



4126 – 2023-PRESENT, RAM PROMASTER, WINCH MOUNT

Version 1.0

General Notes

- For the most up to date and current instructions, please visit our website at www.vancompass.com
- Please read all instructions thoroughly before starting installing Van Compass products.
- This is a bolt on front winch mount that can be installed with simple hand tools and drilling a couple additional holes in the chassis.
- Removal and trimming of the plastic front bumper cover is required for installation. Additional plastic trimming will be required on the grill and inner valence pieces for the winch / winch mount to be installed.
- This front winch mount can be completely removed and the factory front bumper can be re-installed if desired.
- The front license plate is not retained with this winch set-up; however the license plate can easily be relocated on the front bumper cover or there are reasonably priced license plate mount options available for both Hawse and Roller fairleads. For example;
 - Hawse fairlead: Tuffy Products Part Number: 333-01
 - Roller Fairlead: Smittybilt Part Number: 4432
- This front hitch is rated to hold a maximum static weight of 300 lbs.
- The following instructions do not cover wiring of the winch. Refer to the instructions included with your winch manufacturer for details regarding winch wiring.
- This winch mount is designed around the Warn M8000 winch (Warn Part Number 26502). There are other winches compatible with this winch mount but they must be similar in size to the M8000. The Superwinch Tiger Shark 9500SR & 11500 SR winch also fits and is documented in these instructions.

Parts List

4126 – 2013-PRESENT, RAM PROMASTER, FRONT WINCH MOUNT

- | | |
|------------------|---|
| • (1) 4126-01 | RAM, WINCH MOUNT |
| • (1) 4126-02 | RAM, WINCH MOUNT, DRIVER SIDE RE-ENFORCEMENT BRACKET |
| • (1) 4126-04 | RAM, WINCH MOUNT, PASS SIDE RE-ENFORCEMENT BRACKET, OUTER |
| • (1) 4126-04-02 | RAM, WINCH MOUNT, PASS SIDE RE-ENFORCEMENT BRACKET, INNER |
| • (1) 4061-05 | RAM, WINCH MOUNT, POWER STEERING RELOCATION BRACKET |
| • (1) 4126-06 | RAM, WINCH MOUNT, FAIRLEAD RADAR SENSOR PLATE |
| • (1) 4061-07 | RAM, WINCH MOUNT, RADAR SENSOR HOUSING |
| • (7) HC8-7-10 | 7/16-14 X 1.0" LONG, HEX HEAD BOLT |
| • (4) HC8-7-12 | 7/16-14 X 1.50" LONG, HEX HEAD BOLT |
| • (11) NNC-7 | 7/16-14 NYLOCK NUT |
| • (22) WF8-7 | 7/16" FLAT WASHER |

- (1) HC5-6-10 3/8-16 X 1.0" LONG HEX HEAD BOLT
- (1) NNC-6 3/8-16 NYLOCK NUT
- (2) WF8-6 3/8" FLAT WASHER
- (3) BHCS02-20-SS ¼-20 X 1.0" LONG BUTTON HEAD SCREW
- (3) FNS-02 ¼-20 SERRATED FLANGE NUT
- (1) PS8-40 4' LOW PRESSURE POWER STEERING HOSE, ½" ID
- (4) HC-PS POWER STEERING HOSE CLAMP
- (2) HM12-1.75-30-10.9 M12-1.75 X 30MM LONG, HEX HEAD BOLT
- (4) PMC-10-03-BL BLACK NYLON MACHINE SCREW, 10-24 X ¾" LONG
- (4) PNC-10-24-BL 10-24 NUT, BLACK NYLON

Tools Needed

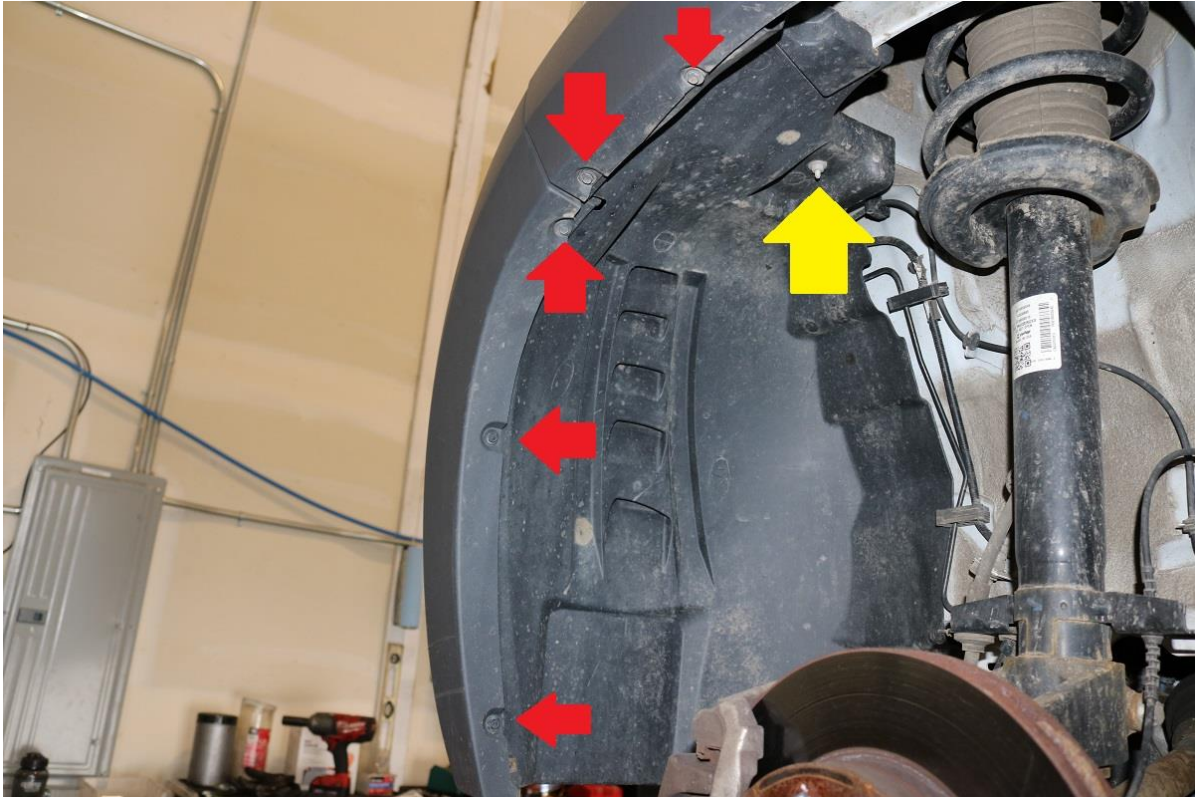
- Simple hand tools:
 - Basic wrench and socket set:
 - T30 Torx bit
 - Metric sizes: 8mm, 10mm, 13mm, 15mm,
 - Phillips screwdriver
- Automotive trim removal tool
- Floor jack and jack stands (optional but strongly recommended)
- Drill with quality ½" drill bit or step drill
- Cutting tool for plastic bumper trimming.
 - 4-1/2" angle grinder or 3" pneumatic cut off tool
 - Die grinder or Dremel style tool
 - Small pneumatic body saw or reciprocating saw for detailed plastic cutting / trimming.

Approximate Installation Time

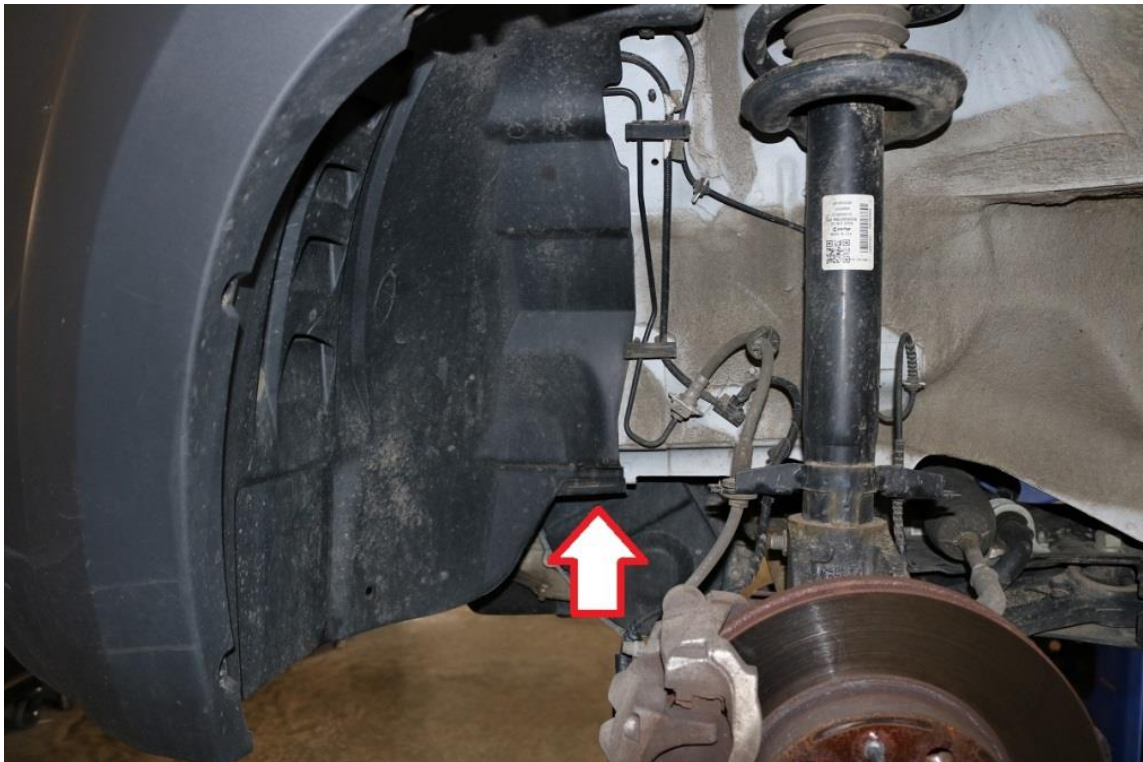
- 6-7 hours (Note-this is an estimated time frame depending on complexity of winch wiring. Some vehicles will be easier to wire the winch than others.)

Installation

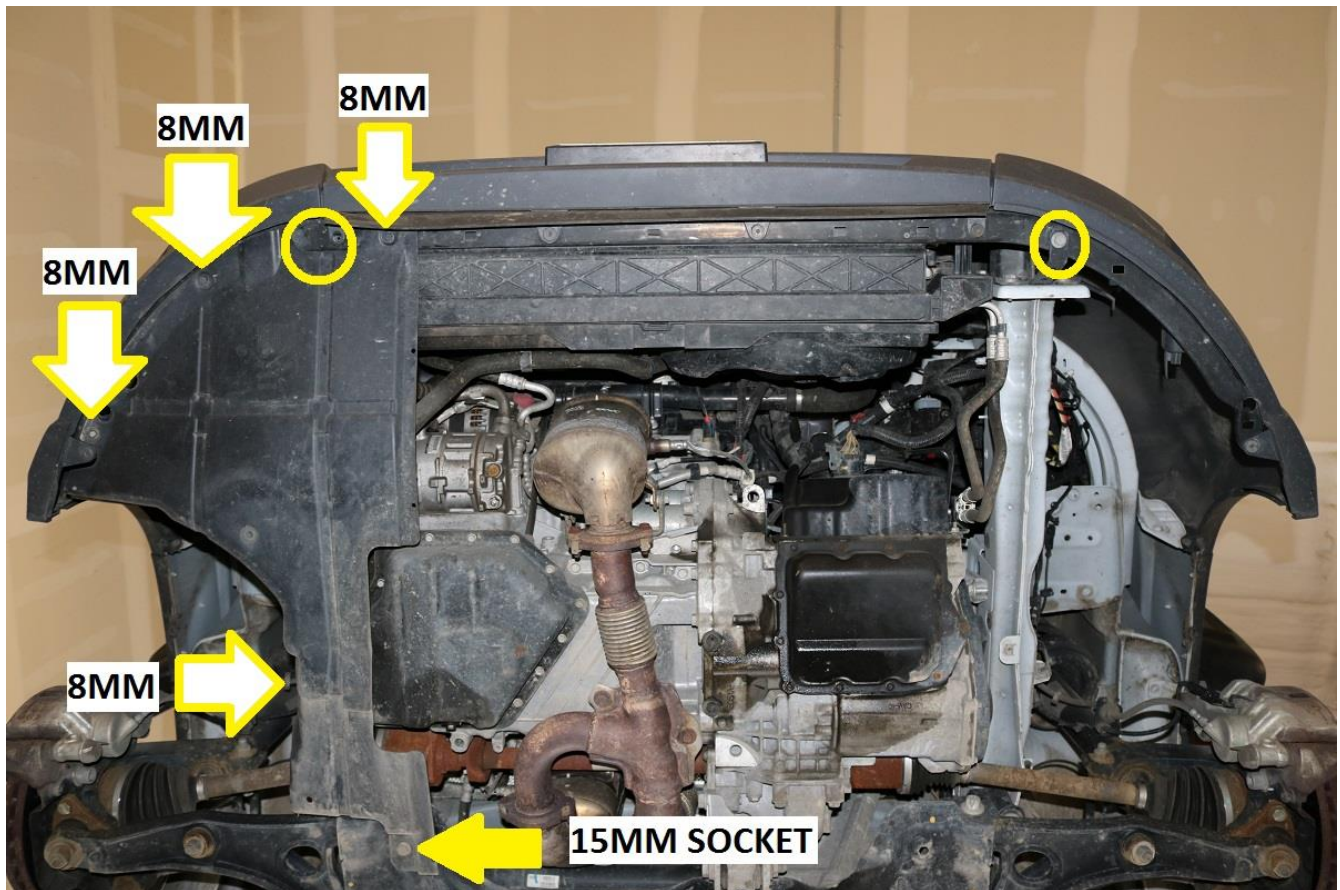
- 1) To begin, the front inner fender liners need to be removed. While it is not necessary to remove the front wheels to do this, it does make accessing and removing the inner fender liners much easier. The front tires of the vehicle have been removed in these instructions for photographic purposes.
- 2) If the front wheels are removed, be sure to safely support the vehicle with a quality floor jack and jack stands.
- 3) Unless otherwise specified complete all tasks on both sides of the vehicle. The instructions will show all steps on the driver side (left hand) of the vehicle.
- 4) Use an 8mm socket / wrench to remove the 5 outer fasteners along the outside edge of the inner fender, their locations are denoted by the red arrows in the image below.
 - a. Use a 10mm socket to remove the plastic nut denoted by the yellow arrow in the image below.



