



4119 – 2019-2022, MERCEDES SPRINTER 2500, FRONT TOW POINT

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 front tow point that can be installed with basic hand tools. Removal of the front bumper is required for installation on 2019-2022 V6 3.0L VS30 models.
- Trimming of the plastic front bumper cover is required for installation
- This tow point replaces the factory overrun brackets and works with all Van Compass engine skids. This kit can be completely removed and the factory overrun brackets can be re-installed if desired.

Parts List

4119 – 2019-PRESENT, MERCEDES SPRINTER, FRONT TOW POINTS

- | | |
|--------------------------|--------------------------------------|
| • (2) 411901 | MERCEDES SPRINTER, FRONT TOW POINT |
| • (2) 411902 | MERCEDES SPRINTER, SUBFRAME BRACE |
| • (12) HM12-1.50-30-10.9 | M12-1.50 X 30MM LONG, HEX HEAD BOLT, |
| • (20) WF-M12 | M12 FLAT WASHER |
| • (8) NSM12-1.5 | M12-1.50 STOVER NUT |
| • (2) 401002-03 | M12-1.50 NUT TAB |
| • (4) HM8-1.25-25-10.9 | M8-1.25 X 25MM LONG, HEX HEAD BOLT, |
| • (4) WFT-M08 | M8 FLAT WASHER |

Tools Needed

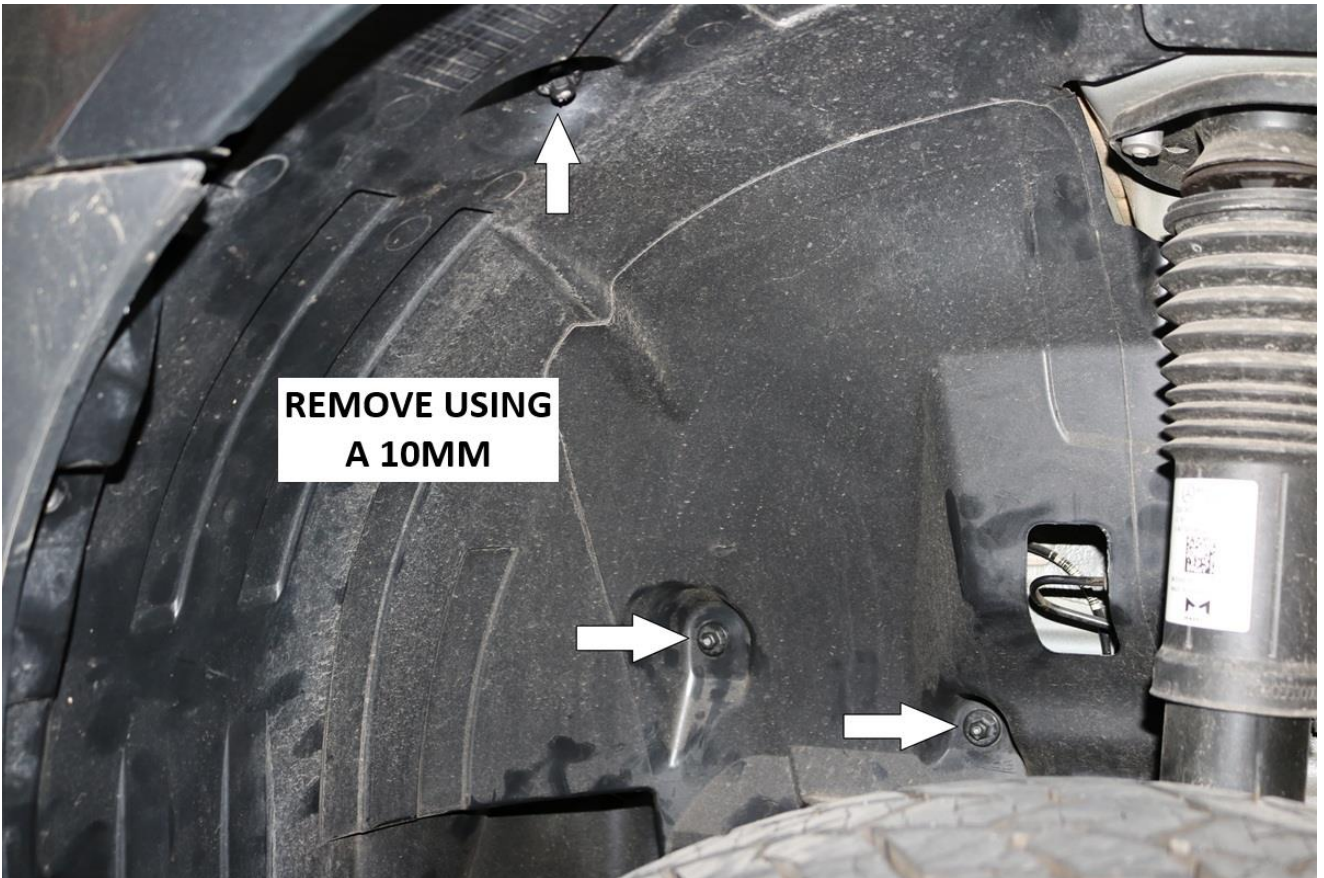
- Simple hand tools:
 - Torque Wrench
 - Body trim removal tools
 - Pencil and ruler
 - Oscillating saw, or similar for cutting plastic bumper cover
 - Drill and ½" drill bit (3500 models)
 - Basic wrench and socket set:
 - Metric Sizes:
 - 8mm (12pt), 10mm, 13mm, 18mm, 19mm, 21mm
 - T-25, T-30, T-45 torx
 - 10mm external torx

