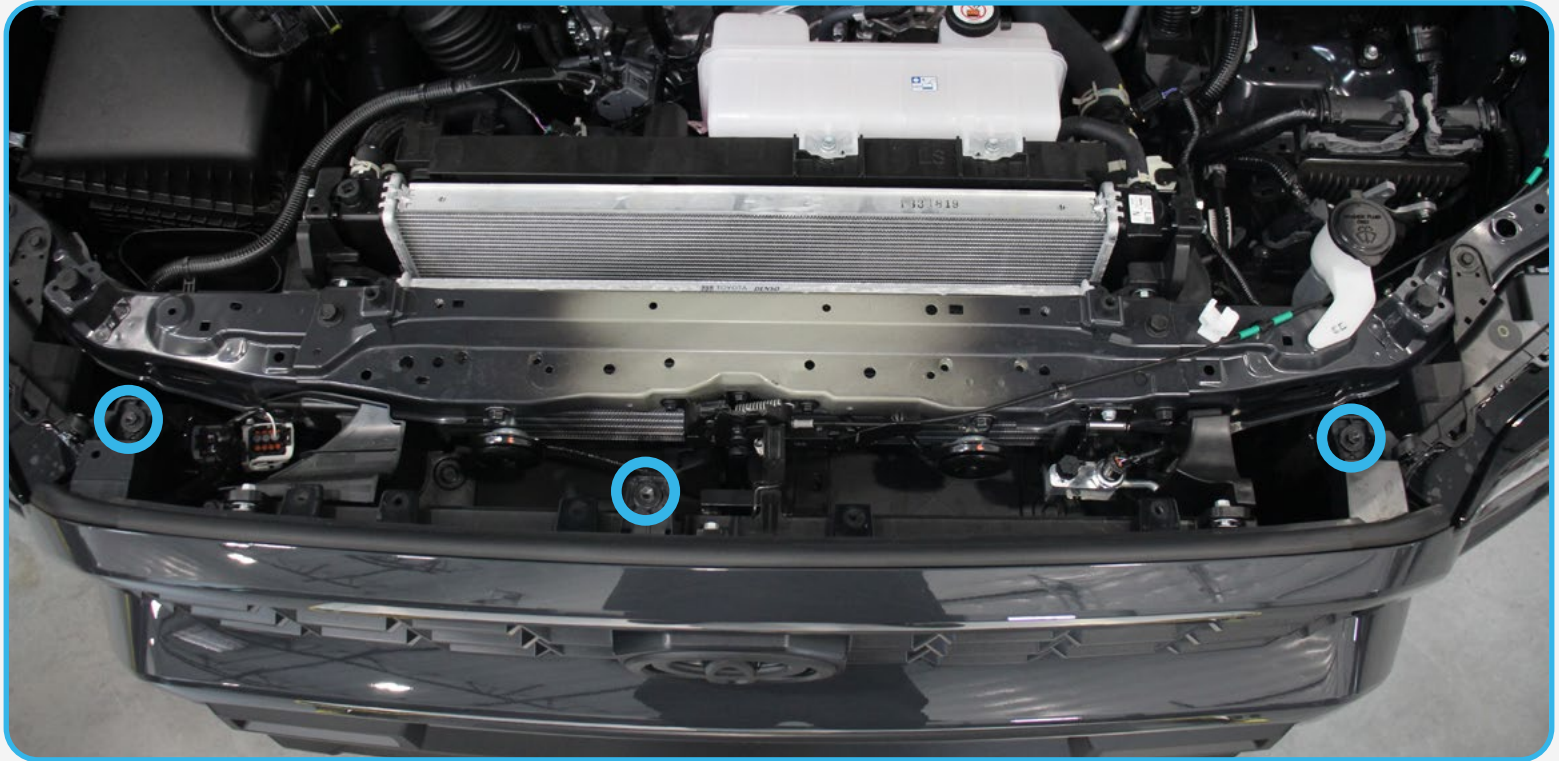
□ STEP 5

Open the hood and remove the 12x push pins by pushing the center down to release. Remove covers and set aside.



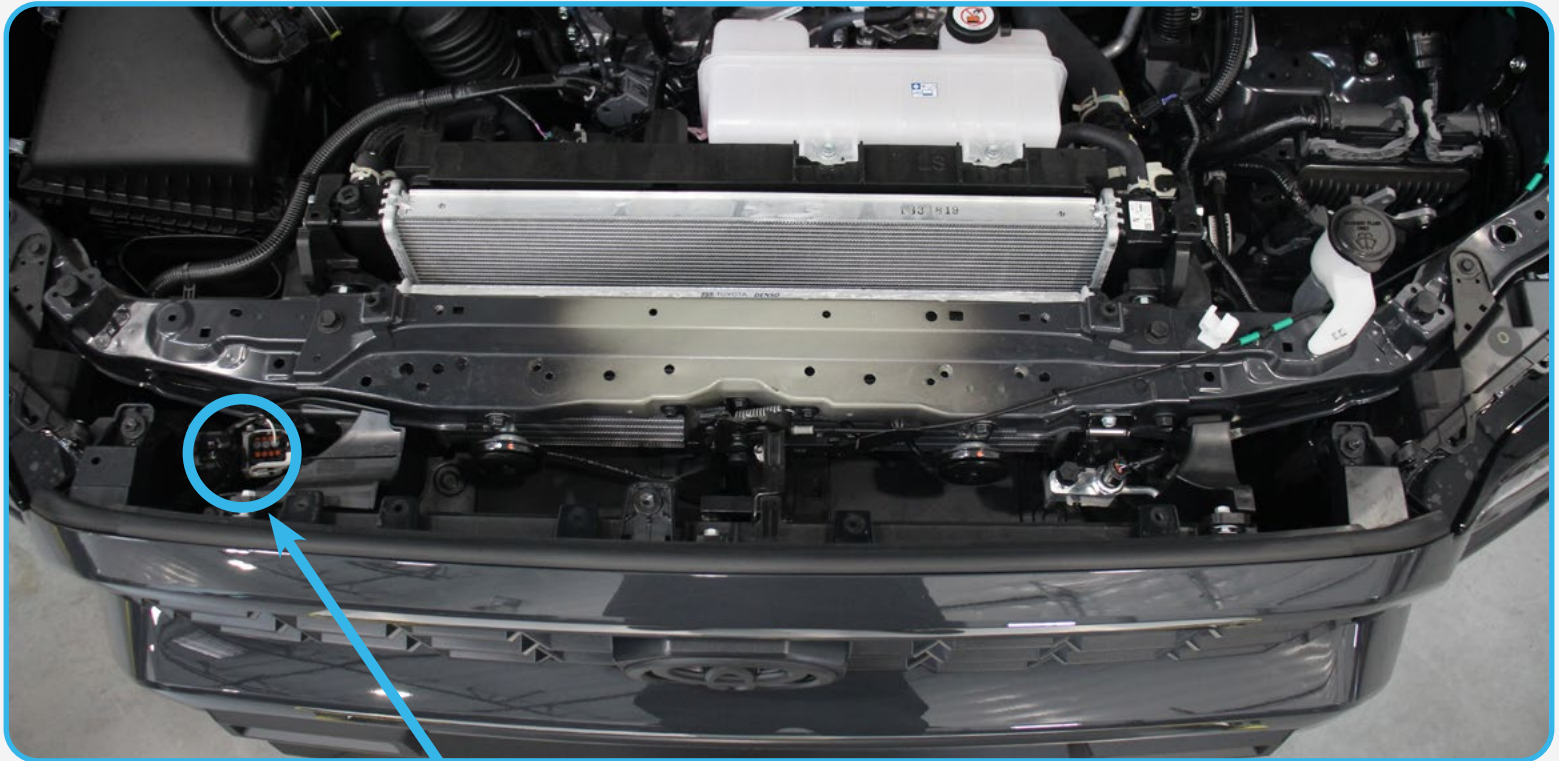
□ STEP 6

Using a (10mm socket) remove the 3x bolts as shown below.



□ STEP 7

Unplug the wiring harness and front camera plugs located on driver and passenger side.



□ STEP 8

Using a (flathead screwdriver) and a (10mm socket), remove the 4x bolts as shown below on each side located inside the wheel well.



□ STEP 9

Pull the fender flair outwards to separate the bumper and grill from the inner fender liner.



