# 4063 – 2019-PRESENT, MERCEDES SPRINTER VS30, BIG TIRE MUDFLAP BRACKETS

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 bracket kit that can be installed with basic hand tools and a 4-1/2" angle grinder or similar tool for cutting metal.
- With this bracket kit on a 4wd Sprinter 2500, 315/75/16 (35") tires can be fitted with the following conditions met:
    - Trimming of the rear of the rear fenders.
    - Trimming the rear of the front fender and Installation of Van Compass Striker lift kit (Part Number: 7042)
    - Trimming of the front mudflaps
    - Trimming of the front bumper and front plastic inner fender well liner
    - Minimum of a 9/16" (14mm) wheel spacer installed. This is for tire clearance between the inside of the tire and the strut.
        - Note; this could be omitted with an additional 9/16" (14mm) offset on aftermarket wheels.
- With this bracket kit on a 2wd Sprinter 2500, 285/75/16 (33") tires can be fitted with the following conditions met:
    - Trimming of the rear of the rear fenders.
    - Trimming the rear of the front fender and Installation of Van Compass Striker lift kit (Part Number: 7038)
    - Trimming of the front mudflaps
    - Trimming of the front bumper and front plastic inner fender well liner
    - Minimum of a 9/16" (14mm) wheel spacer installed. This is for tire clearance between the inside of the tire and the strut.
        - Note; this could be omitted with an additional 9/16" (14mm) offset on aftermarket wheels.
- NOTE: Vehicles equipped with Distronic / Brake Assist (AKA; Adaptive Cruise Control) can run a maximum tire size of 275/75/16 or 275/70/17. Fitment of a larger tire than that will cause the Distronic system to not function.

## Parts List

### 4063 – 2019-PRESENT, MERCEDES SPRINTER VS30, BIG TIRE MUDFLAP BRACKETS

- (1) 406301-LH BIG TIRE MUDFLAP BRACKET, DRIVER SIDE, REAR
- (1) 406301-RH BIG TIRE MUDFLAP BRACKET, PASSENGER SIDE, REAR

- (1) 406302-LH BIG TIRE MUDFLAP BRACKET, DRIVER SIDE, FRONT
- (1) 406302-RH BIG TIRE MUDFLAP BRACKET, PASSENGER SIDE, FRONT
- (10) ST8-03 SELF TAPPING LATH SCREW, #8 PHILLIPS, ¾" LONG
- (12) WFS-10-24 10-24 STAINLESS FLAT WASHER
- (6) NNC-10-24 10-24 NYLOCK NUT, CLEAR ZINC
- (6) MC5-10-24 10-24 MACHINE SCREW, 1.0" LONG

## Tools Needed

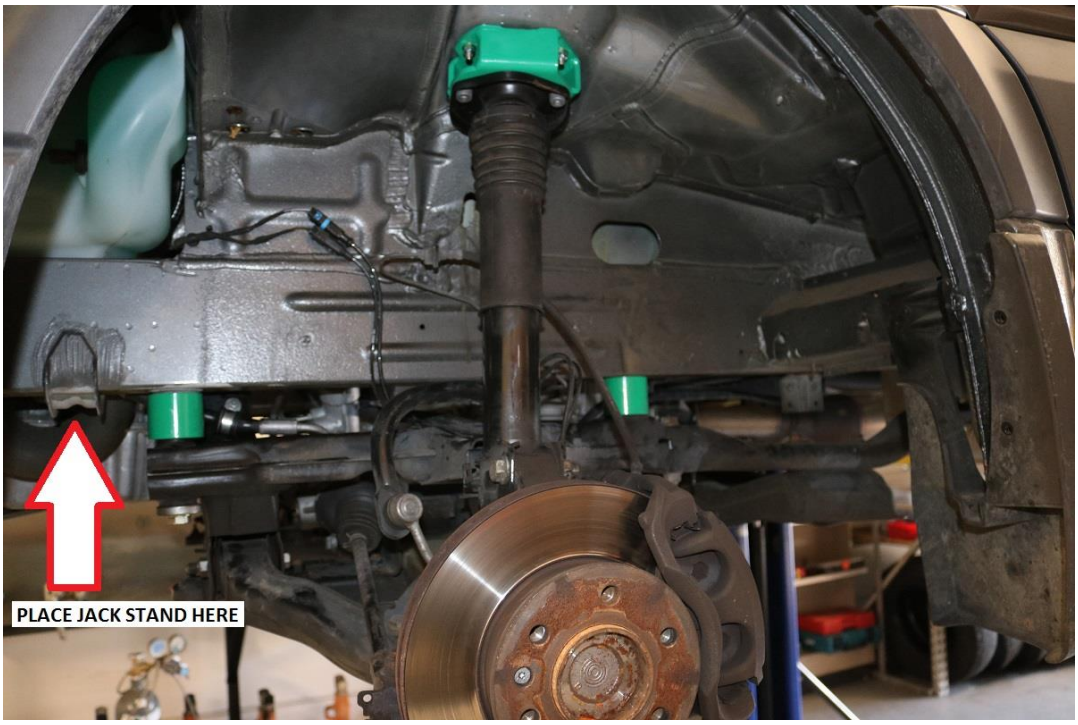
- One vehicle jacks and 2 jack stands.
    - Optional – Automobile lift
- Simple hand tools:
    - Body trim removal tools
    - Basic wrench and socket set:
        - Metric sizes: 10mm
        - SAE sizes: 3/8"
        - T-25 torx
        - Phillips screw driver
- 4-1/2" Angle grinder with metal cut off wheel and flap disc, or similar sanding tool for material removal of thin sheet metal.
- Drill with quality 3/16" (5mm) diameter metal cutting drill bit.

## Approximate Installation Time

- Professional shop with automotive lift: 1-2hours
- Driveway install with jack and jack stands: 2-3 hours

## Installation

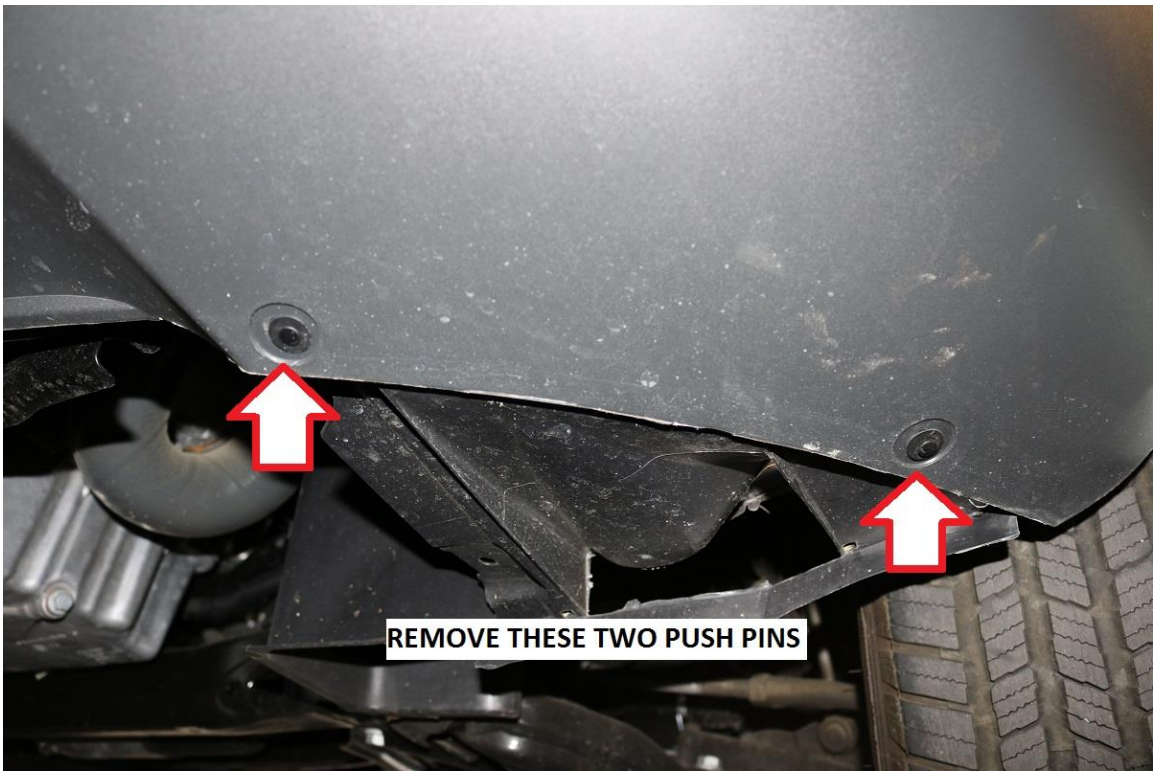
1) It is easiest to install this bracket kit with the wheels / tires removed. Place the front of the vehicle on jack stands or raise the whole vehicle on a lift.
    a. If performing this installation on the ground with a jack and jack stands, place the jack stands just forward of the suspension sub frame.




b. If performing this installation on an automobile lift, place lifting point just forward of the gas tank on the vehicle's main chassis section. Mirror this location on the passenger (right hand) side.


