4061 – 2013-PRESENT, RAM PROMASTER, FRONT WINCH MOUNT

Version 1.1

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.
- 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.
- Relocation of the power steering cooler is required. The power steering fluid reservoir will need to be refilled once installation is complete. Pentosin CHF 11S Power Steering Fluid is required.
- 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 farileads. 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 winch also fits and is documented in these instructions.

Parts List

4061 – 2013-PRESENT, RAM PROMASTER, FRONT WINCH MOUNT

- (1) 4061-01 RAM PROMASTER, FRONT WINCH MOUNT
- (1) 4061-02 RAM PROMASTER, FRONT WINCH MOUNT, DRIVER SIDE RE-ENFORCEMENT BRACKET
- (1) 4061-03 RAM PROMASTER, FRONT WINCH MOUNT, FRONT RECEIVER HITCH
- (1) 4061-04-LH RAM PROMASTER, FRONT WINCH MOUNT, PASSENGER SIDE RE-ENFORCEMENT BRACKET, OUTER
- (1) 4061-04-RH RAM PROMASTER, FRONT WINCH MOUNT, PASSENGER SIDE RE-ENFORCEMENT BRACKET, INNER

- (1) 4061-05 RAM PROMASTER, FRONT WINCH MOUNT, POWER STEERING RELOCATION BRACKET
- (7) HC8-7-10 7/16-14 X 1.0" LONG, HEX HEAD BOLT
- (4) HC8-7-20 7/16-14 X 2.0" 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

Tools Needed

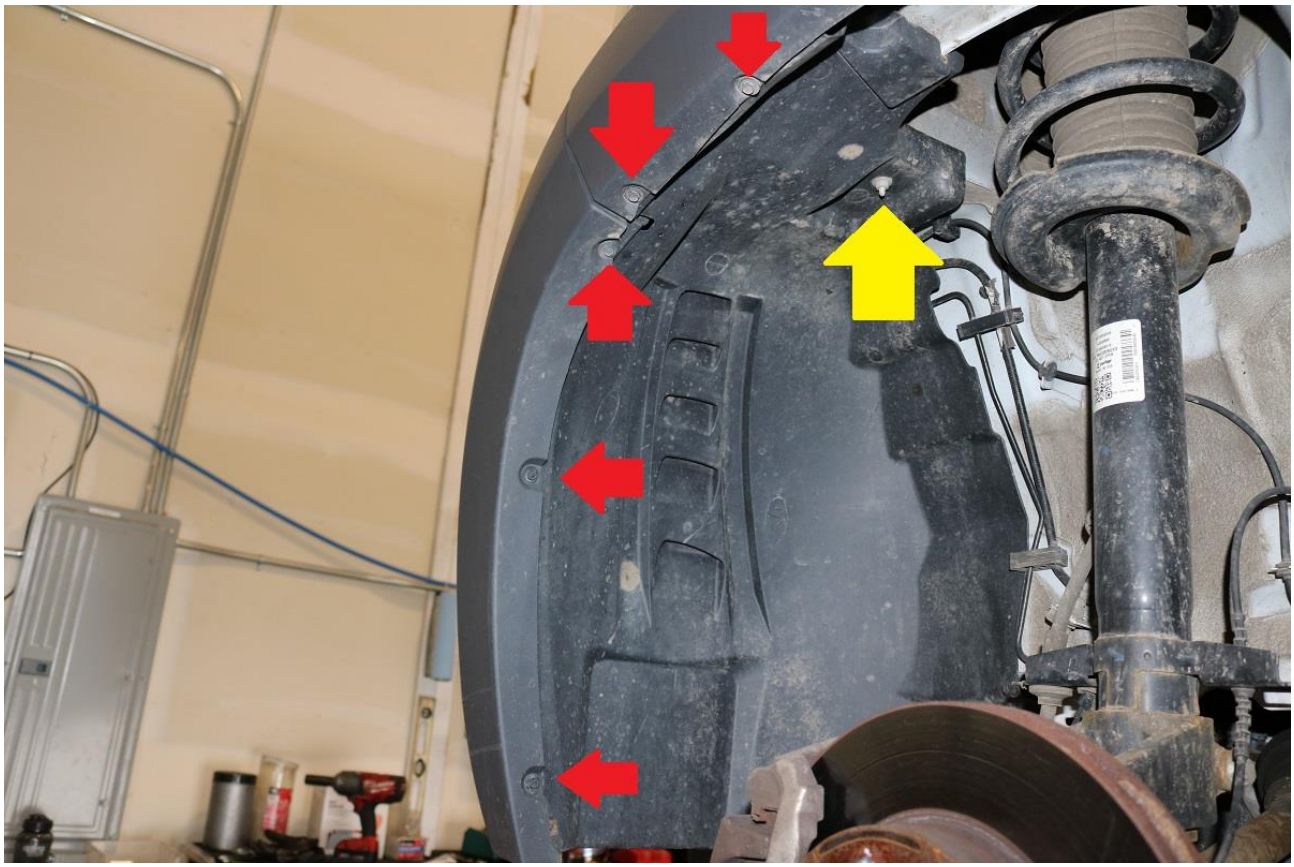
- Simple hand tools:
    - Basic wrench and socket set:
        - T30 Torx bit
        - Metric sizes: 8mm, 10mm, 13mm, 15mm,
        - Phillips screwdriver
- Automotive trim removal tool
- Floor jack and jack stands (optional but strongly recommended)
- Drill with quality ½" drill bit or step drill
- 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

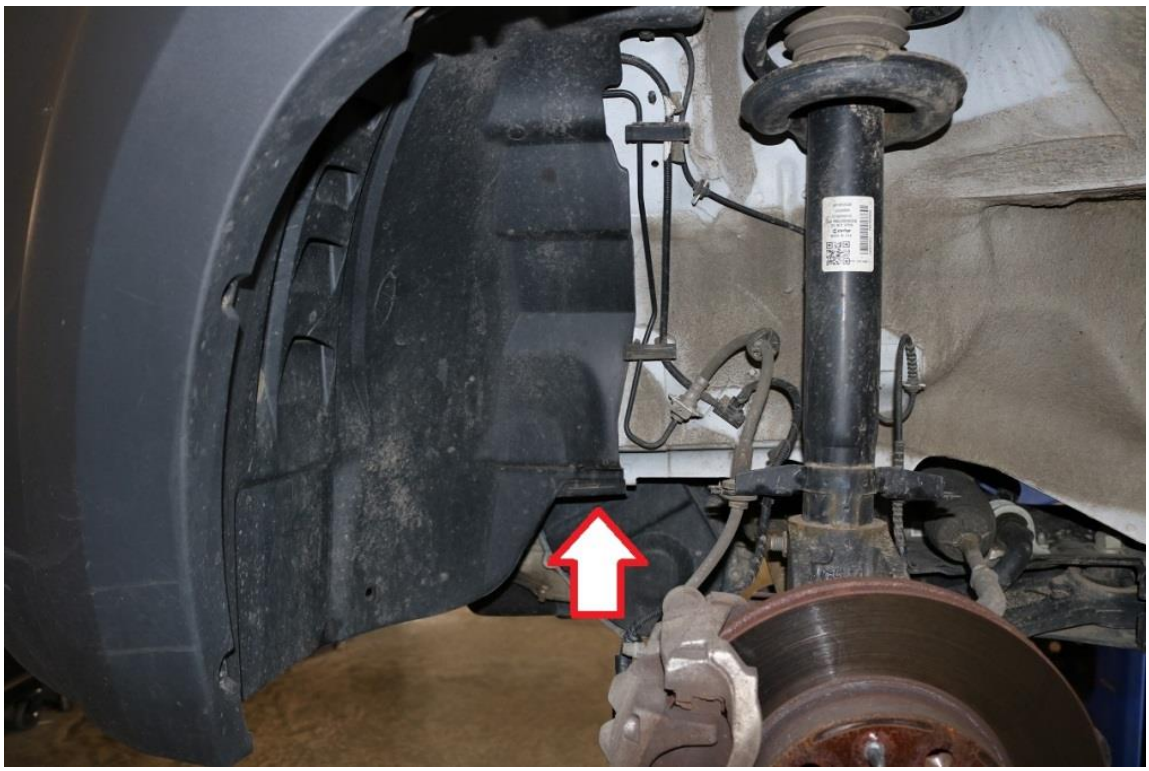
- 6-7 hours (Note-this is an estimated time frame depending on complexity of winch wiring. Some vehicles will be easier to wire the winch than others.)

Installation

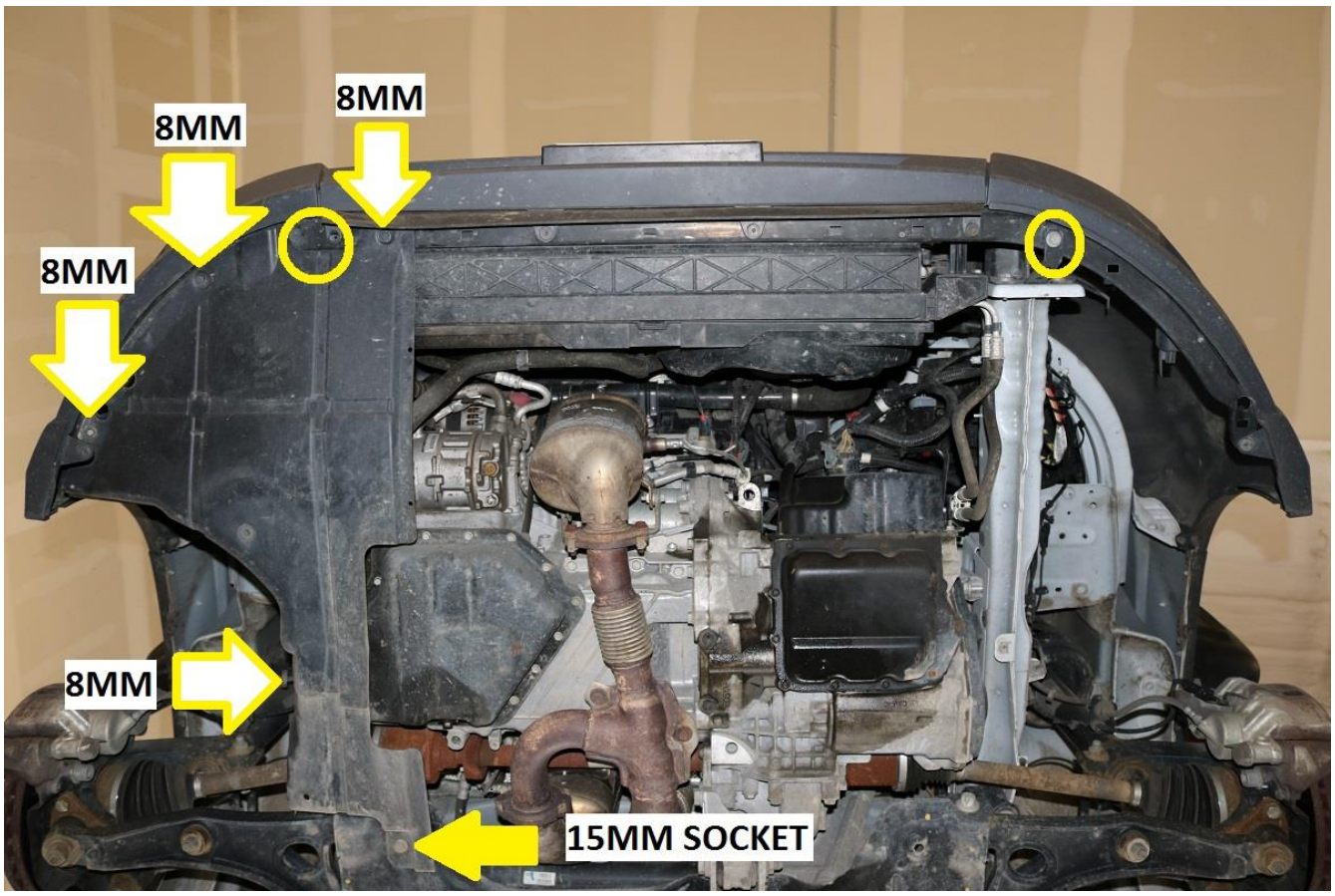
1) To begin, the front inner fender liners need to be removed. While it is not necessary to remove the front wheels to do this, it does make accessing and removing the inner fender liners much easier. The front tires of the vehicle have been removed in these instructions for photographic purposes.
2) 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.



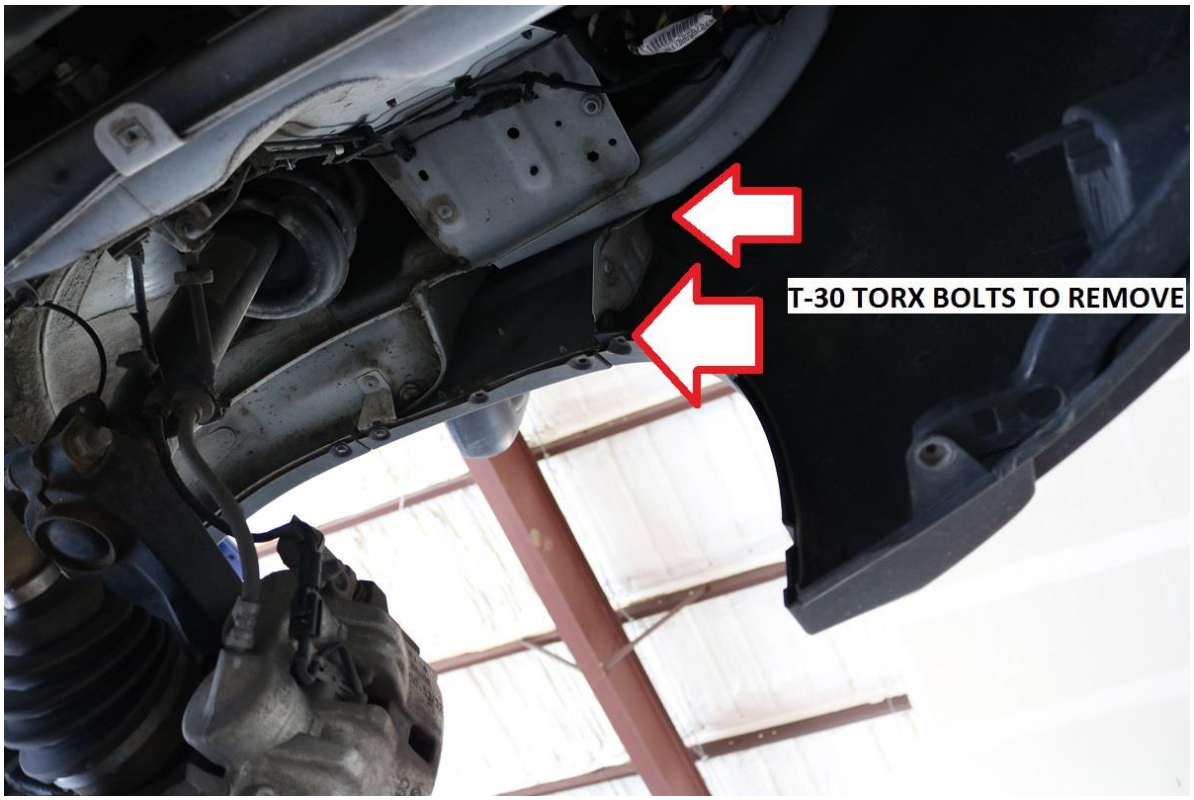
5) There is one remaining 8mm fastener on the driver side securing the inner fender liner to the vehicle. It is located on the bottom of the chassis shown in the image below. Remove this screw and remove the inner fender liner from the vehicle.
    a. Note on the passenger side (right hand) of the vehicle 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.



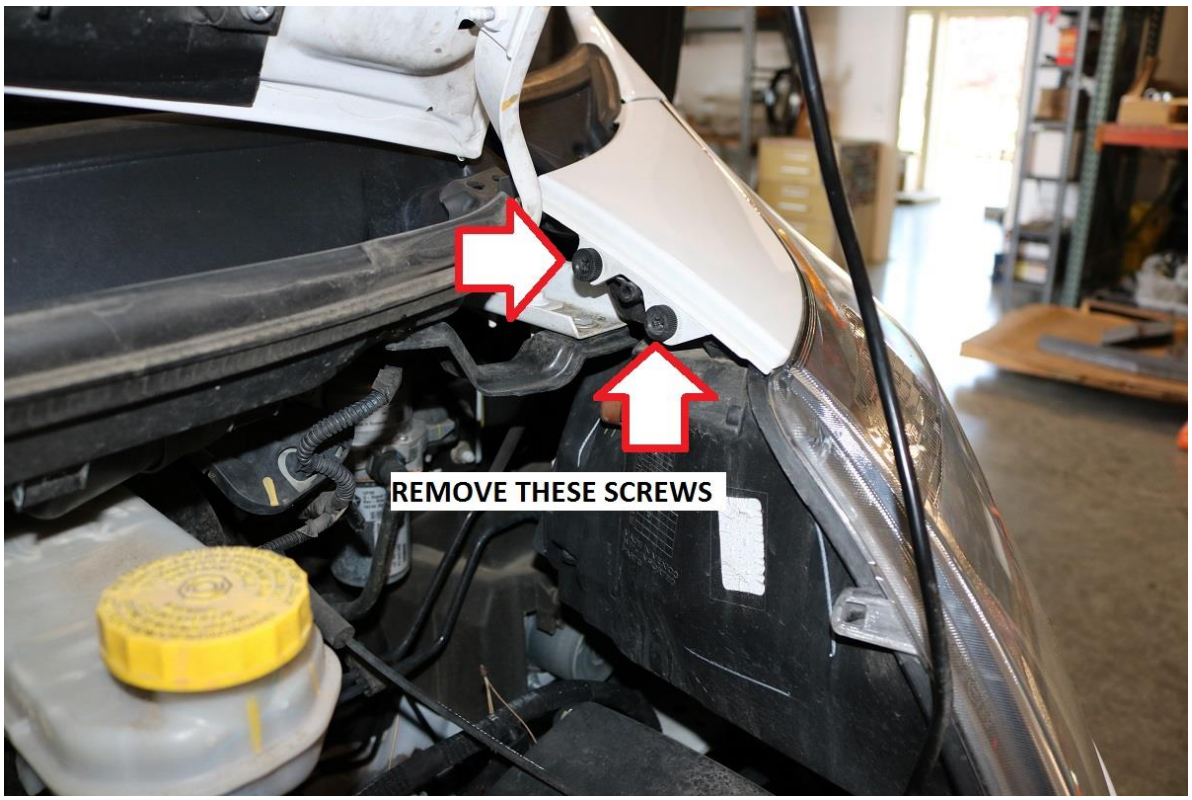
6) On the underside of the front bumper, use the same 8mm socket to first remove the plastic under body guard on the passenger side. A 15mm socket / wrench is needed to remove the larger fastener towards the rear of the vehicle.
    a. Note, on the passenger side (right hand) of the vehicle there is one additional 8mm screw connecting the underbody plastic to the inner fender liner.
    b. 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.
    a. If the vehicle is equipped with fog lights, disconnect them from behind the bumper cover at this time.