Approximate Installation Time

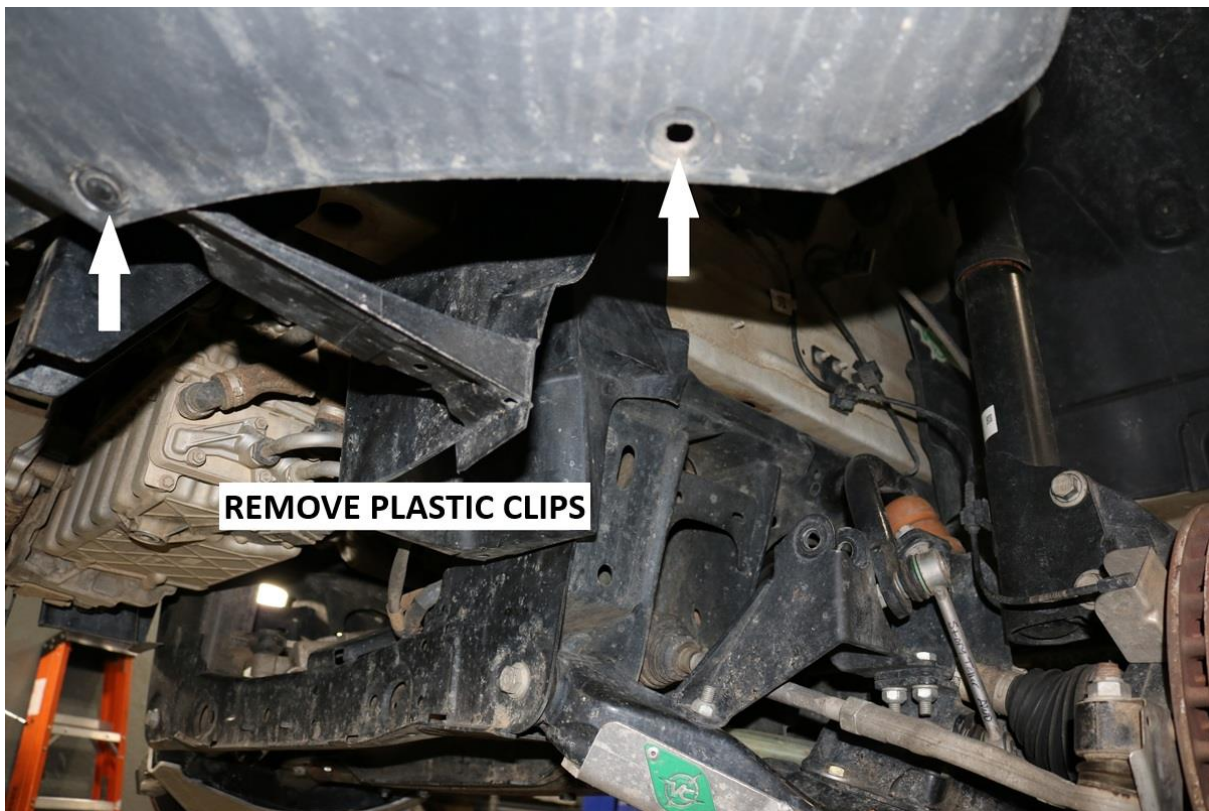
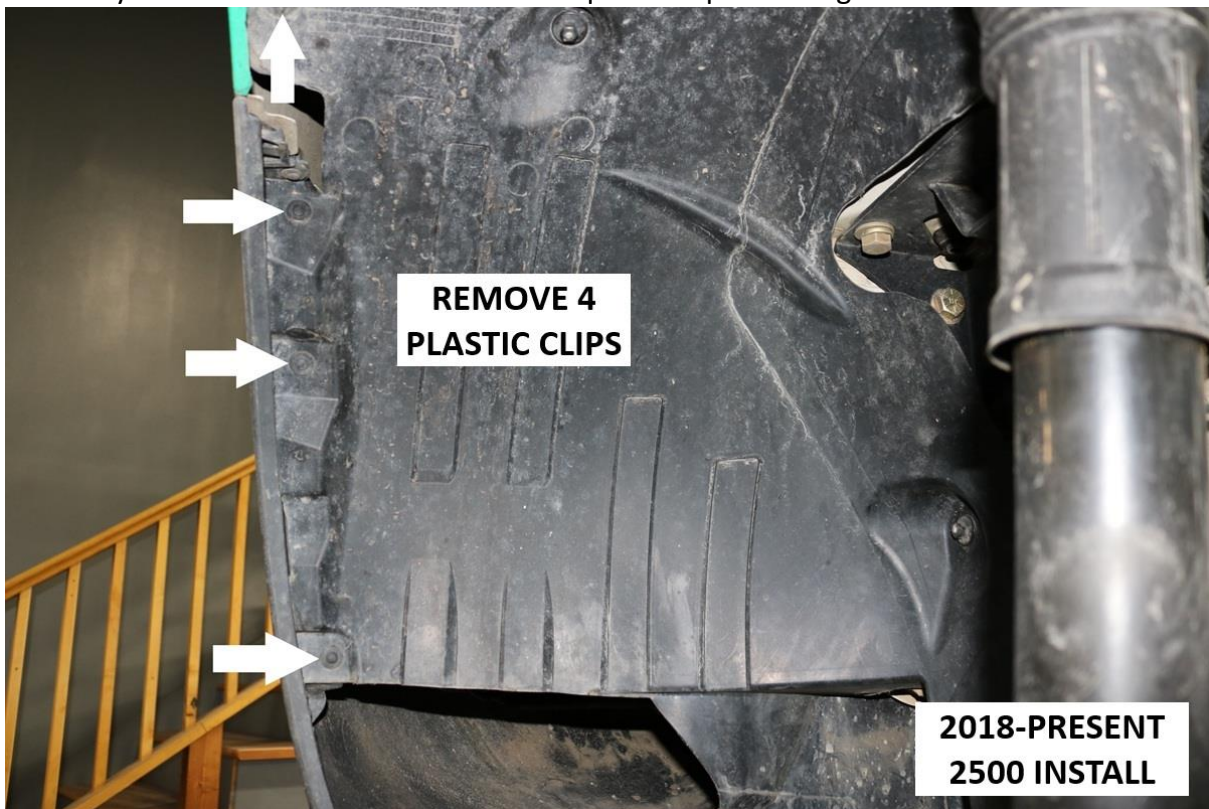
- 2-3 hours

