



3028 – 2013-PRESENT, FORD TRANSIT, REAR 2.0” MINI SPRING PACK

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 leaf pack that can be installed with basic hand tools.
- For 2wd vehicles not getting a full 2.0” lift kit installed, the two smallest leaves from the back must be removed to prevent over extension of critical suspension components. For the full 5 leaf pack variant to be installed we do recommend installing a 2.0” bump stop extension (Van Compass part number: 3011)
- 4x4 Quigley / Quadvans with built in 2” lifts from their 4wd conversions can install the full 5 leaf pack and remove the factory 2” lift block.
- This leaf pack can also be installed with varying numbers of leaves from left to right to cure a side to side lean often associated from fully built out interiors on camper vans.
- This suspension kit can be completely removed, allowing the vehicle to be returned back to stock configuration if desired.

Parts List

3028 – 2013-PRESENT, FORD TRANSIT, REAR 5 LEAF MINI SPRING PACK

- | | |
|--------------------|---|
| • (2) 302801 | REAR 5 LEAF MINI SPRING PACK |
| • (4) UB-3125-0700 | 3.125” DIAMETER X 7.00” LONG, M14X1.50” THD, U-BOLT |
| • (8) NNM14-1.50 | M14-1.50 NYLOCK NUT |
| • (8) WFM14 | M14 FLAT WASHER, CLEAR ZINC |

Tools Needed

- Quality jacks and 2 jack stands.
 - Optional – Automobile lift and two screw jacks
- Simple hand tools:
 - Torque Wrench
 - Basic wrench and socket set:
 - Metric sizes: 13mm, 15mm, 17-18mm, 20-22mm
 - SAE sizes: 9/16”, 5/8”, 11/16”

