



## 4094 – 2019-PRESENT, MERCEDES SPRINTER VS30, OEM / S&B FUEL TANK SKID PLATE

Version 1.1

### General Notes

- For the most up to date and current instructions, please visit our website at [www.vancompass.com](http://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.
- This system is not compatible with STO models due to interference with the grey water tank.
- This skid plate system is offered in two different configurations:
  - 4094-OEM fits the factory fuel tank as well as the 40 gallon S&B tank designed for the Revel chassis. S&B part number: 10-1026
  - 4094-SB fits the 47 gallon S&B tank for 2019-2022 vans. S&B part number: 10-1025
  - 4094-SB fits the 45 gallon S&B tank for 2023+ vans. S&B part number: 10-1031

### Parts List

#### **4094-OEM - 2019-PRESENT, MERCEDES SPRINTER VS30, OEM FUEL TANK SKID PLATE**

- (1) 409401 FUEL TANK SKID PLATE, MAIN PLATE, OEM & 40 GAL S&B
- (2) 409402 FUEL TANK SKID PLATE, DRIVER SIDE, MIDDLE AND REAR MOUNTING BRACKET
- (2) 409403 FUEL TANK SKID PLATE, PASSENGER SIDE, MIDDLE AND REAR MOUNTING BRACKET
- (1) 409404 FUEL TANK SKID PLATE, DRIVER SIDE, FRONT MOUNTING BRACKET
- (1) 409405 FUEL TANK SKID PLATE, PASSENGER SIDE, FRONT MOUNTING BRACKET
- (1) 409408 FUEL TANK SKID PLATE, FRONT S&B MAIN SKID
- (8) HC8-7-10 7/16-14 UNC, GR8 HEX HEAD BOLT, 1.0" LONG
- (8) NFC-7 7/16-14 UNC FLANGE NUT
- (8) WF8-7 7/16" GR8 FLAT WASHER

#### **ADDITIONAL ITEMS FOR 4094-SB:**

#### **4094-SB - 2019-PRESENT, MERCEDES SPRINTER VS30, S&B FUEL TANK SKID PLATE**

- (1) 409406 FUEL TANK SKID PLATE, REAR S&B MAIN SKID
- (1) 409407 FUEL TANK SKID PLATE, REAR OUTER S&B HANGER

- (1) 409408 FUEL TANK SKID PLATE, REAR INNER S&B HANGER
- (4) HC8-7-10 7/16-14 UNC, GR8 HEX HEAD BOLT, 1.0" LONG
- (4) NFC-7 7/16-14 UNC FLANGE NUT
- (4) WF8-7 7/16" GR8 FLAT WASHER

