



1066 - 2023-PRESENT MERCEDES SPRINTER AWD LIFT SKID

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.
- **A proper alignment must be done immediately after installation of this product.**
- This is a bolt on suspension package that can be installed with simple hand tools and removed at a later time to return the vehicle to stock configuration if desired.
- This product is compatible with the Van Compass 4095 engine skid plate and 4096 transmission and transfer case skid plate.
- Some factory hardware will be reused.

Parts List

- | | |
|-----------------|--|
| • (1) 106601 | LIFT SKID, MAIN PLATE |
| • (2) 106602-01 | LIFT SKID, BUSHING LOCATOR PLATE |
| • (6) 106603-01 | LIFT SKID, BUSHING SPACER PLATE |
| • (1) 106604-01 | LIFT SKID, WIND ASSIST SENSOR BRACKET |
| • (1) 106605-01 | LIFT SKID, 4095/4102 ADAPTER PLATE |
| • (1) 106606-01 | LIFT SKID, REAR SPACER PLATE |
| • (5) CC5-5-11 | 5/16-18 UNC, GR5 CARRIAGE BOLT, 1.25" LONG |
| • (3) NNC-5 | 5/16-18 UNC NYLOCK NUT |
| • (2) NPC-5 | 5/16-18 PLAIN NUT |
| • (3) WF8-5 | 5/16" GR8 FLAT WASHER |
| • (2) BHCS02-03 | BUTTON HEAD CAP SCREW, 1/4-20 X 3/4" LONG |
| • (2) NNC-02 | NYLOCK NUT, 1/4-20 |
| • (4) NNC-03 | NYLOCK NUT, 3/8-16 |
| • (4) BHCS03-11 | BUTTON HEAD CAP SCREW, 3/8-16 X 1.25" LONG |
| • (4) BHCS03-13 | BUTTON HEAD CAP SCREW, 3/8-16 X 1.75" LONG |

Tools Needed

- One quality floor jack and 2 jack stands.
 - Optional – Automobile lift, one transmission jack / screw jack.
- Simple hand tools:
 - Torque Wrench
 - Basic wrench and socket set:

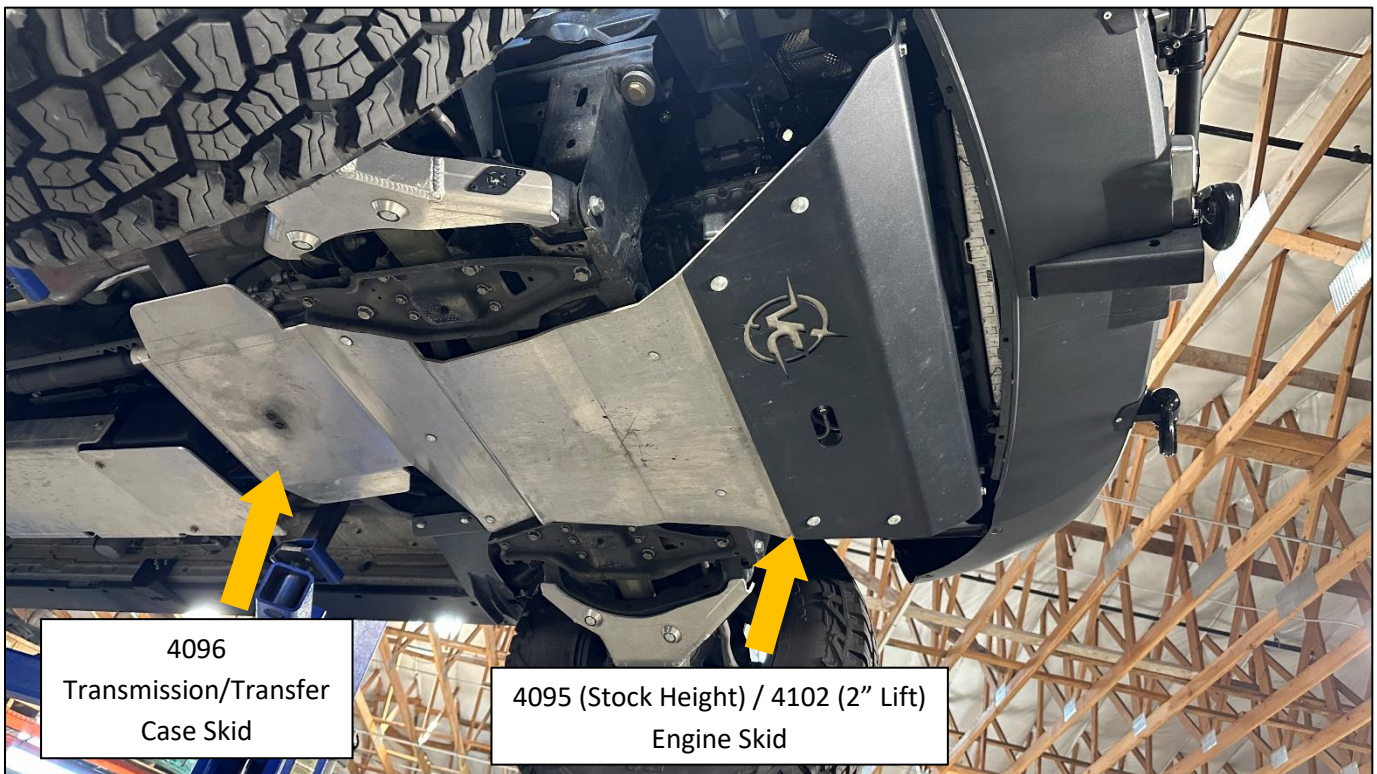
- Metric sizes: 10mm, 13mm, 15mm, 18mm
- SAE sizes: 7/16", 1/2", 9/16"
- Allen Wrenches/Socket
 - SAE sizes: 5/32", 7/32"
- T25 Torx Wrench/Socket

Approximate Installation Time

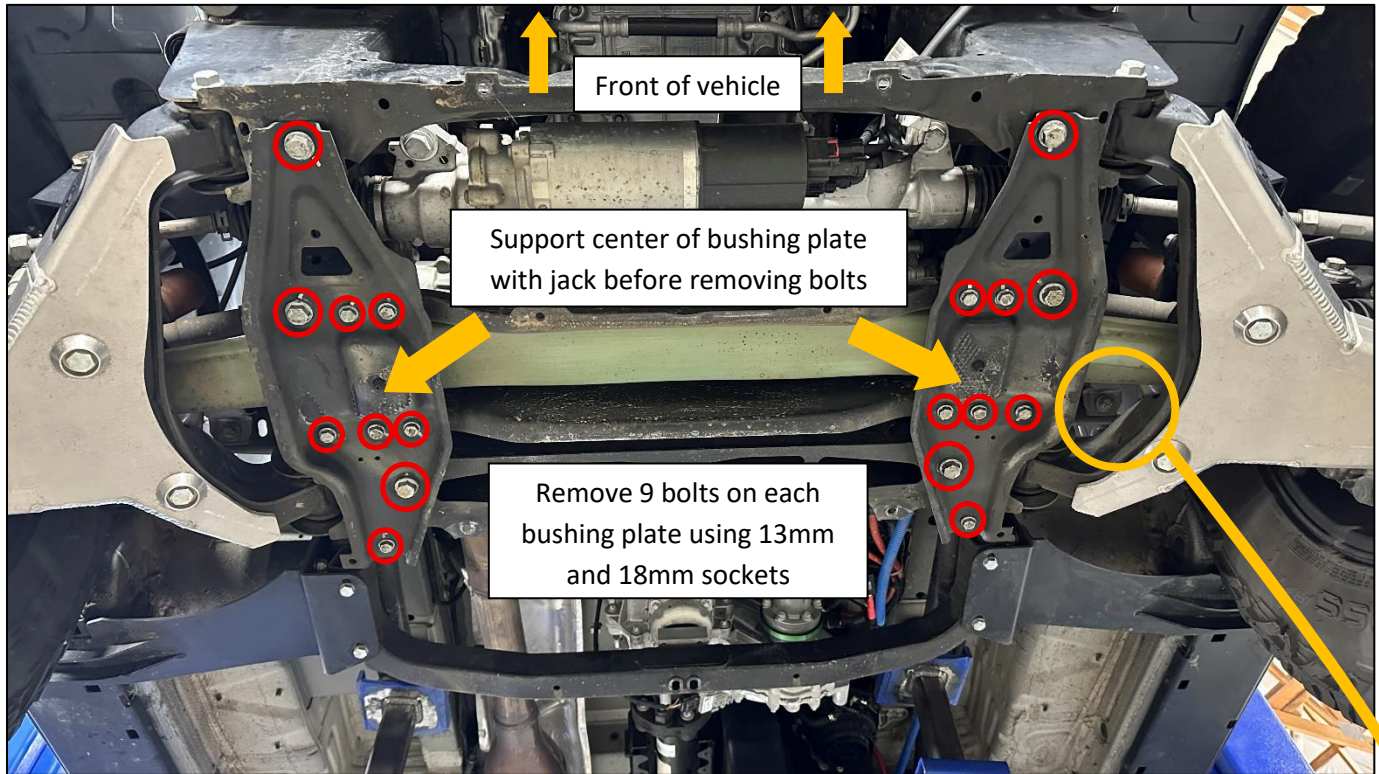
- Professional shop with automotive lift: 1-2 hours
- Driveway install with jack and jack stands: 2-3 hours

