



4116 – 2013-PRESENT, FORD TRANSIT, TUG STEP

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 rear step that can be installed with basic hand tools.
- The step extends over the factory trailer hitch receiver and is only compatible with the OEM Ford rear hitch. Van Compass cannot guarantee compatibility with other hitch mfgs.
- This can be completely removed and returned to original equipment.

Parts List

4116 – 2013-PRESENT, FORD TRANSIT, TUG STEP

- | | |
|--------------------------|--|
| • (1) 411601 | TRANSIT, TUG STEP, MAIN STEP |
| • (1) 411602-LH | TRANSIT, TUG STEP, SIDE PLATE, LEFT HAND |
| • (1) 411602-RH | TRANSIT, TUG STEP, SIDE PLATE, RIGHT HAND |
| • (2) 411603 | TRANSIT, TUG STEP, L BRACKET |
| • (1) 411604 | TRANSIT, TUG STEP, CROSS PLATE |
| • (1) 411605-LH | TRANSIT, TUG STEP, CENTER SUPPORT, LEFT HAND |
| • (1) 411605-RH | TRANSIT, TUG STEP, CENTER SUPPORT, RIGHT HAND |
| • (1) 411606-LH | TRANSIT, TUG STEP, SIDE SUPPORT, LEFT HAND |
| • (1) 411606-RH | TRANSIT, TUG STEP, SIDE SUPPORT, RIGHT HAND |
| • (1) 411607 | TRANSIT, TUG STEP, STAINLESS TRACTION PLATE |
| • (8) CCM12-1.75-40-8.8 | M12-1.75X40MM 8.8 CARRIAGE BOLT CLEAR ZINC |
| • (4) HM12-1.75-110-10.9 | M12-1.75X110MM 10.9 HEX BOLT YELLOW ZINC |
| • (12) NNM12-1.75 | M12-1.75 8.8 NYLOCK NUT CLEAR ZINC |
| • (16) WF-M12 | M12 FLAT WASHER CLEAR ZINC |
| • (4) CCM8-1.25-25-8.8 | M8-1.25X25MM 8.8 CARRIAGE BOLT CLEAR ZINC |
| • (4) NNM8-1.25 | M8-1.25 8.8 NYLOCK NUT CLEAR ZINC |
| • (4) WF-M8 | M8-1.25 FLAT WASHER CLEAR ZINC |
| • (12) NNC-02 | NYLOCK NUT, ¼-20, CLEAR ZINC |
| • (12) BHCS02-10-SS | BUTTON HEAD CAP SCREW, 1/4-20 X 1.0" LONG, STAINLESS STEEL |
| • (12) WF-02 | FLAT WASHER, ¼ SAE, CLEAR ZINC |

Tools Needed

- Simple hand tools:
 - Torque Wrench
 - Basic wrench and socket set:

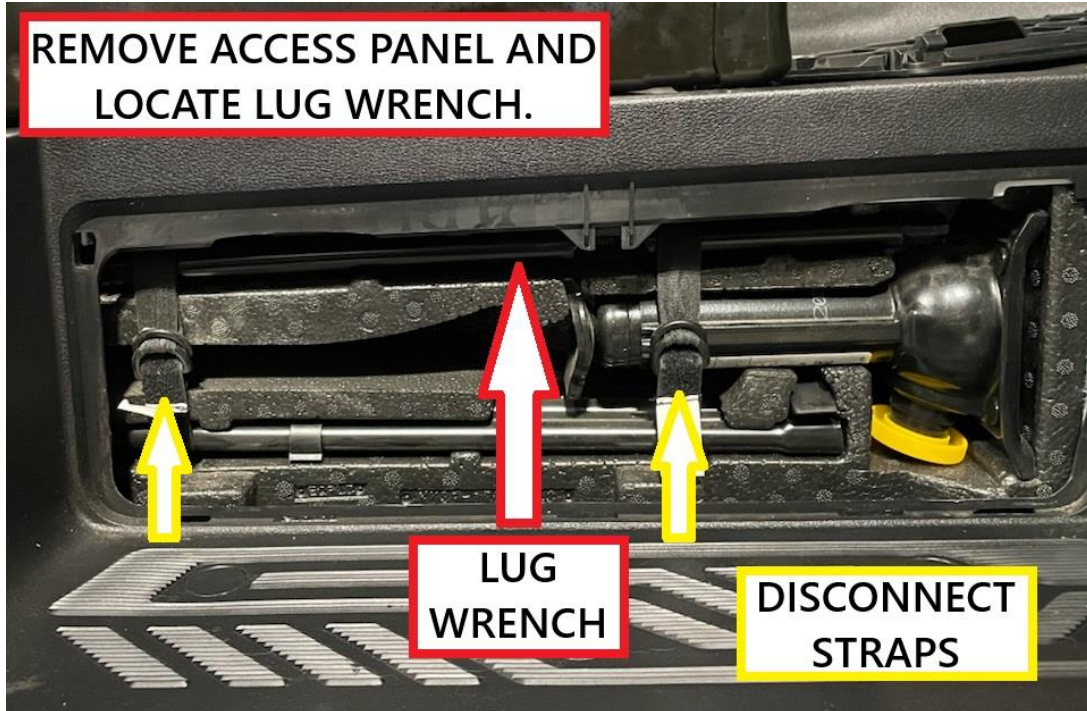
- SAE Sizes: 7/16", 5/32" Allen
- Metric Sizes: 13mm, 15mm, 19mm