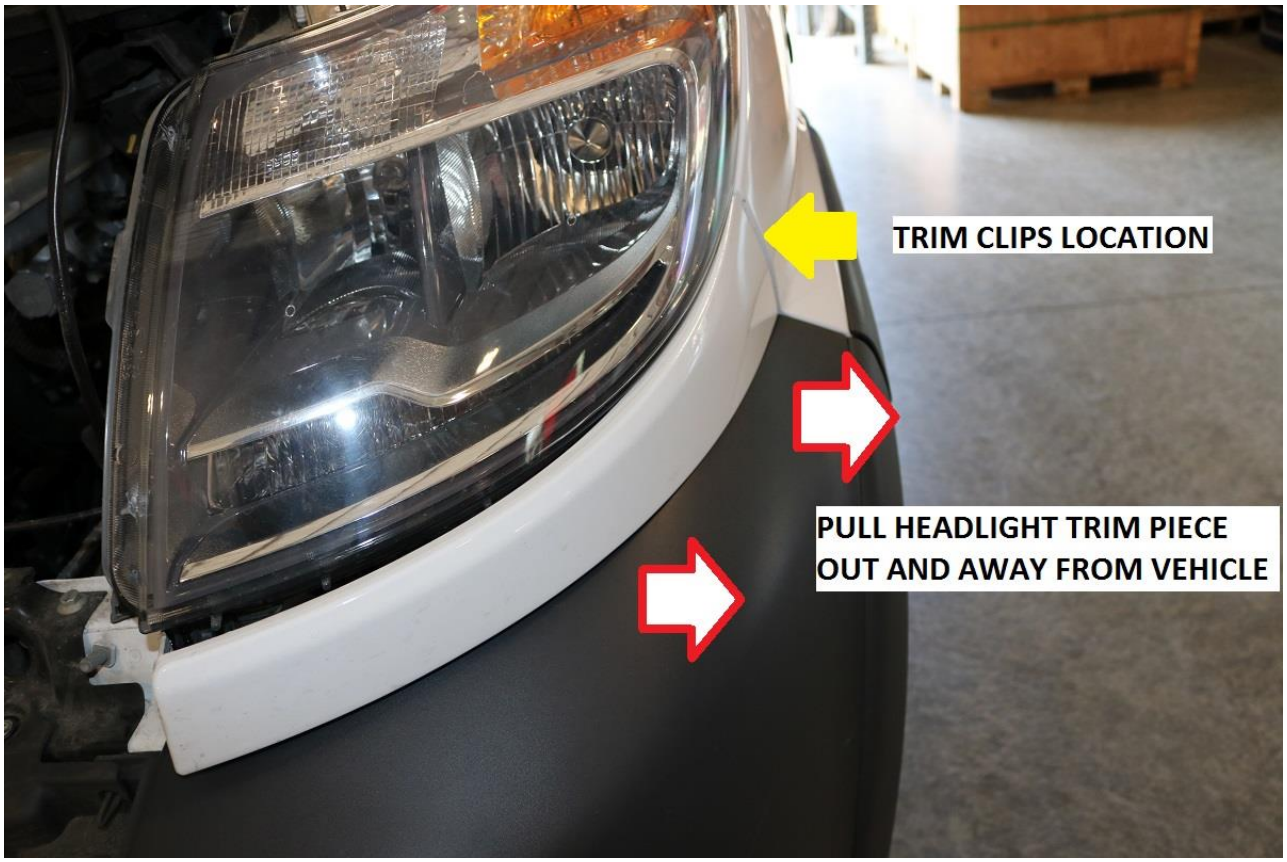
8) Open the hood of the vehicle and locate the two thumb screws which secure the upper headlight trim to the vehicle. These can usually be unthreaded by hand but a Phillips screwdriver may be needed in some instances. See image below for reference.



9) The upper headlight trim panel is held on by two barb style plastic fasteners on the underside. Lift upwards on the panel to free it from the vehicle. The image below shows the underside of the panel for reference on the location of the fasteners.

10) Remove the lower headlight trim panel by first locating the Phillips head screw along the inner edge of the headlight.

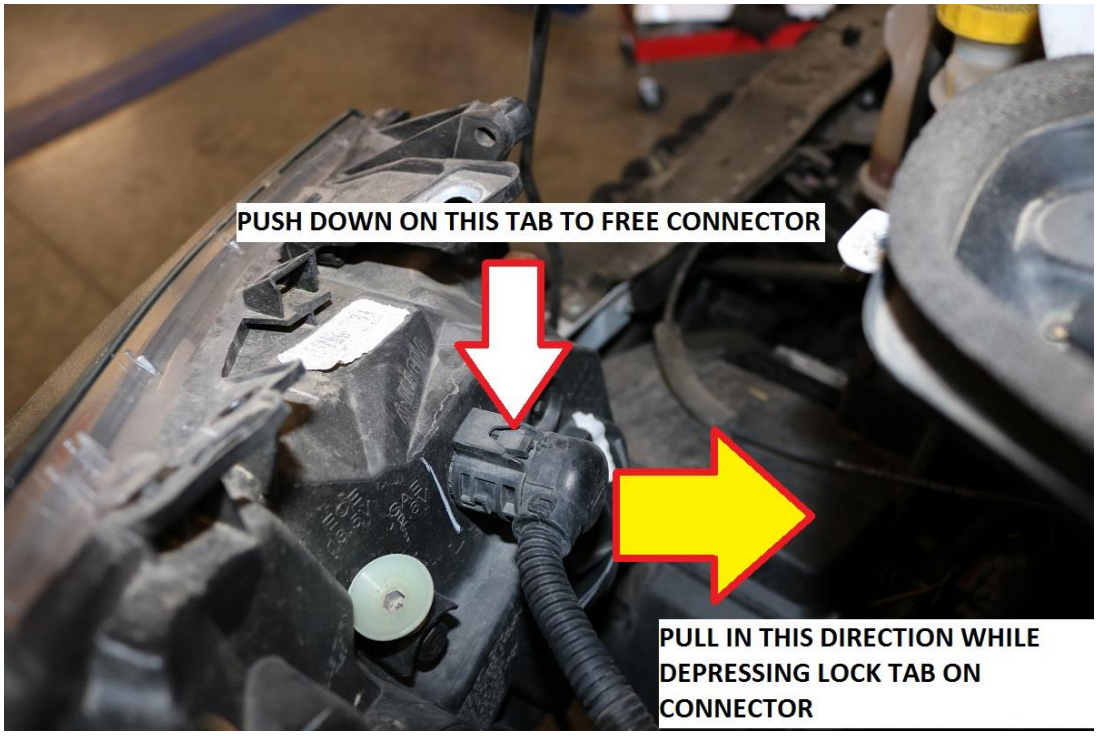
11) Pull the lower headlight trim away from the vehicle carefully. There are two trim clips towards the outer back edge of the head lamp. Try to support near this area as you pull away from the vehicle.



12) Use a 10mm socket / wrench to remove the three bolts securing each headlamp to the vehicle. The bolt locations are denoted by the arrows in the image below.

13) Once the three bolts are removed, pull the headlamp straight forward to unseat the push pin securing it to the vehicle.

a. Unplug the connector at the back of the headlamp once it is accessible. Push down on the lock tab and simultaneously pull the connector free of the headlamp. See image below for reference.

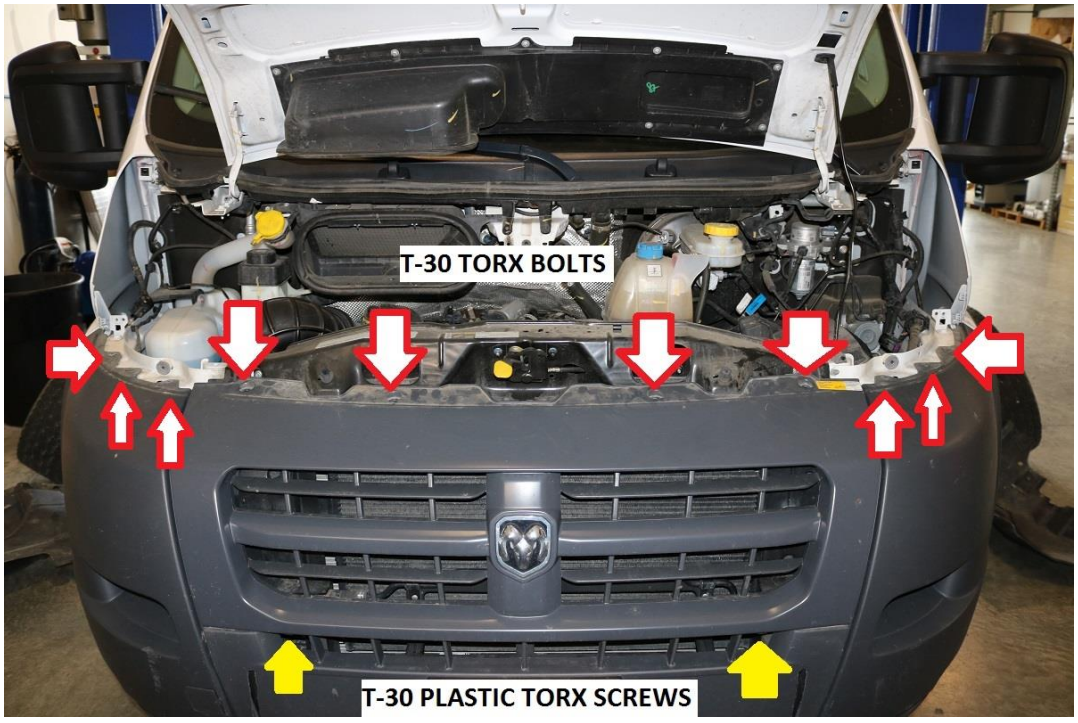


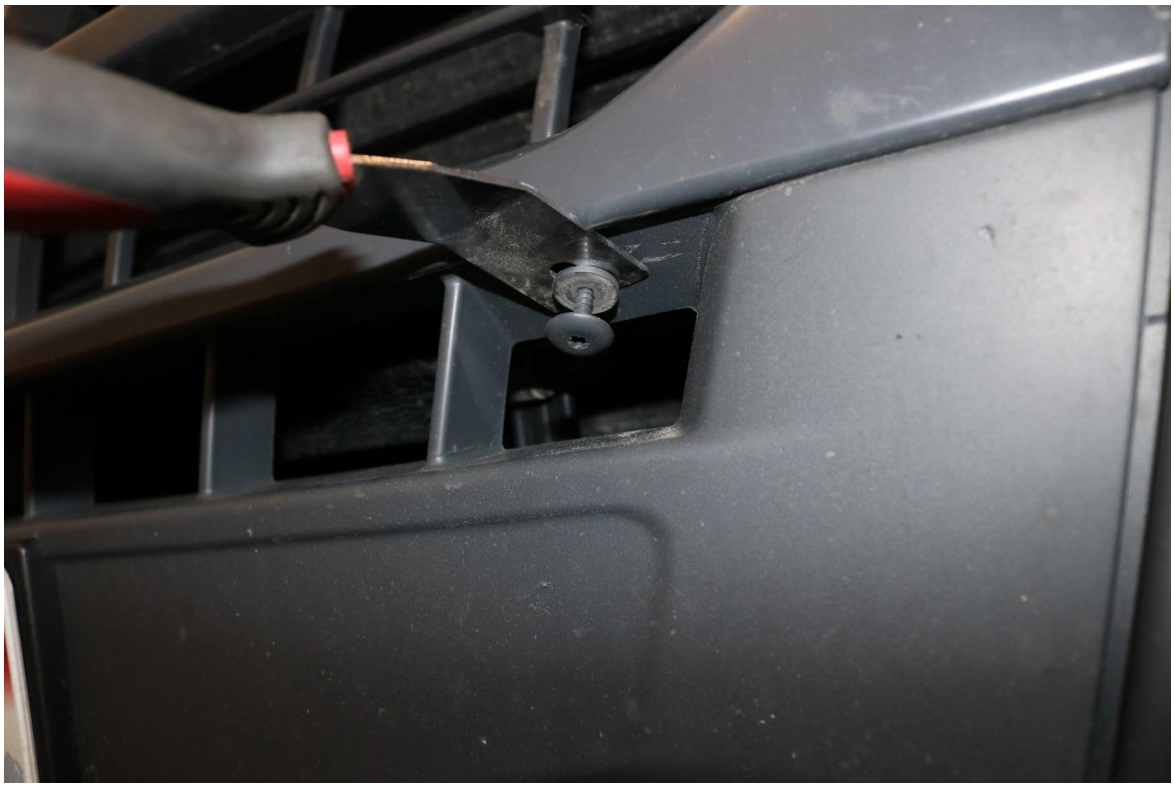
14) Set headlamps aside in a location where they will not be damaged.

15) Use a T-30 torx bit to remove the 10 upper bolts across the top of the plastic bumper / grill.

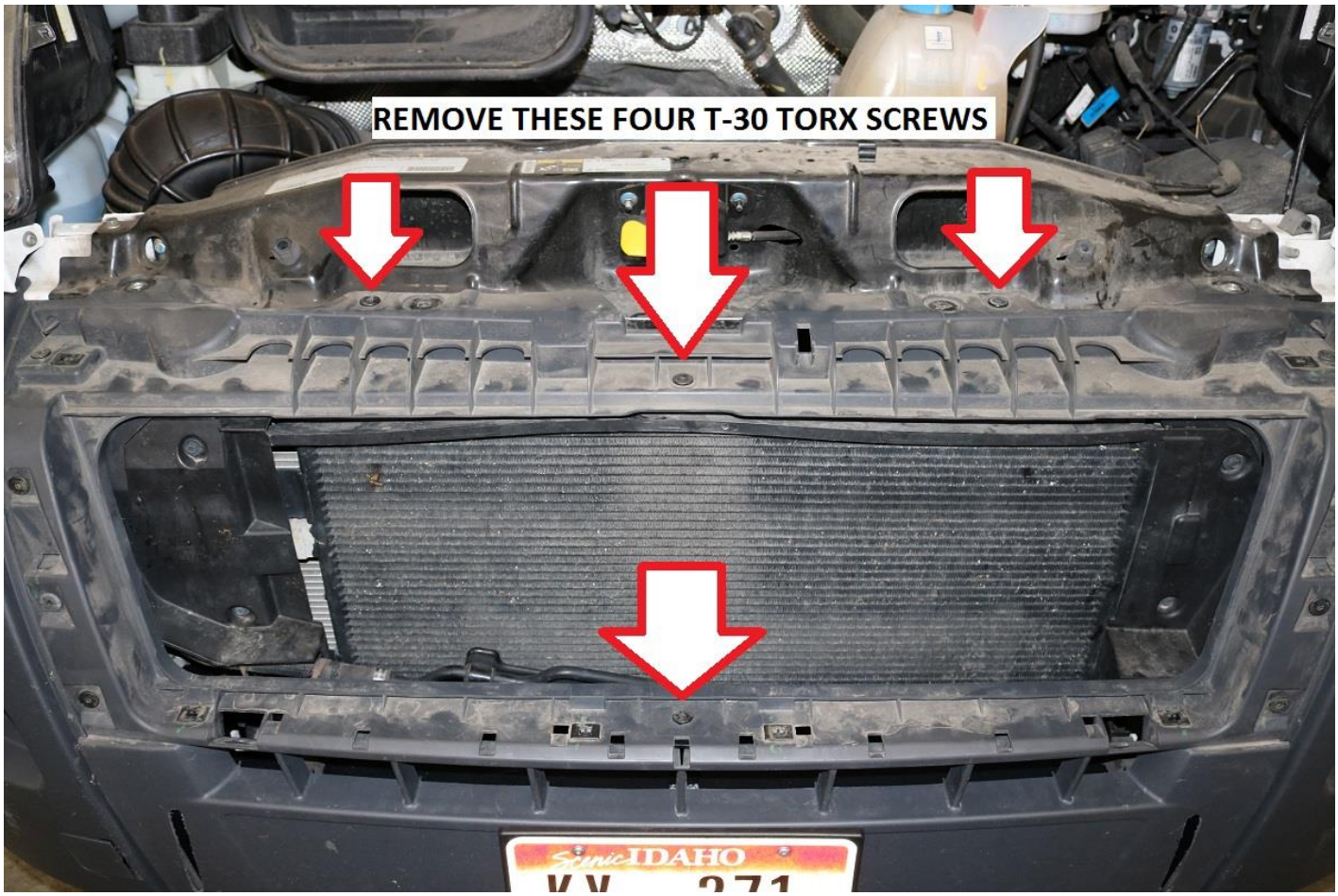
a. Locate the two T-30 plastic torx screws in the middle of the bumper. Remove the center screw and use an automotive trim removal tool to pull the barb fitting out of the bumper.

b. See images below for reference.