Installation

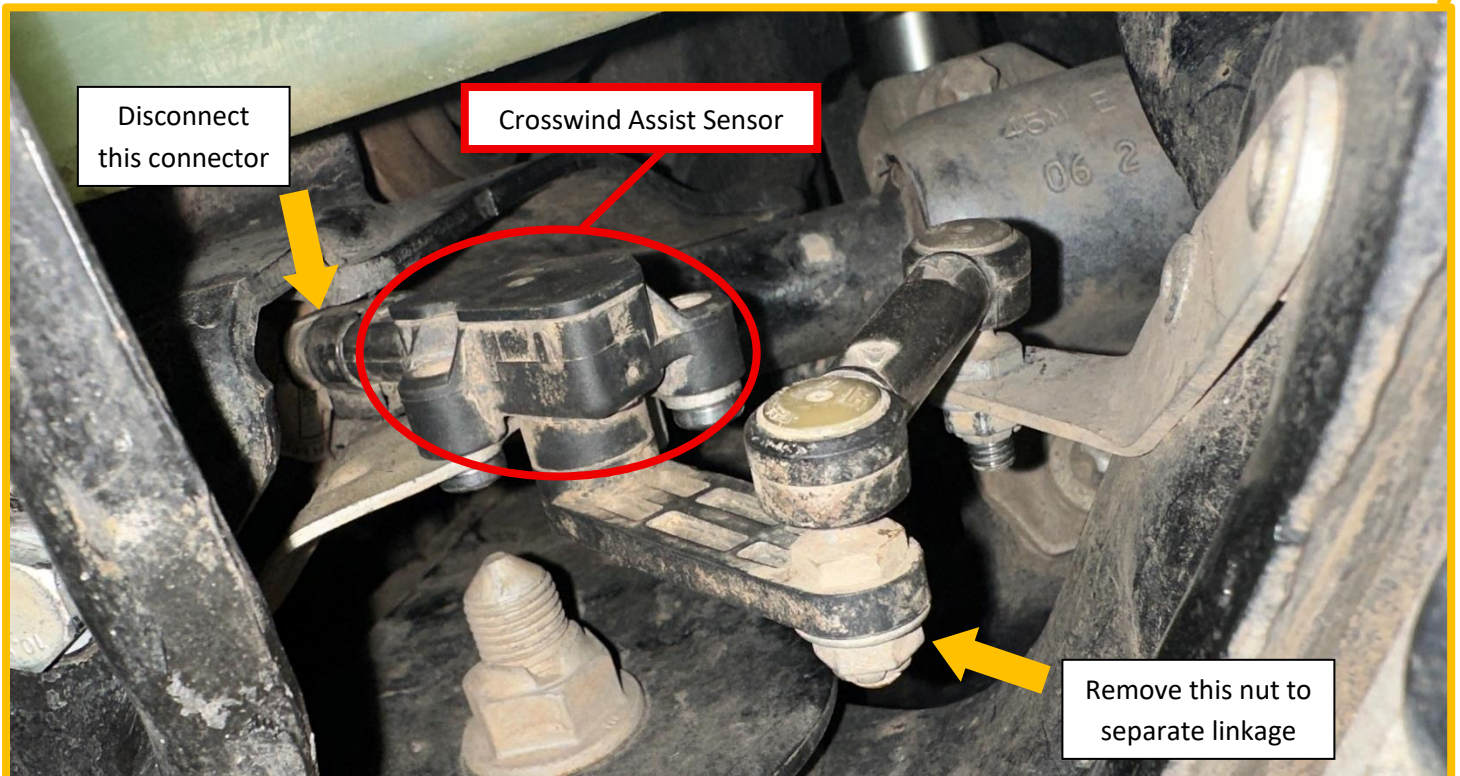
- 1) Lift the vehicle using a vehicle lift or a floor jack to safely support it on jackstands. Be sure that the front suspension is allowed to fully droop/extend without the tires touching the ground.
- 2) If the vehicle already has Van Compass 4095, 4102, or 4096 skid plates installed, refer to the instructions for those parts to remove them at this time. Instructions for these parts can be found at www.vancompass.com. If not, proceed to step 3.