- 5) There is one remaining 8mm fastener on the driver side securing the inner fender liner to the vehicle. It is located on the bottom of the chassis shown in the image below. Remove this screw and remove the inner fender liner from the vehicle.
- Note on the passenger side (right hand) of the vehicle there is one additional 8mm screw connecting the underbody plastic to the inner fender liner, locate it and remove. See image under step 5 for an approximate location of fastener.



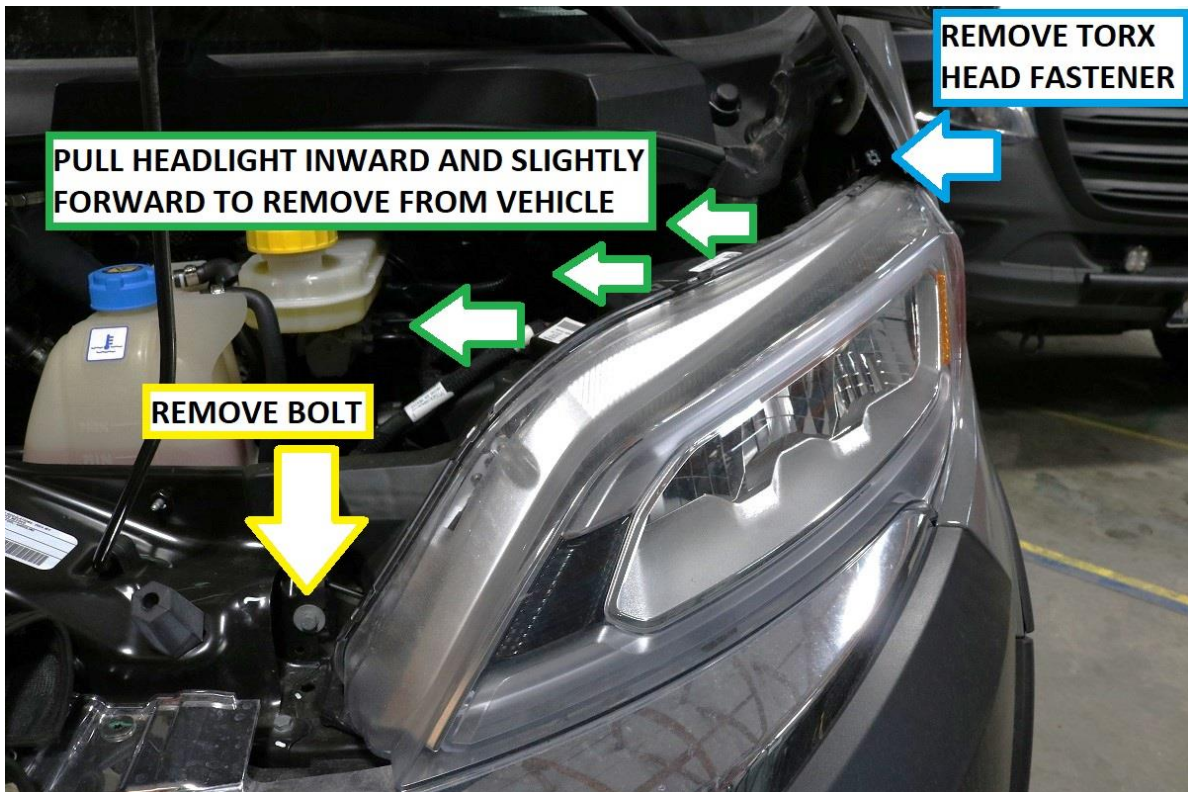
- 6) On the underside of the front bumper, use the same 8mm socket to first remove the plastic under body guard on the passenger side. A 15mm socket / wrench is needed to remove the larger fastener towards the rear of the vehicle.
- Note, on the passenger side (right hand) of the vehicle there is one additional 8mm screw connecting the underbody plastic to the inner fender liner.
 - Remove the two bolts securing the plastic bumper cover to the bumper itself using a 13mm socket / wrench. Their locations are circled in the image below. On the right hand side, this bolt will become visible once the plastic under body guard is removed. See image below for reference.



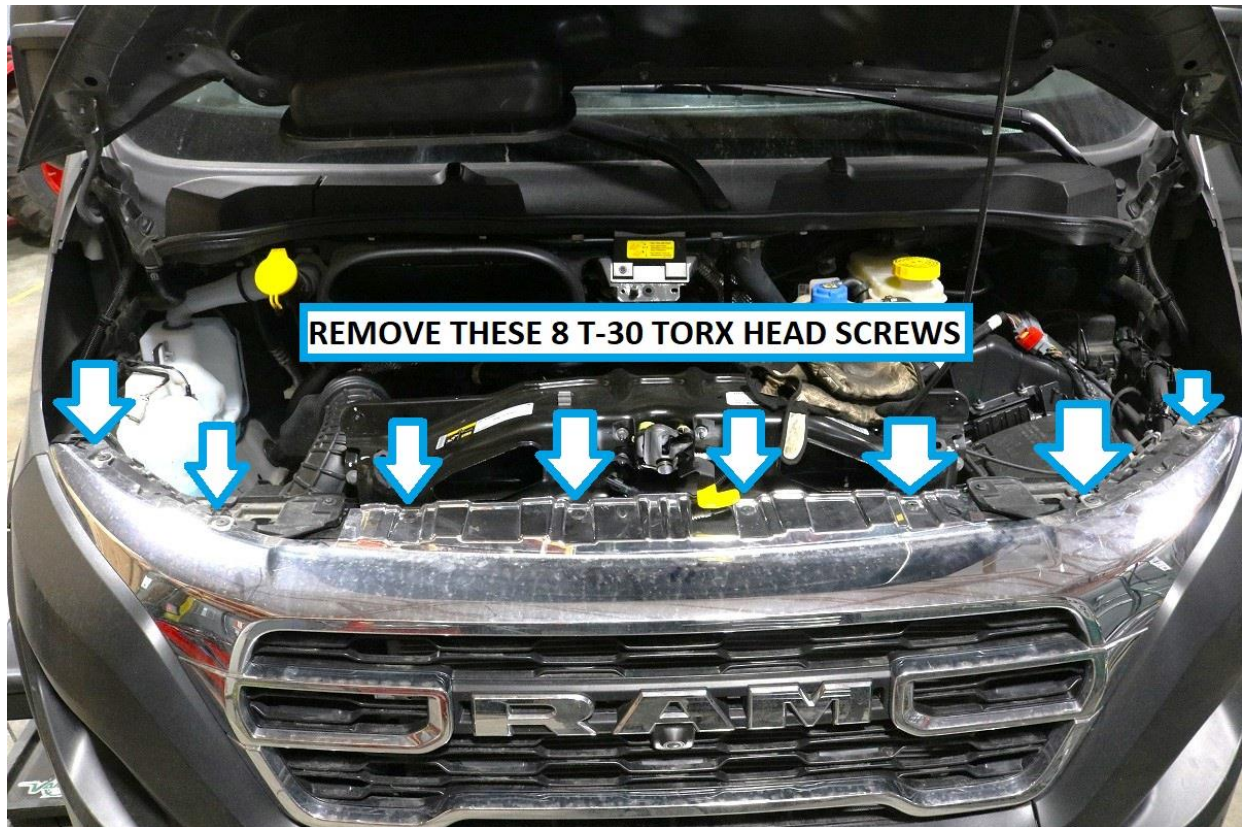
- 7) On the inside of the fender, where the plastic front bumper cover meets the fender, there are two additional T-30 torx bolts to remove on each side of the vehicle. See image below for reference.
- If the vehicle is equipped with fog lights, disconnect them from behind the bumper cover at this time.



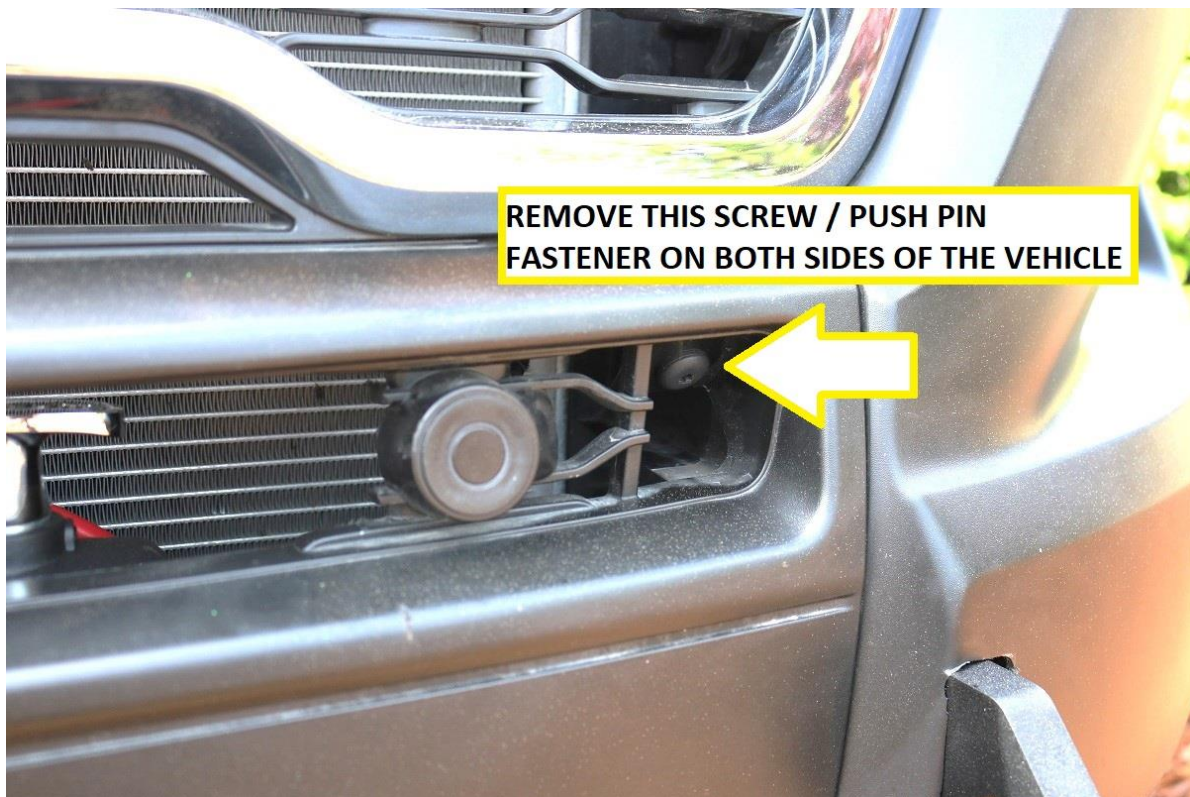
- 8) Locate the T-30 torx near the fender and the 10mm hex head bolt near the center of the grill and remove. See image below for reference.
 - a. Once those two fasteners are removed, pull the headlight assembly inward and slightly forward to release it from it's clips.



- 9) Once the headlight is freed from its mount, be sure to unplug the electrical connector at the back of the headlight. Set headlamps aside in a location where they will not be damaged.
- 10) With headlights removed, locate and remove the 8 T-30 torx screws along the top of the grill.