### Tools Needed

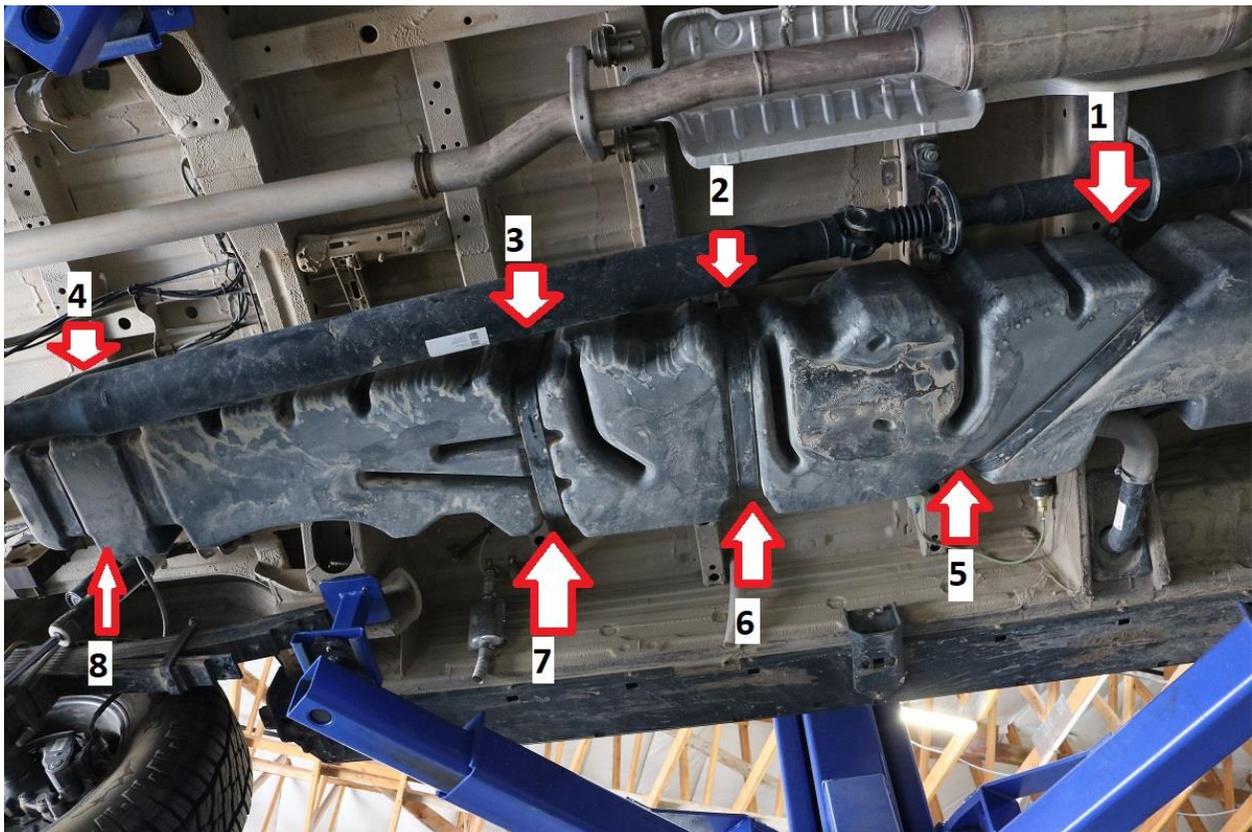
- Quality Jack
  - Optional – Automobile lift and screw jack
- Simple hand tools:
  - Torque Wrench
  - Basic wrench and socket set:
    - Metric sizes: Inverted Torx E14 or 11mm 12pt socket
    - SAE sizes: 5/8"

### Approximate Installation Time

- Professional shop with automotive lift: 30 min – 1 hour
- Driveway install with floor jack: 1-2 hours