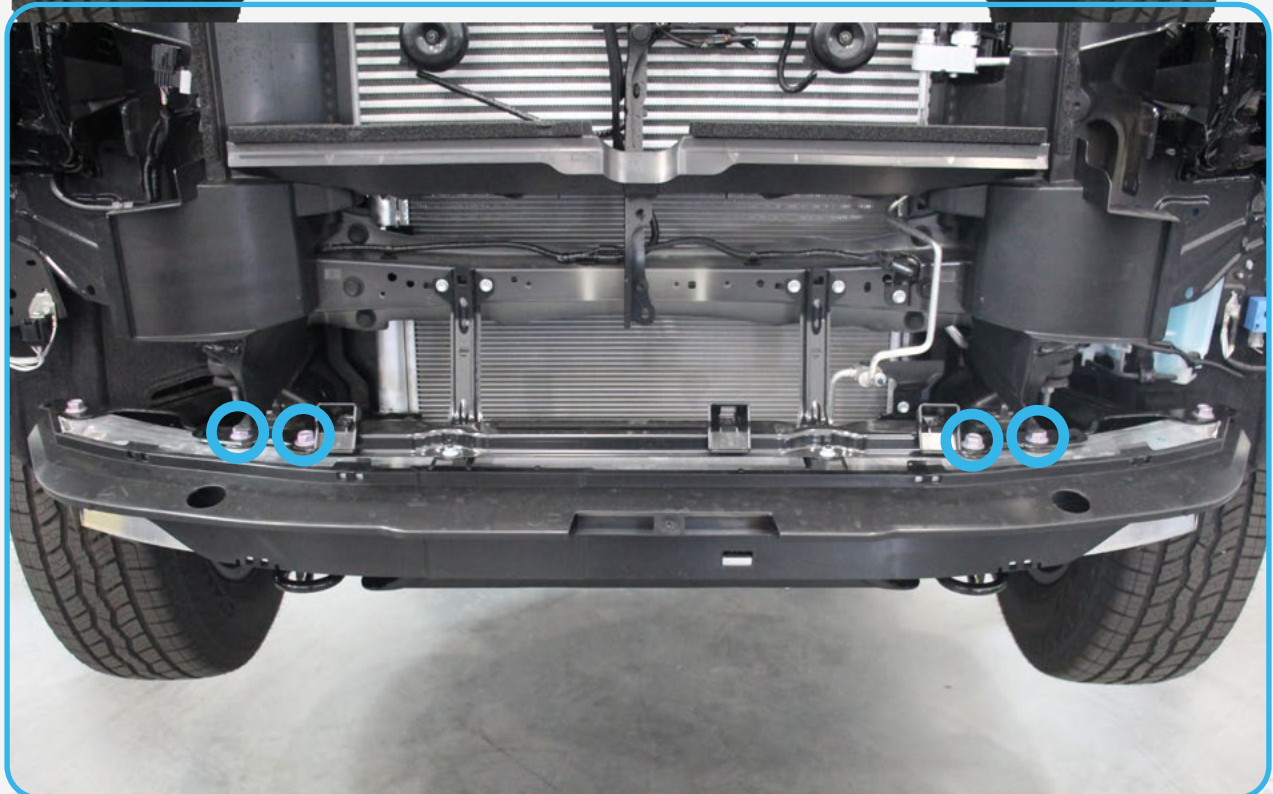
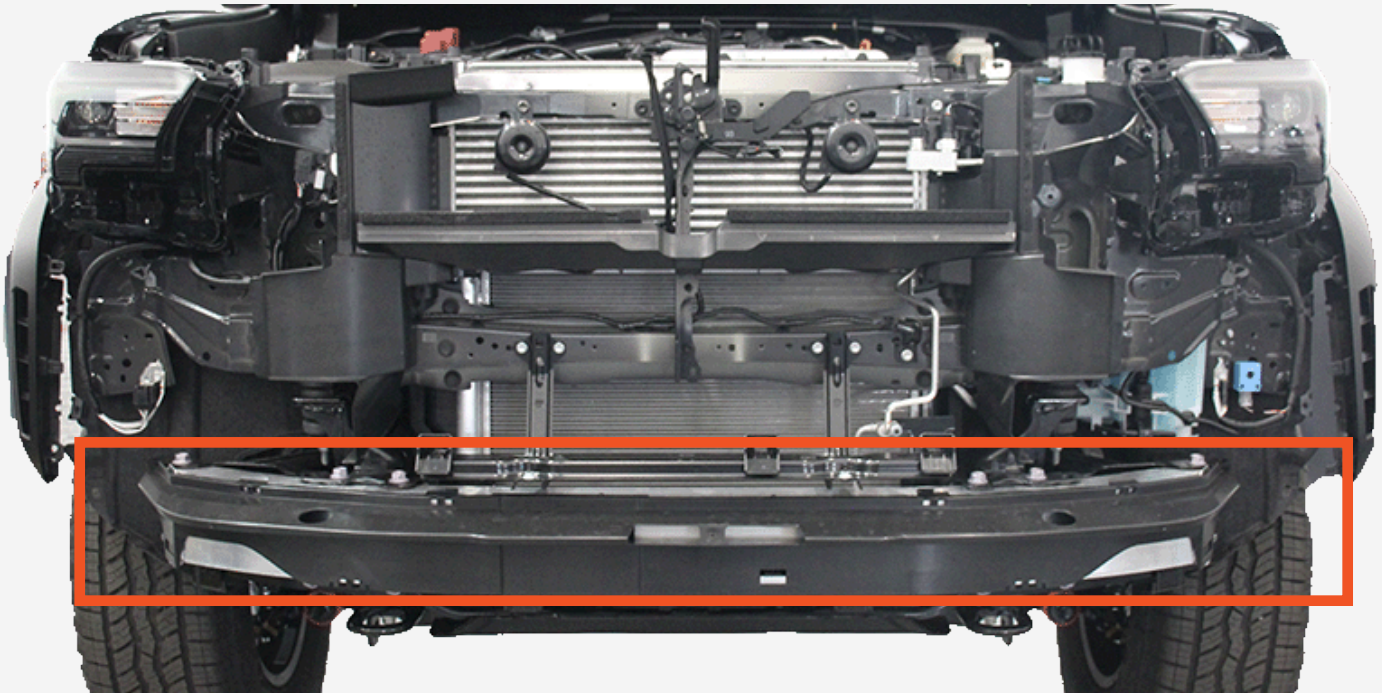
□ STEP 10

Using a (10mm socket), remove the bolts located behind the fender flair as shown below. You can now remove the bumper/grill assembly.



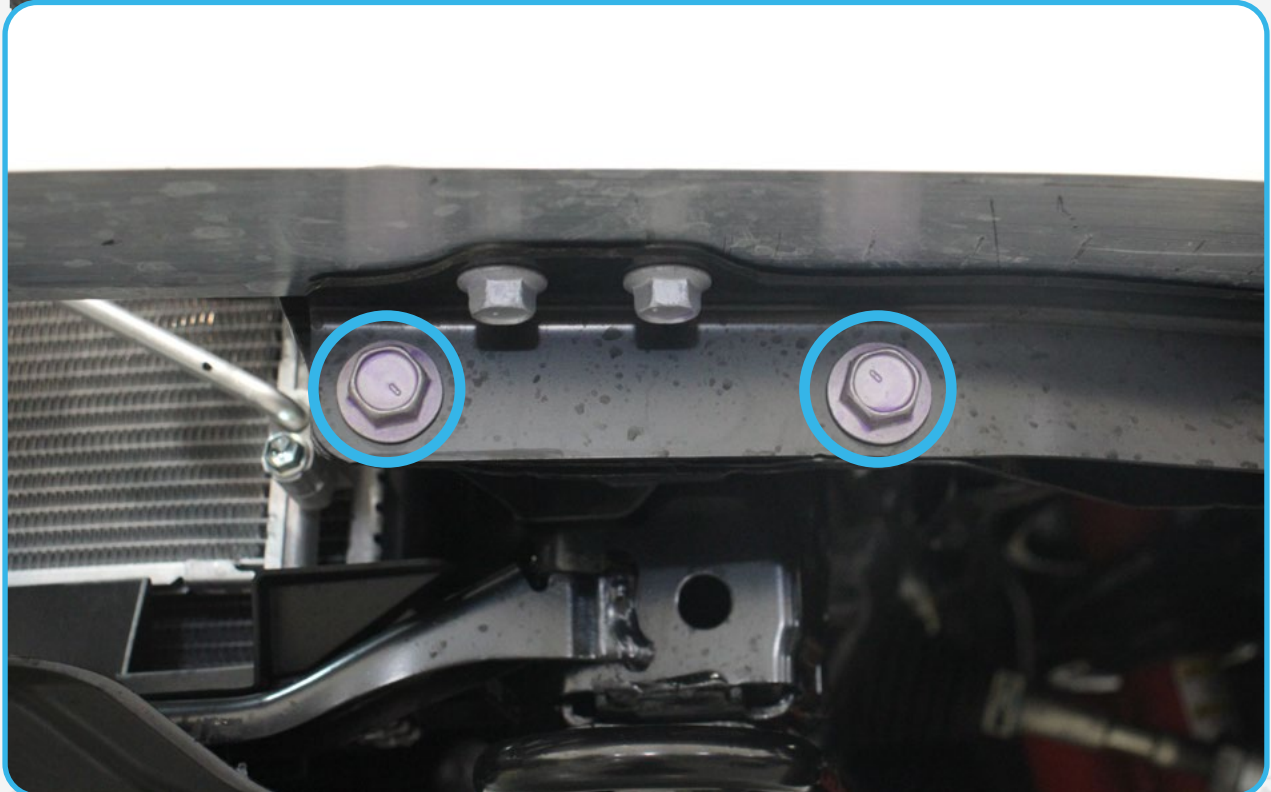
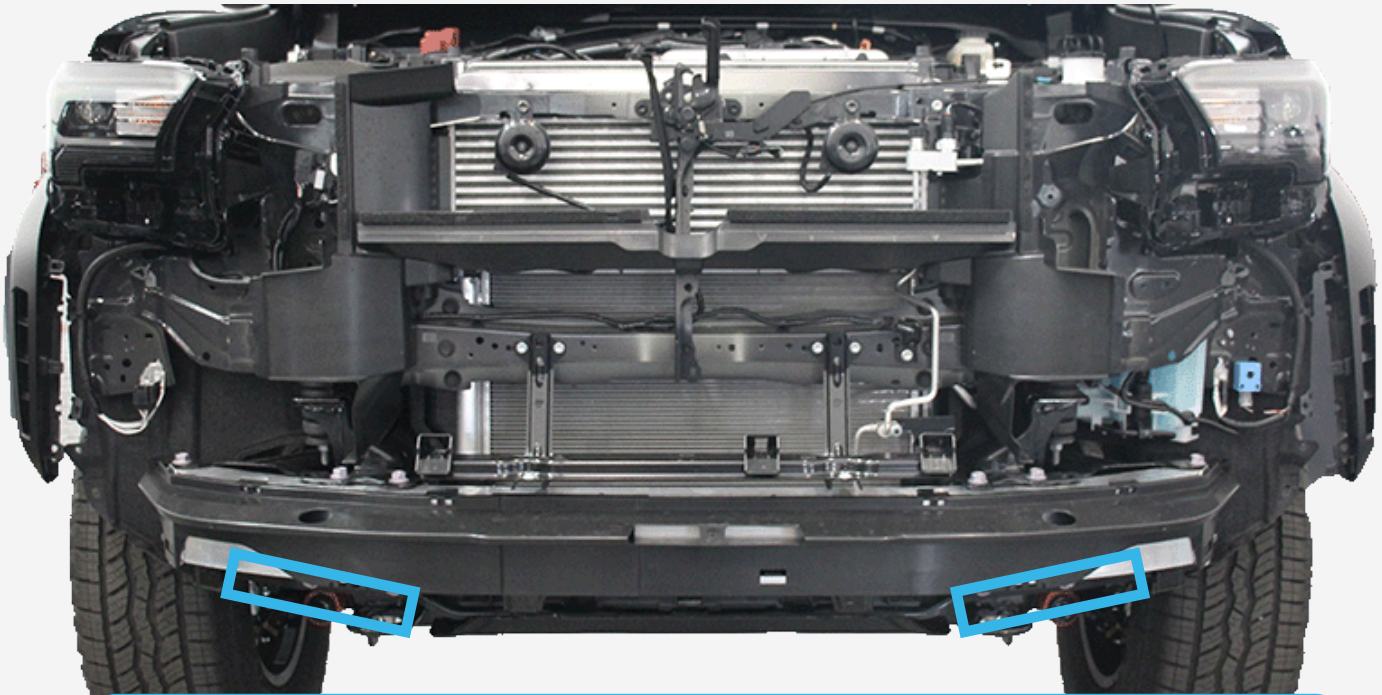
□ STEP 11

Remove the crash bar cover, Next using a (17mm socket), remove the 4x bolts located on top of the crash bar as shown below.