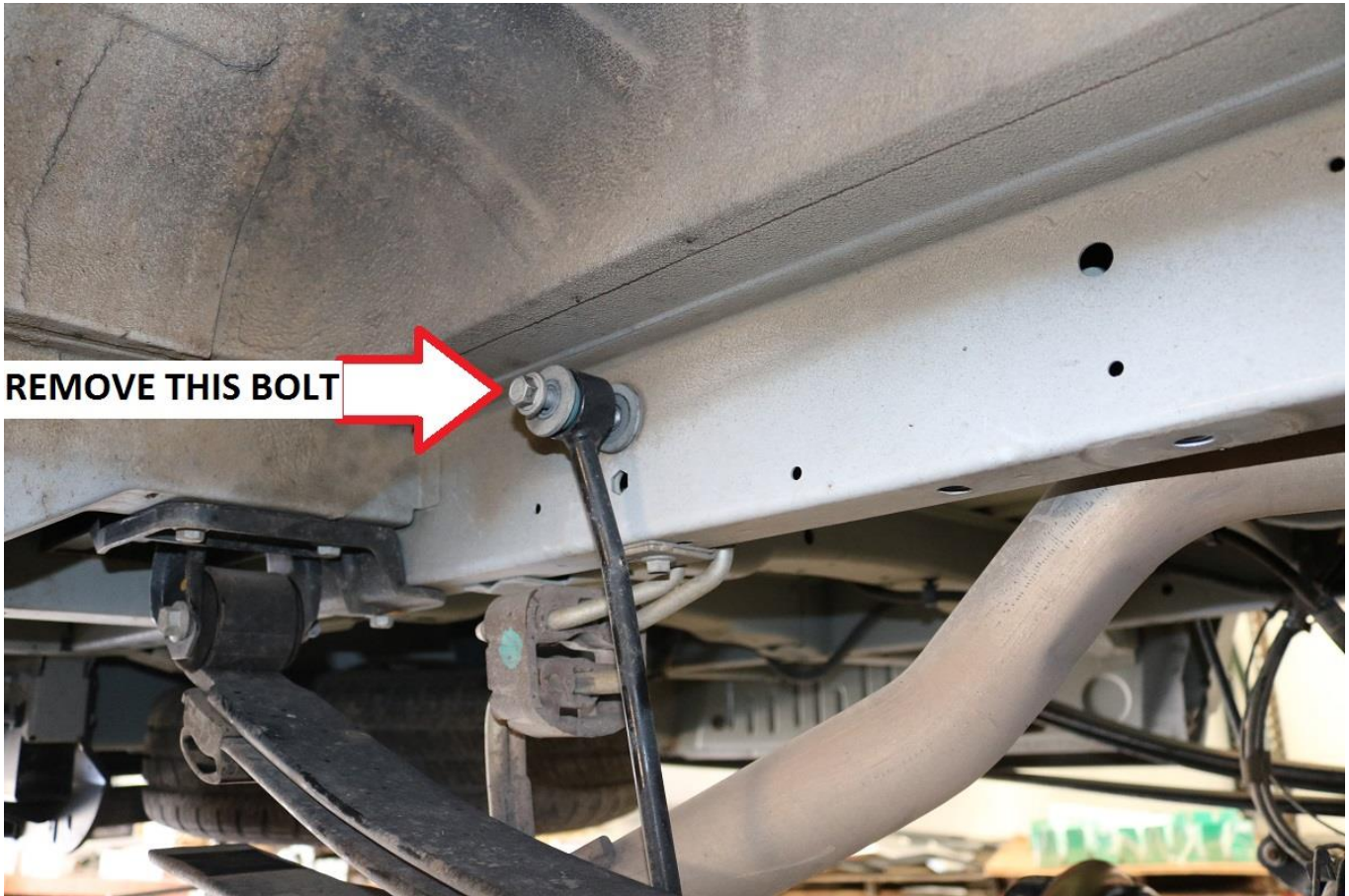
Approximate Installation Time

- Professional shop with automotive lift: 1-2 hours