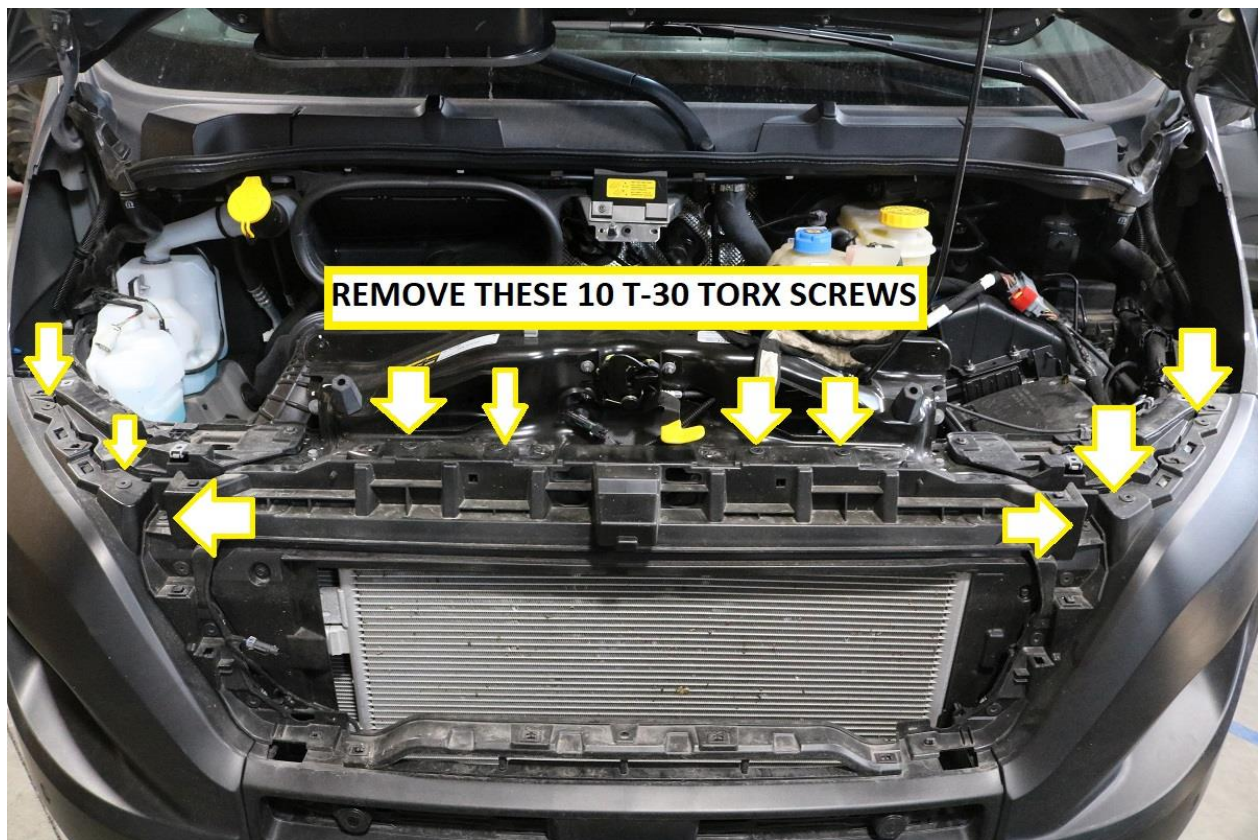
- 11) At the lower portion of the grill, near the center parking sensors. Locate the T-30 plastic push pin on each side of the vehicle. Remove screw and utilize an automotive fastener push pin removal tool to pry the push pin out from its mount.



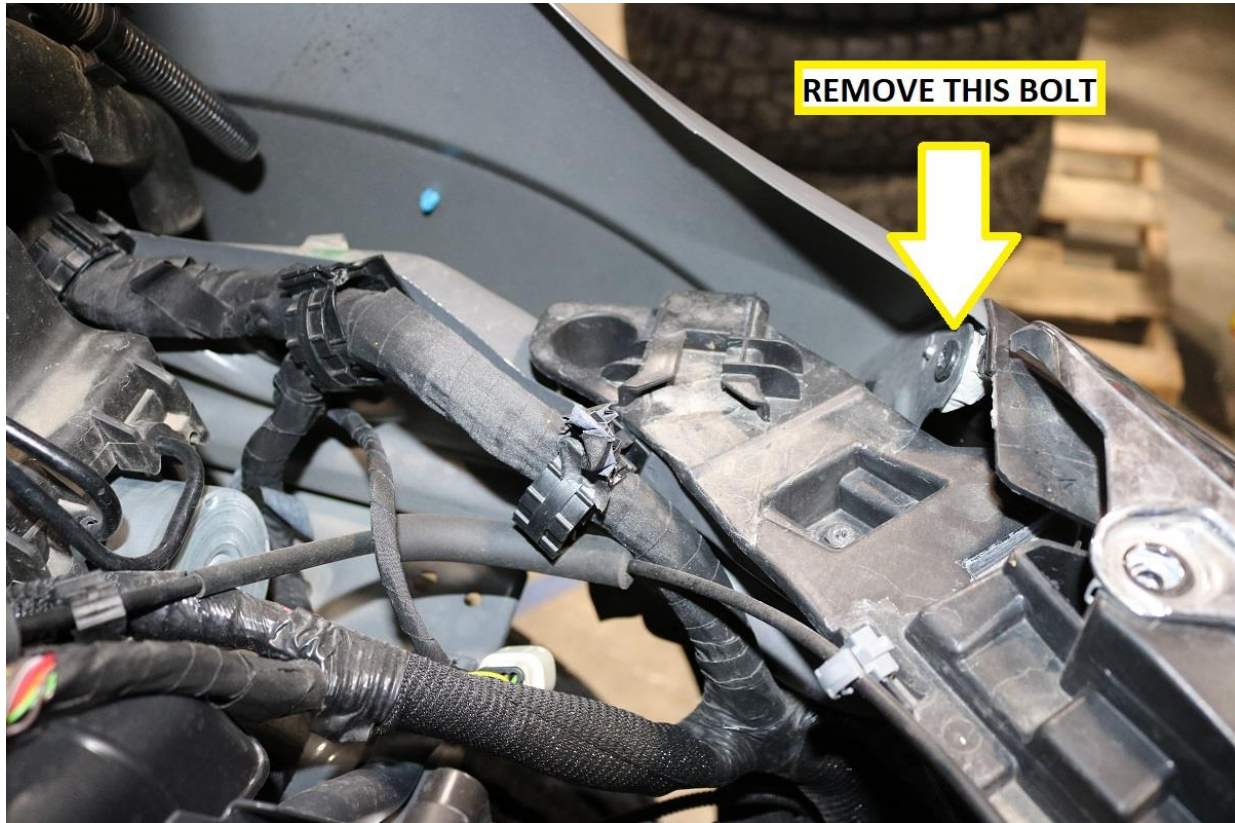
- 12) With upper grill bolts removed, pull up and outwards on the grill to allow access to the electrical connector for the front camera. Unplug the camera and separate any wiring clips from the grill.
- a. Continue to pull up and outwards (away from the vehicle) to remove the grill.



- 13) With the grill removed, locate and remove the ten T-30 torx head bolts shown in the image below that secure the front bumper fascia to the vehicle.



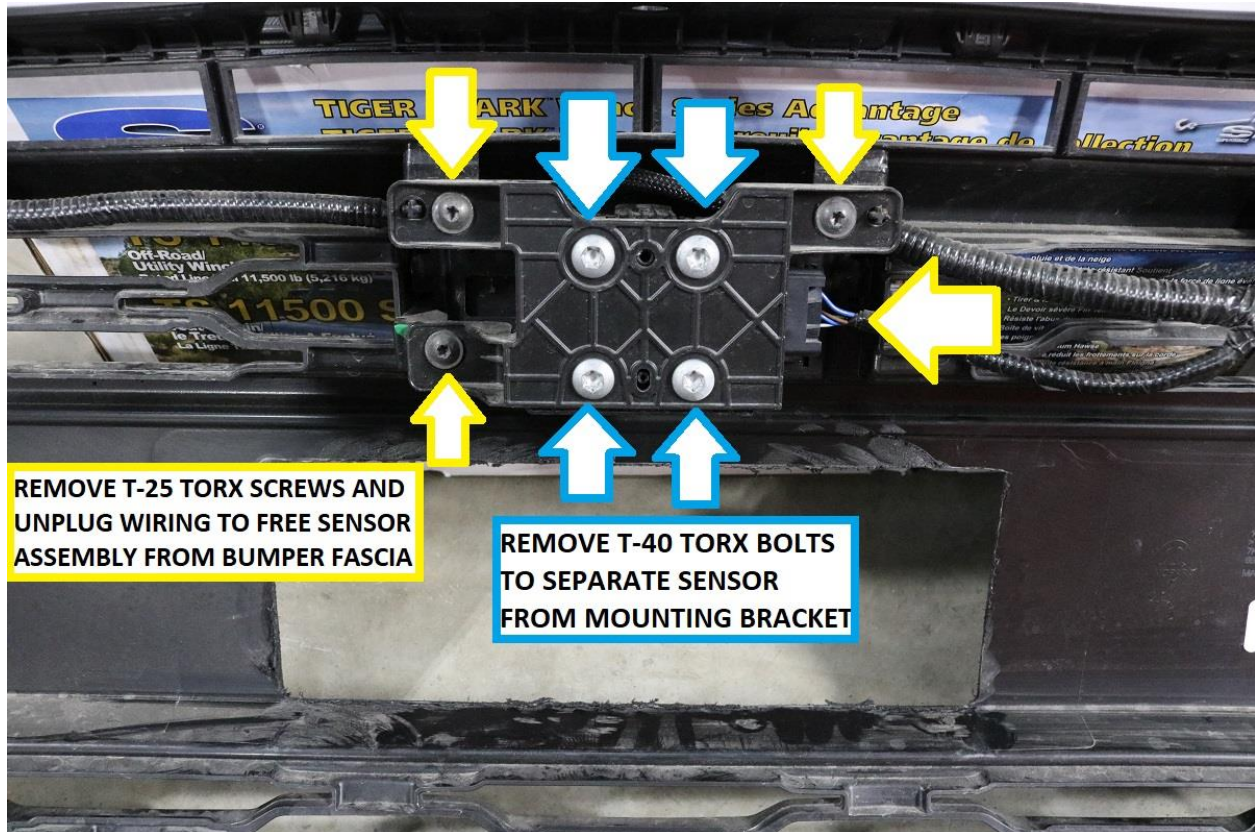
- 14) Locate the T-30 bolt near the fender / bumper interface previously hidden under the headlight assembly. Remove this bolt.



- 15) The front bumper fascia can now be separated from the vehicle. Locate the small plastic tabs near the headlight assembly area and lift the fascia up and outwards to clear the tabs.
- Additionally, firmly pull outwards at the front bumper fascia / fender interface to free the front bumper fascia from the vehicle.
 - Remove bumper fascia from vehicle being careful to unplug any remaining wiring or clips secured to the backside and set aside.



