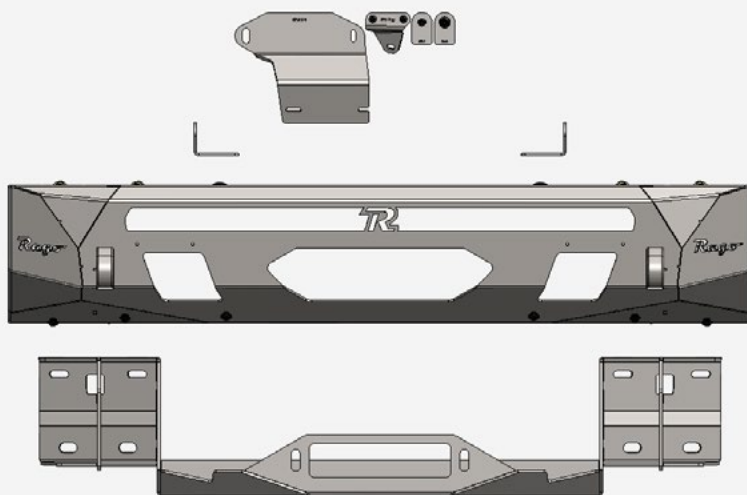


CENTER MOUNT FRONT BUMPER WITH WINCH

2022-UP/TOYOTA TUNDRA

F7603622001NA



TOOLS REQUIRED

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



SKILL LEVEL

- Medium



TIME REQUIRED

- Approximately 3.5 Hours (This installation guide covers the installation of the product only. It does not include instructions and time for wiring)

⚠ 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.



1/4-20 X 3/4" BUTTON HEAD BOLT

QTY: 3

A1.



1/4" FLAT WASHER

QTY: 3

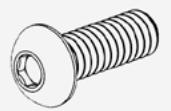
A2.



1/4-20" NYLON LOCK NUT

QTY: 3

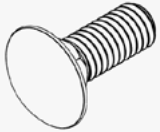
B.



3/8-16 X 1" BUTTON HEAD BOLT

QTY: 7

B1.



3/8-16 X 1" CARRIAGE BOLT

QTY: 8

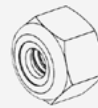
B2.



3/8 FLAT WASHER

QTY: 9

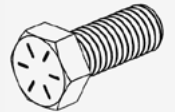
B3.



3/8-16" NYLON LOCK NUT

QTY: 9

C.



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

QTY: 4

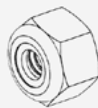
C1.



3/8" FLAT WASHER YELLOW

QTY: 8

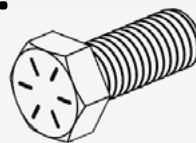
C2.



3/8-16" NYLON LOCK NUT YELLOW

QTY: 4

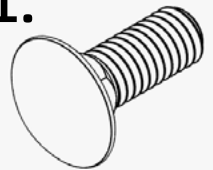
D.



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

QTY: 4

D1.



1/2-13 X 1 1/2" CARRIAGE BOLT

QTY: 6

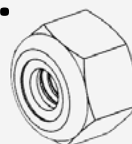
D2.



1/2" FLAT WASHER

QTY: 14

D3.



1/2-13" NYLON LOCK NUT

QTY: 10



PARTS

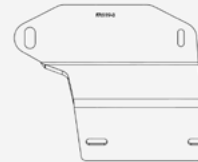
E.



UUS0089

QTY: 6

F.



SSF1008B

QTY: 1

G.



SSF1011

QTY: 1

H.



SSF1010

QTY: 1

I.



SSF1009

QTY: 1

J.



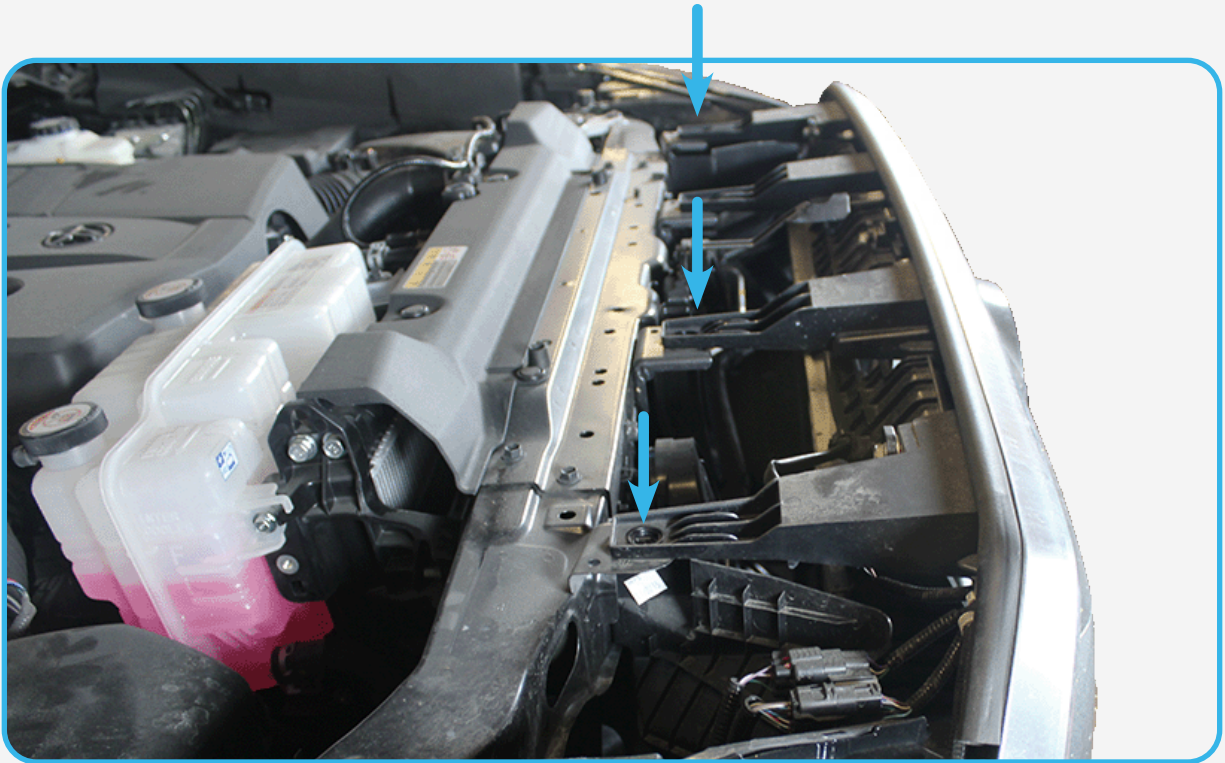
SPL0726, SPL0726-M

QTY: 4



□ STEP 1

Remove the 4x bolts on top of the grill using a (10mm socket).



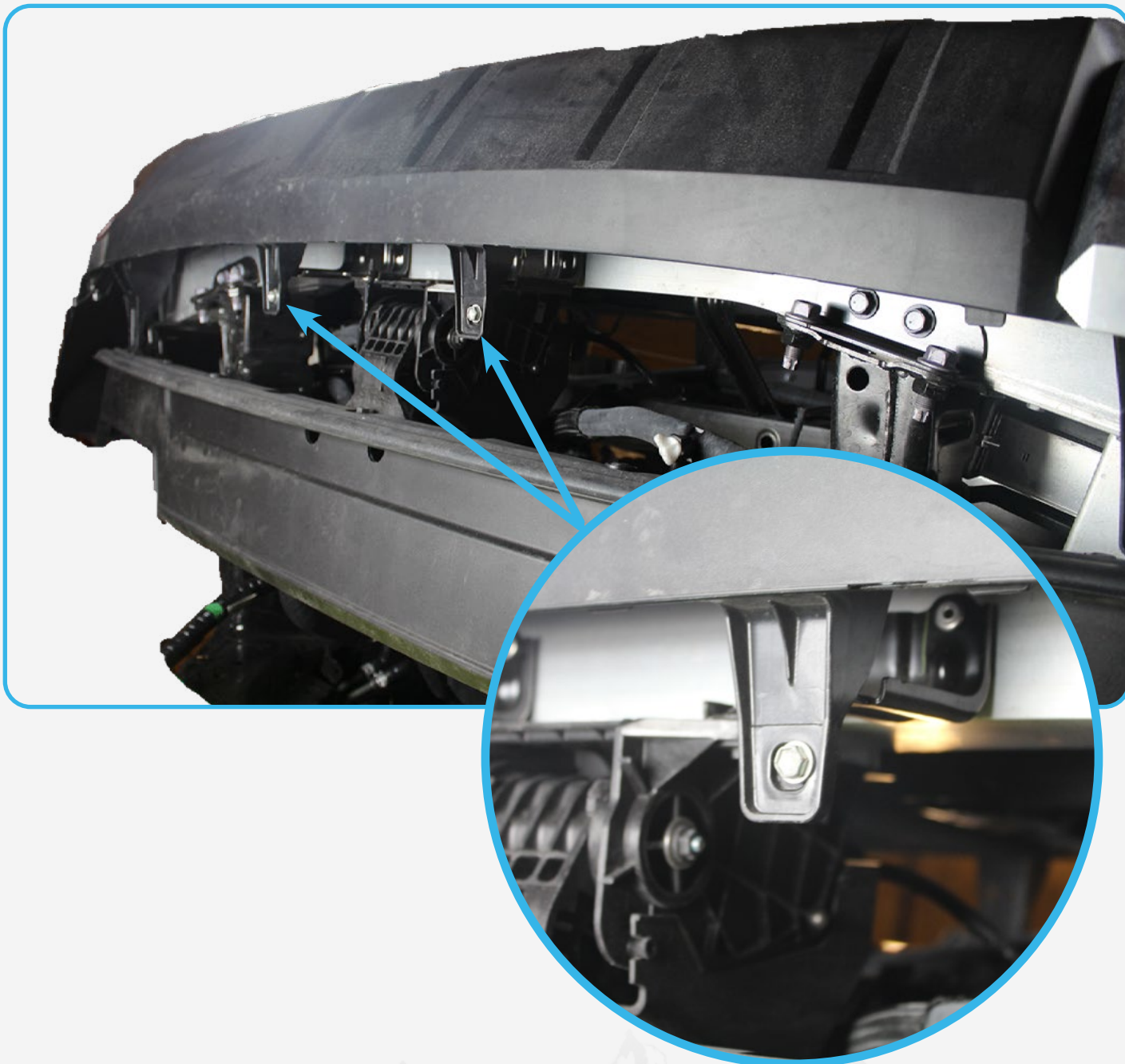
□ STEP 2

Unplug the 3x wiring harness plugs.



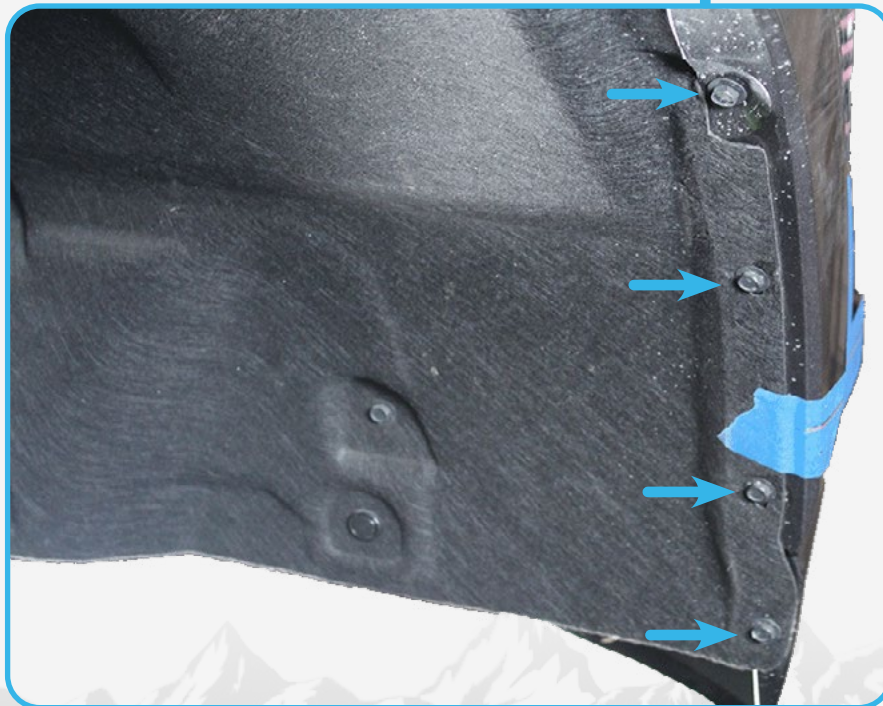
□ STEP 3

Remove the 2x support mount bolts from underneath the bumper using a (10mm socket).