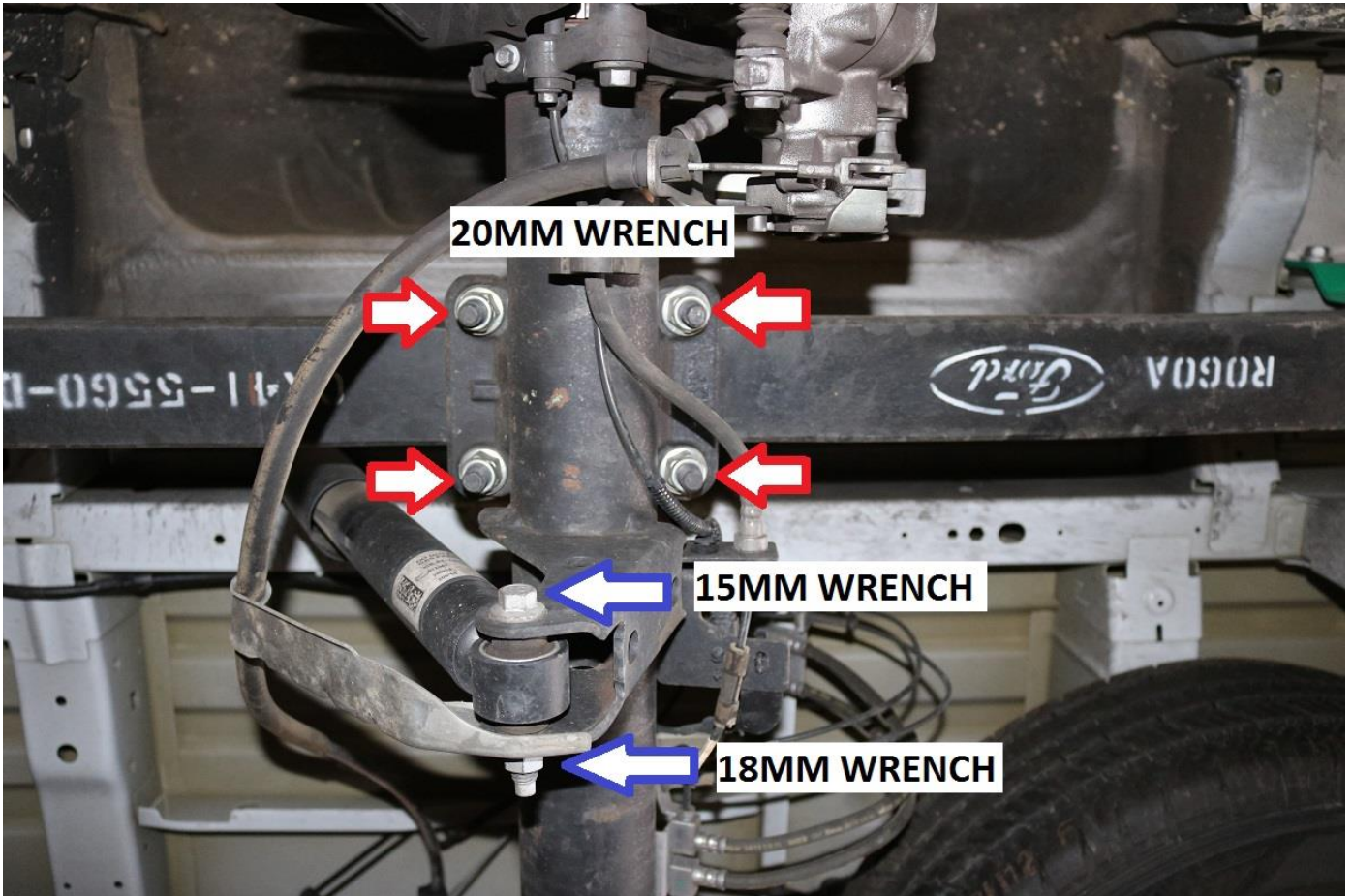
- Driveway install with jack and jack stands: 2-3 hours

