



4045 – 2013-PRESENT, RAM PROMASTER, POWERTRAIN SKIDPLATE

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 skid plate can be installed with the vehicle on the ground, sitting under its own weight.
- This is a bolt on skid plate that can be installed with simple hand tools. No drilling is required.
- This skid plate can be completely removed, allowing the vehicle to be returned back to stock configuration if desired.
- The factory plastic underbody tray needs to be trimmed for re-installation with this skid plate system.
- The vehicle's engine oil can be changed with the skid plate installed.

Parts List

4045 – 2013-PRESENT, RAM PROMASTER, POWERTRAIN SKIDPLATE

- | | |
|-------------------------|--|
| • (1) 404503 | MAIN SKIDPLATE |
| • (1) 404506-LH | LH FRAME PLATE |
| • (1) 404506-RH | RH FRAME PLATE |
| • (1) 404507 | EXHAUST PLATE, 2022+ PROMASTER |
| • (1) 404508 | FRONT SKIDPLATE |
| • (1) 404509 | OIL ACCESS PLATE, 2013-2021 PROMASTER |
| • (7) CC5-7-10 | 7/16-14 X 1.0" LONG CARRIAGE BOLT |
| • (7) NFNC5-7 | 7/16-14 FLANGE NYLOCK NUT |
| • (4) HM10-1.25-50-10.9 | M10-1.25 X 50MM LONG HEX HEAD BOLT, FULL THD |
| • (4) NFNM10-1.25 | M10-1.25 FLANGE NYLOCK NUT |
| • (12) WFM-10 | M10 FLAT WASHER |
| • (4) BHCS02-03-SS | ¼-20 X ¾" LONG BUTTON HEAD CAP SCREW, SS |
| • (4) WF-02-SS | ¼" FLAT WASHER, SS |
| • (4) NCLC-4 | CLIP ON NUT, ¼-20 |

Tools Needed

- Quality Jack & 2 Jack stands
 - Optional – Automobile lift and screw jack or transmission jack
- Simple hand tools:
 - Torque Wrench

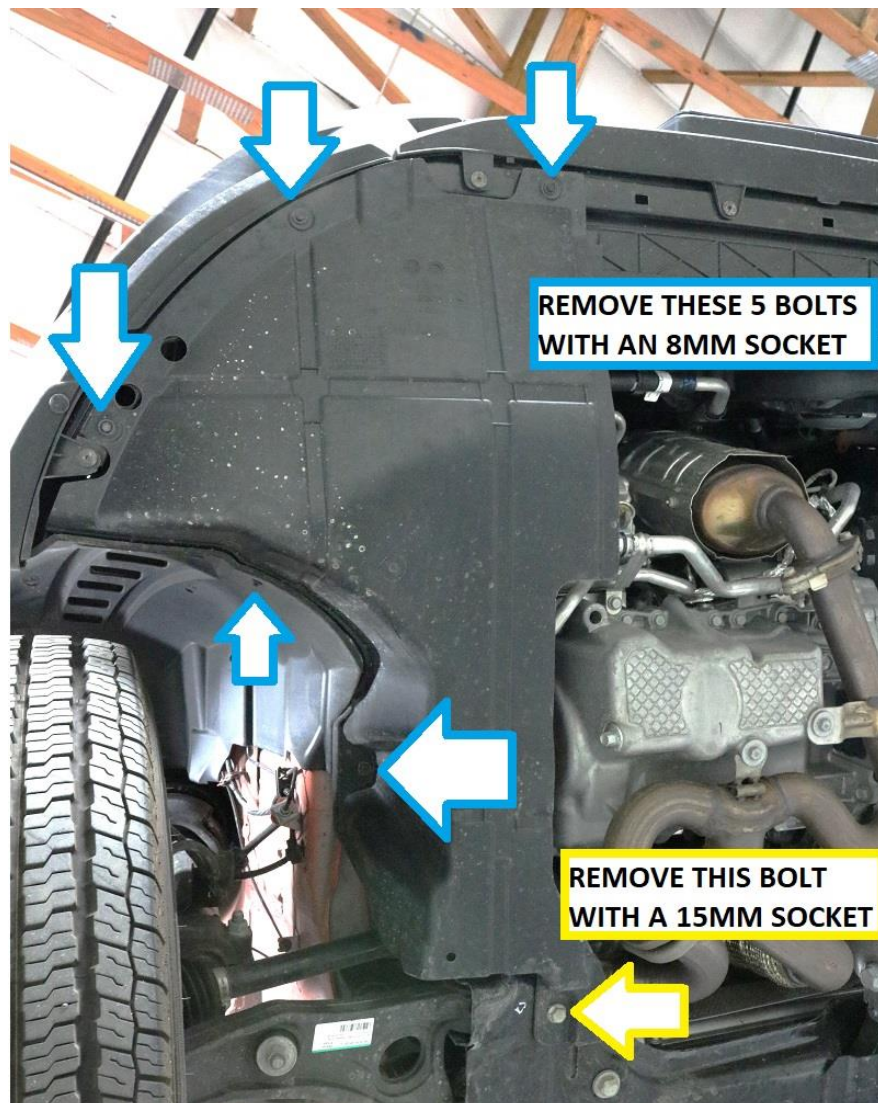
- Hammer
- Basic wrench and socket set:
 - Metric sizes: 8mm, 13mm, 15mm, 17mm, 21mm
 - SAE sizes: 5/8", 5/32" allen

