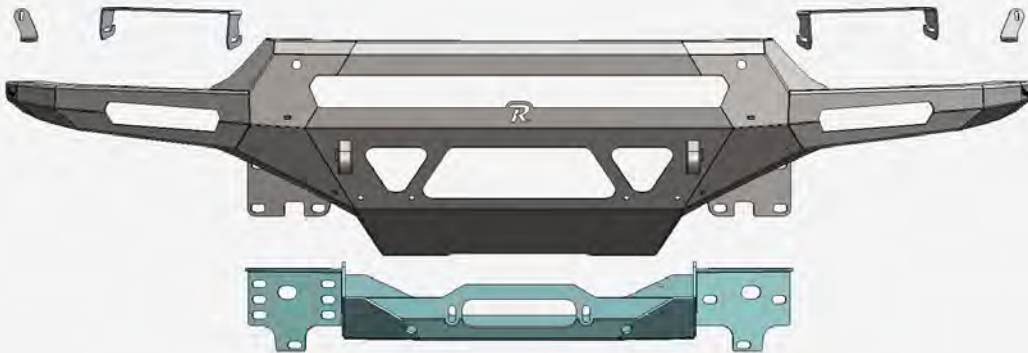


FULL-WIDTH FRONT BUMPER

2024-UP/LEXUS GX 550

F8404227301NA



TOOLS REQUIRED

- 8mm, 10mm, 17mm, 7/16, 9/16, 3/4 sockets
- 8mm, 10mm, 17mm, 7/16, 9/16, 3/4 wrenches
- Fastener removal tool or Flathead Screwdriver
 - Phillips Screwdriver
 - 5/32 Allen
 - Razor Blade
- Rivet Nut Hand Tool
 - Super Glue
- Jigsaw/Cutting Tools
 - Heat Gun
 - Vice Grip
 - Marker

SKILL LEVEL

- Hard

TIME REQUIRED

- Approximately 6 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: 16

A1.



M6 FLAT WASHER

QTY: 24

A2.



1/4-20" RIVET NUT

QTY: 8

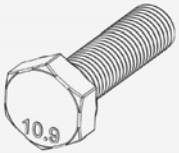
A3.



1/4-20" NYLON LOCK NUT

QTY: 8

B.



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

QTY: 12

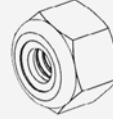
B1.



1/2" FLAT WASHER

QTY: 24

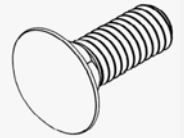
B2.



1/2-13" NYLON LOCK NUT

QTY: 12

C.



3/8-16 X 1" CARRIAGE BOLT

QTY: 2

C1.



3/8-16" FLAT WASHER

QTY: 2

C2.



3/8-16" NYLON LOCK NUT

QTY: 2

D.



SENSOR GROMMET

QTY: 2

D1.



SENSOR PLUG

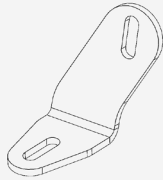
QTY: 2

Reference this page throughout the install



PARTS

E.



SPL1113, SPL113-M

QTY: 1

F.



UUS0036, UUS0036-M

QTY: 1

G.



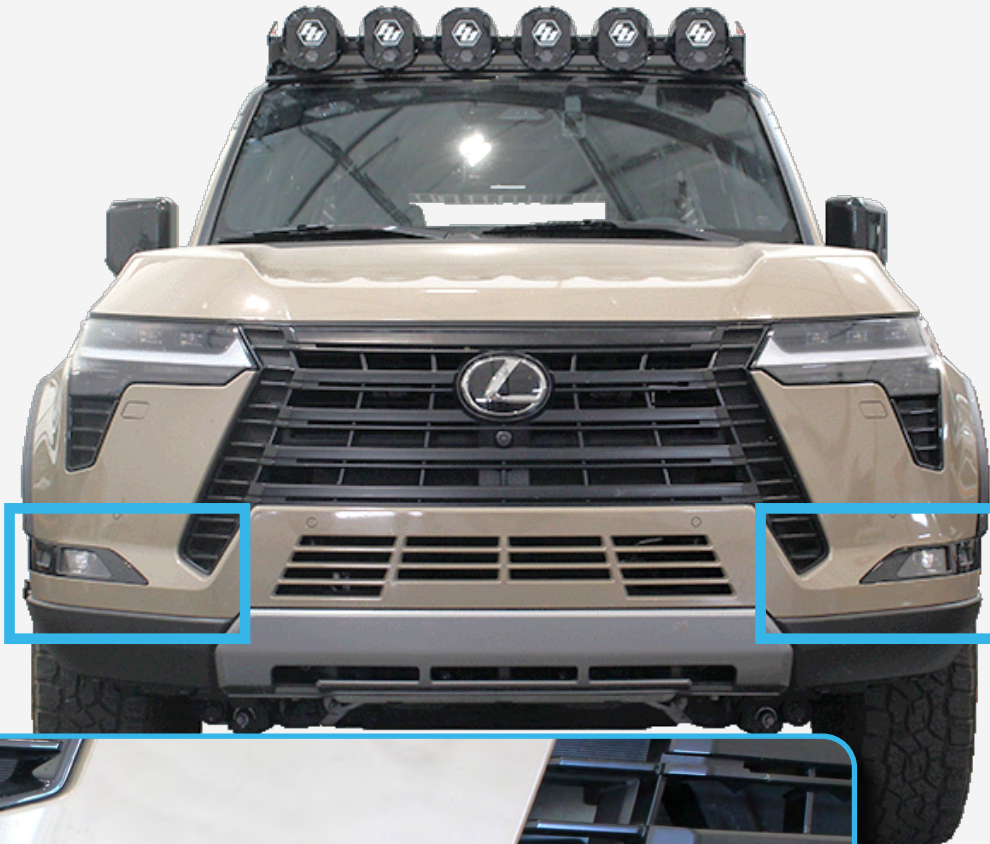
SPL1114, SPL1114-M

QTY: 1



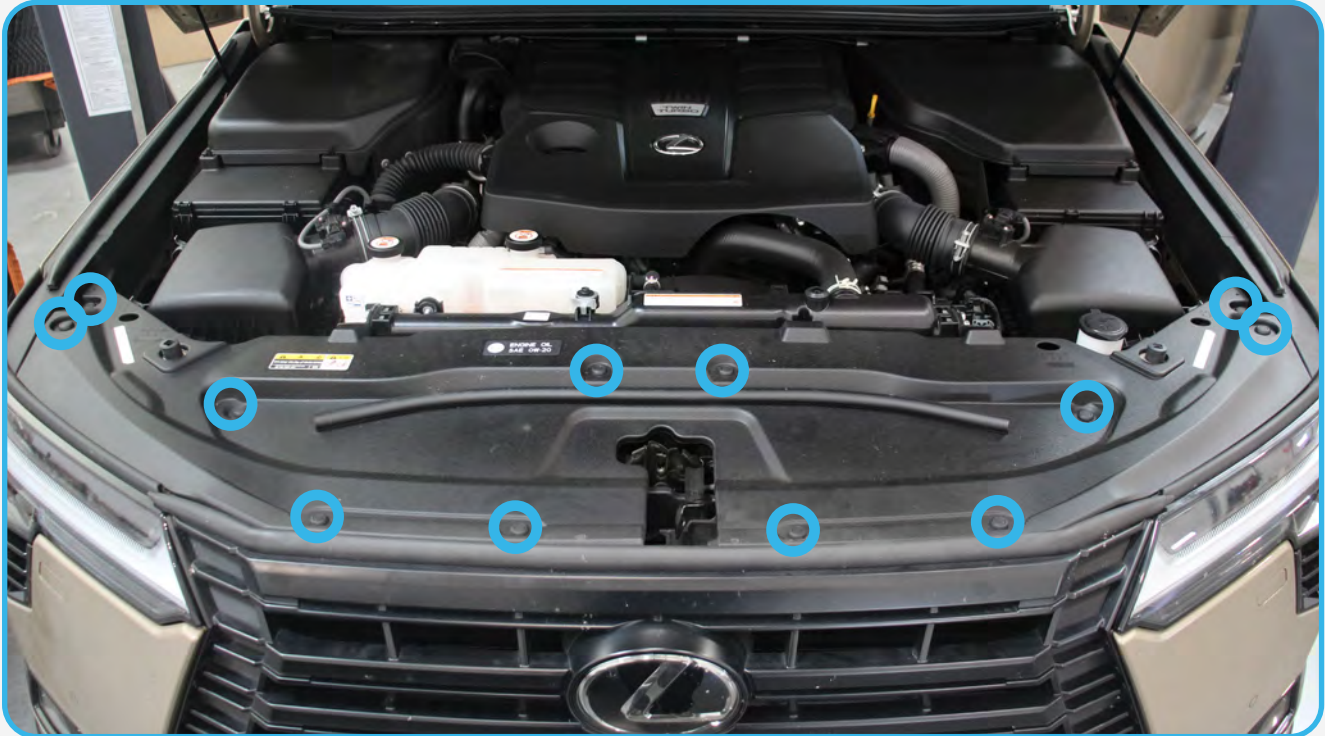
□ STEP 1

Mark a straight rough cut line with the plastic retaining the fog lights as shown below on both driver and passenger side.



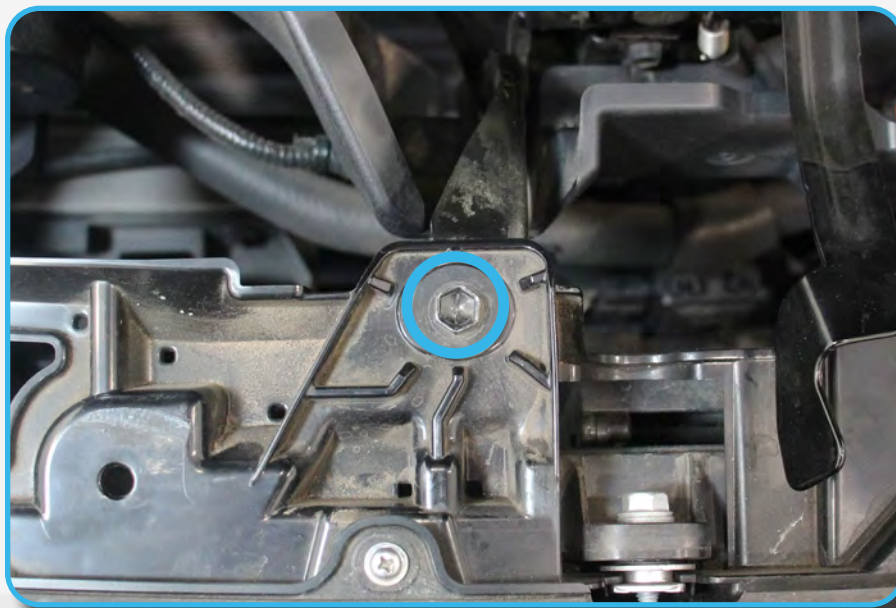
□ STEP 2

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



STEP 3

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



STEP 4

Using a (Fastener Removal Tool) remove the plastic push pins located in the wheel well.
****KEEP HARDWARE****



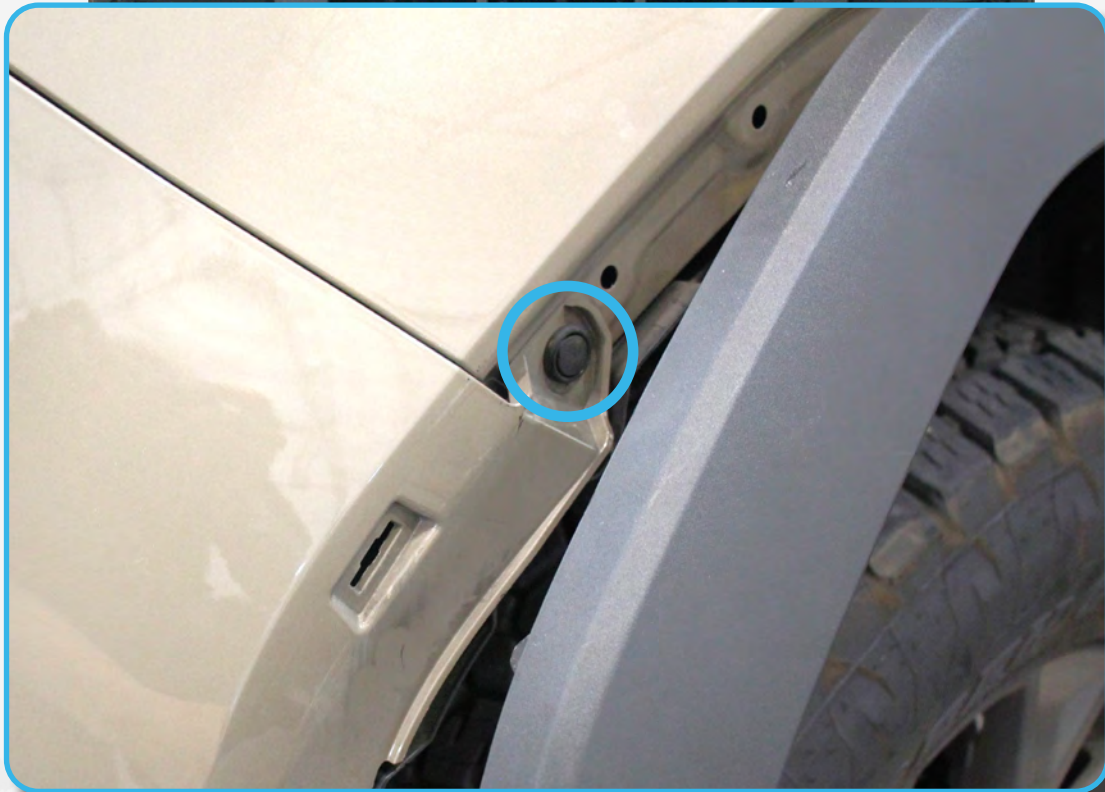
□ STEP 5

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



□ STEP 6

Using a (**Fastener Removal Tool**), remove the push pins located behind the fender flare as shown below.



