



## 4078 – 2013-PRESENT, FORD TRANSIT, FLOATING LIGHT MOUNT

Version 1.1

### General Notes

- For the most up to date and current instructions, please visit our website at [www.vancompass.com](http://www.vancompass.com)
- Please read all instructions thoroughly before starting installing Van Compass products.
- This is a bolt on light mount that can be installed with simple hand tools and some basic plastic cutting tools.
- This light mount is rated to hold lights which weigh no more than 7 lbs / unit
- Removal and trimming of the plastic grill is required for 2013-2019 grills, cab & chassis “honeycomb” style grills and other aftermarket grills for installation.
- 2020+ models with standard grills will require no grill trimming for installation.
- 2020+ models with the Transit “Trail” grill will require no trimming with the 4078-TR light mount.
- The following instructions documents the installation of Baja Designs LP9 lights on a 2015 Transit T-250 with the 3.5L Ecoboost motor. Some aspects of installation will vary depending on year, chassis / engine configuration.
- Note, this floating light mount is compatible with all other Van Compass front end accessories.

### Parts List

#### 4078 – 2013-PRESENT, FORD TRANSIT, FLOATING LIGHT MOUNT

- (2) 407801 FORD TRANSIT, FLOATING LIGHT MOUNT, CHASSIS BRACKETS
- (6) PP-M08-14 PUSH PIN FENDER CLIP, 8MM HOLE X 14MM LONG
- (2) HM8-1.25-30-8.8 M8-1.25 X 30MM LONG, HEX HEAD BOLT
- (2) WF-M8 M8 FLAT WASHER, CLEAR ZINC PLATED
- (2) MC5-10-03 MACHINE SCREW, 10-24 X ¾” LONG, CLEAR ZINC
- (2) NNC-10-24 10-24 NYLOCK NUT, CLEAR ZINC
- (2) WF-10-24 FLAT WASHER, MACHINE SCREW #10, CLEAR ZINC
  
- (1) 407802 FORD TRANSIT, FLOATING LIGHT MOUNT, MAIN BRACKET
- OR
- (1) 4078-TR FORD TRANSIT, FLOATING LIGHT MOUNT, MAIN BRACKET (TRAIL GRILL)

### Tools Needed

- Measuring tape
- Combination Square / ruler
- Torque wrench
- Plastic cutting tool

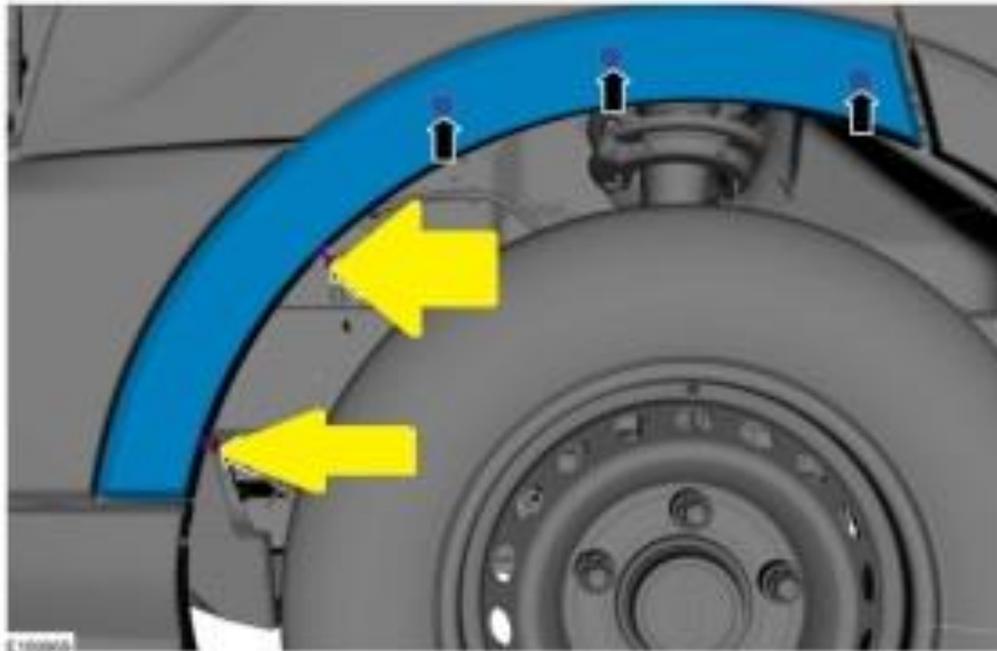
- 3" pneumatic cut off tool or Dremel style tool
- Die grinder with drum sander / burr bit or Dremel style tool (for detail plastic grill material removal)
- Small Pneumatic jig saw or similar (Optional)
- Automotive trim removal tools
- Simple hand tools:
  - Basic wrench and socket set:
    - Metric Sizes: 10mm, 13mm
    - Torx sizes: T-25, T-30

### Approximate Installation Time

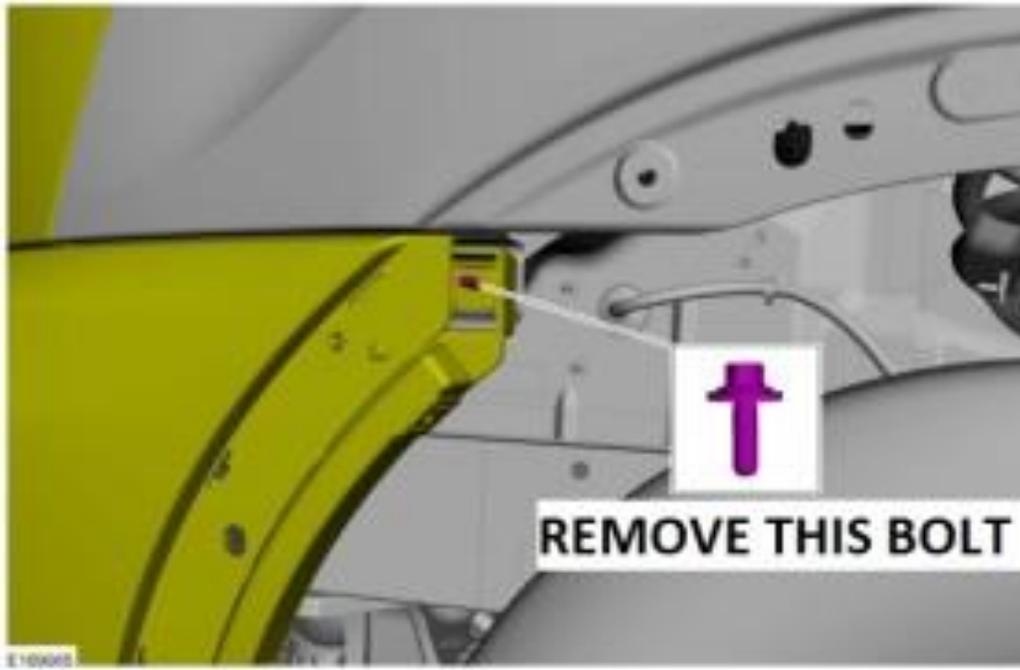
- 3-4 hours for installation. (Does not include time to wire the lights as this will vary depending on light mfg and personal preference)