Approximate Installation Time

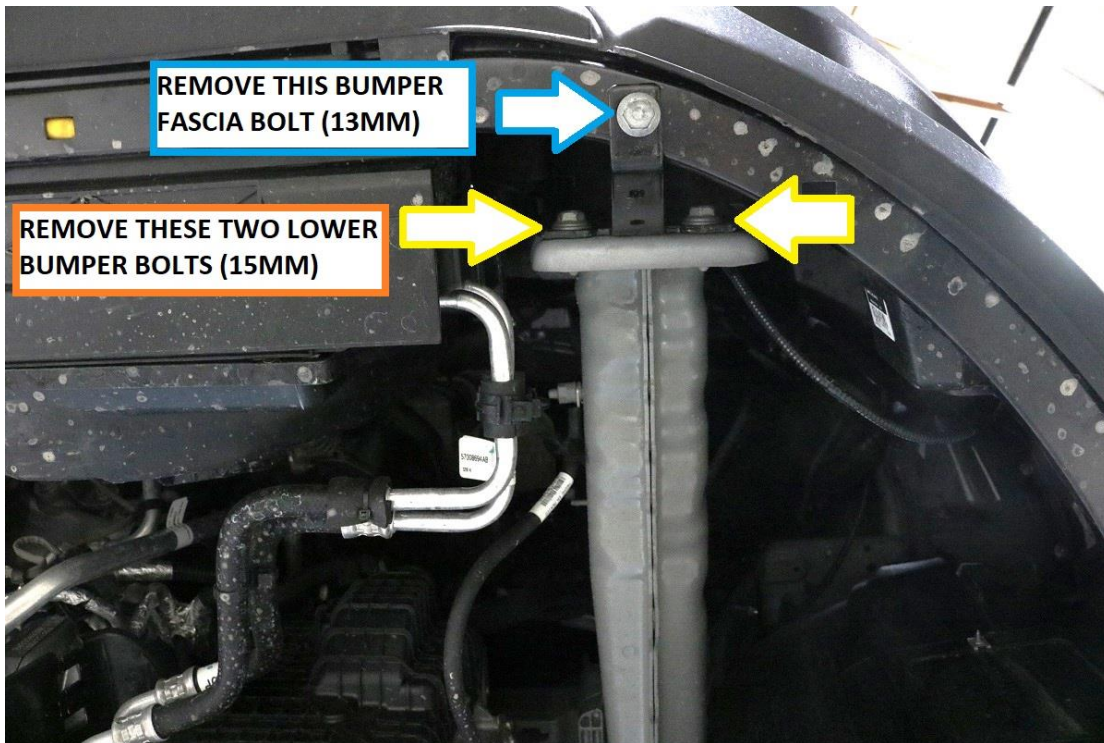
- Professional shop with automotive lift: 1 - 2 hours
- Driveway install with floor jack: 2 - 3 hours

Installation

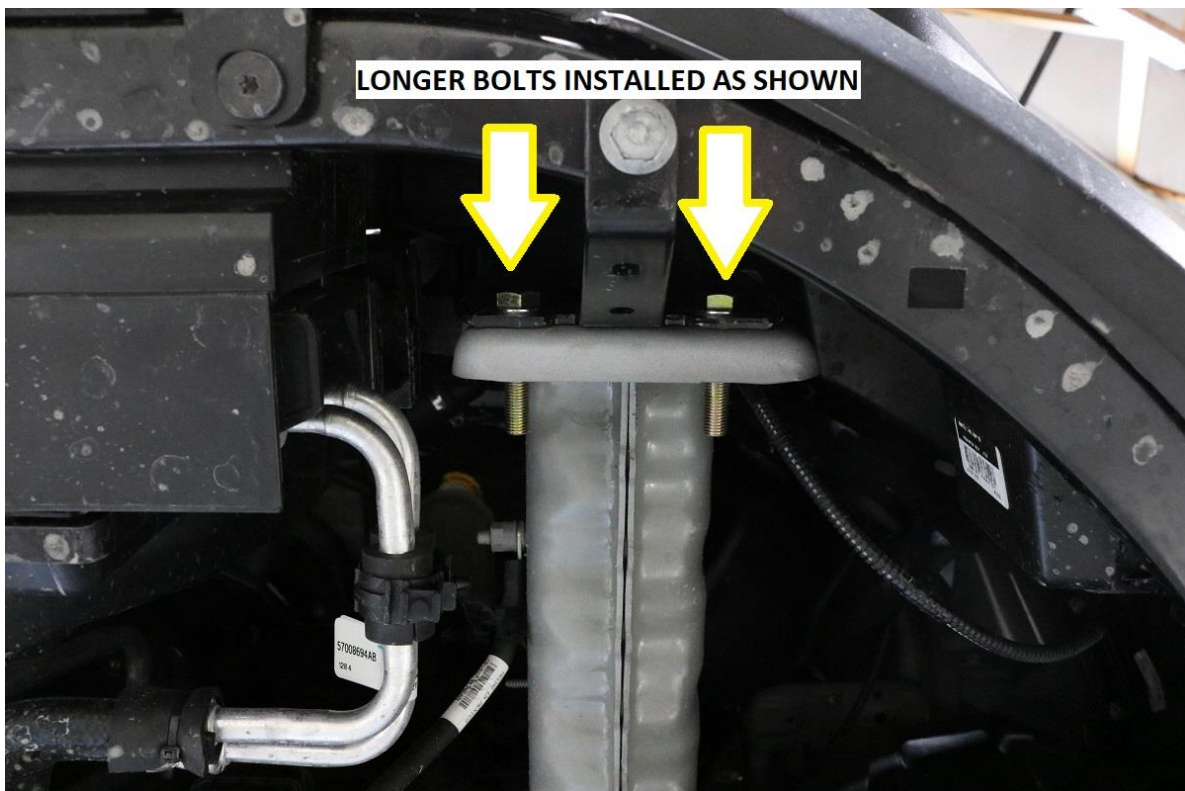
- 1) Note; this skid plate system can be installed with the vehicle on the ground. That being said, Promasters sit at a fairly low ride height and it is much easier to install this with the vehicle safely raised and supported for a comfortable under vehicle working height.
- 2) Simultaneously perform steps on both sides of the vehicle unless otherwise specified.
- 3) Begin by removing lower fender liner on the passenger side.
 - a. Locate and remove the three 8mm bolts along the bottom of the front bumper
 - b. Locate and remove the two 8mm bolts in the lower wheel well location
 - c. Locate and remove the single 15mm bolt at the suspension subframe.