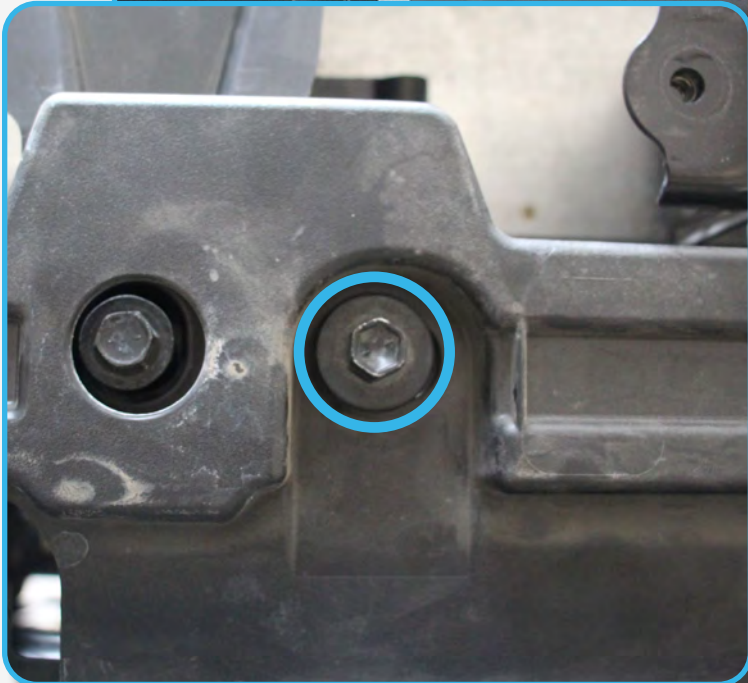
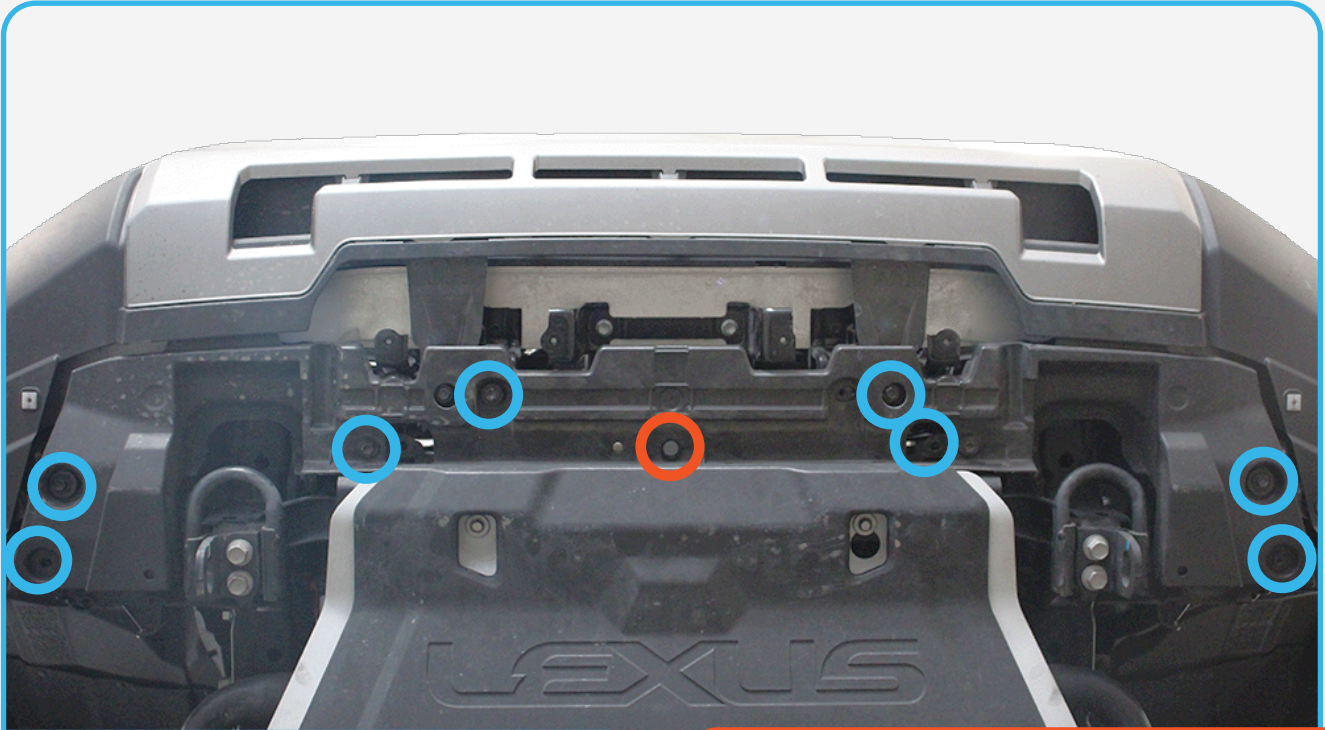
STEP 7

Using a (10mm socket), remove the 4x bolts holding the front section of the skid plate.



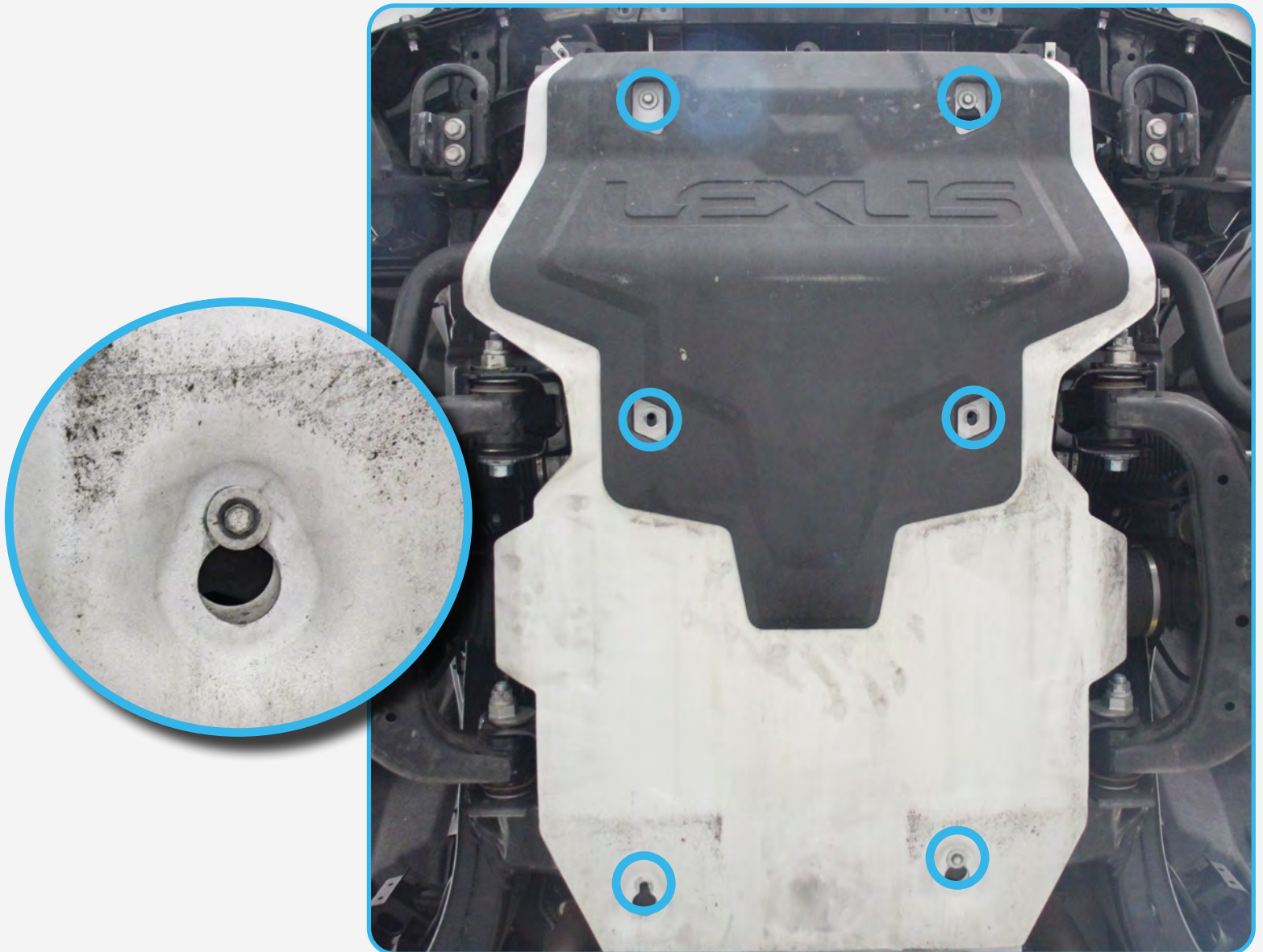
□ STEP 8

Using a (fastener removal tool) and a (10mm socket) remove the hardware highlighted below.



STEP 9

Using a (10mm socket) remove the highlighted hardware to remove the skid plate. ****KEEP HARDWARE****



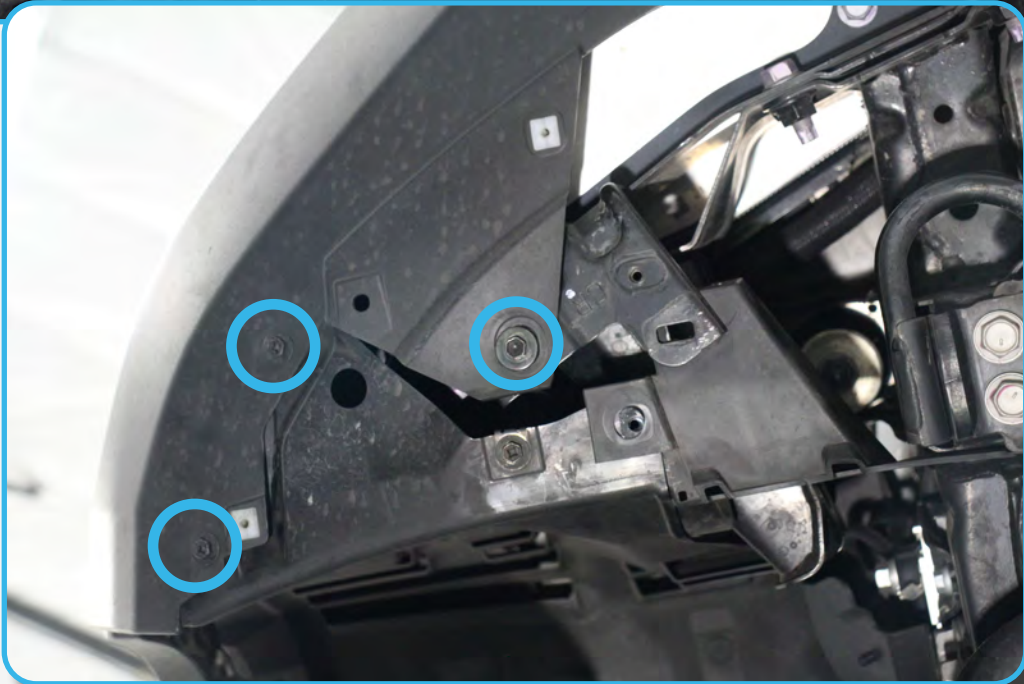
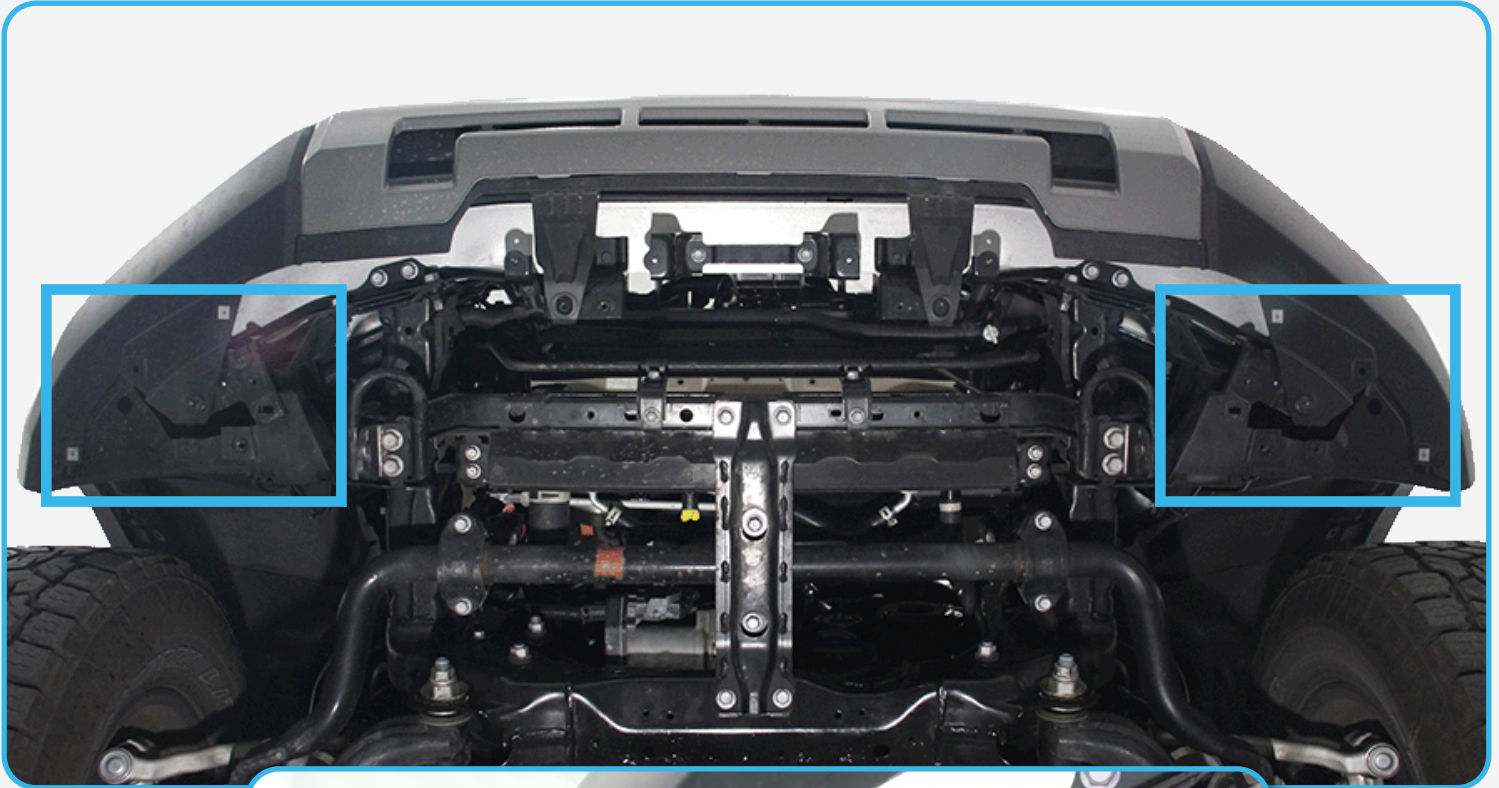
STEP 10

Remove the bracket shown below.