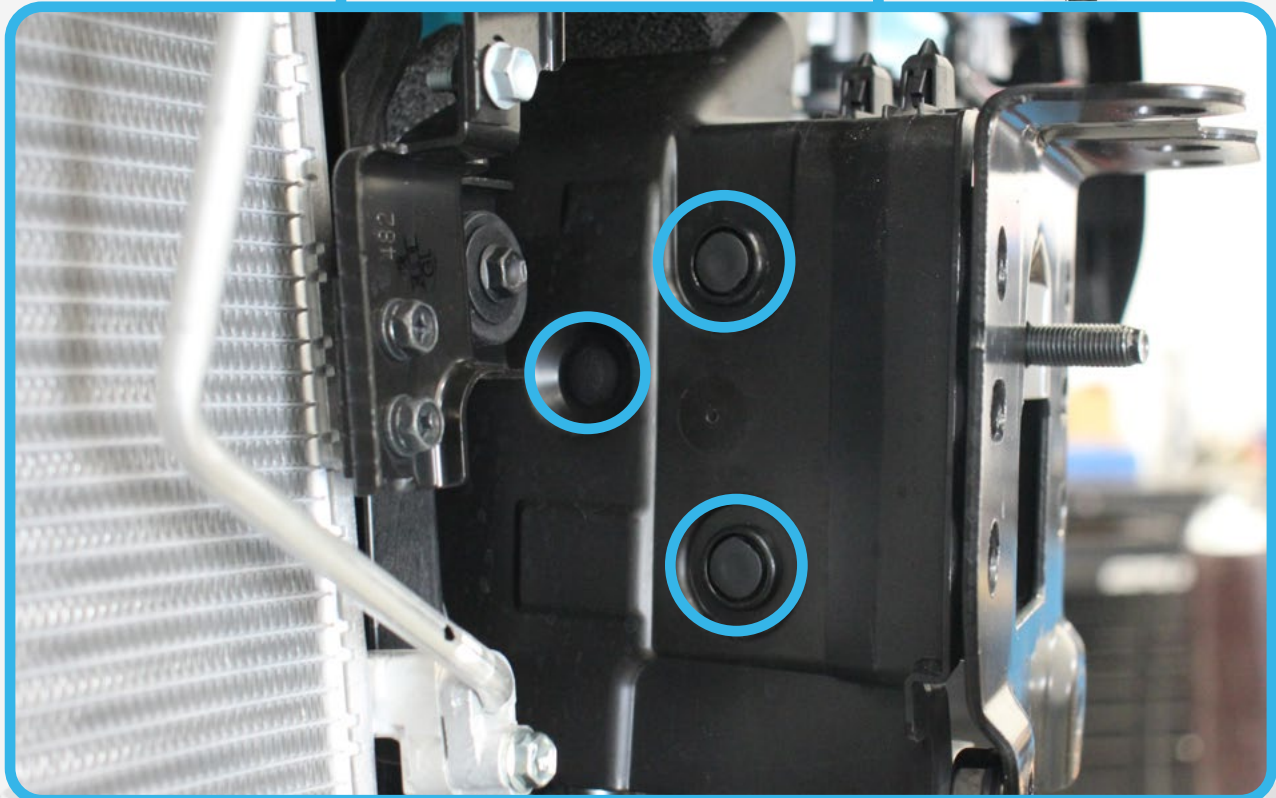
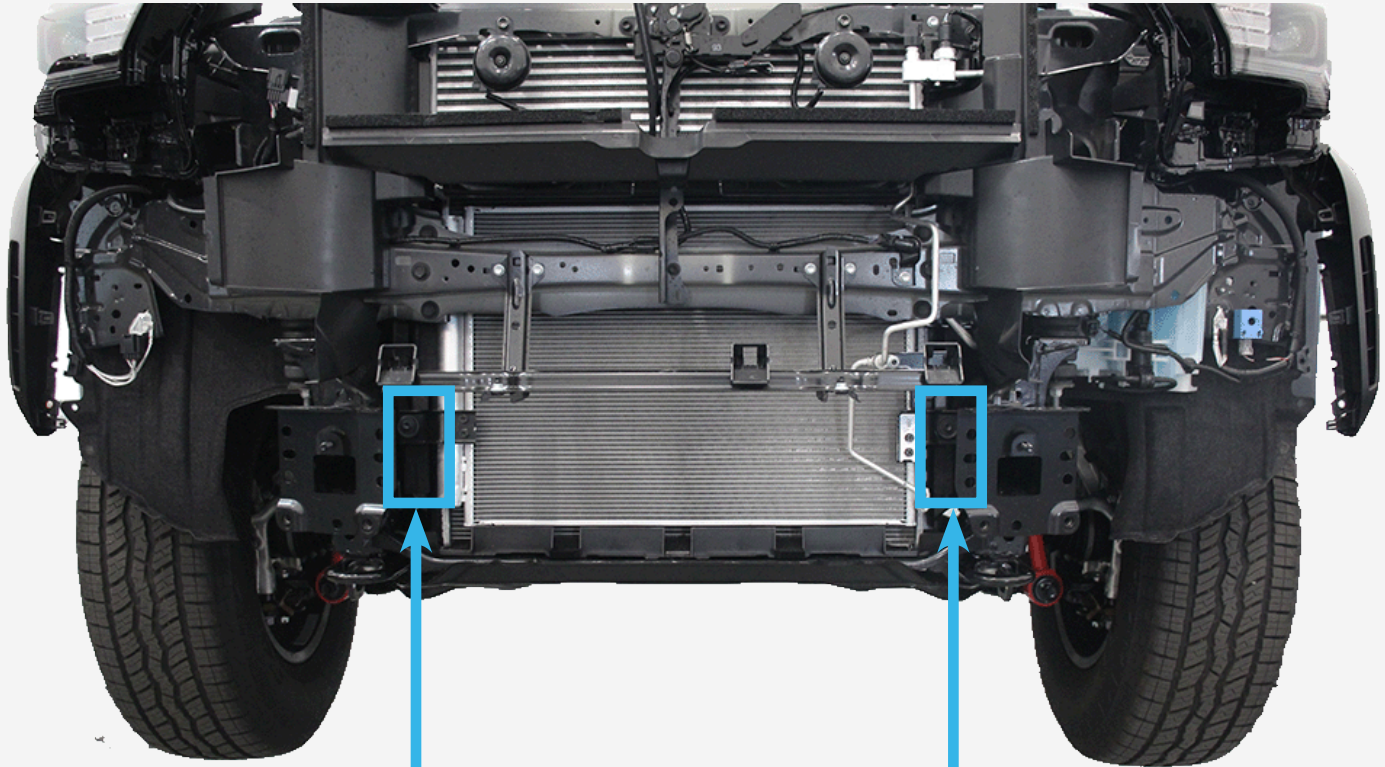
□ STEP 12

Using a (17mm socket), remove the 4x bolts located under the crash bar as shown below. You can now remove the crash bar.



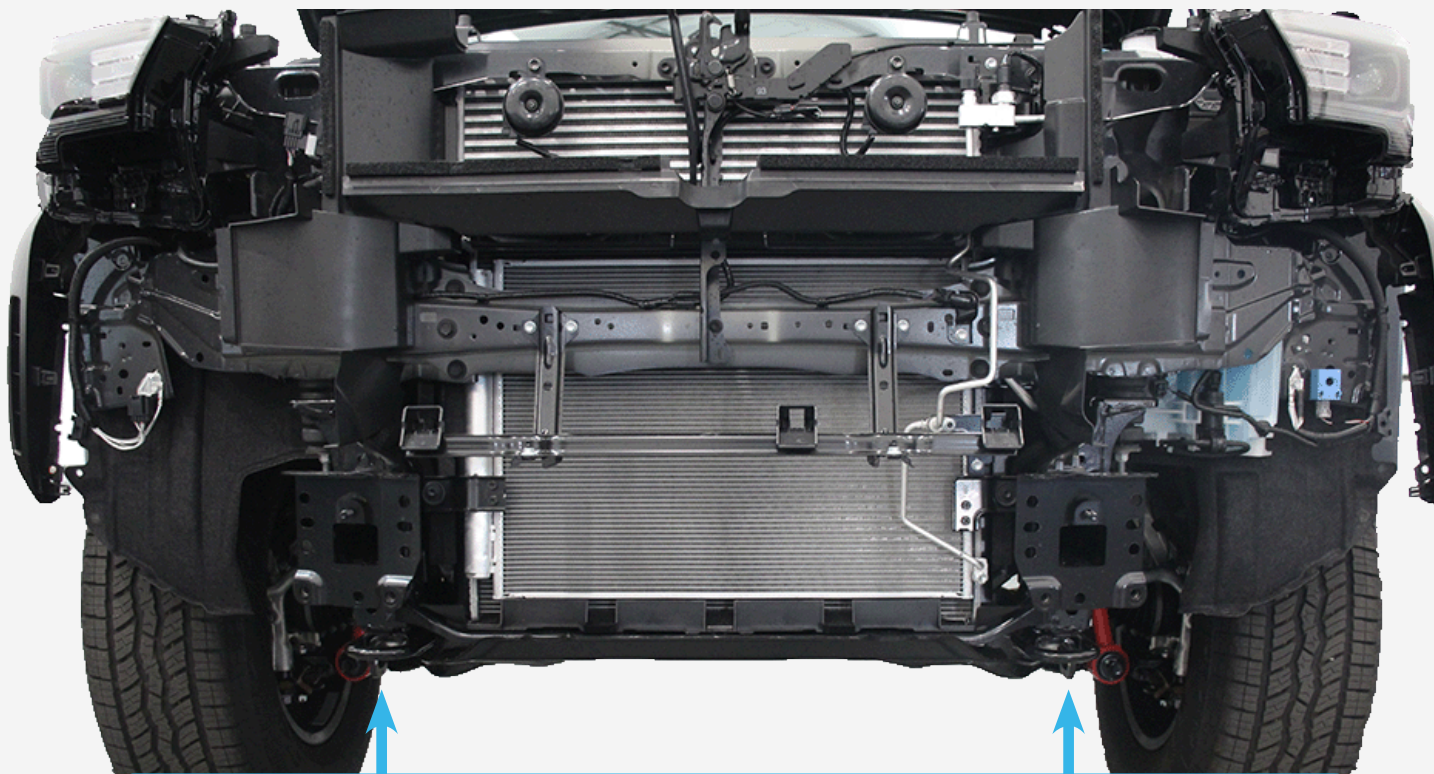
□ STEP 13

Using a (flat head screwdriver), remove the 6x push pins holding the lower shroud located on the inside of the frame rails in front of the intercooler.