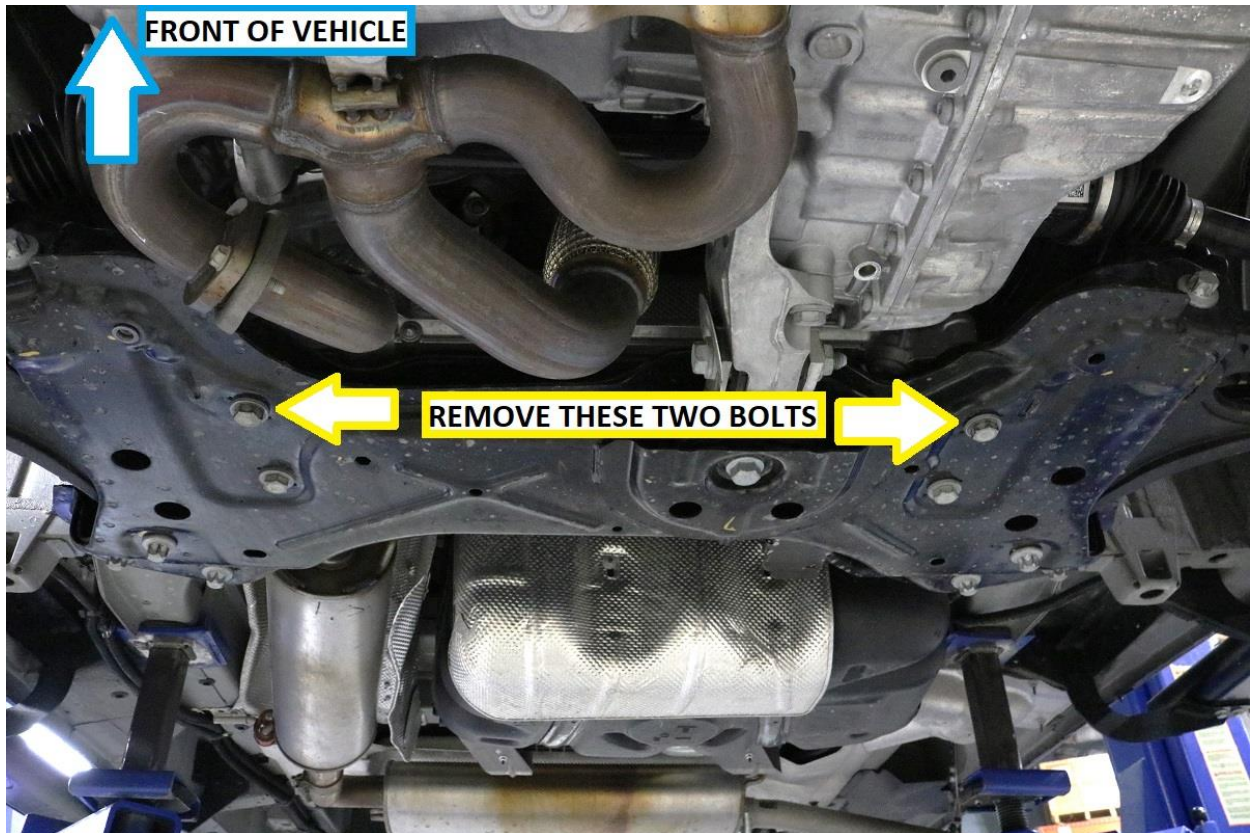
- 4) Locate and remove the two lower bumper bolts behind the front bumper fascia. Use a 15mm socket / wrench for removal.
- At the same time, remove the small vertical bolt securing the bottom bumper fascia lip to the chassis. Use a 13mm socket / wrench for removal. Retain this bolt as it will be reinstalled later.
 - See image below for reference.



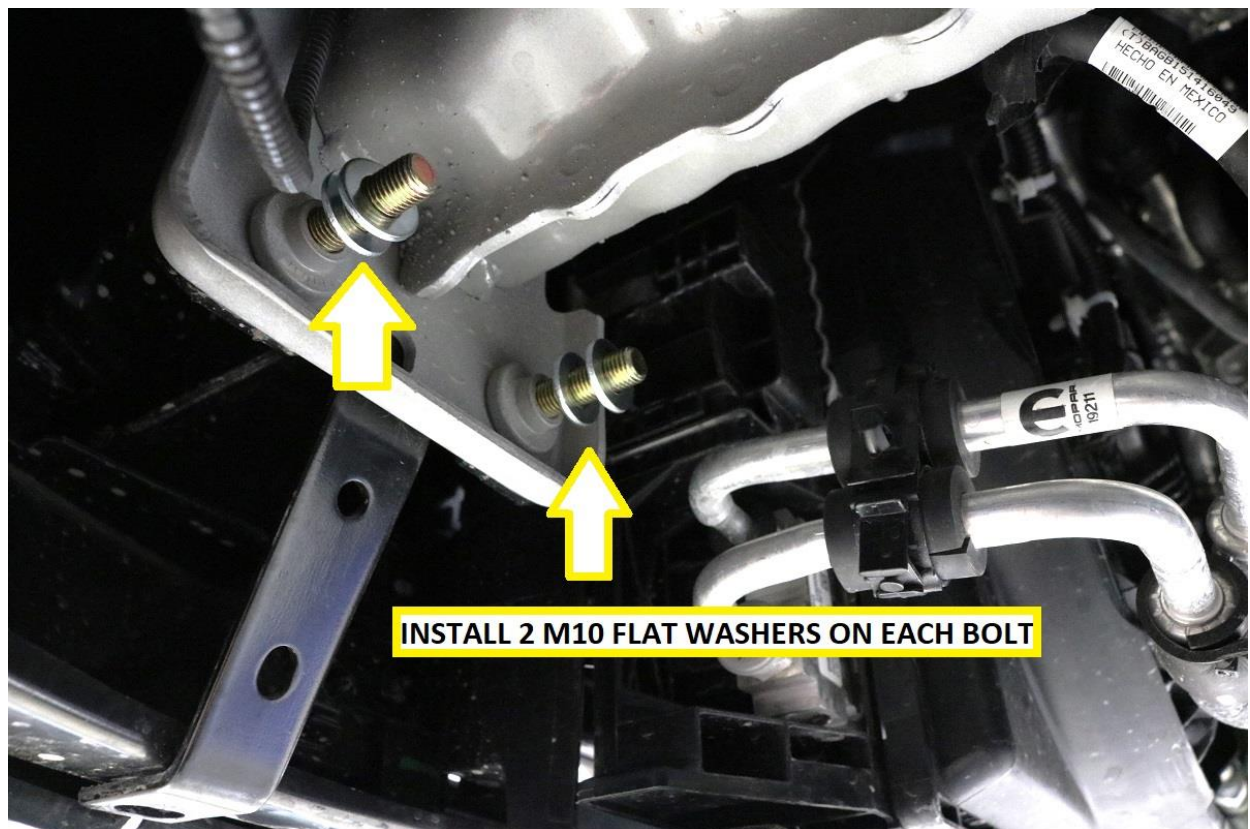
- 5) Replace the bolts removed in the previous step with the M10-1.25 x 50mm long hex head bolts as shown in the image below. Be sure to use a washer under the bolt head.
- Use a 17mm wrench to install and torque bolts to 35 ft-lbs (47 N.m)



- 6) Use a 21mm socket to remove the forward steering rack bolts. See image below for reference.