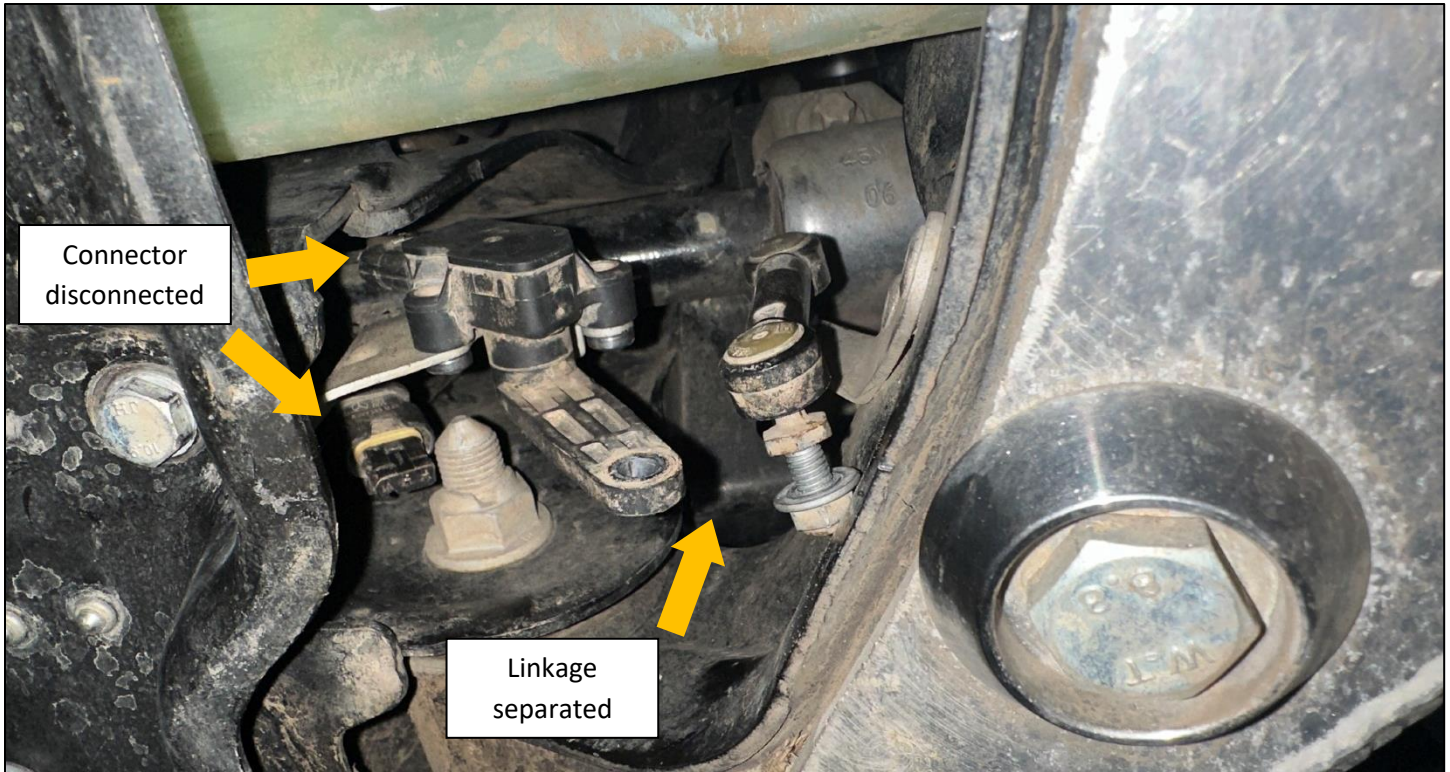


- 3) Use a jack to support the bottom of the left side bushing plate, then use a 13mm and 18mm socket to remove the 9 bolts securing the bushing plate. Retain hardware to be reused later.

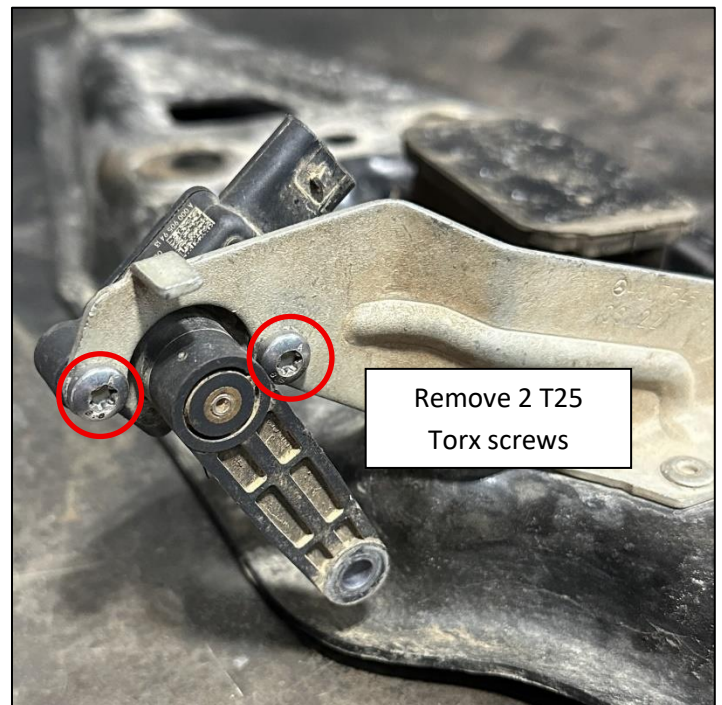


- 4) Vans equipped with Crosswind Assist will have a sensor mounted to the left side bushing plate. Disconnect the connector from the sensor, then use two 10mm wrenches to separate the 2 linkage arms. One arm should remain attached to the sensor, the other should remain attached to the control arm.





- 5) Lower the jack to release preload on the bushing, then set the bushing plate, bushing, and hardware aside. Repeat steps 3&5 to remove the right side bushing plate.
- 6) Remove and keep the bushings, set the bushing plates aside. The bushing plates will not be reused.
 - a. If equipped, remove the Crosswind Assist sensor from the bracket on the bushing plate with a T25 Torx wrench or socket. Set sensor aside to be reused later.



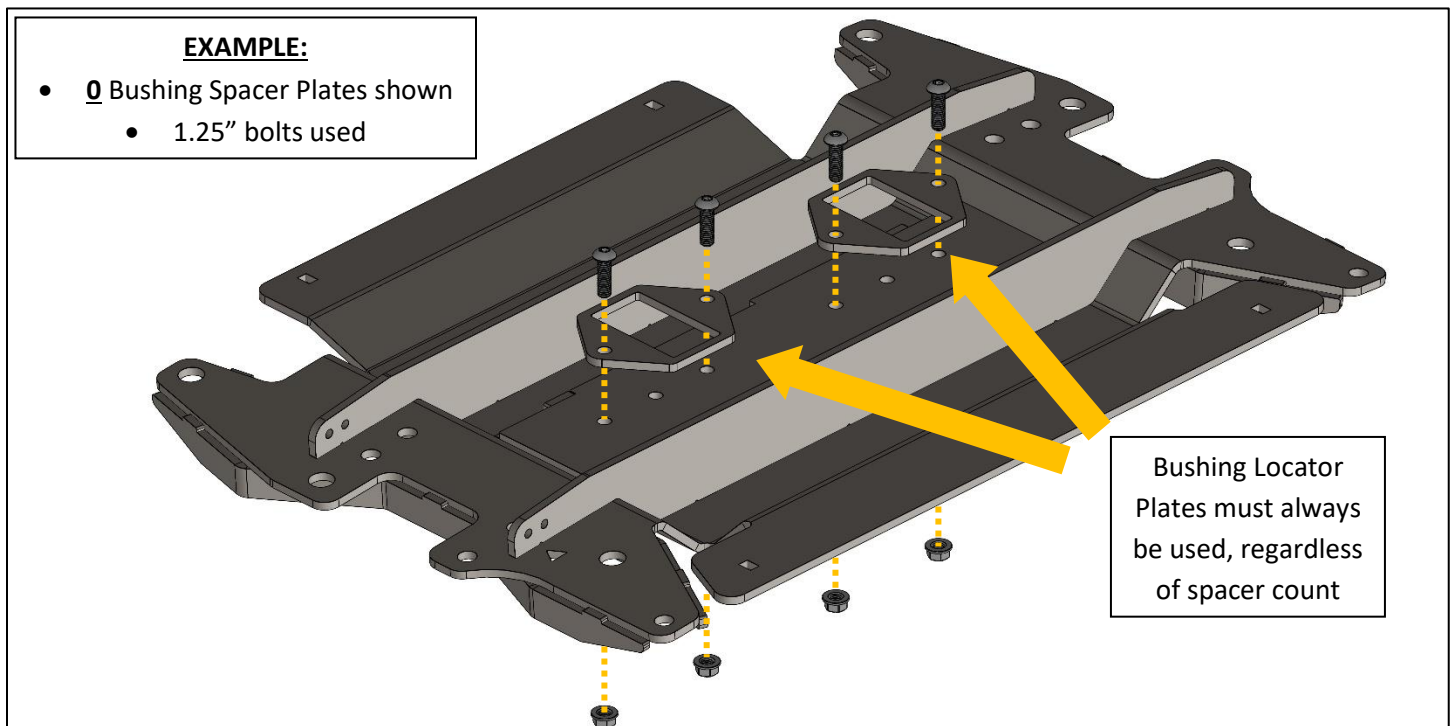
7) Prepare the lift skid for install.

- a. Begin by determining how many Bushing Spacer Plates and what length bolts are needed by referring the table below. These lift height measurements are approximate and should only be used as reference to decide on a starting point, adjustments will likely be necessary due to differing spring rates and vehicle weights. **Try to use as few spacers as possible** to reach lift height/handling goals, as each added spacer increases spring rate and could reduce ride quality.