□ STEP 4

Inside the wheel well, remove the 4x bolts holding the trim by using a (10mm socket). After, pop both trim and grill off by pulling towards you. You can now remove the grill.





☐ STEP 5

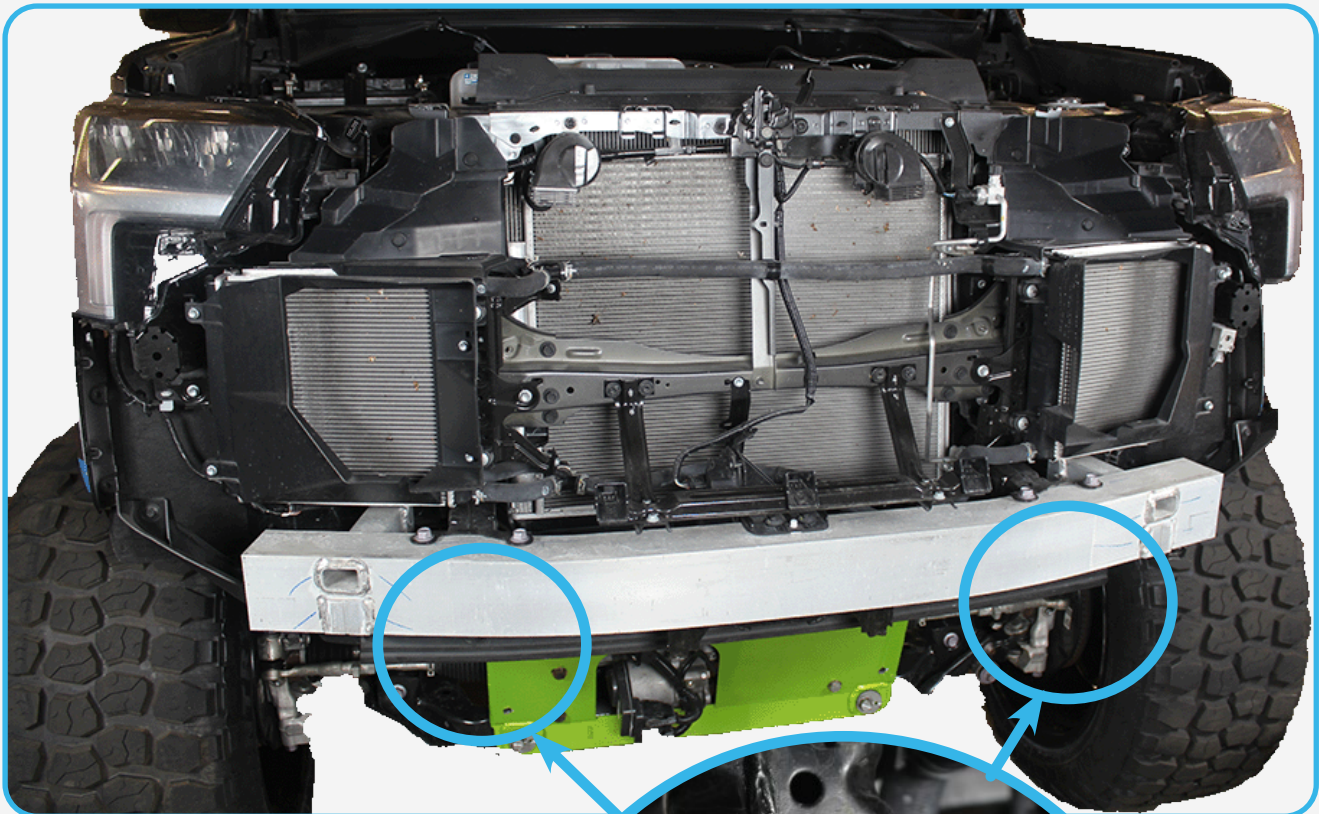
Unplug the air dam motor by depressing and pulling.



□ STEP 6

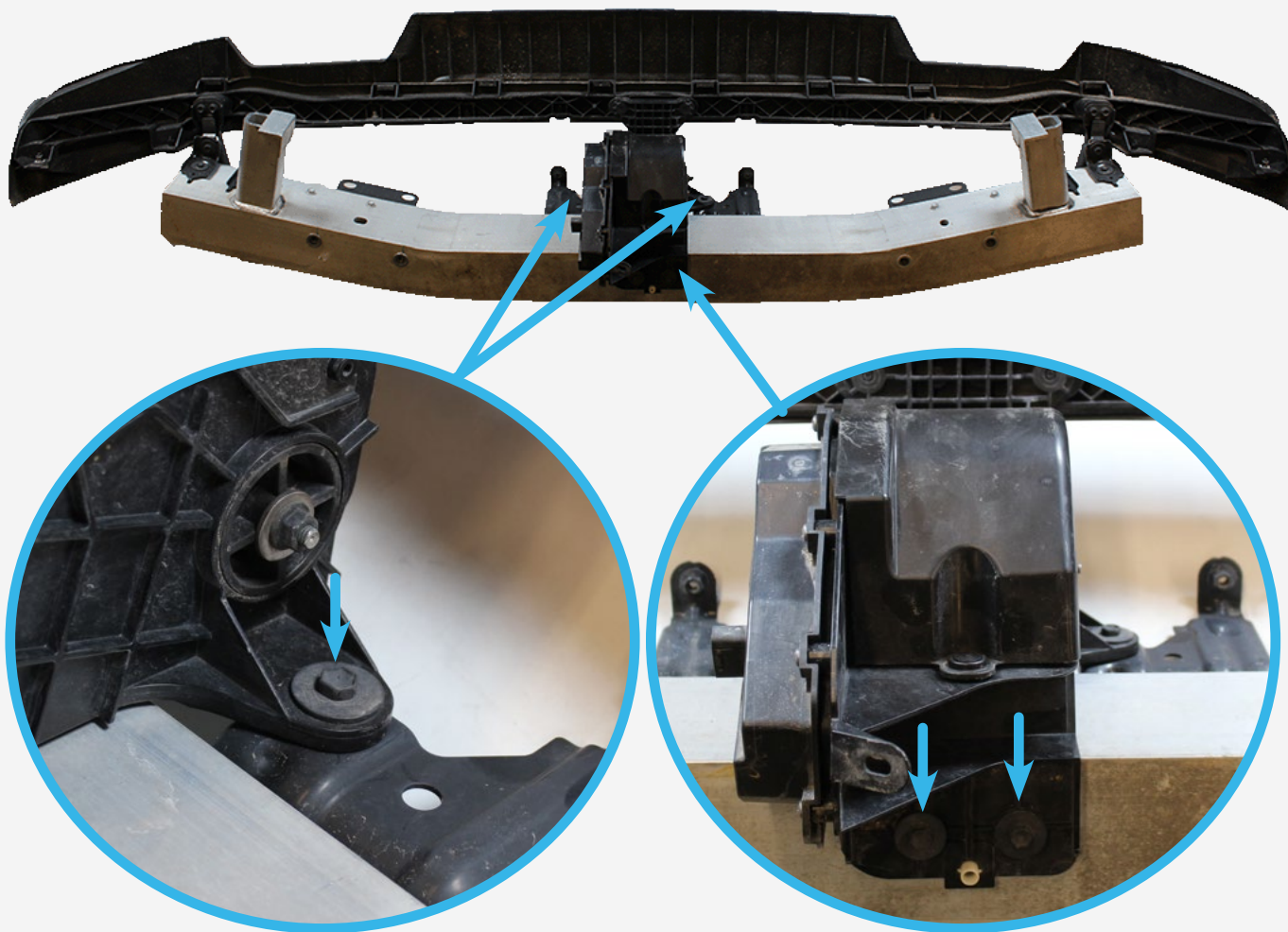
Remove the 4x aluminum crash bar bolts on top and bottom by using a (17mm socket).





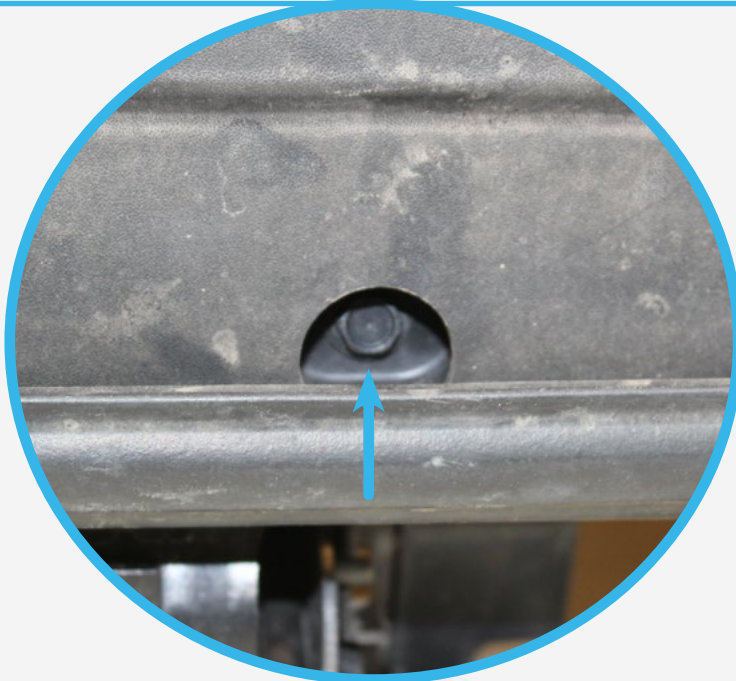
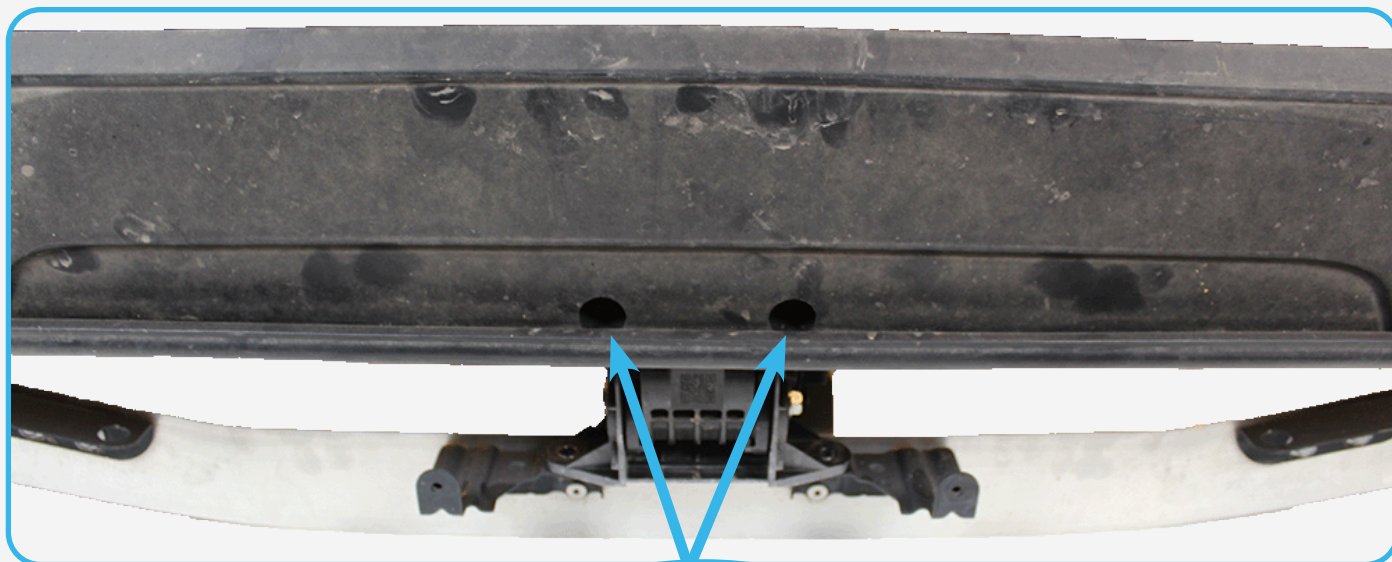
□ STEP 7

Remove the air dam motor by using a (10mm socket). Remove the 6x bolts shown below.