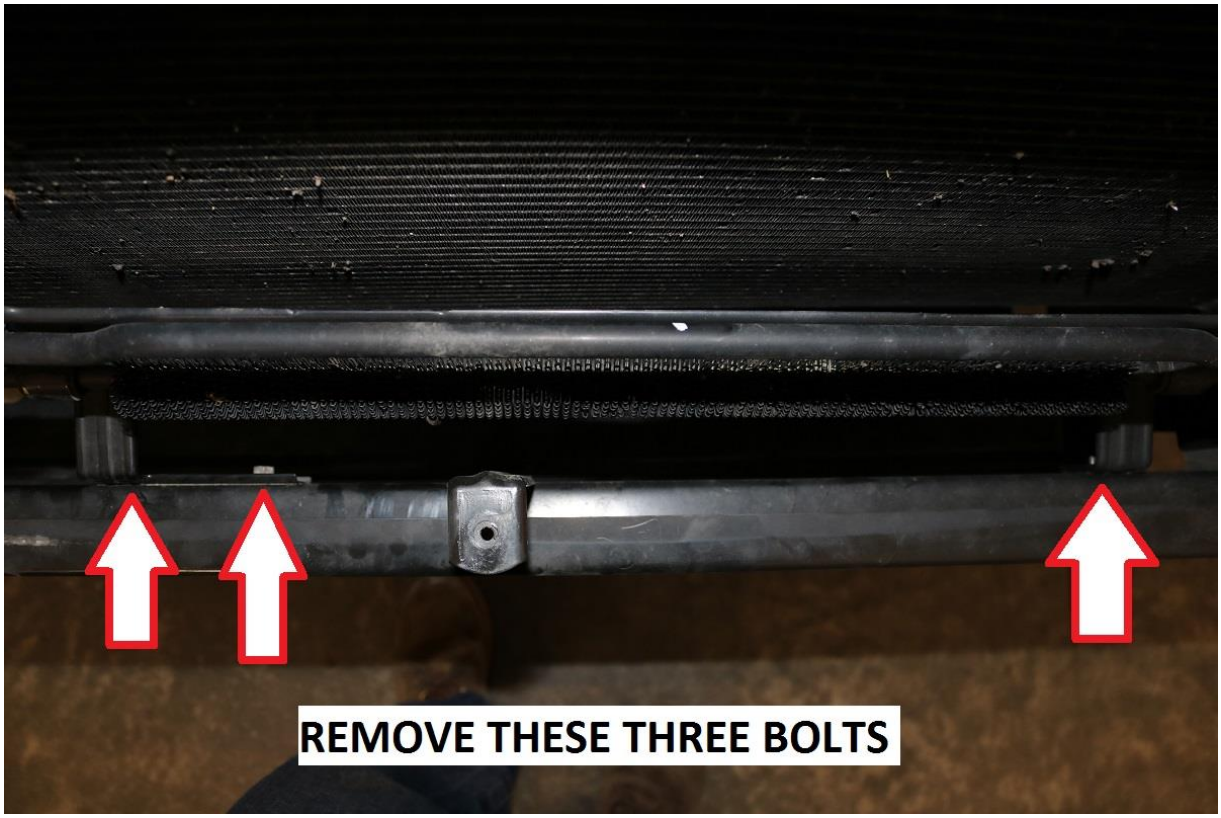




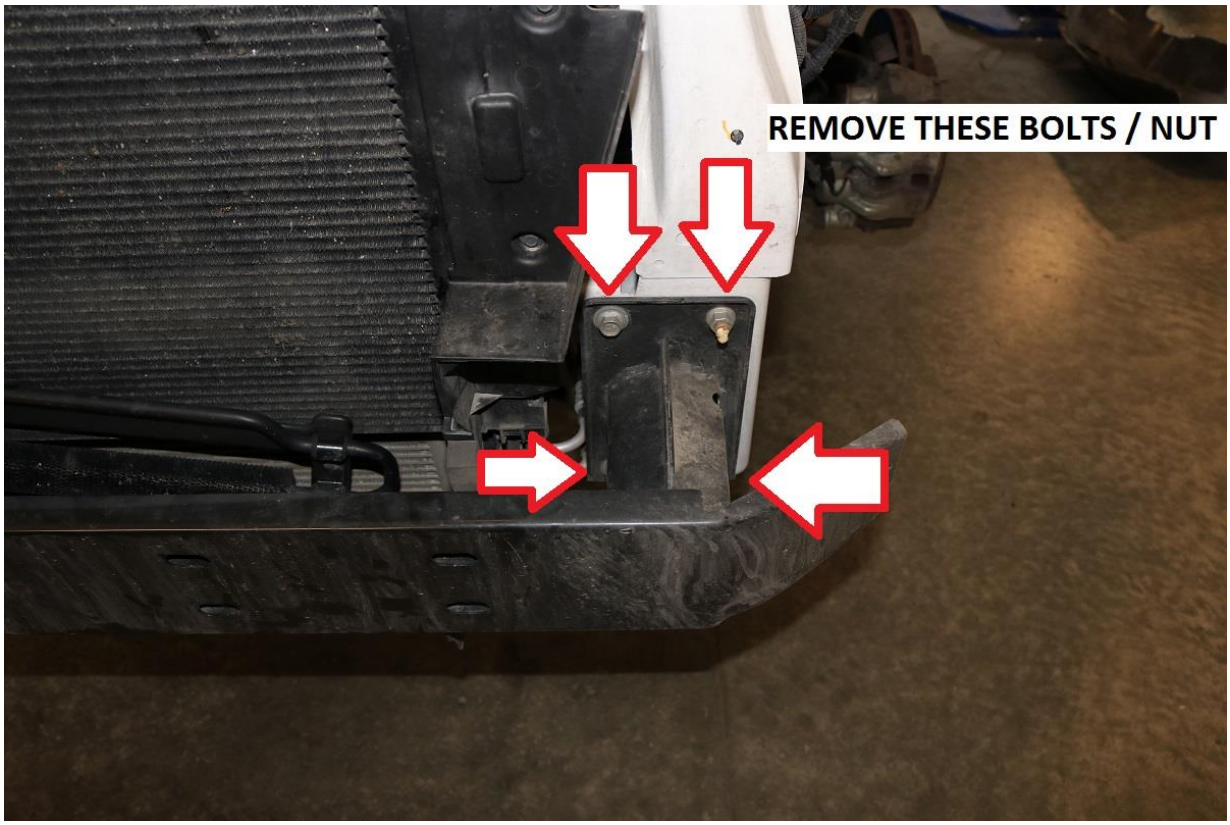
16) Remove the center grill by pulling it straight up and slightly outwards from the vehicle. There are two barb style plastic clips lightly holding it to the vehicle.
17) Once the grill is removed, remove the four remaining T-30 torx screws securing the bumper cover to the vehicle. See image below for reference.



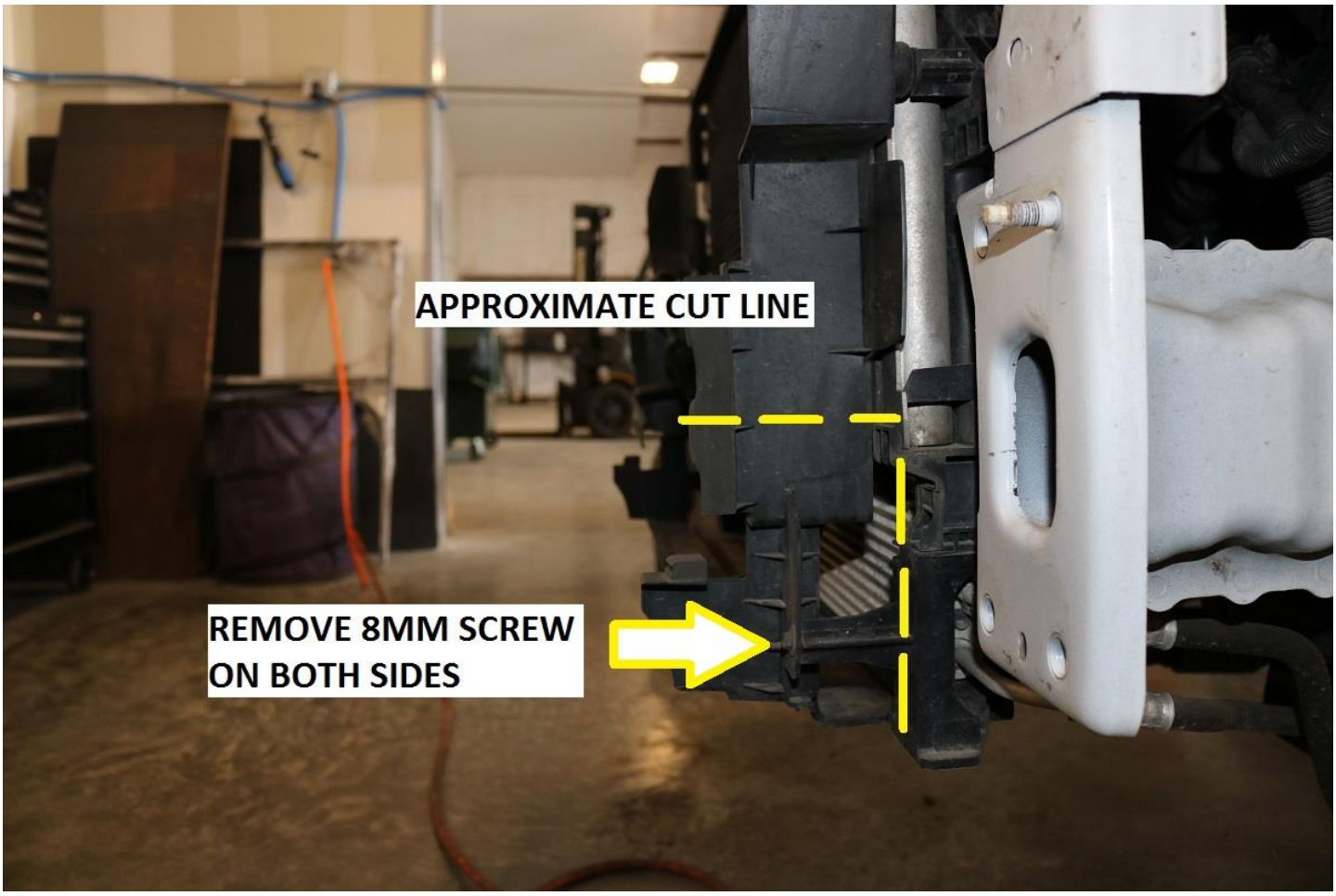
18) The plastic bumper cover / front fascia can now be pulled straight forward away from the vehicle.
19) Locate the three bolts securing the transmission cooler to the back of the steel bumper. Use a 10mm socket / wrench to remove the bolts and free the transmission cooler from the bumper.
    a. Let the transmission cooler hang free at this time.

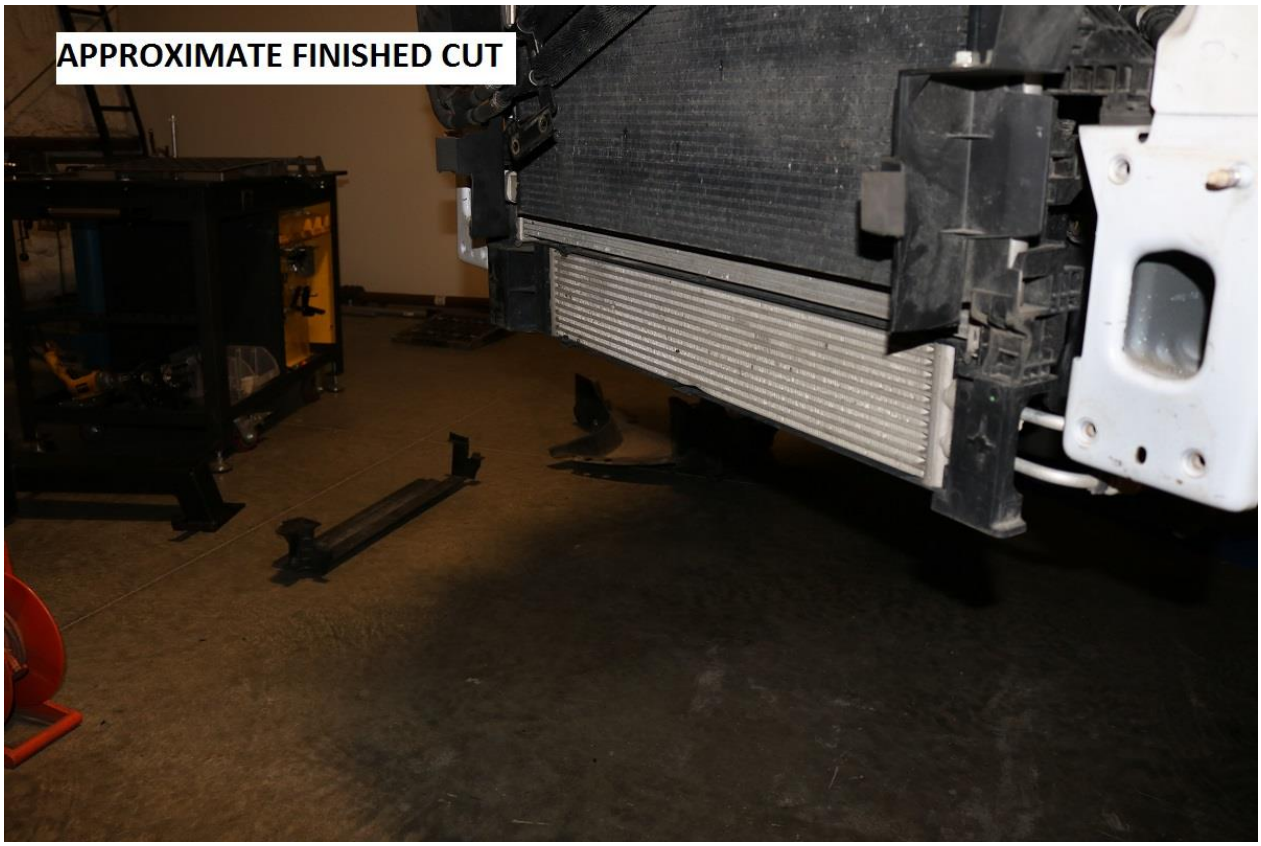


20) Locate the 3 bolts and one nut on each side of the vehicle which secures the front bumper to the chassis. Remove all four fasteners with a 15mm socket and remove the bumper from the vehicle.

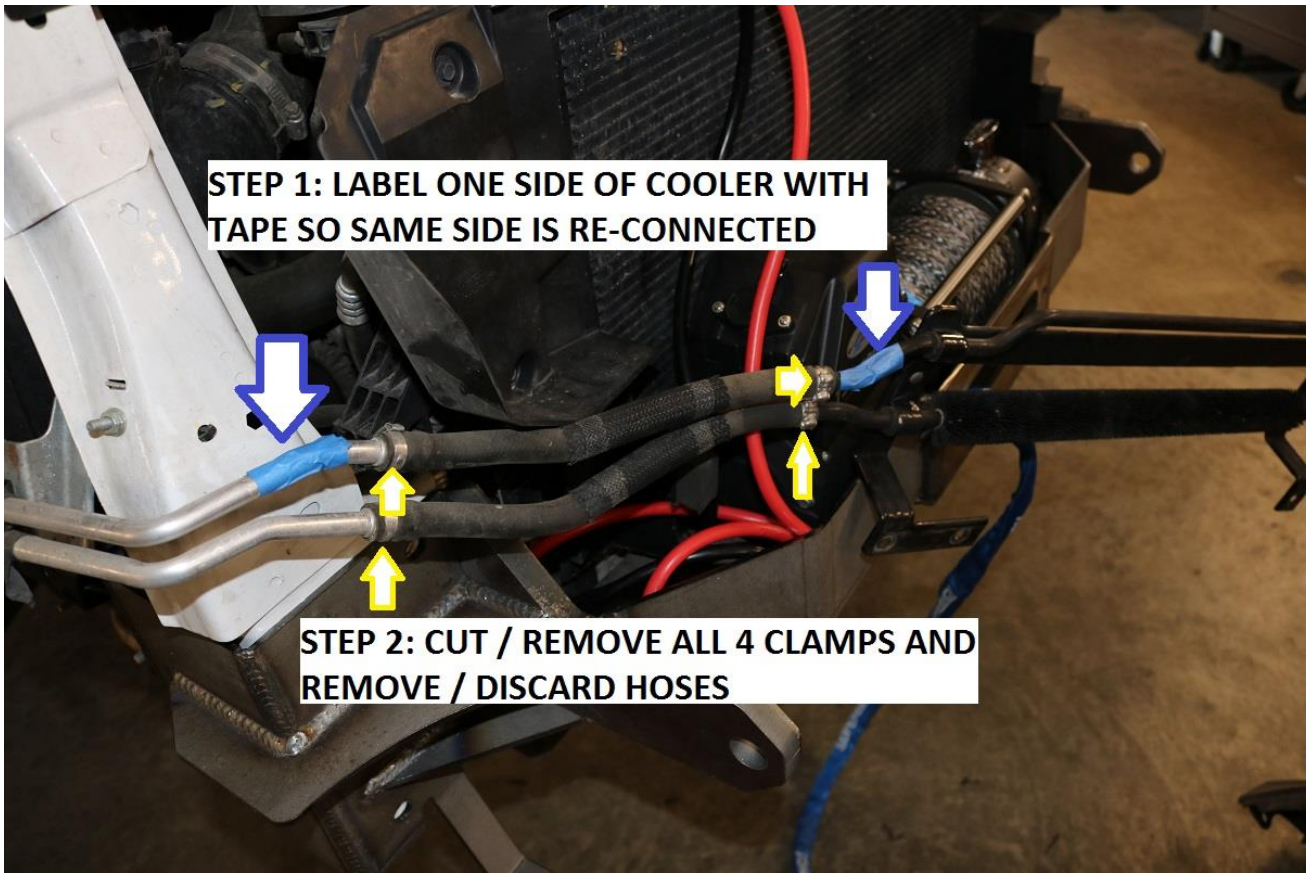


21) Use a small pneumatic cut off wheel, or similar tool suitable for trimming plastic to trim the inner air damn plastic to fit the front hitch.
    a. Cut straight up along the edge of the plastic corner gussets. Cut up to the third corner gusset from the bottom. See approximate cut lines in image below and finished cut in second image.
    b. 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.
    c. Once horizontal cut is made, cut the lower threaded protrusions flush as show.
    d. Deburr any rough plastic edges with a sanding attachment or file.