Installation

- 1) Before placing the vehicle on jack stands or on an automobile lift, we recommend taking ride height measurements on both sides of the vehicle to determine a baseline as well as to decide if a side to side lean needs to be addressed.
 - a. Note, most vans will sit lower on the driver side (left hand) due to the fuel tank placement on this side of the vehicle.
- 2) Begin by safely supporting the vehicle so that the rear suspension can hang free. This can be done with an automobile lift or a quality jack and a pair of jack stands.
- 3) With the rear suspension hanging free, remove the rear wheels / tires.
- 4) If the van is equipped with a rear sway bar, use a 15mm socket / wrench to remove the bolt which connects the top of the sway bar end link to the chassis. See image below for reference.



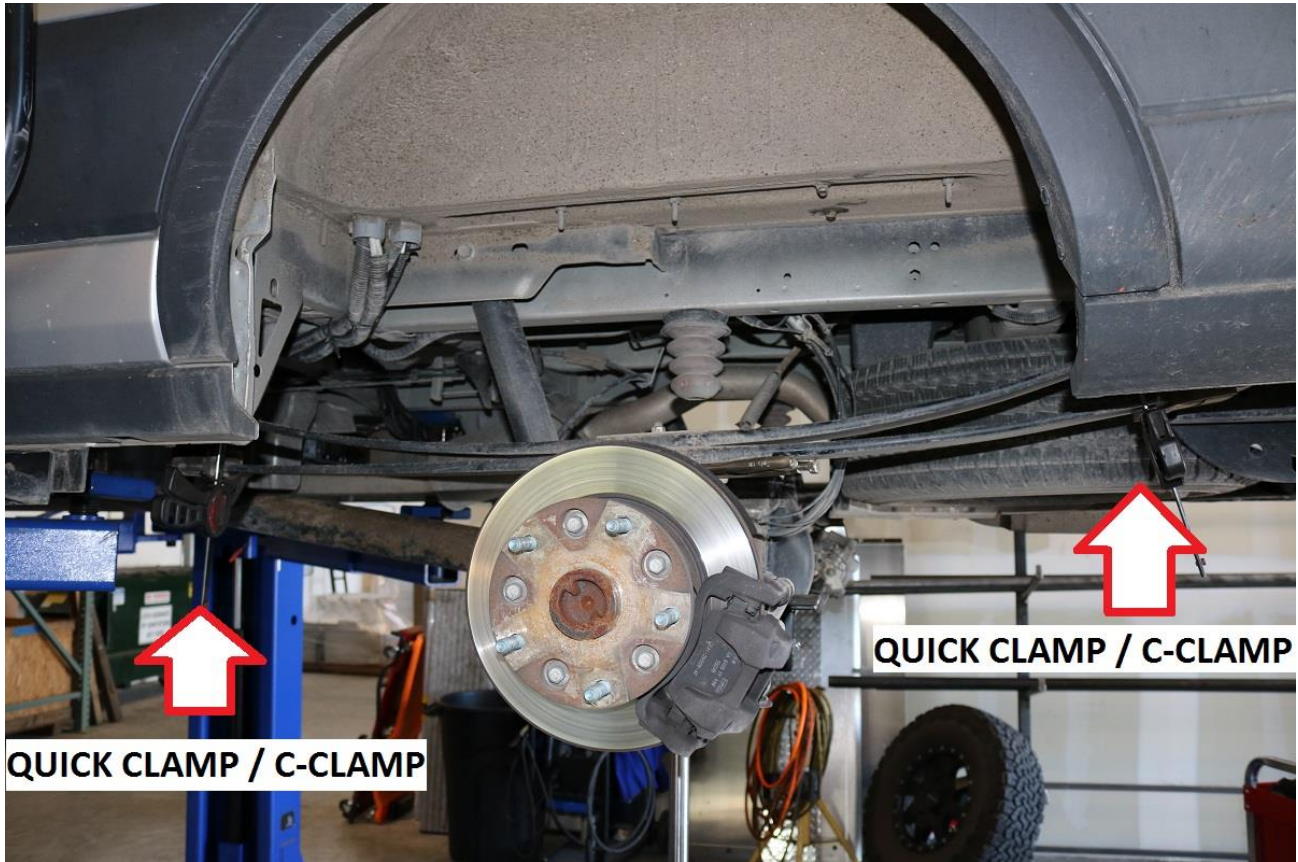
- 5) At this point, work on one side of the vehicle at a time. Start on the driver side (left hand).
- 6) Disconnect the lower shock bolt. Use a 15mm socket / wrench for the head of the bolt. Use an 18mm socket / wrench for the nut. See photo below for clarity. Pull the lower part of the shock forward out of the mount so it is out of the way.
- 7) Remove the U-bolt nuts. Use a 20mm socket / wrench for removal.