### Installation

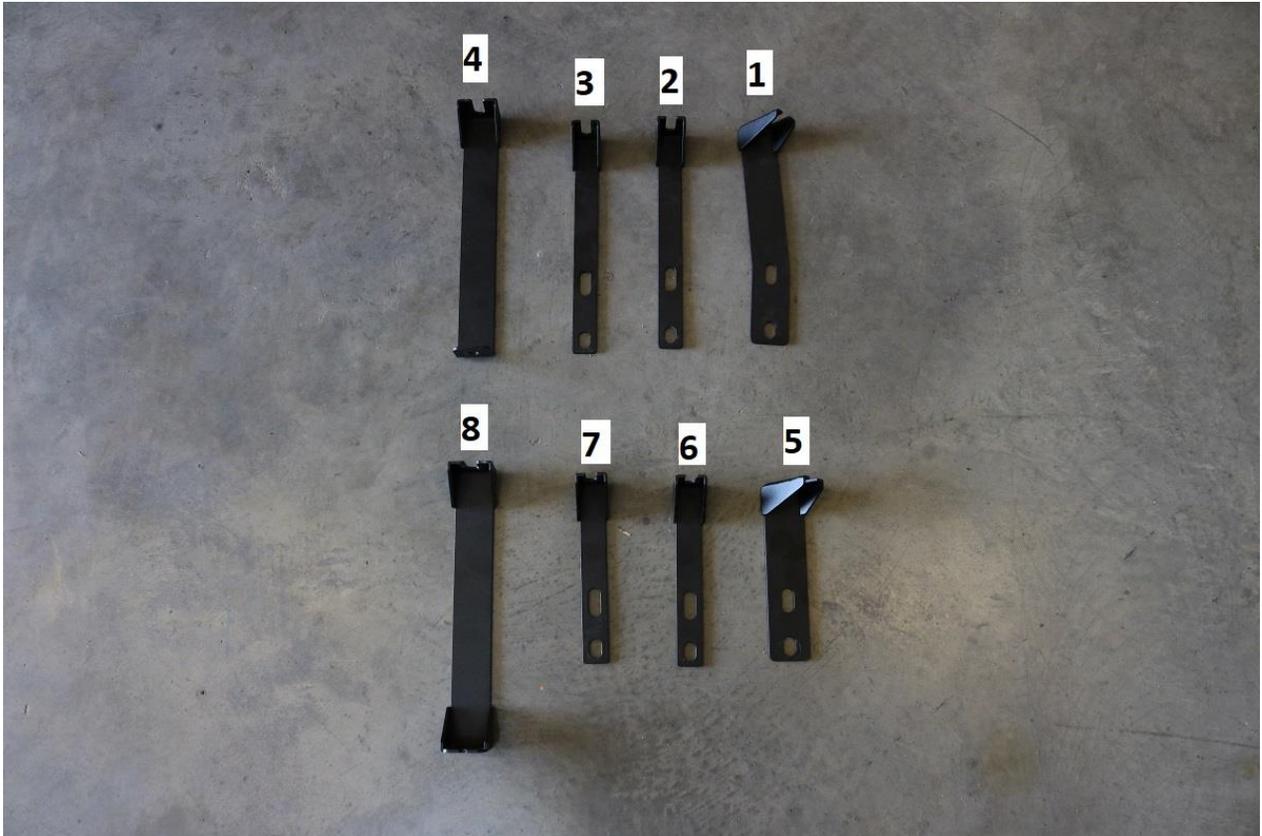
- 1) Note; this skid plate system can be installed with the vehicle on the ground. It does not need to be raised up for installation.
  - a. Instructions will document installation on a 47 gallon S&B tank.
  - b. Installation on an OEM or 40 Gallon S&B skidplate will be the same with the exception of the two additional skid plate hangers.
- 2) The main fuel tank skid plate mounts using the 6 factory bolts which secure the fuel tank straps to the chassis.



- 3) Begin installation by installing the fuel tank skid mounting brackets. Match the number of the brackets to the location numbers in the images above. For reference:
- The short straight brackets go in locations 6 & 7 (Middle and rear, outside edge of tank)
  - The long straight brackets go in locations 2 & 3 (Middle and rear, inside edge of tank)
  - The short angled bracket goes in location 5 (Front, outside edge of tank)
  - The long angled bracket goes in location 1 (Front, inside edge of tank)