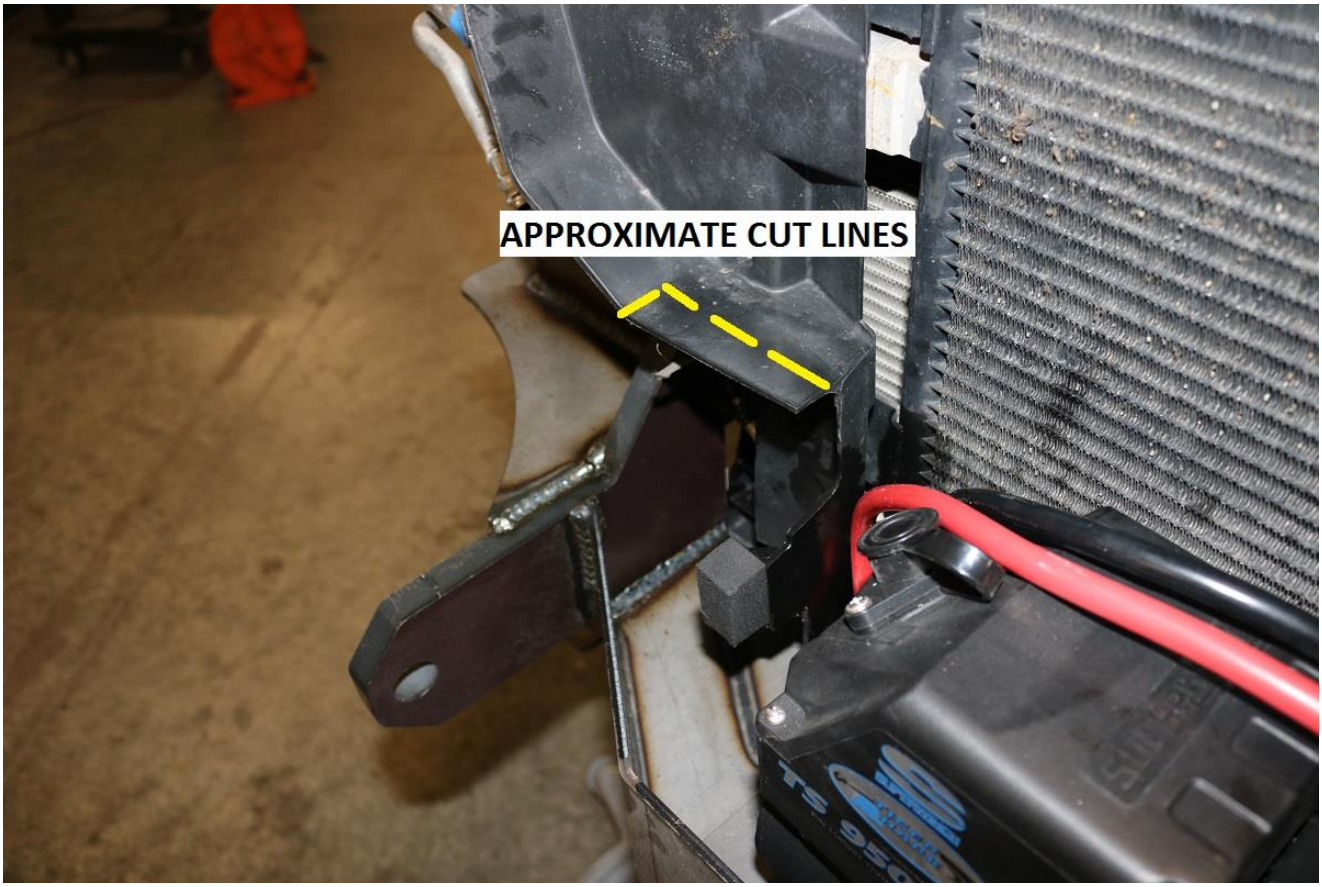


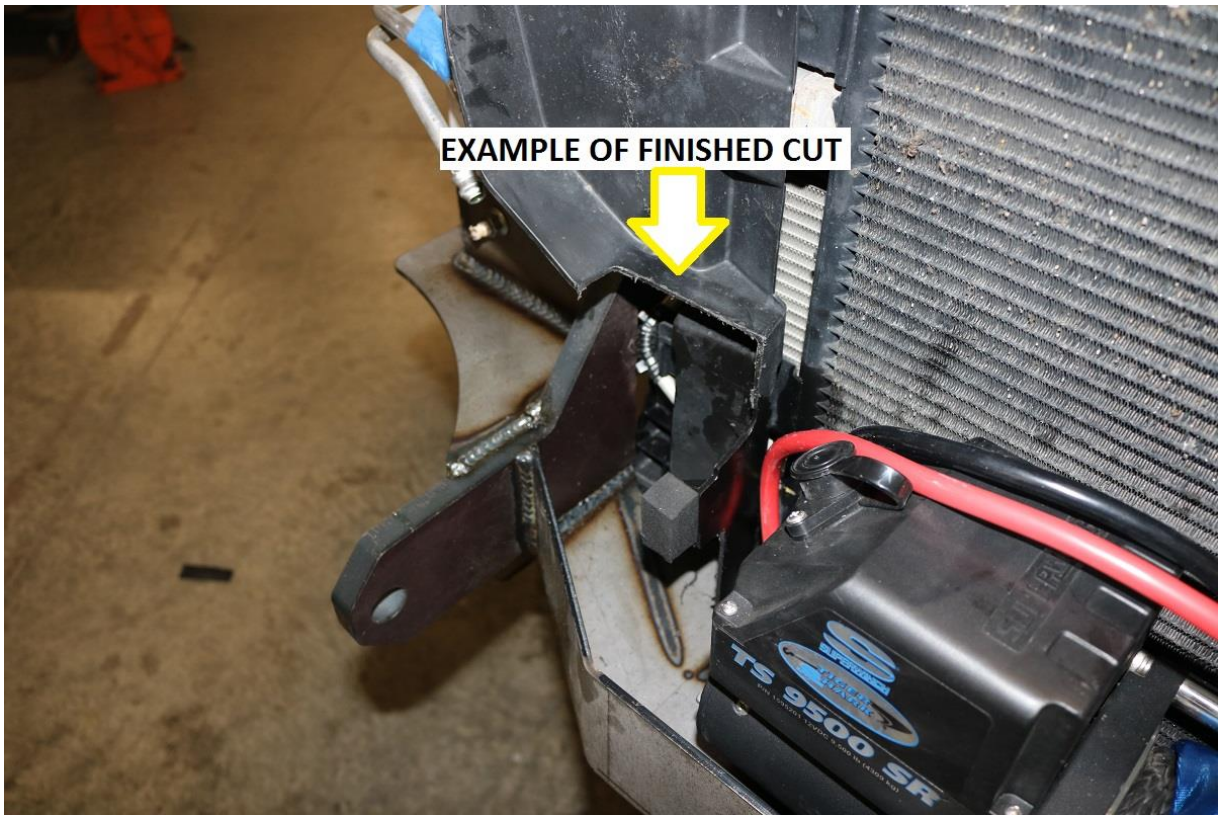


22) Next, prepare an oil drain pan and remove the hoses connecting the power steering cooler to the vehicle.
    a. First, label one side of the power steering cooler as shown so the same ports are hooked up later when we reconnect. Some tape works well for this.
    b. Next, cut / remove the clamps securing the hoses to the cooler / chassis hard lines and remove the cooler.
    c. See image below for reference.



23) Once the power steering reservoir has drained, trim the plastic inner air damn as shown below.

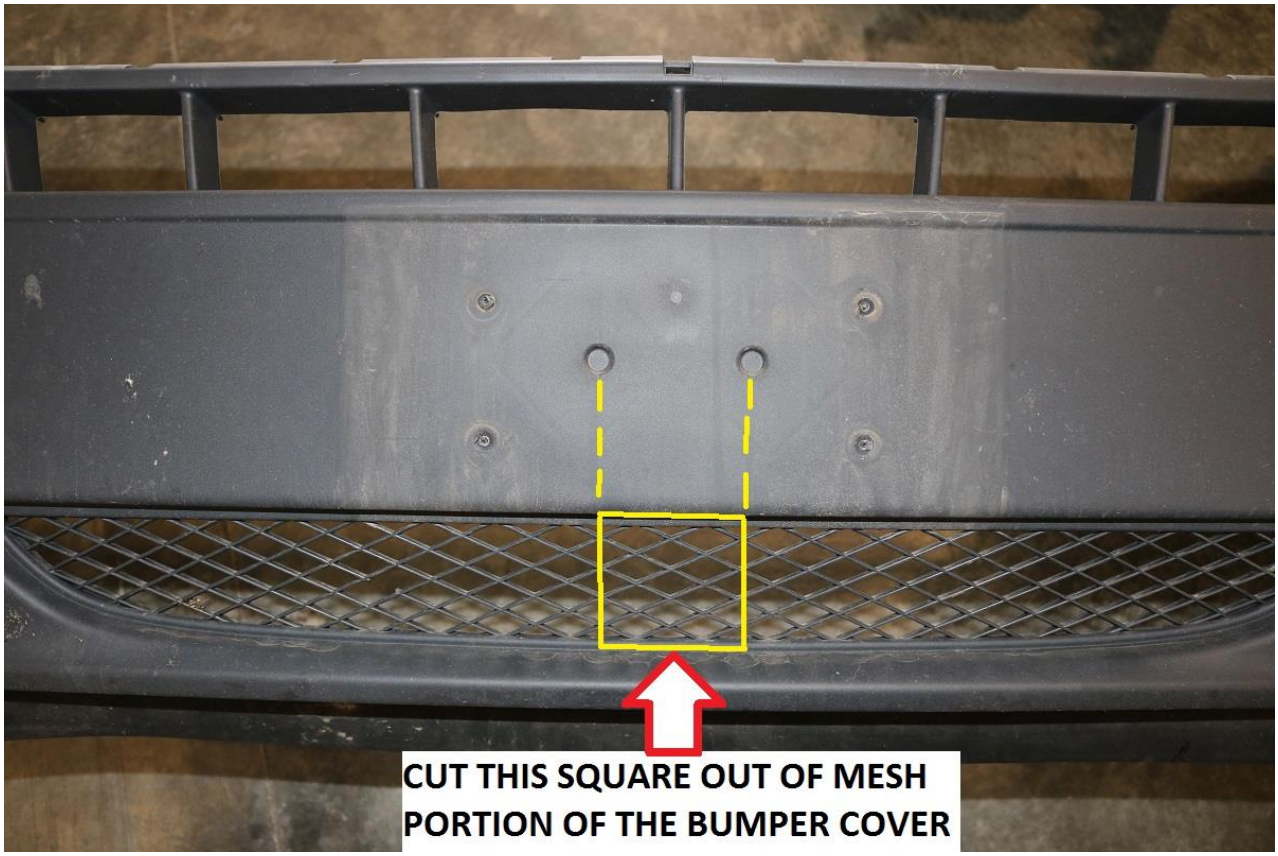


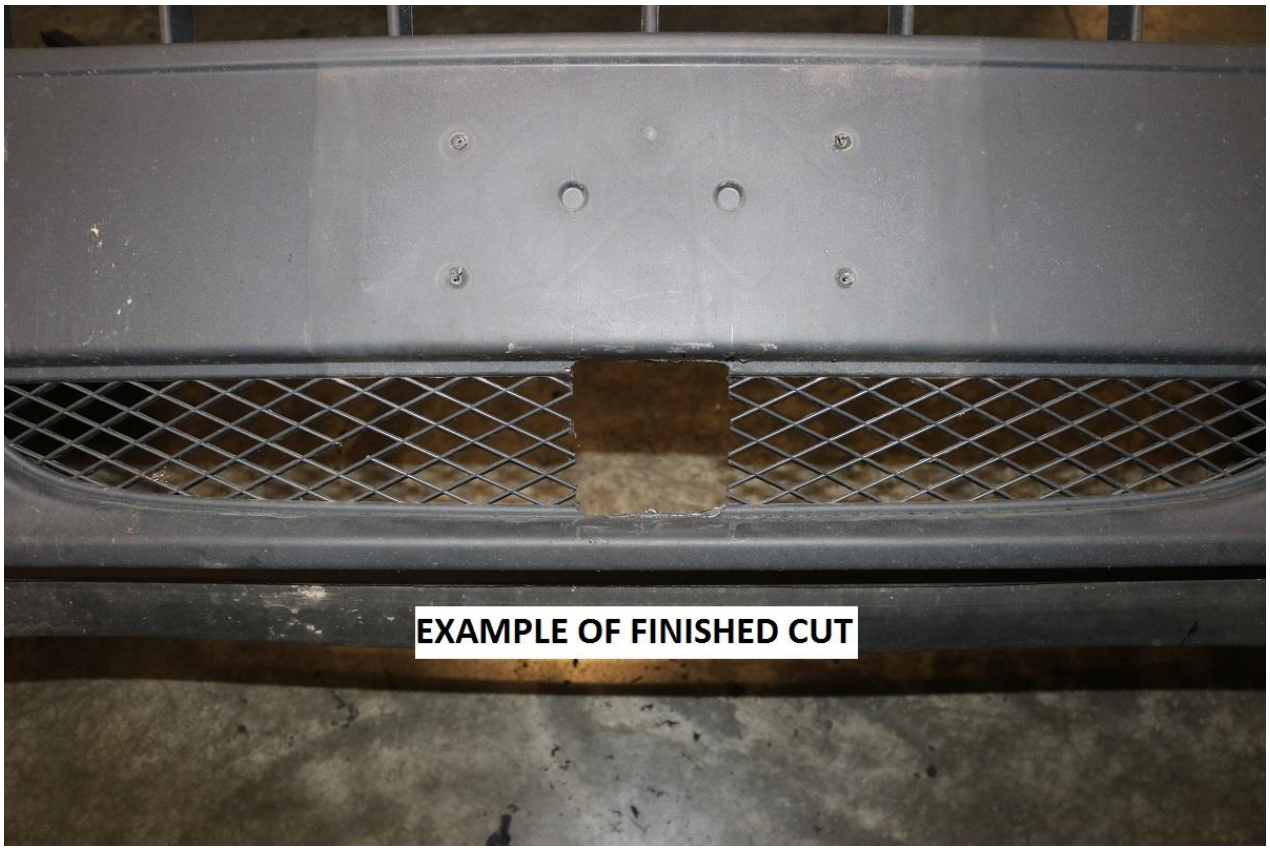


24) Fit the front winch mount to the vehicle using the hardware removed in step 20. The winch mount needs to install from the bottom and brought upwards to fit around the front frame horns of the chassis.
    a. Install the nut on each side first to hang the hitch on the vehicle, and then install all 3 additional bolts per side. Finger tighten bolts until all have been started.
    b. 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)

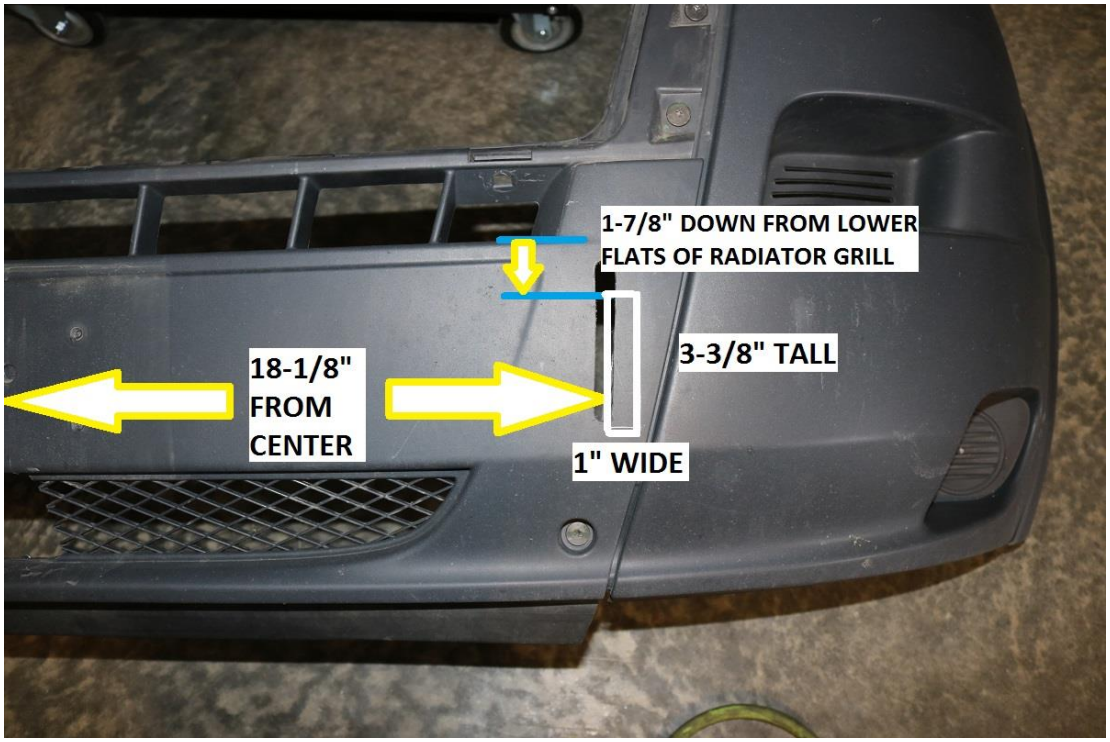
Bumper Cover / Front Fascia Trimming

25) Use a Phillips screw driver to remove the 4 screws securing the license plate to the license plate mount.
    a. Use the same screwdriver to remove the 4 screws securing the license plate mount to the bumper cover.
26) Note all trimming instructions are to be used as a guide; final fitment may vary from vehicle to vehicle.
27) If the front receiver is not being installed, skip to step 28. If installing the front receiver, locate the two circular detents in the middle of the bumper cover. Mark a line straight down on center with these detents to the mesh part of the bumper cover. This is the approximate width of the cut needed.
    a. From there connect, the vertical lines across the bumper as shown below. The cut lines are shown in the image below, with the finished cut shown in the second image for clarity.
    b. Use a small pneumatic cut off wheel, dremel or small body saw to trim the mesh out.
    c. Use a dremel or file to deburr any rough cut edges of plastic.