Front Installation

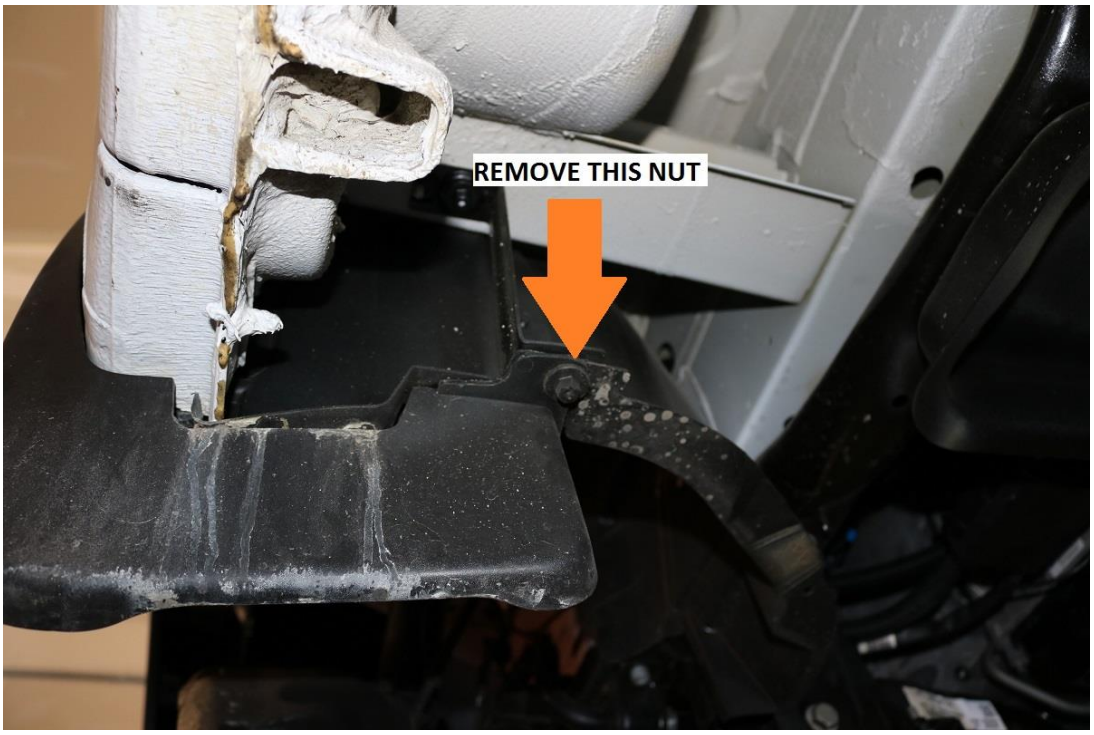
2) Remove the front wheels and tires.
   a. Remove the front inner fender well liner by first removing the two push pins located near the front bottom side of the bumper which connect the inner fender well to the front bumper. See image below.

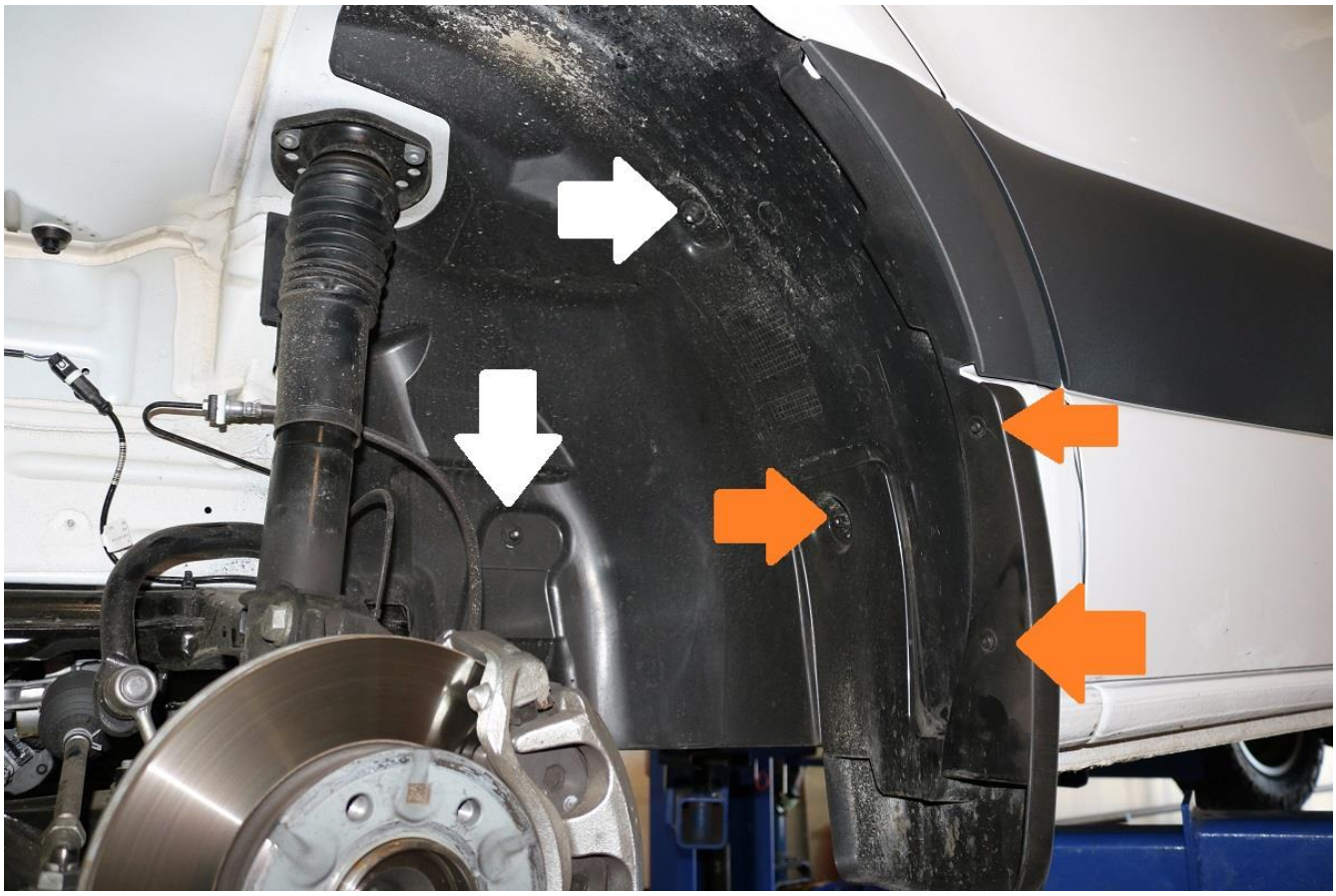



3) Use an automotive trim removal tool to pry up under the head of the push pin prior to prying under the body of the fastener to fully remove it.

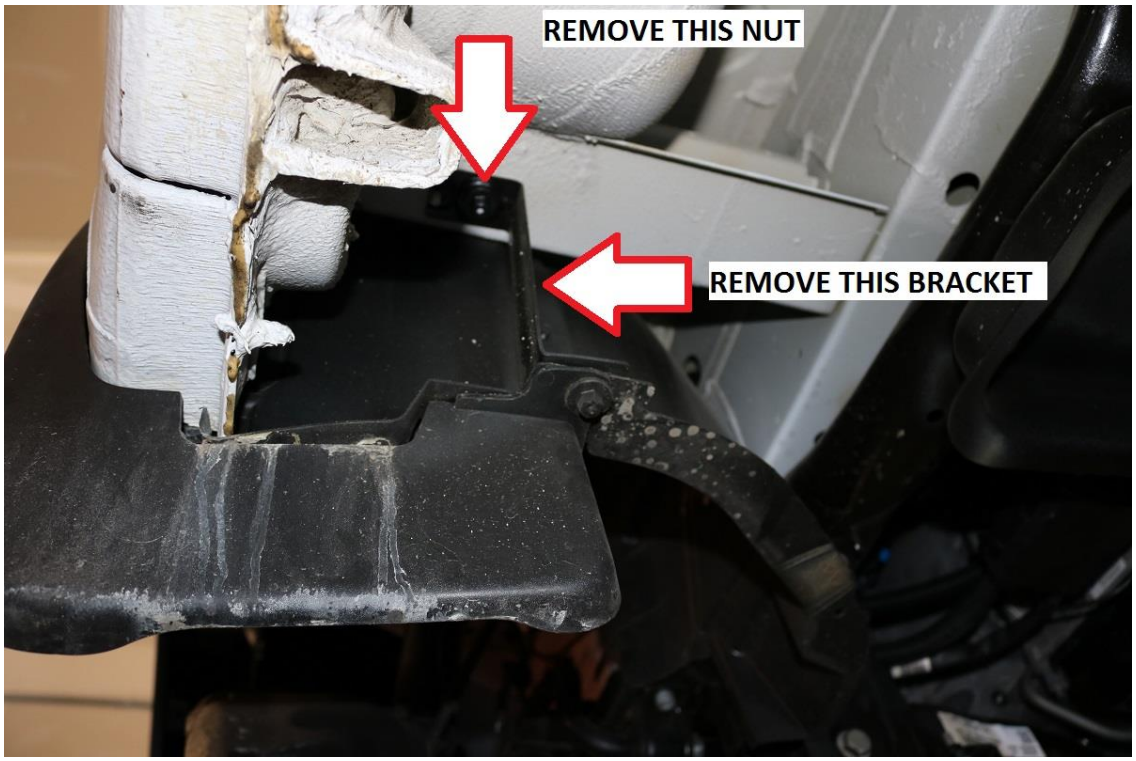
4) Next, on the inside of the fender well, remove the three push pin fasteners near the outer lip of the bumper.


5) Locate and remove the three plastic nuts securing the front half of the inner fender well liner to the chassis. Use a 10mm socket for removal.
6) Remove the mudflap by removing the two T-25 torx screws and two 10mm plastic nuts securing it to the vehicle. All fasteners denoted with an orange arrow in the images below must be removed for mudflap removal.
    a. Note, there is one plastic 10mm nut on the underside of the vehicle towards the center of the wheel well. See images below for reference.