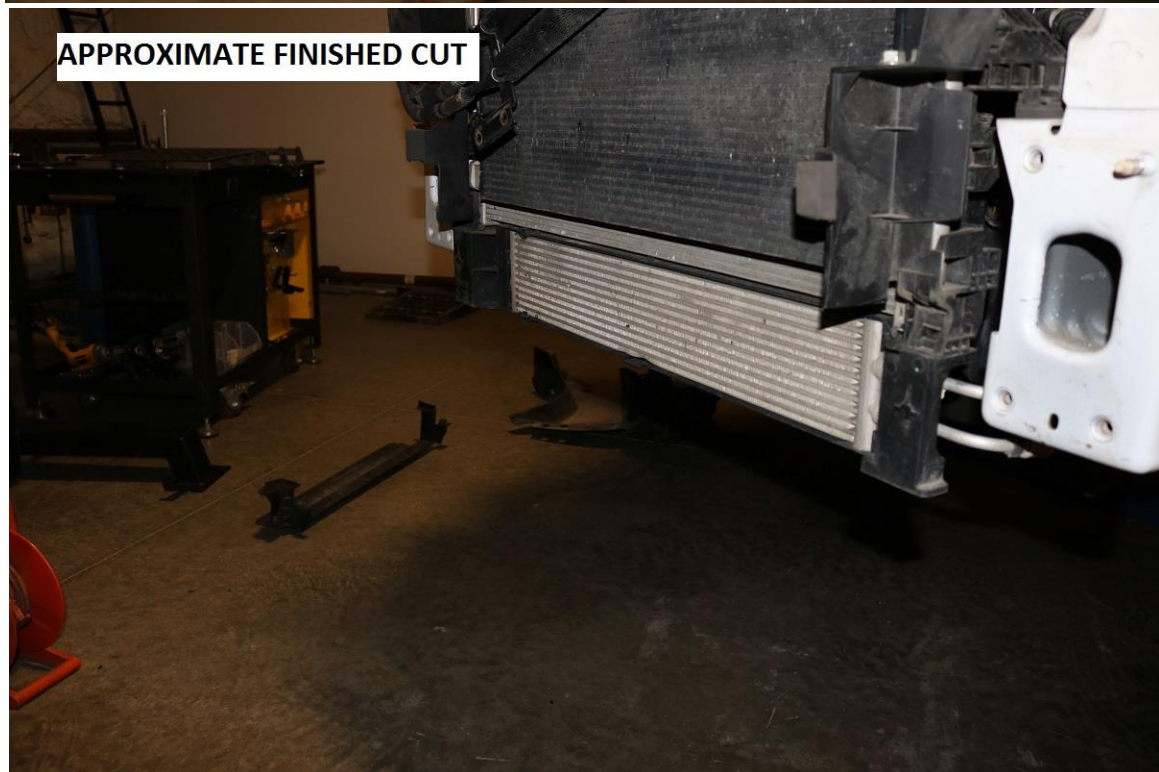
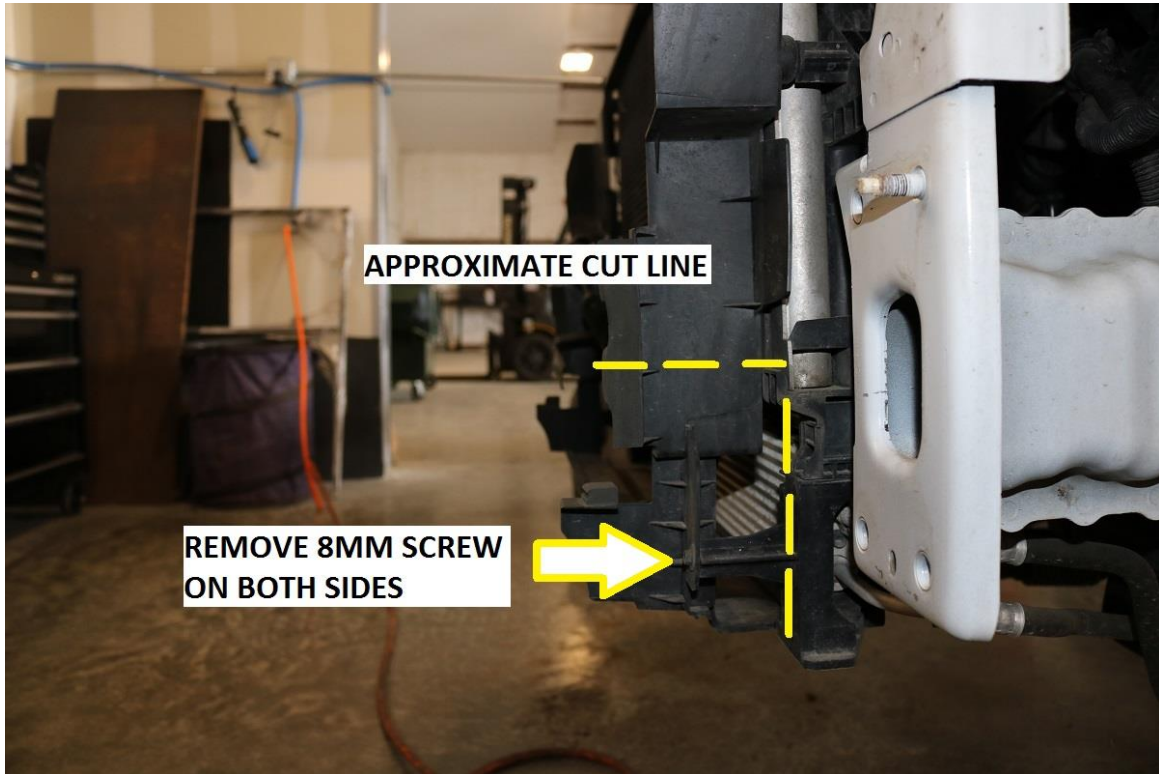
- 16) On the backside of the bumper fascia, locate the brake assist radar sensor. Remove the housing from the bumper fascia by removing the three T-25 torx bolts securing it to the bumper.
- a. Once removed from the bumper fascia, unplug the sensor and remove it from the mounting bracket using a T-40 torx to remove the 4 bolts securing it.
 - b. BE VERY CAREFUL NOT TO DROP THE SENSOR! Set it aside in a safe place for now.



- 17) Locate the 3 bolts and one nut on each side of the vehicle which secures the front bumper to the chassis. Remove all four fasteners with a 15mm socket and remove the bumper from the vehicle.



- 18) Use a small pneumatic cut off wheel, or similar tool suitable for trimming plastic to trim the inner air damn plastic to fit the front hitch.
- Cut straight up along the edge of the plastic corner gussets. Cut up to the third corner gusset from the bottom. See approximate cut lines in image below and finished cut in second image.
 - Remove the two screws securing the lower part of the inner air damn to the plastic core support structure. Use an 8mm socket for removal.
 - Once horizontal cut is made, cut the lower threaded protrusions flush as show.
 - Deburr any rough plastic edges with a sanding attachment or file.

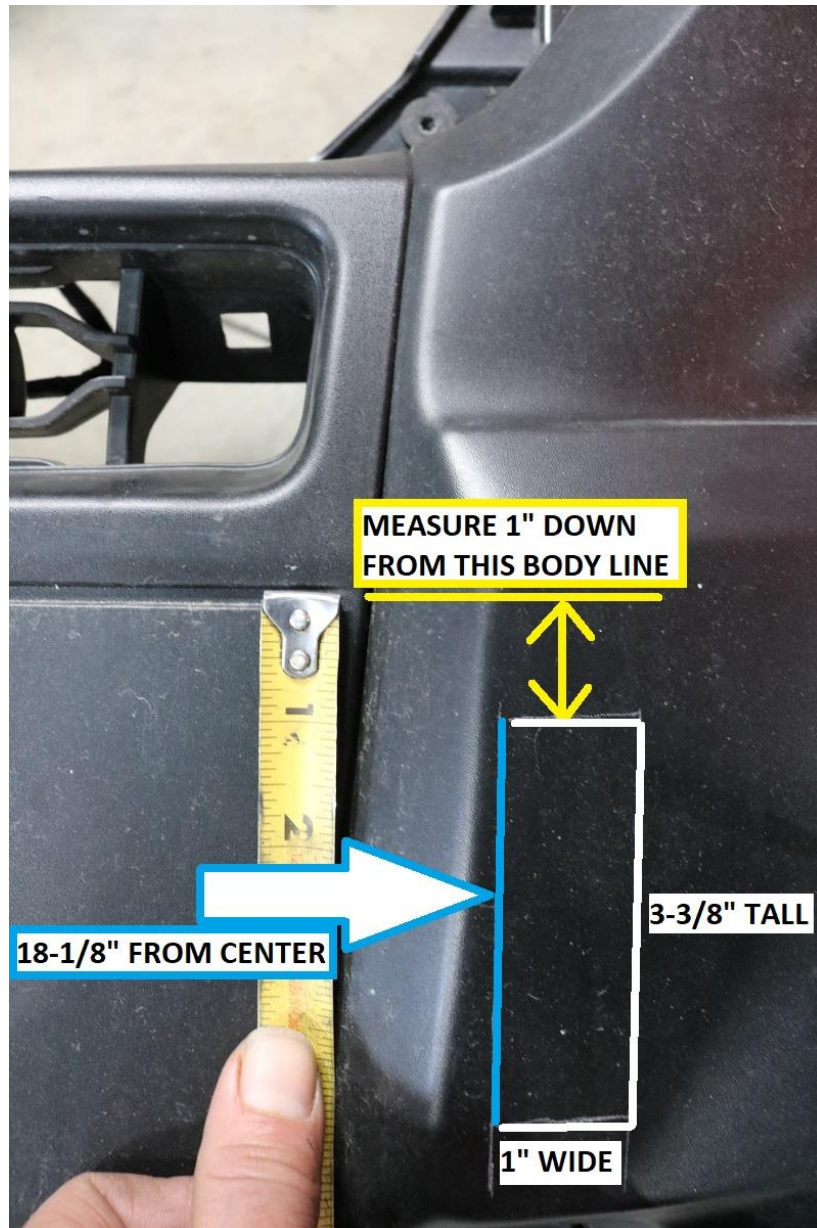


- 19) Fit the front winch mount to the vehicle using the hardware removed in step 20. The winch mount needs to install from the bottom and brought upwards to fit around the front frame horns of the chassis.
- Install the nut on each side first to hang the hitch on the vehicle, and then install all 3 additional bolts per side. Finger tighten bolts until all have been started.
 - Once all hardware is started, ensure the winch mount is level and torque the OEM bolts / nut to 35 ft-lbs. (47.5 N.m)

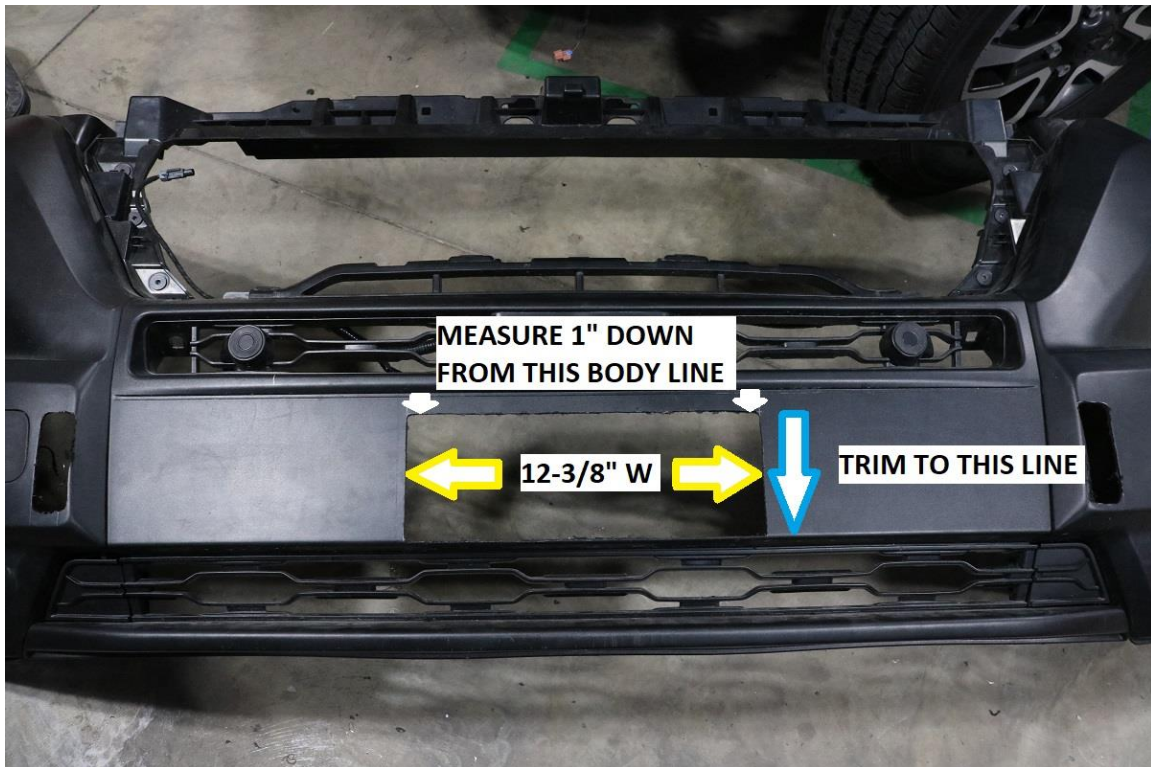


Bumper Cover / Front Fascia Trimming

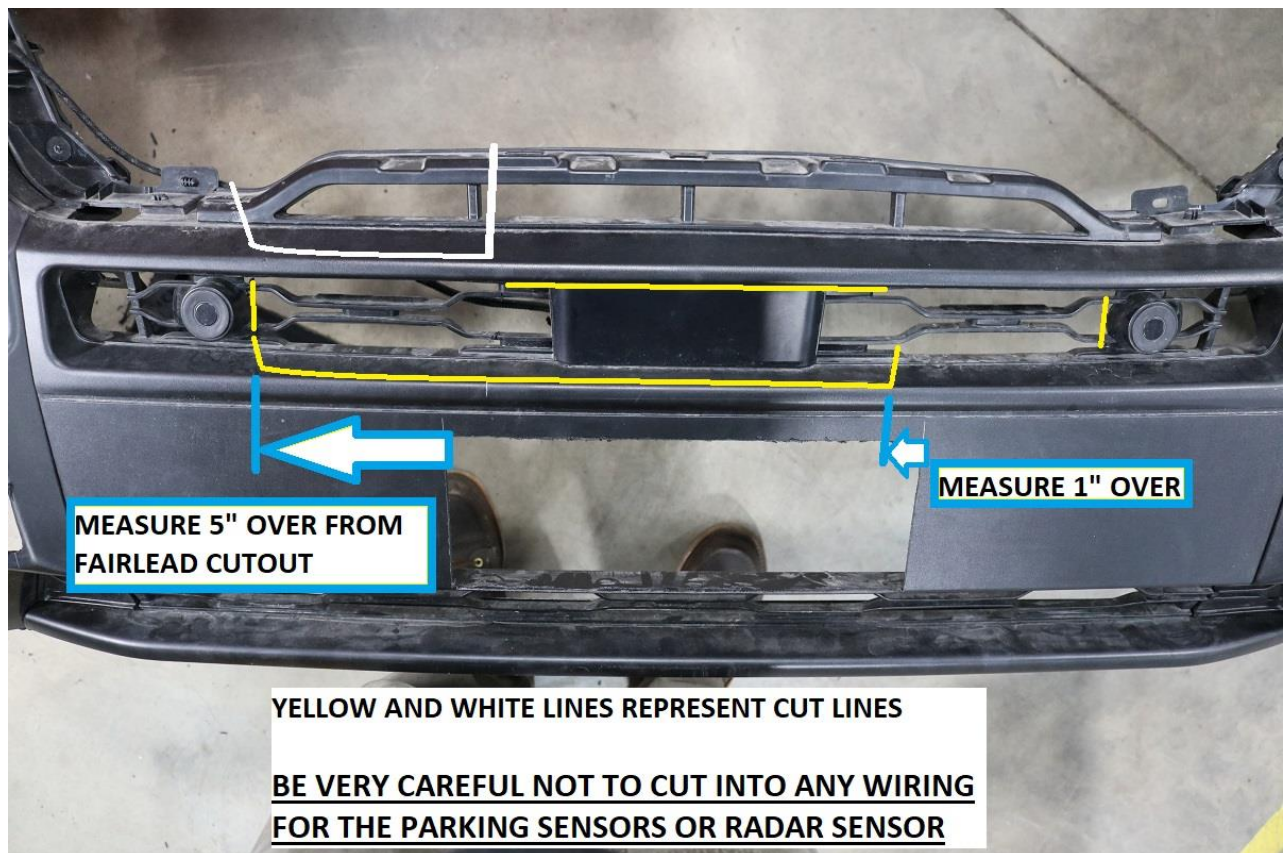
- 20) Use a Phillips screw driver to remove the 4 screws securing the license plate to the license plate mount.
- Use the same screwdriver to remove the 4 screws securing the license plate mount to the bumper cover.
- 21) Note all trimming instructions are to be used as a guide; final fitment may vary from vehicle to vehicle.
- 22) Locate the center of the front bumper cover and measure 18-1/8" out from center each direction. Mark a straight vertical line.
- Measure 1" down from the body line shown below and mark a horizontal line.
 - These measurements are the starting point of a vertical rectangle measuring 3-3/8" tall x 1" wide.
 - See image below for reference.