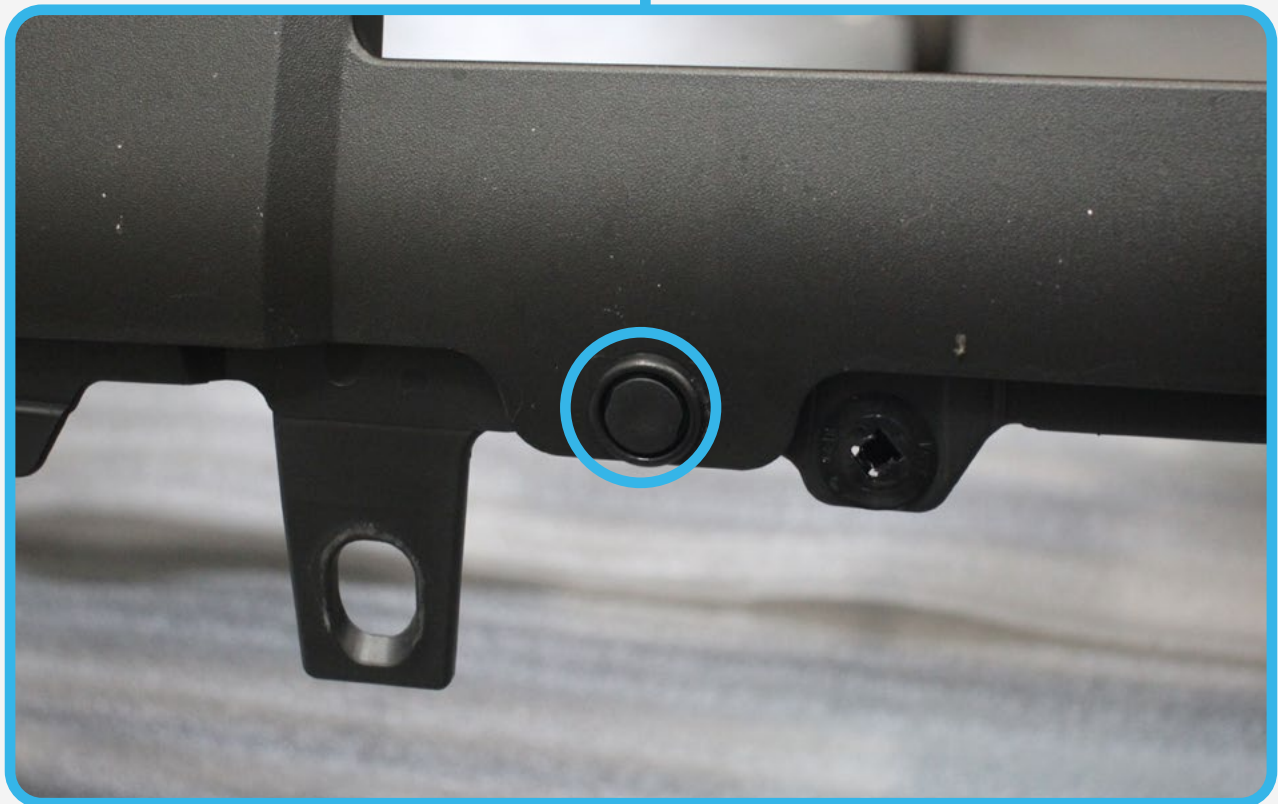
□ STEP 14

Using a (17mm socket), Remove the tow hooks as shown below.



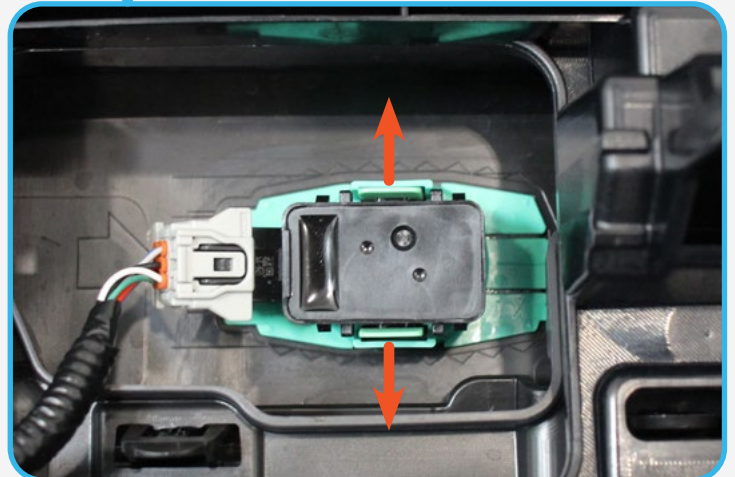
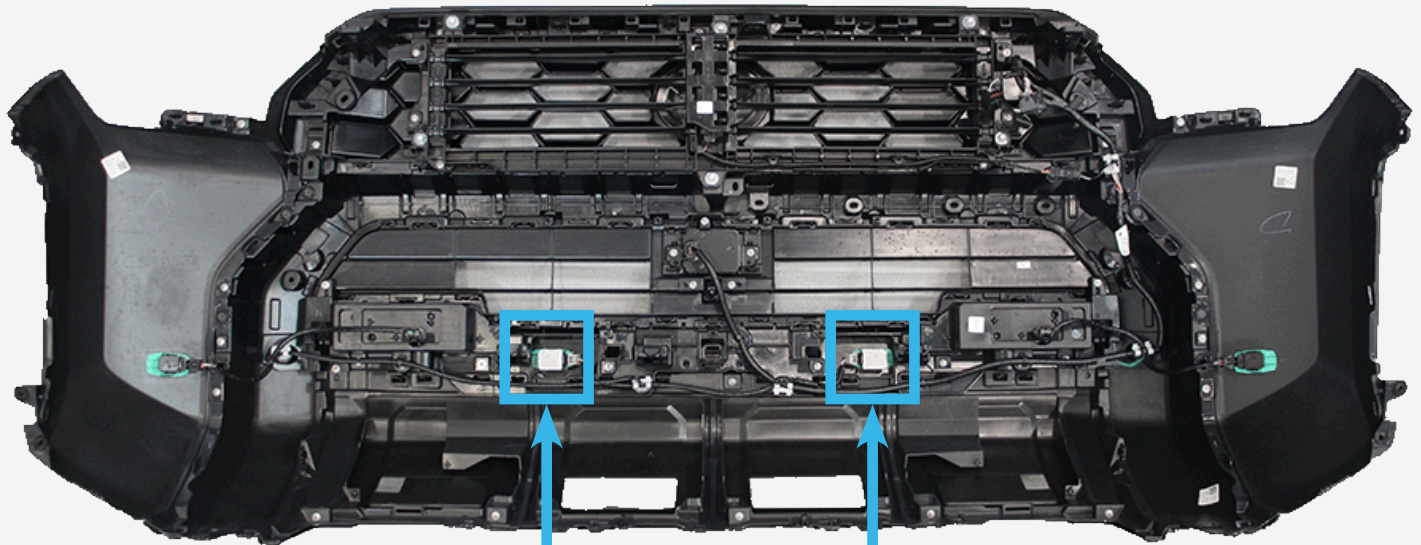
□ STEP 15

Using a (philips head screwdriver), remove the 4x screws holding the center section and pull to release clips holding the center plastic on the front side of the bumper off.



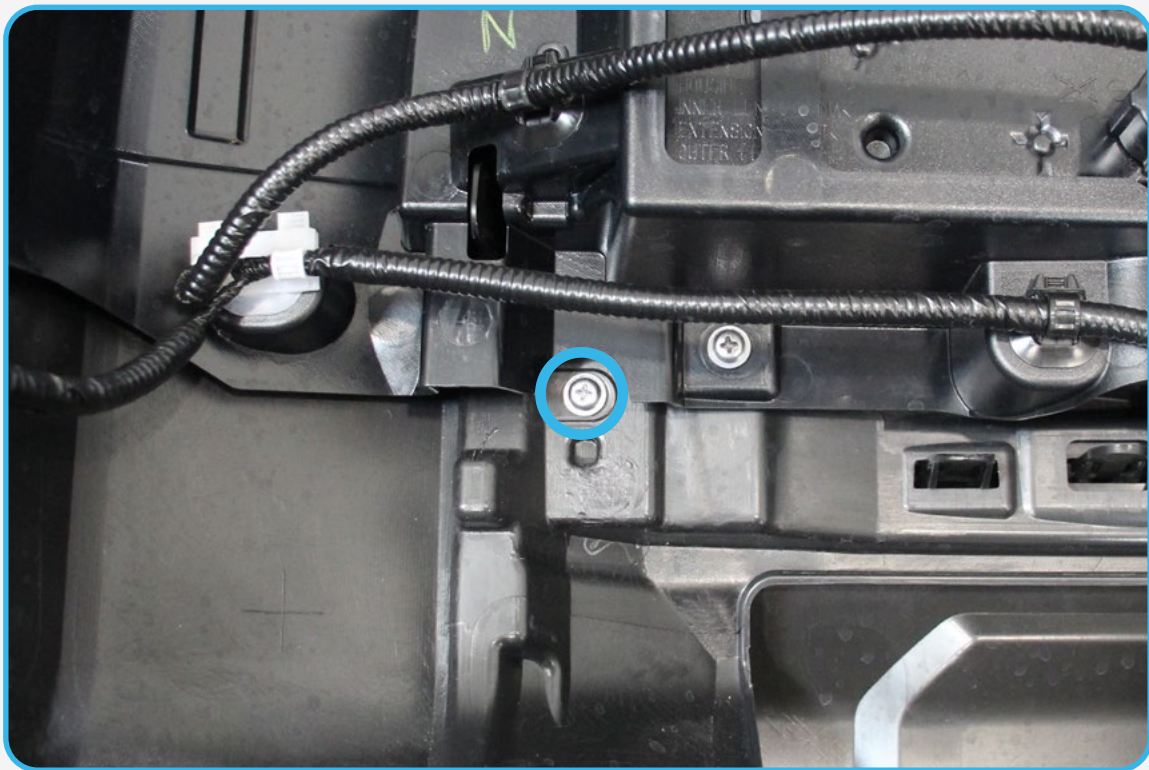
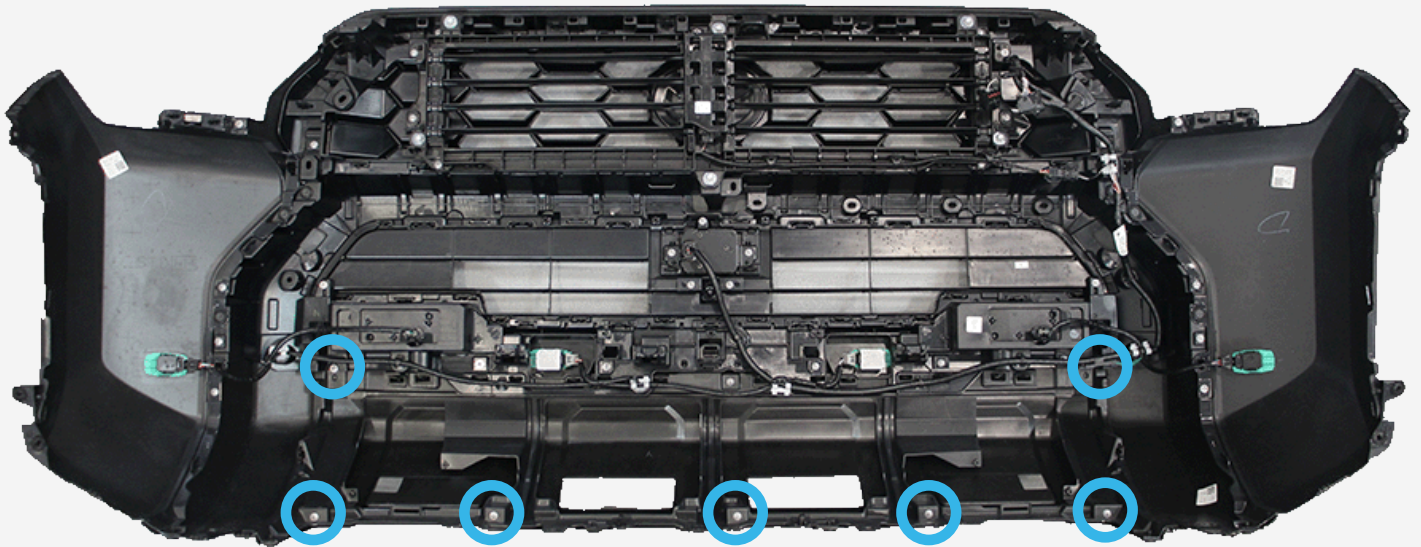
□ STEP 16

Remove the sensor cover by squeezing the tabs as shown below. Next, remove the sensor from the bezel by spreading the tabs as shown below. ****CAUTION tabs are fragile, pry gently****