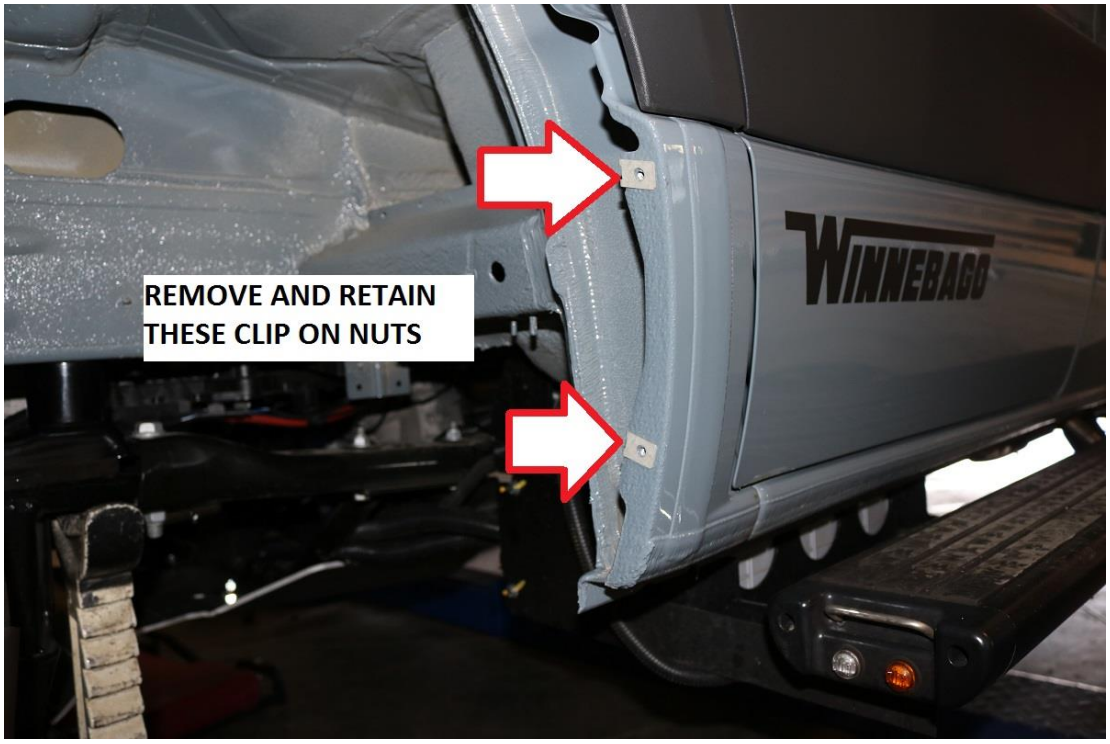




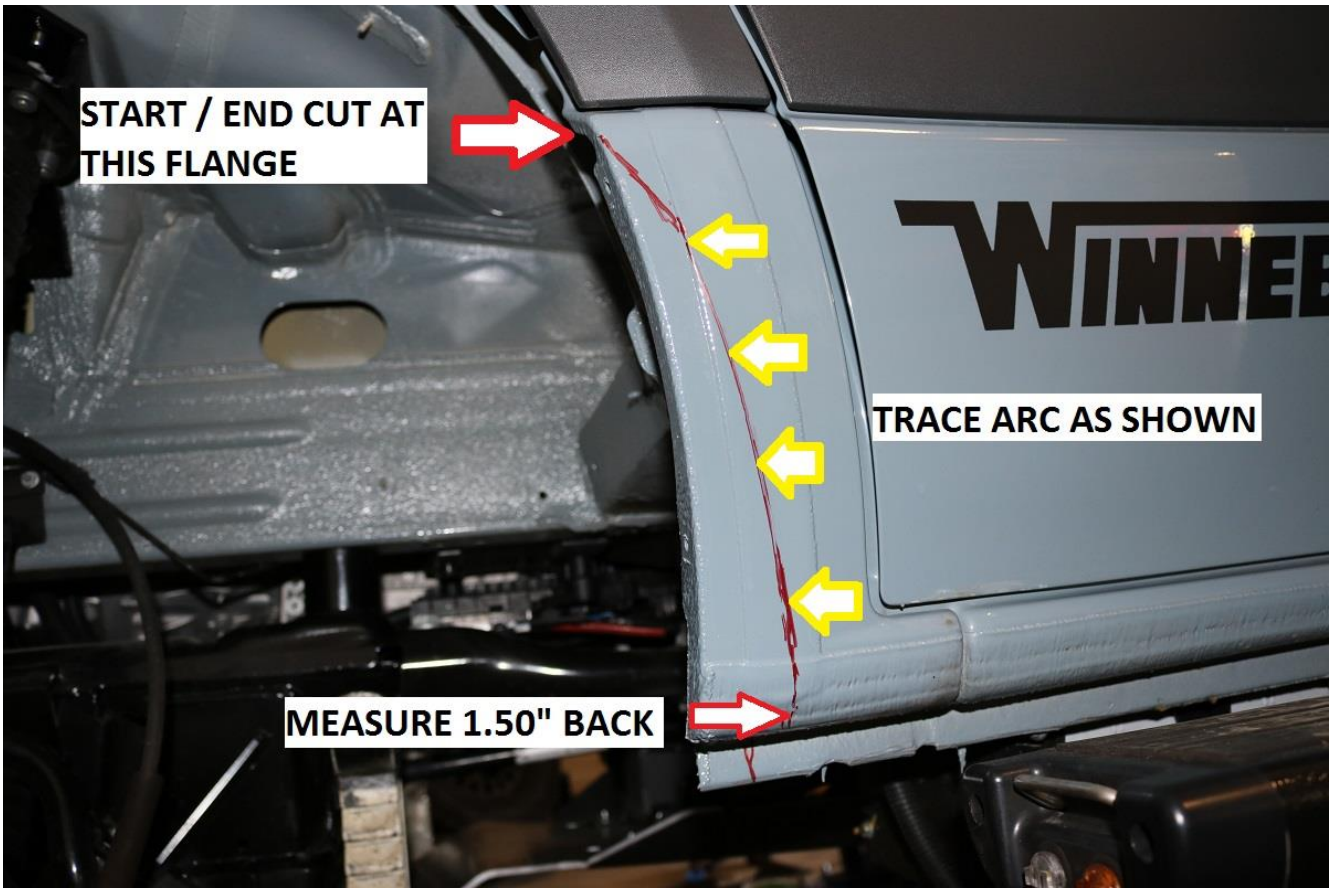
7) Locate and remove the remaining two plastic 10mm nuts securing the rear half of the inner fender well liner to the chassis. These are denoted in the image above with the white arrows.
8) Remove the rear half of the inner fender liner first by pulling it free of the threaded studs and out from under the lip of the fender itself.
9) Remove the front half of the inner fender liner by pulling the outer edge out from under the lip of the plastic bumper cover and from the outer lip of the metal fender. Rotate down so the liner clears the threaded studs and remove from vehicle.
10) If fitting 315/75/16 (35") tires, remove the rear mudflap attachment bracket. Use a 10mm socket / wrench to remove the nut securing the bracket to the vehicle.
    a. Note, if fitting 285/75/16 and smaller tires, skip to step 11.



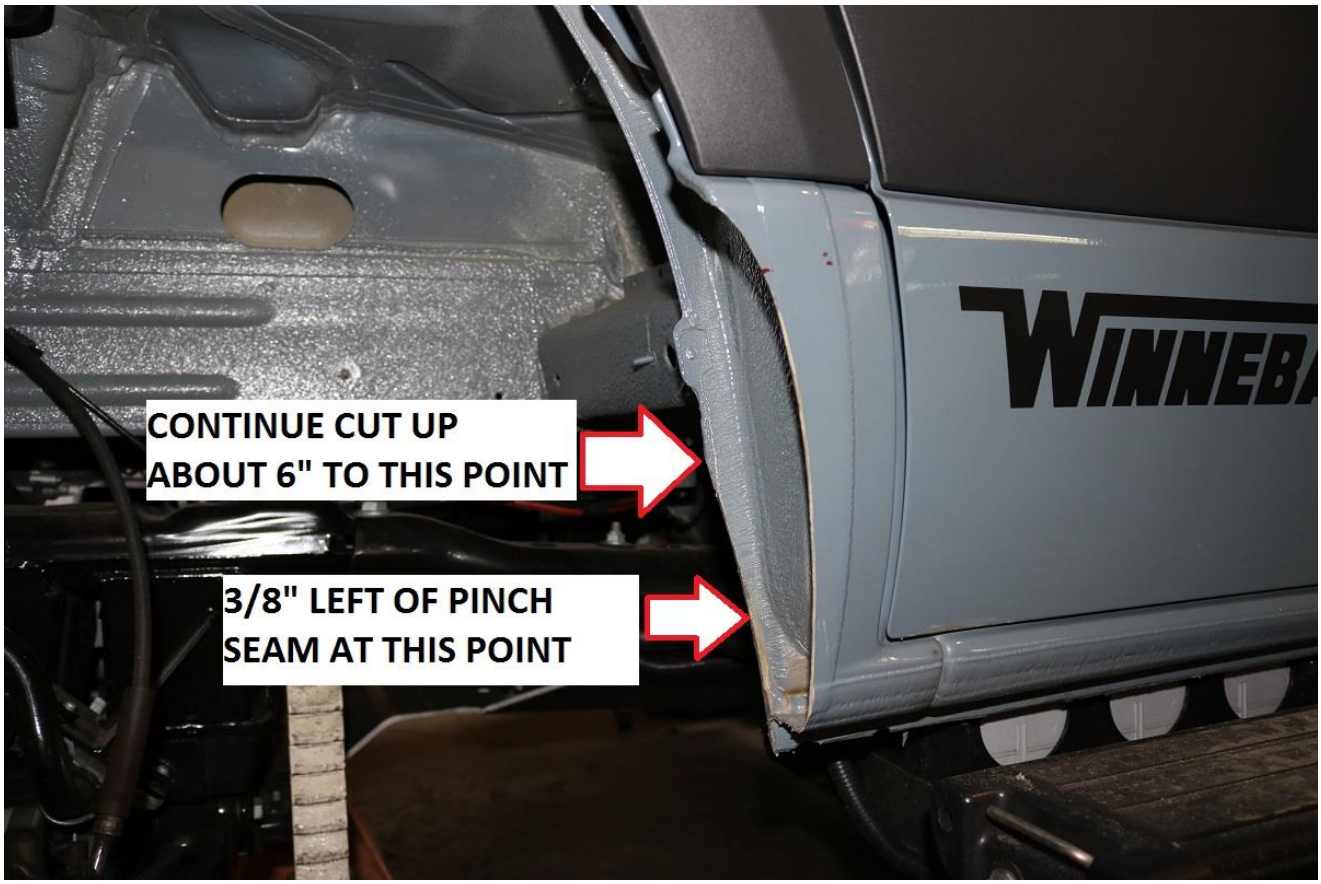

11) Remove and retain the clip on nuts which secured the mudflap to the rear of the front fender.