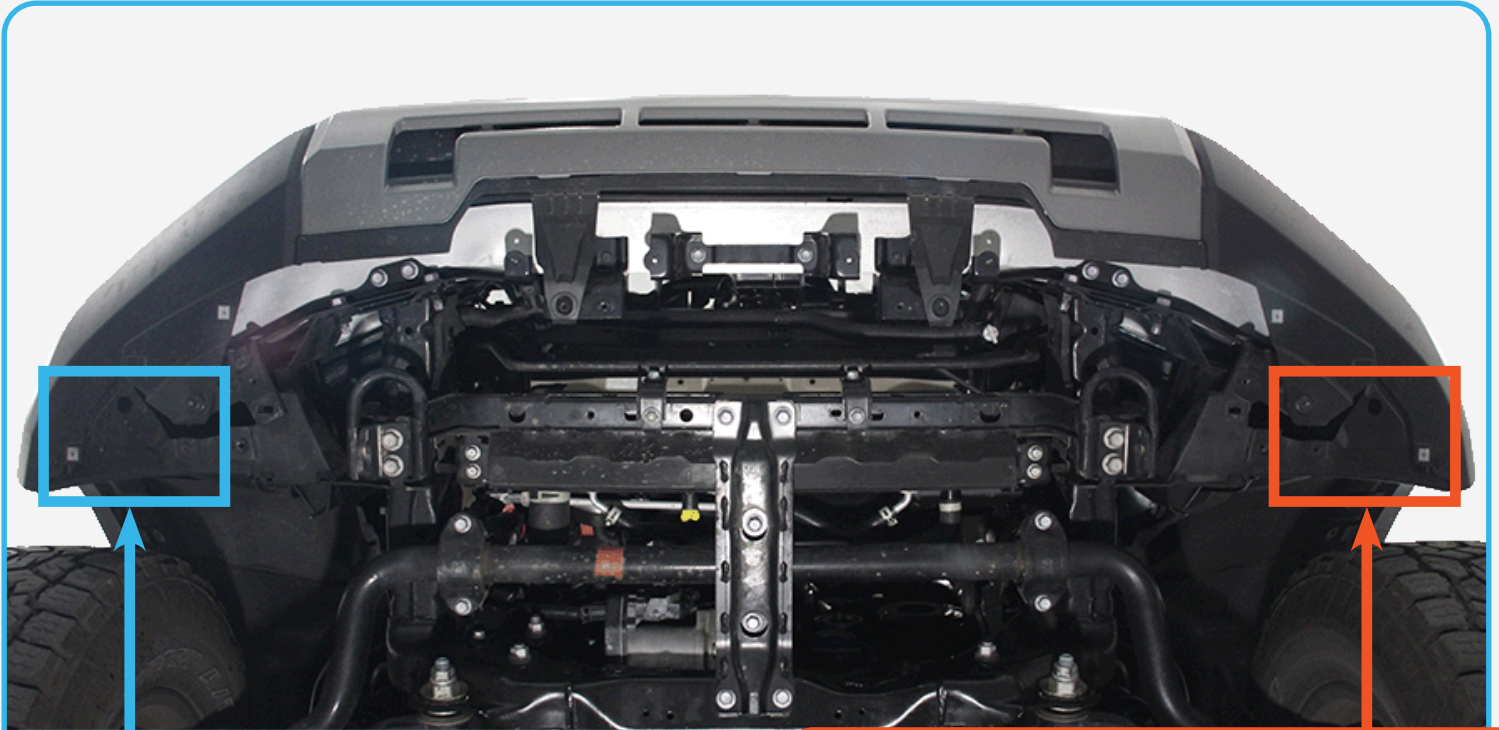
STEP 11

Using a (10mm socket) remove the hardware shown below.



STEP 12

Access the harness plug ins located behind the fender liner and unplug.



□ STEP 13

Disconnect the washer fluid line by pulling. Pinch the line using a pair of vice grips to prevent fluid from leaking.



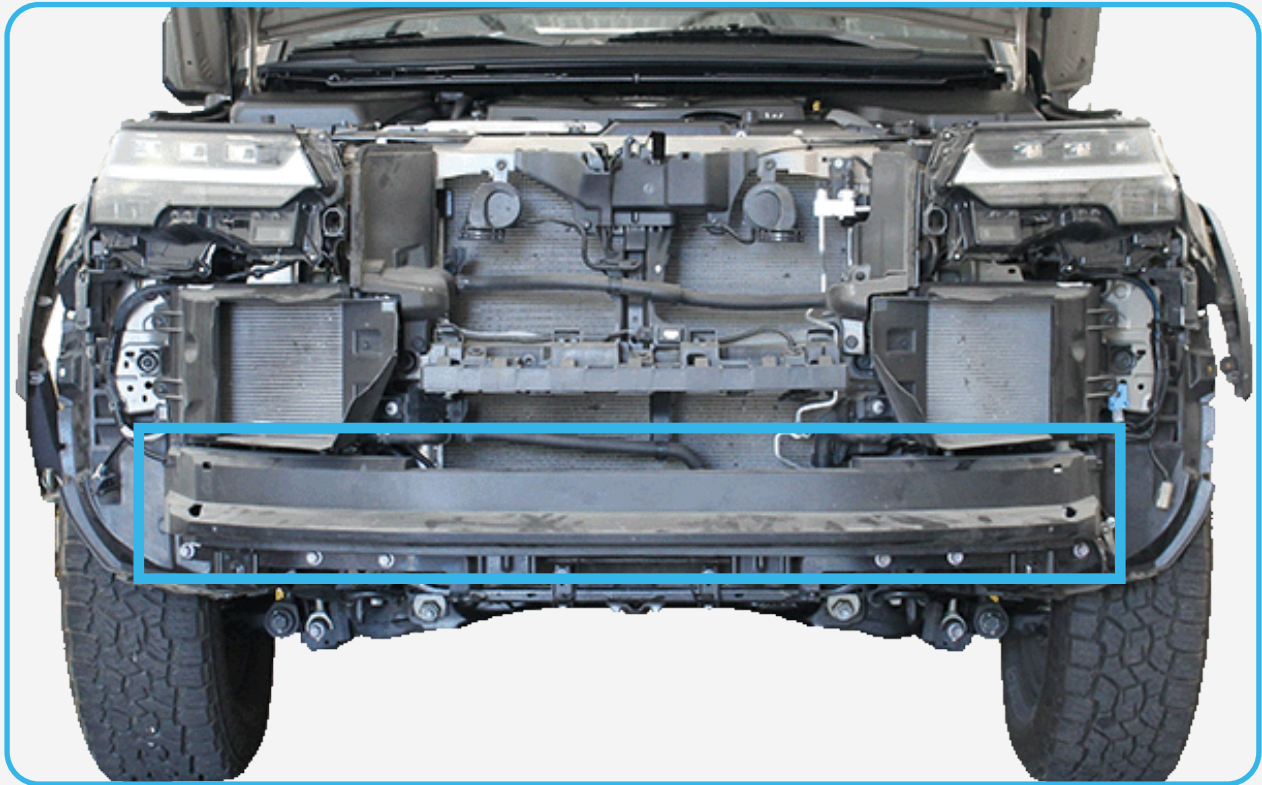
□ STEP 14

Pull outwards on the front valence as shown below. With a helping hand you can now remove the front grill assembly.



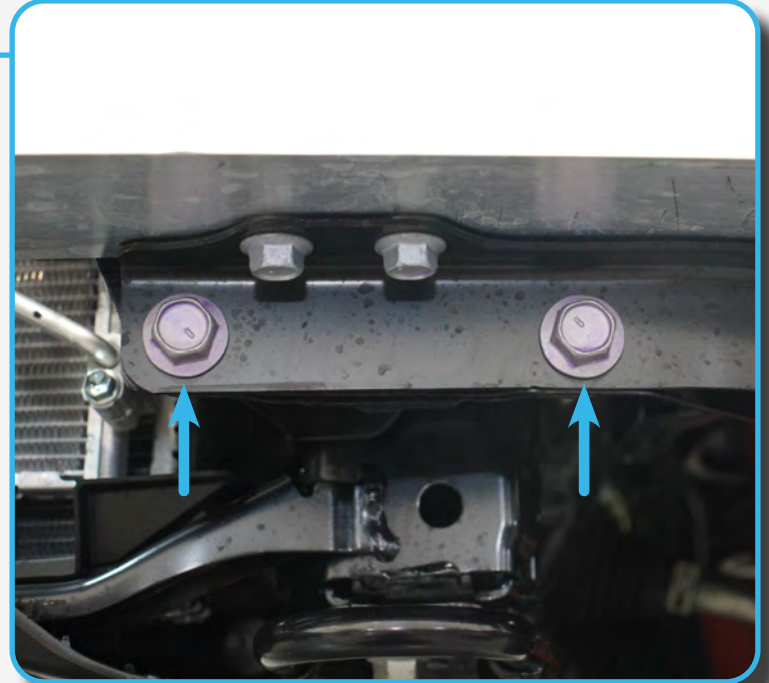
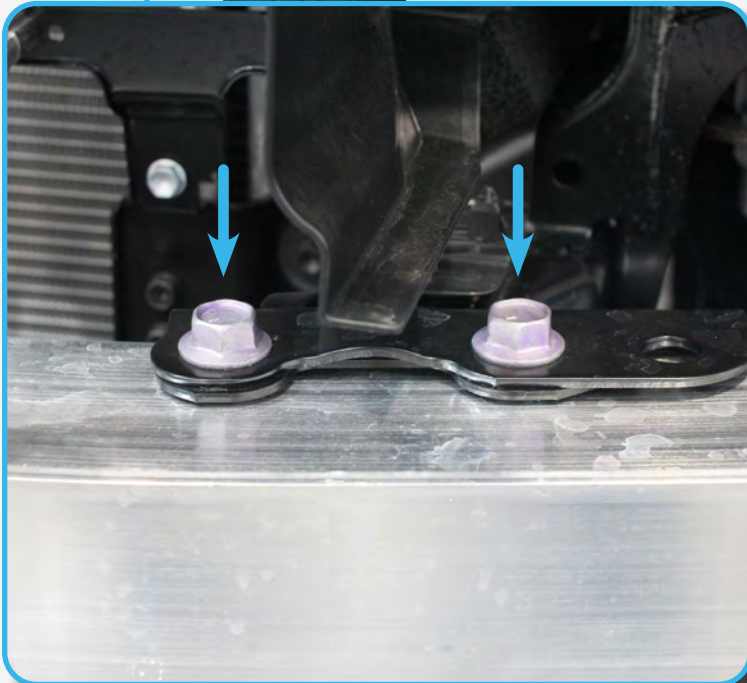
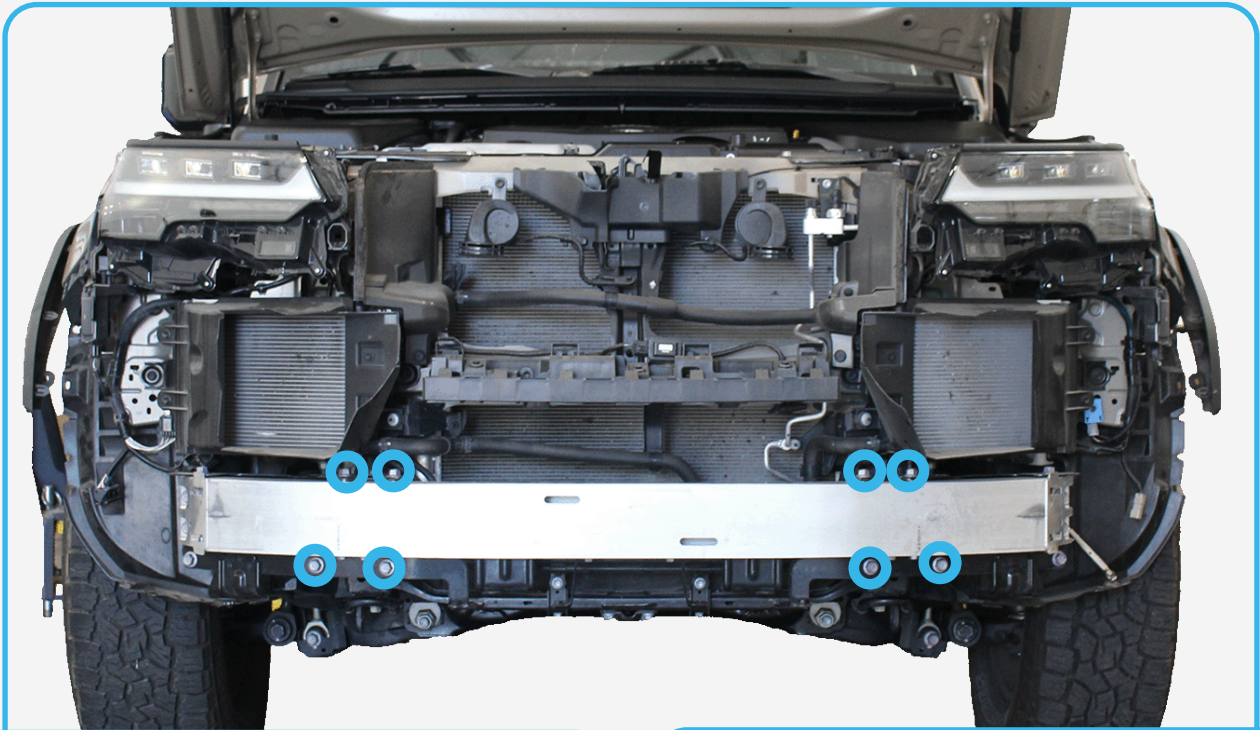
STEP 15

Remove the crash bar cover by pulling.