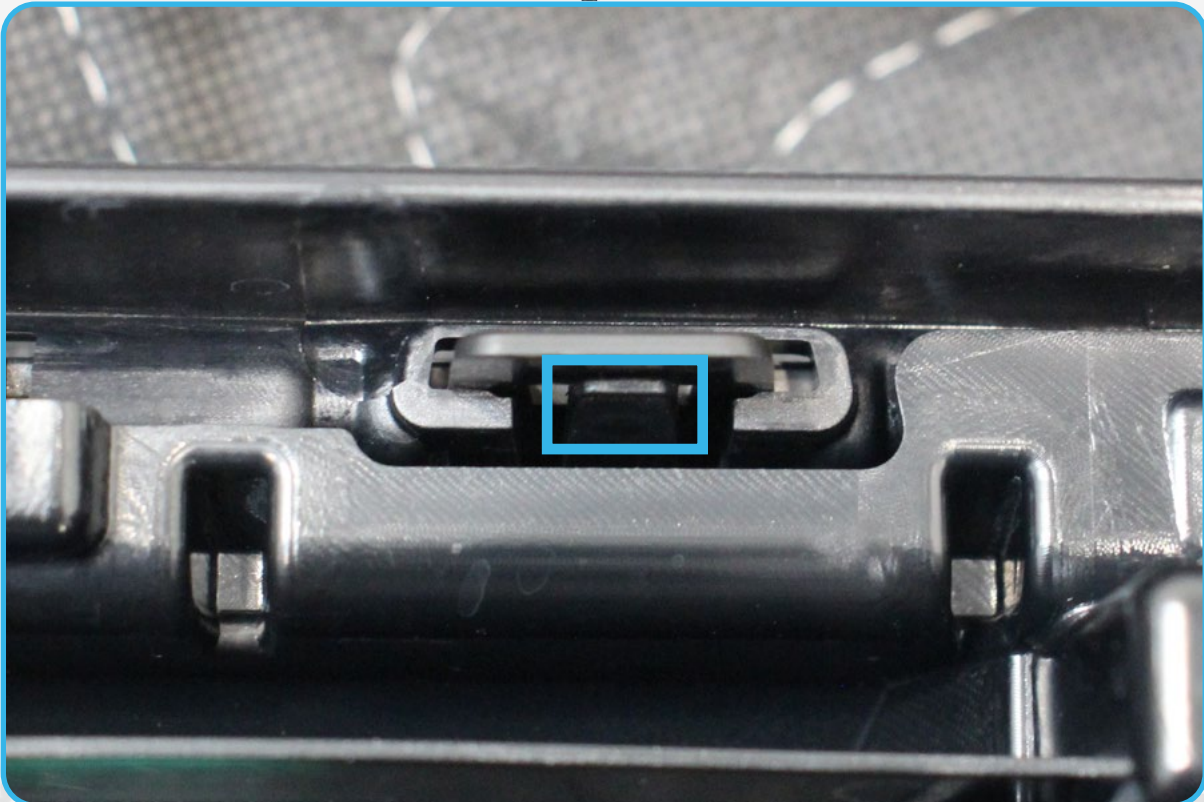
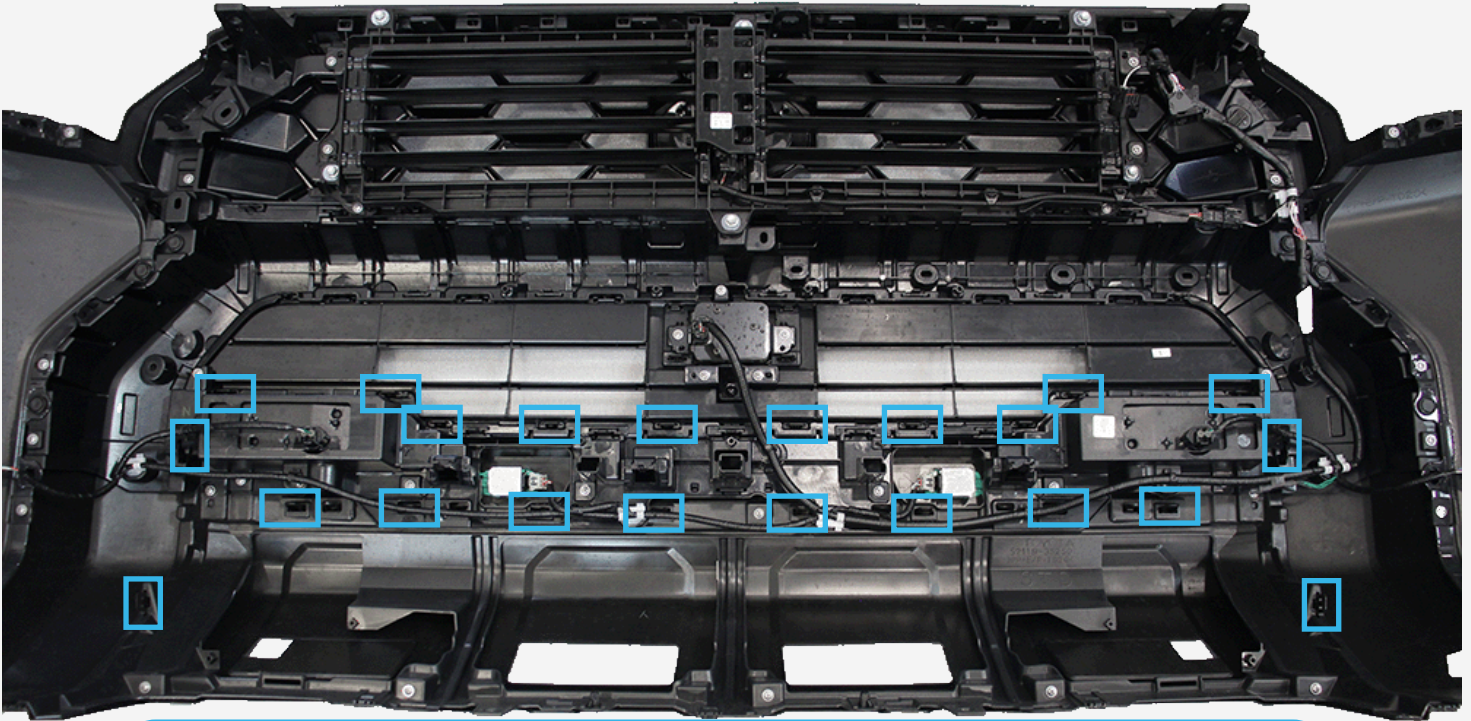
□ STEP 17

Using a (Philips-head screwdriver), Remove the 7x screw highlighted below.



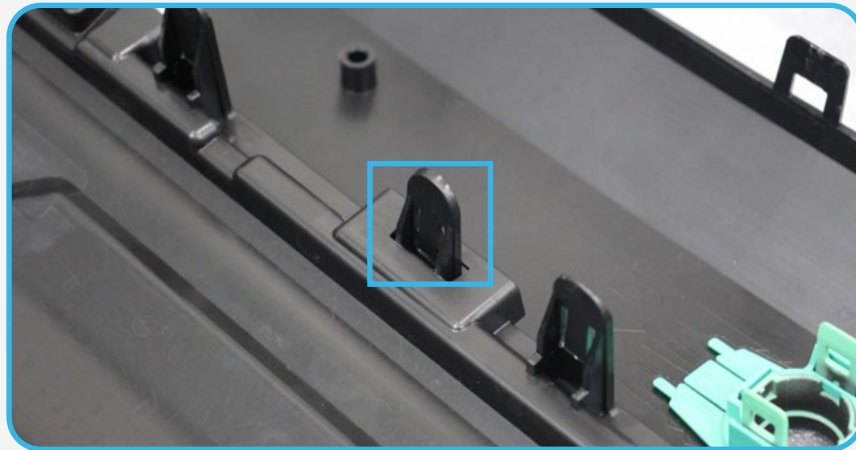
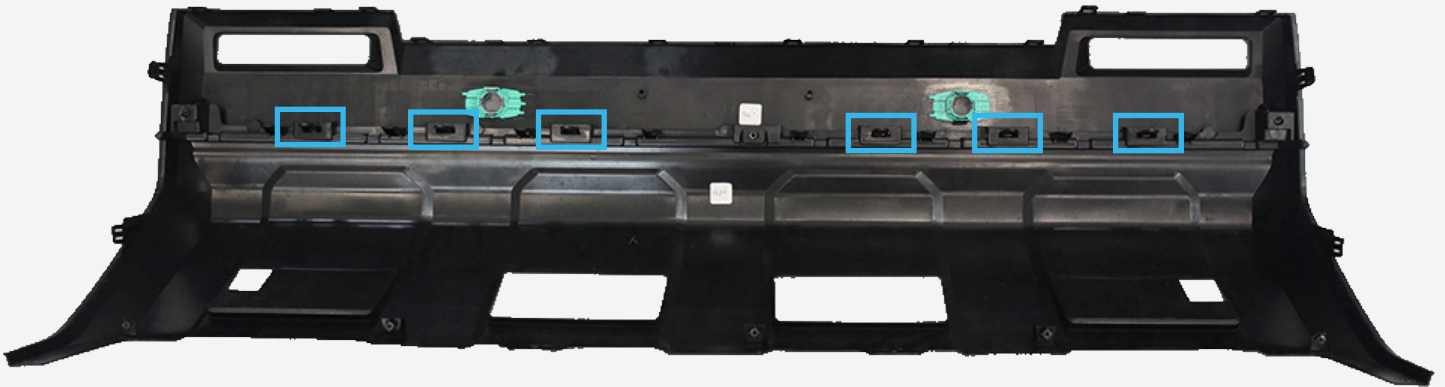
□ STEP 18

Using a (Flathead screwdriver), remove each highlighted retaining clip by gently prying. This may require a extra hand with someone pulling the plastic from the front face and the other removes the retaining clips.