12) Measure 1.50” back at the bottom of the fender. From there, trace an arc up to the small flange just below the plastic body molding. See image below for reference on the cut line.
    a. Once marked, cut using a 4-1/2” angle grinder with metal cut off wheel or similar cutting tool.



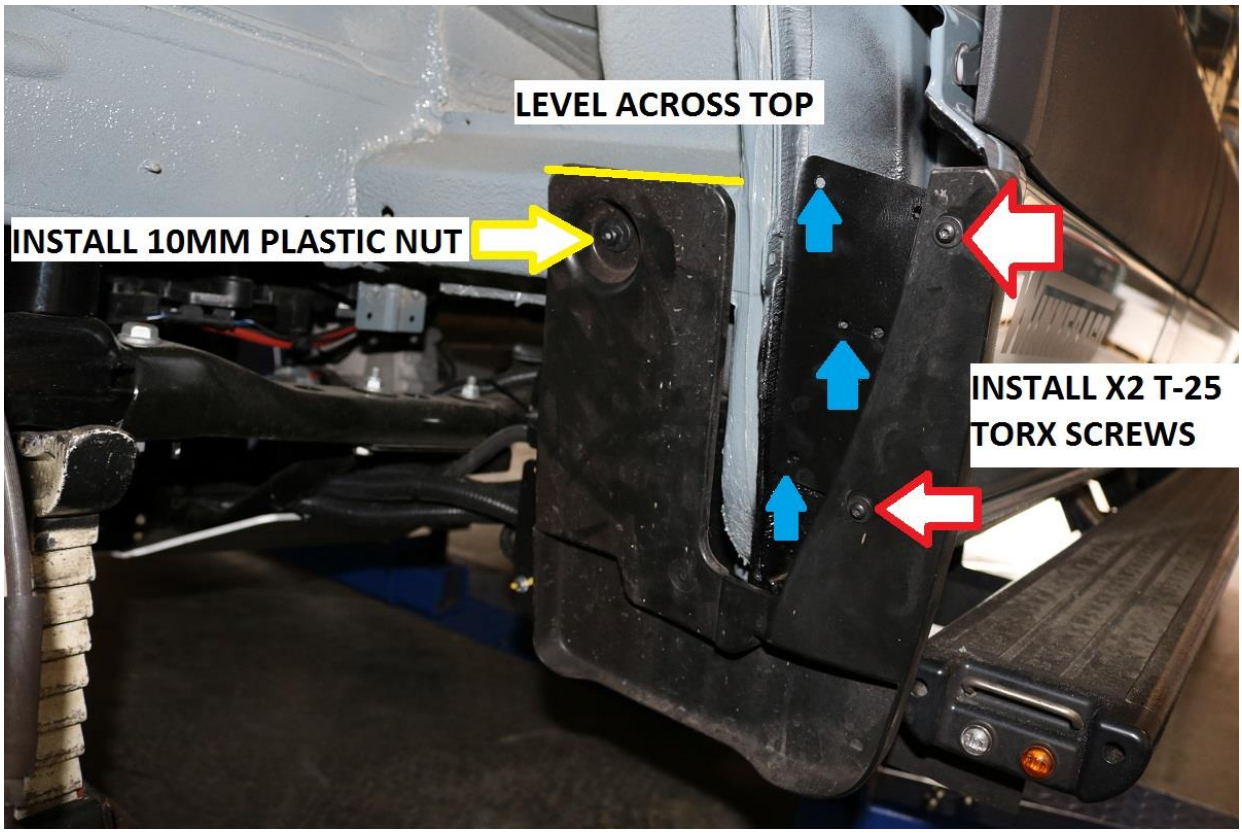

13) Continue the cut on the inner pinch seam. The cut should leave approximately 3/8” (9-10MM) of pinch seam left at the bottom. See image below.
    a. Continue the cut in an arc upwards approximately 6”
    b. Below is an example of a finished cut. Deburr any rough cut edges and touch up with a quality paint to prevent corrosion.



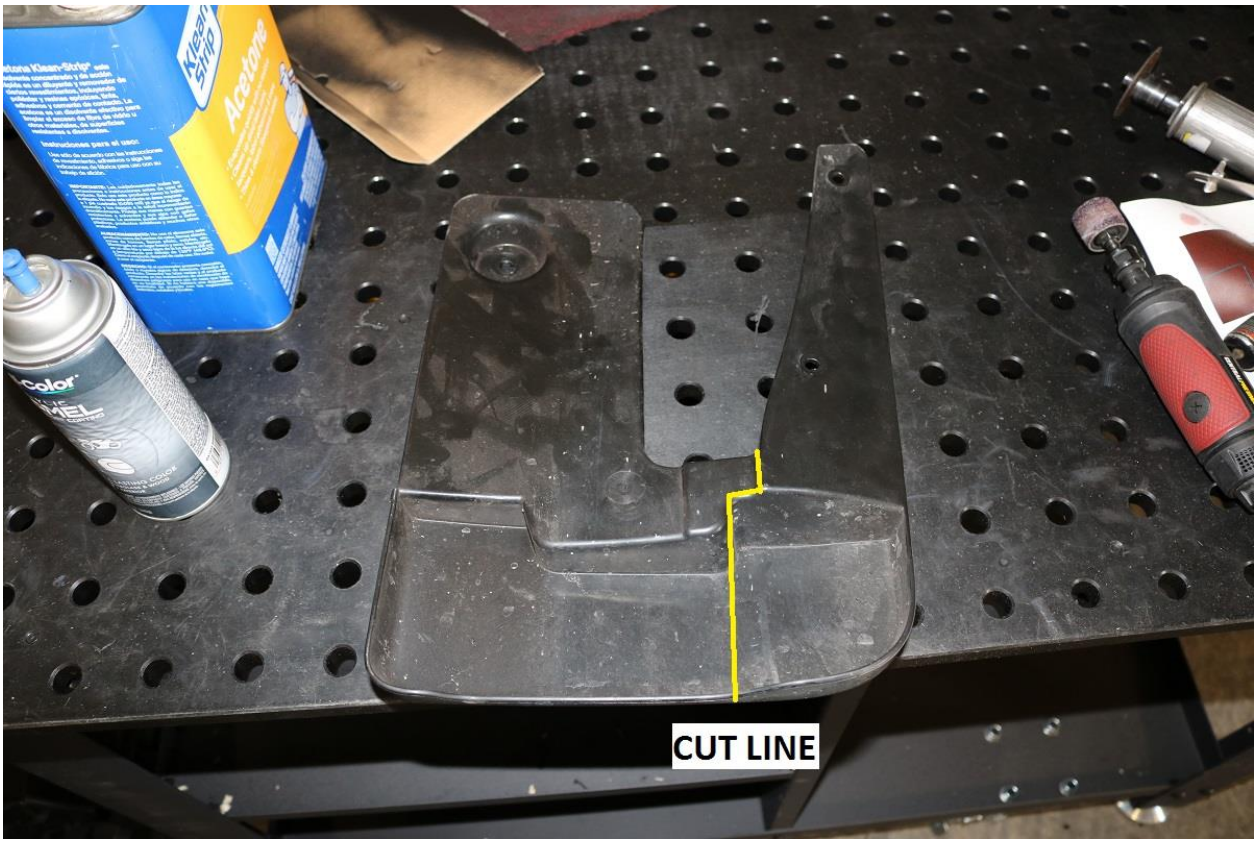

14) Install the oem clip on nuts previously removed in step 74 and install them onto the big tire front fender bracket as shown below.


15) Install the mudflap back onto the vehicle using the 10mm plastic nut on the inside of the fender well. Level the mudflap across the top as shown in the image below.

a. Once secured to the chassis. Install the big tire mudflap bracket to the mudflap using the OEM T-25 Torx screws previously removed in step 16.
b. Push the bottom of the mudflap back as far as it will go, and mark / drill the three holes denoted by the solid arrows in the image below. Use the included self tapping screws to secure the bracket to the vehicle.