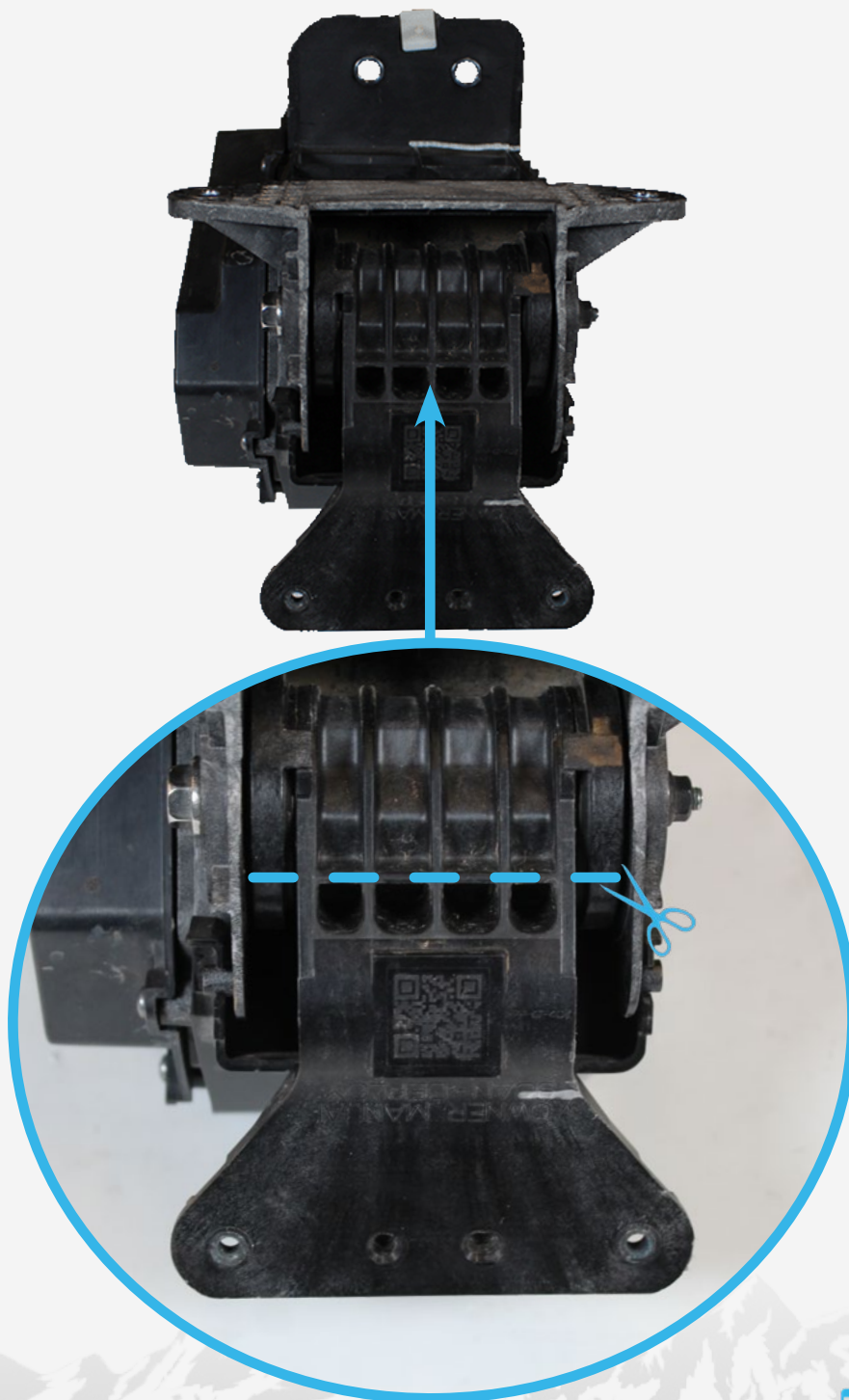
□ STEP 8

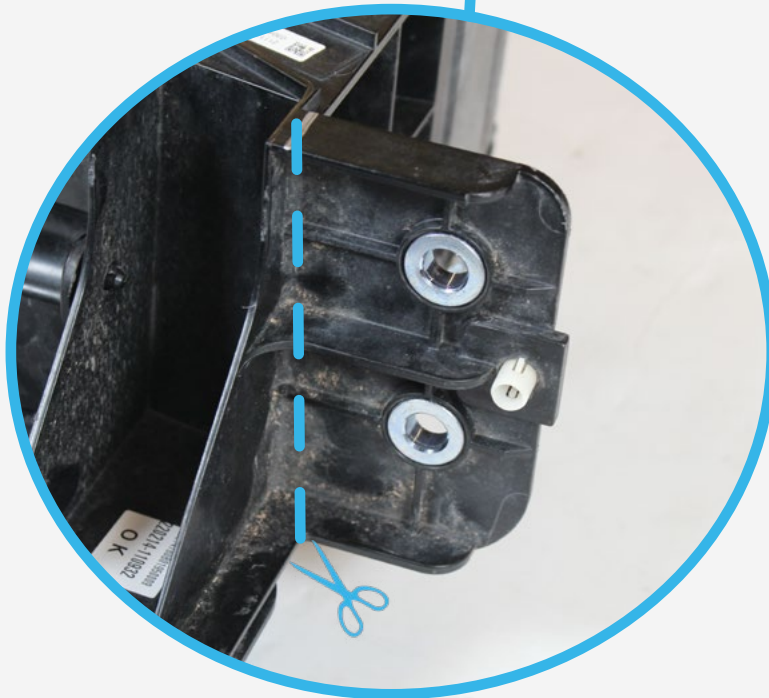
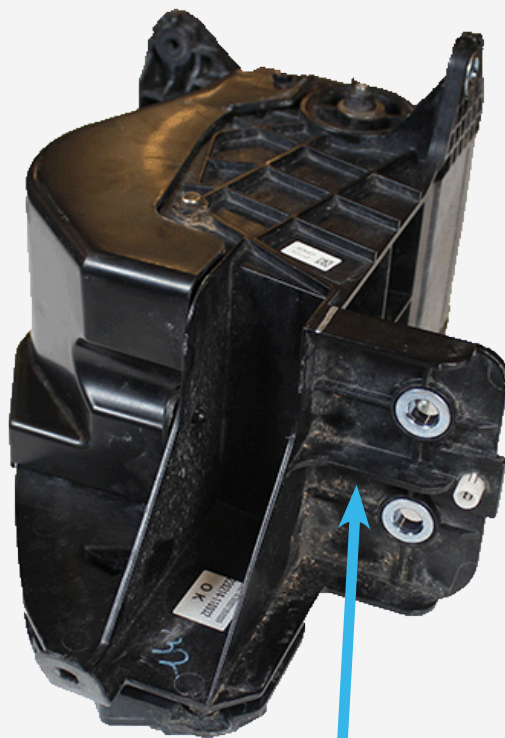
Flip the air dam over and remove the 2x bolts from the bottom as shown below using a (10mm socket).



□ STEP 9

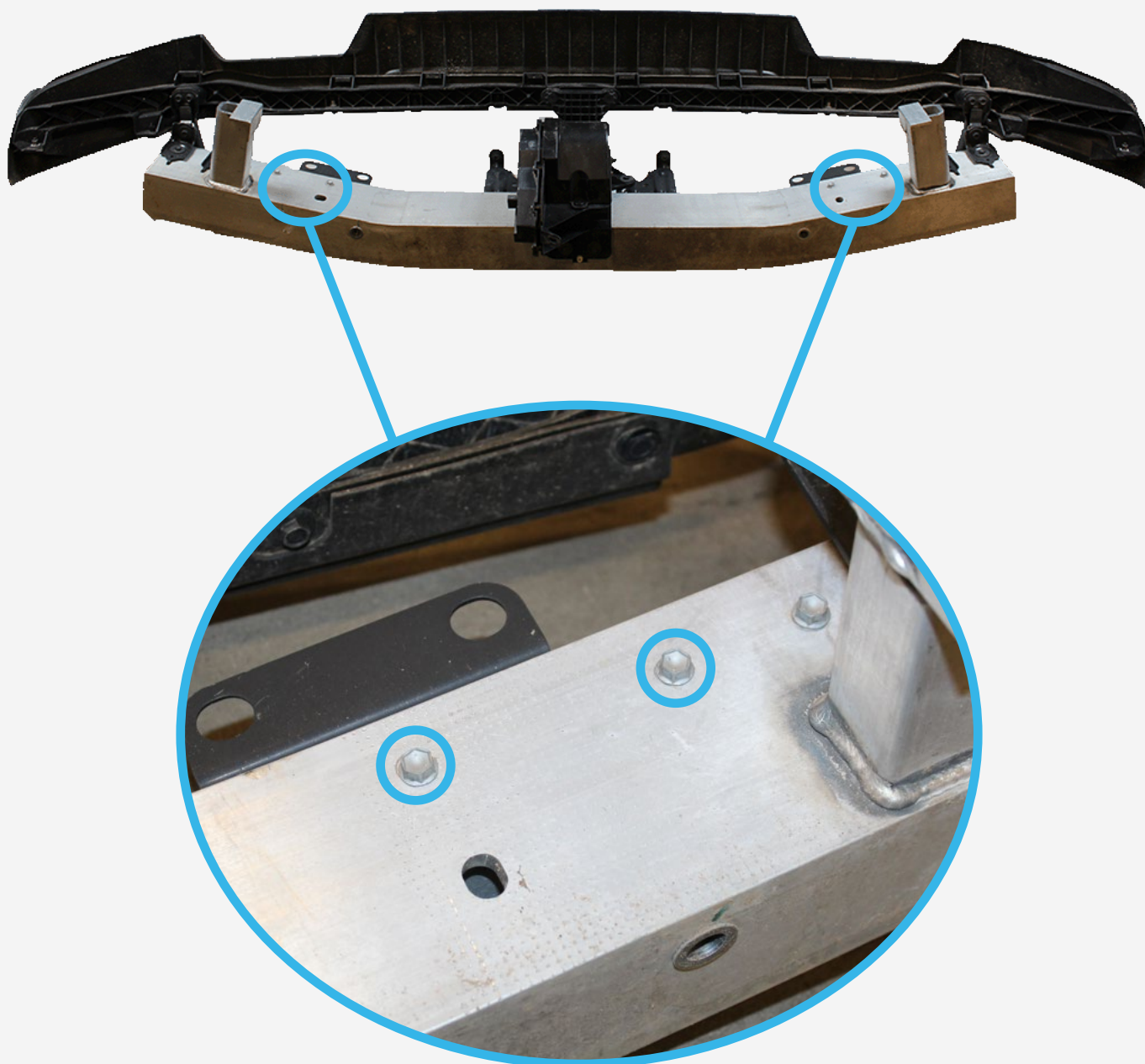
After the air dam motor has been removed, cut along the lines as shown below with your choice of cutting tools. ****It is important to cut on the dotted line for clearance****