*For S&B 45 & 47 Gallon tanks only:*

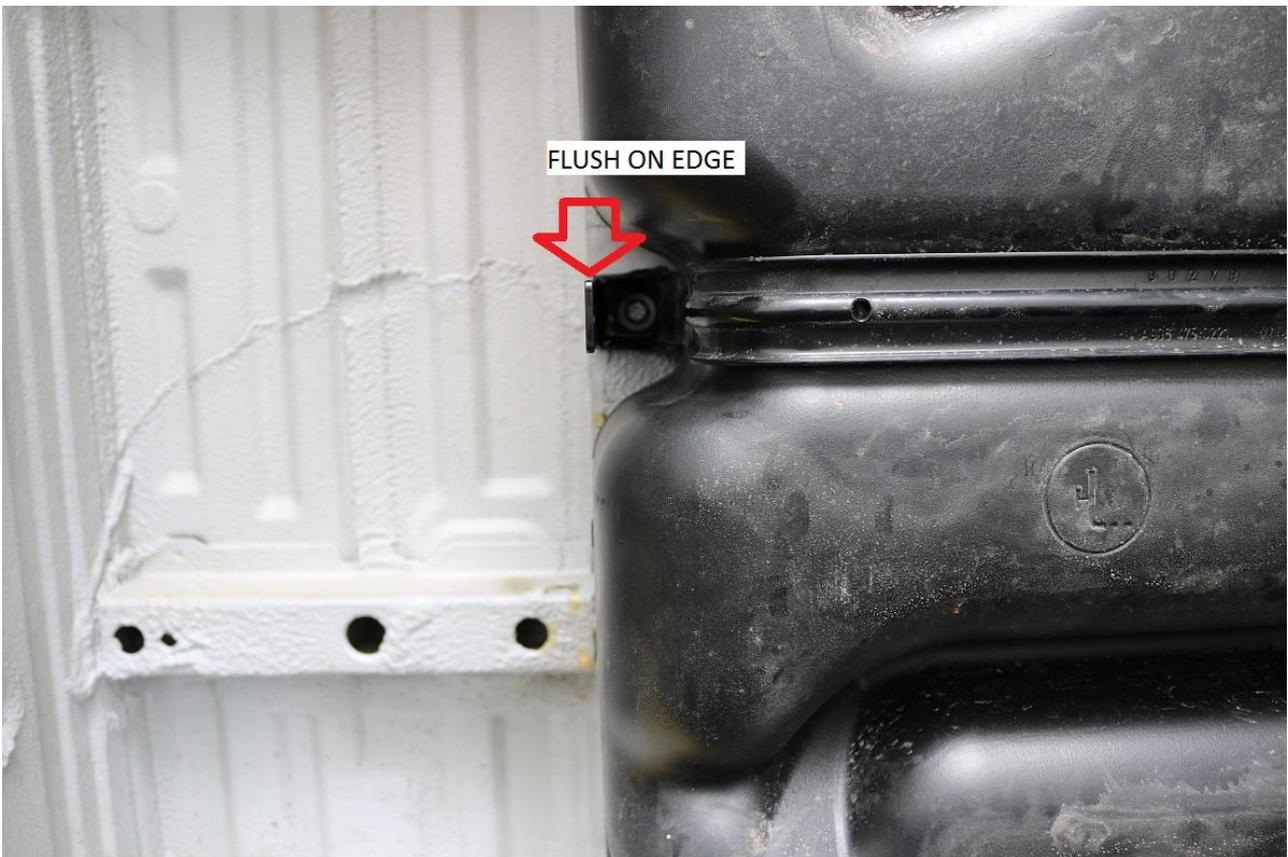
- The long straight bracket with 3 gussets welded on goes in location 8 (Rear outside edge of tank)
- The long straight bracket with 2 gussets welded on goes in location 4 (Rear inside edge of tank)



- 4) Install the brackets by loosening the mounting bolts in their corresponding locations. Loosen the bolts with an Inverted Torx E14 socket. Note; and 11mm 12 point socket works as well. Loosen the bolt enough to slide the brackets under the bolt head. If needed, push up on the factory fuel tank straps to fit the bracket between the straps and the bolt head.