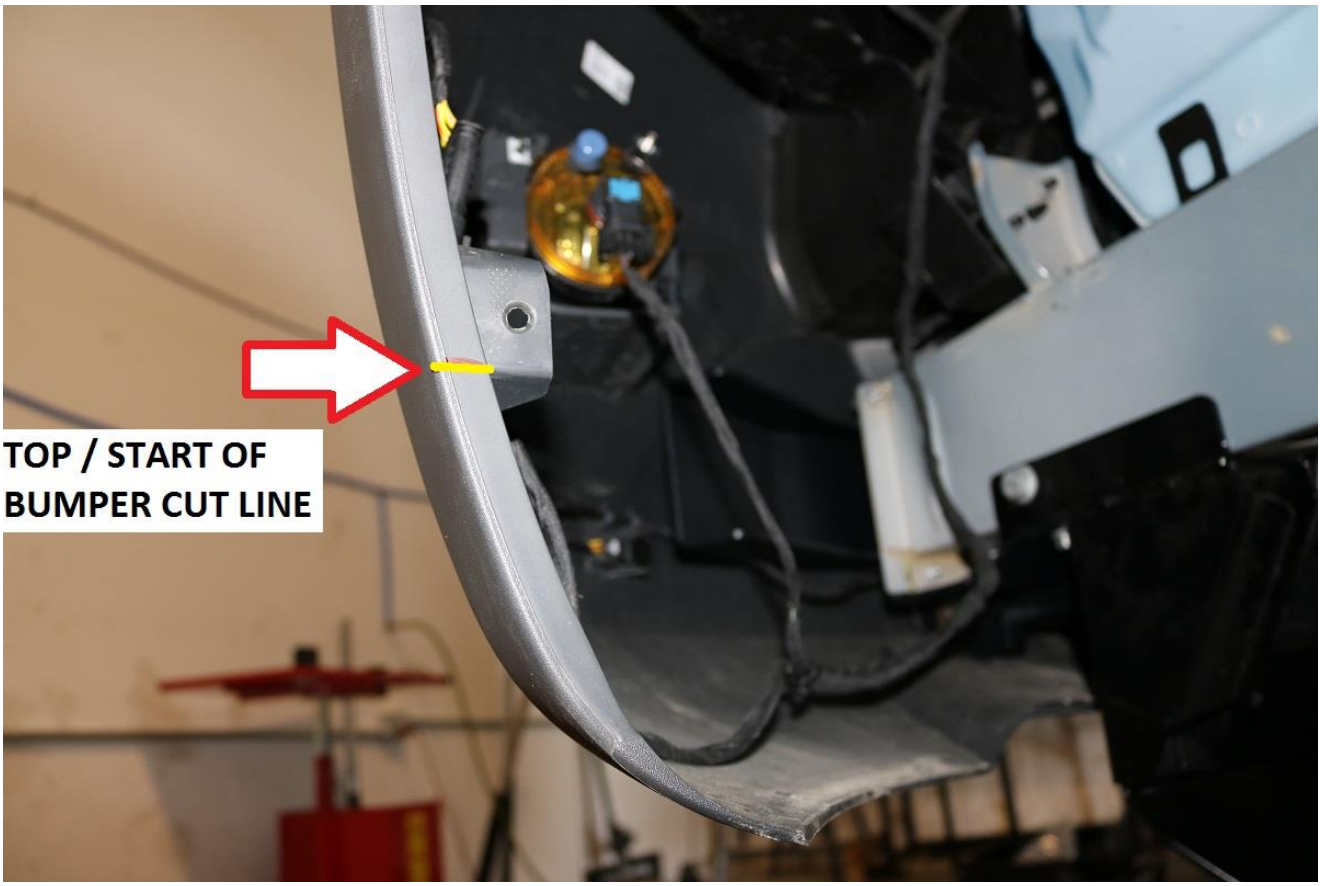



16) NOTE; Steps 17-24 are only necessary for 315/75/16 (35”) tire fitment. If fitting 285/75/16 and smaller tires, skip to step 24.
a. Remove the mudflap and mark a cut line as shown in the image below.

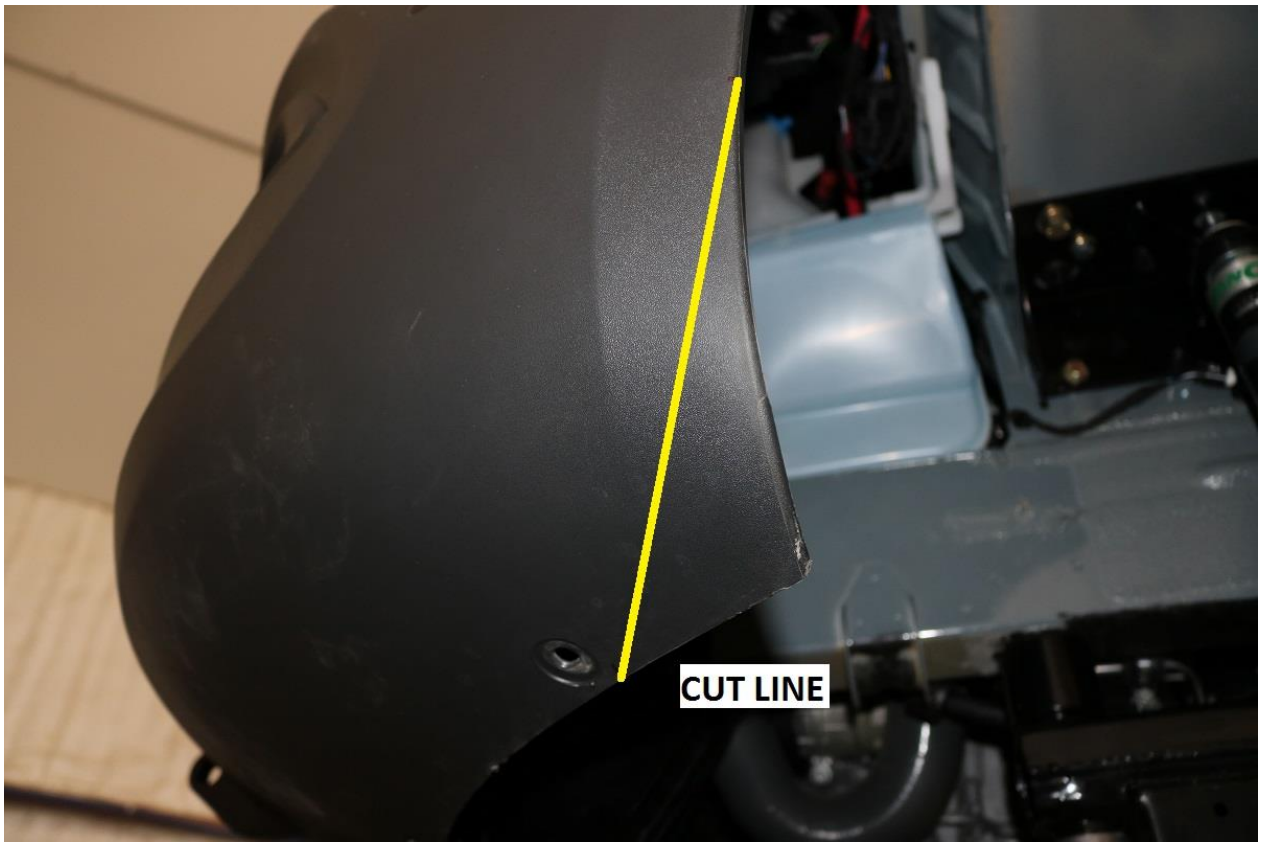




17) Mark a line at the bottom of the push pin mounting hole shown below. This is the bottom push pin mounting hole on the outside lip of the front bumper cover.