Approximate Installation Time

- 1-2 hours

Installation

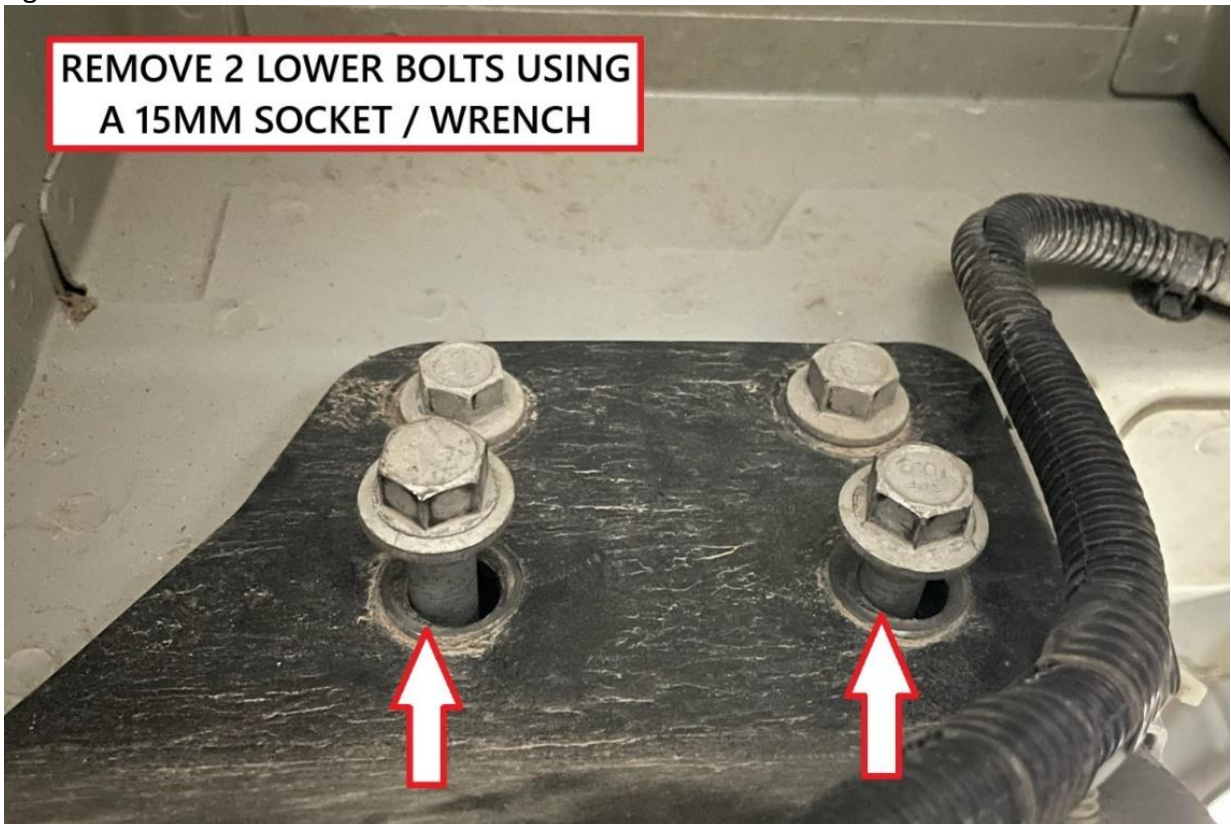
1. Locate the lug wrench located behind the access panel in the side of the door step below the seat.



2. Find the access point for the spare tire. This is usually located in the floor at the back of the van. Insert the lug wrench in the socket and turn counterclockwise to lower the spare tire. Once the spare tire is on the ground, slide it forward for better access to the trailer hitch bolts.