Standard Weight (7800-8900lbs)		
Number of Bushing Spacer Plates	Approx. Lift Height	Bolt Length
0	0.3"	1.25"
1	0.65"	
2	1"	1.75"
3	1.5"	

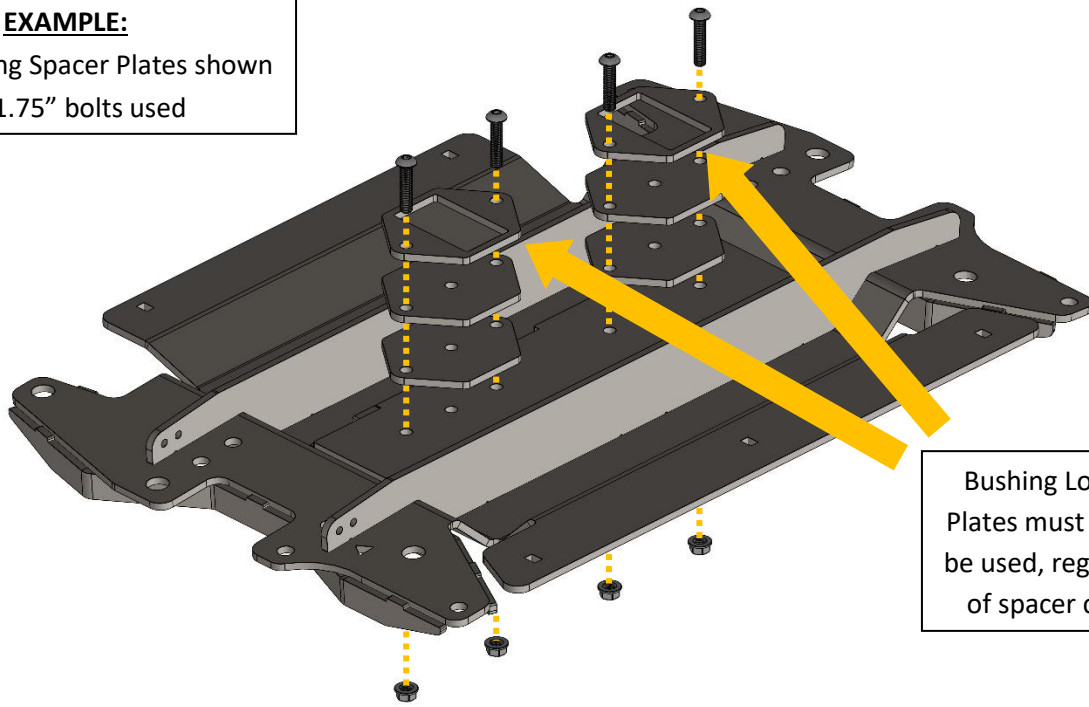
Heavy Weight (8900+lbs)		
Number of Bushing Spacer Plates	Approx. Lift Height	Bolt Length
0	1"	1.25"
1	1.5"	
2	2"	1.75"
3	2.75"	

- b. Assemble the Bushing Spacer Plates and Bushing Locator Plates to the Lift Skid using the provided 3/8-16 button head bolts and nuts as shown. Tighten until snug using 7/16" Allen and 9/16" socket.



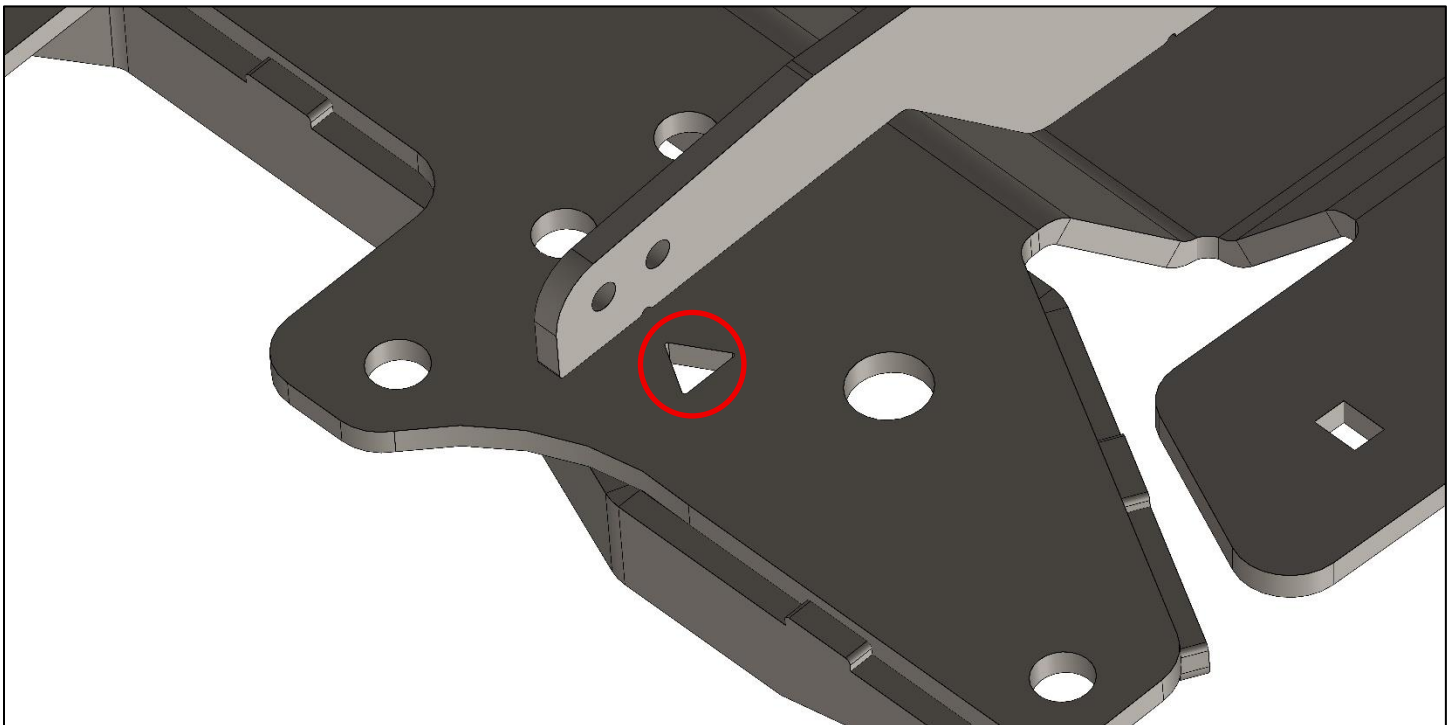
EXAMPLE:

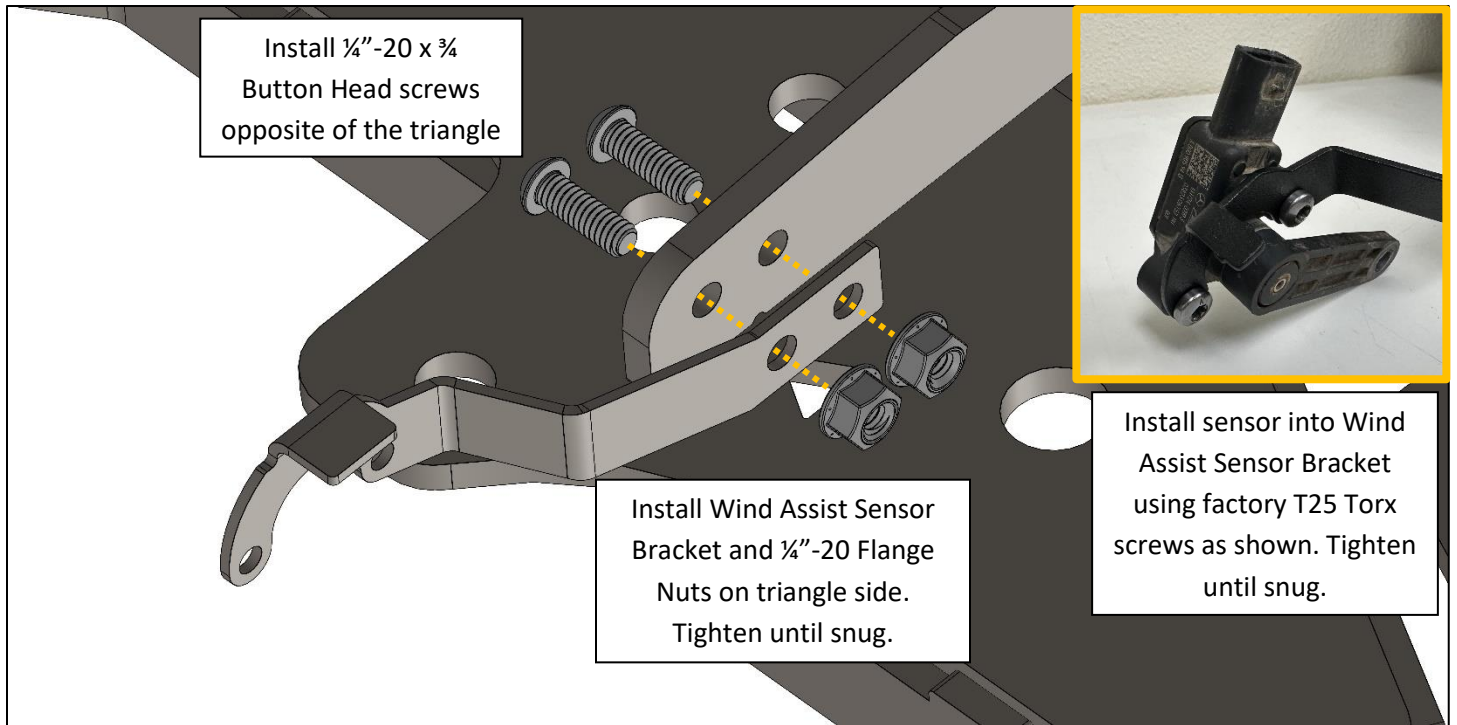
- 2 Bushing Spacer Plates shown
 - 1.75" bolts used