Installation:

1. Note, installation of this product can be done with the vehicle sitting on the ground at ride height. However, it is easier to access some components with the front of the vehicle safely supported so the front suspension can hang free and front tires removed.
2. These instructions will show installation on the driver's (left hand) side of the vehicle. Installation on the passenger side is identical except steps pertaining to the DEF tank reservoir and inner cooler (Noted in steps).
3. Use a 10mm socket to remove the 3 plastic nuts securing the front plastic wheel well liner.



4. Use a body trim removal tool to remove the 6 plastic clips securing the front wheel well liner.



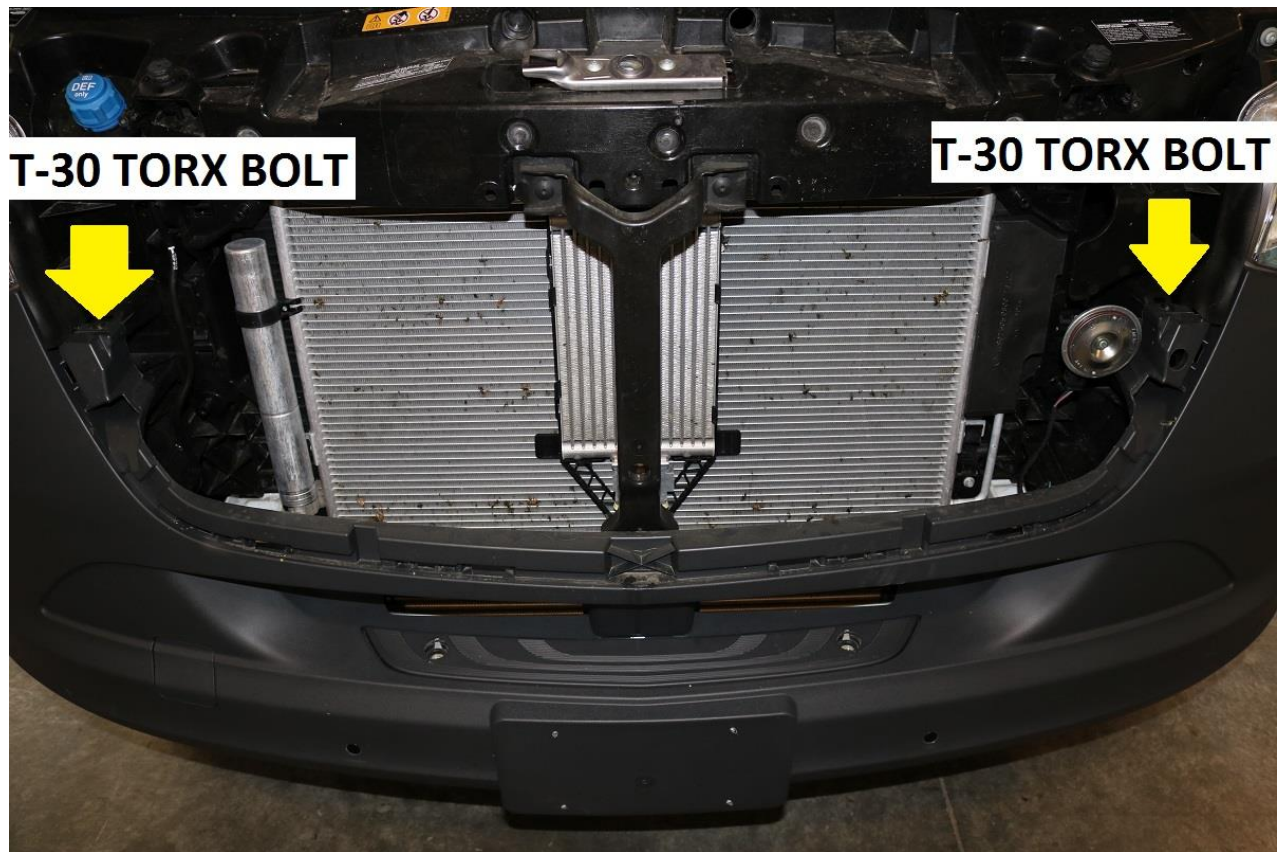
5. Carefully pull the liner over the threaded studs, slide it forward, to remove the wheel well liner

6. Open the hood and locate the three torx head screws securing the grill to the core support. Use a T-25 Torx head socket and remove these three screws. See image below for reference.



7. With the upper part of the grill separated, gently pull the top of the grill back to locate and remove the two T-30 torx head bolts securing the top of the bumper cover to the vehicle.
- a. The first image below shows the T-30 torx bit w/ extension in place. The second image shows the location of the T-30 torx bits on both sides of the vehicle with grill removed for clarity.