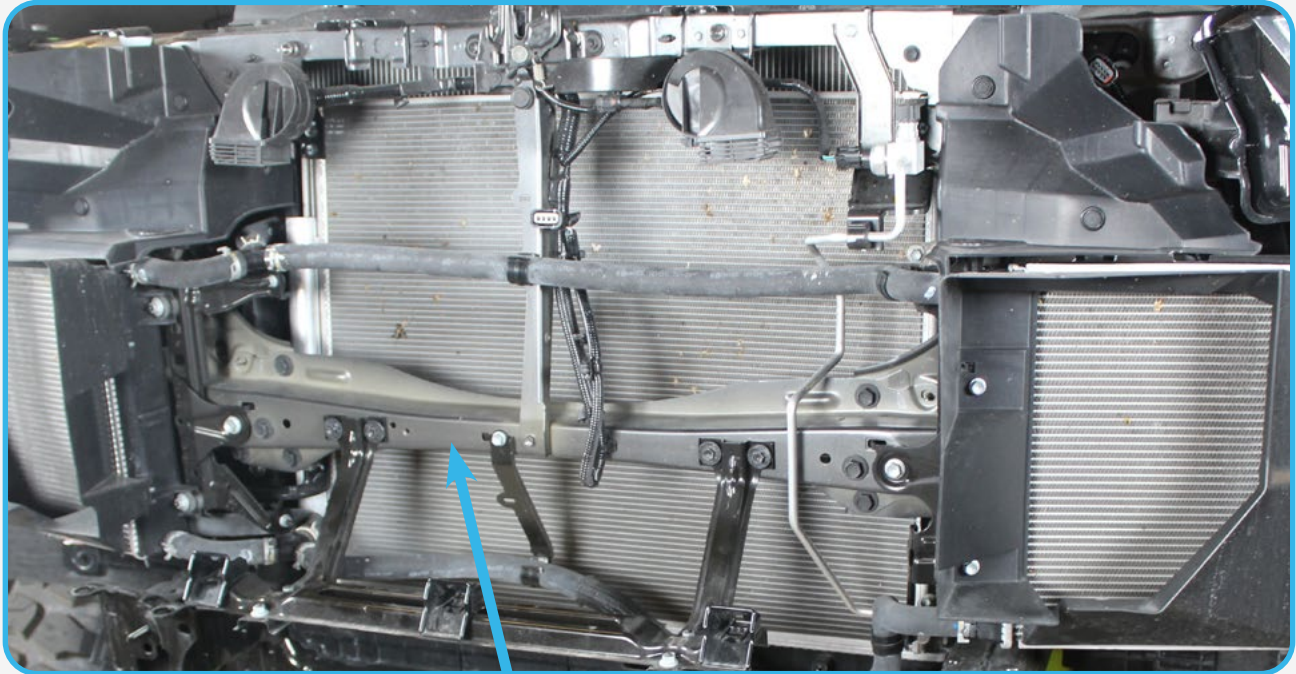
□ STEP 10

Remove one out of the four stock bolts shown below using a (10mm socket).



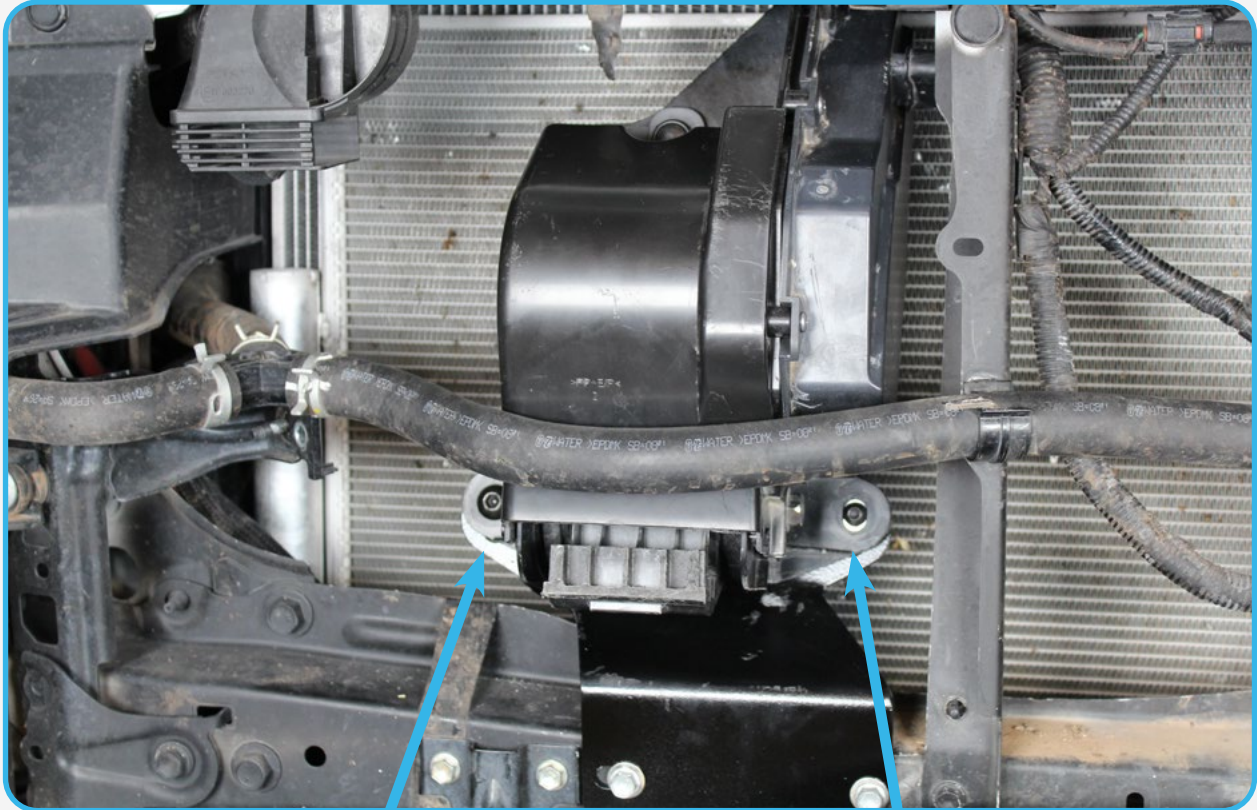
□ STEP 11

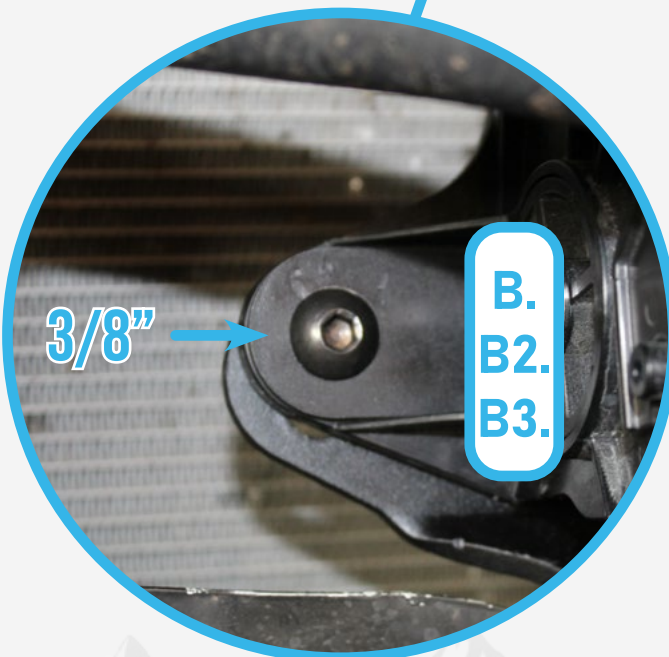
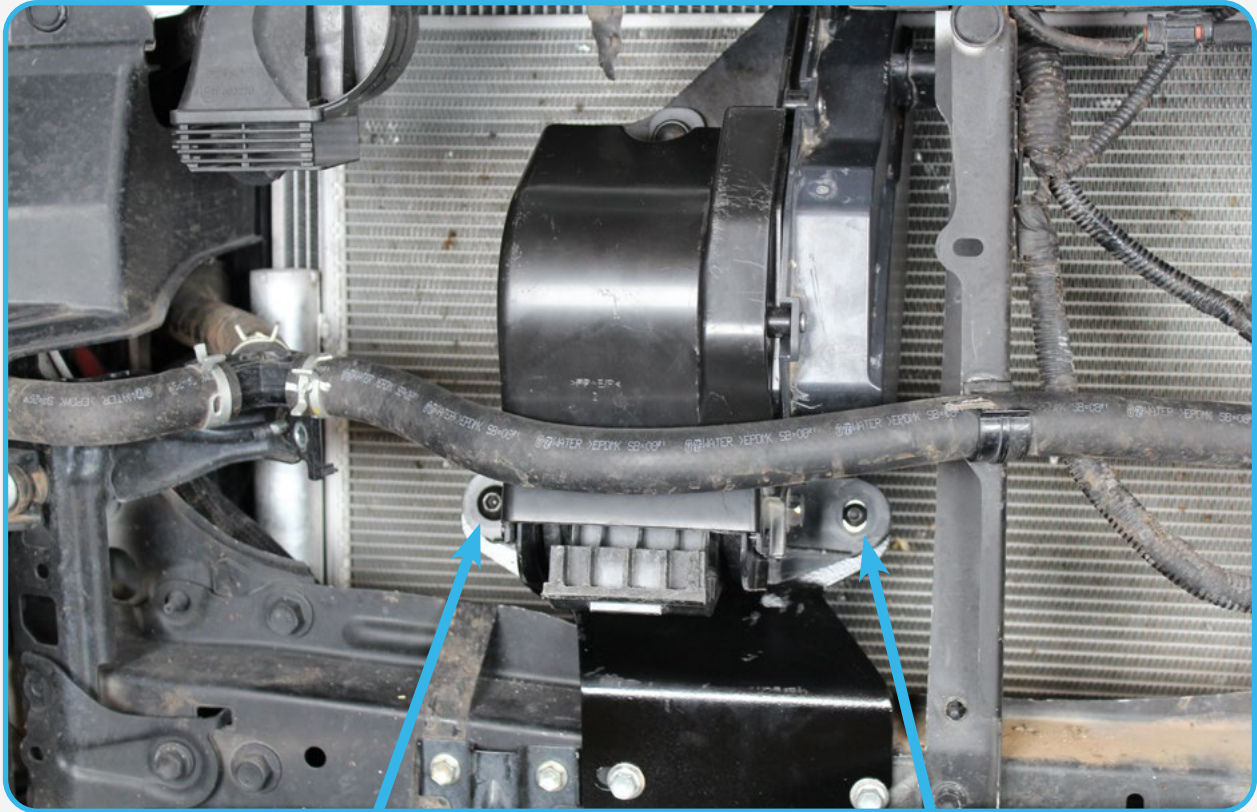
Using the stock bolt taken from **step 10**, install the air dam motor bracket in the existing threaded holes shown below using a **(10mm socket)**.