8) For vehicles without Crosswind Assist: Skip to step 9

For vehicles with Crosswind Assist: Locate the triangle shown below. Install the Wind Assist Sensor Bracket **EXACTLY** as shown below. Incorrect installation can lead to interference when trying to complete the install later. Tighten until snug using 5/32" Allen and 7/16" socket. Then install the Crosswind Assist Sensor in the Wind Assist Sensor Bracket using the factory T25 Torx screws.

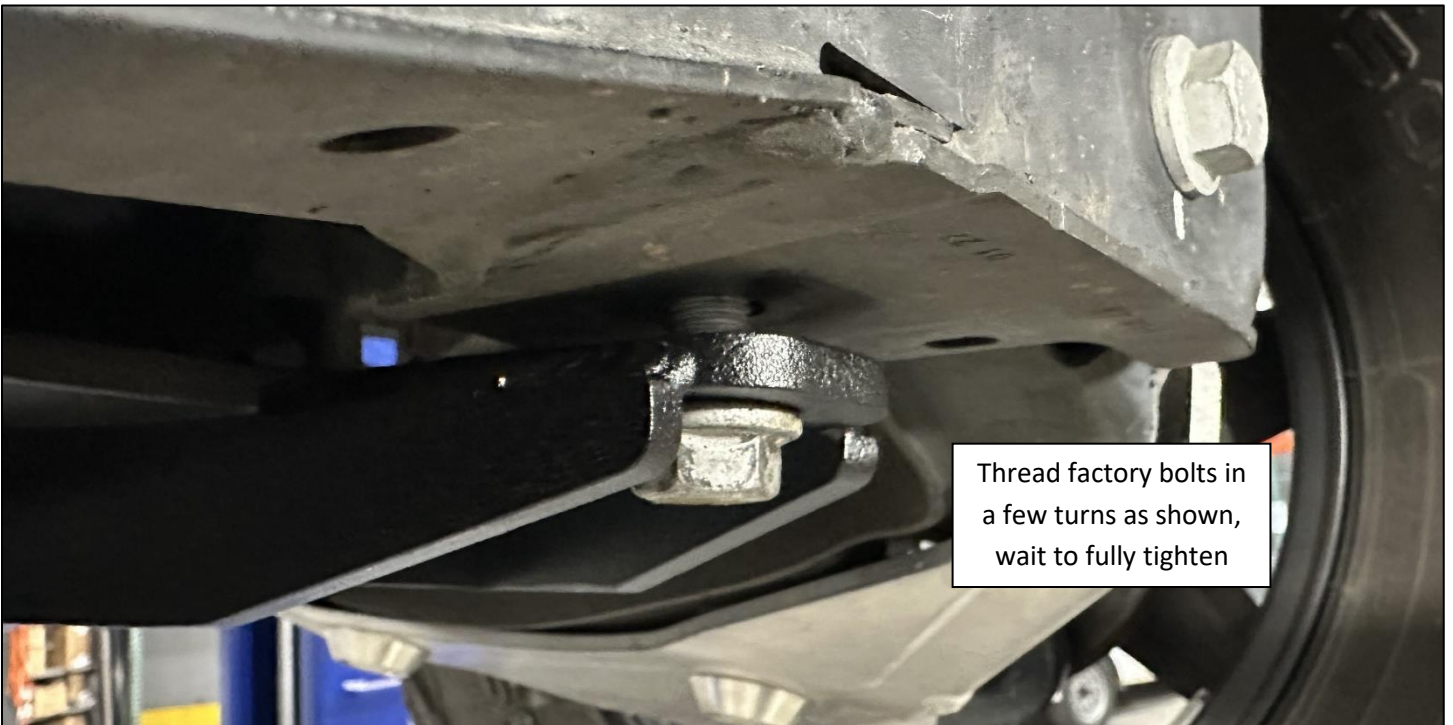




- 9) Place bushings into Bushing Locator Plates, ensuring they fully seat. A small amount of lubricant on the center locating boss of the bushing may be necessary to help fully seat the bushings.