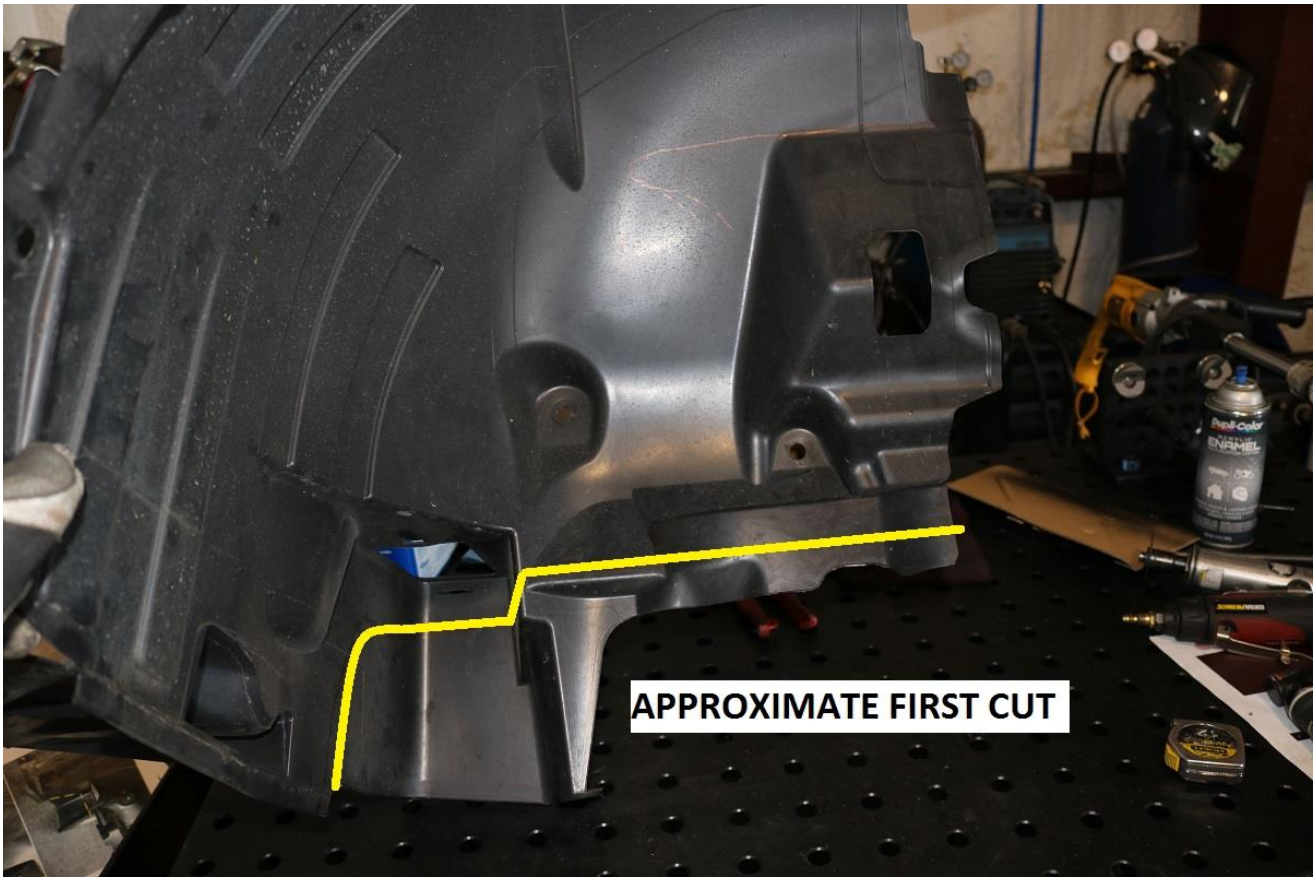


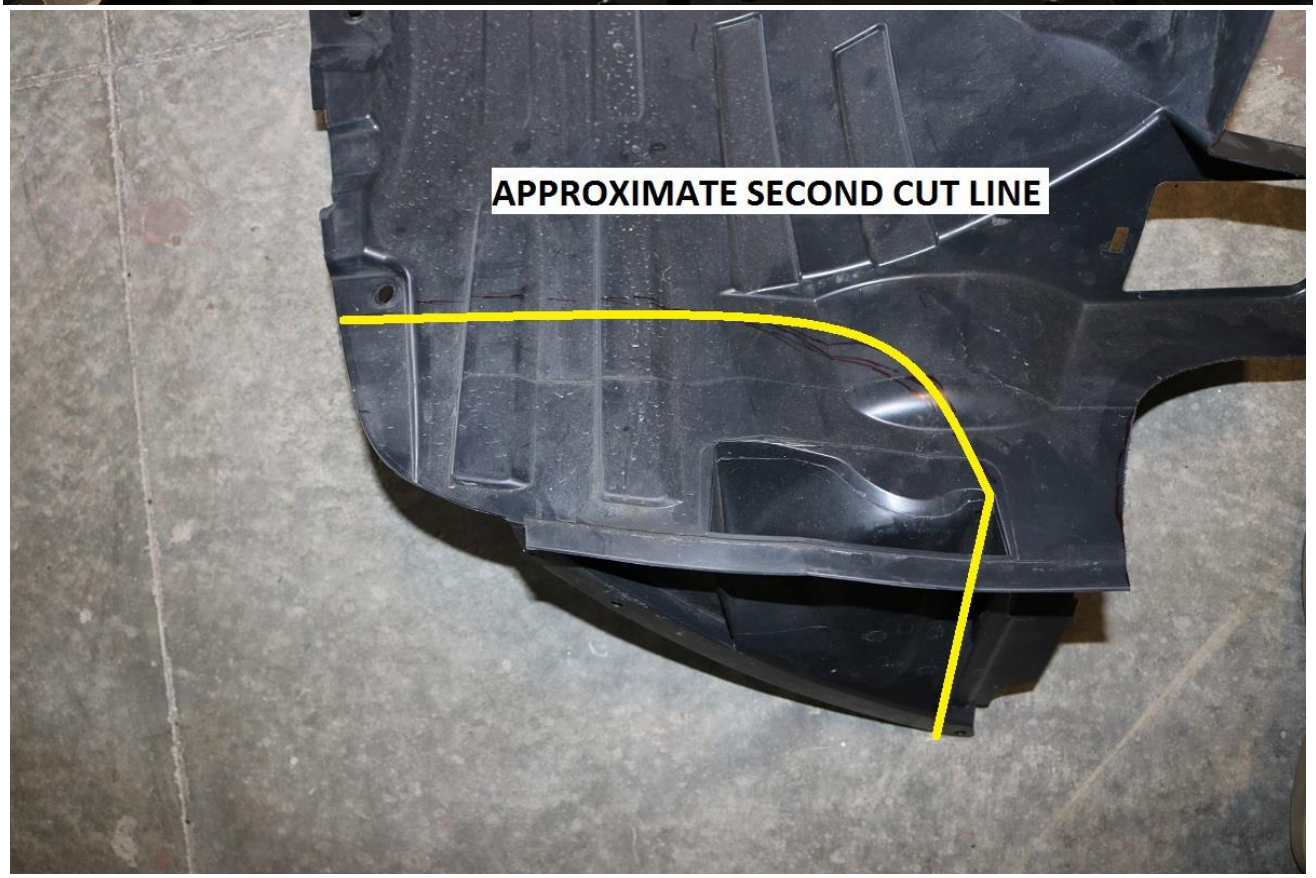

18) From the line marked in the previous step, continue cut line down so it is tangent with the bottom outer push pin hole in the front bumper cover. See image below for reference.




19) Use a 4-1/2” angle grinder or similar cutting tool to cut on this line. Deburr any rough edges with a file or sander of some sort.

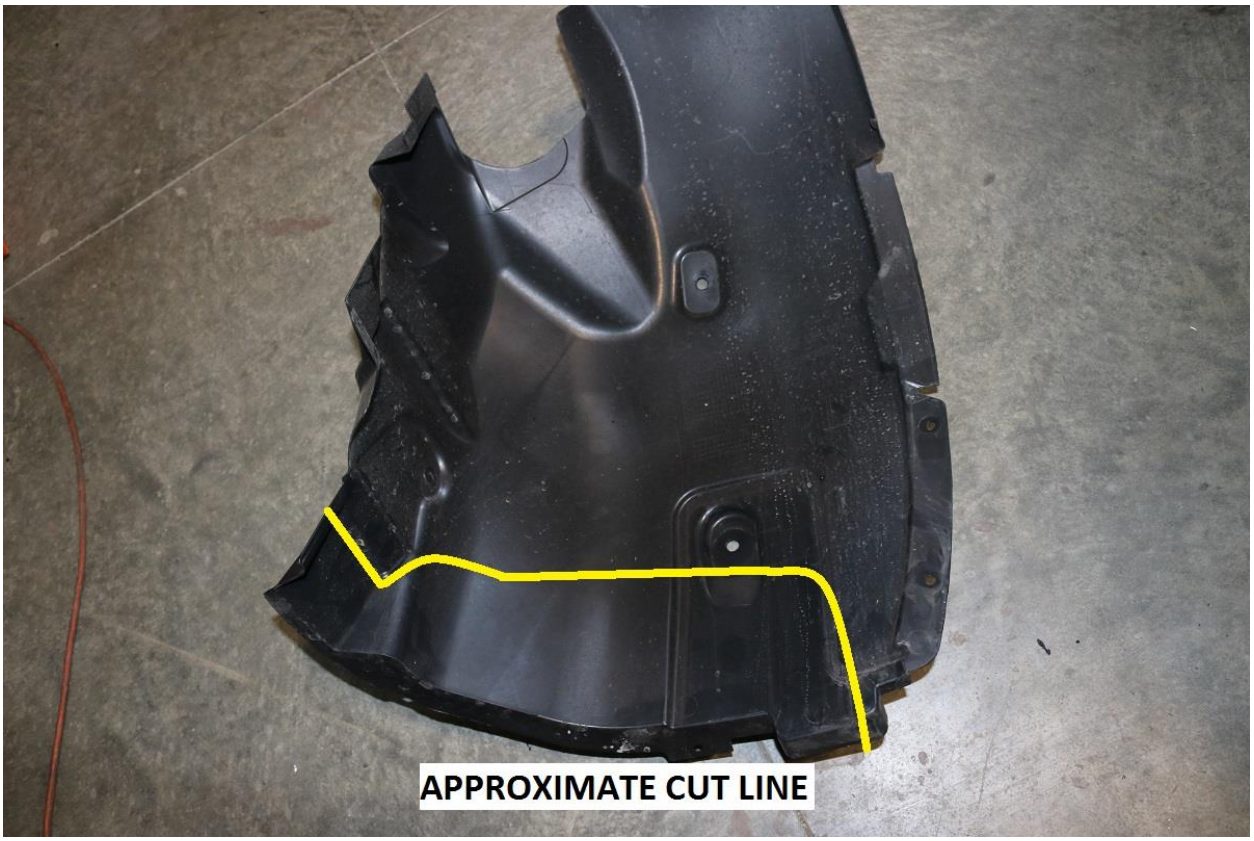
20) Cut the front half of the inner fender liner as shown in the images below. Use a pair of tin snips or quality HD scissors to cut the plastic.

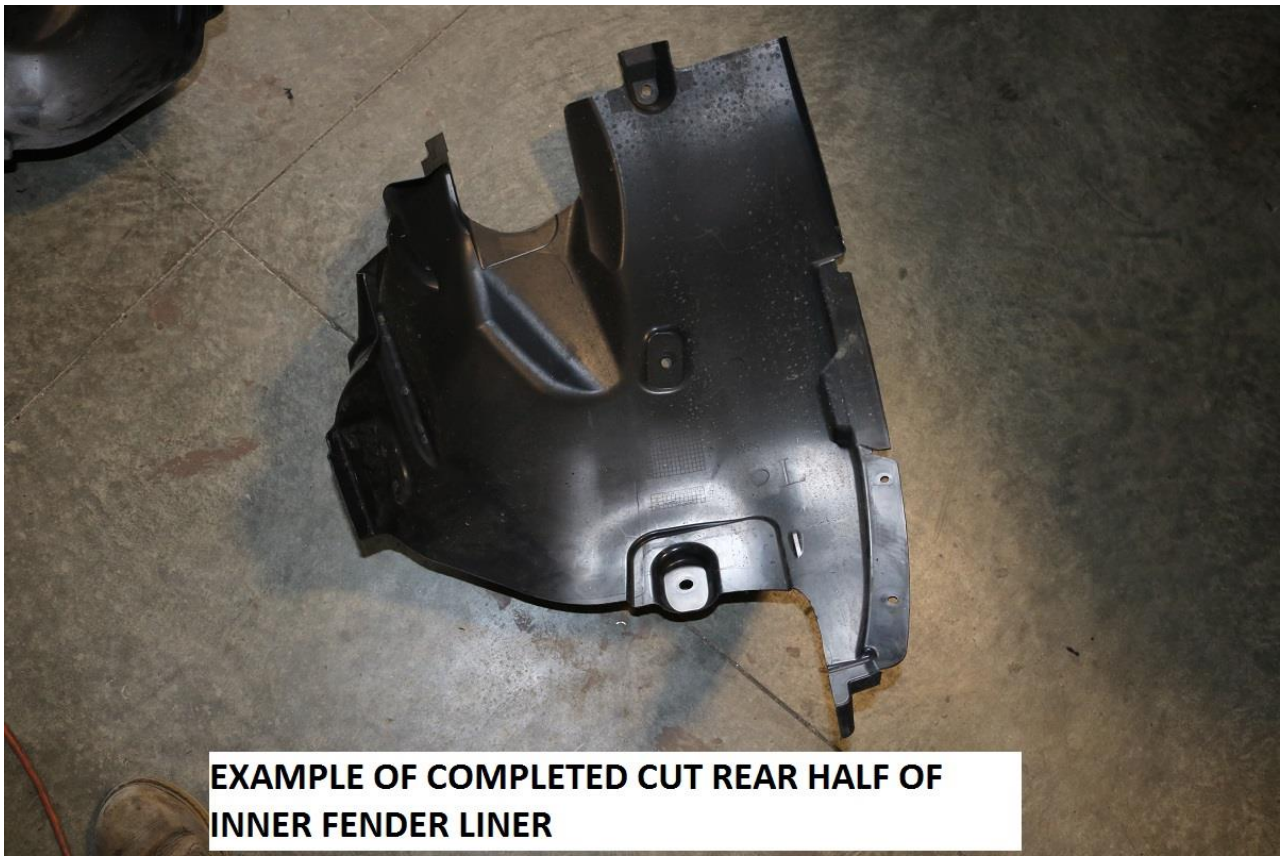


21) Example of a finished cut front inner fender liner is shown below.