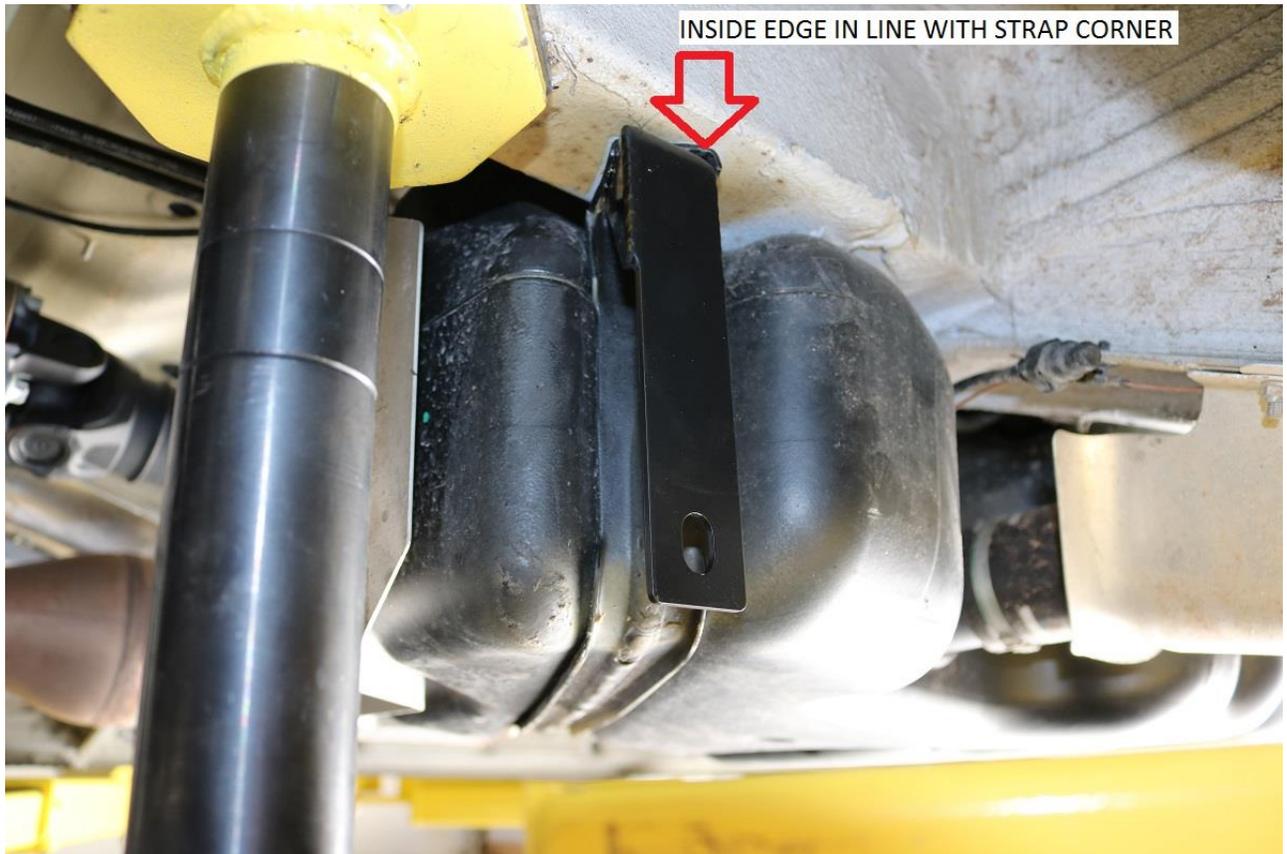


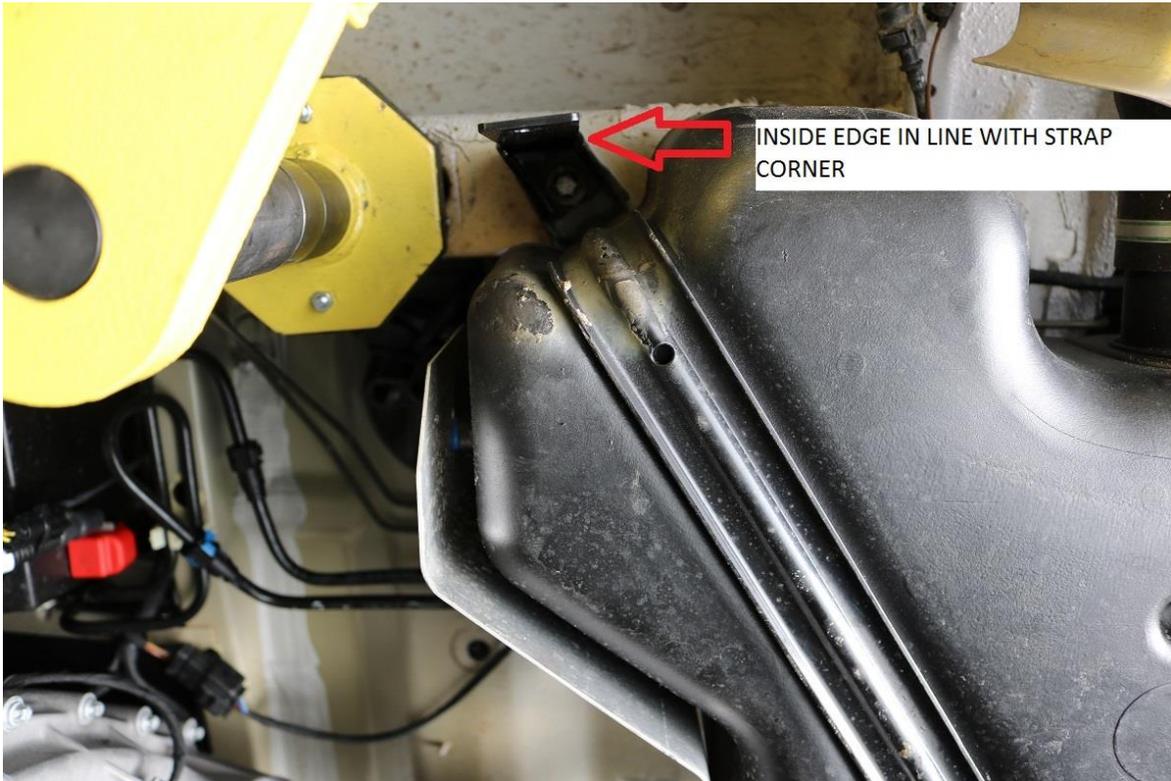
- 5) Slide the brackets in place.
- a. For the middle and rear brackets, line the brackets up so the outer edge is flush with the outer edge of the fuel tank strap. See image below for reference.