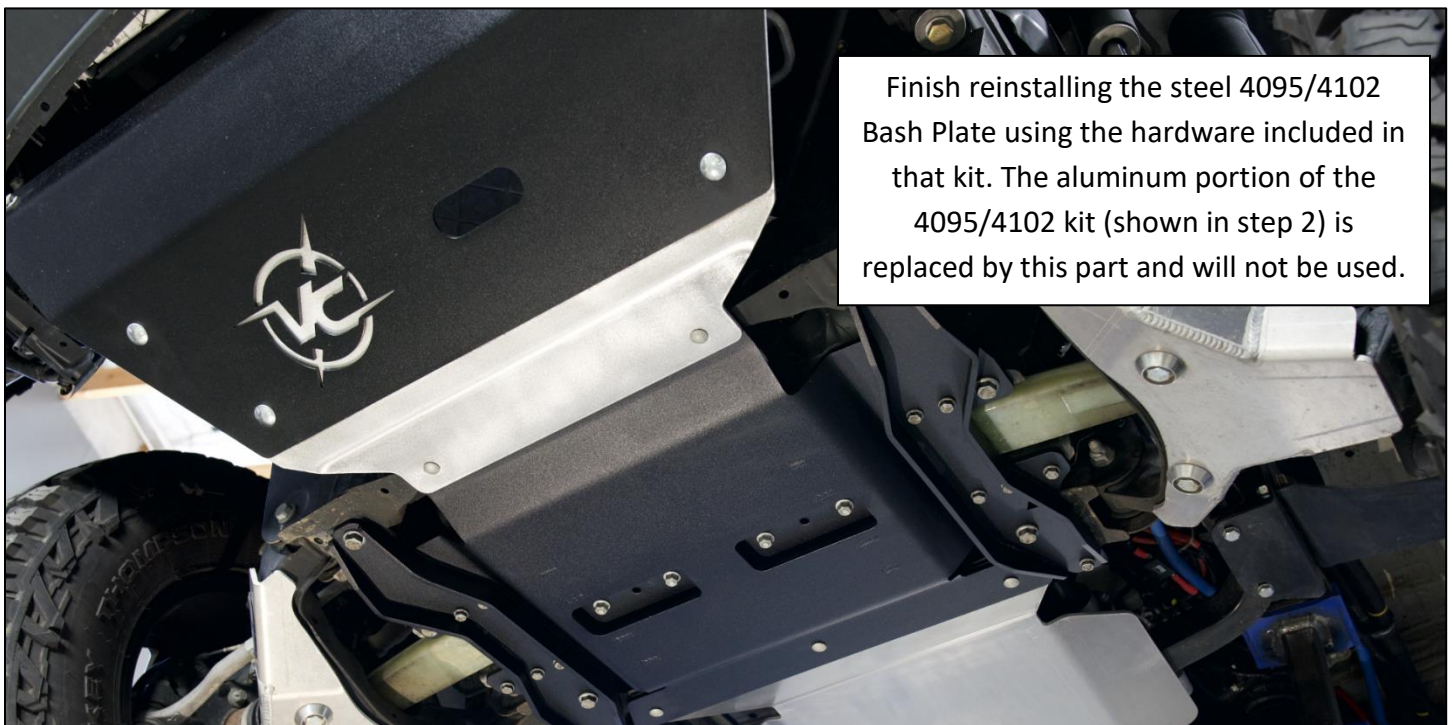
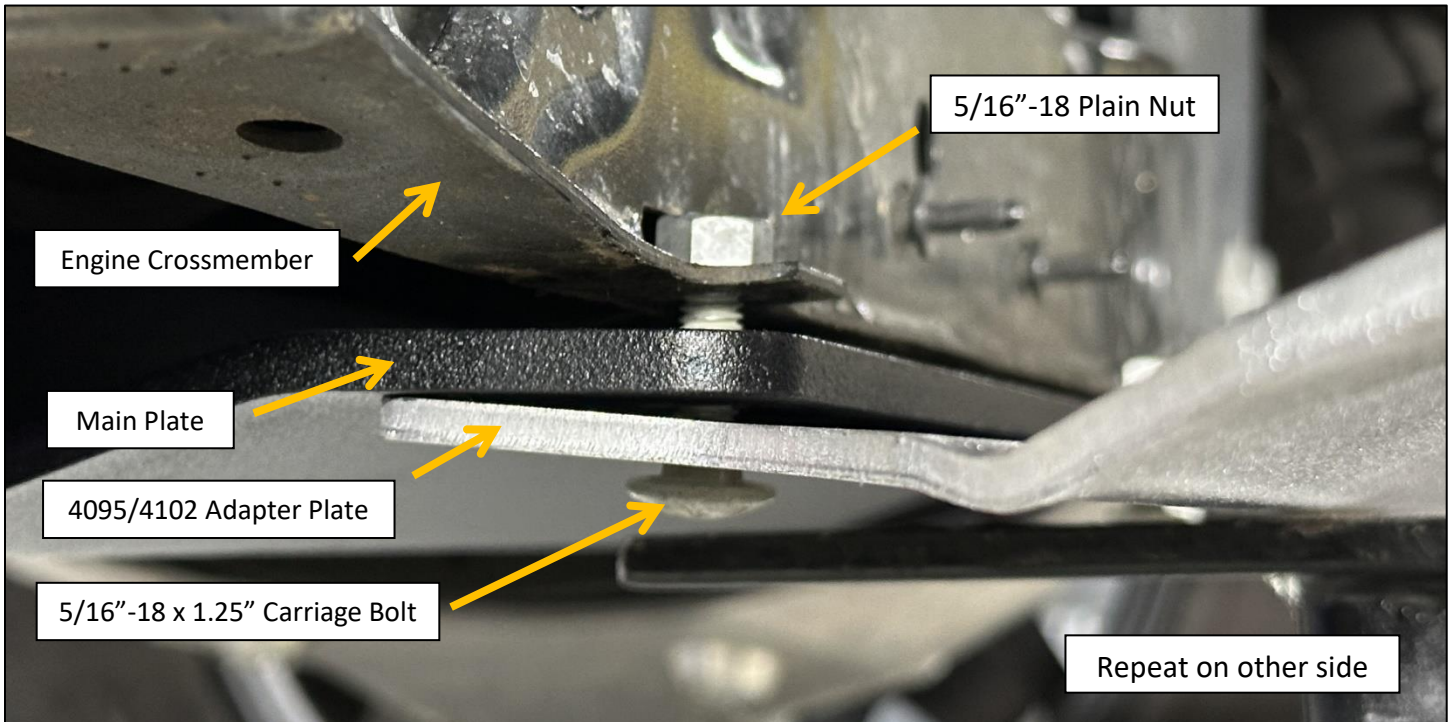


10) Raise the assembled Main Plate into place using a jack. Carefully maneuver the Crosswind Assist sensor into place, if equipped. Start with the 6 larger factory bolts removed from the factory bushing plates earlier, threading them in a few turns. Then proceed to the 12 smaller factory bolts, threading them in a few turns. It may be necessary to lower the jack and reposition to align all mounting holes. Wait to fully tighten. **Reconnect Crosswind Assist Sensor connector and linkage arm, if equipped.**



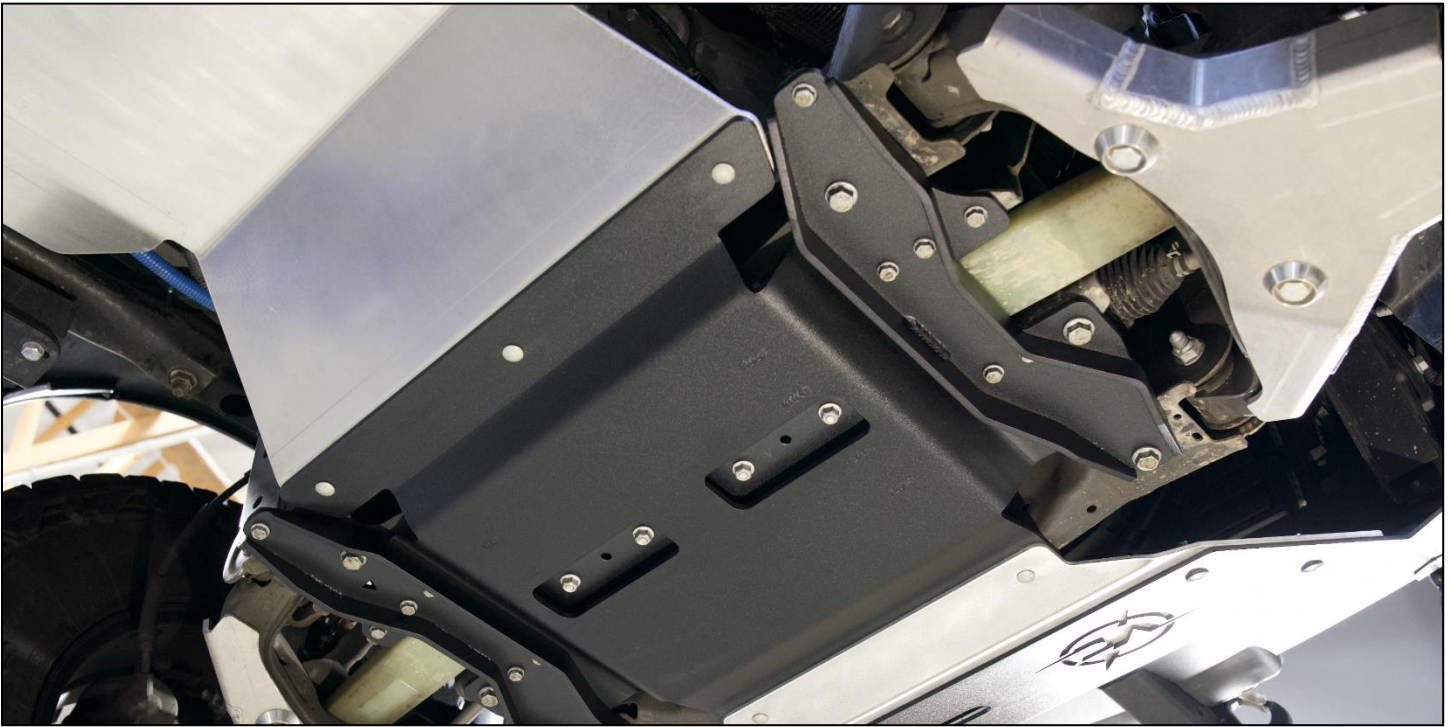
11) To finish installation **without installing 4095 or 4102** Engine Skid Plate, skip to **step 13**.