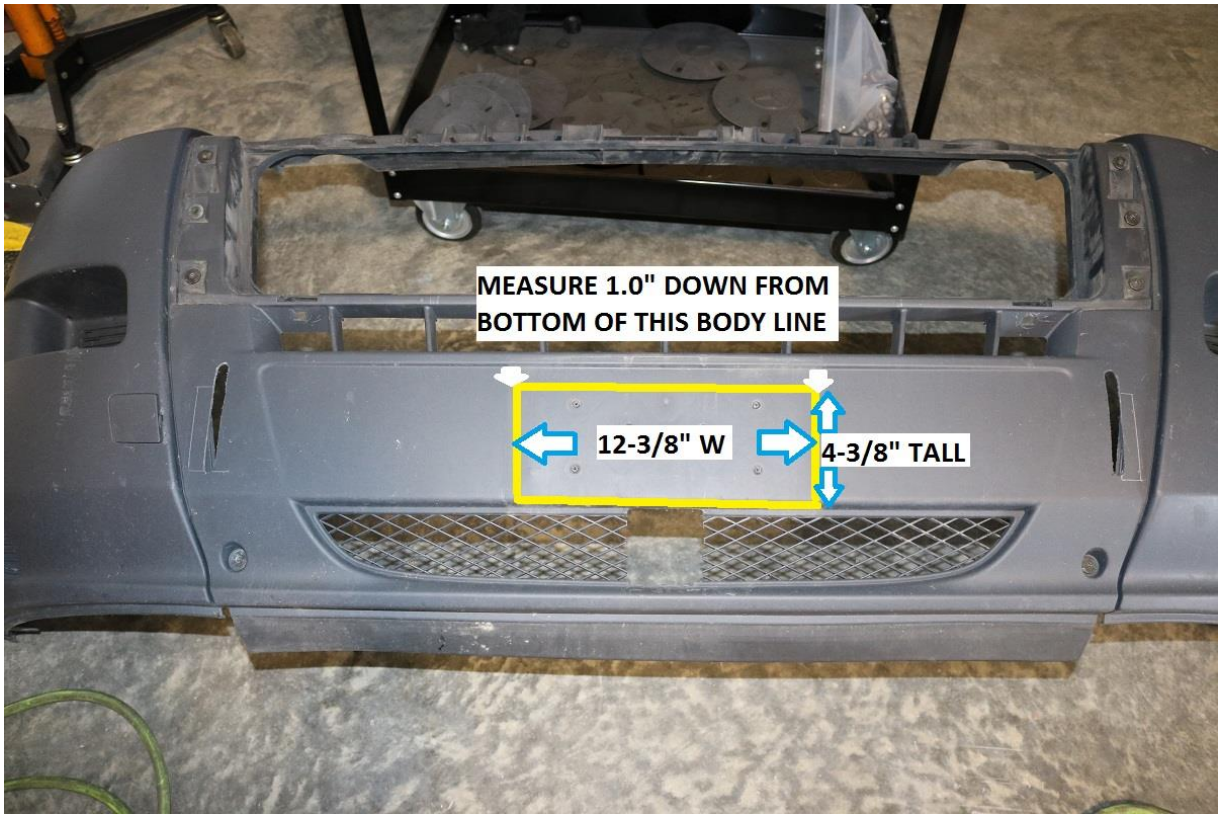




28) Locate the center of the front bumper cover and measure 18-1/8” out from center each direction. Mark a straight vertical line.
    a. Measure 1-7/8” down from the flats of the lower radiator grill opening and mark a horizontal line.
    b. These measurements are the starting point of a vertical rectangle measuring 3-3/8” tall x 1” wide.
    c. See image below for reference.

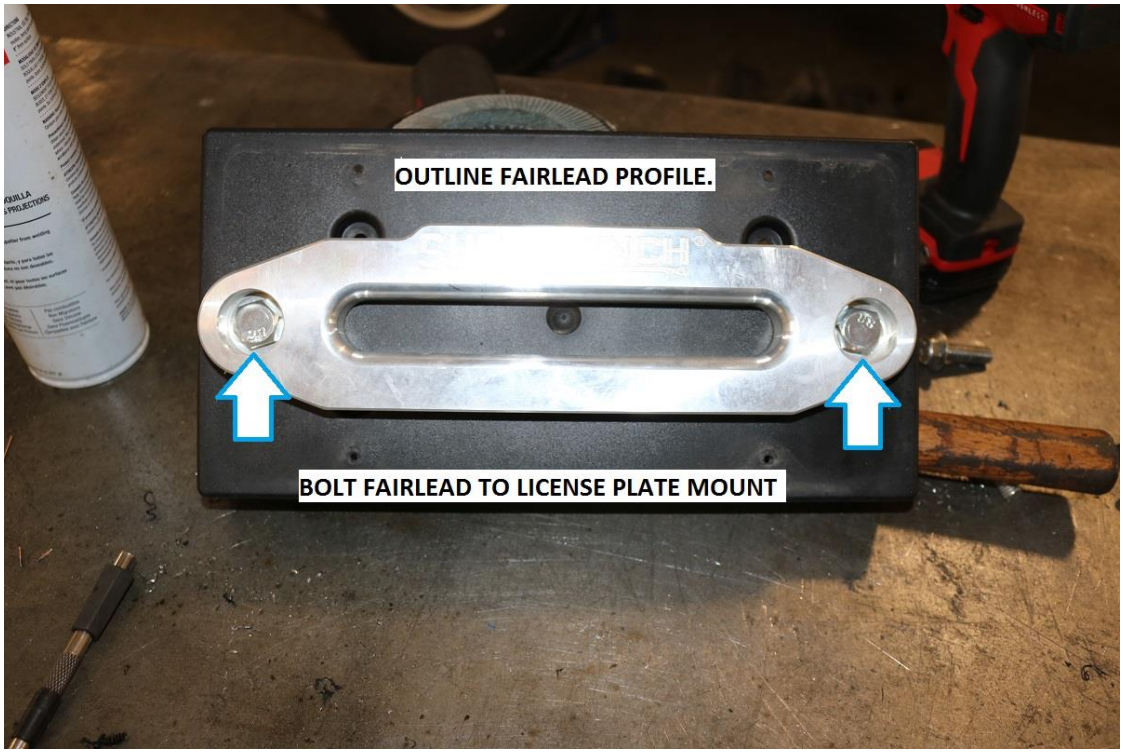


29) Make the rectangular cutouts on both sides for the shackle tow points to protrude through the bumper cover. Use a small dremel or body saw to cut the plastic. It is helpful to drill a 3/8” diameter pilot hole in the corners to make for a cleaner finished cut.
30) Cut the center of the bumper cover out as shown in the image below.

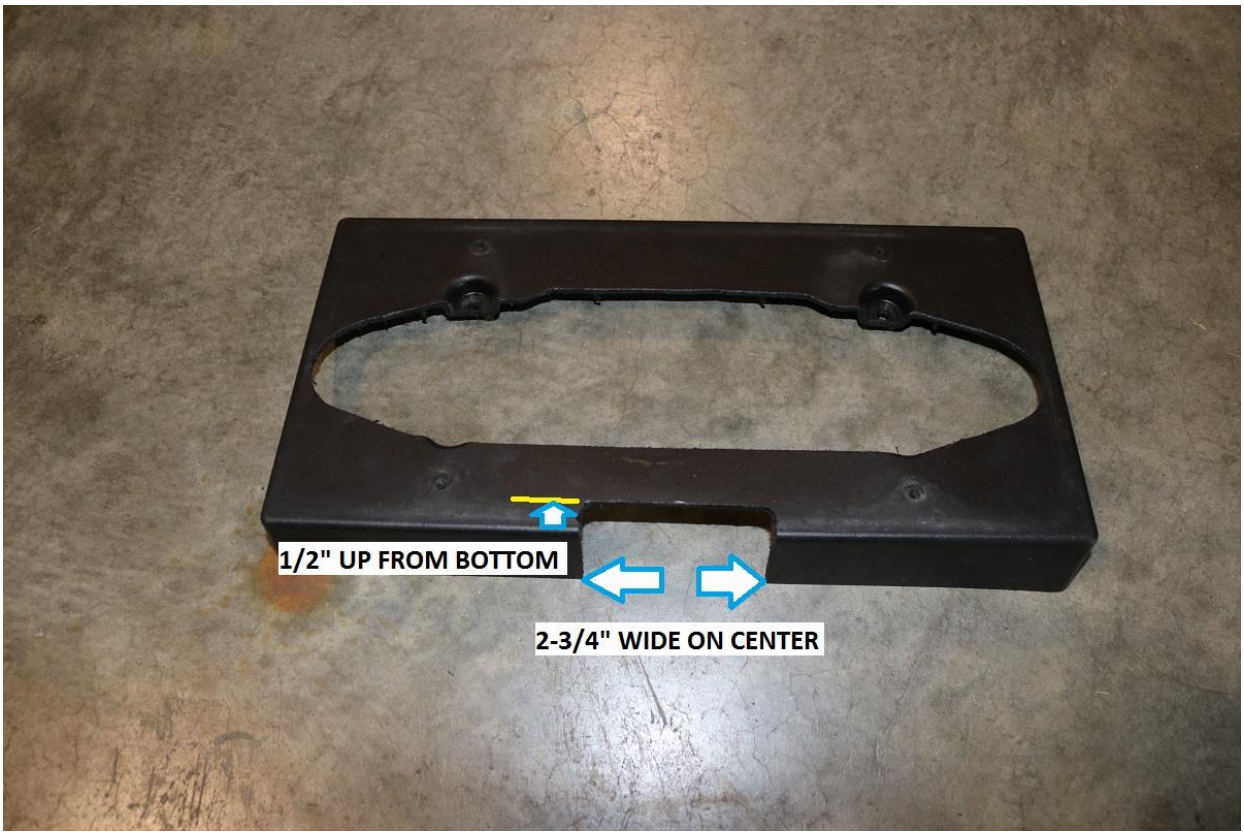


31) Sand smooth any remaining plastic gussets on the inside of the bumper cover in the center where the fairlead plate protrudes through.
32) Fit the bumper cover onto the vehicle. Once satisfied with fitment, install one or two of the upper T-30 mounting screws previously removed to ensure a centered fitment of the bumper cover.
33) Fit the license plate mount to the vehicle. This should cover the cutout made for the fairlead mounting plate. Once centered over the cutout and centered on the bumper cover, mark from the backside the two mounting holes for the fairlead.

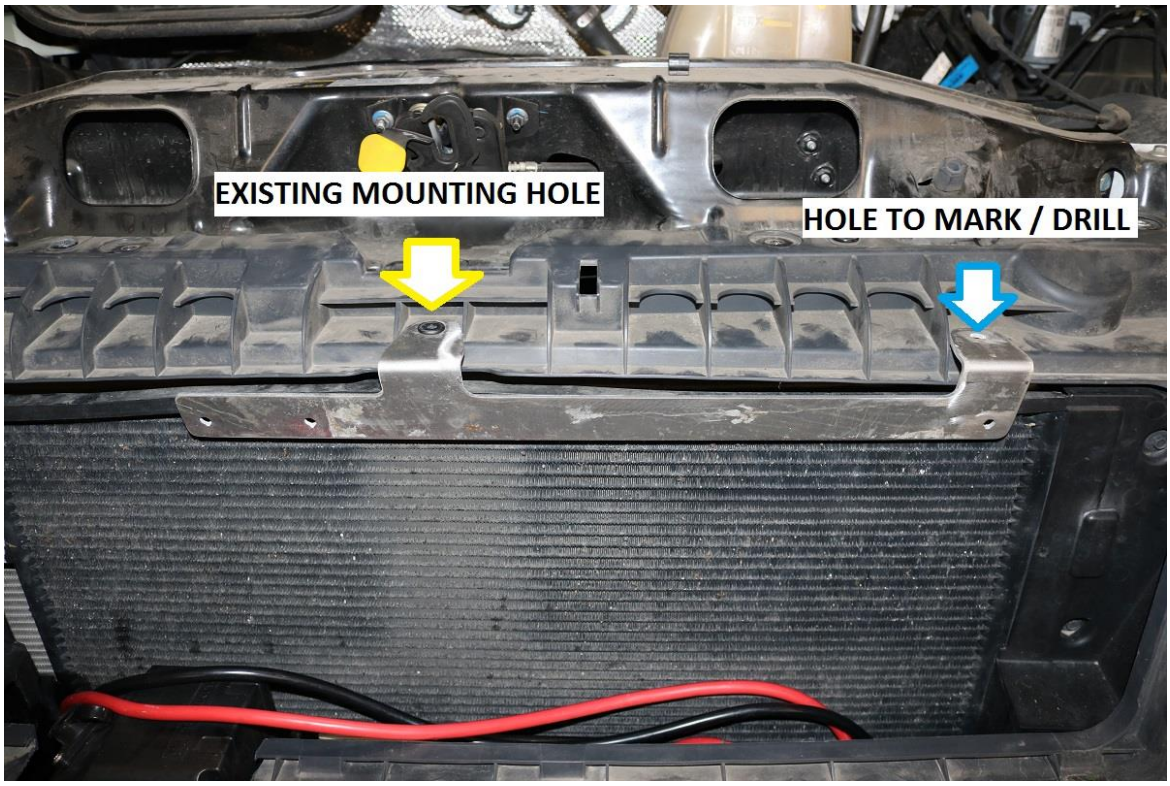
34) Once the holes are marked on the backside of the license plate mount, drill the holes using the same diameter drill bit as the fairlead hardware included with your winch.
    a. Bolt the fairlead to the license plate mount.
    b. Mark outline of fairlead and trim along line made of outline.



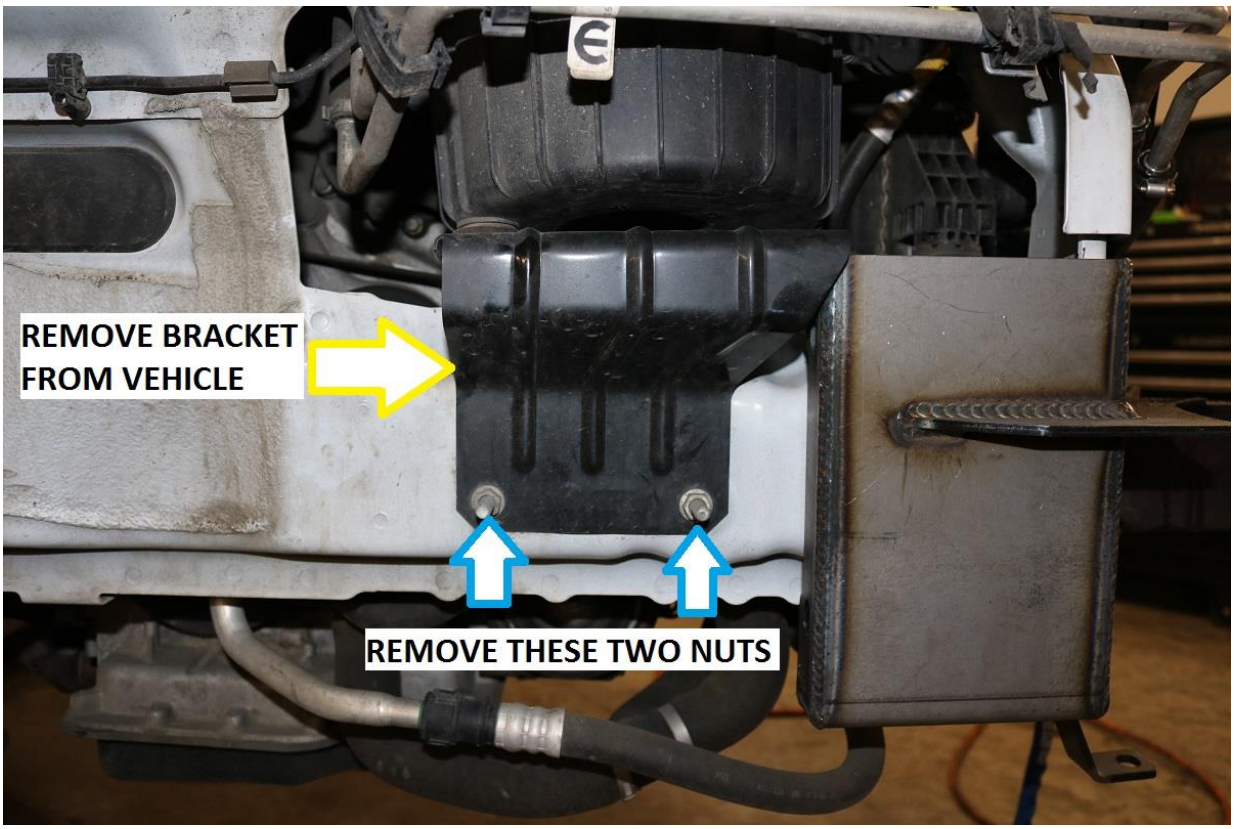
35) Test fit trimmed license plate mount by fully installing the fairlead onto the winch mount using the hardware provided with your winch. Ensure the bolts are installed from behind as there is very little room between the fairlead and the winch when installed.
    a. Note, If front receiver is being installed, the bottom of the license plate mount needs to be trimmed as shown in the image below.



36) Now is also a good time to install the power steering cooler relocation bracket. Do so by using the existing T-30 mounting screw as shown to locate the bracket.
    a. Once located, mark the second mounting hole.
    b. Remove the front bumper cover and drill this mounting hole using a 3/8” (10mm) diameter drill bit.