3. Remove the 4 lower horizontal bolts (2 per side) connecting the trailer hitch through the frame rail using a 15mm.



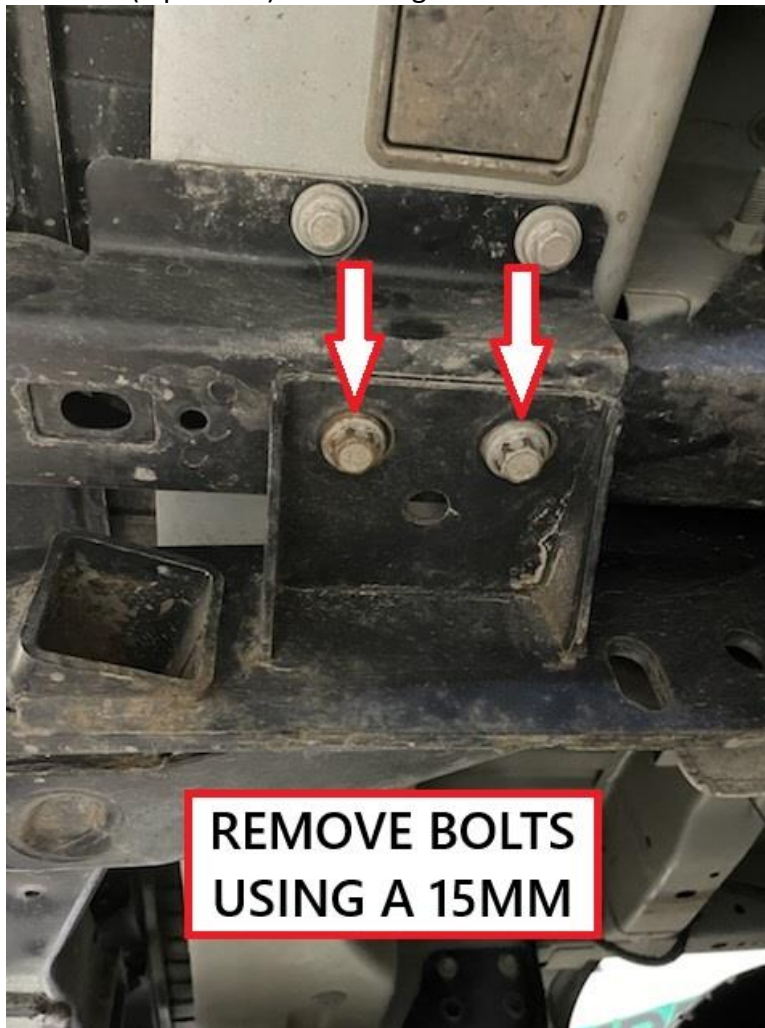
4. Install the supplied M12-1.75 x 110mm bolts through the lower horizontal holes of the trailer hitch using an 19mm socket / wrench. Torque the bolts to 86 ft-lbs (116 N.m).



5. Place the side plates over the protruding threads of the lower trailer hitch bolts. The bent flange goes in toward the center of the vehicle. Use the supplied M12-1.75 nuts and washers to snug the side plates. Do not tighten yet.