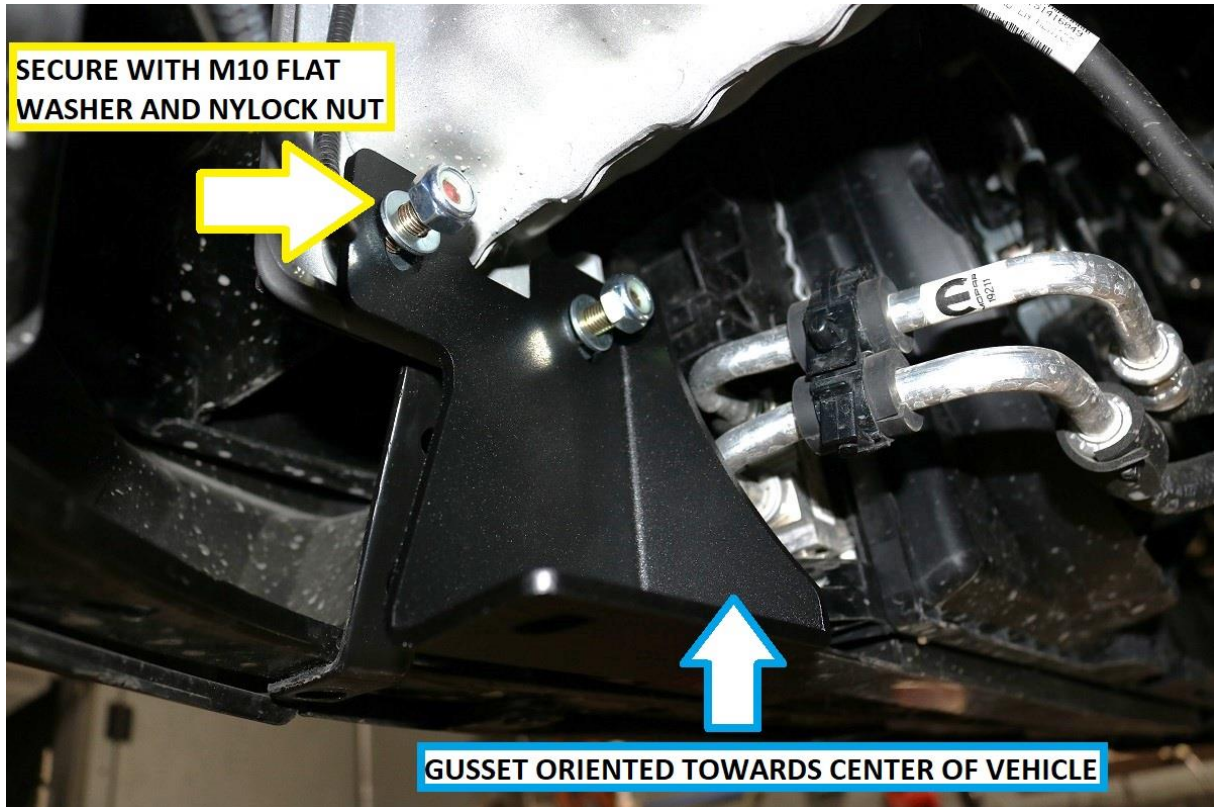


- 7) Place 2x M10 flat washers on each bolt installed in step 4. See image below for reference.



- 8) Fit the 404506 frame plates over the M10 bolts as shown below. Use an M10 flanged nylock to retain them to the vehicle. Use a 17mm wrench to snug the bolts just to the point where the frame plates can still be adjusted.