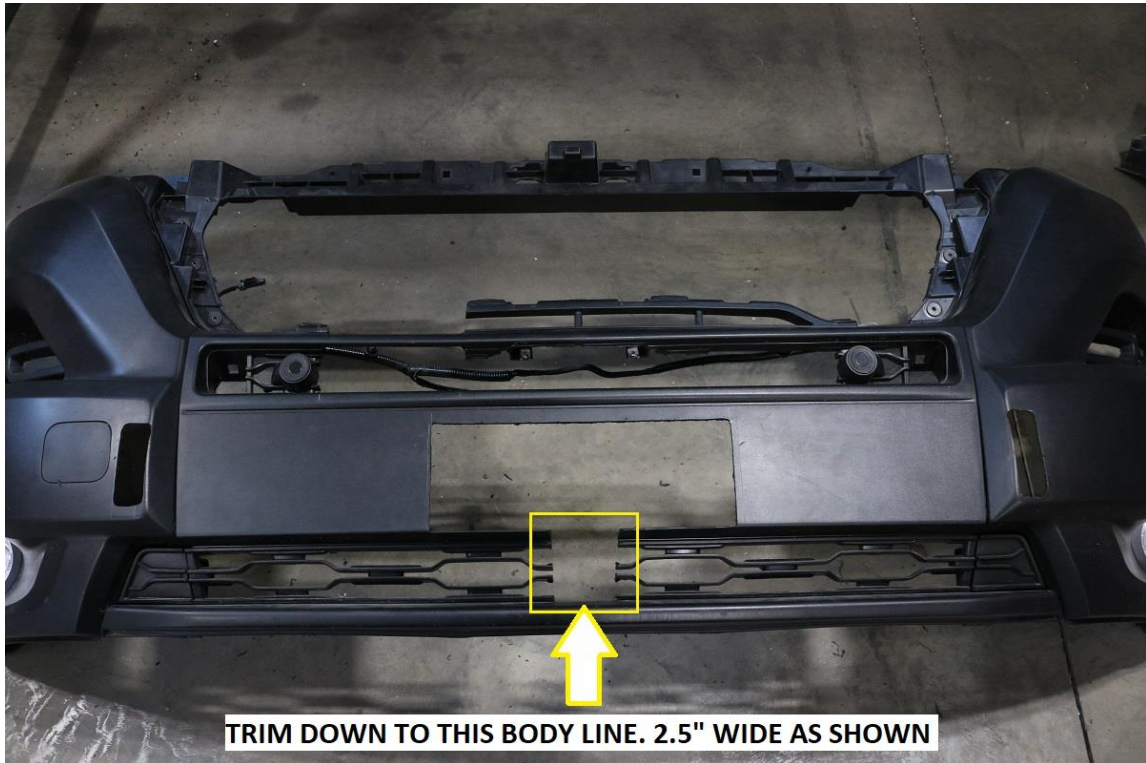
- 23) Make the rectangular cutouts on both sides for the shackle tow points to protrude through the bumper cover. Use a small dremel or body saw to cut the plastic. It is helpful to drill a $\frac{3}{8}$ " diameter pilot hole in the corners to make for a cleaner finished cut.
- 24) Cut the center of the bumper cover out as shown in the image below for the fairlead mounting plate.
- Measure 1" down from the same body line reference for the shackle tow point cuts. Mark and cut out a $12\frac{3}{8}$ " wide x $4\frac{3}{8}$ " wide rectangle on center.



- 25) Next, measure 5" over from the passenger side of the fairlead cutout of the previous step and mark a vertical line. Measure 1" over from the driver side fairlead cutout and mark a vertical line.
- a. See image below for reference of cut lines.



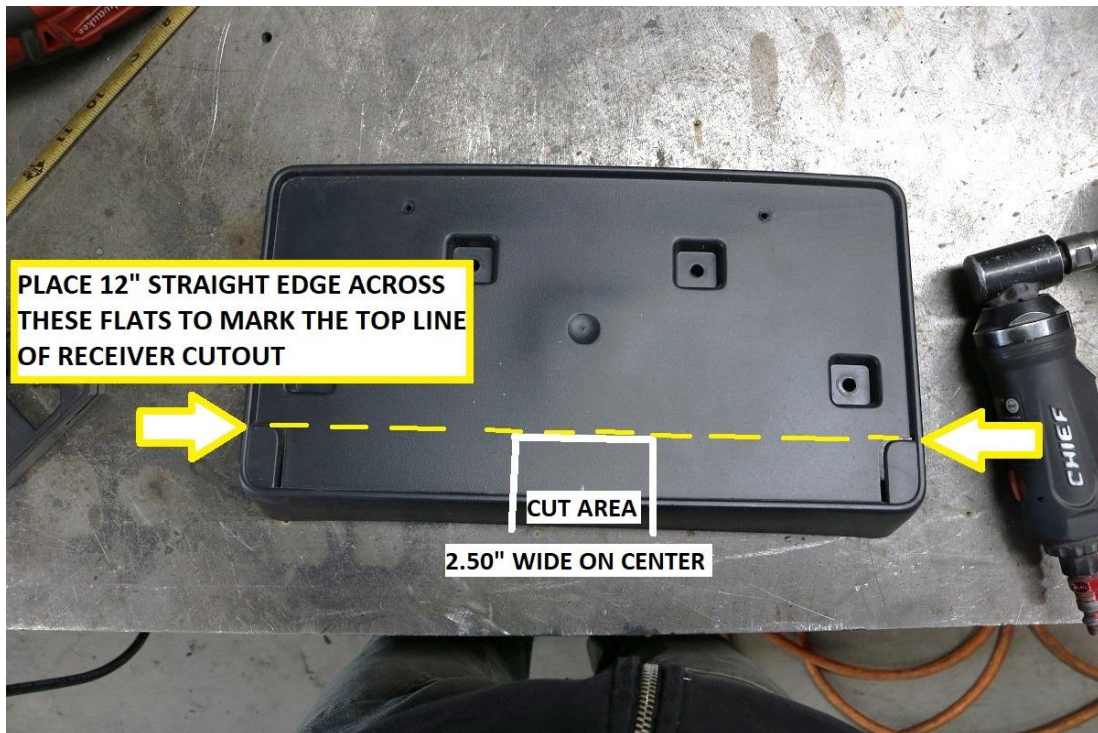
- 26) The last cut on the bumper fascia is for the receiver hitch. Locate and mark the center of the bumper at the bottom of the cutout made for the fairlead mounting plate in step 25. Mark / cut a 2.5" wide square cutout as shown below.



27) At this point, clean up any rough cut edges with an edge file or die grinder and test fit the front bumper fascia back on the vehicle.

- a. Make adjustments as needed to get the fascia to snap back into place at the junction point with the front fenders. (See step 15)

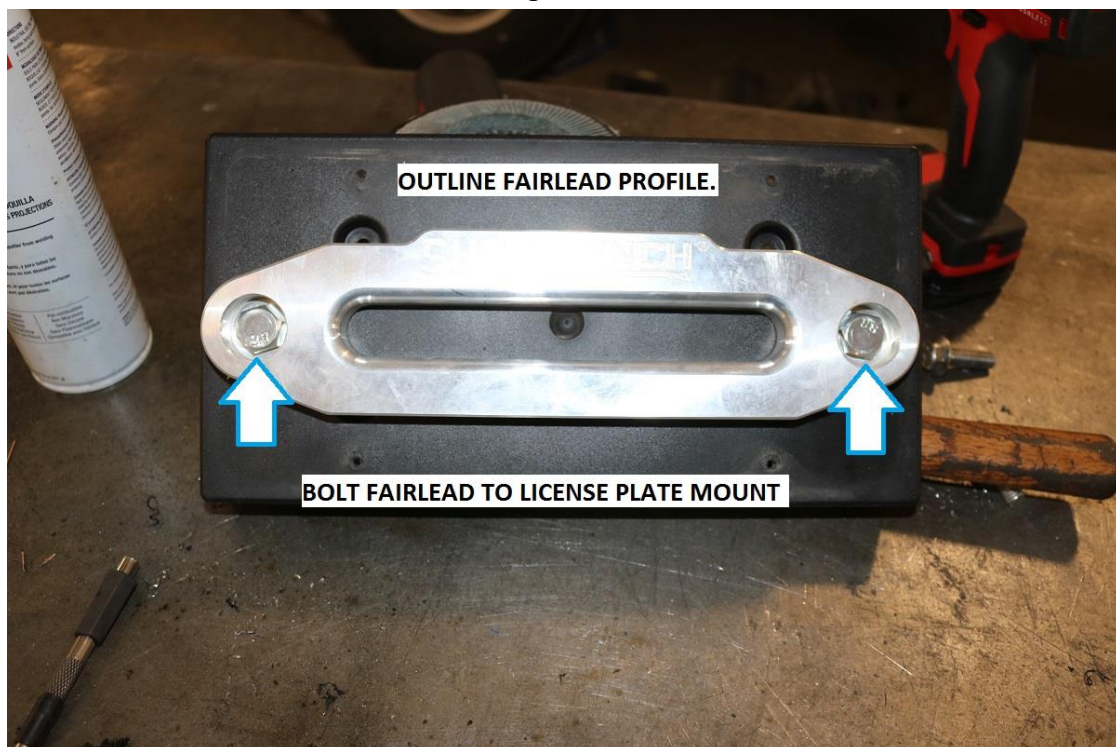
28) Mark and trim the license plate mount so it can be fitted to the vehicle. Trim as shown below.



29) Fit the license plate mount to the front bumper fascia. Once centered over the cutout and receiver tube, mark from the backside the two mounting holes for the fairlead.



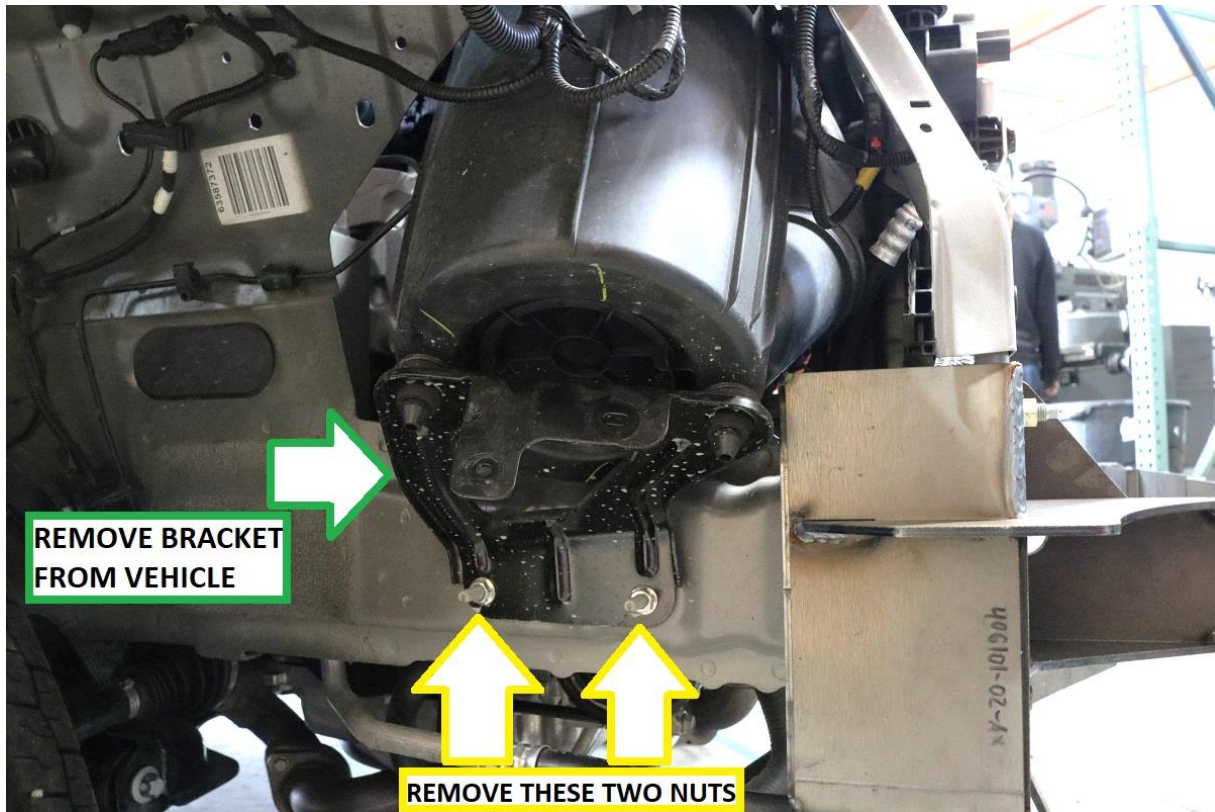
- 30) Once the holes are marked on the backside of the license plate mount, drill the holes using the same diameter drill bit as the fairlead hardware included with your winch.
- Bolt the fairlead to the license plate mount.
 - Mark outline of fairlead and trim along line made of outline.