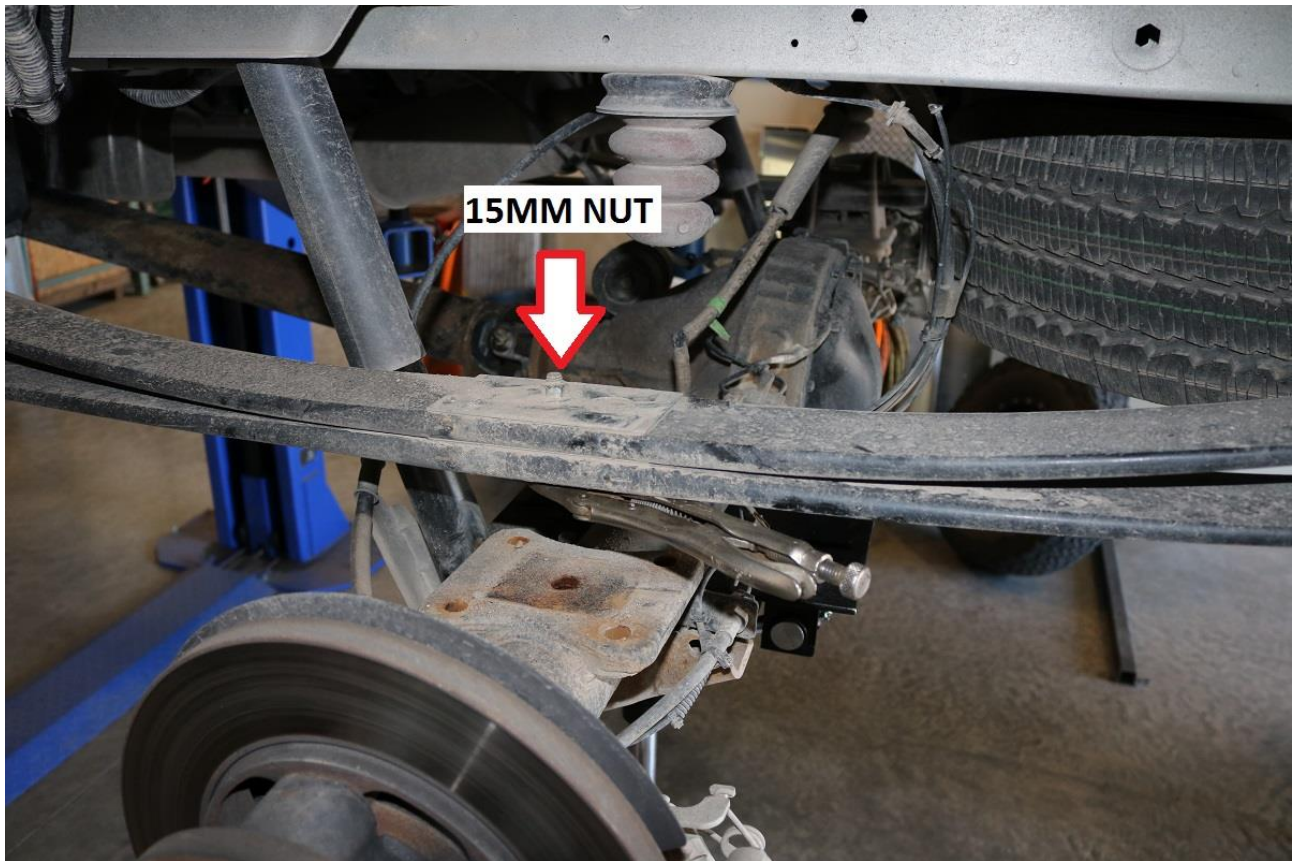
8) Remove the U-bolts and slowly lower the axle approximately 3.0" – 4.0" (75-100MM)