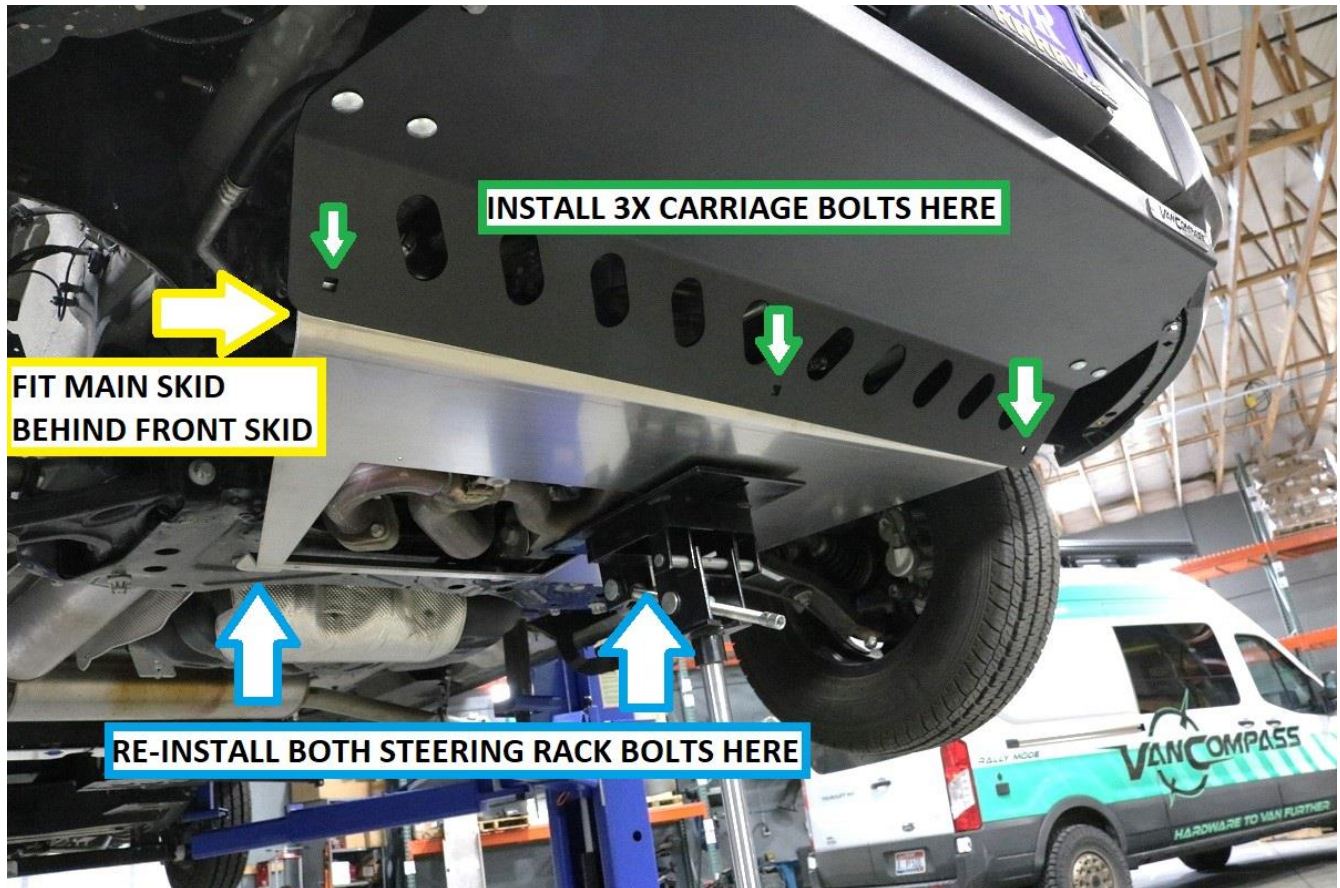
- a. Note – the frame plates are left and ride specific. The side with the welded gusset flange should be oriented towards the center of the vehicle.



- 9) Fit the front plate to the vehicle. Utilize the OEM M8 flange bolt for the bottom bumper fascia previously removed in step 4. Additionally, use 