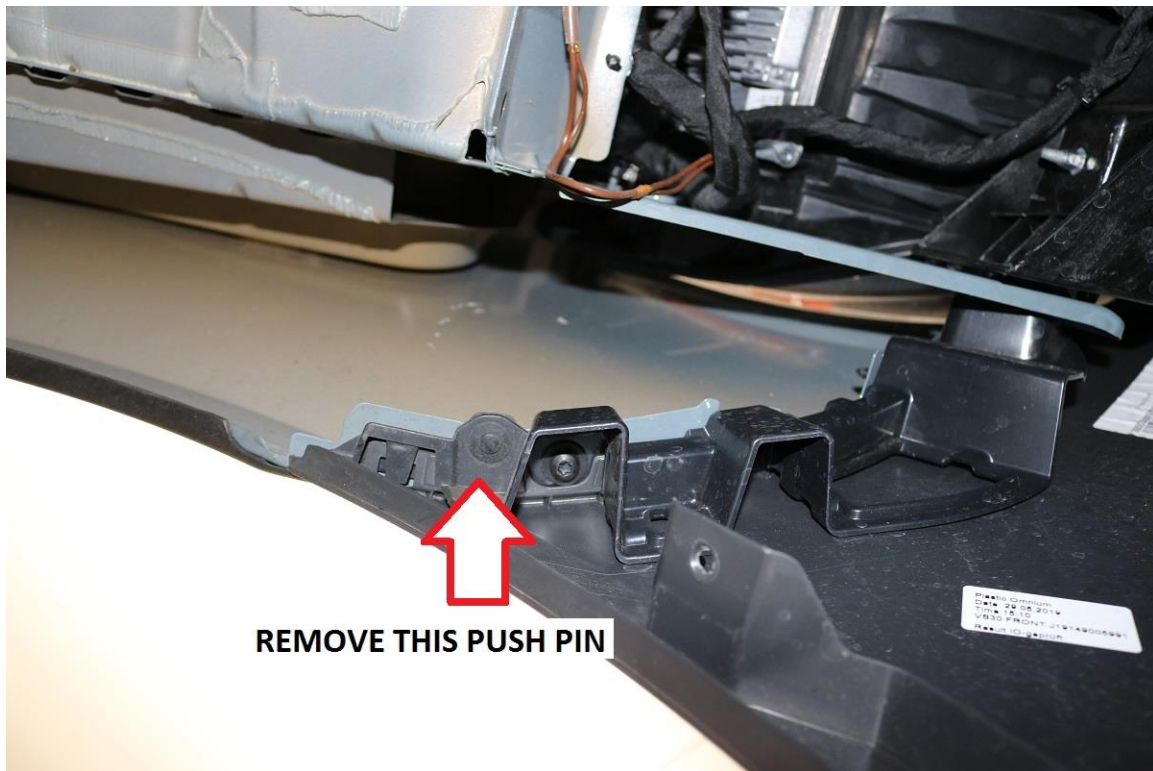




8. Use a small flat blade screw driver or automotive trim removal tool to pry up the plastic caps on the front step which will reveal two T-45 torx bolts.



9. With the caps off, use a T-45 Torx bit to remove the two step bolts.
10. Remove the two push pins located near the front bottom side of the bumper which connect the inner fender well to the front bumper. See image below.