□ STEP 12

Install the air dam motor using the provided (I, H) washers, and (B, B2, B3) 3/8" hardware using a (7/32 allen) and a (9/16 wrench). And the provided (A, A1, A2) 1/4" hardware using a (5/32 allen) and a (7/16 wrench).





□ STEP 13

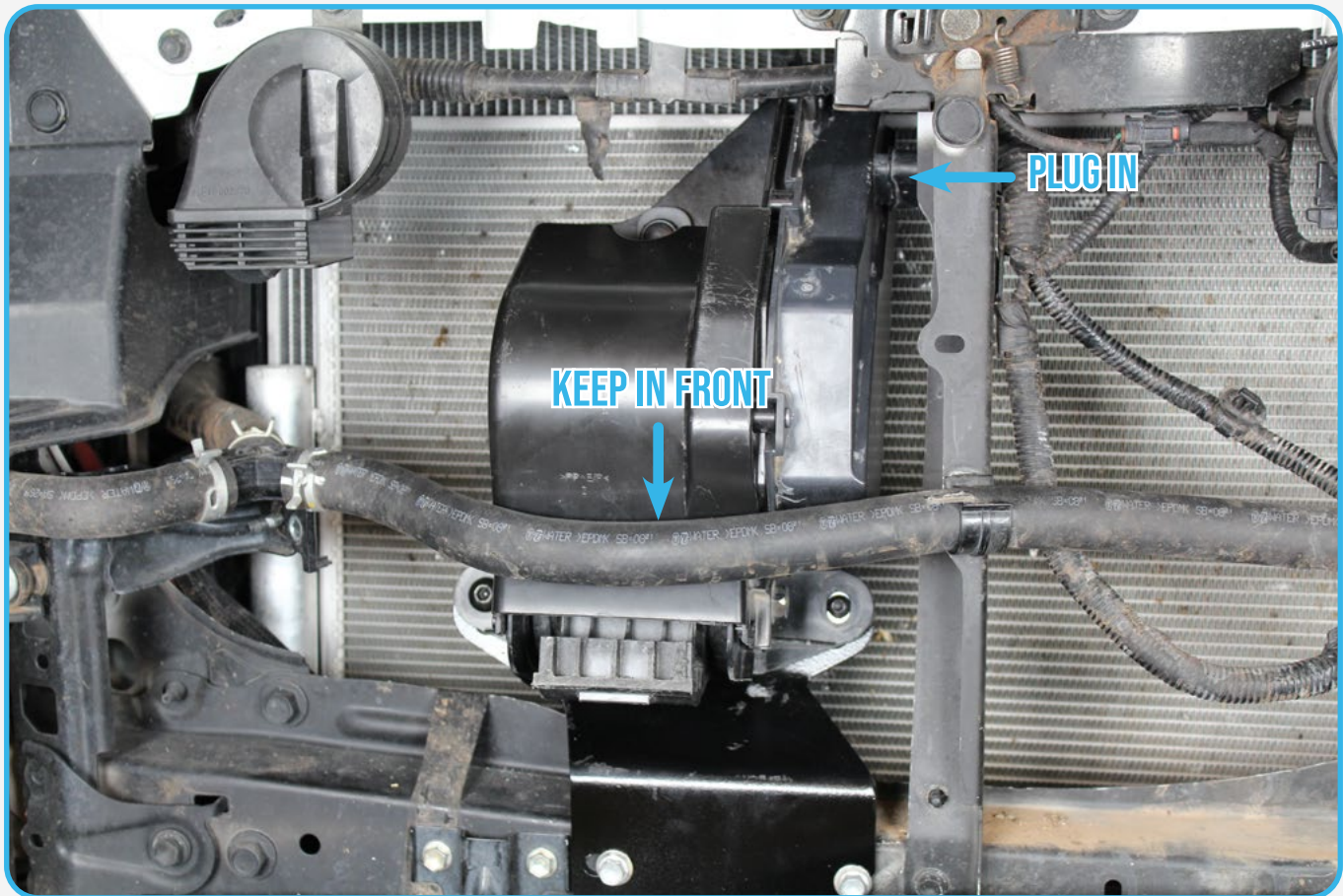
Install the air dam motor top bracket to the top rail and the air dam motor as shown on **page 21** using the provided **(A, A1, A2)** 1/4" hardware using a **(5/32 allen)** and a **(7/16 wrench)**.





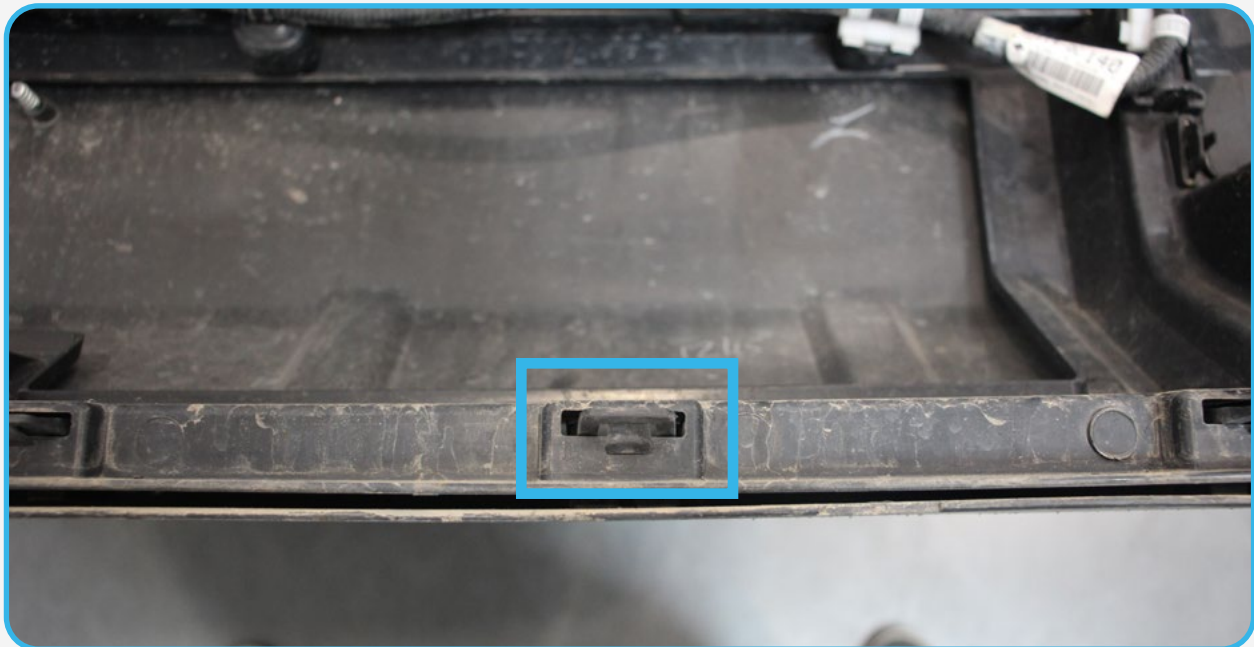
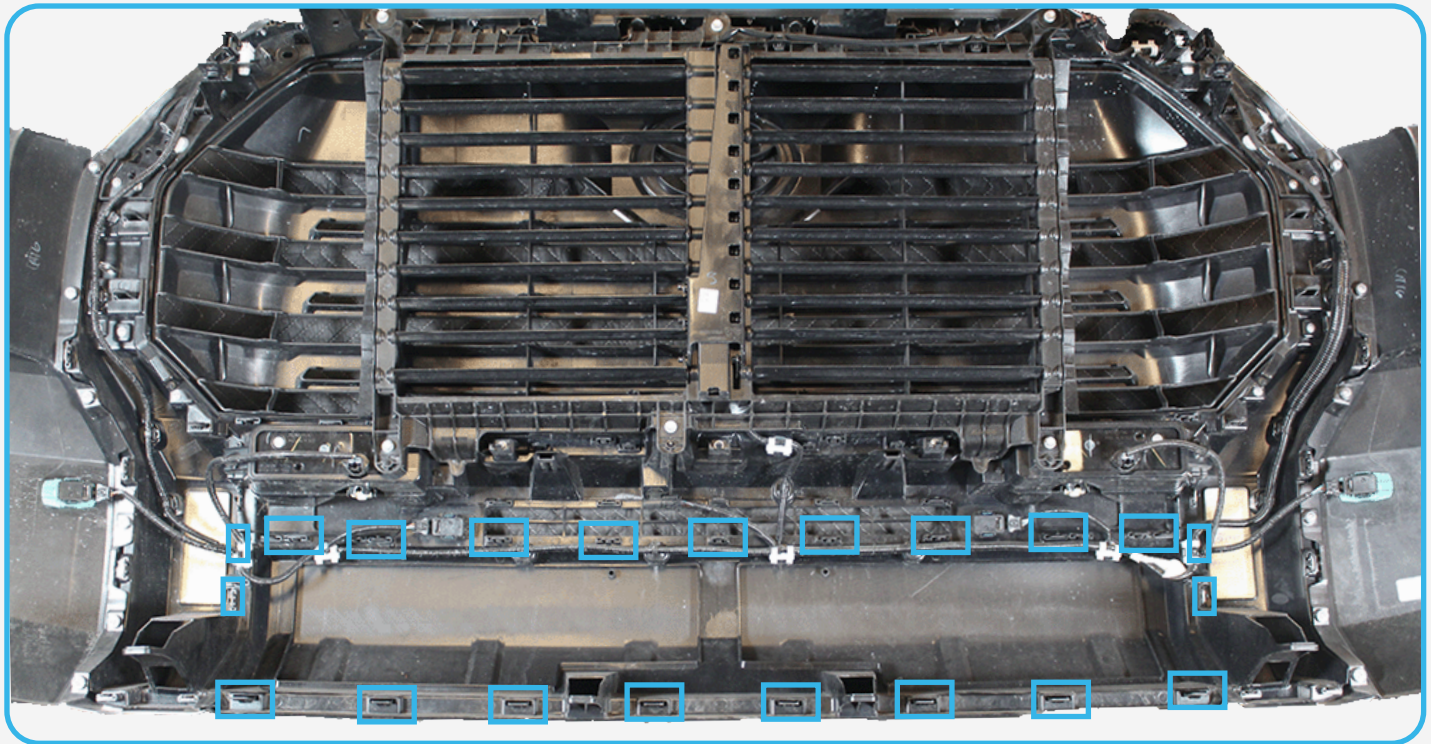
□ STEP 14

Keep the coolant line in front of the motor and plug in your air dam motor.