4 of the included 7/16-14 x 1.0" long carriage bolts to secure the front plate to the frame plates.
- a. Secure using a flat washer and nylock nut.
- b. Tighten the bolts with a 5/8" wrench to the point where the skidplate can still be adjusted.

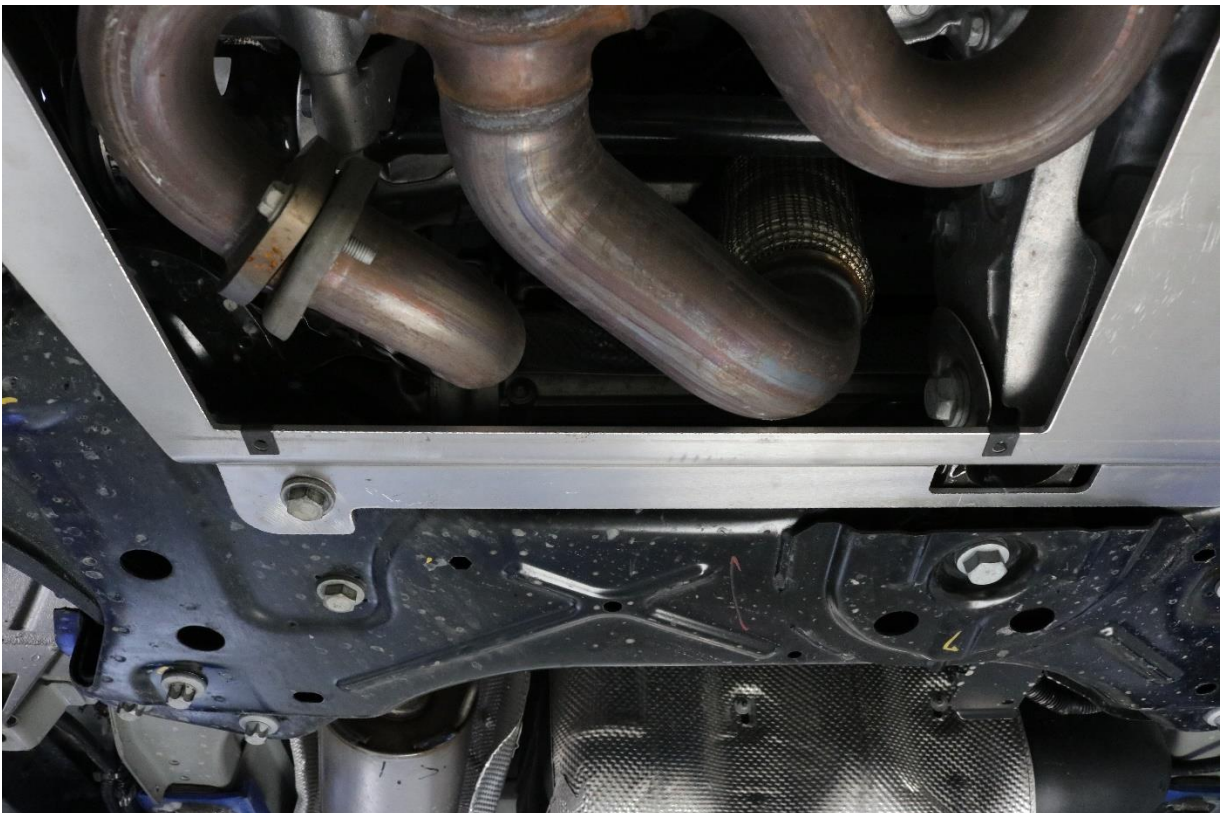
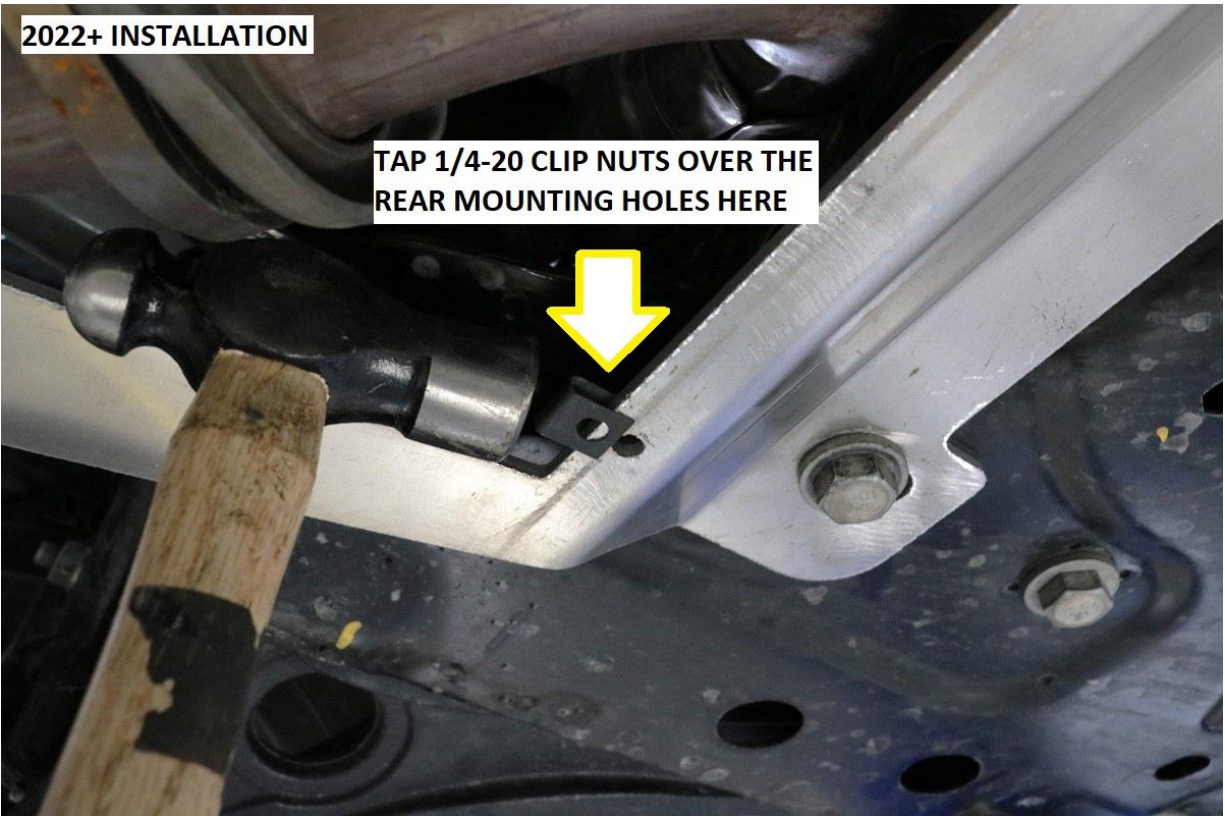