11. Look up from the inside of the fender where the plastic bumper cover meets the metal fender and locate the last remaining push pin securing the bumper cover to the vehicle.

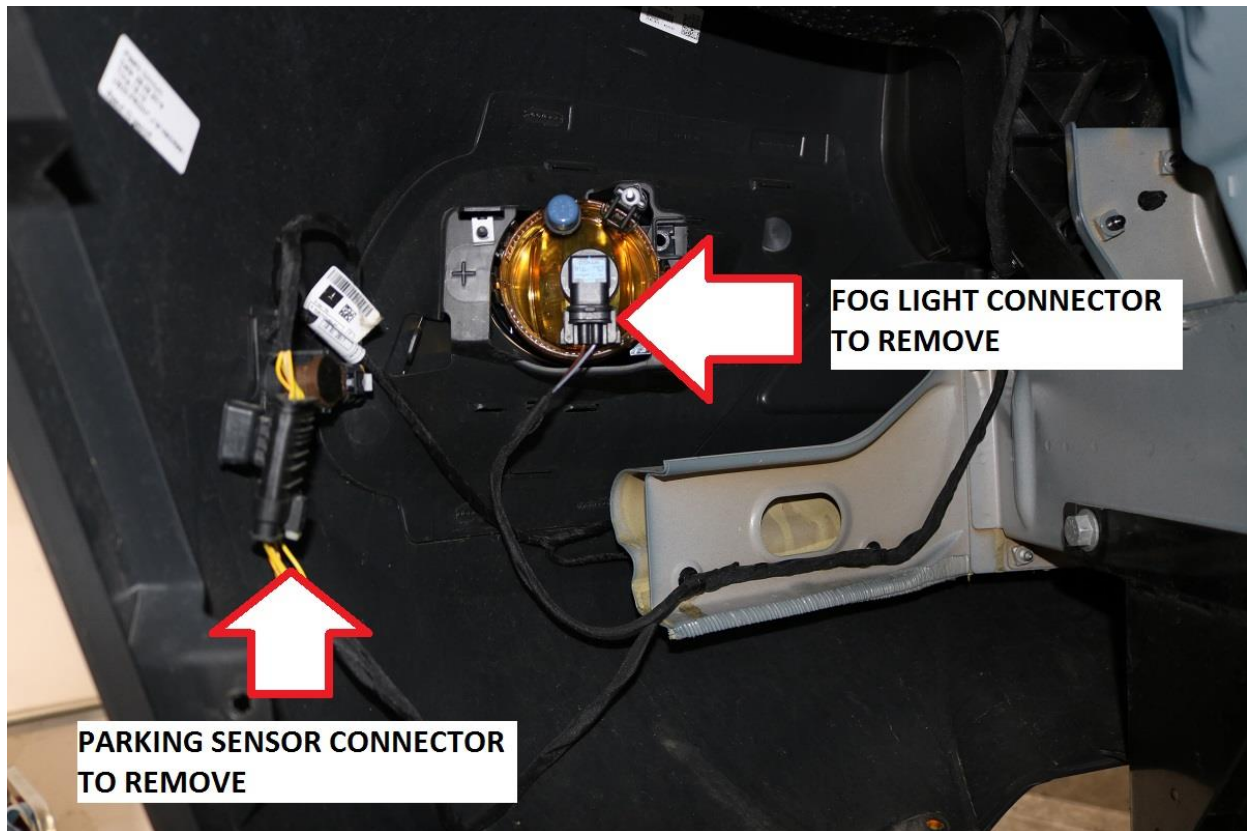


12. The plastic bumper cover can now be separated from the vehicle. Pull outwards on the side of the bumper cover where it meets with the bottom of the front fender. See image below for reference.
 - a. Support the bottom of the fender when pulling outwards on the bumper cover.