To install/re-install 4095 or 4102 Engine Skid Plate: Place the 4095/4102 Adapter Plate under the Main Plate as shown, then place (2) 5/16"-18 x 1.25" Carriage Bolts through the 4095/4102 Adapter Plate, the Main Plate, and the engine crossmember. Then thread (2) 5/16"-18 Plain Nuts on the carriage bolts. Wait to fully tighten.



12) To finish installation **without installing 4096** Transmission and Transfer Case Skid Plate, skip to **step 13**.

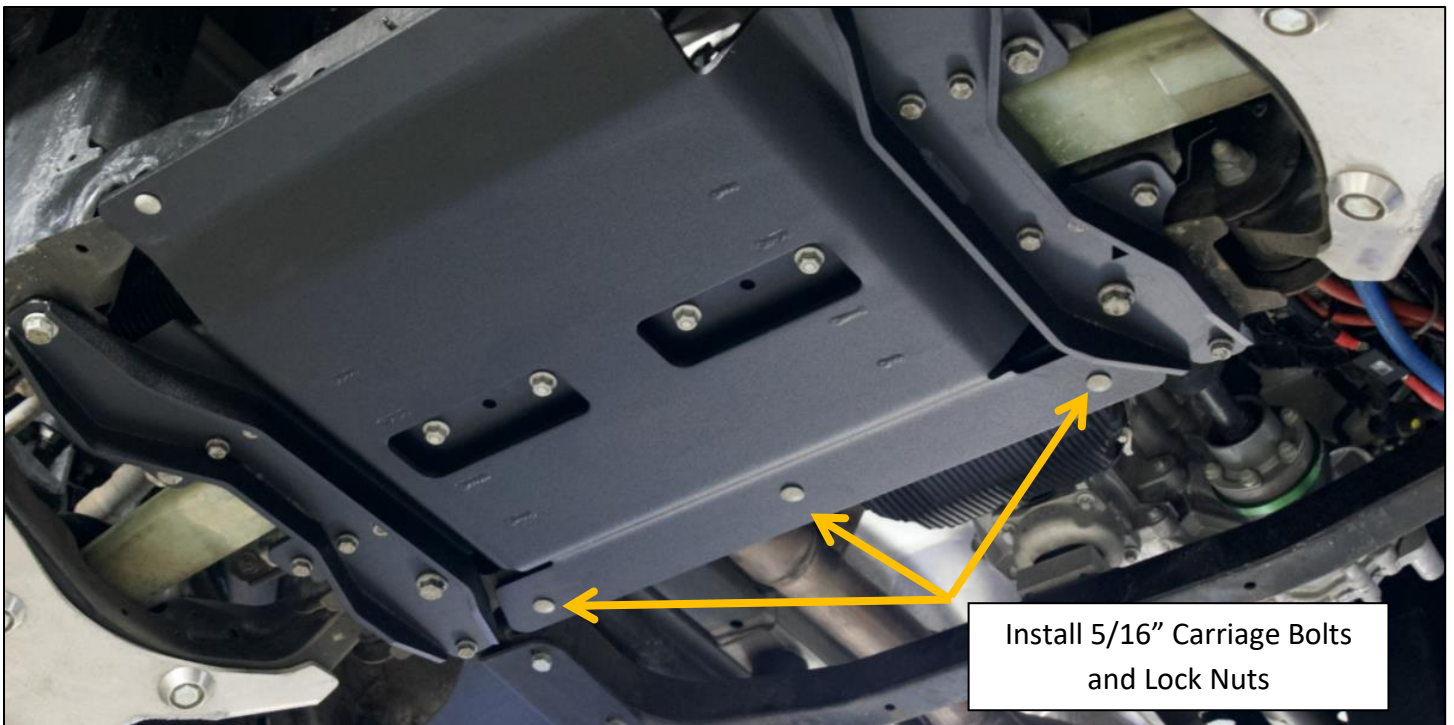
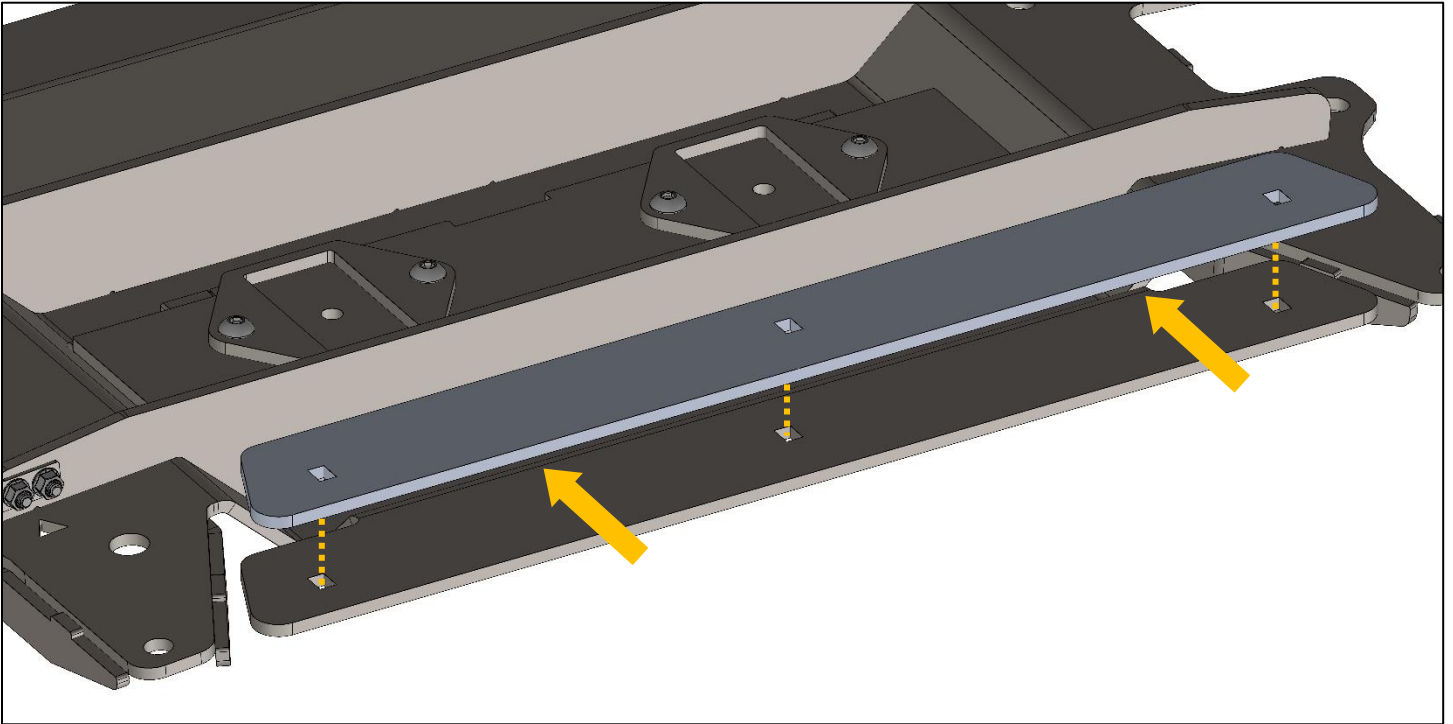
To install/re-install 4096 Transmission and Transfer Case Skid Plate: Place the 4096 Skid Plate between the Main Plate and crossmember as shown, then install (3) 5/16"-18 x 1.25" Carriage Bolts and (3) 5/16"-18 Flange Lock Nuts as shown. Wait to fully tighten. Refer to 4096 instructions to install the remaining 2 bolts into the transmission crossmember.