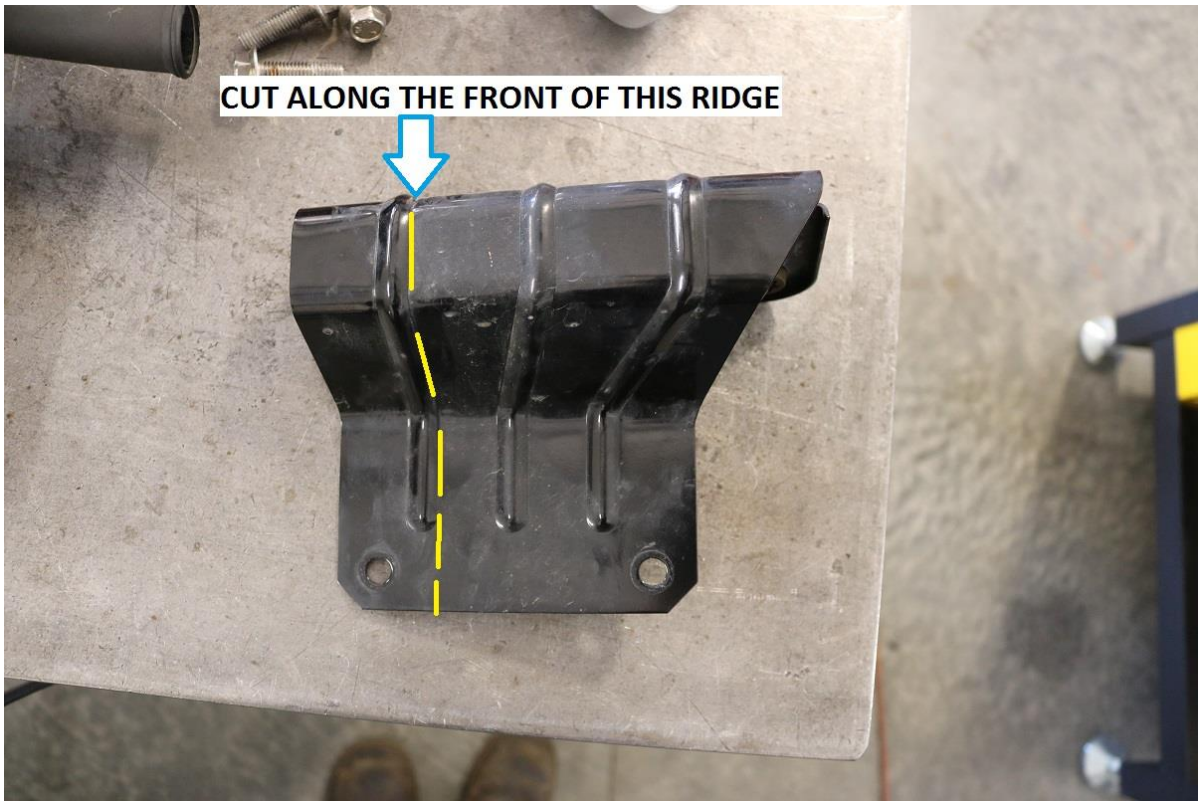


37) With the bumper cover removed, locate the bracket supporting the bottom of the air box on the passenger side of the vehicle. Remove the two 13mm nuts securing the bracket to the vehicle and remove.

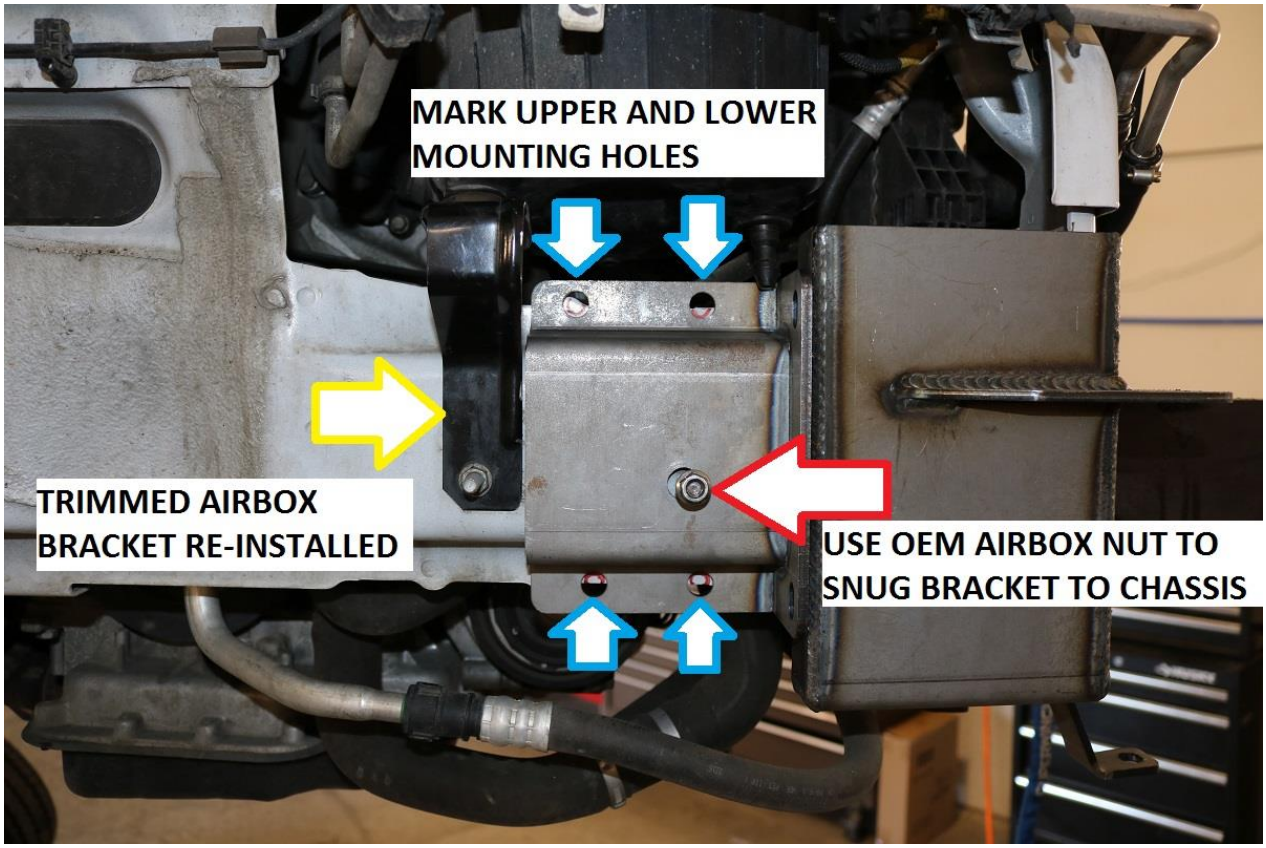


38) With the bracket removed from the vehicle, cut as shown in the image below.

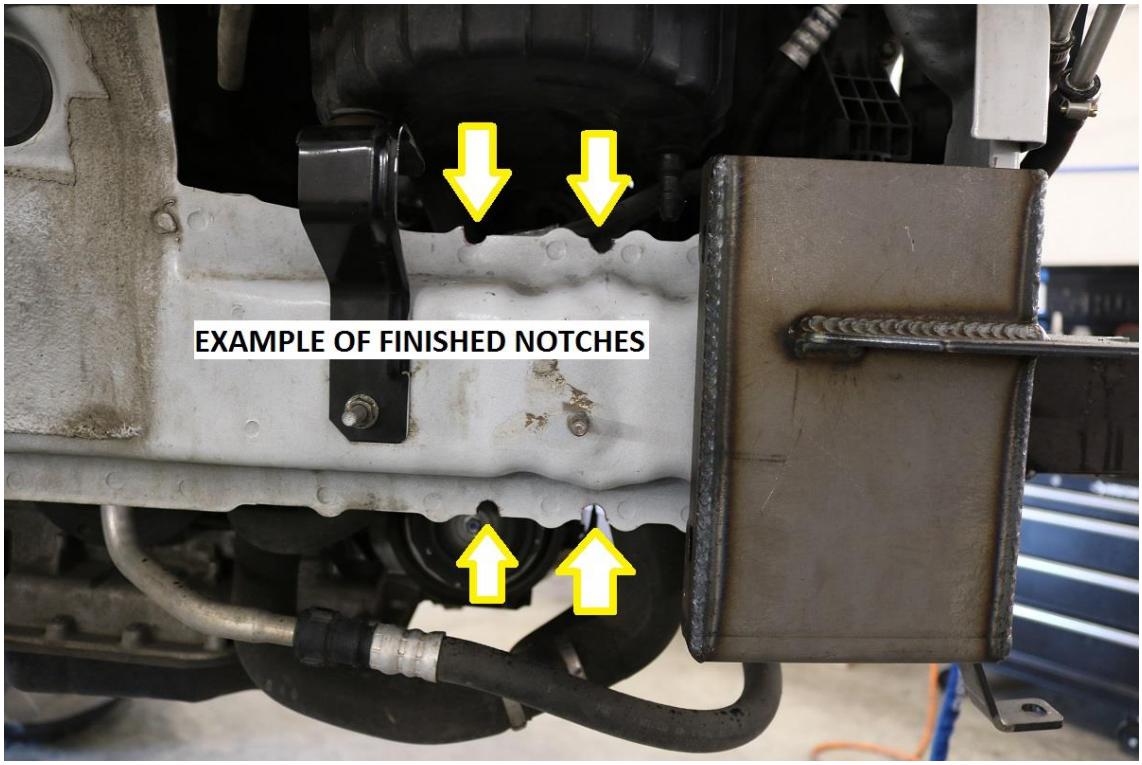
a. Use a 4-1/2" angle grinder or similar metal cutting tool. Deburr any sharp edges after cutting and paint any exposed areas of metal with paint to prevent corrosion.



39) Re-install the trimmed bottom air box bracket using one of the OEM 13mm nuts removed in step 37.
40) Still working on the passenger side, install the passenger Re-enforcement Bracket. Use the other OEM air box mounting nut to snug the bracket to the chassis.
    a. Once snugged to the chassis, mark the upper and lower chassis mounting holes.

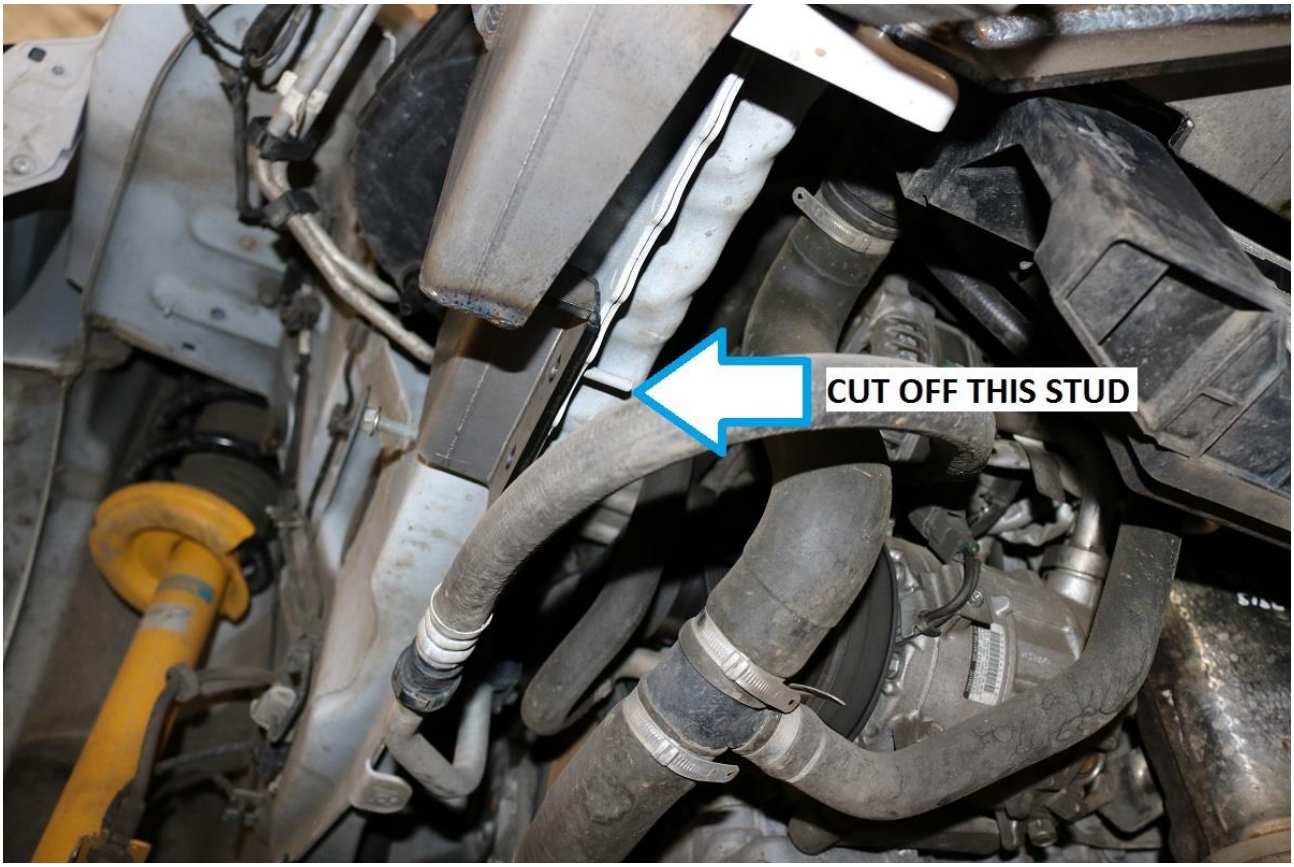


41) With the mounting holes marked, remove the bracket and use a dremel or die grinder with burr bit to notch out the hole mounting locations. See image below for reference of finished cuts.

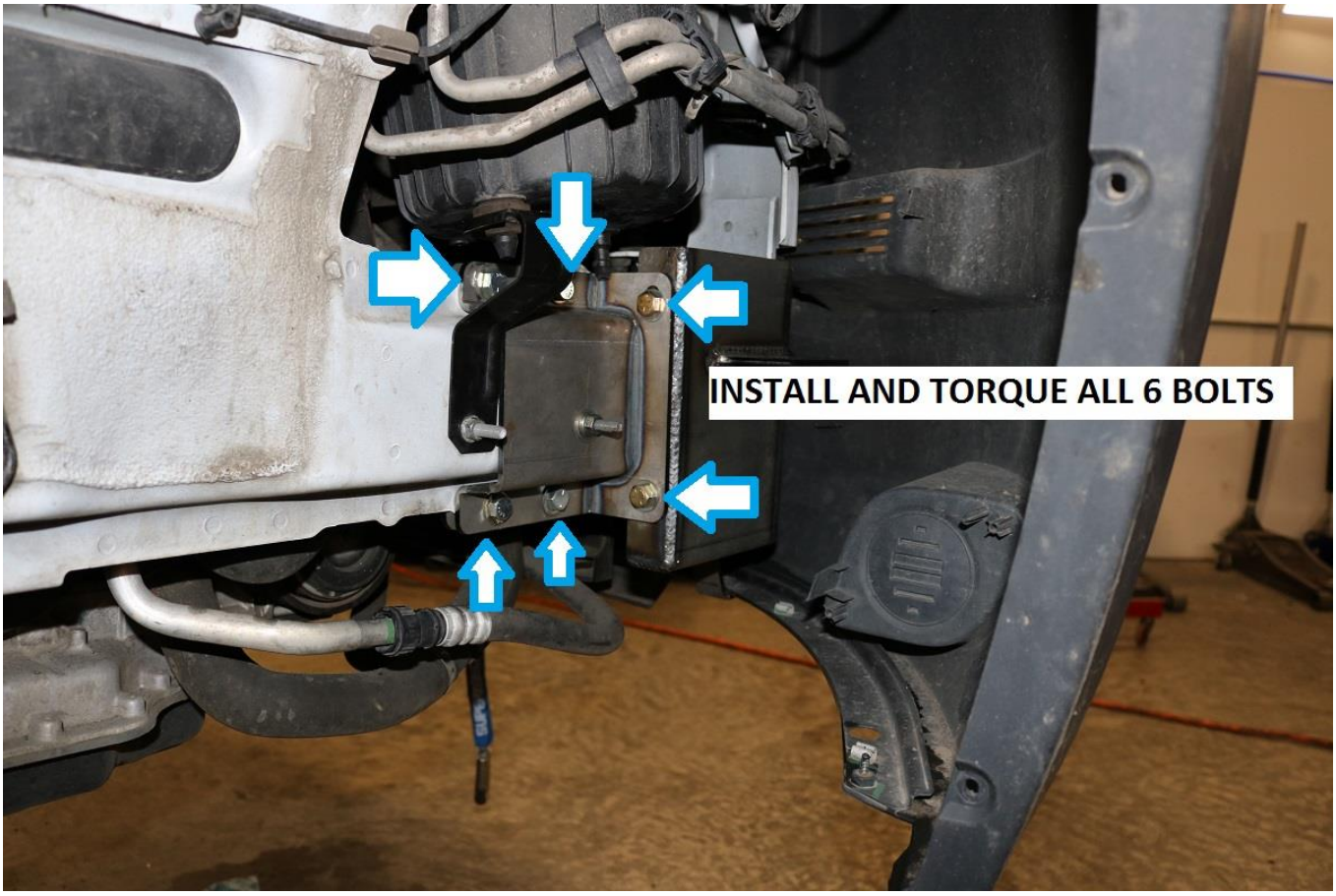


42) On the inside of the main chassis rail. Locate the threaded stud protruding towards the center of the vehicle. Use a small cut off wheel to cut this stud flush with the chassis. See image below for reference on stud location.