### Installation

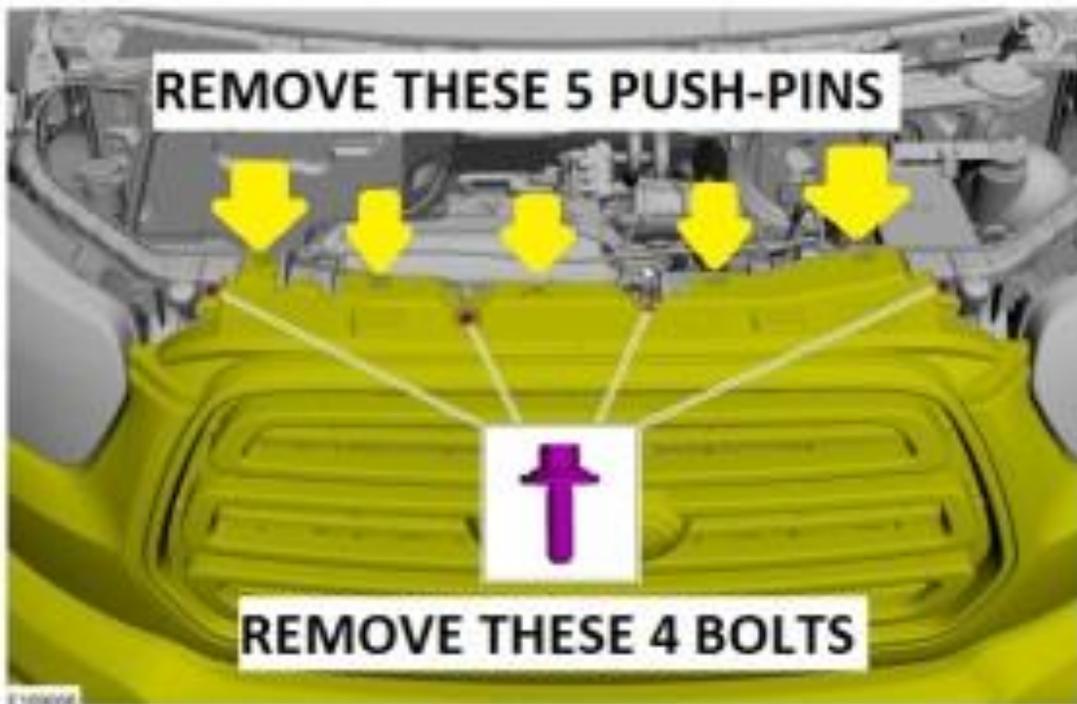
- 1) Note; retain all OEM hardware removed as it will be re-installed during re-assembly.
- 2) Begin by removing the front fender trim piece on both sides of the vehicle. Remove the two pull pins towards the front of the wheel well using an automotive trim removal tool under the head of the pin. Denoted by the yellow arrows in the image below.



- 3) Using the above image as a reference, try to locate and pry free the three remaining push pins securing the fender trim to the fender denoted by the black arrows above.
  - a. Note, these pins will likely break. Included in your tow point kit are replacement pins if needed.
- 4) Begin removing the front bumper cover by locating the two screws at the inside of the fender well where the fender and bumper meet. Use a 10mm socket / wrench for removal. Remove the bolt on both sides of the vehicle.

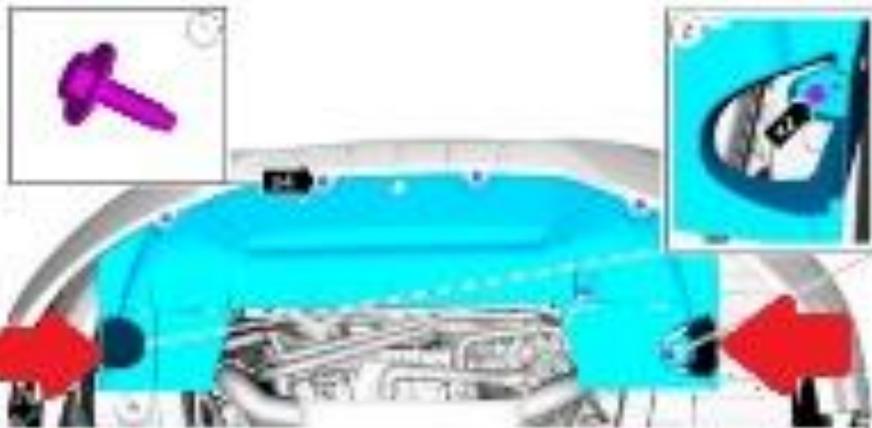
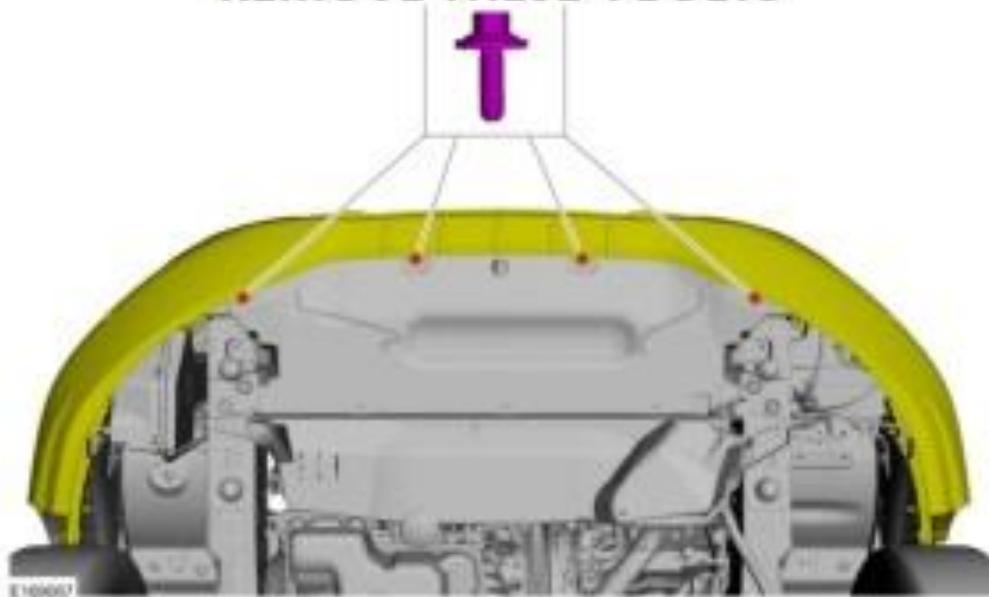


- 5) Open the hood of the vehicle and locate the 4 bolts securing the top portion of the grill to the core support of the vehicle. Remove all 4 bolts using a 10mm socket / wrench.
  - a. Once all 4 bolts have been removed, locate and remove the 5 push-pin fasteners securing the grill to the core support using an automotive trim removal tool.