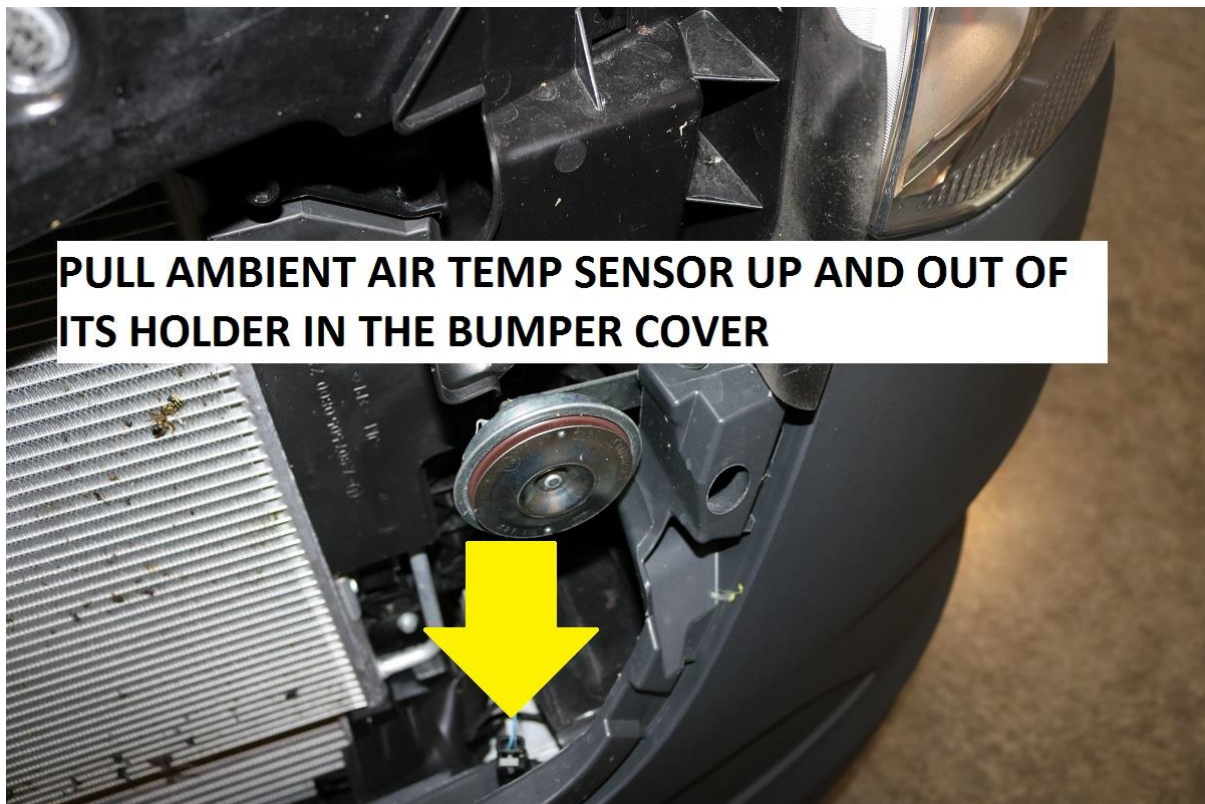


13. As the bumper cover is removed, take note to unplug the front parking sensor wiring on the driver (left hand) side of the bumper cover. There is a weather pack connector to allow for bumper cover removal.