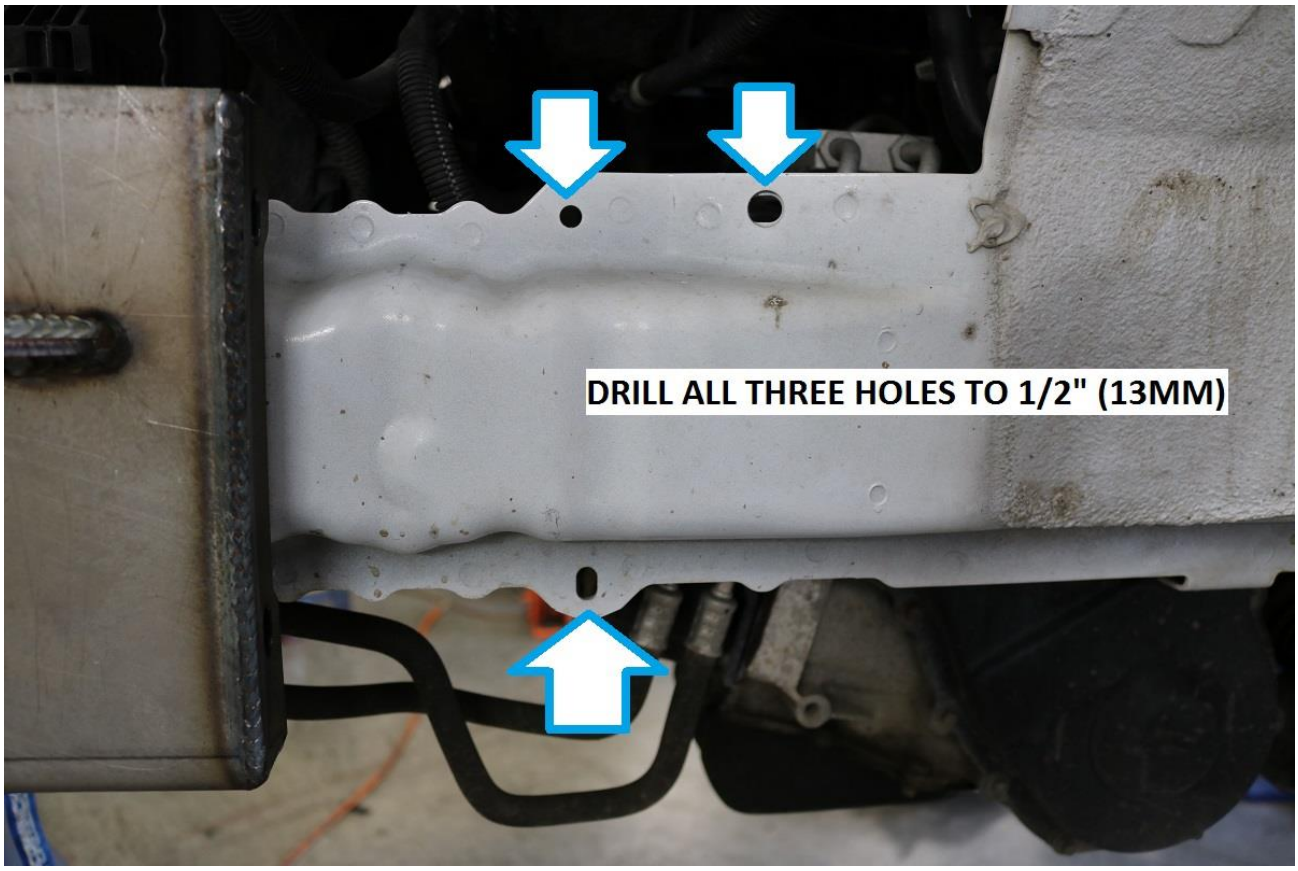
a. Once cut off, touch up any exposed areas of bare metal with paint to prevent corrosion.



43) 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 2.0” long bolts provided. Use a washer under the head of the bolt and the nylock nut.
    a. Again, use the remaining OEM air box mounting bracket nut to secure the outer re-enforcement channel.
    b. Install and start all hardware before tightening.
    c. Once all bolts have been started, use a 5/8” socket / wrench to torque to 40 ft-lbs (54 N.m)

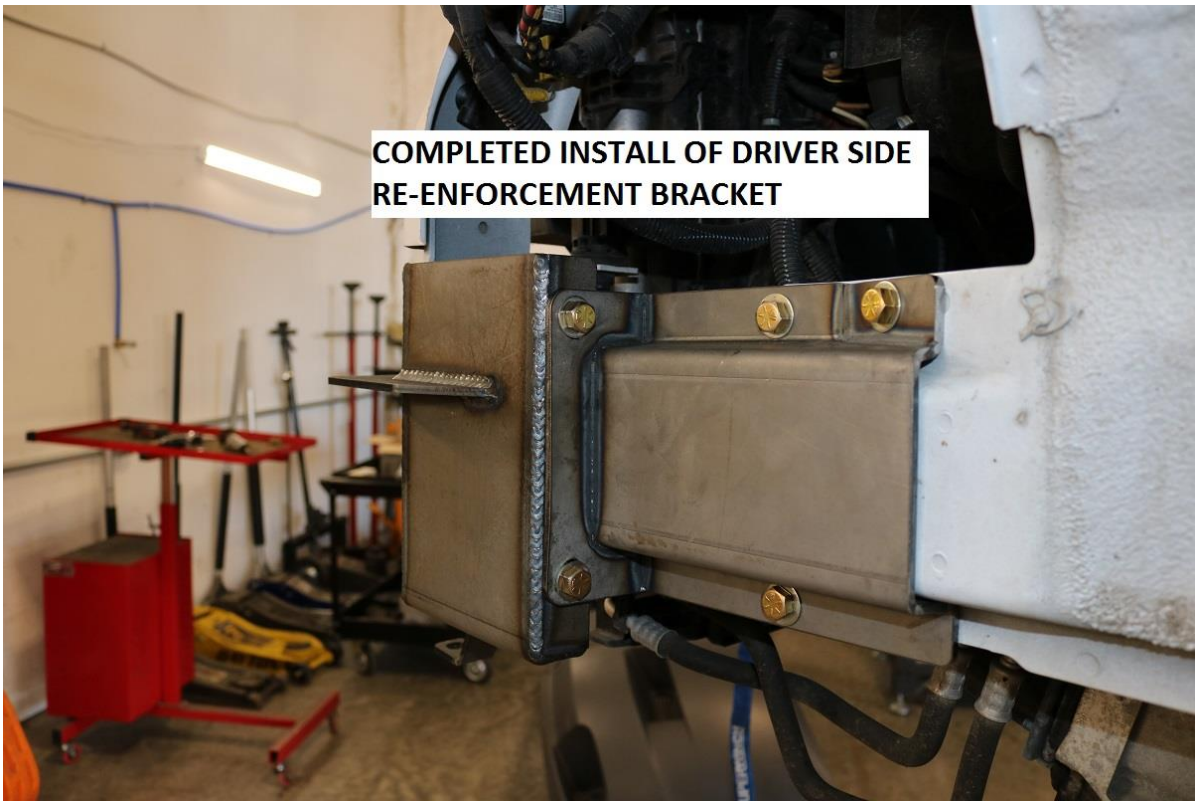


44) On the Driver (Left hand) side of the vehicle, locate the three mounting holes for the driver side re-enforcement bracket shown in the image below.
    a. Use a 1/2” (13mm) drill bit or step drill to open up all three mounting holes.

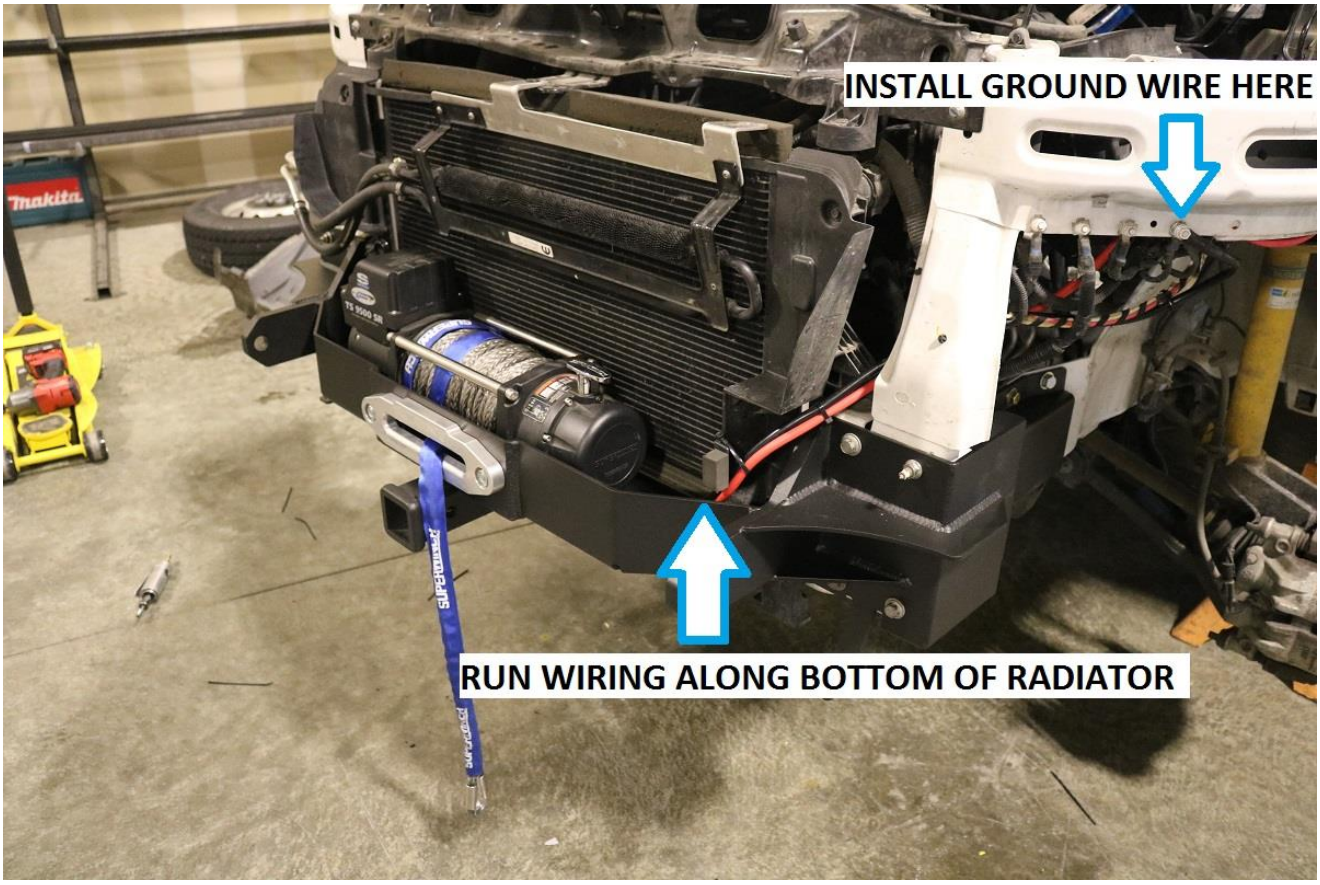


45) Touch up any exposed areas of metal with paint to prevent corrosion and install the driver side re-enforcement bracket. Install using the included 7/16-14 x 1.0” long bolts provided. Use a washer under the bolt head and the nylock nut.

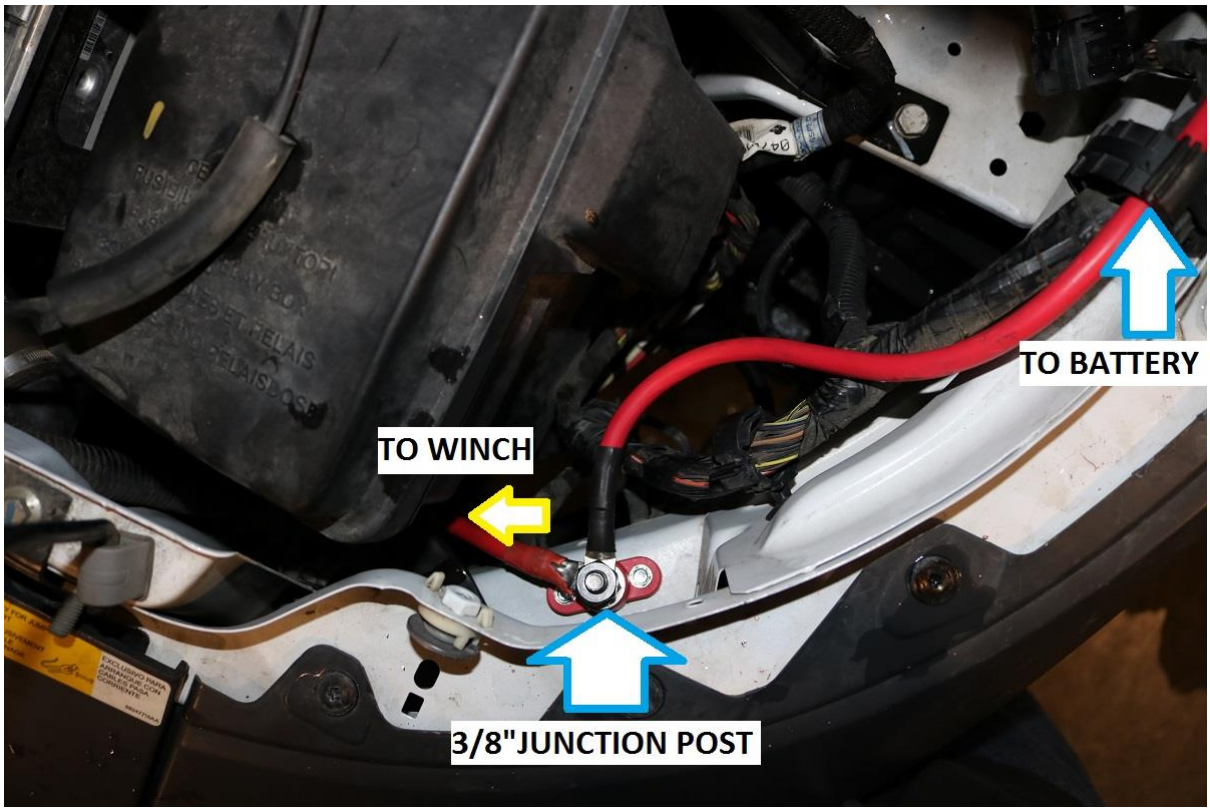
a. Install and start all hardware before tightening.
b. Once all bolts have been started, use a 5/8” socket / wrench to torque to 40 ft-lbs (54 N.m)



46) 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.
47) 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.

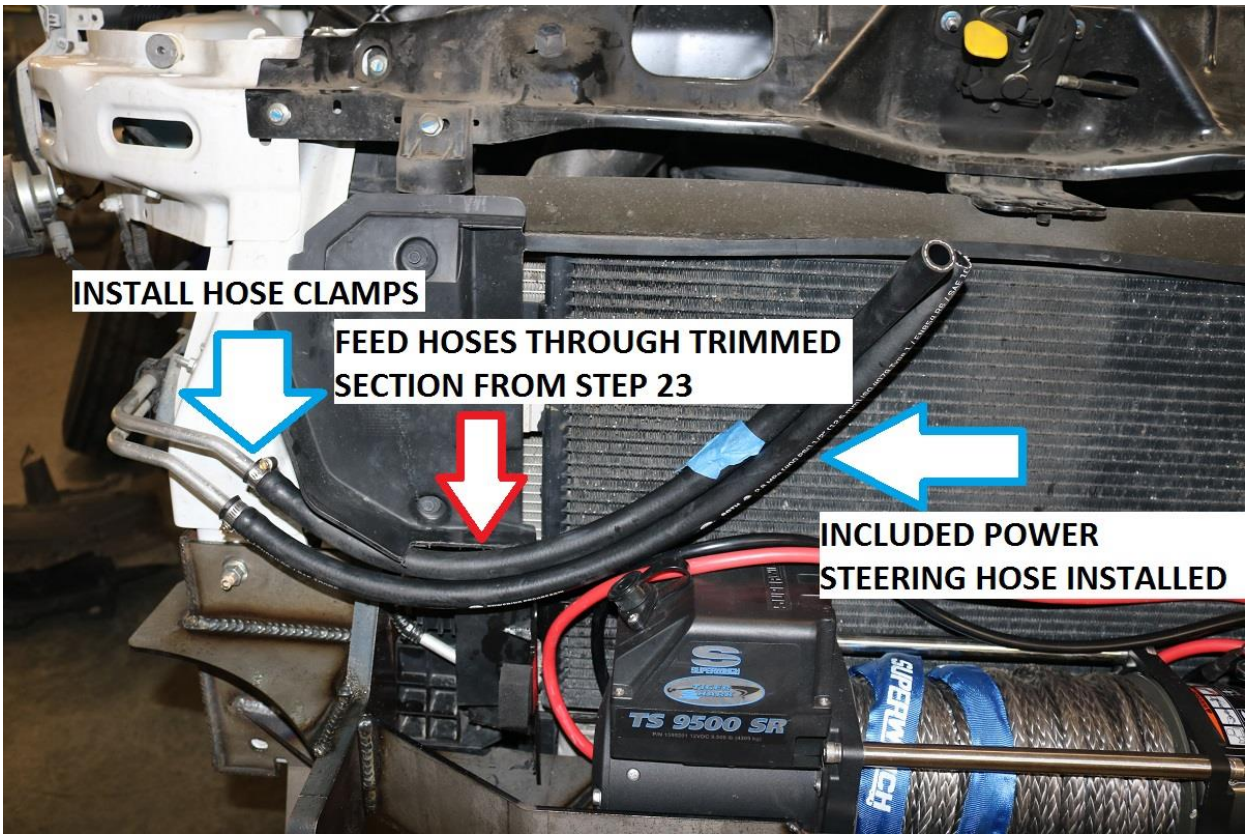


48) Mount a positive 3/8" terminal junction post on the inside of the fender support so the positive wire for the winch cable will reach.
    a. Route an approximately 6' piece of 2 gauge wire from the junction post, along the inside of the engine bay and under the van so it can protrude up through the plastic battery box from under the vehicle. A hole will need to be drilled in the battery box to route the wire into the vehicle to attach to the battery.
    b. Example of Junction post: 3/8" Red Single Stud Junction Block

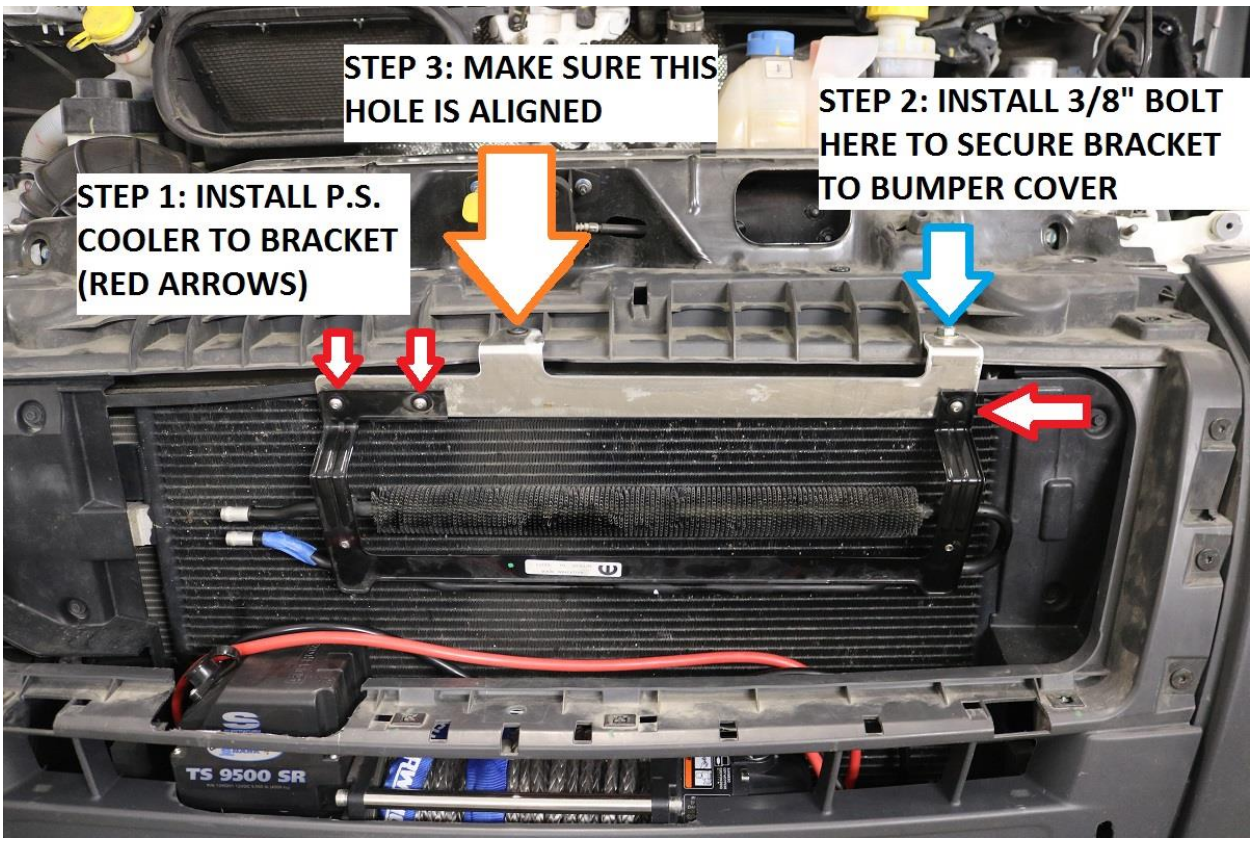


49) Remove and discard the factory rubber hoses for the power steering cooler.