- 6) Remove the lower air damn on the underside of the bumper by locating the 6 bolts securing the lower air damn to the vehicle.
  - a. There are 4 bolts towards the front which connect the bumper cover to the air damn and 2 additional bolts securing the air damn to the chassis itself. See image below for reference. Remove these 6 bolts using a 10mm socket / wrench.

**REMOVE THESE 4 BOLTS**

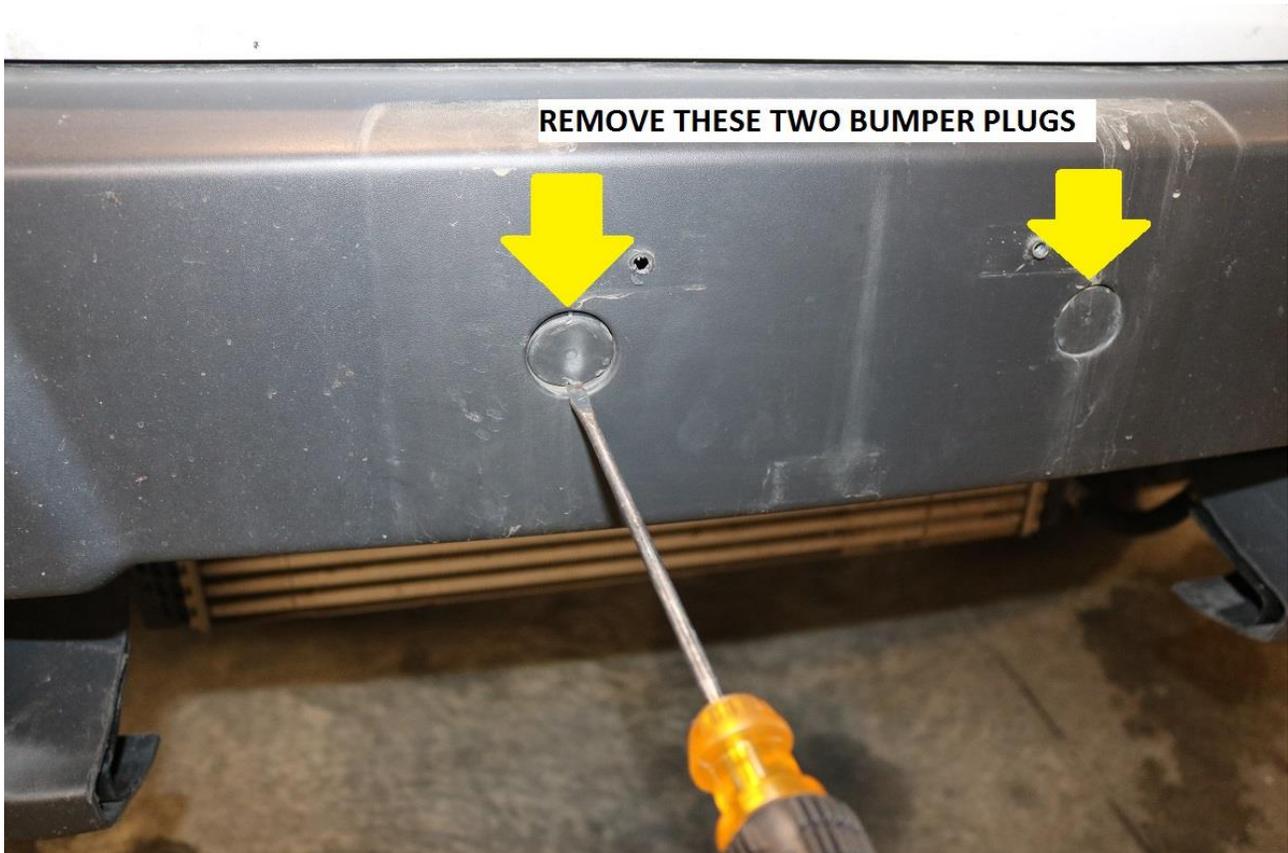


**REMOVE THESE 2 BOLTS**

- 7) Next, remove the front license plate mount if equipped. On this vehicle, the license plate mount was secured with two 5/16" bolts.

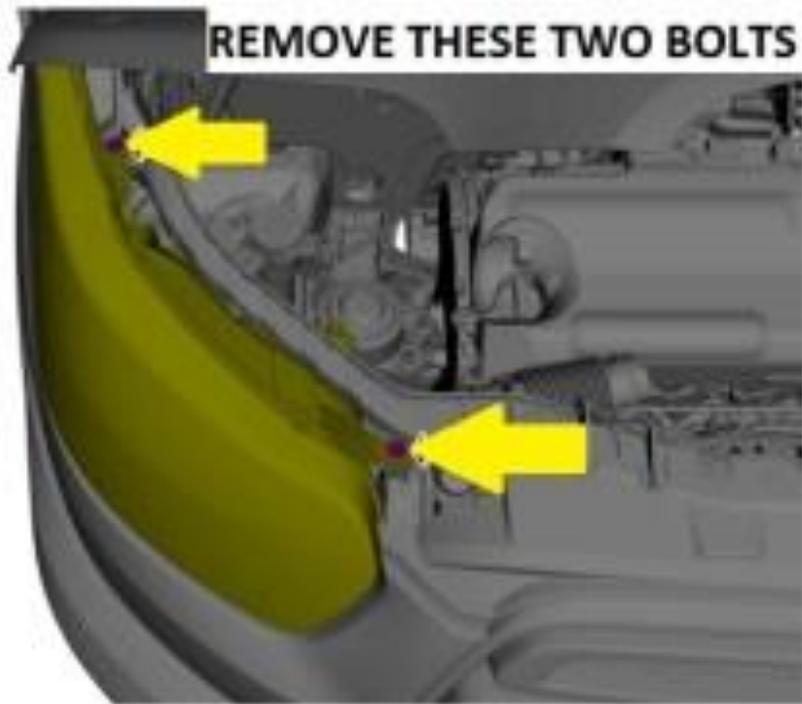


- 8) Remove the two bumper plugs using a small flat blade screwdriver.