- 10) Fit the large 404503 main skid plate to the vehicle. Note, the main skid fits behind the front skidplate as shown below.
- Secure the main skid to the chassis using the OEM steering rack bolts previously removed in step 6. Snug these bolts to the point where the main skid can still be adjusted.
 - Secure the main skid to the front skid using 3 of the included 7/16-14 x 1.0" long carriage bolts. Utilize the included flanged nylock nut and snug hardware to the point where the skidplate can still be adjuster.

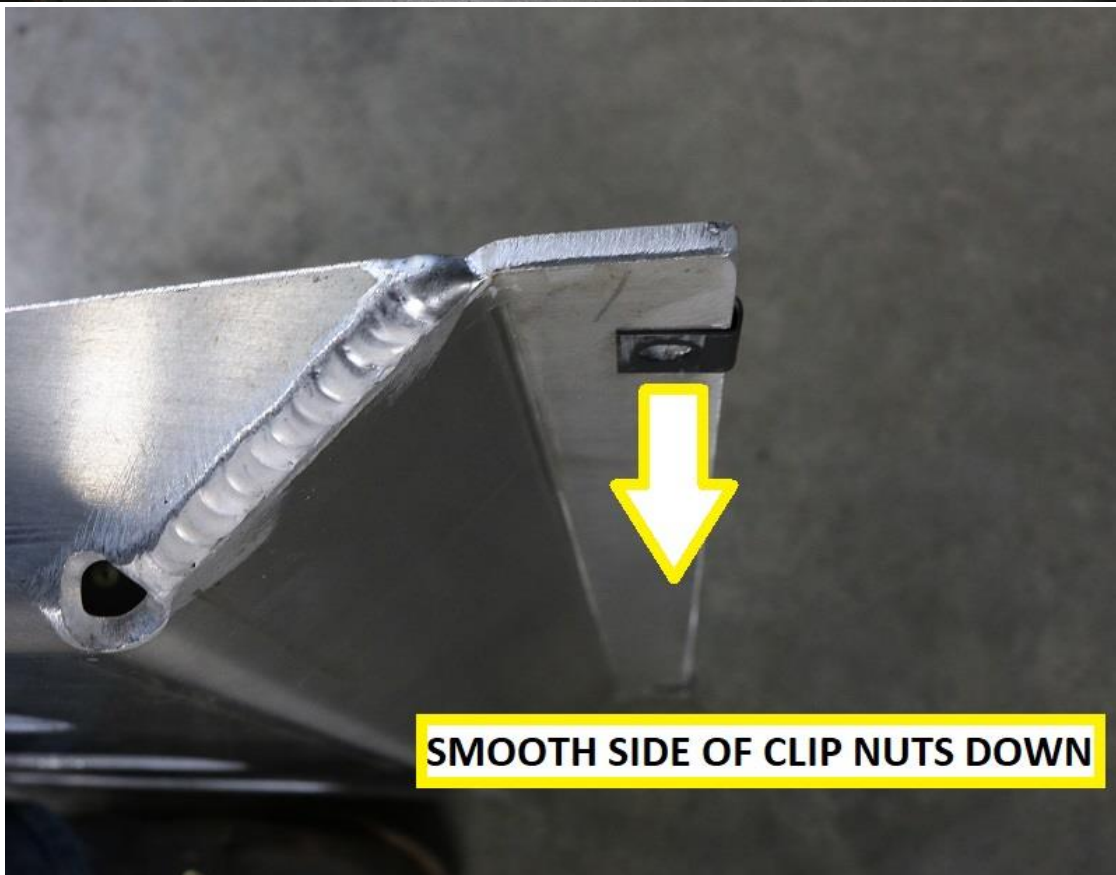


- 11) Adjust skidplate fitment as needed, once satisfied with fitment and clearances, fully torque hardware to the following specifications:
- M10 frame plate hardware, 17mm bolt / nut - 35 ft-lbs (47 N.m)
 - OEM front bumper lower fascia bolts, 13mm bolt head – 22 ft-lbs (29 N.m)
 - 7/16" carriage bolts, 5/8" nut – 40 ft-lbs (54 N.m)
 - OEM steering rack bolts, 21mm bolt head – 140 ft-lbs (190 N.m)
- 12) Steps 13-15 cover installation on a 2022+ model. If skid is being installed on a 2013-2021 model, skip to step 16

- 13) **For 2022+ models;** Tap the 1/4-20 clip nuts onto the rear flange as shown, note the smooth part goes towards the bottom / ground.

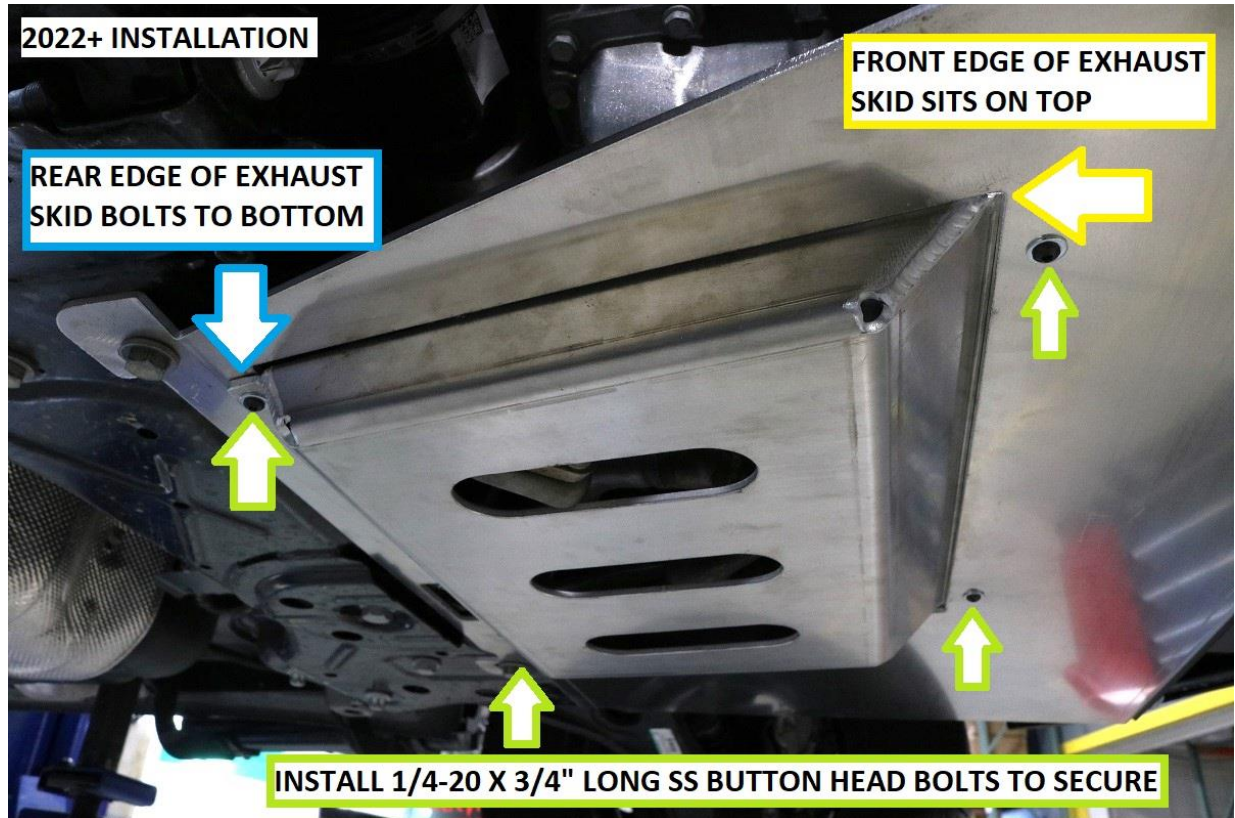


- 14) Install the 1/4-20 clip nuts onto the front flange of the formed / welded 404507 exhaust skid plate as shown. Note the smooth side of the clip nuts should be pointed towards the ground when installed.