- 31) Test fit trimmed license plate mount by installing the fairlead onto the winch mount and check fitting fitment of license plate mount.

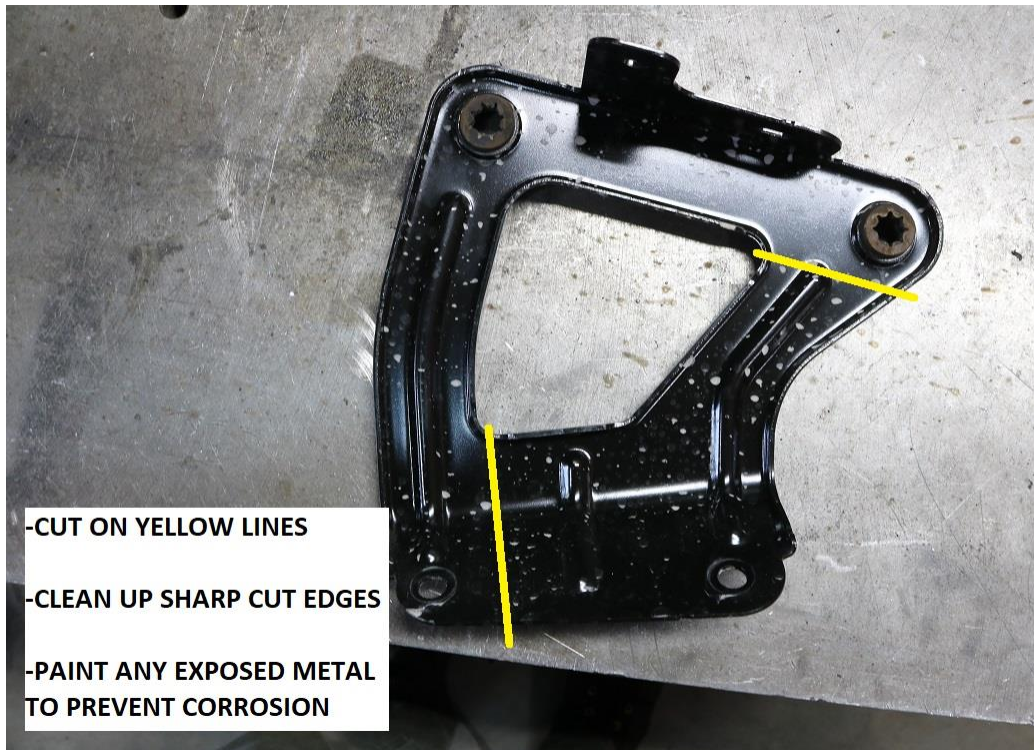
- a. Once satisfied with fitment of front bumper fascia and license plate mount, remove the fairlead from the winch mount and remove the front bumper fascia again.

32) Locate the bracket supporting the bottom of the air box on the passenger side of the vehicle. Remove the two 13mm nuts securing the bracket to the vehicle and remove.

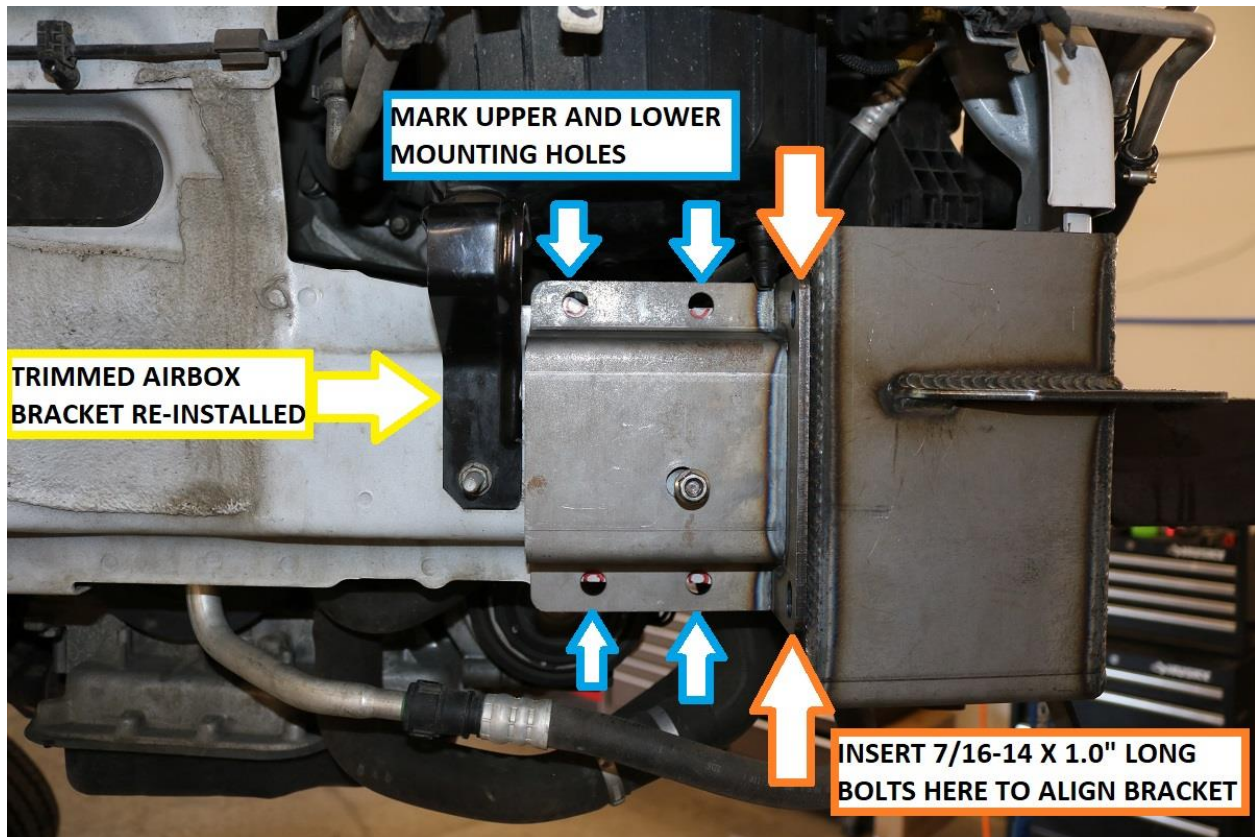


33) With the bracket removed from the vehicle, cut as shown in the image below.

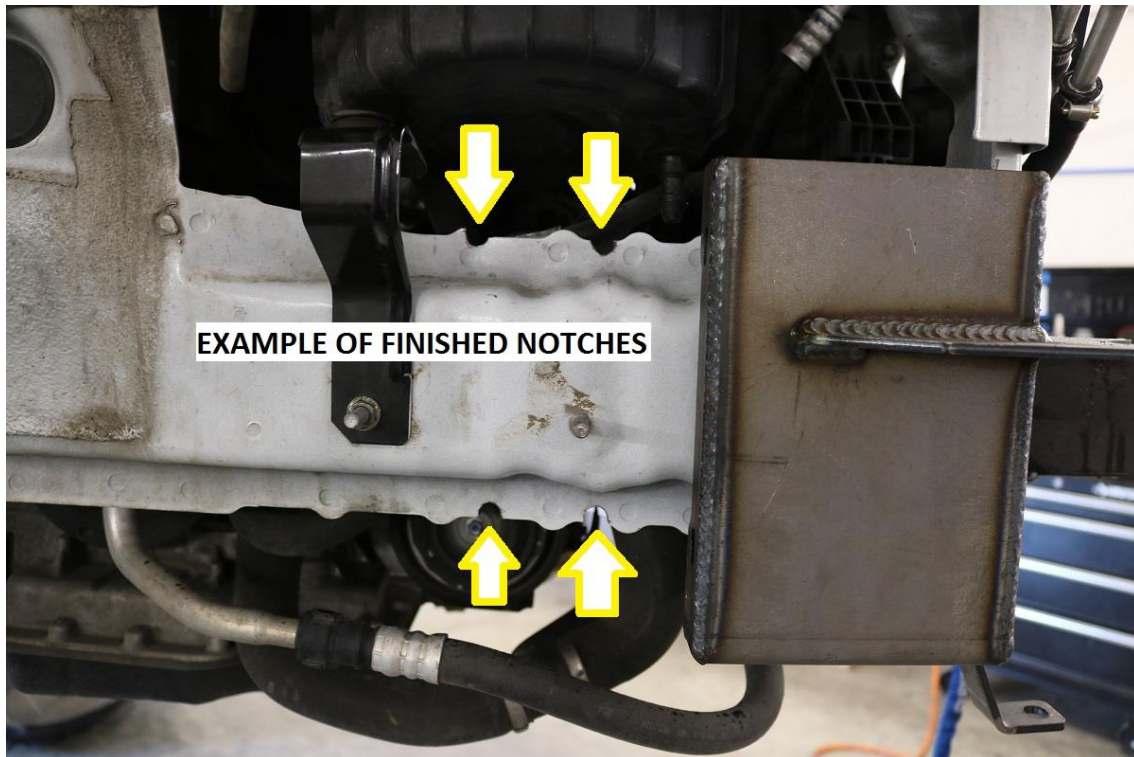
- a. Use a 4-1/2" angle grinder or similar metal cutting tool. Deburr any sharp edges after cutting and paint any exposed areas of metal with paint to prevent corrosion.



- 34) Still working on the passenger side, install the passenger Re-enforcement Bracket. Use the included 7/16-14 x 1.0" long bolts in the forward mounting location to locate the bracket.
- a. Once fit to the chassis, mark the upper and lower chassis mounting holes.



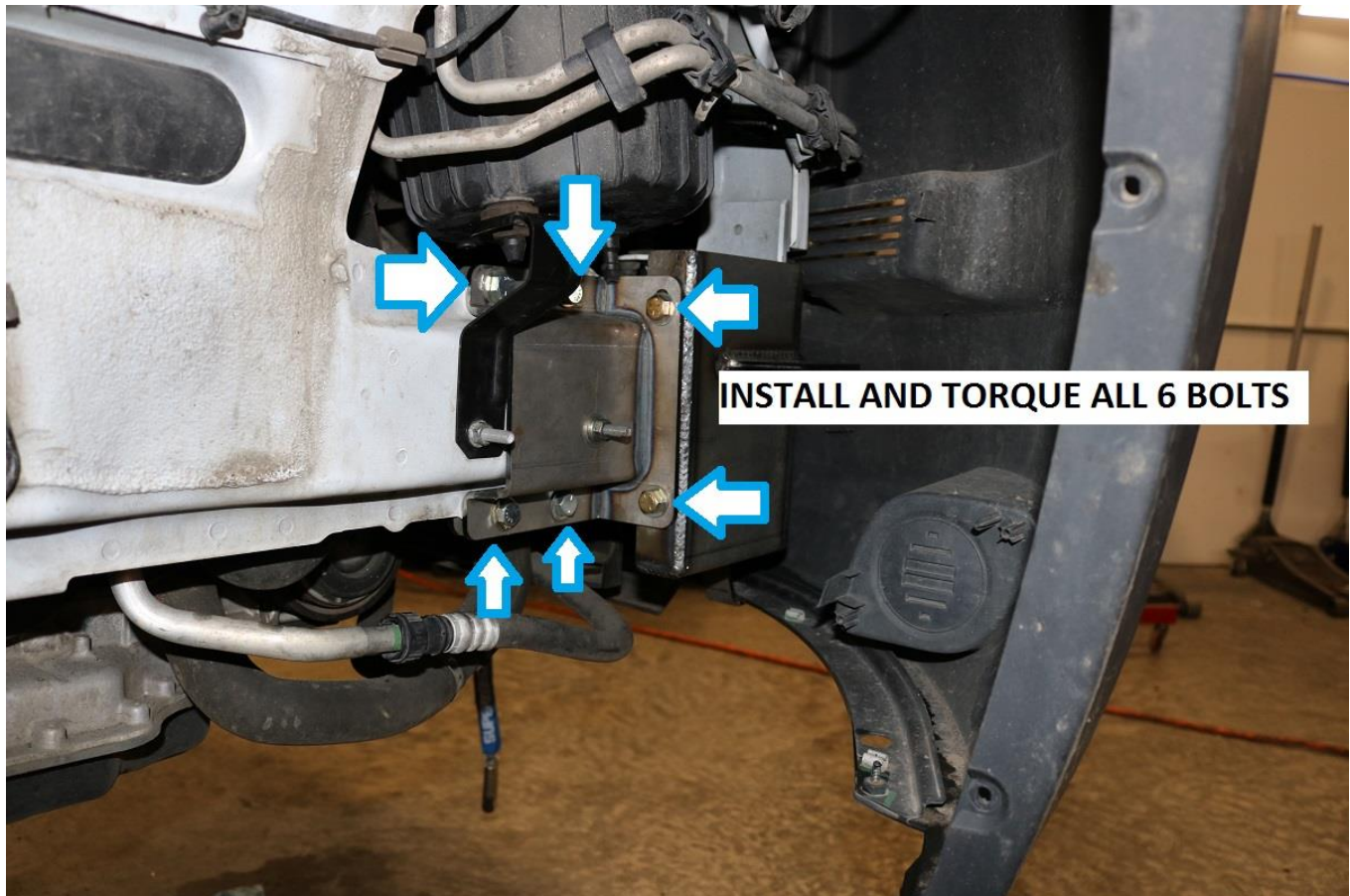
- 35) With the mounting holes marked, remove the bracket and use a dremel or die grinder with burr bit to notch out the hole mounting locations. See image below for reference of finished cuts.