22) Cut the rear half of the inner fender liners as shown in the images below.






23) Install fender liners and mudflap as shown below.


24) Re-install wheels / tires and lower van to ground.

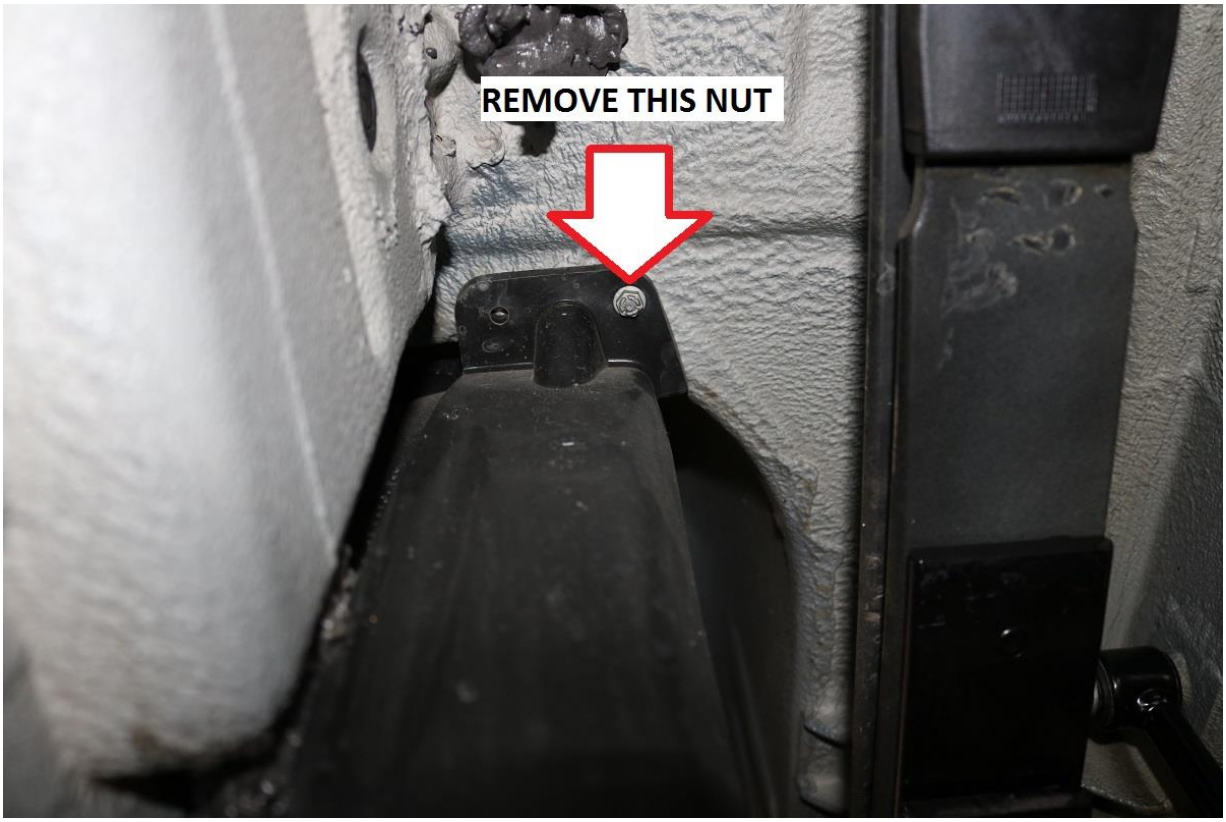
25) Turn the tires from lock to lock and check for clearance. If needed, add an additional self-tapping screw to the bottom of the mudflap as shown in the image below to retain the mudflap rearwards.


Rear Installation

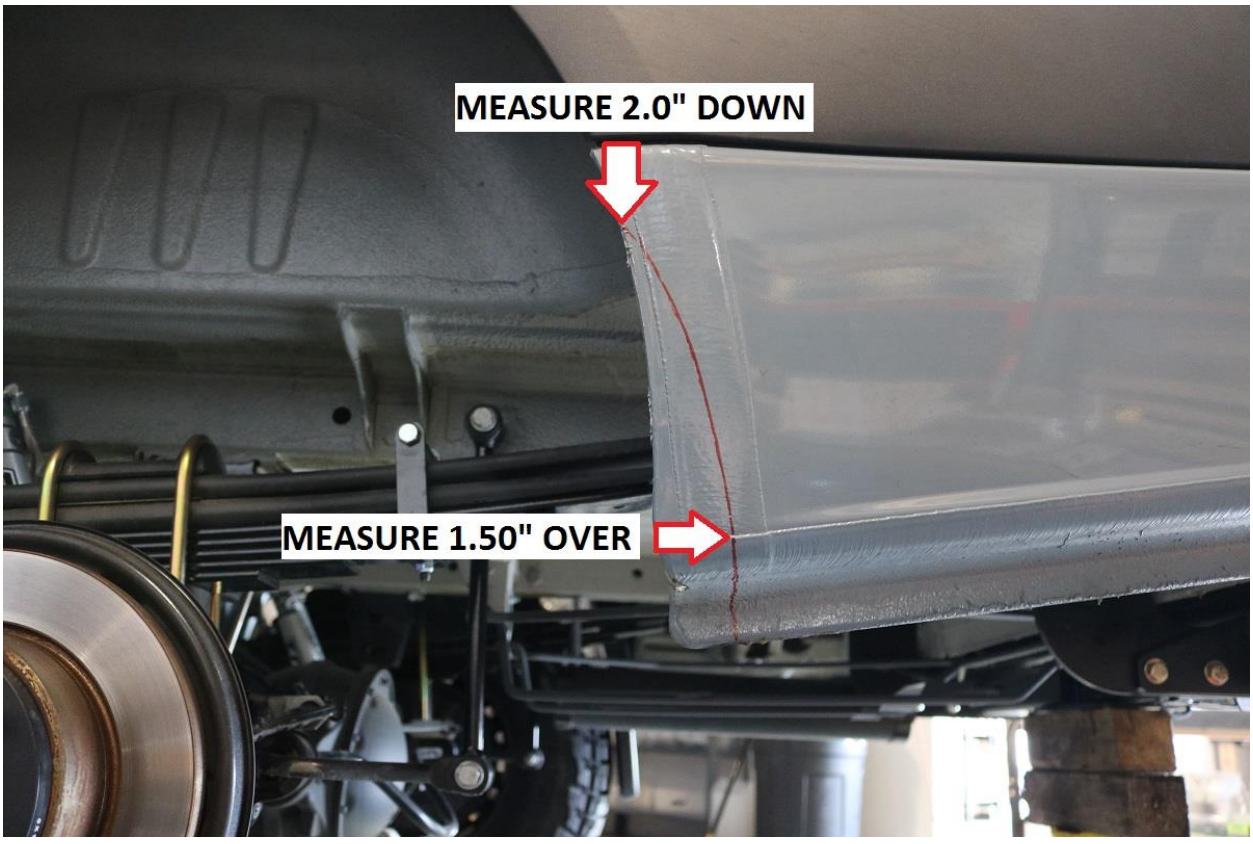
26) Again, the following instructions document the trimming necessary to fit 315/75/16 (35" tall tires. Less trimming can be done for 285/75/16 (33") tires and smaller. 265/75/16 tires require no trimming in the rear.

27) Remove the rear mudflap by removing the two T-25 torx screws securing the mudflap to the rear fender.

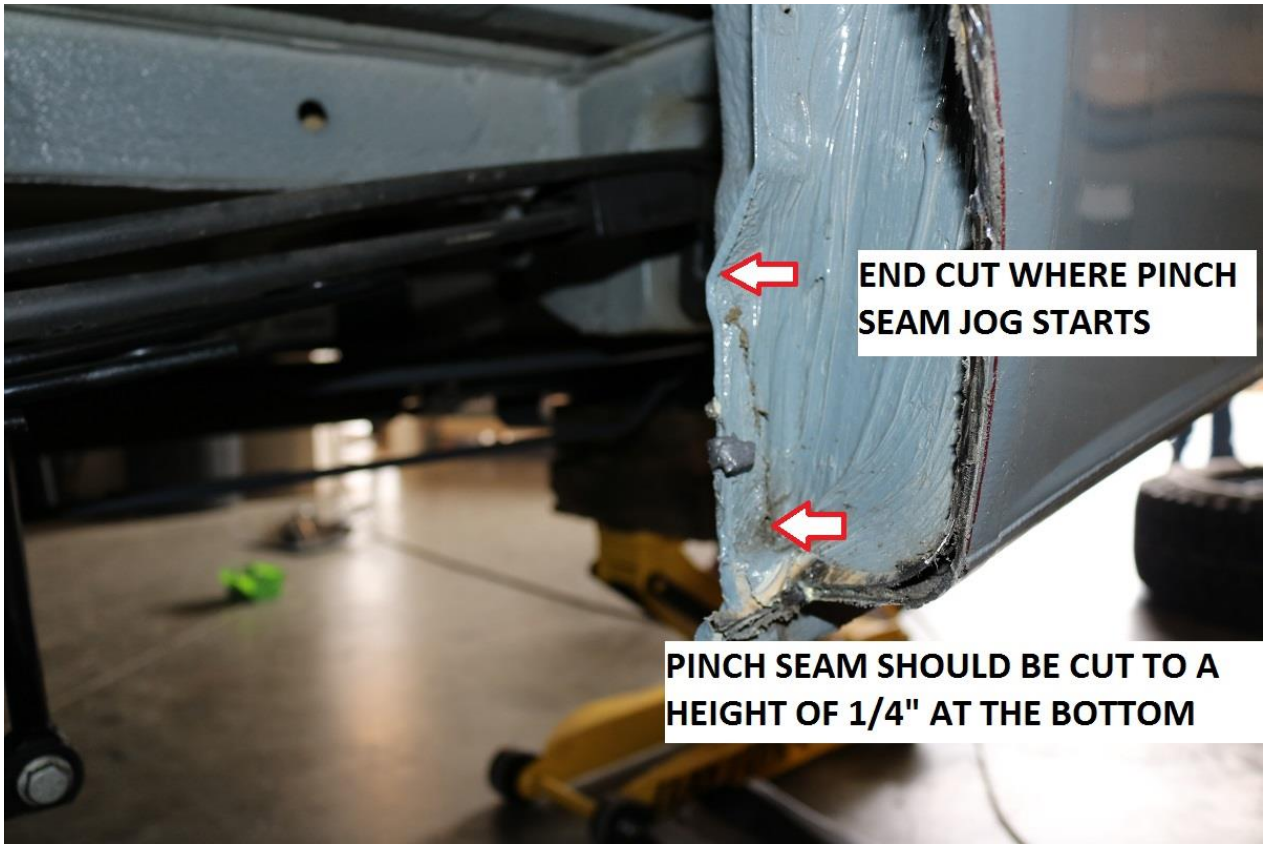
28) Move to the back inner side of the mudflap and locate the 10mm nut securing the mudflap to the vehicle. Remove this nut and remove the mudflap.