6) For the front angled brackets, line the inside edge up with the corner of the factory fuel tank straps.

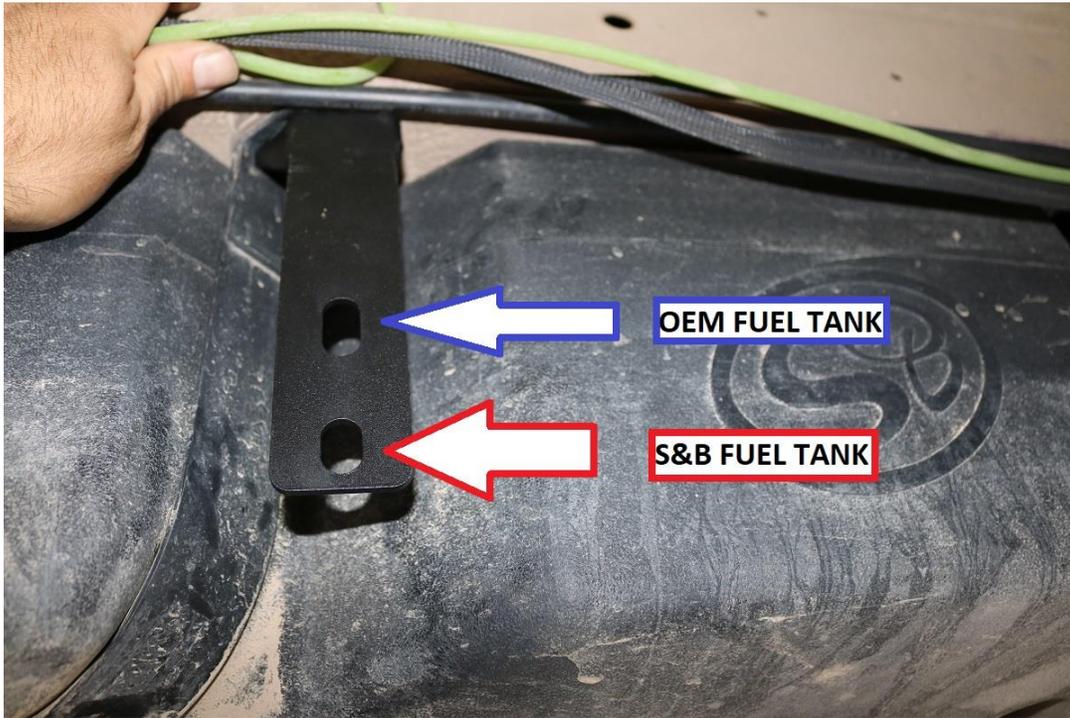




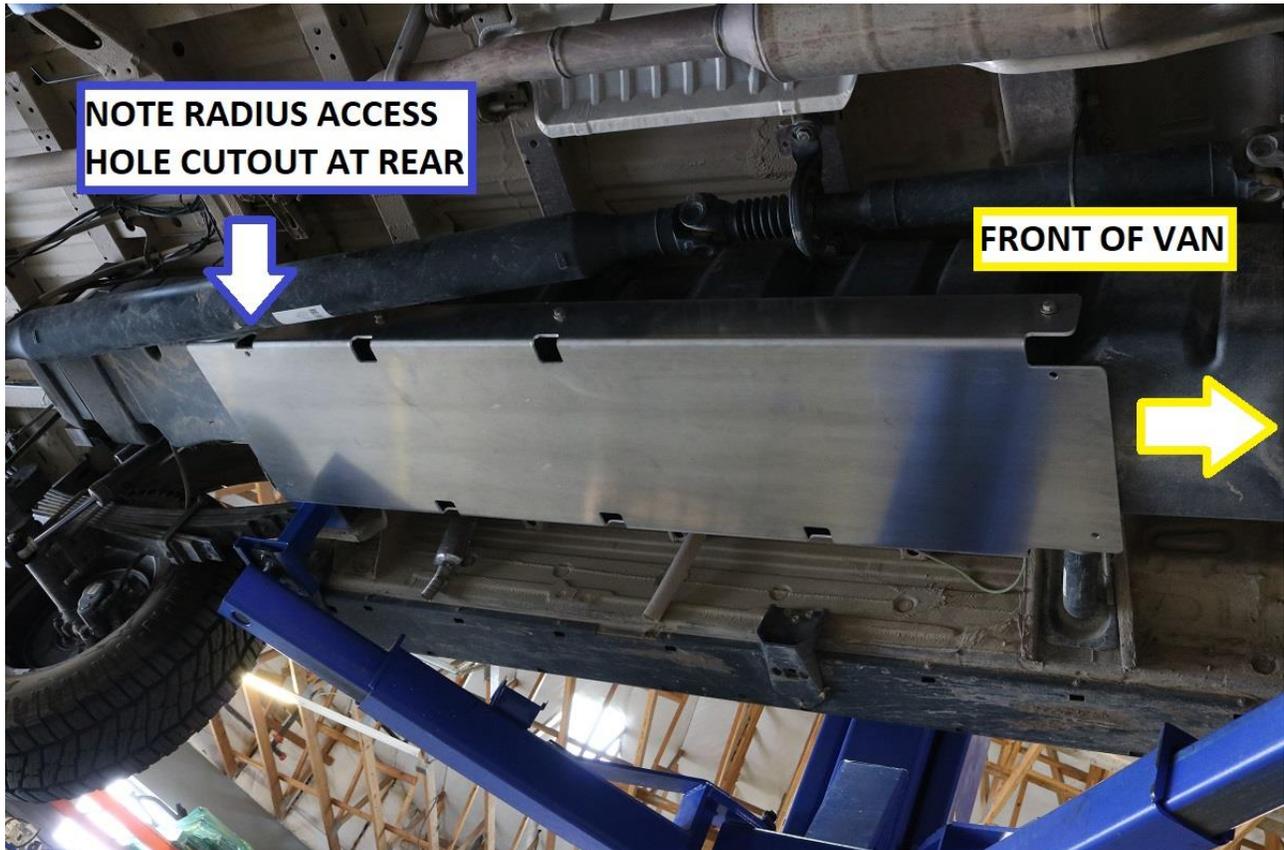
- 7) Make sure all bracket are parallel with the fuel tank sides, and torque all the OEM hardware to 40 ft-lbs (54 N.m).
- 8) Lift the main fuel tank skid plate into position. Use a floor jack or screw jacks to lift into place.
  - a. Note – All the brackets should sit inside of the skid plate.



- 9) Carefully lift the fuel tank skid plate into place and line up the slotted holes in the fuel tank skid brackets with the fuel tank skid plate.
- a. Note, there are two sets of slotted holes in the fuel tank hanger brackets. The upper hole is for an OEM fuel tank. The lower hole is for the deeper S&B tank. See image below for reference.



- 10) Install the 7/16-14 x 1.0" long hex head bolts included with the kit to attach the skid plate to the brackets. Use a washer under the bolt head and secure the brackets to the skid plate with the flange nuts provided. Skid plate should be installed as shown below.