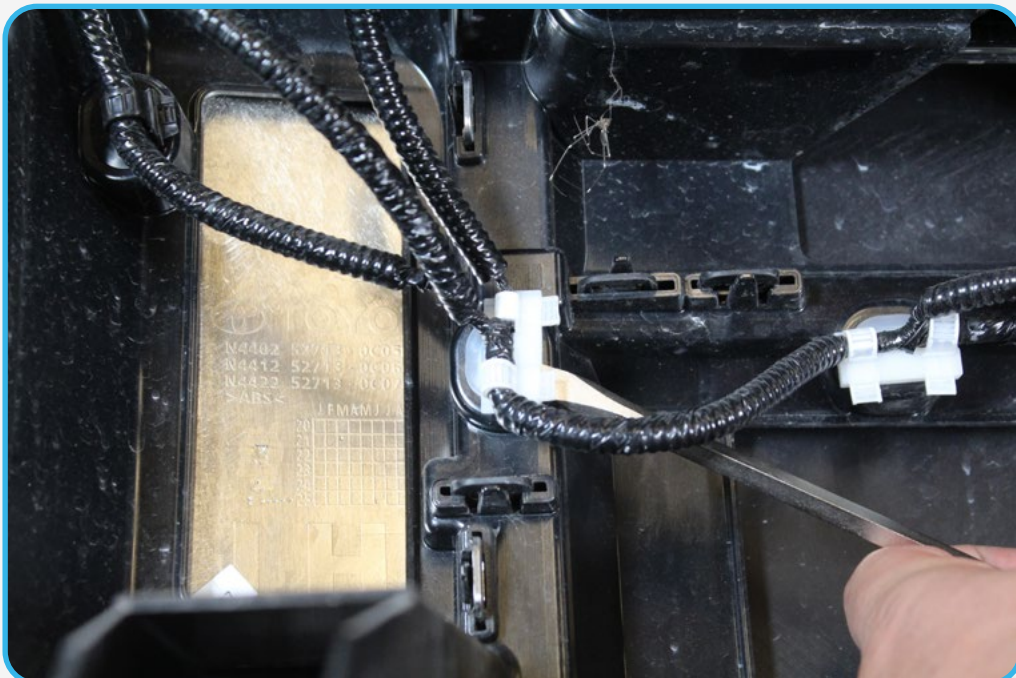
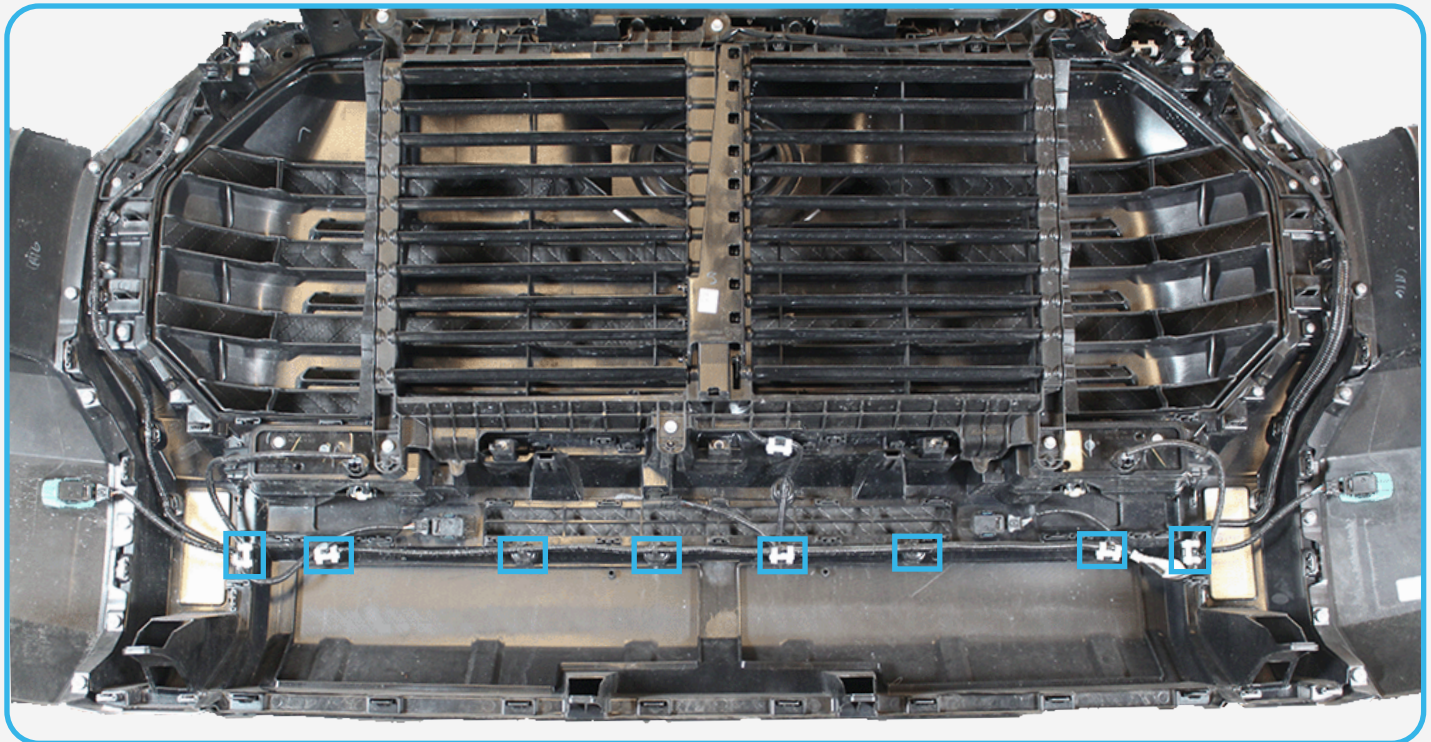
□ STEP 15

Remove the center plastic from the front assembly by using a (flathead screwdriver) to release the clips shown below.



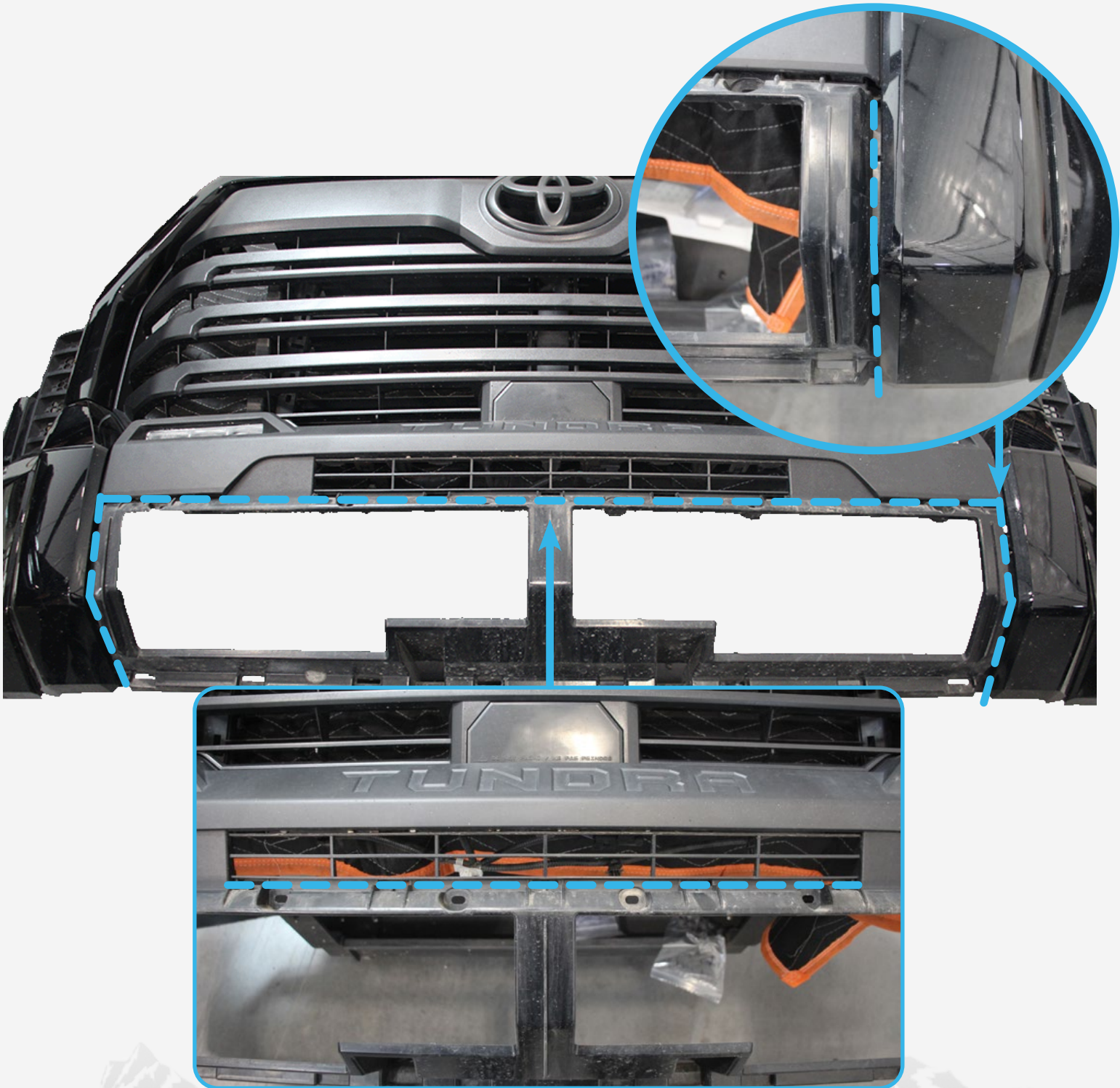
□ STEP 16

Using a (flathead screwdriver) or a (fastener removal tool), remove the highlighted clips and position the harness away from the center section to avoid any wire damage while cutting.



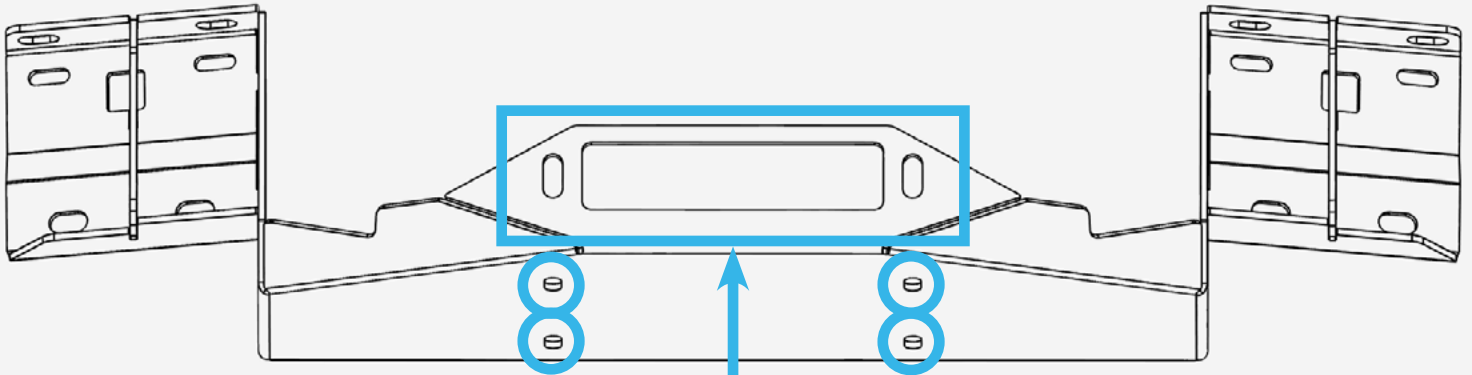
□ STEP 17

Using a (**jigsaw**) or your choice of cutting tools, cut along the dotted lines shown below. You may need to remove the bumper later on during the install to fine tune your cut to your desired fitment.



□ STEP 18

Install the winch and fairlead before installing the mount.