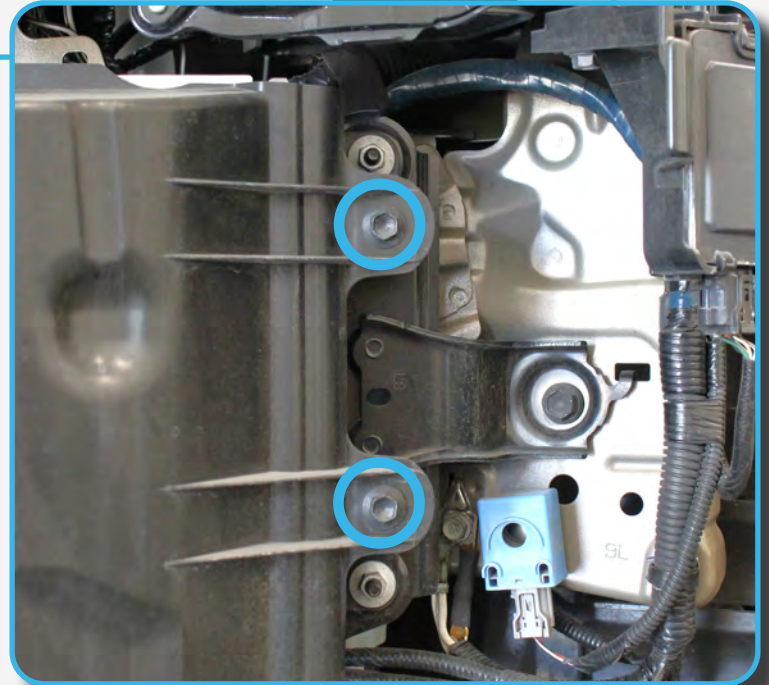
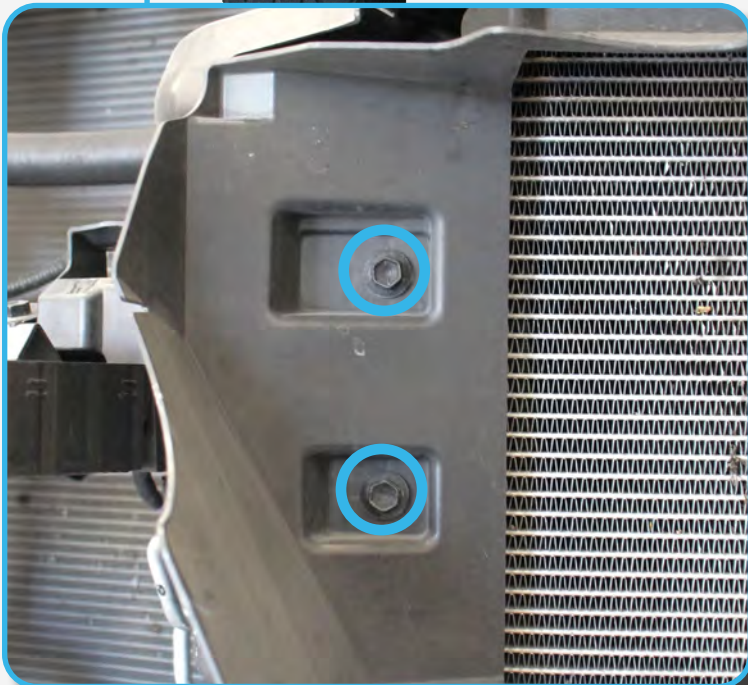
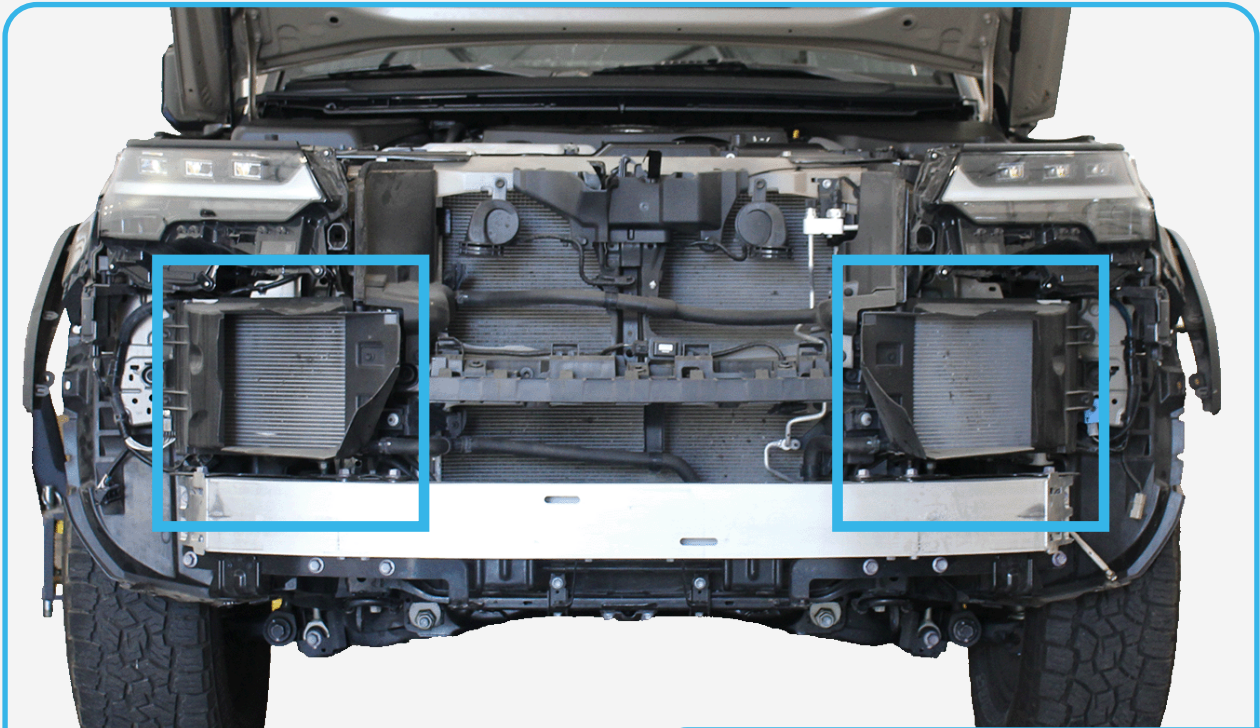
□ STEP 16

Using a (17mm socket), remove the 8x bolts located on top and bottom of the crash bar as shown below. ****KEEP HARDWARE****



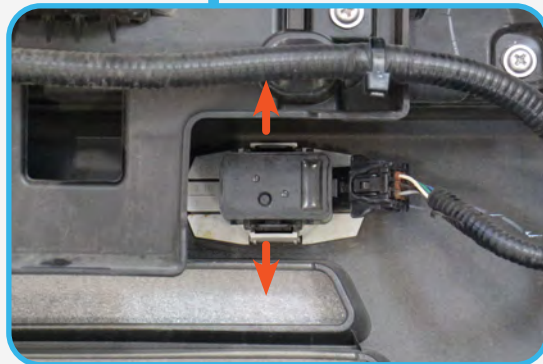
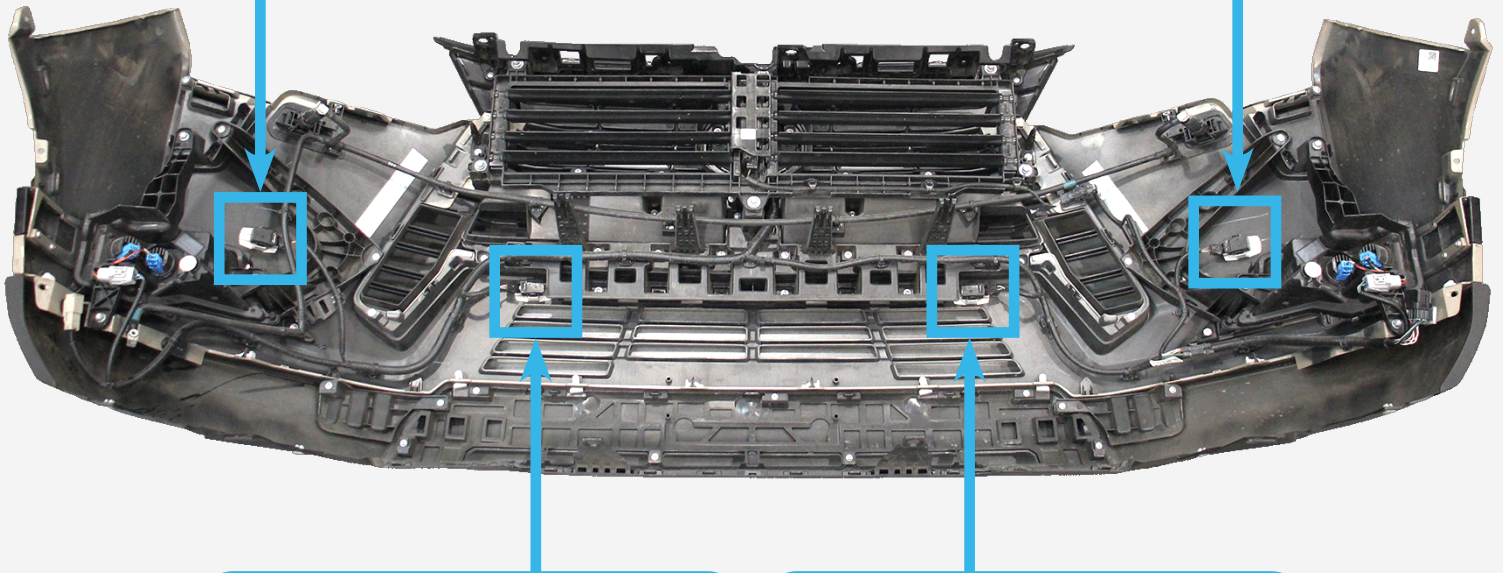
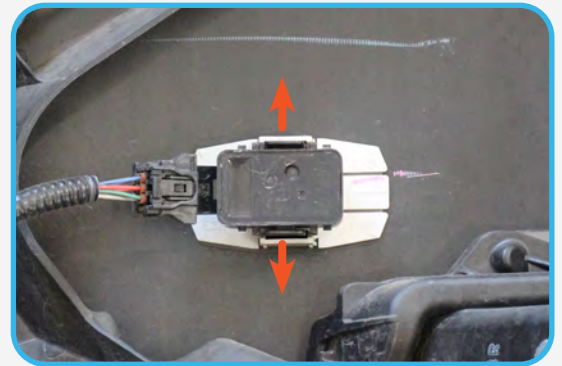
STEP 17

Using a (10mm socket), remove the cooler shrouds as shown below.