29) With the mudflap removed, measure 1.5” back on the rear of the rear fender. Measure 2.0” down from the bottom of the plastic body molding. Mark a gentle arc using the image below as a guide to mark a cutline.



30) Using the line marked above as a guide, cut the fender using a 4-1/2” angle grinder with cut off wheel.
    a. Once the outer portion of the fender is removed, cut the inner pinch seam as shown below.




31) Sand smooth any rough cut edges and paint any exposed areas of metal to prevent corrosion. Below is an example of the finished cut fender prior to painting.

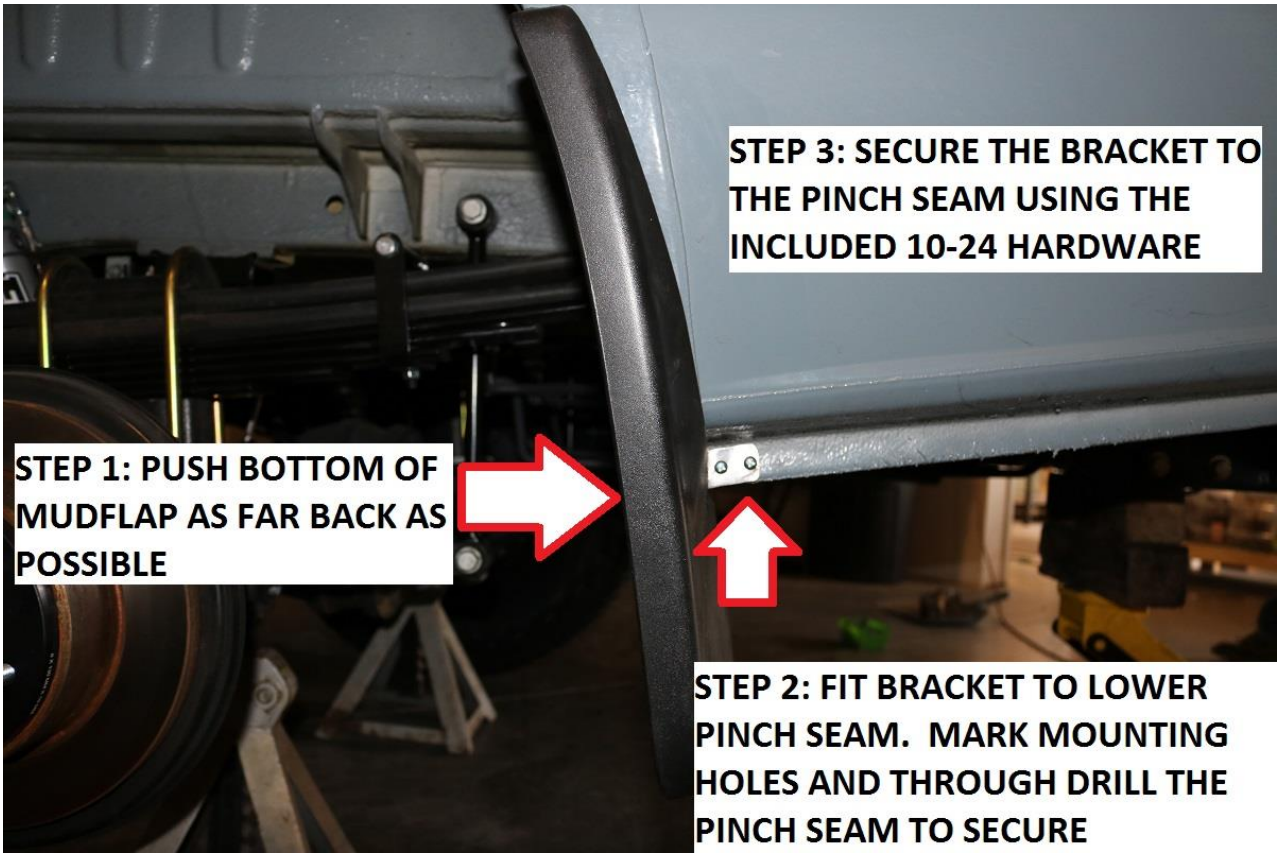
32) Trim the rear mudflap as shown in the image below. A pair of tin snips or quality scissors works well for trimming the mudflap.


33) Clean up any rough cut edges of plastic with a file or sander. Bolt the mudflap back on the vehicle using the 10mm nut removed in step 43.

34) Once bolted onto the vehicle, push the bottom of the mudflap back as far as it will go.

   b. Fit the new mudflap bracket to the pinch seam as shown in the image below. Fit it so the front tab of the bracket touches the mudflap.

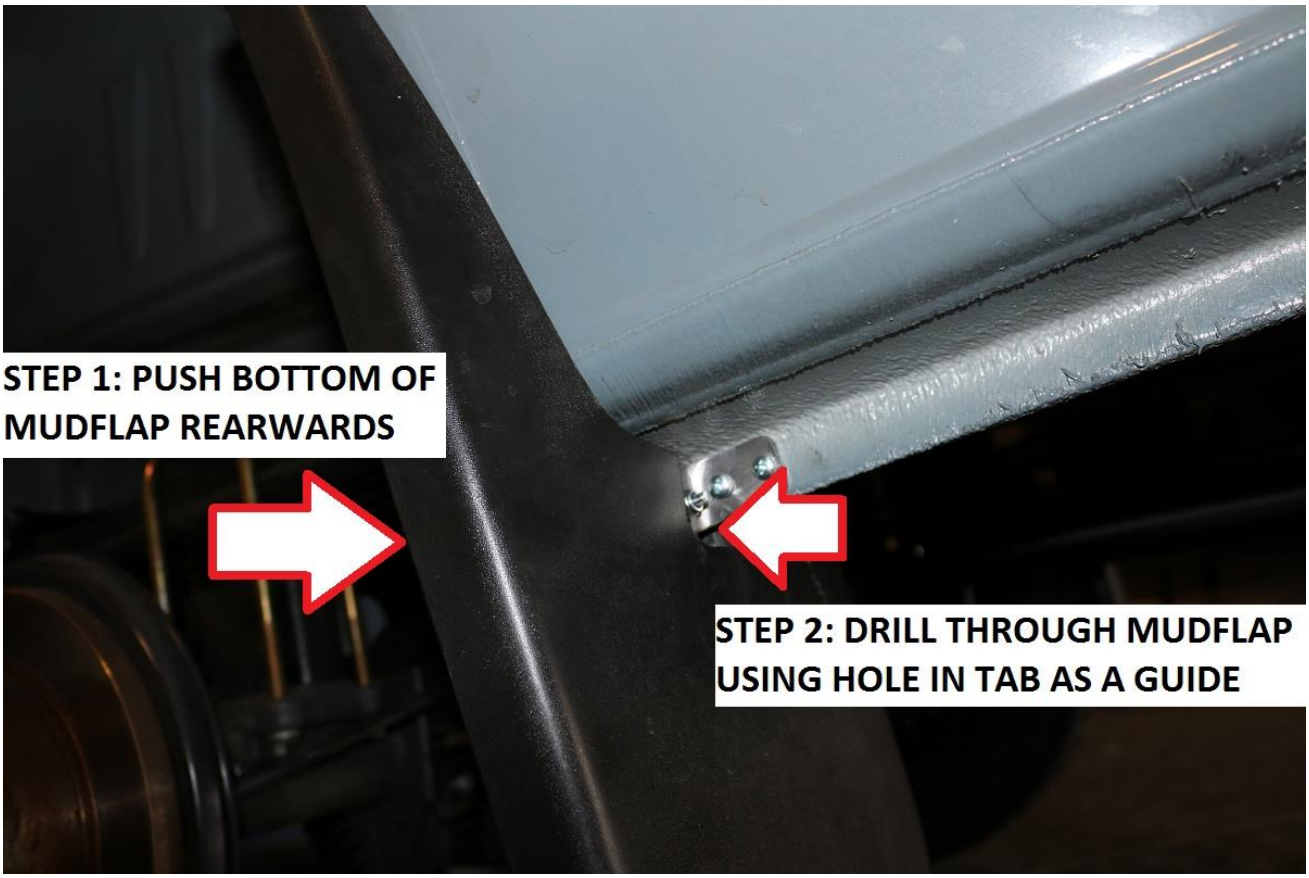
   c. Follow the steps outlined in the image below to fit the rear mudflap bracket to the vehicle.




35) With the bracket bolted in place, drill through the hole in the bracket which is contacting the mudflap. Use a 3/16” (5mm) drill bit.

   d. Use image below for reference.

   e. Once hole is drilled, secure mudflap to bracket using the included 10-24 hardware.




36) Now the bottom of the mudflap is secure. Use one of the self tapping screws to secure the top outer corner to the inner lip of the rear fender.

f. See images below for reference.


37) Re-install wheels / tires and lower van to ground. OEM torque specs for OEM wheels are as follows:

a. 2500 SRW: (177-187 ft-lbs (240-250 N.m)
b. 3500 DRW: 140-150 ft-lbs (190-200 N.m)

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 incompliance. 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.