- 36) On the inside of the main chassis rail. Locate the threaded stud protruding towards the center of the vehicle. Note, this might not be present on all vehicles.
- a. Use a small cut off wheel to cut this stud flush with the chassis. See image below for reference on stud location.
 - b. Once cut off, touch up any exposed areas of bare metal with paint to prevent corrosion.

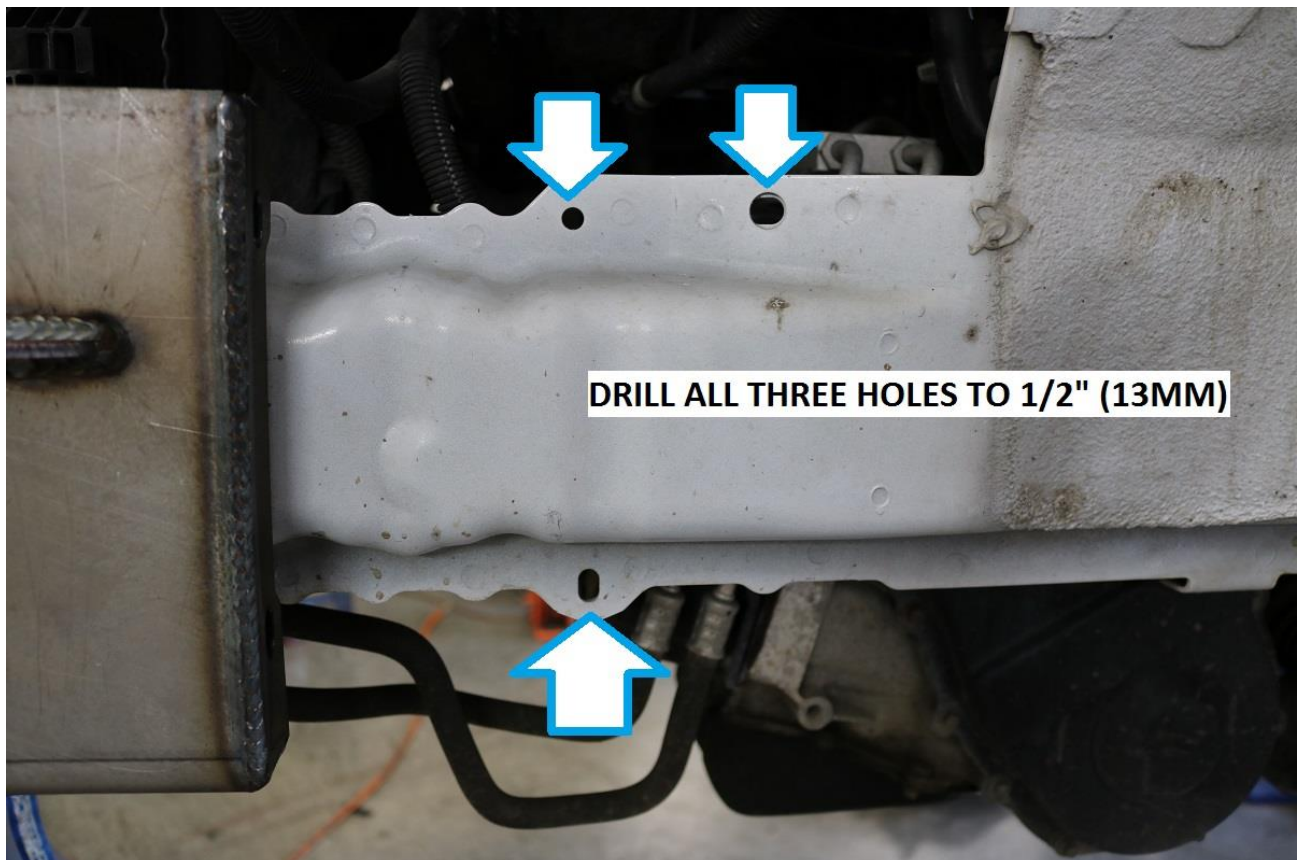


- 37) Install the inner and outer passenger re-enforcement channels. These brackets are designed to sandwich the chassis. Install using the included 7/16-14 x 1.50" long bolts provided. Use a washer under the head of the bolt and the nylock nut.
- a. Install and start all hardware before tightening.
 - b. Once all bolts have been started, use a 5/8" socket / wrench to torque to 40 ft-lbs (54 N.m)

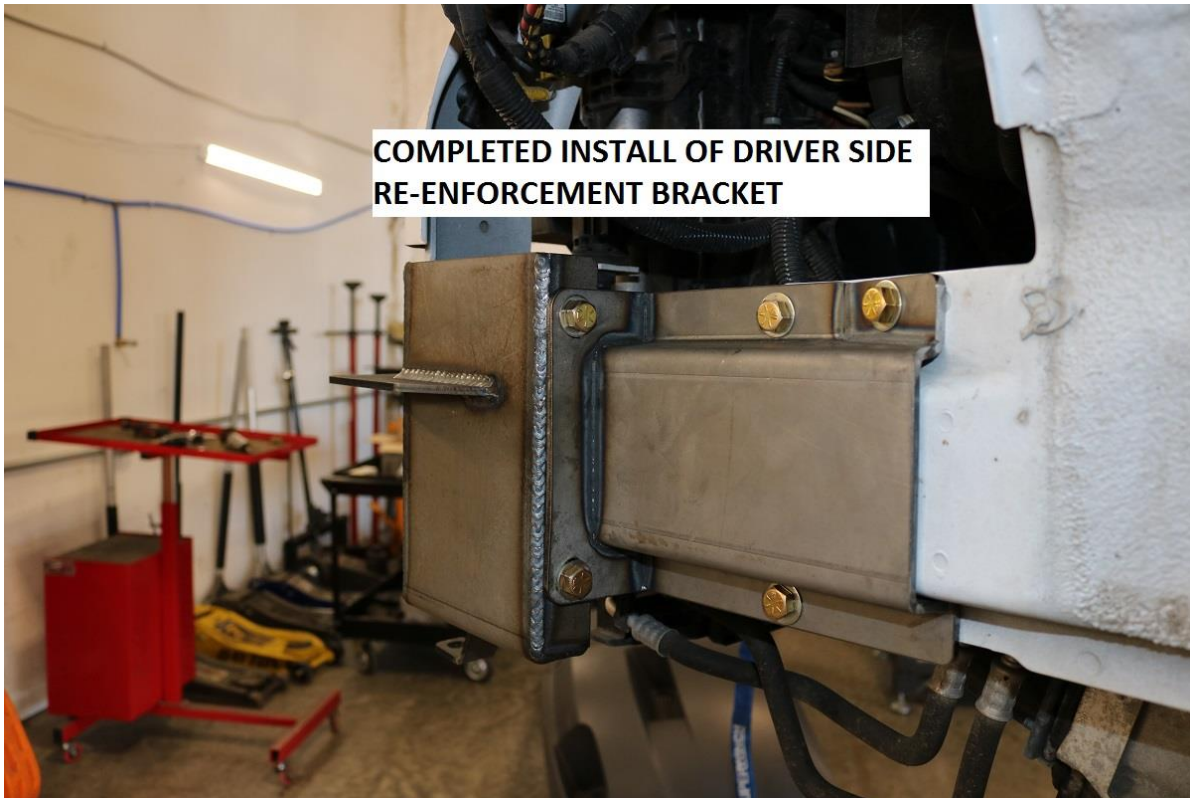


38) On the Driver (Left hand) side of the vehicle, locate the three mounting holes for the driver side reinforcement bracket shown in the image below.

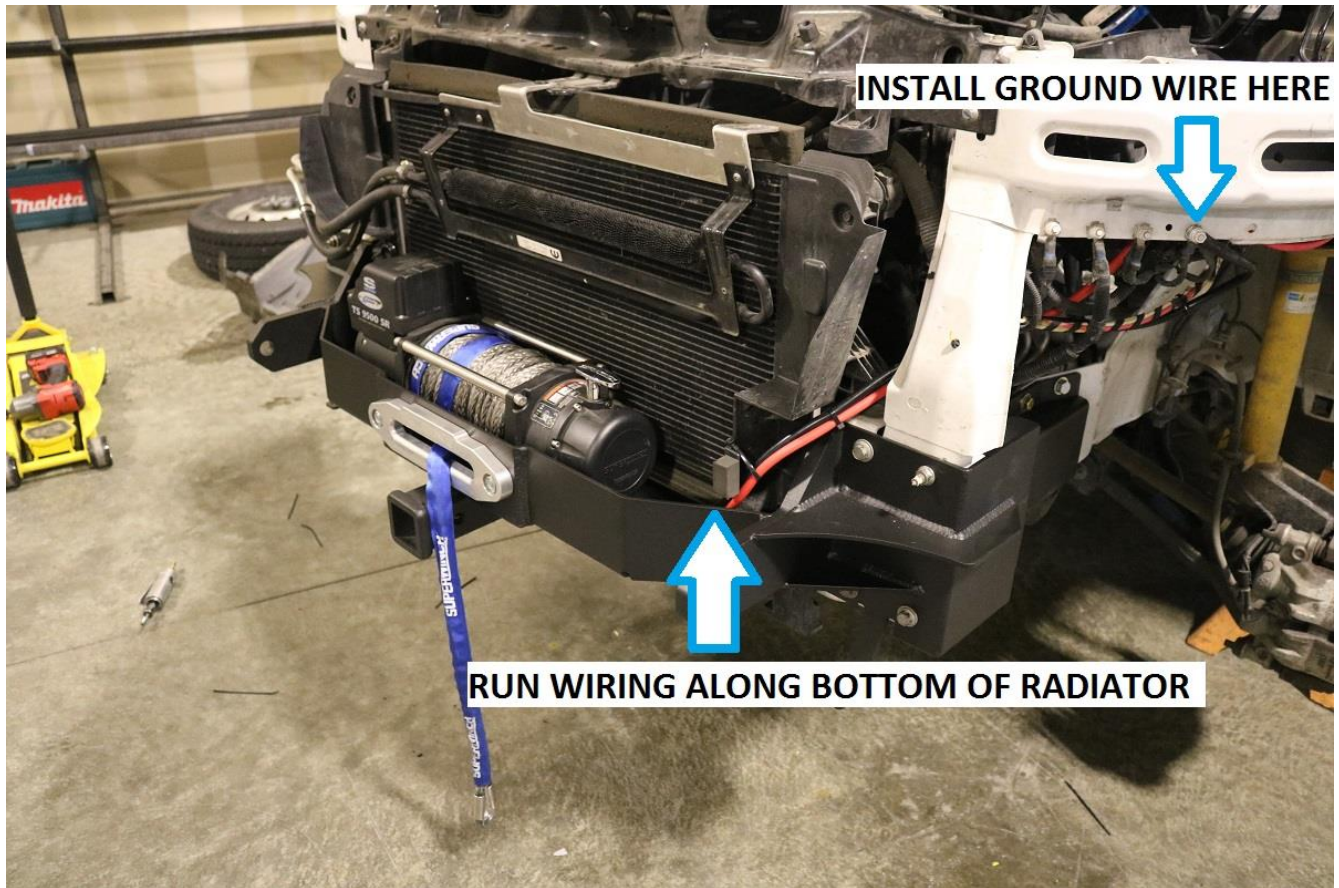
c. Use a 1/2" (13mm) drill bit or step drill to open up all three mounting holes.