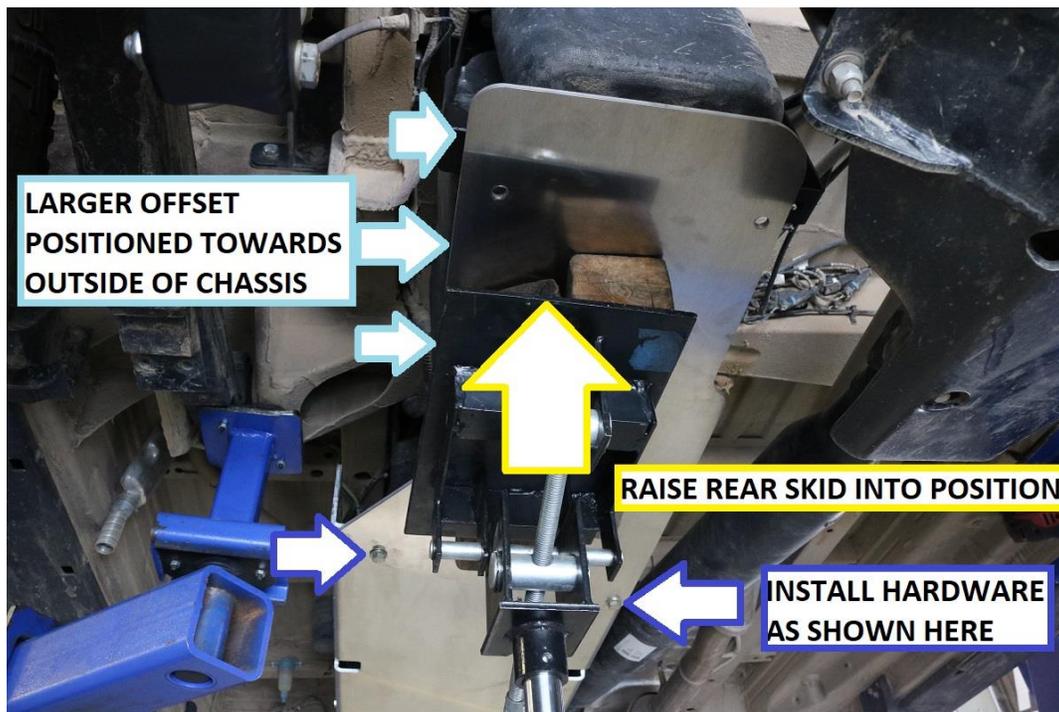
- 11) If this kit is being installed on a 2019-2022 chassis with the OEM fuel tank, then the installation is complete. Ensure the main skidplate is pushed up against the fuel tank itself prior to final tightening.
  - a. Tighten all hardware to 35 ft-lbs (47 N.m)
- 12) For 2023+ models with the OEM fuel tank or for 2019-2022 models with the S&B tank, continue installation via fitment of 409408 front plate.
  - a. Secure to the main skid plate via 7/16-14 x 1.0" long hex head bolts. Again, use a washer under the bolt head and secure with a flange nut on the top side.



- 13) Installation for an OEM fuel tank or the S&B 40 gallon (part number: 10-1026) is now complete.
  - a. Ensure the skidplate is pushed up against the fuel tank itself prior to final tightening.
  - b. Tighten all hardware to 35 ft-lbs (47 N.m)

**4094-SB kit - continued installation – 45 Gallon & 47 Gallon Tanks:**

- 14) Raise 409406 Rear S&B skidplate into position as shown below. Start the forward bolts which connect it to the main fuel tank skid. Again, use a washer under the bolt head and start a flange nut on the top side.
  - a. Again, leave all hardware loose.



15) With the front bolts of the rear skid in position, install the rear bolts which attach to the skid to the rear hangers. Again, use a washer under the bolt head and start a flange nut on the top side.



- 16) All 7/16-14 x 1.0" long hex bolts should be loosely installed at this time. Use a transmission jack or floor jack to push the skidplate up against the bottom of the fuel tank for maximum ground clearance.
- Once supported as shown below, tighten all hardware with a 5/8" socket or wrench.
  - Note, a standard 5/8" box wrench will likely be needed for the rear inner mounting hardware near the driveshaft.
  - Torque to 35 ft-lbs (47 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 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.