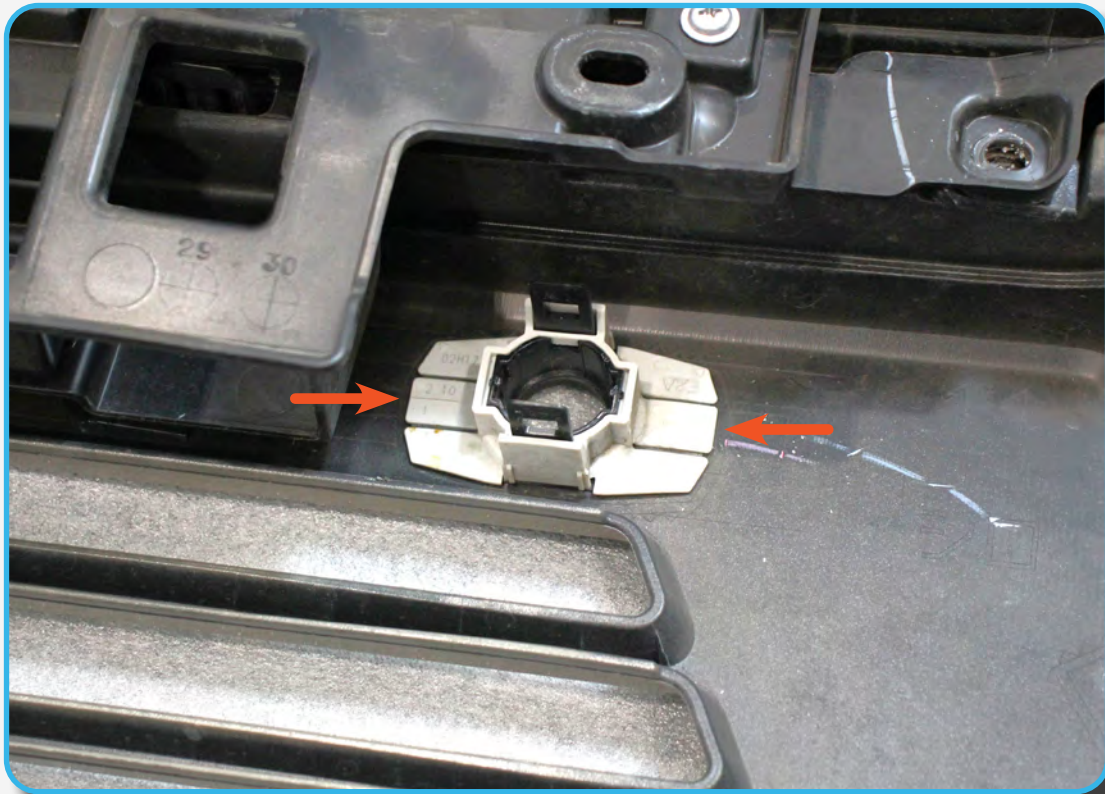
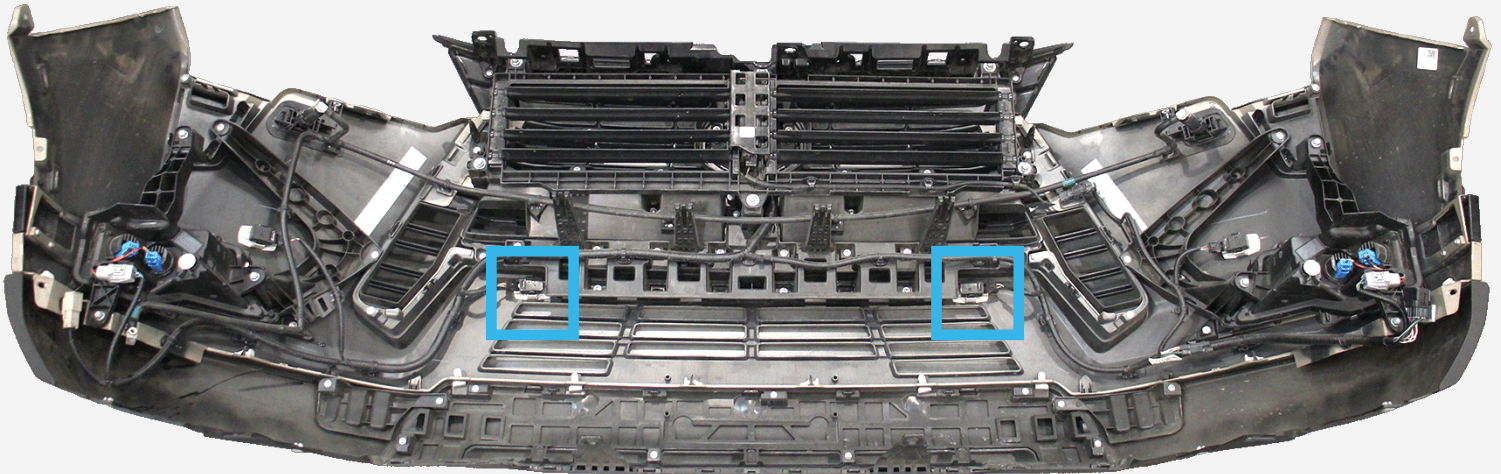
□ STEP 18

Located on the backside of the grill assembly, remove the parking sensors from the bezels by prying the tabs outwards and pulling the sensor up. ****CAUTION: BEZELS ARE FRAGILE, PRY WITH CARE****



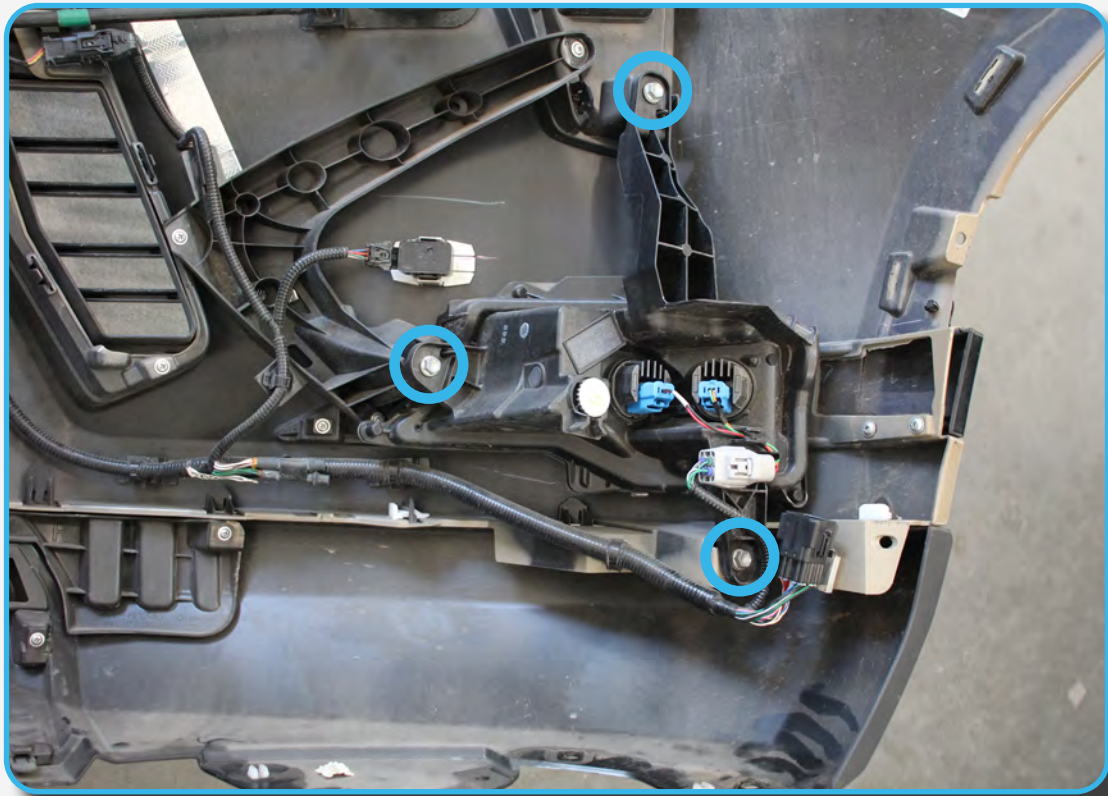
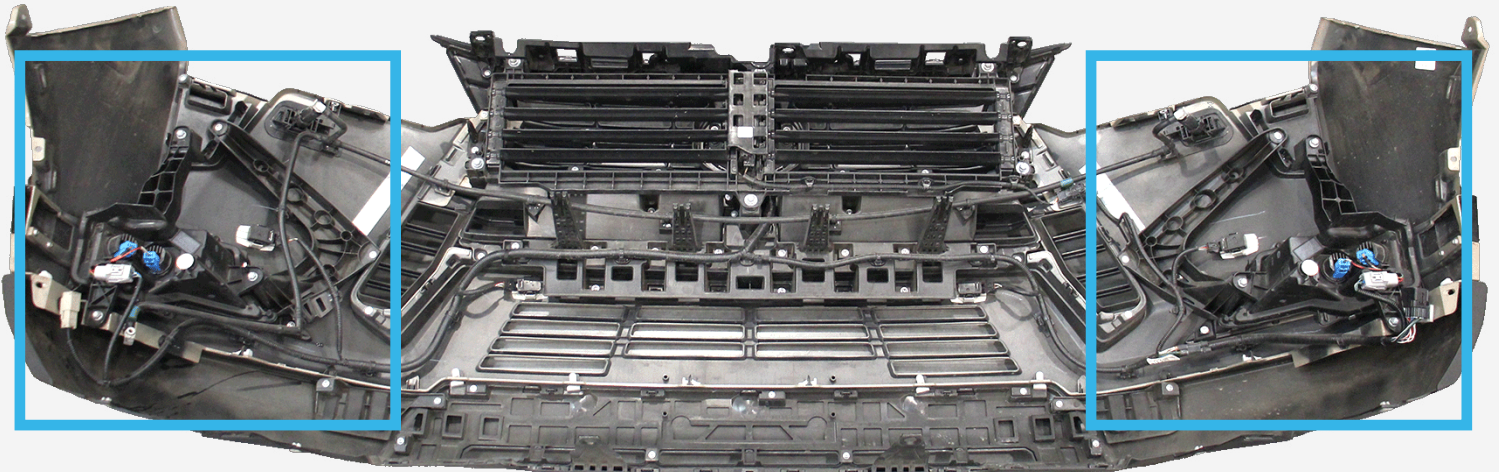
□ STEP 19

Use a (heat gun) to soften adhesive and use (flathead screwdriver) remove the inner sensor bezels from the OEM bumper. ****Keep for install****



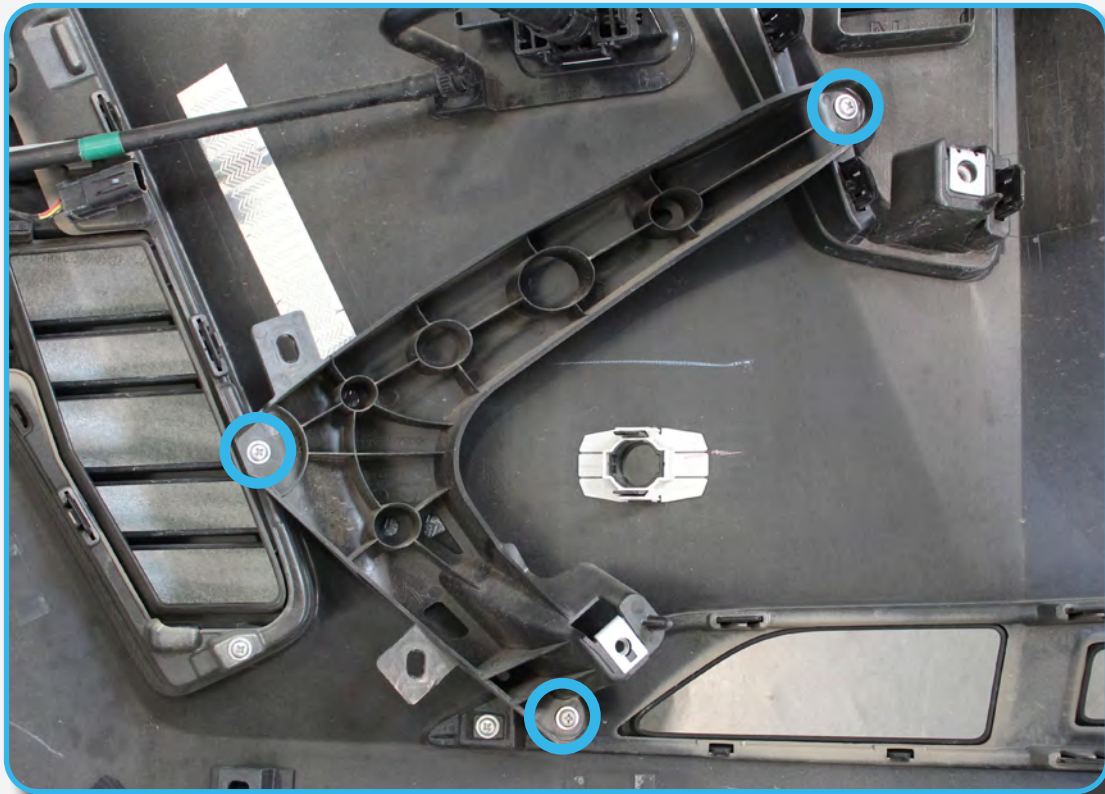
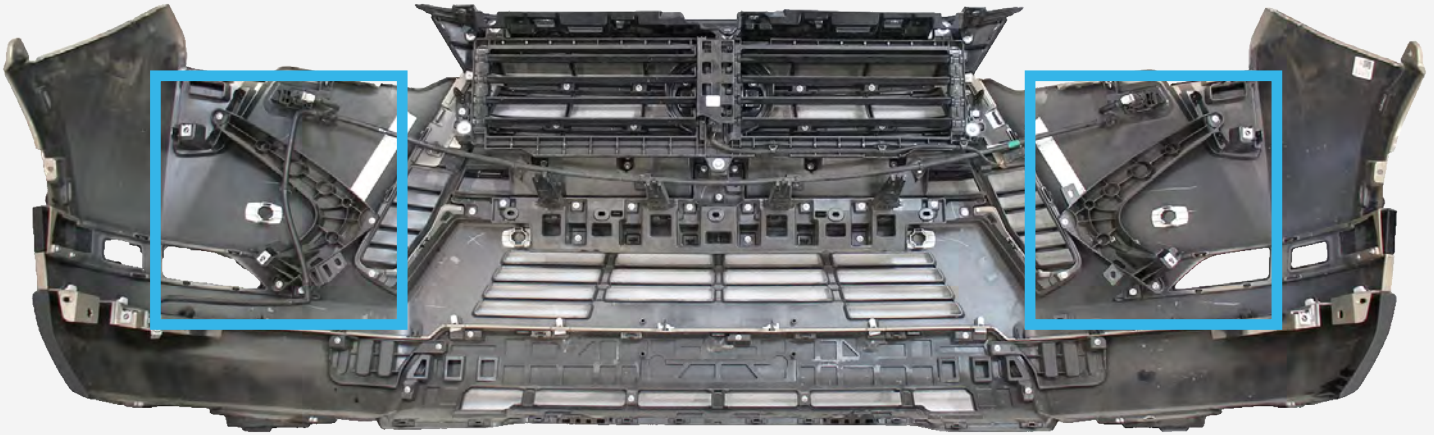
STEP 20

Using a (8mm socket) remove the hardware holding the fog light assembly.