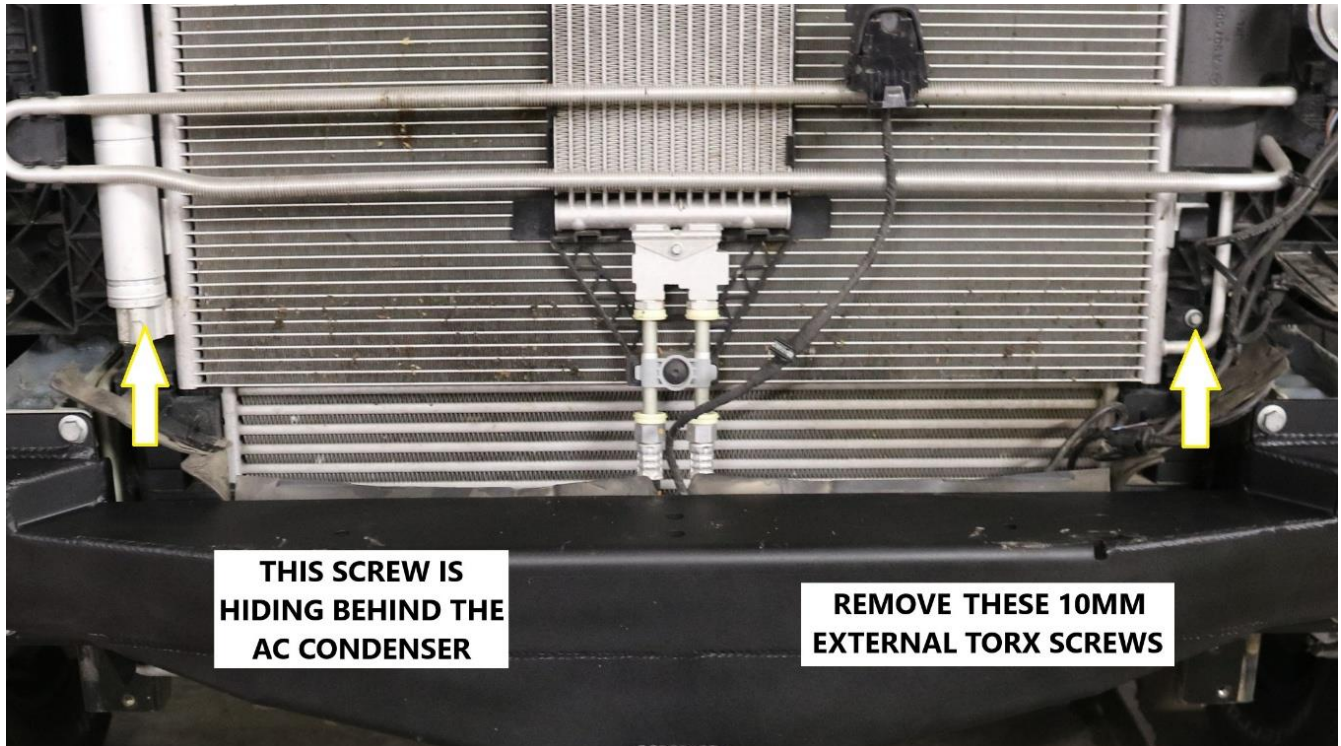
- a. If the vehicle is equipped with factory fog lights, there will be additional connectors to unplug on both sides of the vehicle for the bumper cover to be fully removed.



14. Locate and remove the ambient air-temp sensor from its holder near the horn on the driver side.



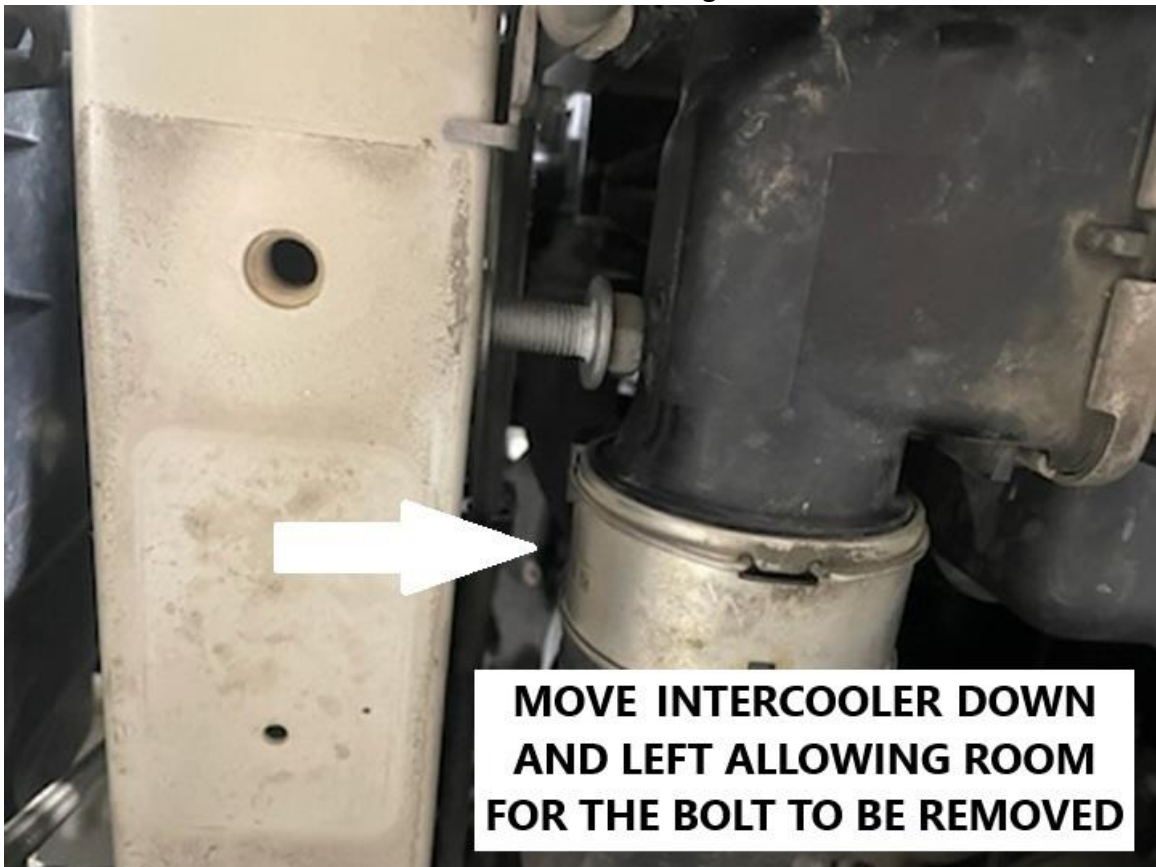
15. Remove the 2 external torx screws mounting the intercooler to the AC condenser using a 10MM E-torx (E-10) or an 8mm 12 point socket.