6. Remove the 4 vertical bolts (2 per side) connecting the trailer hitch to the frame using a 15mm.



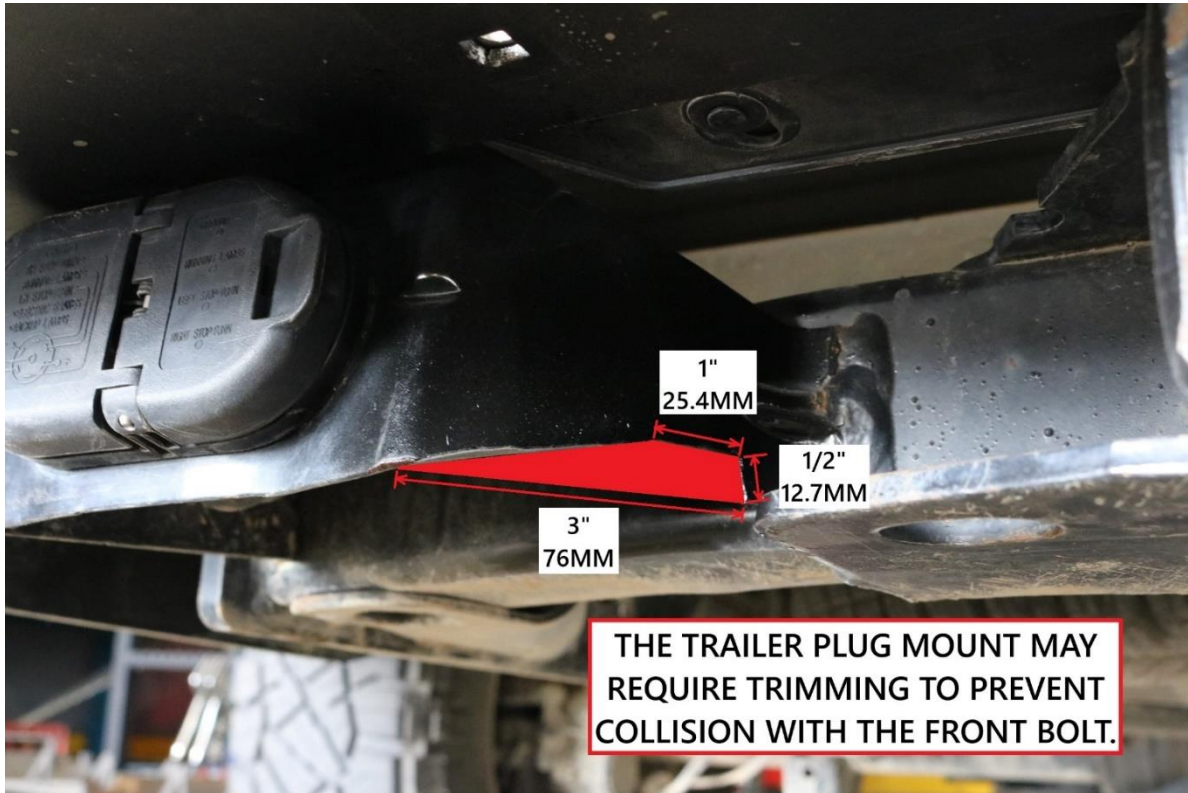
7. Install the supplied L-brackets using the factory bolts. Do not tighten yet.



8. Place the main step and traction plate over the side plate mounting holes.



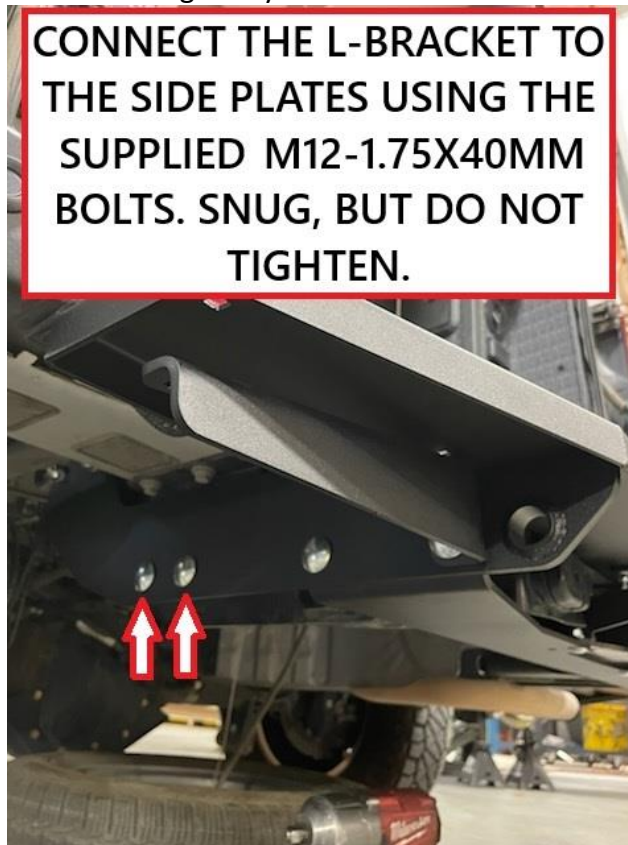
9. On some models, the trailer plug bracket may interfere with the front bottom carriage bolt on the driver side. The installer can trim the OEM trailer plug bracket as shown below to access the nut.
- a. Alternatively, the forward carriage bolt on the driver side can be omitted if trimming is not desired.