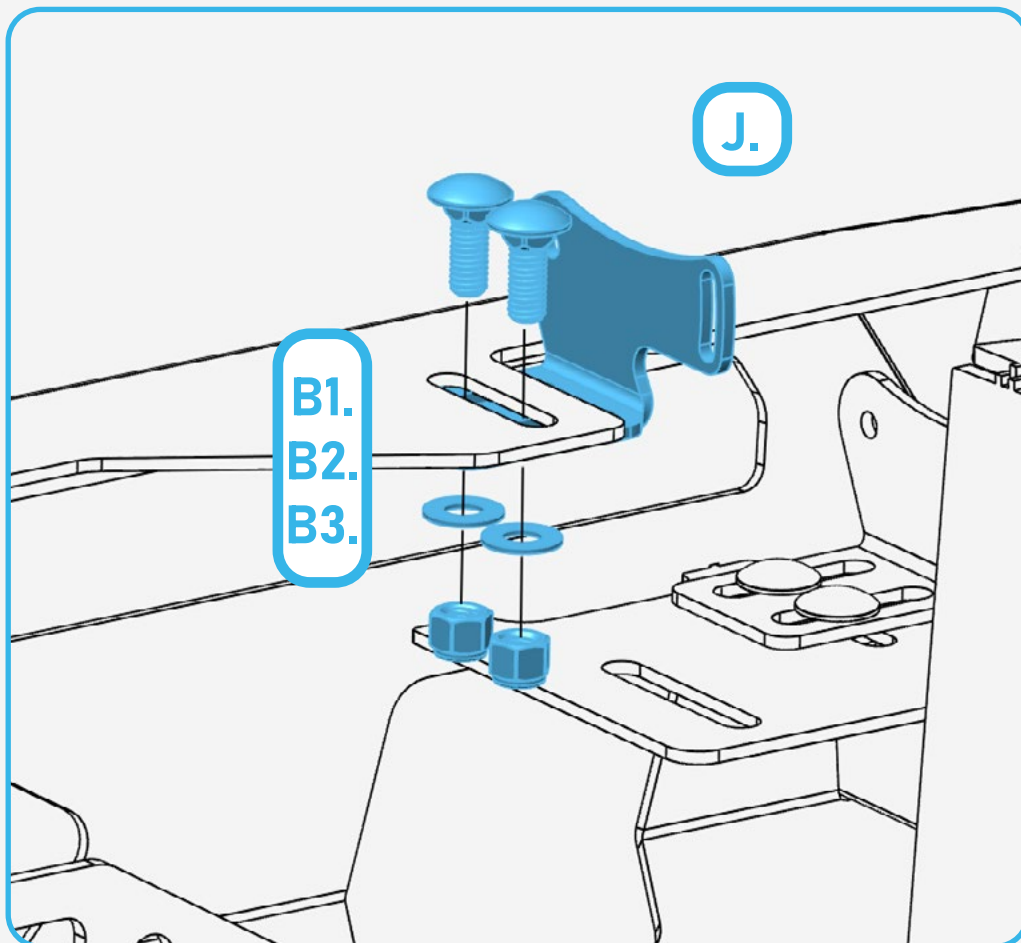
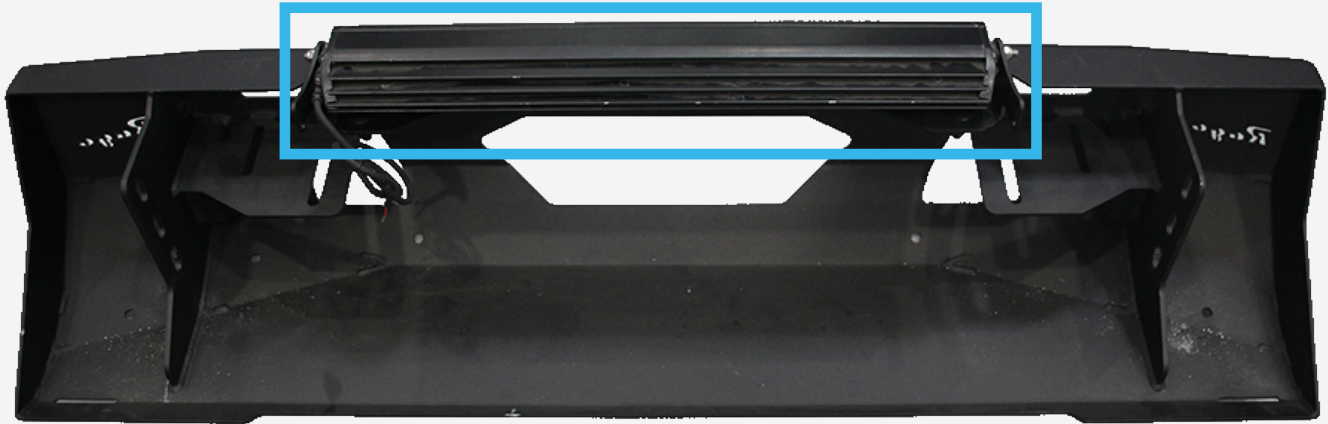
□ STEP 19

Re-Install the front assembly to the truck and with a helping hand, install the winch mount with OEM hardware removed in **step 6** using a (17mm socket). Next install the provided (C, C1, C2) 3/8" hardware as shown below using a (9/16 socket and wrench). Next install the provided (D, D2, D3) 1/2" hardware using a (3/4 socket and wrench). ****Tighten the top 1/2" hardware before tightening the 3/8" and OEM hardware****



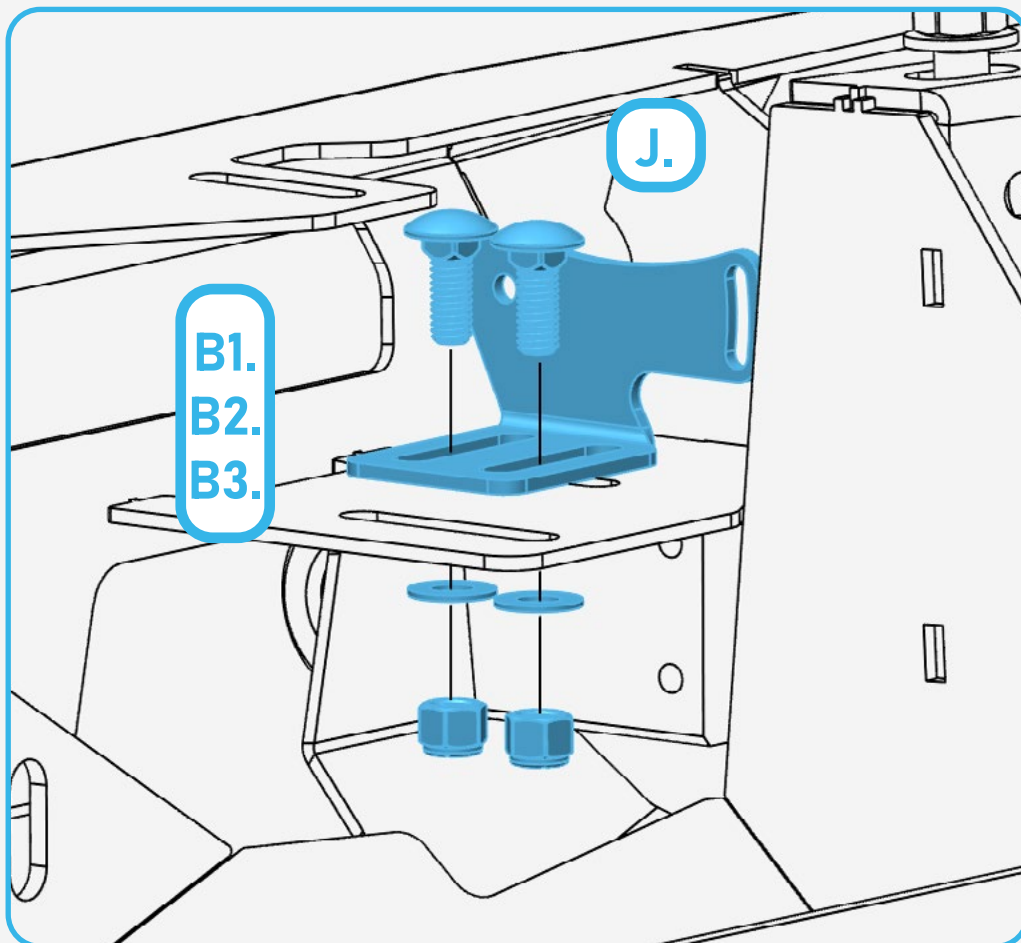
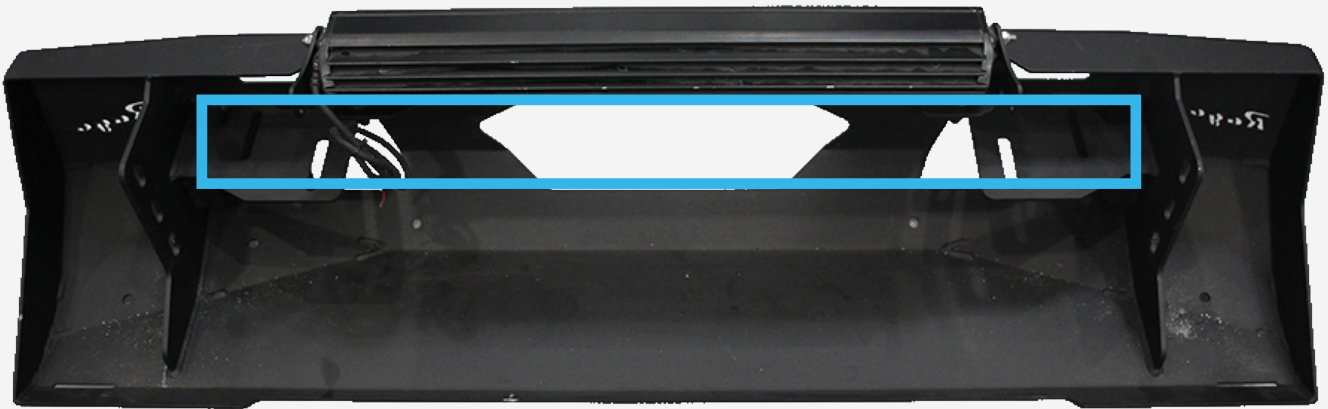
□ STEP 20

Install the top light bar with the provided (J) light bracket with the provided (B1, B2, B3) 3/8" carriage bolt and hardware using a (9/16 wrench). ****Ensure the bracket is install below the top edge as shown below****