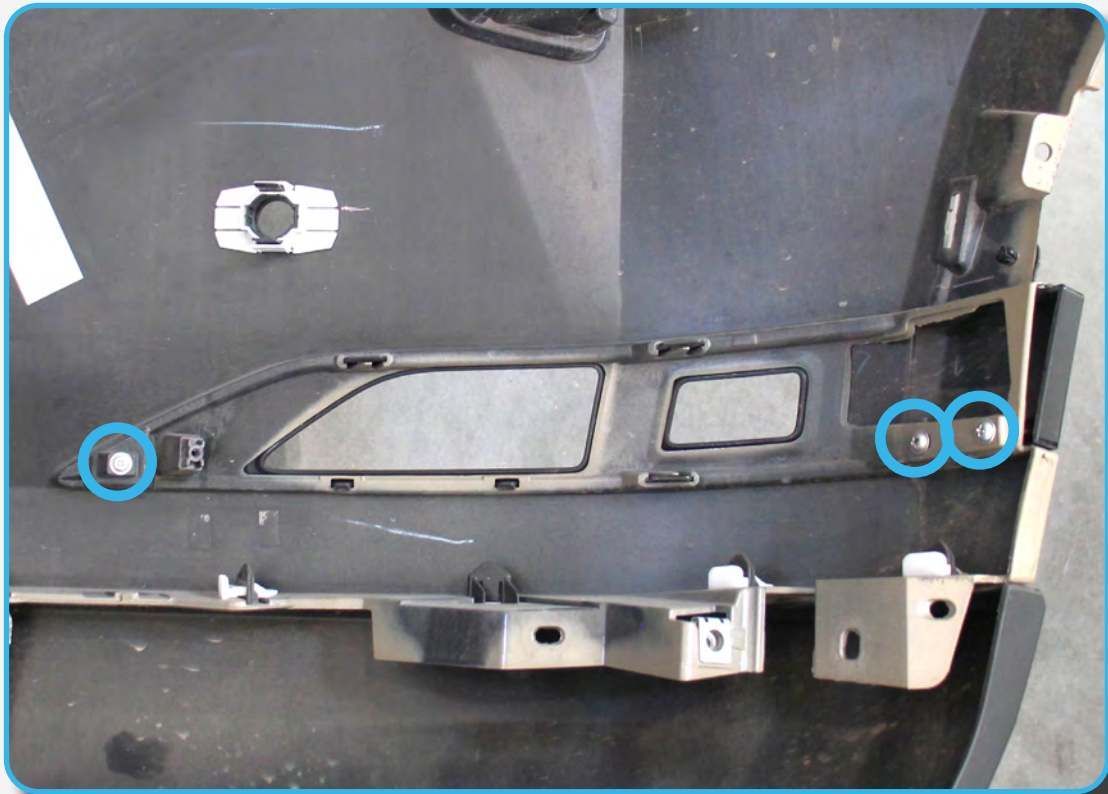
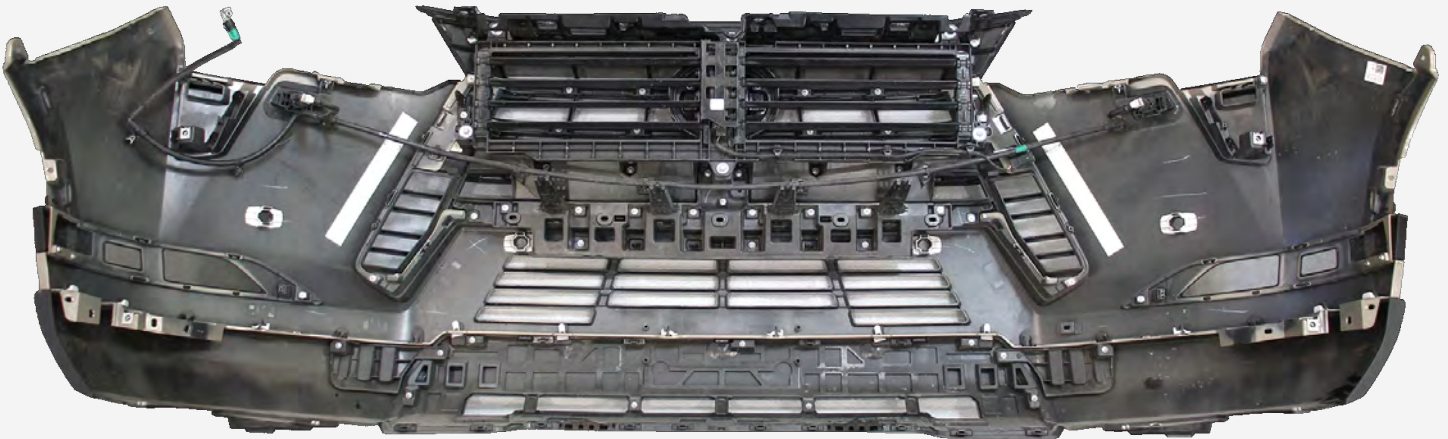
□ STEP 21

Using a (Philips Head Screwdriver) remove the screws holding in the brace as shown below.
****KEEP HARDWARE AND PARTS****



STEP 22

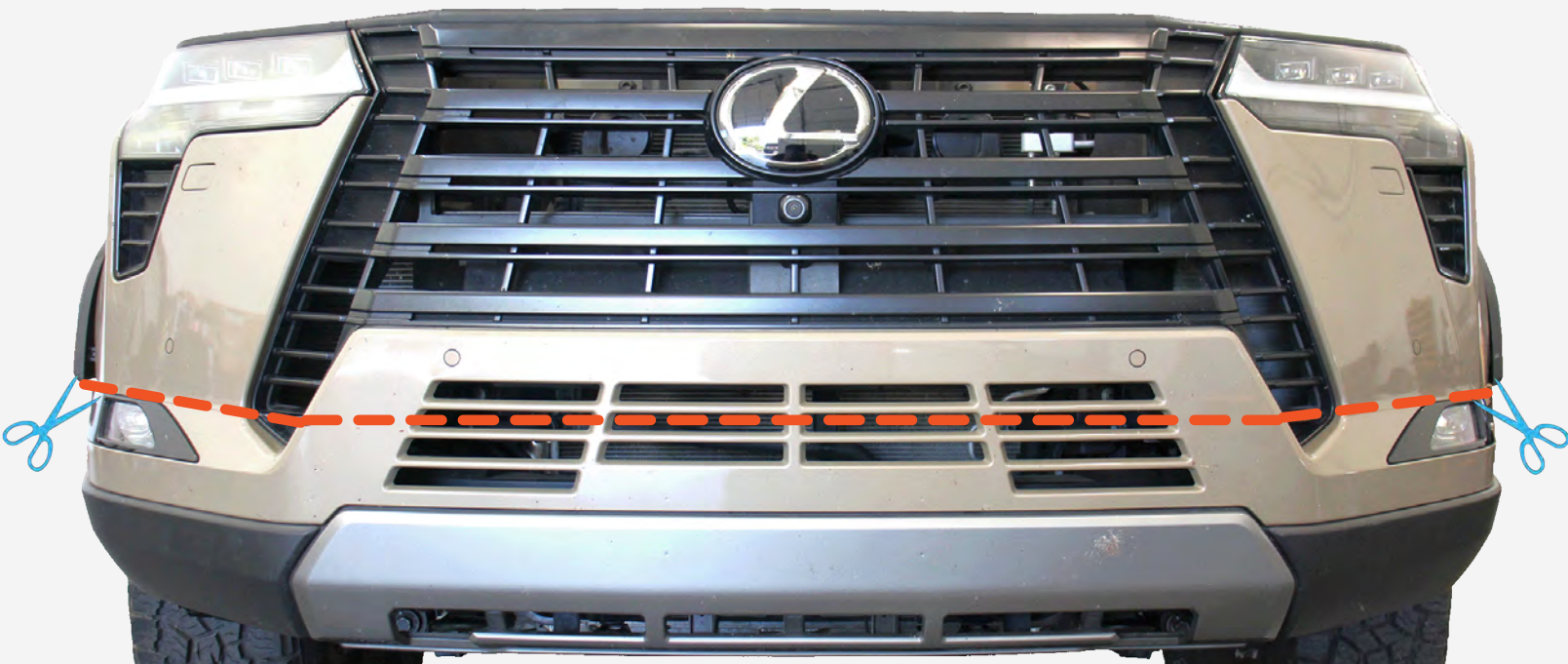
Using a (Philips Head Screwdriver) remove the fog light cover as shown below.



□ STEP 23

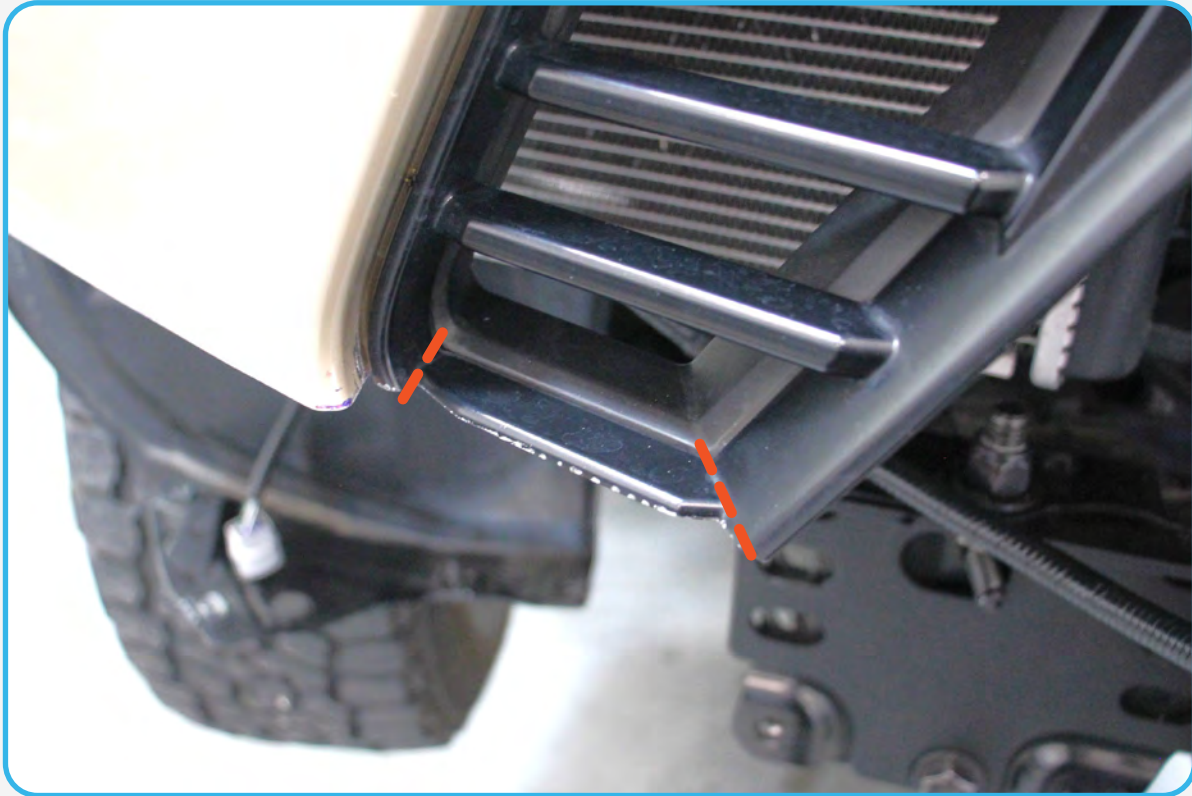
BEFORE CUTTING, Ensure that the wiring harness is tied up out of the way from your cut line.

Next, cut the rough cut line from **step 1** using your choice of cutting tools and cut straight across the center as shown in the second picture.



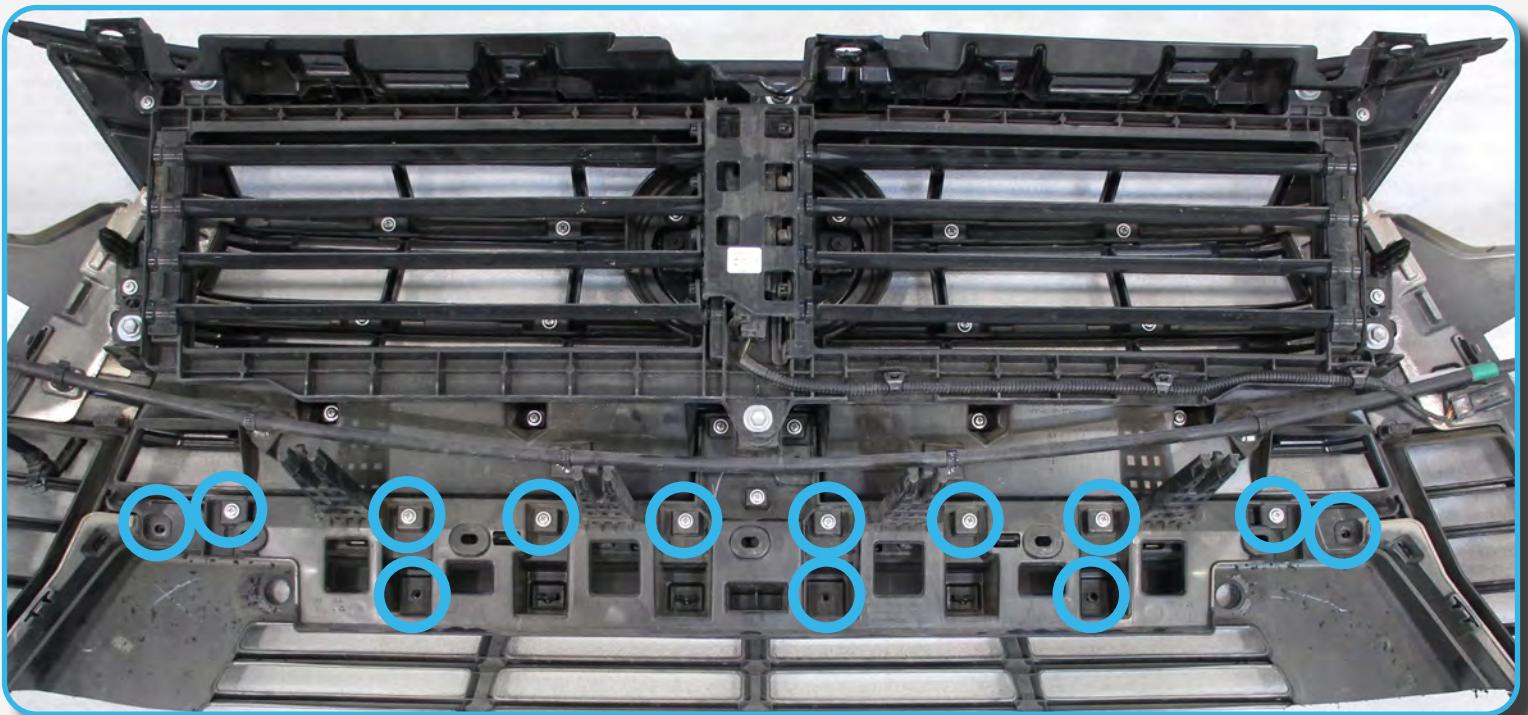
STEP 24

Cut the bottom fin as shown below.