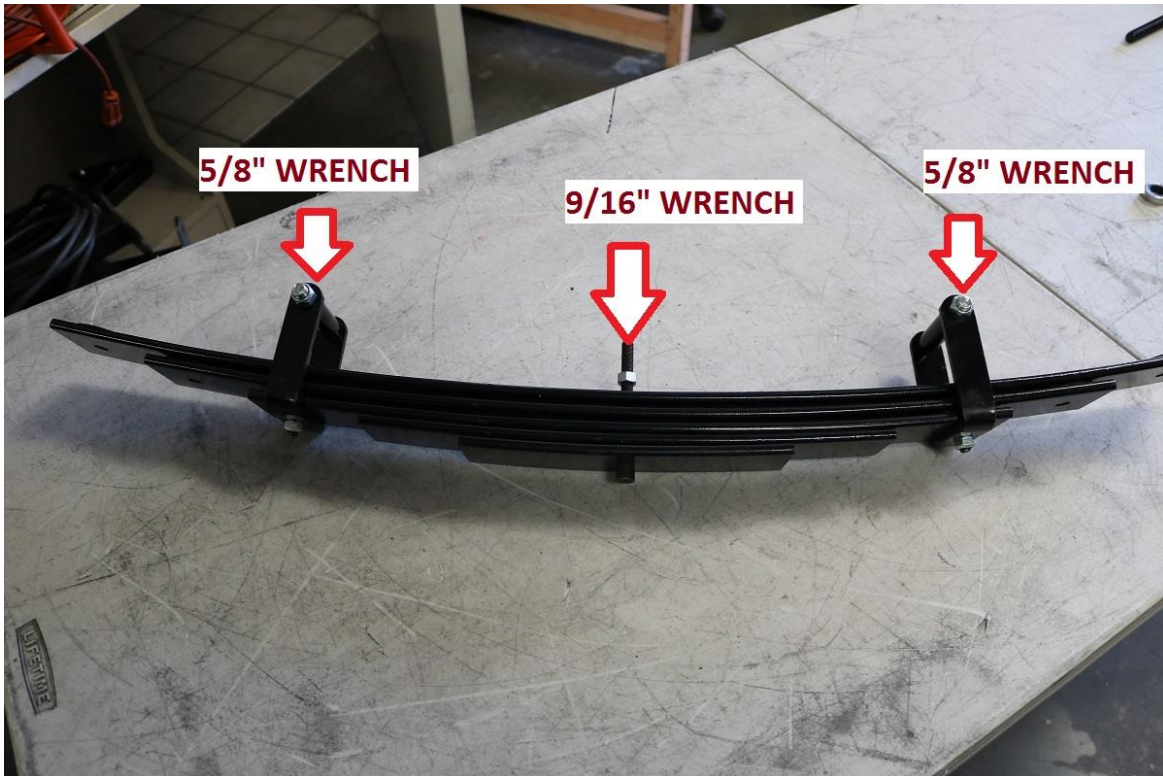
9) Use a pair of quick clamps or C-clamps to secure the main and lower spring together. See image below for reference.



10) Remove the leaf spring center pin. Use a 15mm socket / wrench to remove the nut securing the center pin. Note; in some instances the center pin may need to be held with a pair of vise-grips as shown below.



11) Next, disassemble the add-a-leaf pack by using a 9/16" socket / wrench to remove the leaf spring center pin nut and a 5/8" socket / wrench for the spring clamps. Retain all hardware.



12) **CRITICAL:** A maximum of **3 leafs** can be installed per side on a 2wd van without installing a full rear lift kit that includes bump stop drop brackets.

13) Install the leaf pack back into the vehicle. Align the center pin with the main leaf spring and use some C-clamps to preload the springs into place. Do not use the center pin nut itself to suck the leaf springs into place as the threads can strip in that situation.



- 14) Once the springs are aligned and clamped all the way into position, install the 3/8" center pin nut removed in step 14 and tighten with a 9/16" socket / wrench. Torque to 20 ft-lbs (27 N.m)
- 15) Re-install the 7/16" spring clamp hardware and spacers also removed in step 11. Use a 5/8" socket / wrench and torque to 40 ft-lbs (54 N.m).
- 16) Install the new U-bolts, washers and nuts provided in the kit. Use a 22mm socket / wrench and torque U-bolts nuts to 125 ft-lbs (169 N.m).
- 17) Repeat steps 5 thru 16 on the passenger (right hand) side of the vehicle.
- 18) Re-install the upper bolt for the sway bar end link if previously removed. Use a 15mm socket / wrench and torque to 76 ft-lbs (103 N.m)
- 19) Re-install the shock into the lower mount and re-install the bolt. Torque to 81 ft-lbs (110 N.m)



- 20) Re-install wheels / tires and lower van to ground.
 - a. Lug nut torque for SRW and DRWs are the same; 148 ft-lbs (200 N.m)
- 21) Double check all torque specs 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.