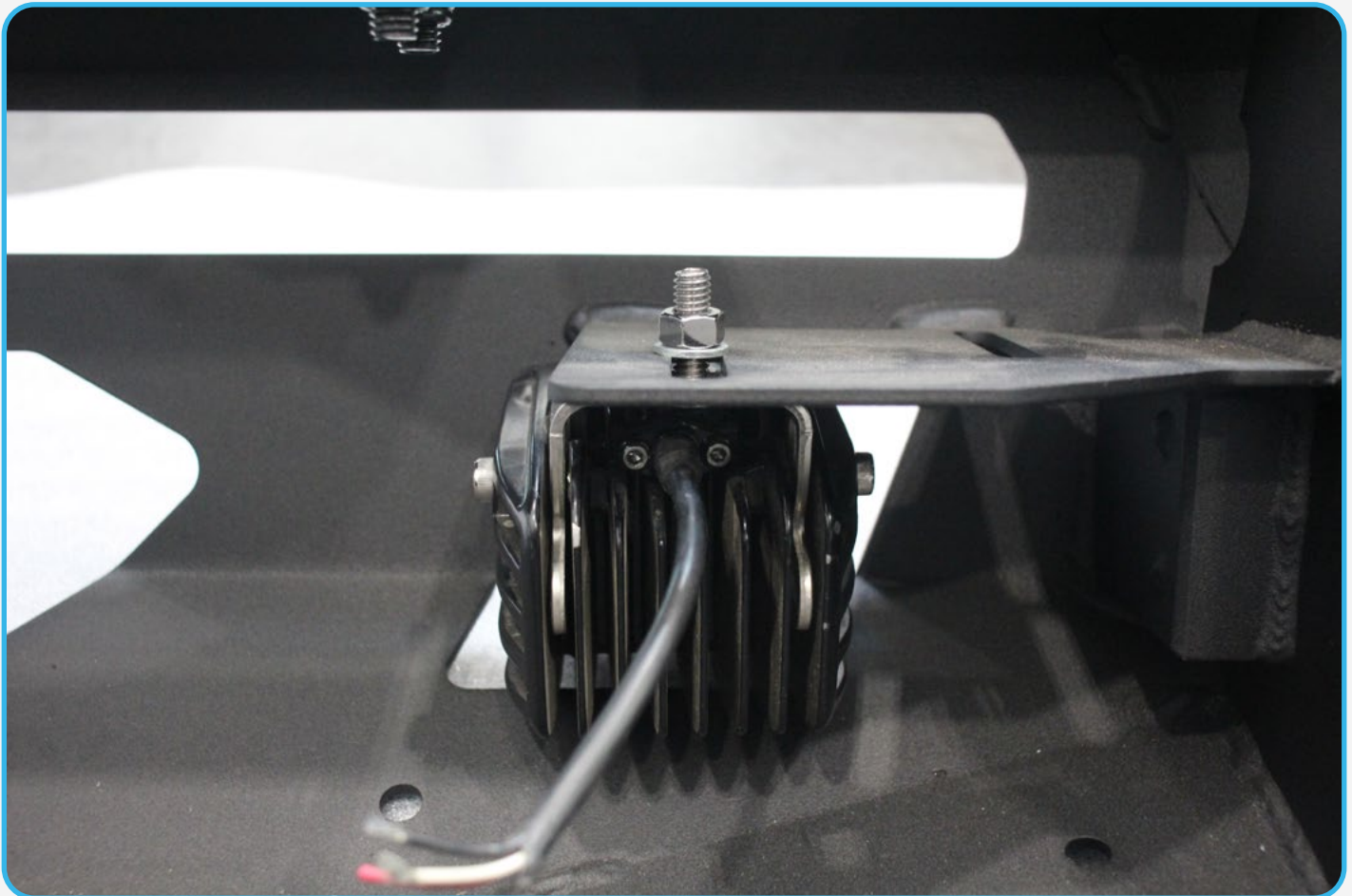
□ STEP 21

Install the inside light bar with the provided **(J)** light brackets with the provided **(B1, B2, B3)** 3/8" carriage bolts and hardware using a **(9/16 wrench)**.



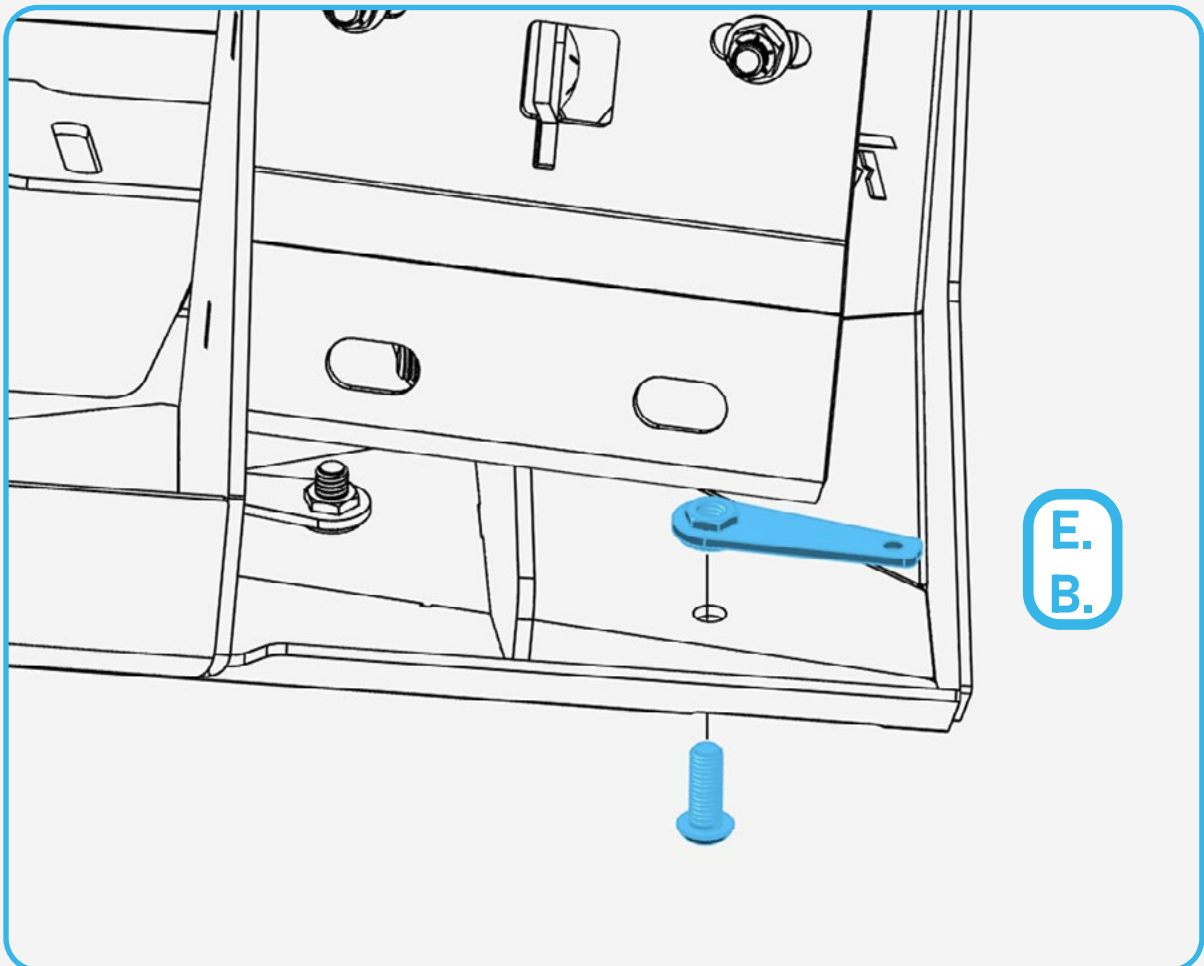
□ STEP 22

Next install the cube lights into the slots shown below.



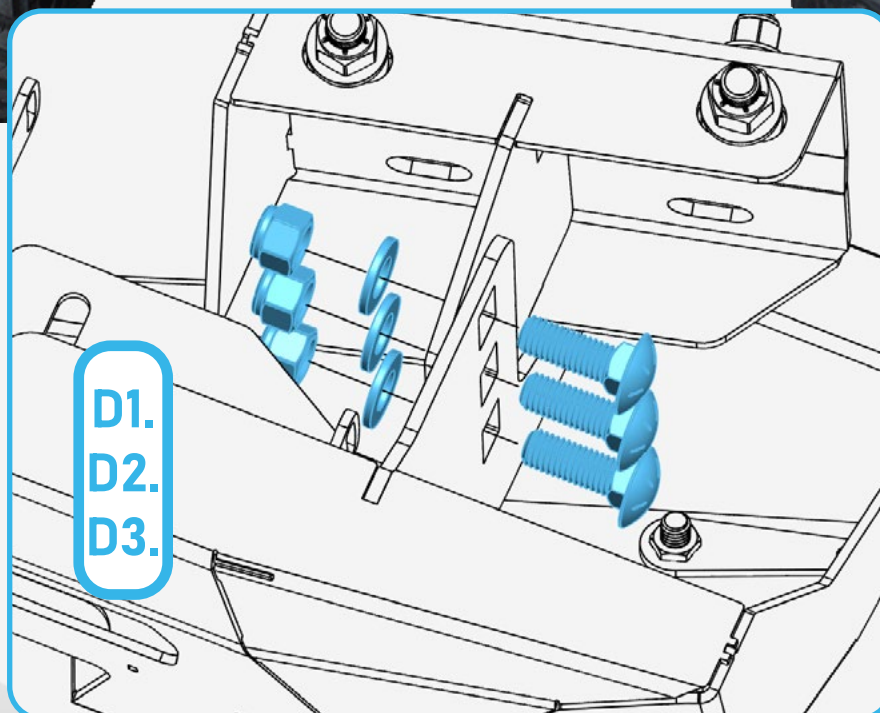
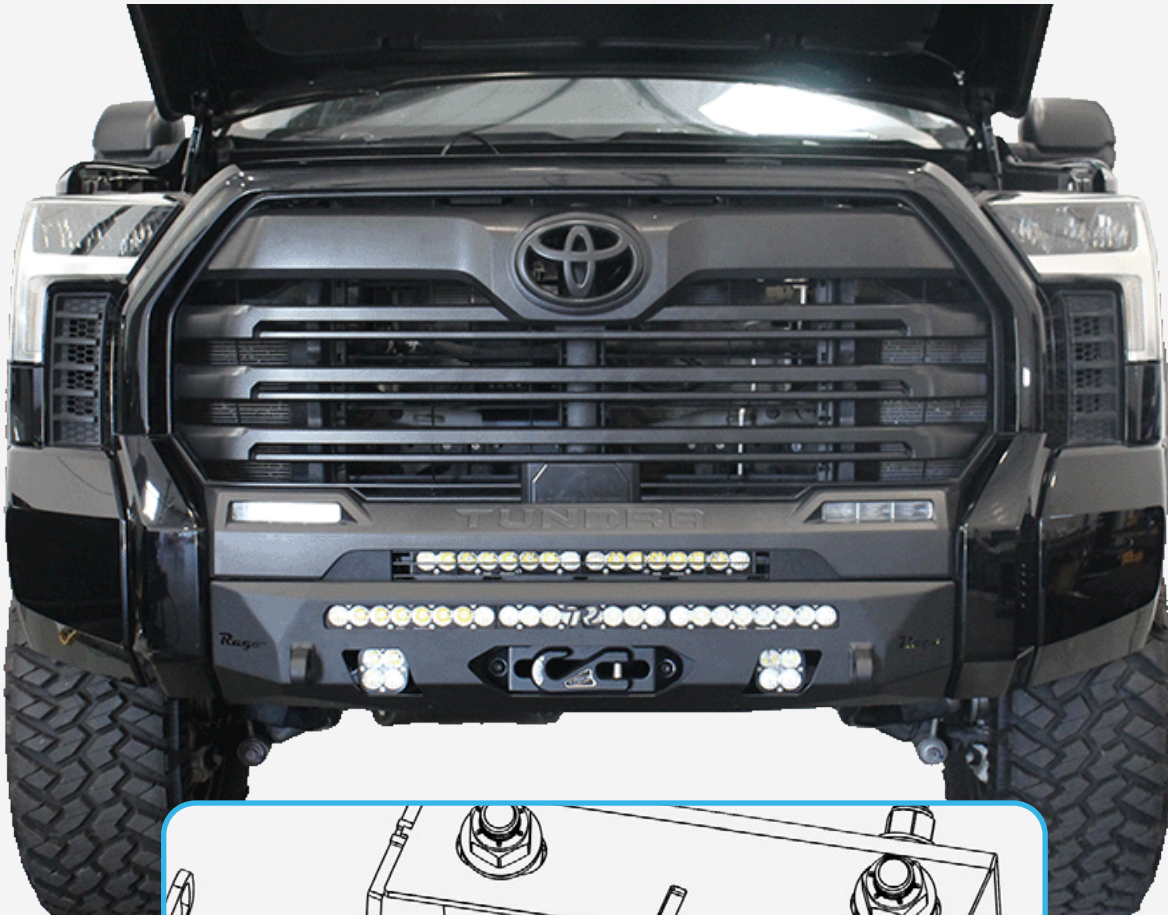
□ STEP 23

If you did not purchase a skid plate, install the provided (E) flag nuts inside the bumper with the provided (B) 3/8" Button head bolts using a (7/32 allen).



□ STEP 24

With a helping hand install the bumper to the winch mount with the provided (D1, D2, D3) 1/2" hardware as shown below using a (3/4 wrench). Install the bumper at a angle to slip the light behind the grill. ****If you are not happy with the cut, Remove and fine tune as needed****



☐ STEP 25 1/2"

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

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