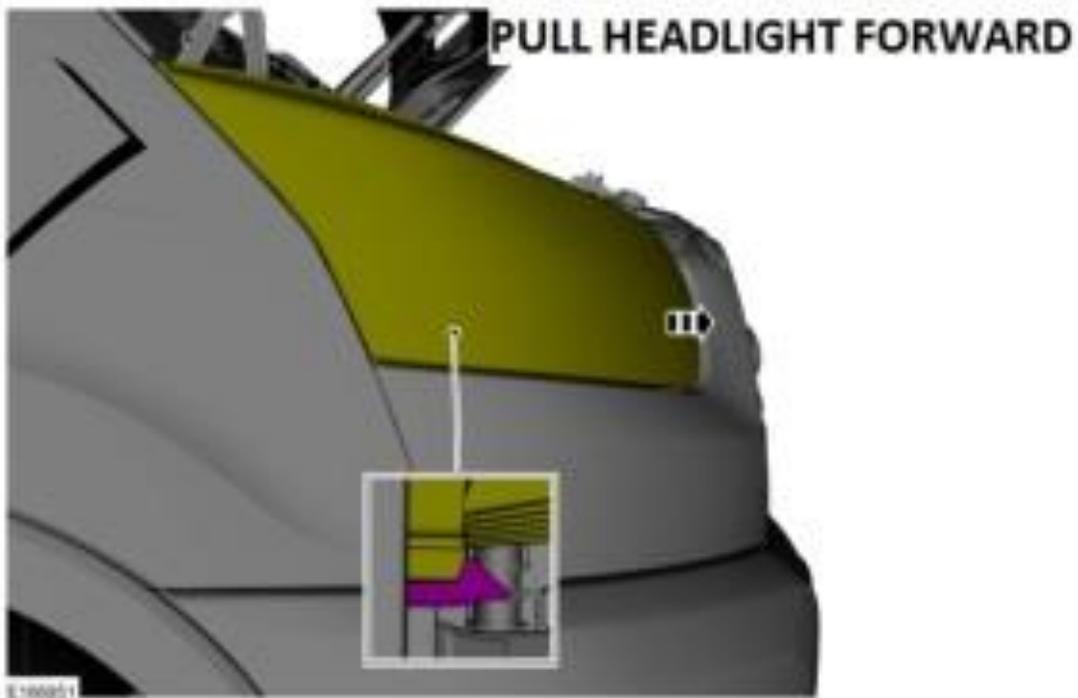


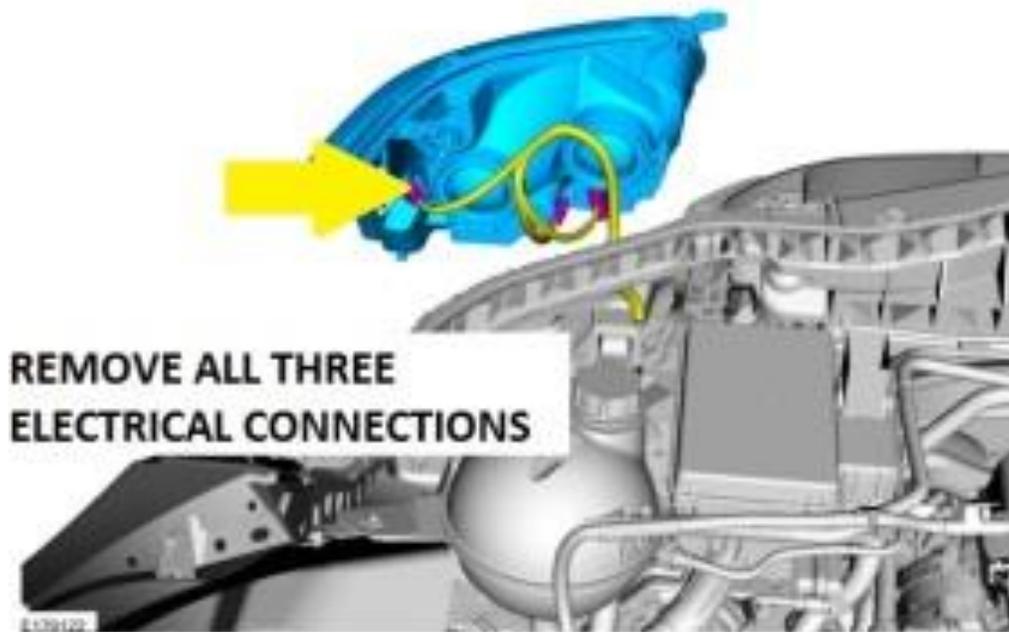
- 9) Remove the two bolts behind the bumper plugs. Use a 13mm socket / wrench for removal.

10) In the engine compartment, locate the two torx bolts securing the headlight housings to the vehicle. Use a T-30 torx bit for removal.



11) Pull the headlight forward and free it from the clips securing it to the vehicle. Once the headlight is free from its mounting clips, undo the three electrical connectors and completely remove the headlight housing from the vehicle.

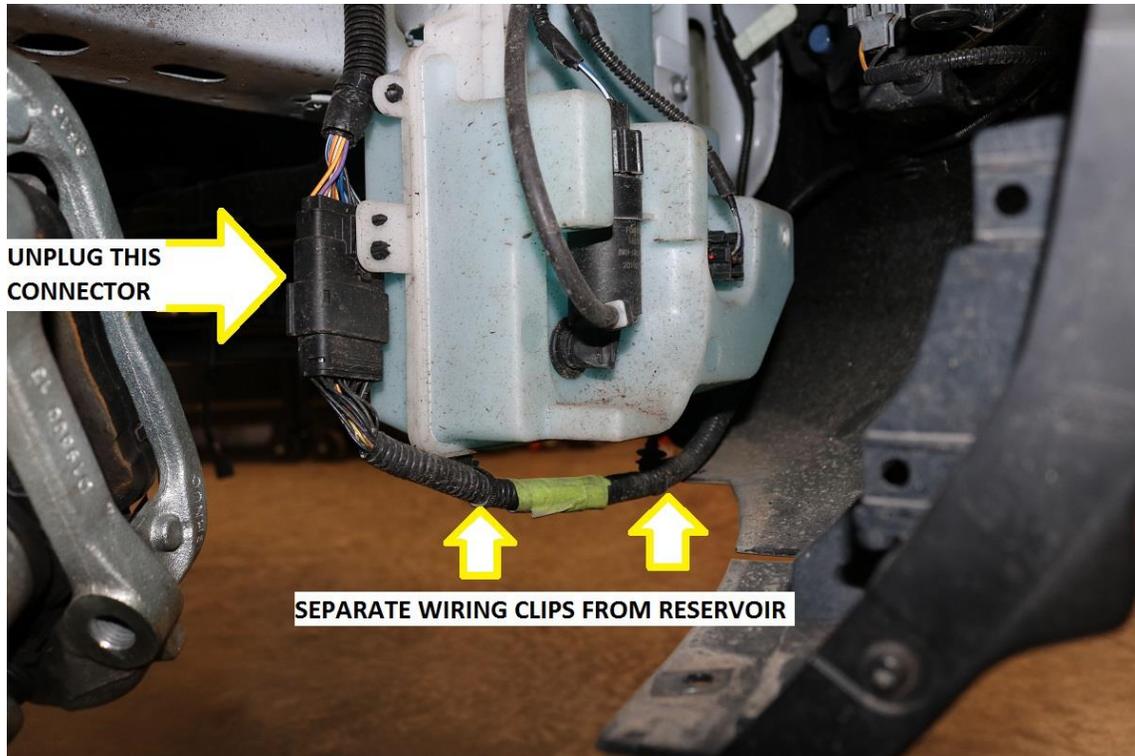




- 12) Locate the two T-25 torx screws under the headlight housing mounting location where the front bumper cover meets the fender. Remove both screws on each side of the vehicle.
- Once the torx screws are removed, pull the black plastic clip brackets which sandwich the bumper cover to the front fenders.
  - Pull the front bumper corners outwards to separate the retention clips securing the sides of the bumper cover to the fenders.
  - See image below for reference.