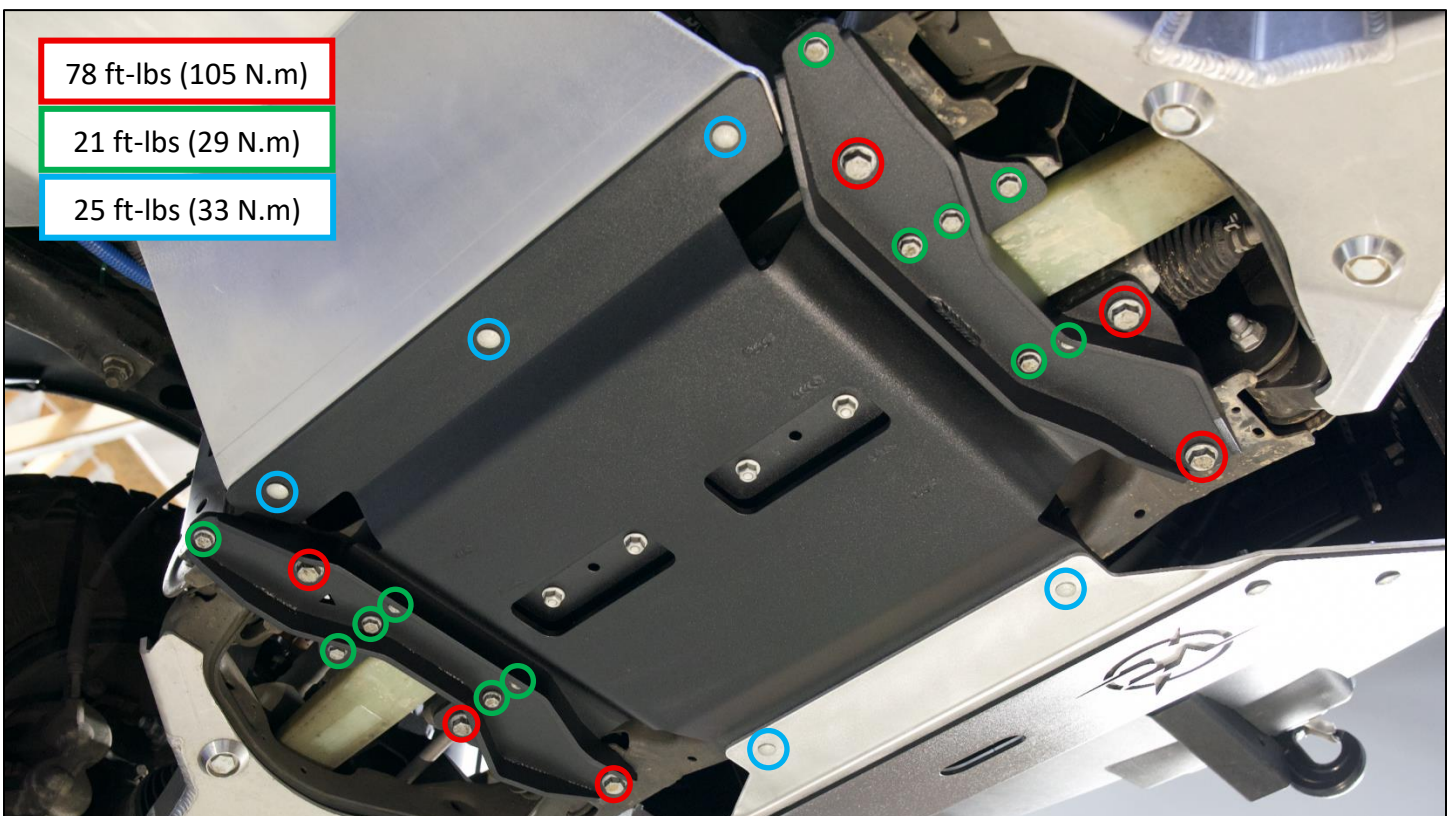
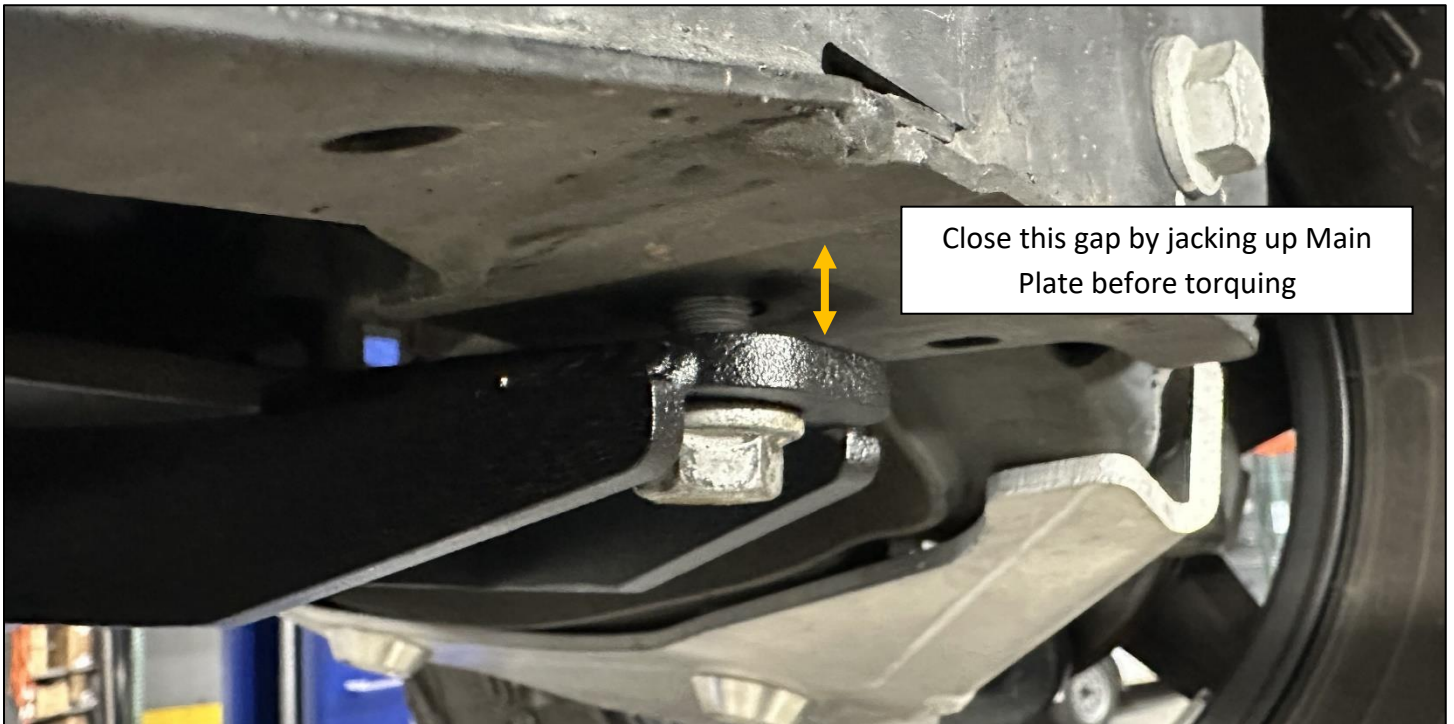
13) To finish installation without 4095, 4096, or 4102 skid plates: Place (2) 5/16"-18 x 1.25" Carriage Bolts through the Main Plate and the engine crossmember, then thread (2) 5/16"-18 Plain Nuts on the carriage bolts. Wait to fully tighten.



- 14) Slide the Rear Spacer Plate into place from the rear, making sure the holes line up with the Main Plate. Then install (3) 5/16"-18 x 1.25" Carriage Bolts and (3) 5/16"-18 Flange Lock Nuts as shown. Wait to fully tighten.



15) Once all bolts are loosely installed, try to close the gap shown below by jacking up the Main Plate. If the gaps on both sides cannot be closed at the same time by jacking in the center of the Main Plate, move the jack and try closing the gap on one side at a time. **Avoid using the bolts to close the gap, this can damage the threads.** Once the gap is closed, torque the **(6) large factory bolts to 78 ft-lbs (105 N.m)** with an 18mm socket and the **(12) small factory bolts to 21 ft-lbs (29 N.m)** using a 13mm socket. Torque the **(5) 5/16"-18 carriage bolts and nuts to 25 ft-lbs (33 N.m)**. Then, if you installed 4095/4102/4096 skid plates in steps 11 & 12, refer to their respective instructions for torque specs and procedure.



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.