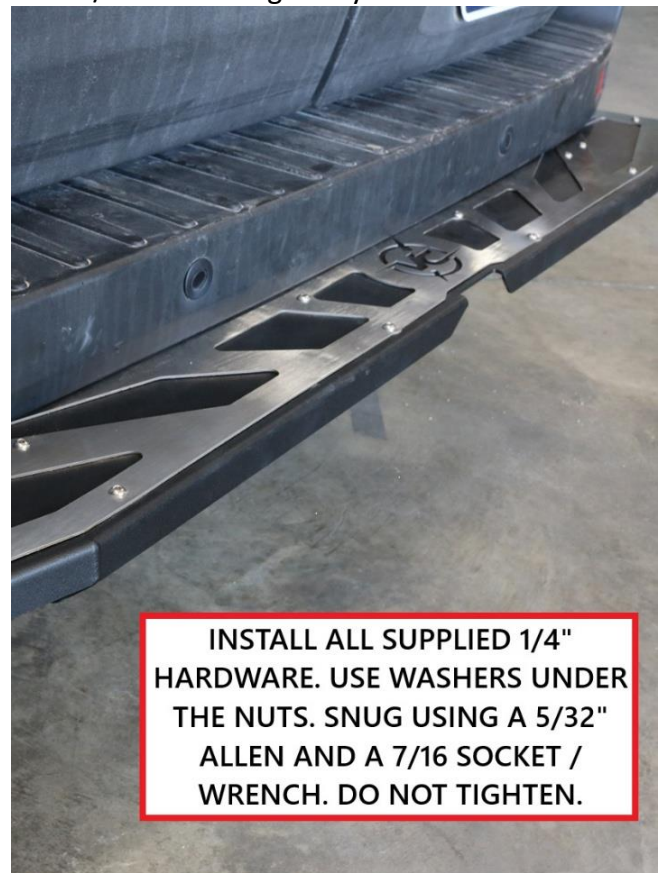
10. Connect the cross plate to both side plates using the supplied M12-1.75 x 40mm bolts, nuts, and washer. The rear bolt goes through the side support as well. Snug using a 19mm. Do not tighten yet.



11. Connect the L-brackets to the side plates using the supplied M12-1.75 x 40 mm bolts, nuts, and washers. Snug using a 19mm. Do not tighten yet.



12. Connect the center supports, side plates, and side supports to the step and traction plate using the supplied 1/4" hardware. Snug using a 5/32" Allen and a 7/16. Do not tighten yet.



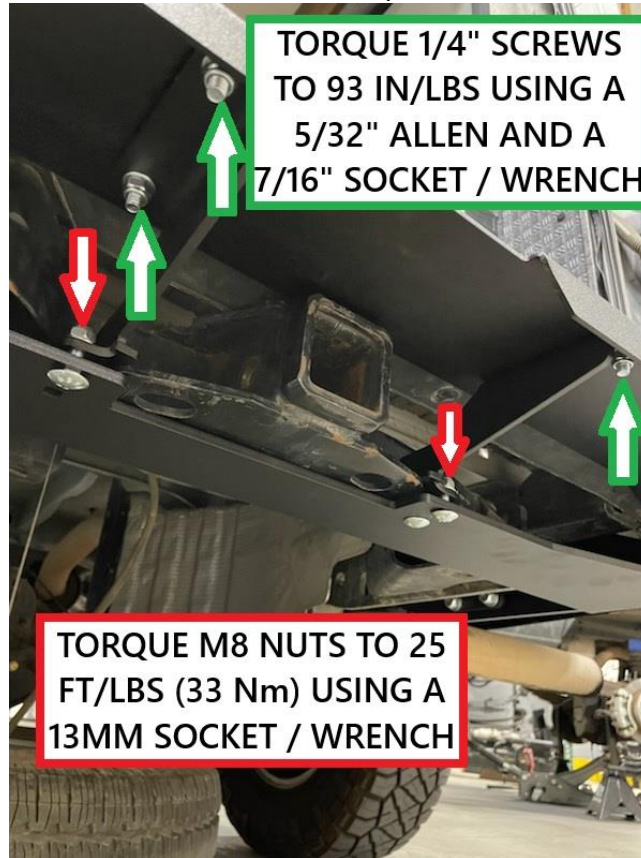
13. Connect the center supports to the cross plate using the supplied M8 hardware. Torque to 25 ft-lbs (33 N.m) using a 13mm socket / wrench.
14. When tightening the mounting hardware, use a floor jack to hold both side plates even with the bumper. Start tightening from front to back. Torque all M12 hardware to 86 ft-lbs (117 N.m) using an 19mm socket / wrench.



15. Torque factory bolts to 86 FT/LBS (117 Nm) using a 15mm socket/wrench.



16. Use a 5/32" allen and 7/16" socket to torque all 1/4" hardware to 93 in-lbs (10.5 N.m). Start with the center supports and work from the center of the step out.



17. Use a 13mm to torque all M8 hardware to 25 ft-lbs (33 N.m).
18. Crank the lug wrench clockwise to retract the spare tire back up to the bottom of the vehicle.
19. Replace the cover and store the lug wrench.



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.