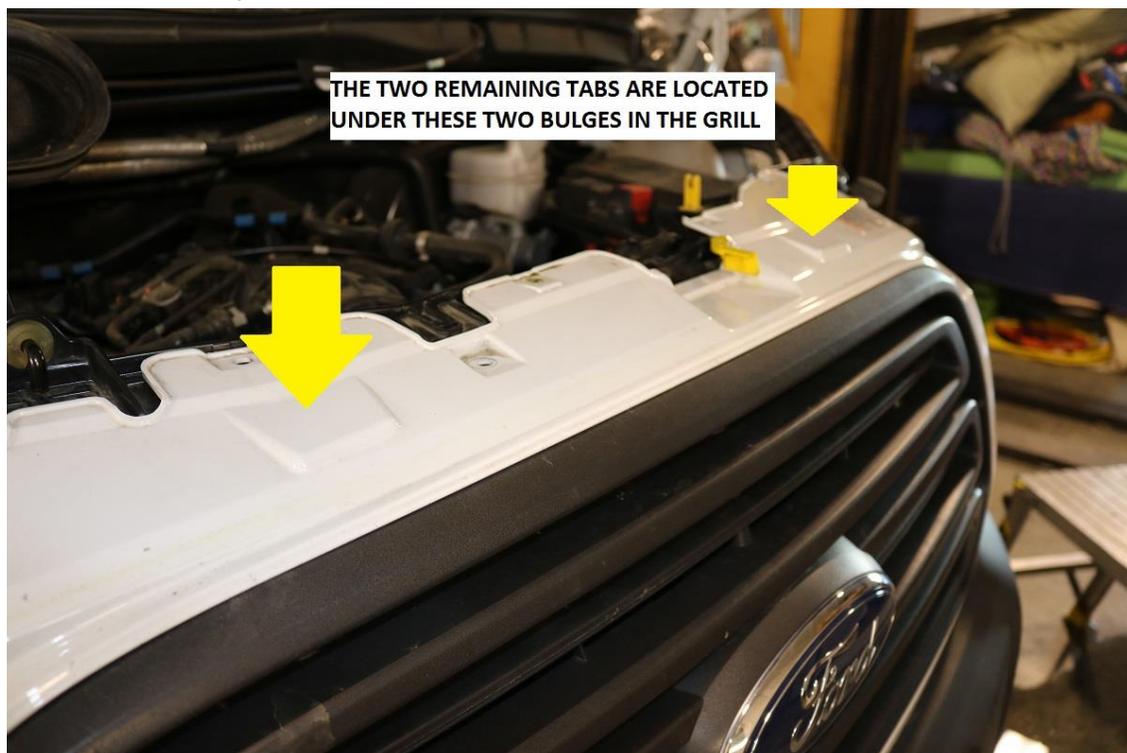


13) On newer models equipped with brake assist and / or front parking sensors, unplug and separate the bumper wiring in the front of the passenger wheel well near the windshield washer reservoir.



14) The last step in front bumper cover removal is to locate the 2 tabs along the top of the grill which secure the bumper cover / grill assembly to the core support. Use a large flat blade screw driver to pry the tabs free from the core support.

- a. Note the two bulges in the top of the grill; this is where the tabs are located.
- b. Reference the photo below for the locations of the 2 tabs.



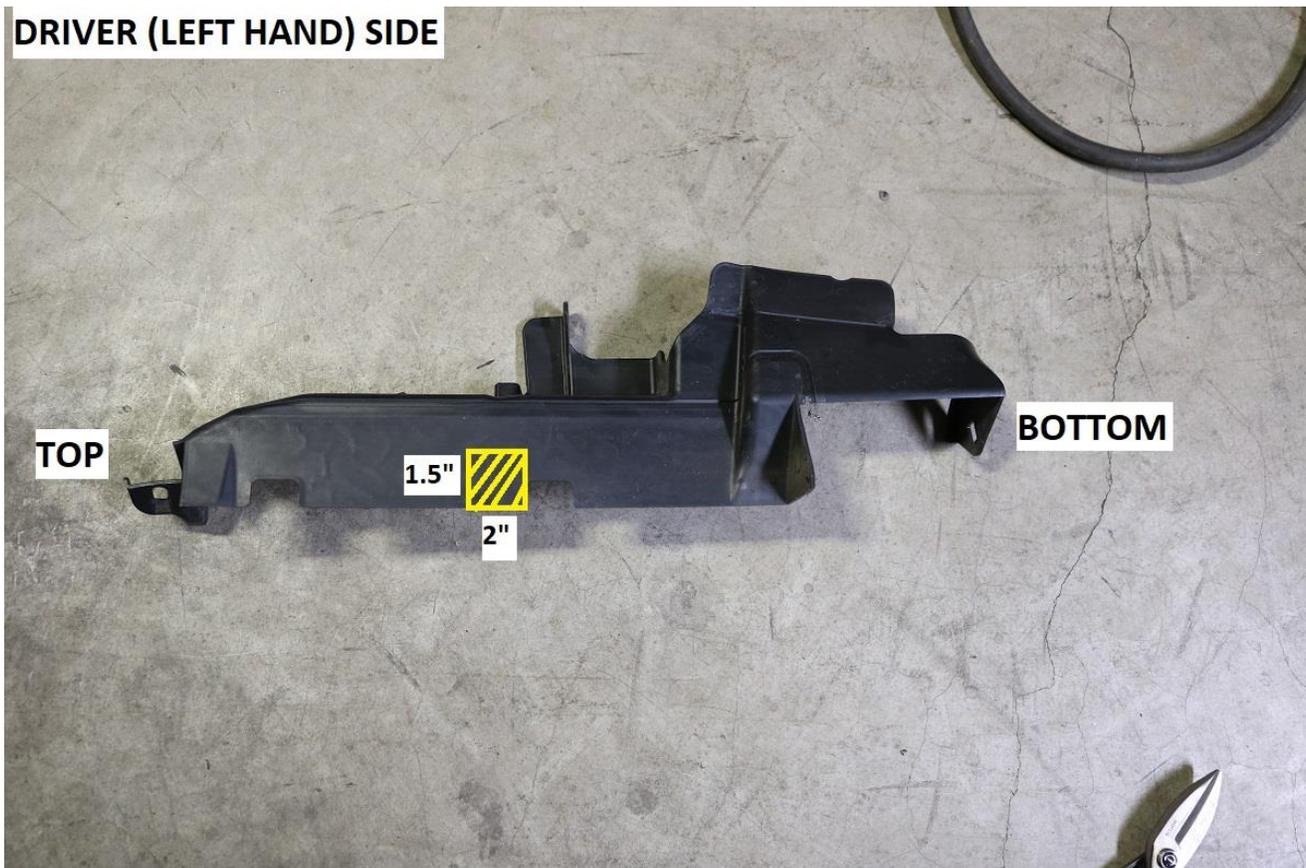
15) Remove the front bumper / grill assembly from the vehicle.