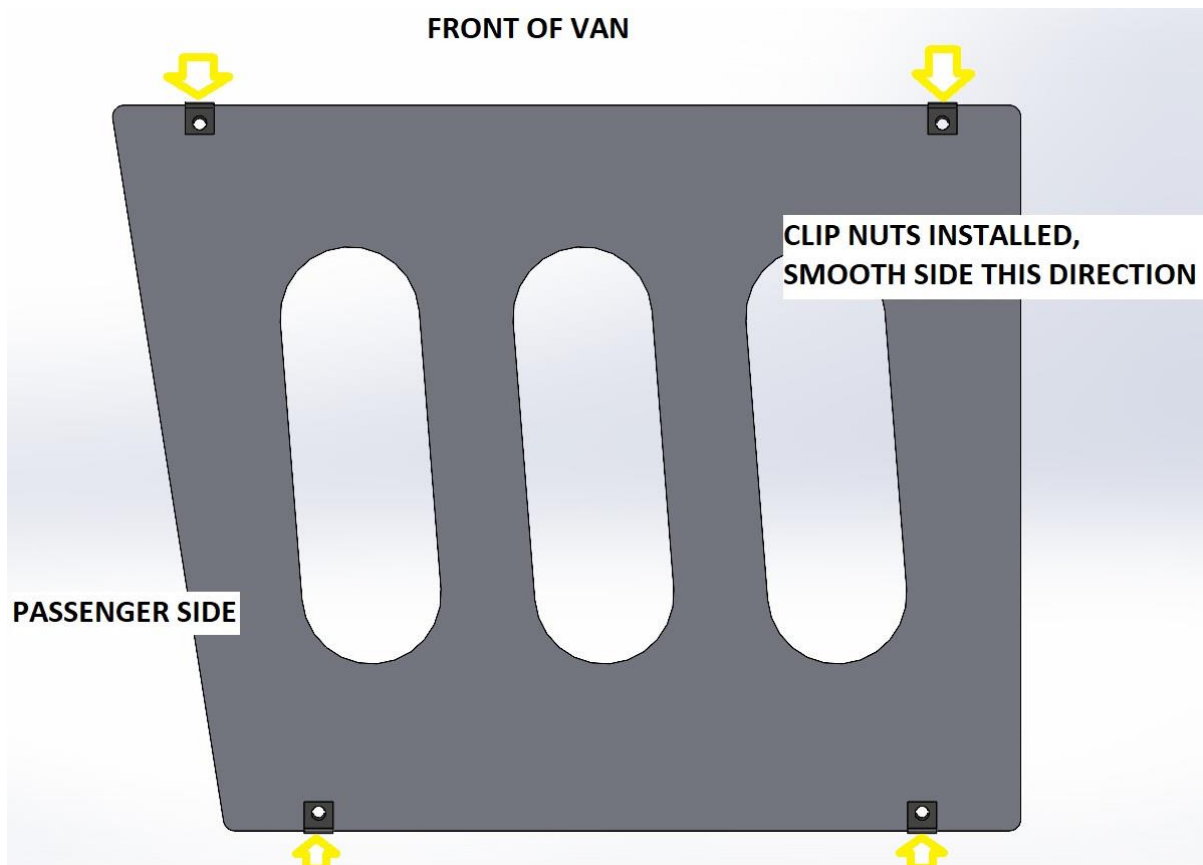


- 15) Fit the exhaust skid to the main skid as shown. Note the front edge of the exhaust skid sits on top of the main skid, while the rear edge of the exhaust skid sits on bottom.
- Secure the exhaust skid to the vehicle using the included 1/4-20 x 3/4" long SS button heads included with the kit. Use a 5/32" allen wrench and flat washer under the bolt head to tighten.

- b. Start all 4 button head bolts before fully tightening. Just snug bolts and add a ¼ turn for torque. DO NOT OVER TIGHTEN!



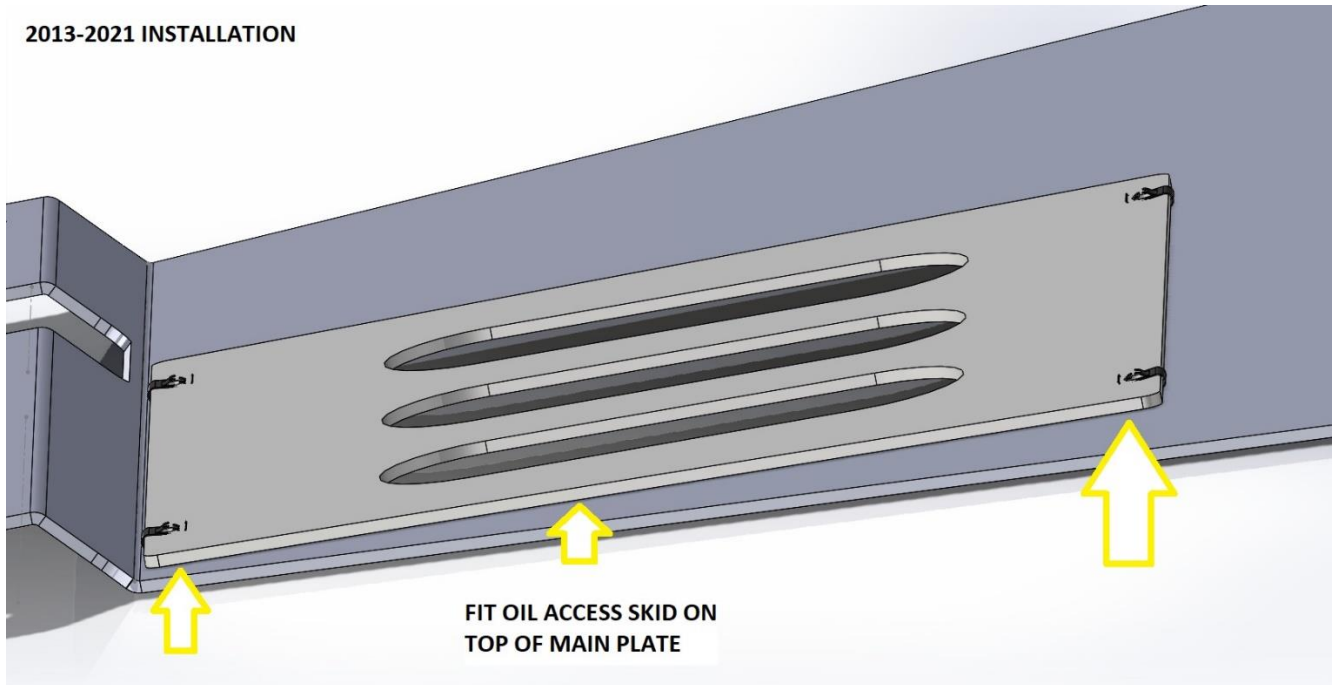
- 16) **For 2013-2021 models;** Install all four ¼-20 clip nuts onto the 404509 flat oil access plate as shown below. Note, this is showing the smooth side of the clip nuts.



17) With all 4 clip nuts installed, place the access plate on top of the main skid.

- a. Secure it to the vehicle with the $\frac{1}{4}$ -20 x $\frac{3}{4}$ " long button head SS bolts. Be sure to use a flat washer under the bolt head and snug with a $\frac{5}{32}$ " allen. Just snug bolts and add $\frac{1}{4}$ turn for torque. DO NOT OVER TIGHTEN!

2013-2021 INSTALLATION



18) **All model years:** Trim the lower fender liner as shown below and re-install using the OEM hardware previously removed.





19) Double check all bolt torques after 100 miles of driving.

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.