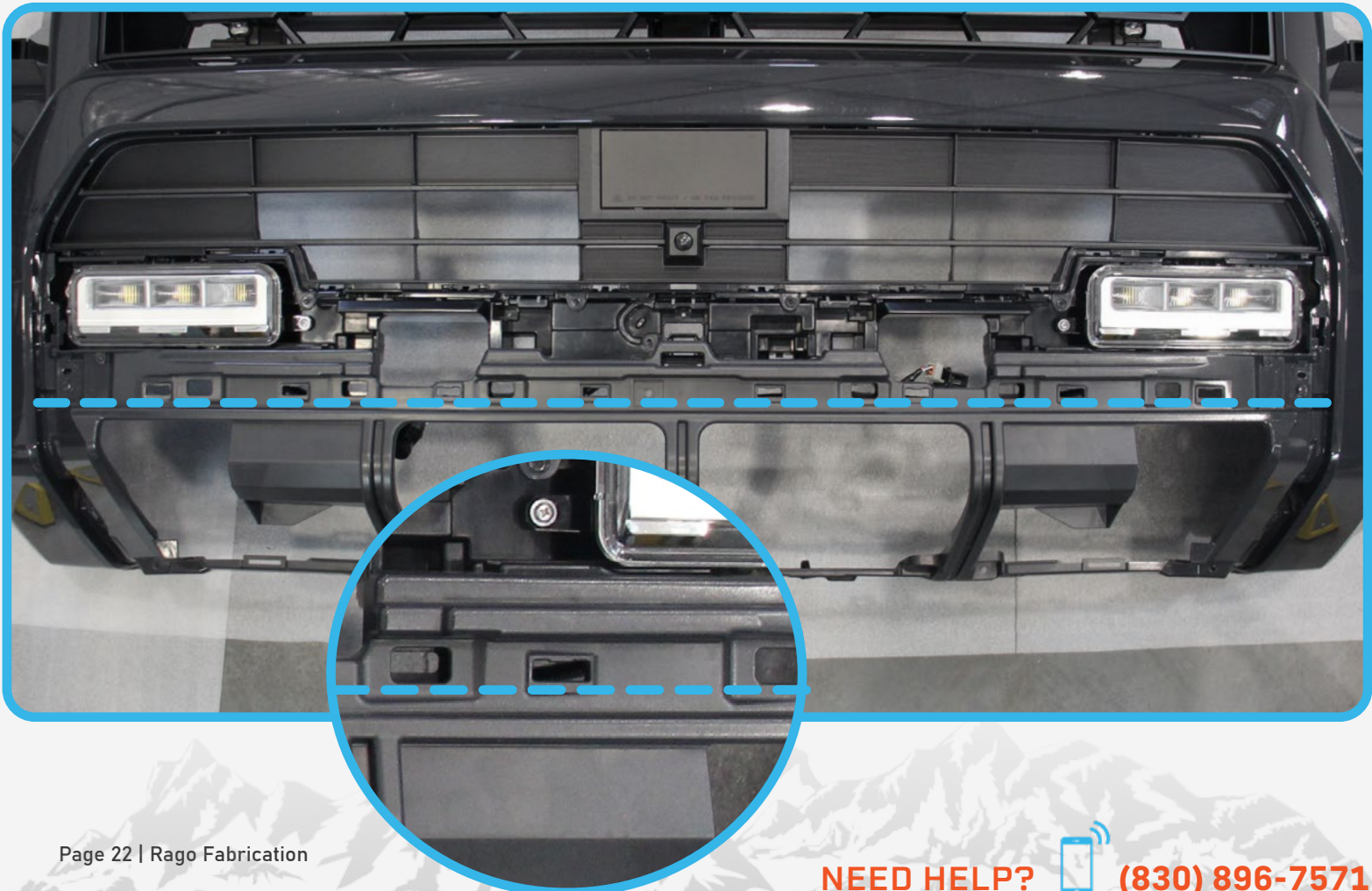
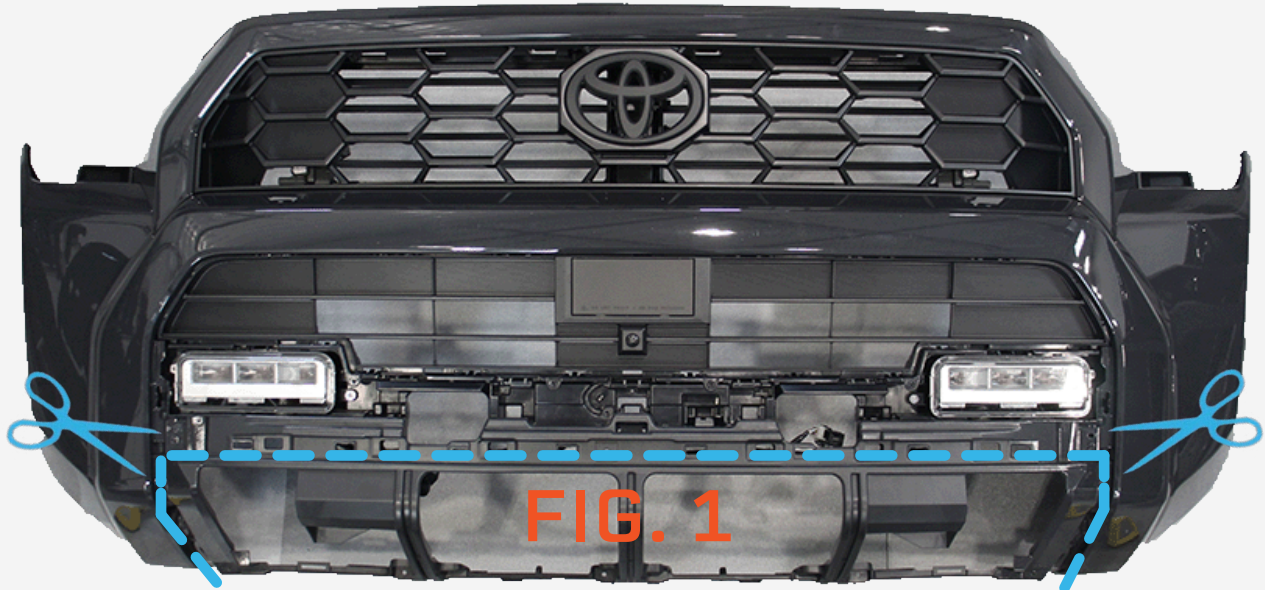
□ STEP 19

With the center plastic removed from the front assembly, use a (flathead screwdriver) and separate the two plastic covers. Set the cover with the sensor bezels aside for install.



□ STEP 20

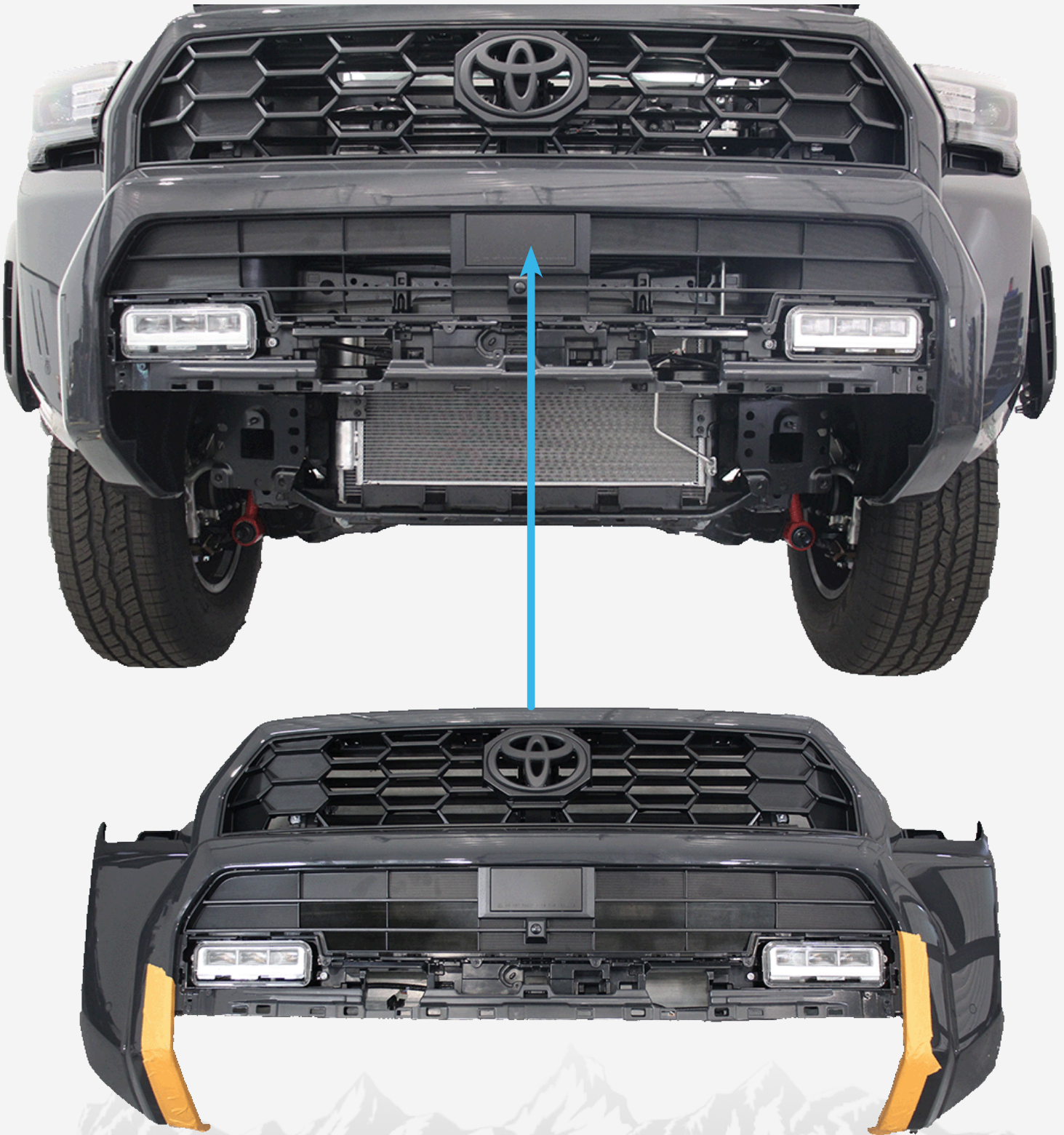
Using a (**jigsaw**) or your choice of cutting tools, cut along the edge as shown in **FIG. 1** and cutting underneath the OEM lights as shown below. You may need to fit the bumper to the truck to check if you need to trim more. ****Avoid the wiring harness while cutting****