16) With the front bumper / grill removed. Remove the core support air damn pieces (if equipped) by locating the plastic barb clips securing each piece to the upper core support and front bumper. Note there are two barb clips per side. Use the image below for reference.



17) With the core support air damn pieces removed, trim them as shown in the images below. Use a pair of quality scissors or tin snips to trim the rubber / plastic.

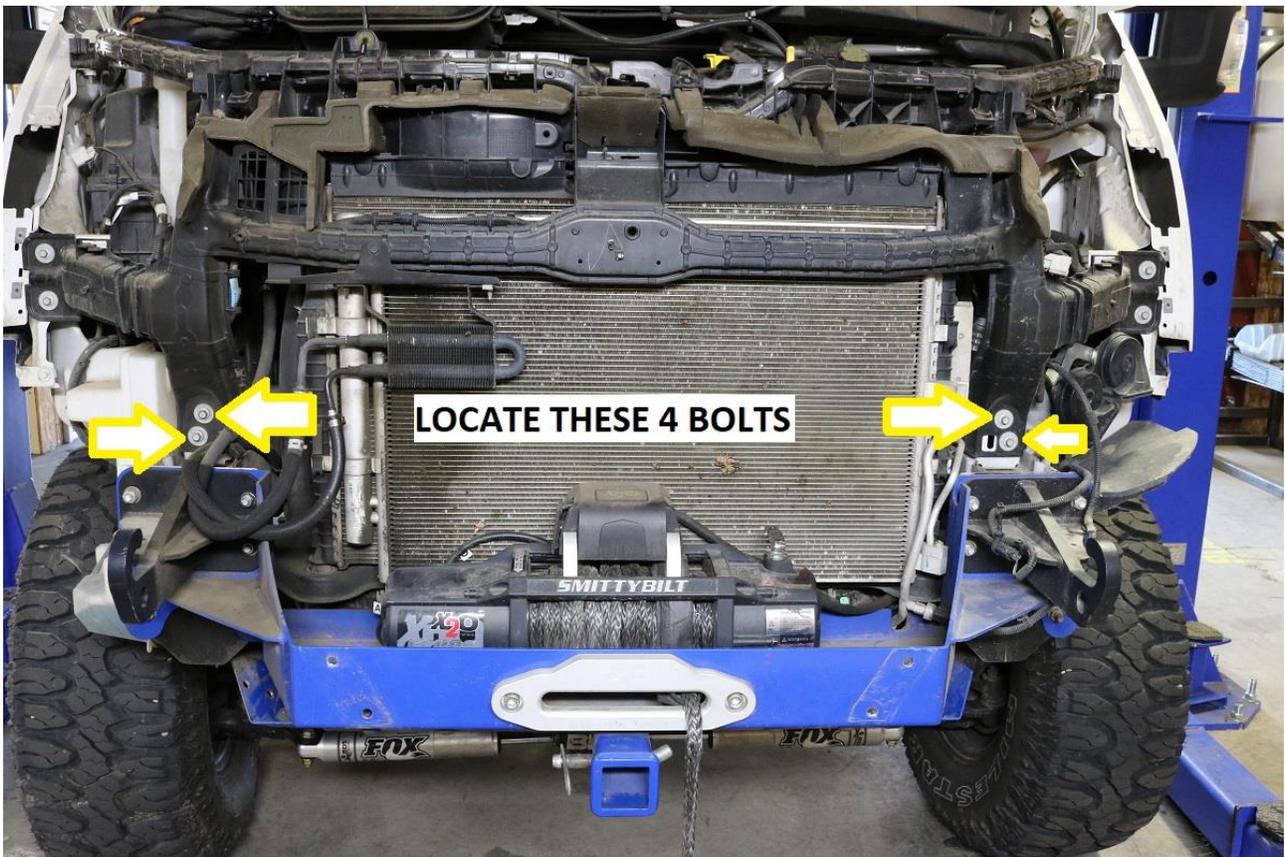
**DRIVER (LEFT HAND) SIDE**



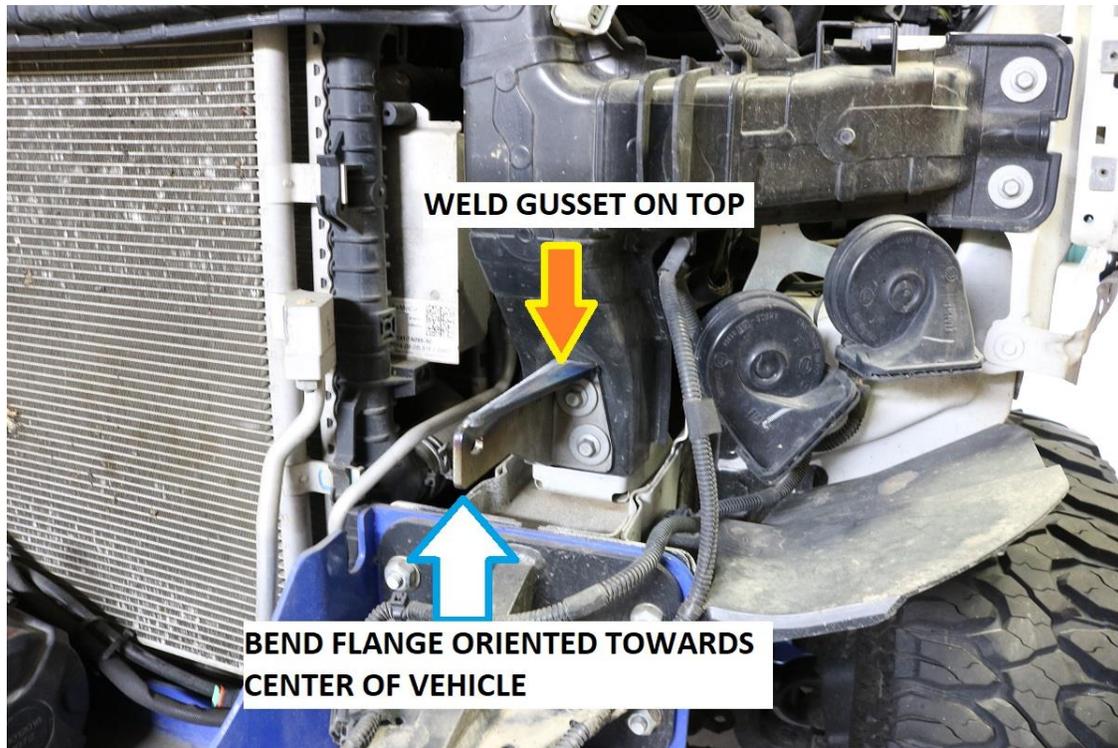
**PASSENGER (RIGHT HAND) SIDE**



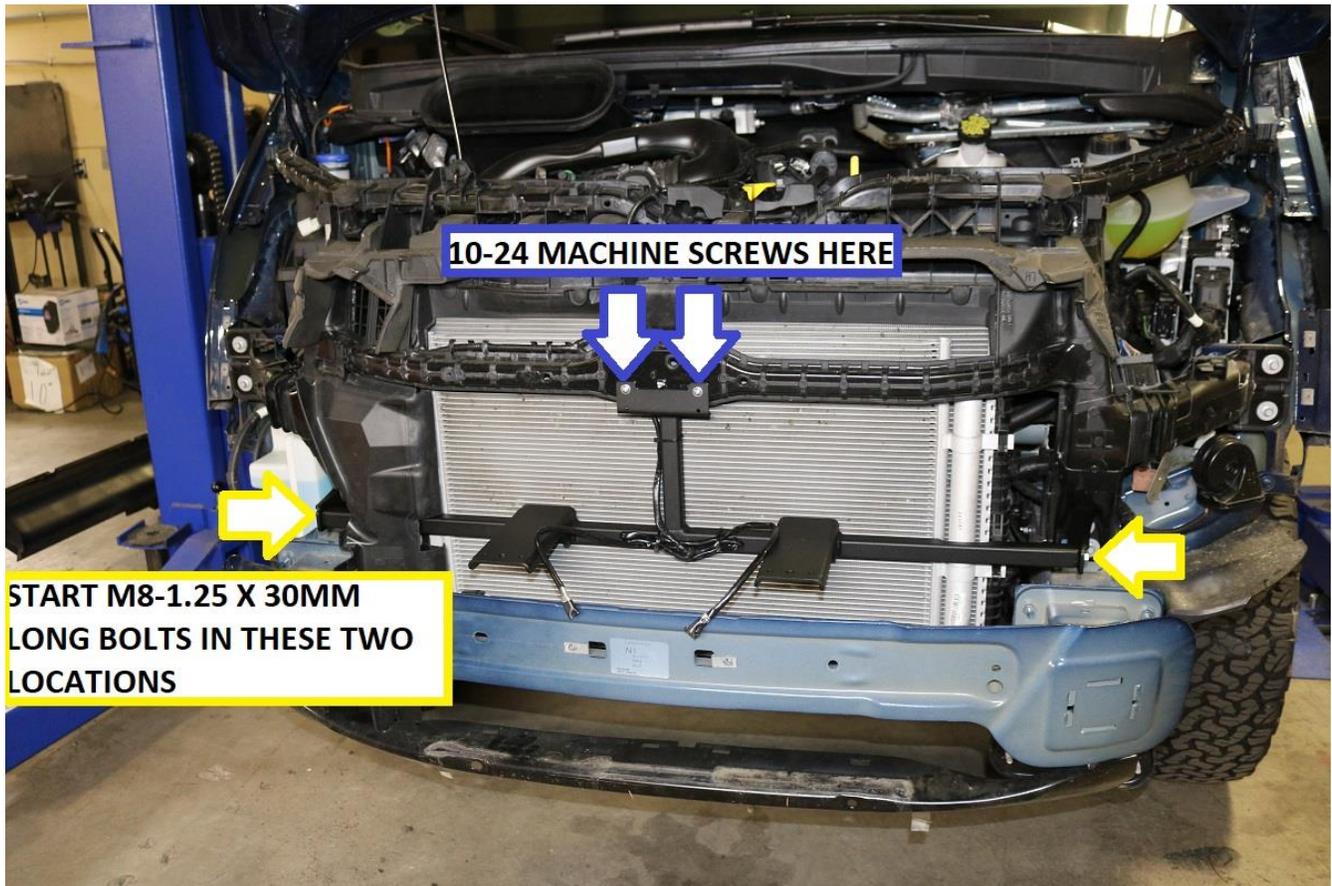
- 18) Once trimmed, re-install the passenger side (right hand) air damn. Do not install the driver side yet.
- 19) Locate the 4 M8 bolts securing the bottom of the core support to the chassis. See image below for reference.



- 20) Working on one side at a time. Remove the two bolts using a 10mm socket / wrench. Re-install the same bolts to secure the included 407801 Floating Light Mount Chassis brackets in this location.
- Note these brackets are left and right specific. They should be installed as shown below with the gusset on the top and the bend flange oriented towards the center of the vehicle
  - Tighten the OEM bolts just to the point where the chassis brackets and move still move slightly.



- 21) Install the brackets on both sides of the vehicle.
- 22) Fit the 407802 Main Bracket to the vehicle. Feed it through the trimmed air damn location on the passenger side. Install it behind the power steering cooler hoses on the passenger side. It should fit through any A/C condenser lines on the passenger side as well on 2020+ models.
- 23) Start the included M8-1.25 x 30mm long bolts through the chassis brackets into the threaded holes on the ends of the light mount crossmember. Use a lock washer under the bolt head, followed by a flat washer on each bolt. Simply start these bolts, do not fully tighten at this time.
- Install the included 10-24 machine screws into the upper mounting bracket through the factory holes on the core support. Use a washer under the screw head. Start an 10-24 nylock nut to hold in place.



24) Once all the hardware has been started, tighten hardware in the following hardware in the following order:

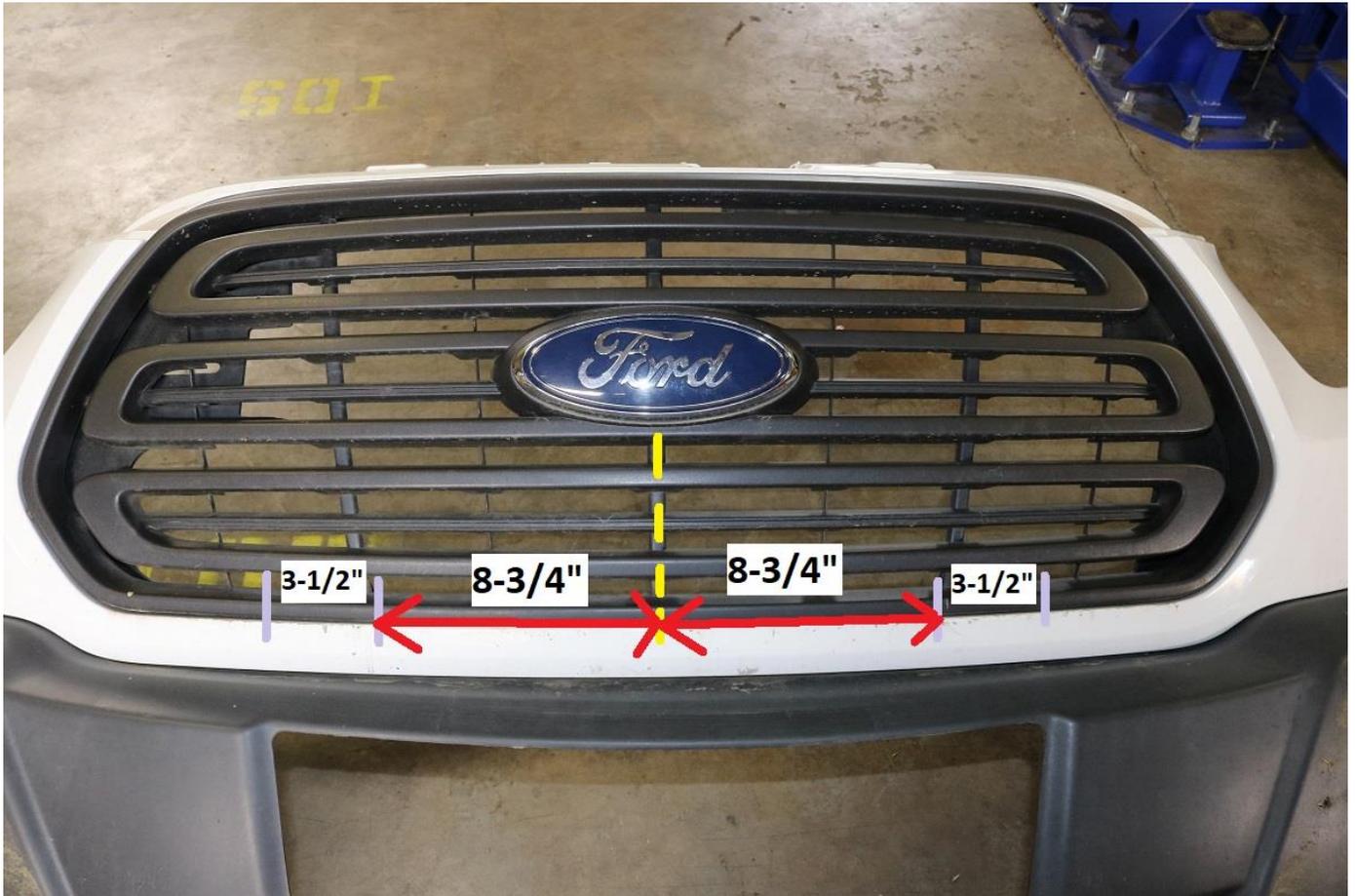
- a. 10-24 machine screws – simply snug with a standard #2 phillips screwdriver and 3/8" wrench
- b. OEM bolts securing chassis brackets to chassis – 10mm socket – 20 ft-lbs. (27 N.m)
- c. M8-1.25 x 30mm long light mount crossmember bolts – 13mm socket – 20 ft-lbs. (27 N.m)

25) If this is being installed on a 2020+ van with the standard grill, or a 2020+ with the Trail Grill now is the time to perform any preliminary wiring before re-installing the front bumper / grill. No trimming is needed for this van so begin the re-installation process of the bumper / grill using the reverse order of these instructions as a guide.

26) If this is being installed on a 2013-2019 van or any van equipped with the cab & chassis style honeycomb grill, then some grill trimming will be required at this point for re-installation. The remaining steps of the instructions will document grill trimming.

27) From the center rib of the grill, measure 8-3/4" over on each side. Mark a line. From there, mark an additional line 3-1/2" away. These are your two vertical cut lines.

- a. Trim the bottom plastic portions of the grill out so it appears as finished in the second photo.
- b. Be careful to only trim through the plastic. There are portions of metal behind the plastic that does not need to be cut. (Note, it is not a big deal if the metal ends up being cut, just be sure to touch up any exposed areas of metal with paint to prevent corrosion.)
- c. Use the following three images as a guide.





28) Test fit the trimmed grill to ensure it clears the light mount tabs. If everything clears, re-install the bumper / grill in the reverse order of removal.

Installation is Complete

#### RELEASE OF LIABILITY

I, the customer, do hereby release and forever discharge Van Compass LLC, their agents, employees, successors and assigns, and their respective heirs, personal representatives, affiliates, successors and assigns, and any and all persons, firms or corporations liable or who might be claimed to be liable, whether or not herein named, from any and all claims, demands, damages, actions, causes of action or suits of any kind or nature whatsoever, whether known or unknown, fixed or contingent, which I now have or may hereafter have or claim to have, as a result of or in any way relating to the following: Parts sold & installed by Van Compass LLC or parts sold & installed by end-user; any parts sold online, any parts sold online or installed by a re-seller, any parts installed by an installation shop.

It is understood and agreed that this payment is made and received in full and complete settlement and satisfaction of the aforesaid actions, causes of action, claims and demands; that this Release contains the entire agreement between the parties; and that the terms of this Agreement are contractual and not merely a recital. Furthermore, this Release shall be binding upon the undersigned, and his respective heirs, executors, administrators, personal representatives, successors and assigns. This Release shall be subject to and governed by the laws of the State of Idaho.

PRODUCT SAFETY WARNING:

Van Compass LLC strongly recommends the installation of products be done by a certified mechanic. If this does not occur, be certain the person(s) installing the product read, understand and follow all instructions and warnings pertaining to the application before installation. Do not add, alter, or fabricate any factory or aftermarket parts to increase vehicle height over the intended height of the Van Compass LLC product purchased. Mixing component brands is not recommended.

Installation of suspension lift kits or any other lifting kits or devices will raise the center of gravity. For this reason, Van Compass LLC urges that extreme caution be used when encountering driving conditions which may cause vehicle imbalance. Furthermore, the driver's field of vision and judgment will not be as good due to the height of the vehicle. Due to the installation of larger tires, the speedometer will read slower than the actual speed being traveled and more distance will be required to stop the vehicle. It is the owner's responsibility to caution and warn any potential driver of the vehicle about these driving and handling conditions. Van Compass LLC will not be held liable or responsible for damages or personal injuries resulting from the use of lifting devices and or related products. The tires and rims should be changed to sufficiently increase the vehicle's total overall width and stability to help accommodate lifting devices.

Van Compass LLC aftermarket suspension products and accessories modify a vehicle for uses which exceed conditions anticipated by the vehicle manufacturer. The uses include the high performance demands required during off-road. These conditions vary in the degree of extremity and cannot be controlled by the vehicle or product manufacturer. If the components within the suspension system or accessories become worn due to frequent and/or extreme use, the safety and reliability of the vehicle is at risk. The maintenance of aftermarket equipment to ensure the vehicle occupants safety is entirely your responsibility. Do not purchase Van Compass LLC products unless you are willing to accept this responsibility. Do not install any Van Compass LLC suspension products or accessories unless you feel competent at installing the product without causing present or future injury to yourself or other vehicle occupants; seek an authorized installation center.

Most states have some type of law limiting vehicle height. The amount of lift allowed, and how the lift can be achieved, varies greatly. Several states offer exemptions for farm and commercial registered vehicles. It is the vehicle owner's responsibility to check state and local laws to ensure that their vehicle will be in compliance. Van Compass LLC reserves the right to make changes in design, materials and specifications as deemed necessary without prior notice and without assuming obligation to modify any product previously manufactured. Obligation or liabilities will not be assumed with respect to similar products previously advertised.

This Release of Liability and Product Safety Warning has been read and fully understood by the undersigned and has been explained to me.