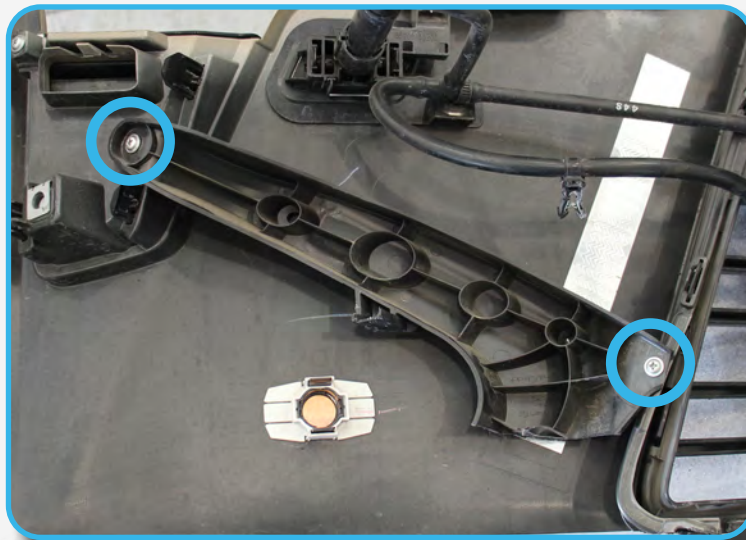
□ STEP 25

To remove the center plastic that was retaining the center parking sensors, remove the highlighted screws shown below using a (Philips Head Screwdriver).



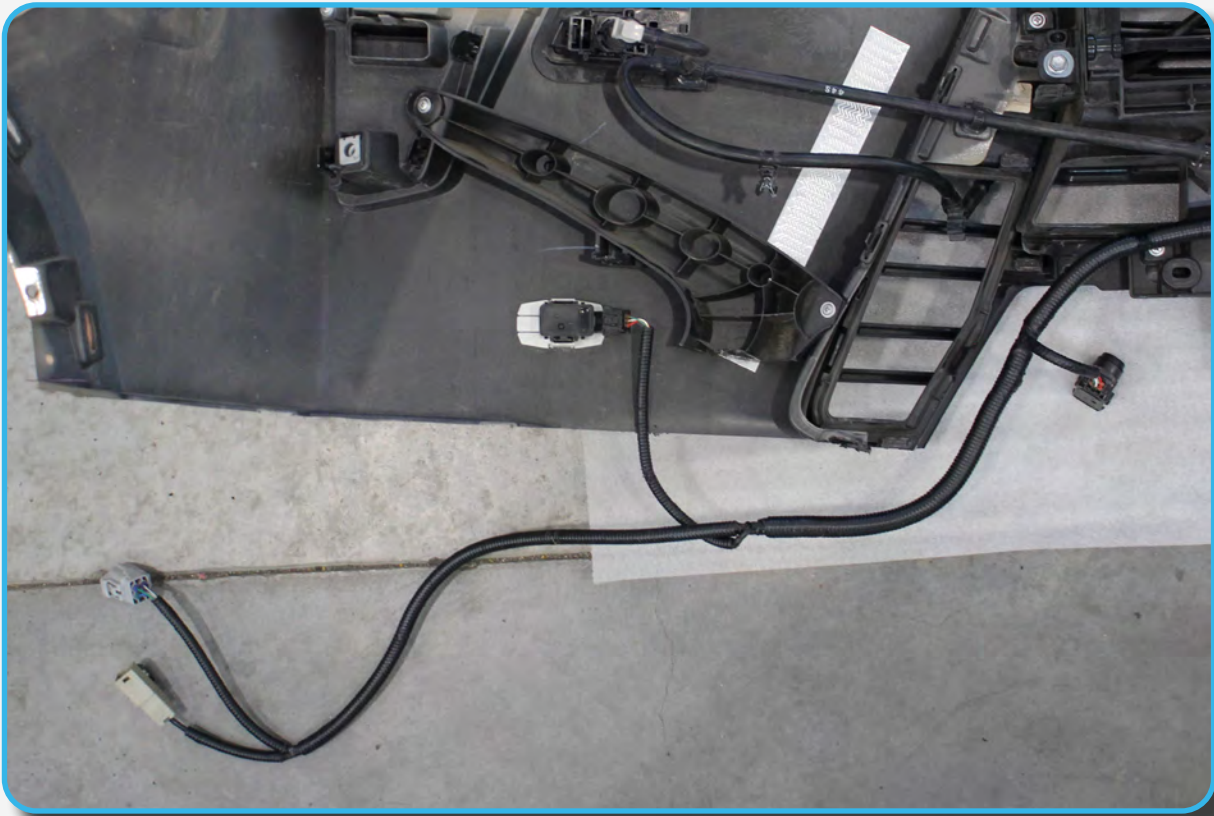
□ STEP 26

With the braces removed from **step 21**, cut the bottom section as shown below but still being able to utilize the top two mounting holes. Next, re-install to the grill assembly as shown below.



STEP 27

Re-install the outer parking sensors into the bezels.



□ STEP 28

With a helping hand, install the grill assembly back to the vehicle and repeating steps 2-6 & 12-14.



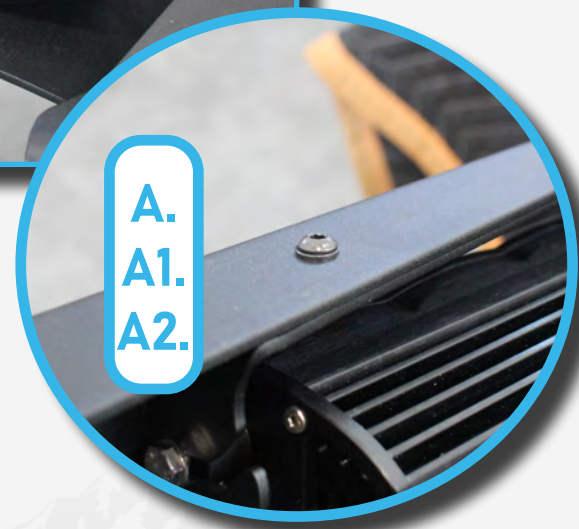
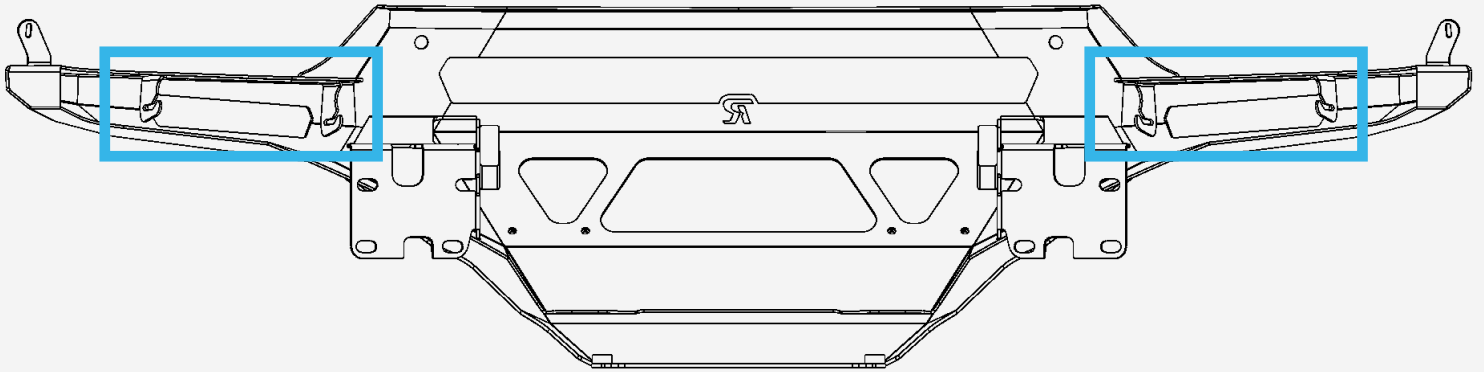
□ STEP 29

Install your winch into the winch mount and with a helping hand, install the winch plate to the vehicle with the provided **(B, B1, B2)** 1/2 hardware using a (3/4 socket/wrench). Install only the bottom and center hole on the top.



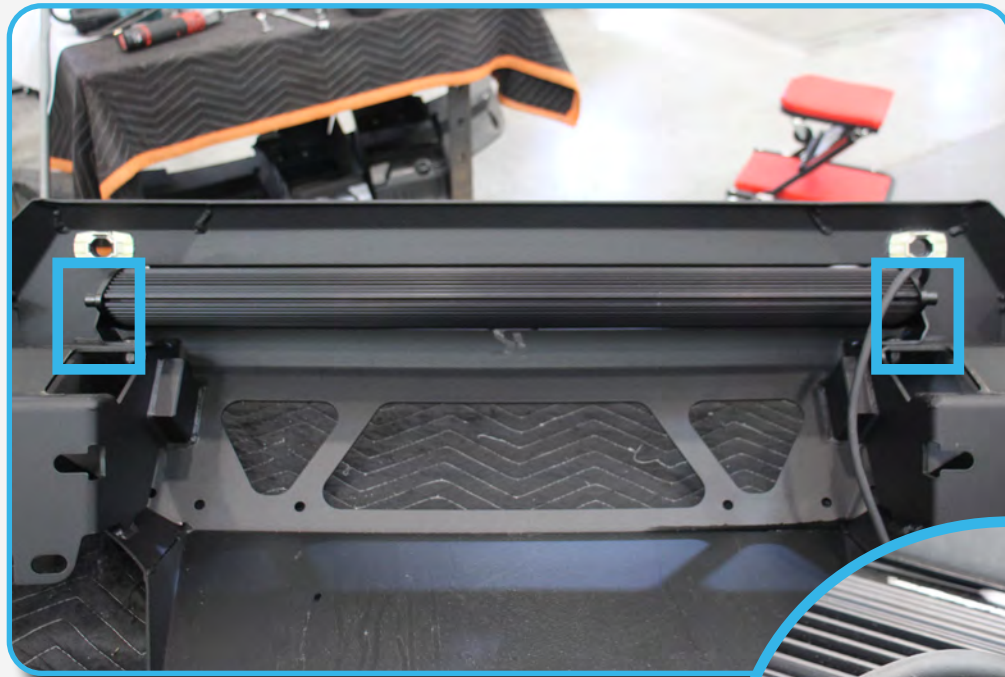
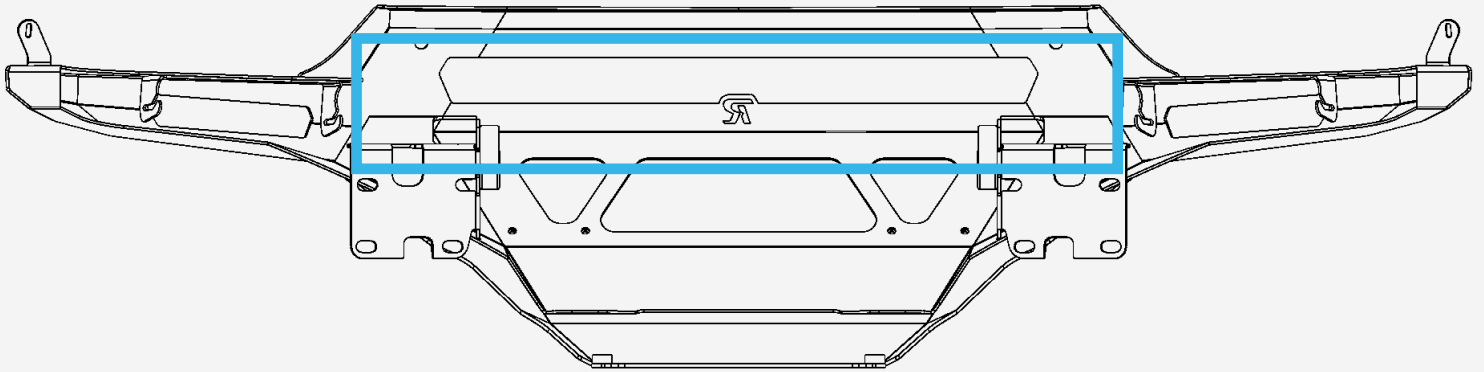
□ STEP 30

Now would be a good time to install your lights with the 10" light brackets (G) into the bumper with the provided (A, A1, A2) 1/4" hardware using a (5/32 allen) and a (7/16 wrench).



□ STEP 31

Install the light bar to your bumper with the provided (F) light brackets with the provided (C, C1, C2) 3/8" hardware using a (9/16 wrench).