- 39) Touch up any exposed areas of metal with paint to prevent corrosion and install the driver side re-enforcement bracket. Install using the included 7/16-14 x 1.0" long bolts provided. Use a washer under the bolt head and the nylock nut.
- d. Install and start all hardware before tightening.
 - e. Once all bolts have been started, use a 5/8" socket / wrench to torque to 40 ft-lbs (54 N.m)



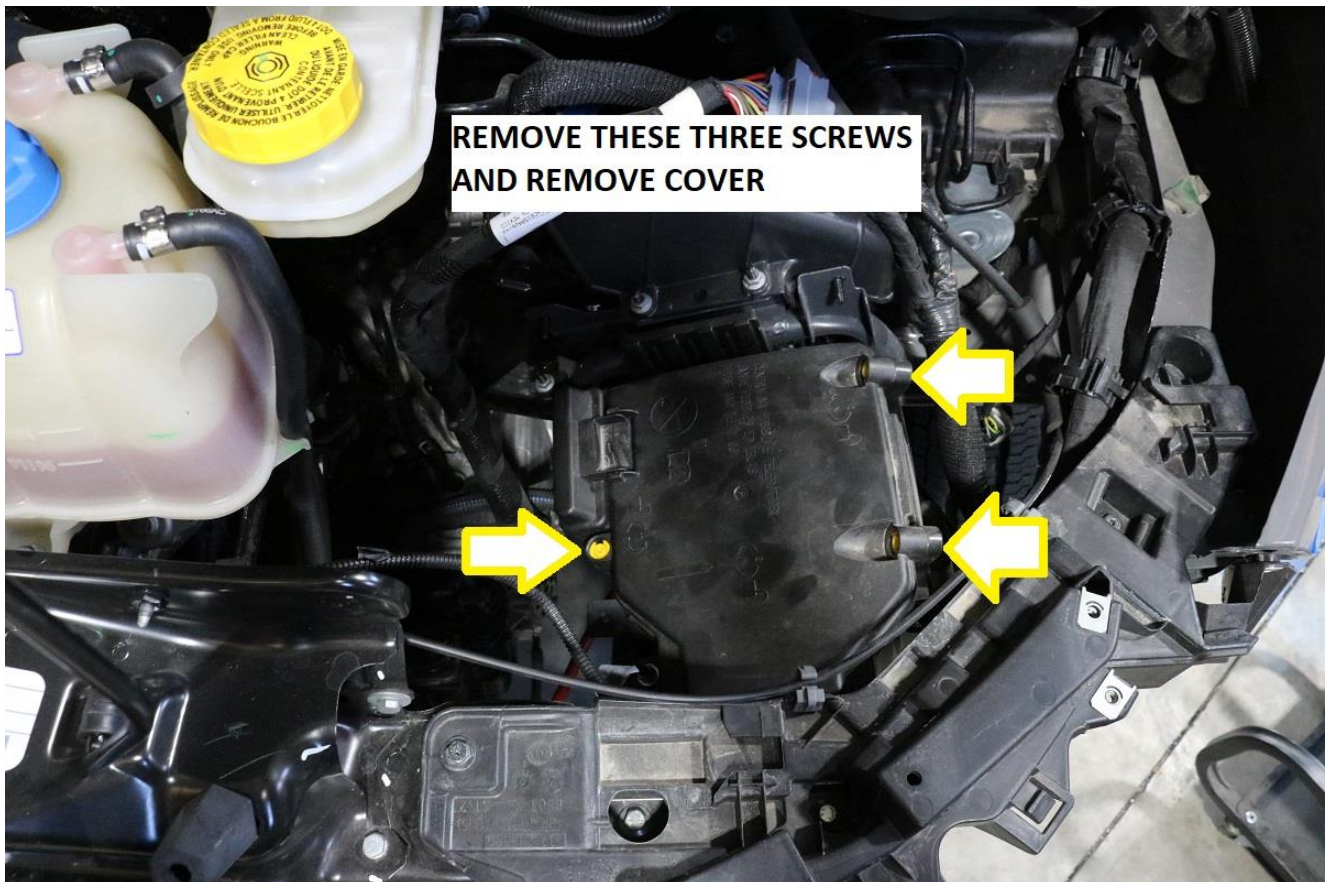
- 40) The winch mount is now fully installed. At this point, refer to your winch manufacturer's instructions and bolt the winch into the winch mount. Now is also a good time to wire or at least plan out the bulk of the wiring for the winch.
- 41) Below is how we wire the winches in house.
- a. Route the factory wiring along the bottom of the radiator.
 - b. Bring the wiring up inside the engine bay and bolt the ground wire to one of the large grounding posts along the bottom of the driver side core support.



INSTALL GROUND WIRE HERE

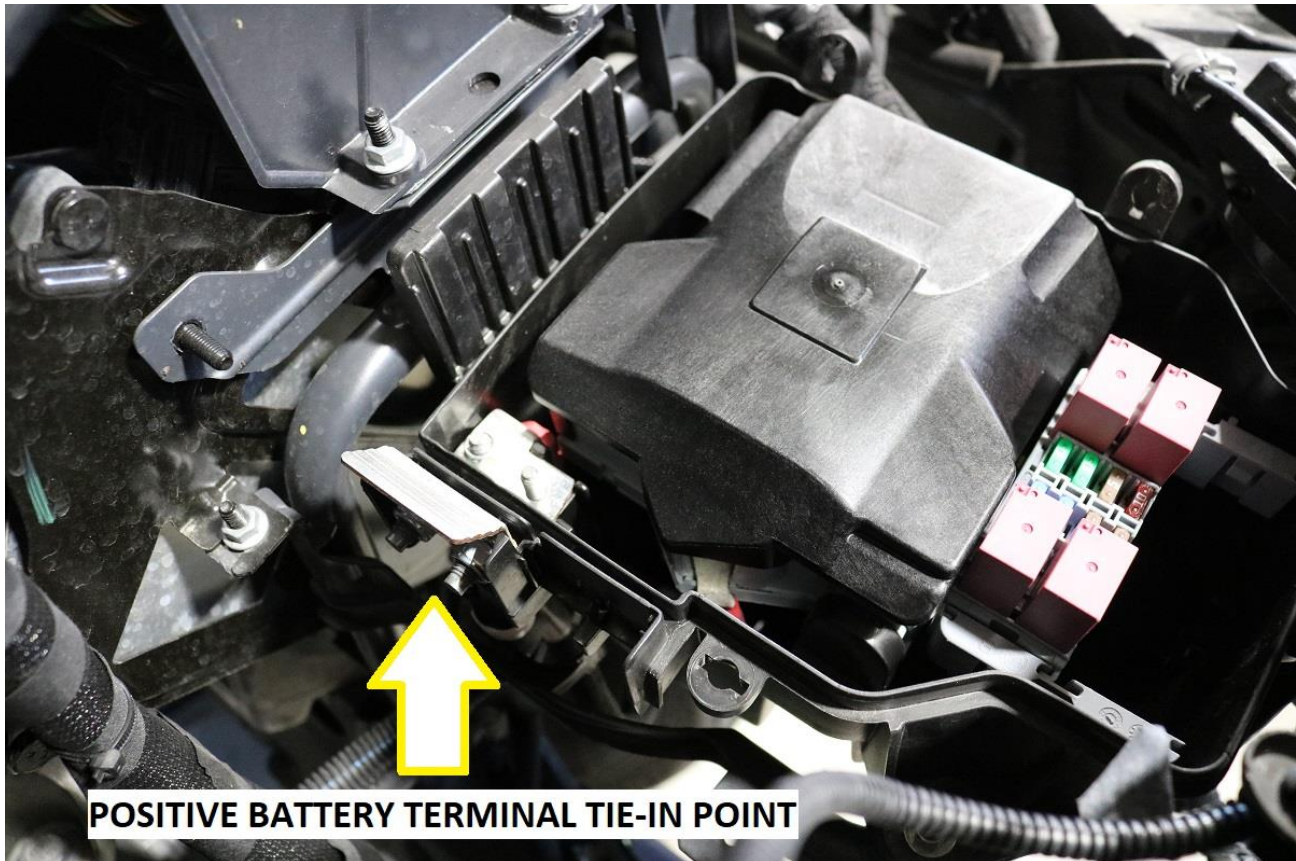
RUN WIRING ALONG BOTTOM OF RADIATOR

42) Locate the fuse box on the driver side and remove the three plastic yellow screws with a phillips screwdriver to remove the cover panel.



**REMOVE THESE THREE SCREWS
AND REMOVE COVER**

- 43) Remove the cover and locate the terminal tie-in point towards the center of the vehicle. You can utilize either of the two tie in points here for the positive wire on the winch. Use a 13mm socket / wrench for removal of the nut on the positive terminal stud.
- a. Once the positive wire is hooked to the positive terminal stud on the vehicle, safely ziptie any winch wiring away from heat or contact / chafe points and re-install the fuse box cover.



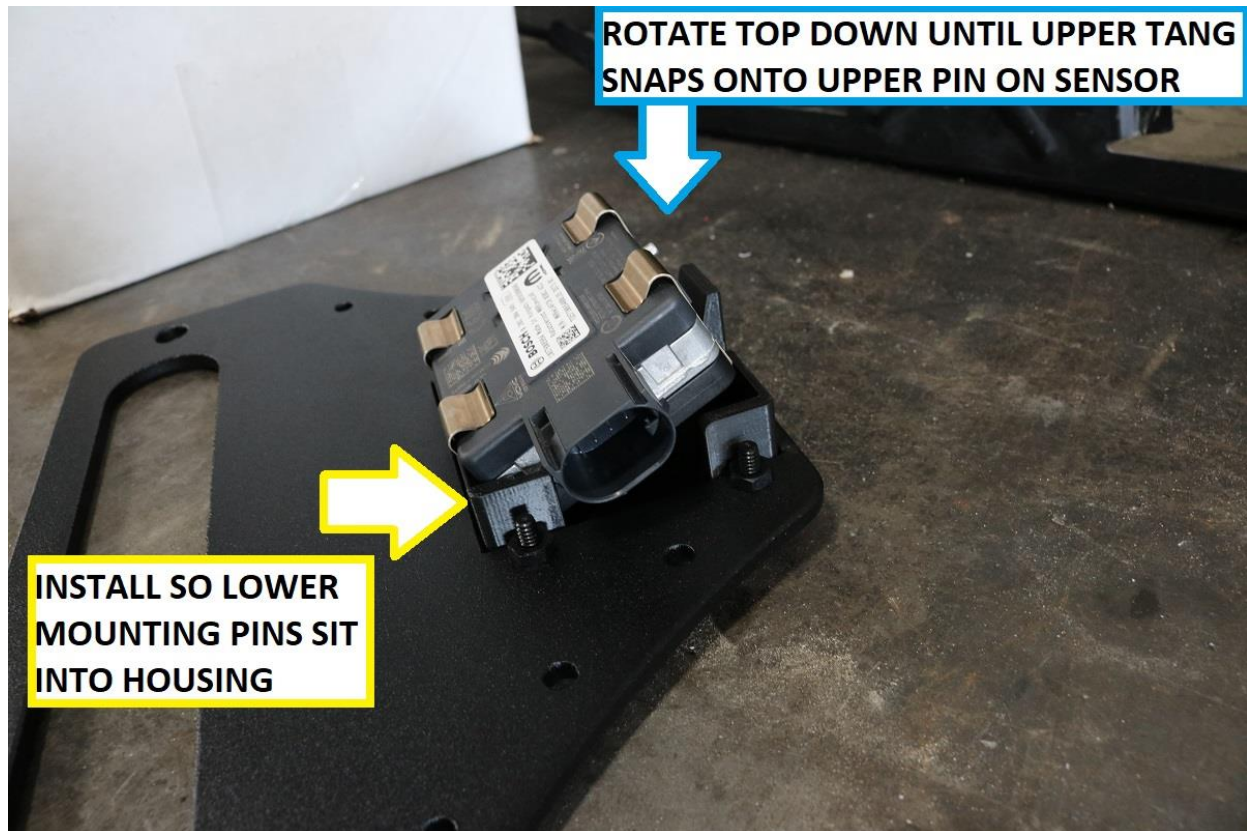
- 44) At this point, test fit the bumper cover and perform any final trimming required for the bumper cover / fascia to be re-installed.
- 45) Install the bumper cover onto the vehicle. Re-install the three upper center T-30 torx screws removed in step 13.
- 46) Perform any additional trimming of the grill to clear the winch and power steering cooler. Refer to the images below for reference on trimming around the Superwinch.



- 47) Once trimmed, test fit the grill to ensure access to winch controller. Do not fully install grill at this time.
- 48) Install the 3D printed radar sensor mount into the included fairlead plate as shown.
- The plate is installed with the bend jog going outwards towards the front so the logo should be oriented towards the front as shown below. Secure using the black plastic screws and nuts.



49) Snap the radar sensor into the housing. (Previously removed in Step 16). Locate the lower pins into the 3D printed housing first then rotate the top into position until it snaps into place. See image below for reference.



50) Feed the winch rope through the fairlead radar sensor bracket and fairlead.

- a. Install the fairlead radar sensor bracket between the fairlead and winch mount. Again, make sure the radar sensor bracket jogs outwards away from the vehicle to clear the front bumper fascia.
- b. Bolt the fairlead and radar bracket to the winch mount using the M12-1.75 x 30mm long bolts provided. Use a washer under the bolt head and M12 nut nylock included with your winches hardware kit to secure.

51) At this point plug the radar sensor wiring into the sensor itself, route the wiring in a manner that won't interfere with the winch rope when in use. Separate wire loom / clips if needed and ziptie as needed to secure.

52) Re-install the remaining bumper cover hardware, headlights, inner fender liners and plastic underbody guard back onto the vehicle in the reverse order of removal. Reference steps 1-15 if needed.

53) Use some of the factory license plate mounting hardware to secure the trimmed license plate bracket onto the vehicle. If longer screws are needed, use standard self-tapping screws to secure.

- a. Note some additional trimming along the top of the license plate mount will help fit it even tighter to the bumper cover around the radar sensor bracket.
- b. See image below for reference.



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.