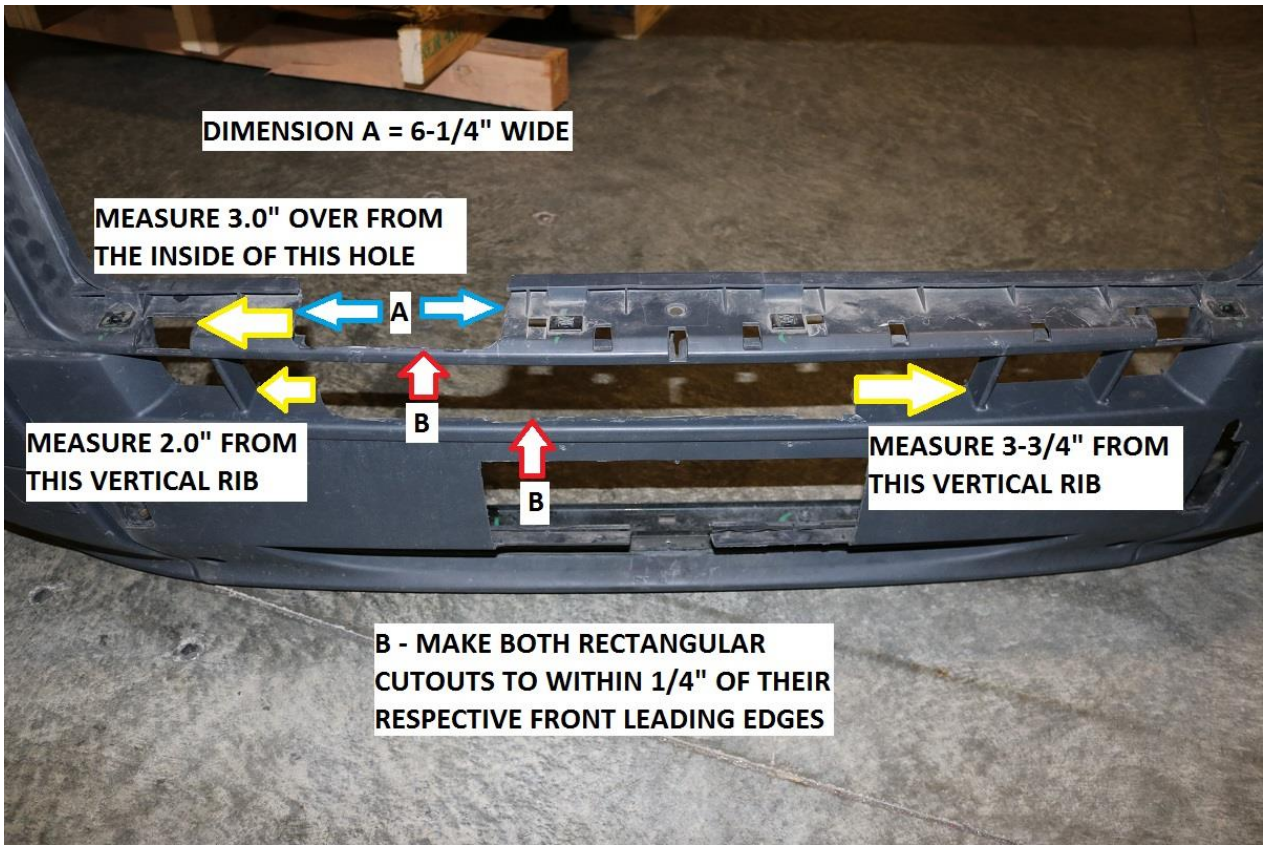
a. Cut the included 4’ piece of power steering hose in half so you have two 2 foot sections.
b. Install the power steering cooler hoses onto the factory pipes as shown below. Use two of the included hose clamps and fully tighten the hose clamps.
c. Feed the new longer power steering hoses through the trimmed section of the inner air damn from step 23.



50) Bolt the power steering cooler onto the included power steering cooler mounting bracket.
    a. Use the included ¼-20 x 1.0” long button head bolts to secure it.
    b. Use the included serrated flange nuts on the back side.
    c. Tighten the button head bolts with a 5/32” allen.
51) Bolt the power steering cooler bracket to the bumper cover using the hole previously drilled in step 36.
    a. Secure the bracket to the bumper cover with the included 3/8”-16 x 1.0” long bolt provided in the kit. Use a washer under the bolt head and under the nylock nut.
    b. Use a 9/16” socket / wrench to secure. Make sure the other mounting bolt of the bracket is aligned with the center mounting hole for the OEM torx bolt.



52) At this point, final bumper cover trimming for the winch itself will need to be performed. Below is an example of how we trimmed to fit the Superwinch Tiger Shark 9500SR.
    a. Again, use these instructions as a guide for trimming. Final trimming per your model winch may vary.

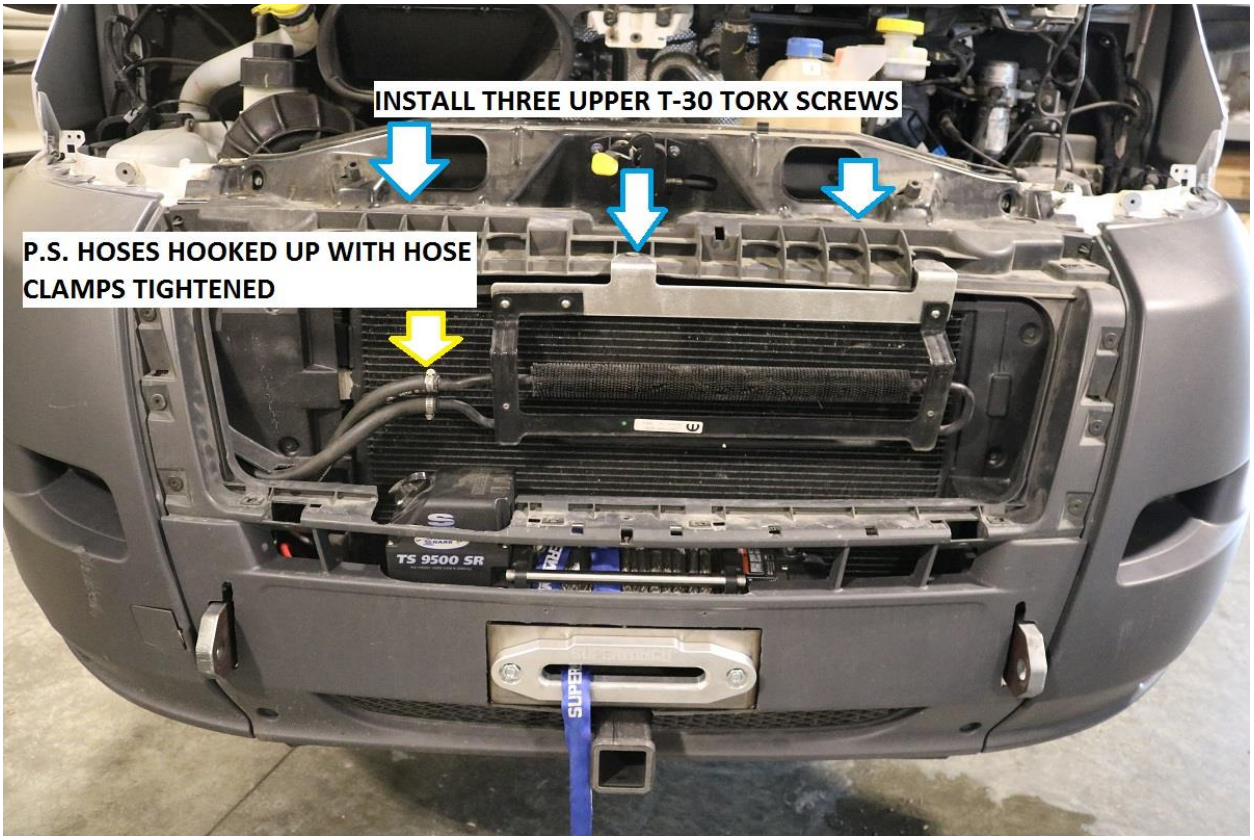


53) Install the bumper cover onto the vehicle. Re-install the three upper center T-30 torx screws removed in step 17.

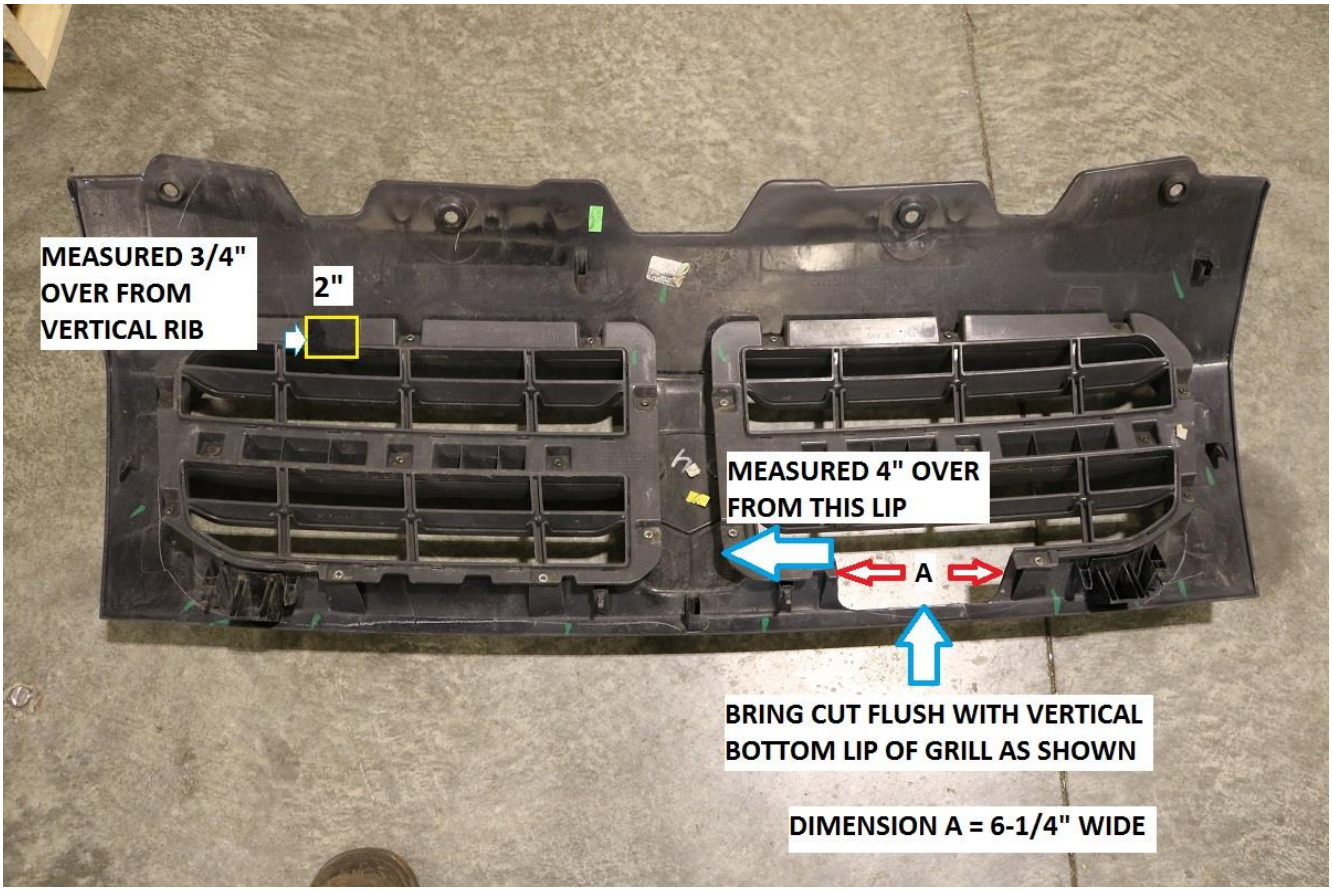
54) Complete all winch wiring and hook up the power steering hoses to the cooler at this point.

a. Note, shorten the power steering hose as needed for a smooth, kink free installation.

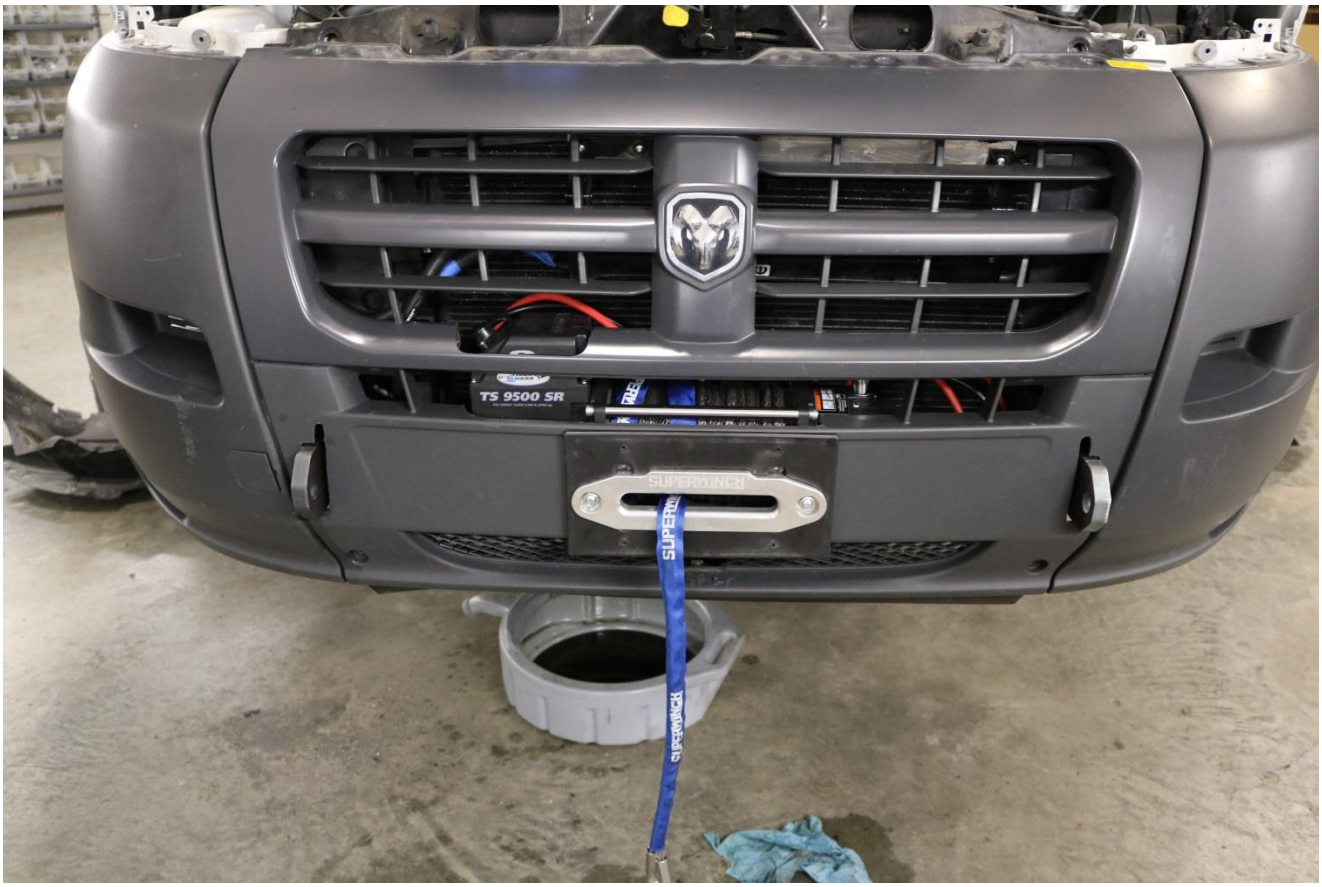
b. Install two more of the included hose clamps at the cooler and tighten.



55) 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.



56) Once trimmed, re-install grill and all corresponding hardware.



57) 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.
58) 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.

Installation is Complete

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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.

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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.

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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.

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