STEP 32

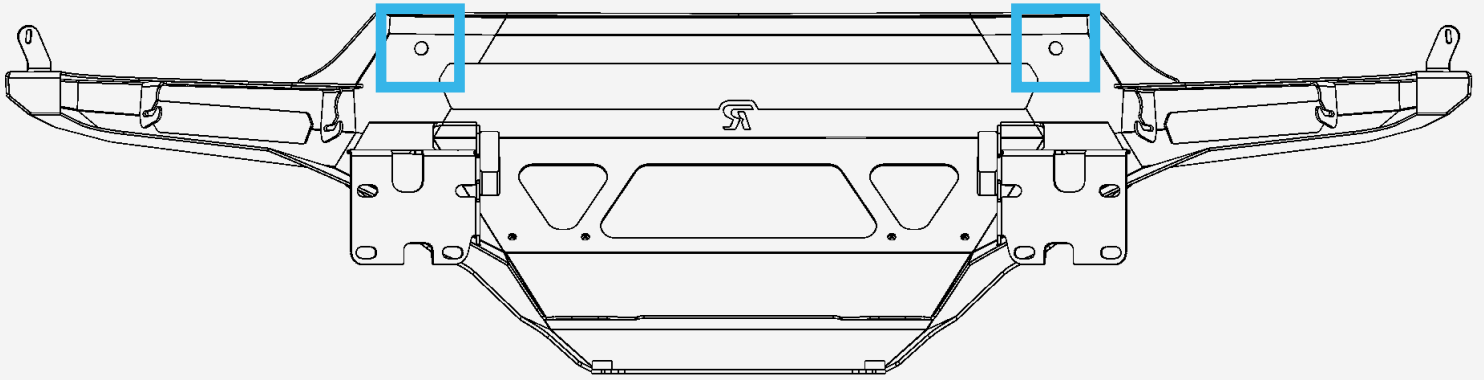
Remove double sided tape from the bezel until the surface is clear of residue.

Tec tip: Use a razor blade or brake clean to remove adhesive.



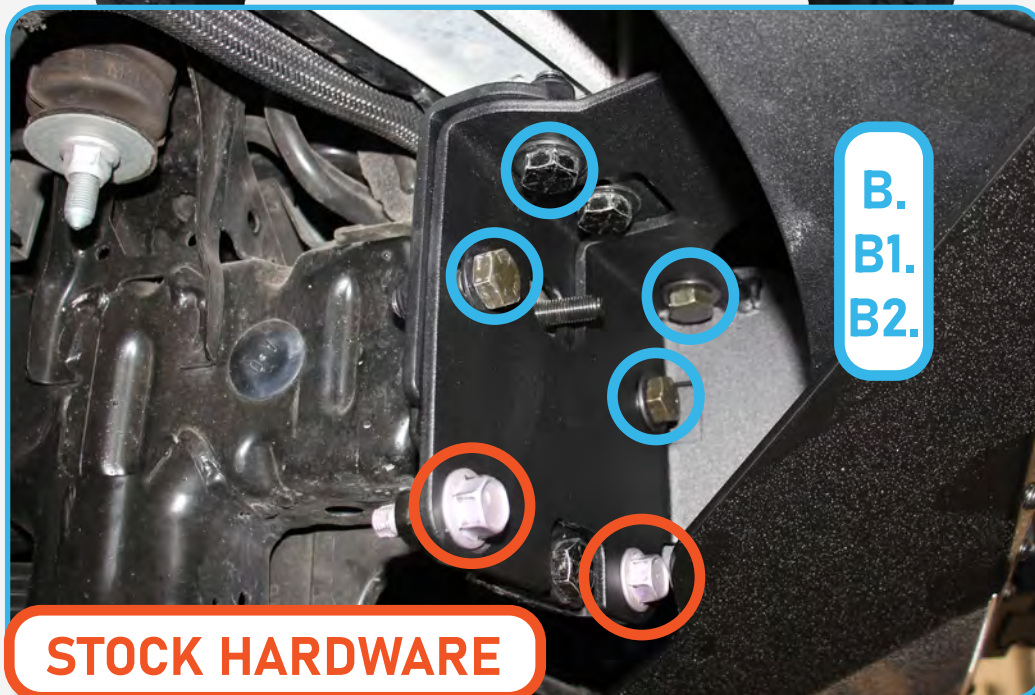
□ STEP 33

Install the center sensor bezels into the bumper as shown below using (super glue) or a glue of your choice.



□ STEP 34

With a helping hand install the full width front bumper as shown below with the stock hardware remove from **step 16** using a (17mm socket). Next install the provided (**B, B1, B2**) 1/2" hardware using a (3/4 socket/wrench).



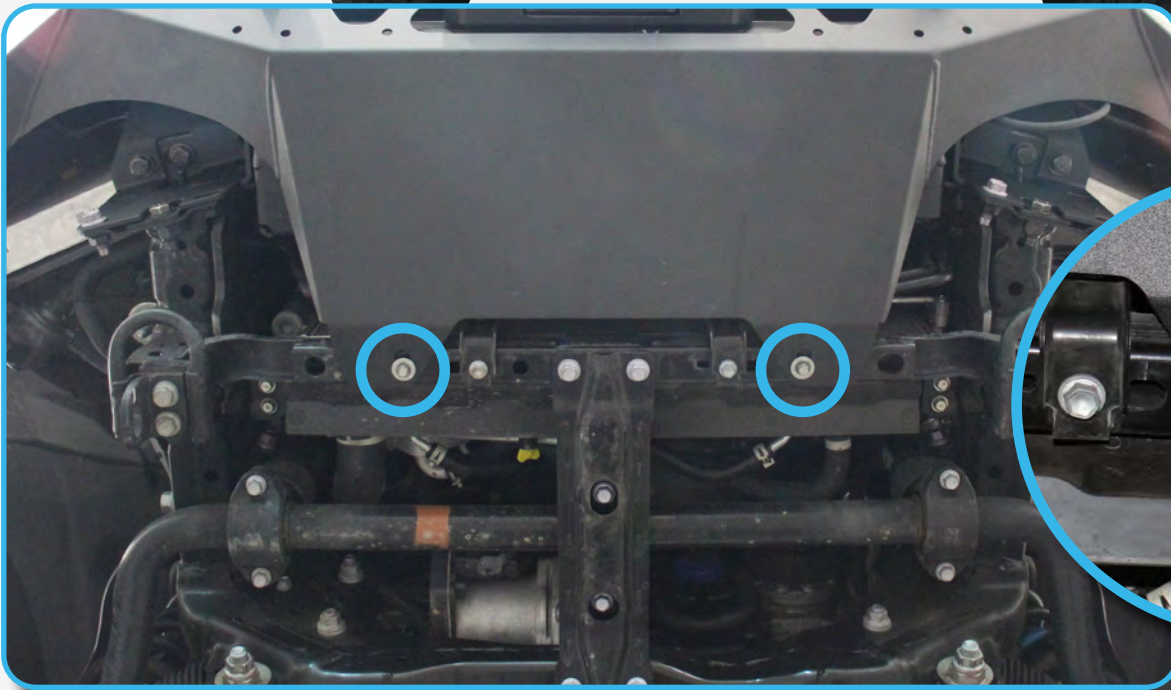
□ STEP 35

If you are not happy with the fitment, remove the bumper and sand down to your desired fitment. If you are happy with your fitment, install the center parking sensors into the bezels glue in on **step 33**.



STEP 36

Install the lower bolts removed from **step 9** using a (10mm socket).



□ STEP 37

Using a (Rivet Nut Hand Tool) install the provided (A2) 1/4" rivet nut into the holes on the front face of the bumper. Next, install the provided (A, A1) 1/4" hardware into the rivet nuts using a (5/32 allen).



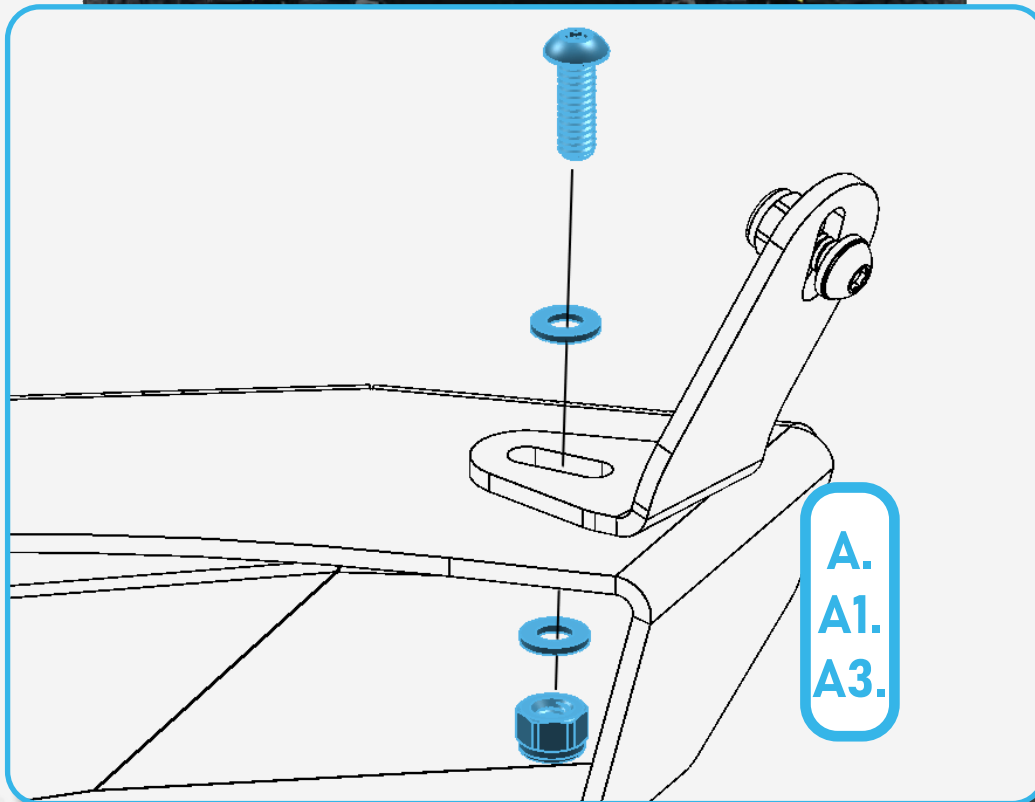
STEP 38

Using a (Razor Blade) cut the fender liner to your desired length.



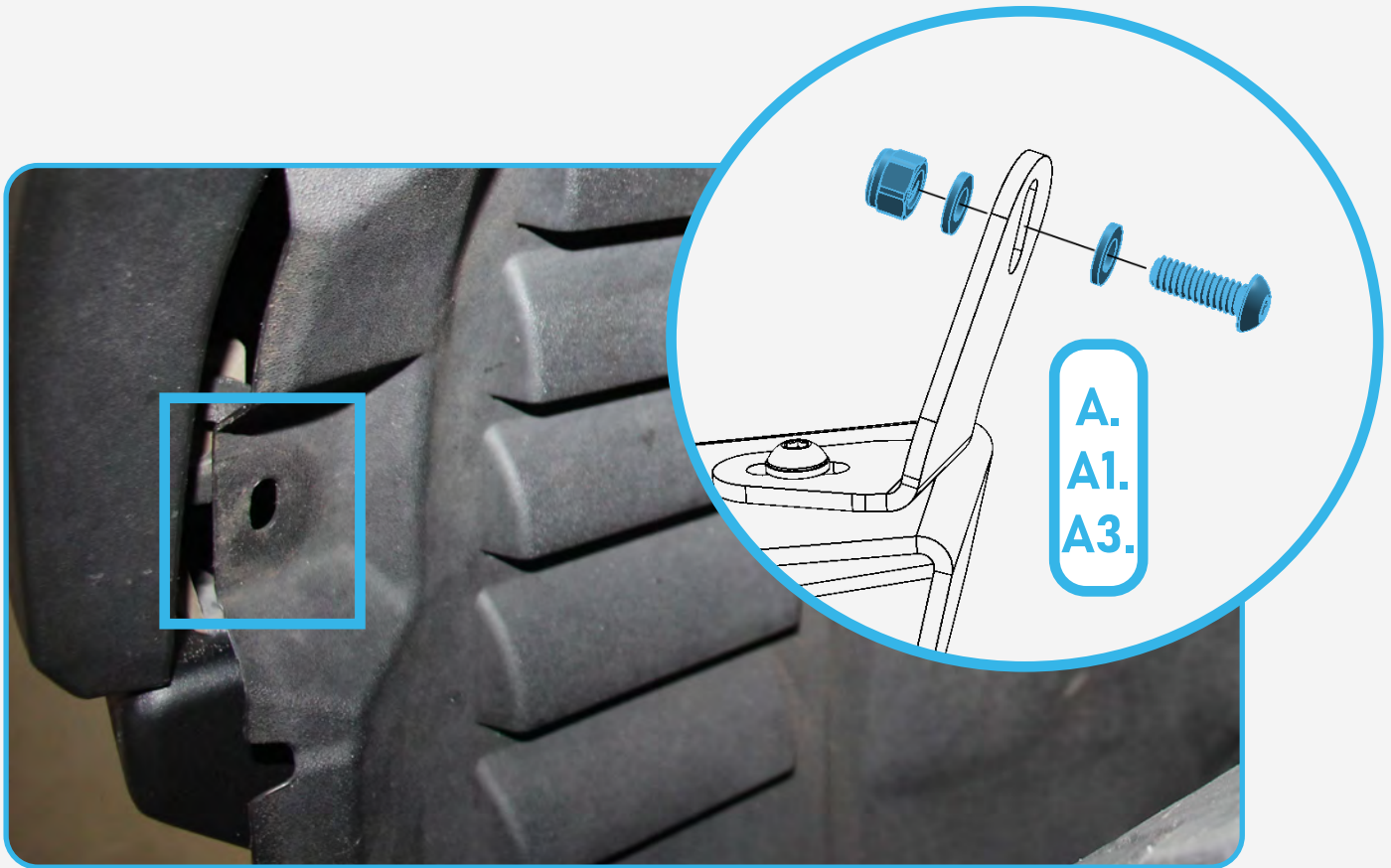
STEP 39

Install the provided (E) support bracket to the end of the wings on the bumper with the provided (A, A1, A3) using a (5/32 allen) and a (7/16 wrench).



□ STEP 40

Install the provided (A, A1, A3) 1/4" hardware into the fender liner hole highlighted below using a (5/32 allen) and a (7/16 wrench).



STEP 41

Plug in the main harness on both driver and passenger side.



STEP 42

Stand back and enjoy your new RAGO Full Width Front Bumper.

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