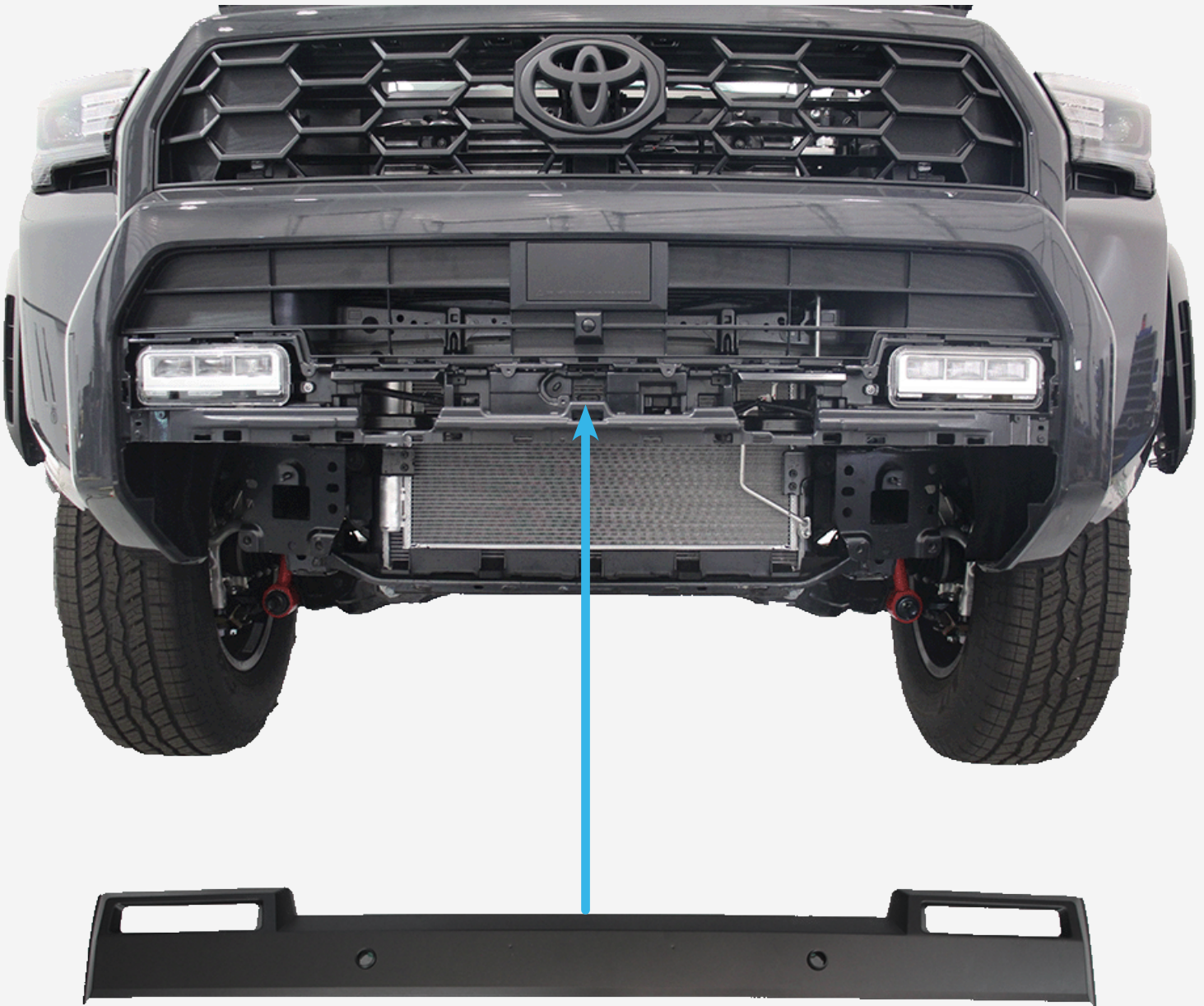
□ STEP 21

Install the grill and valence back onto the truck following **steps 10-4**.



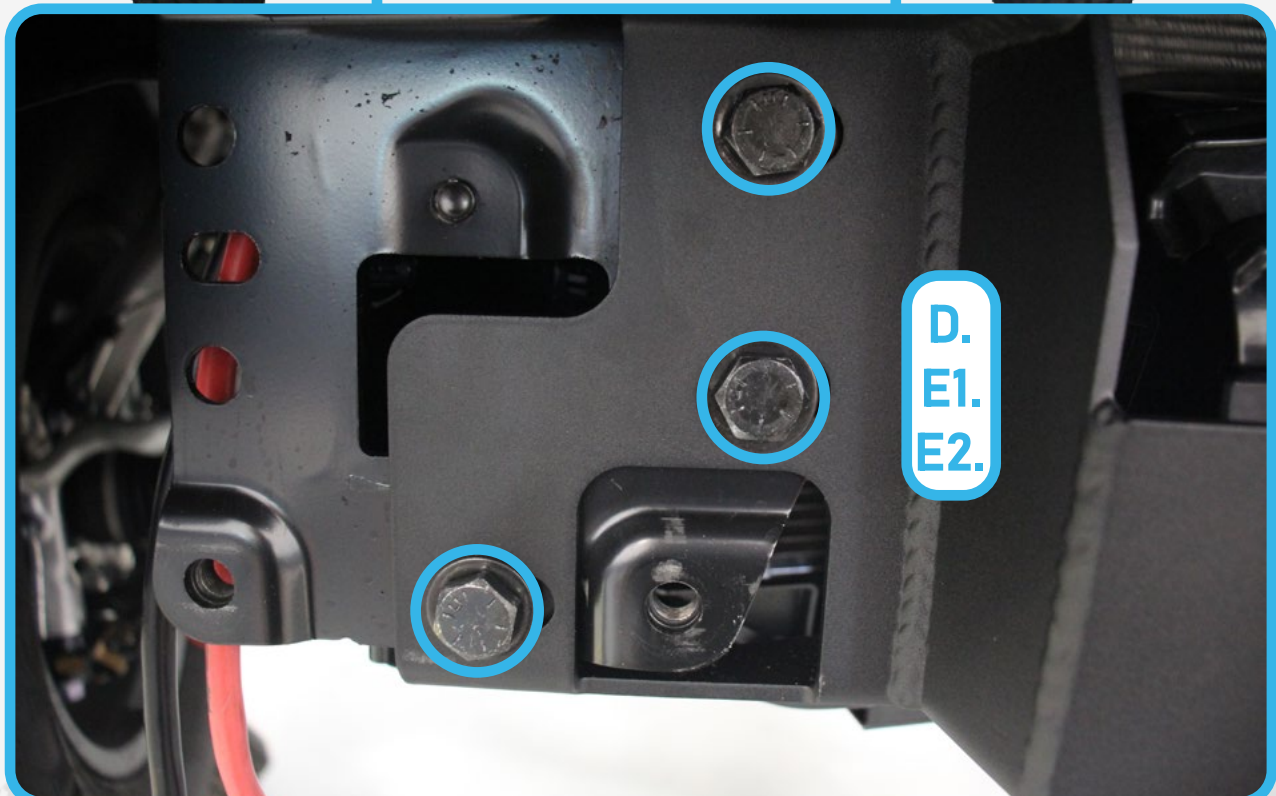
□ STEP 22

Re-install the plastic cover and plug in your sensor into the bezels from **step 16**.



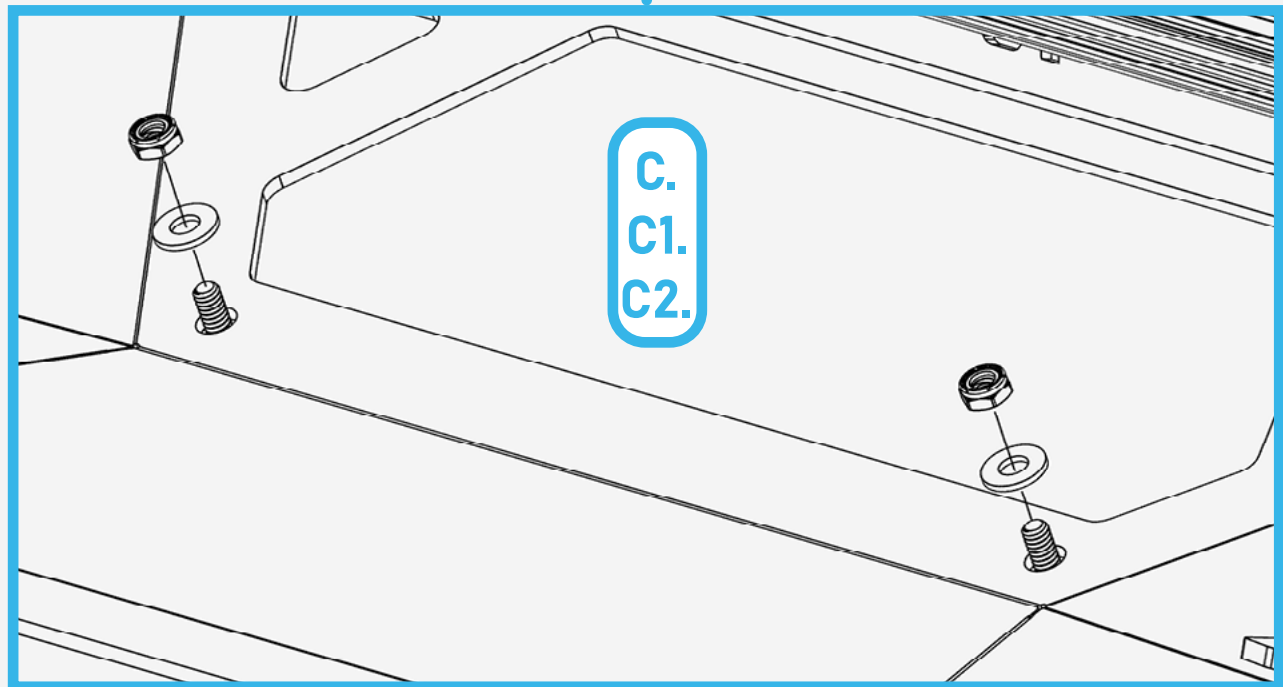
□ STEP 23

Carefully position the winch to not damage the intercooler. Install the winch mount with the provided (D, E1, E2) hardware using a (3/4 wrench) and a (3/4 socket). (INSTALL WINCH AND FAIRLEAD BEFORE MOUNTING TO THE TRUCK)



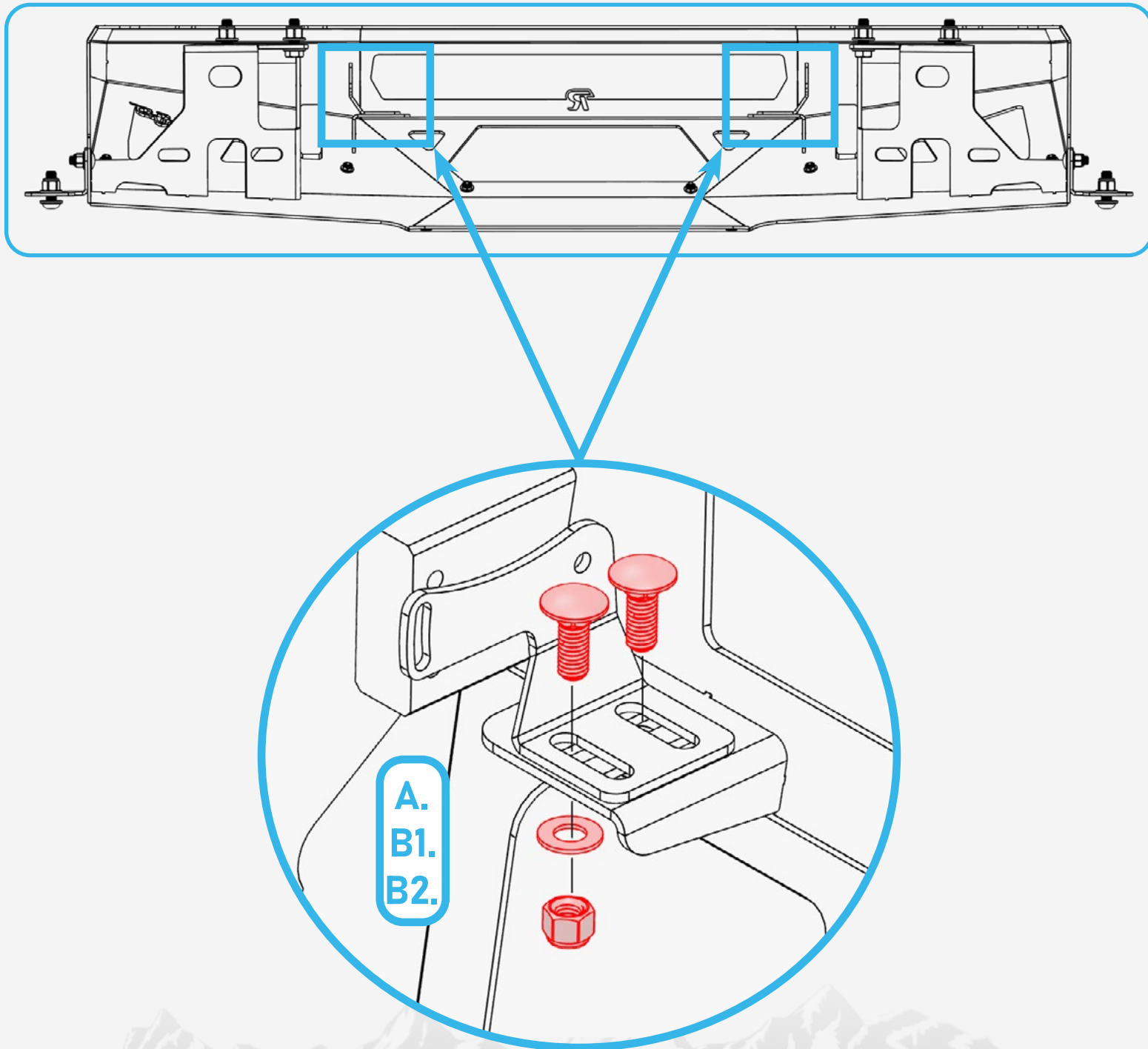
□ STEP 24

Install the provided (C, C1, C2) 3/8" hardware in the holes highlighted below using a (7/32 allen) and a (9/16 wrench).



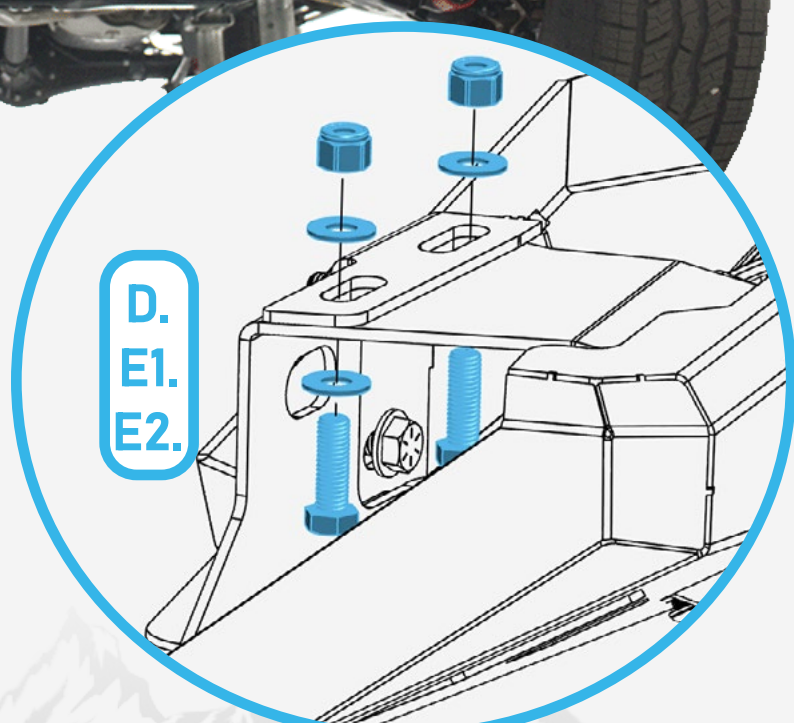
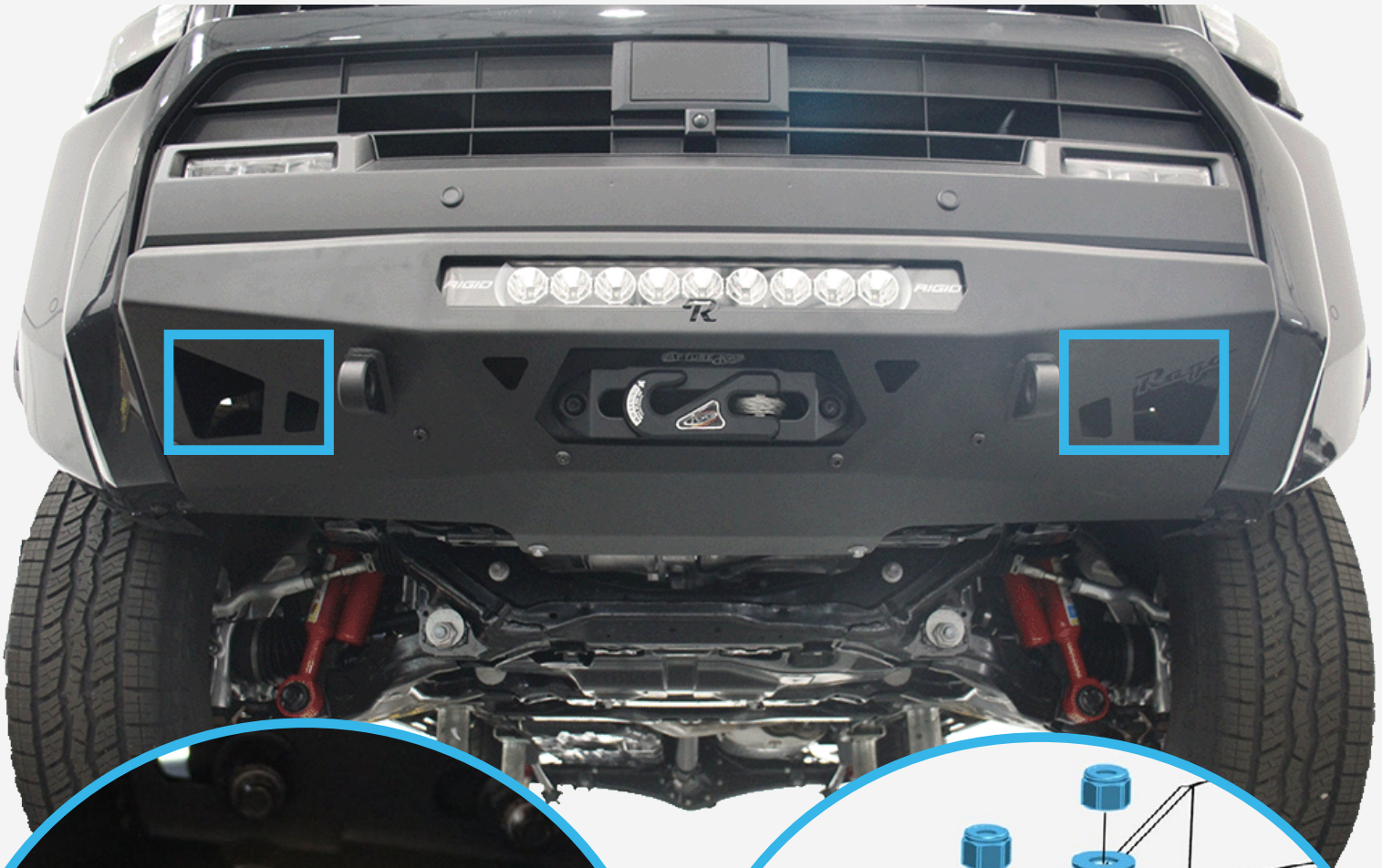
□ STEP 25

Now would be a good time to install your light options by installing the provided universal light brackets with (A, B1, B2) 3/8" hardware using a (9/16 wrench).



□ STEP 26

With a helping hand, you can now install the bumper using a (17mm socket) with the hardware removed from **step 11** and the provided (D, E1, E2) 1/2" hardware in the top mounting holes.

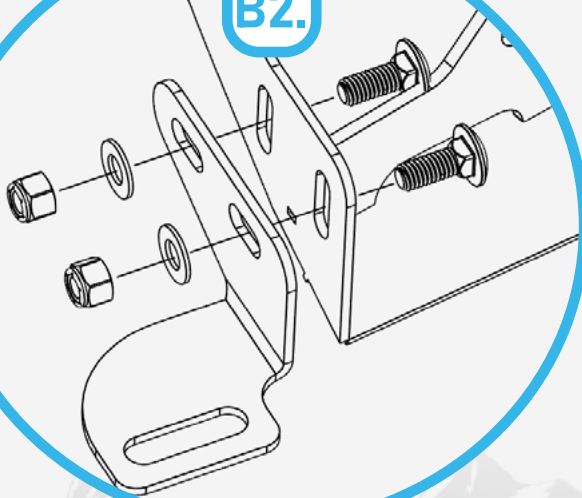


□ STEP 27

Install the valence support brackets with the provided (B, B1, B2) 3/8" hardware using a (9/16 wrench). Next install the provided (E, E1, E2) 1/2" hardware using a (5/16 allen) and a (3/4 wrench) into the holes from **step 4** as shown below. These brackets are used for support, but also for you to make adjustments on the plastic if it does not fit to your liking.



B.
B1.
B2.

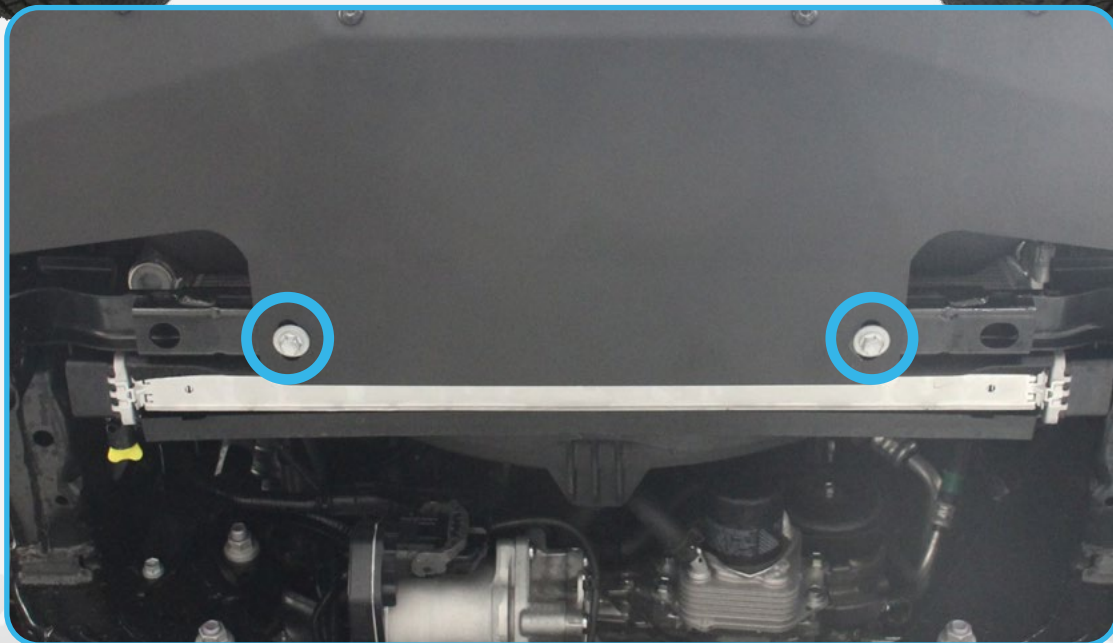


E.
E1.
E2.



□ STEP 28

Install the lower mounting hardware with the OEM hardware removed from **step 3** using a (12mm socket).



☐ STEP 29

Stand back and enjoy your new RAGO Center Mount Front Bumper.

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