16. The screw on the right side is behind the AC condenser tube. Loosen the screw with an 8mm 12 pt wrench until it is close to the tube, then turn the screw and feed it around the condenser tube.



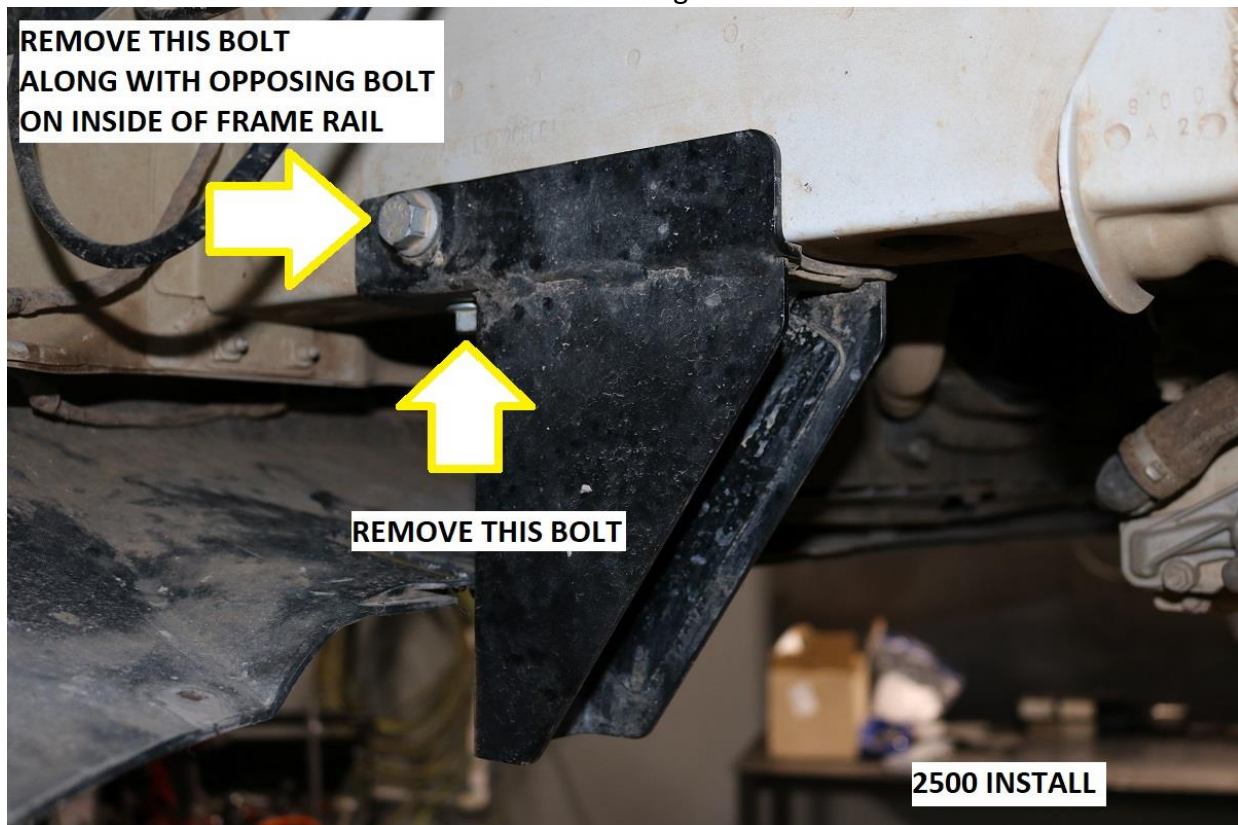
17. Move the intercooler down and to the driver side allowing the inner bolt to be removed.



18. The transmission cooler line tab interferes with the tow point. Bend the tab straight down for clearance for the tow point to be installed

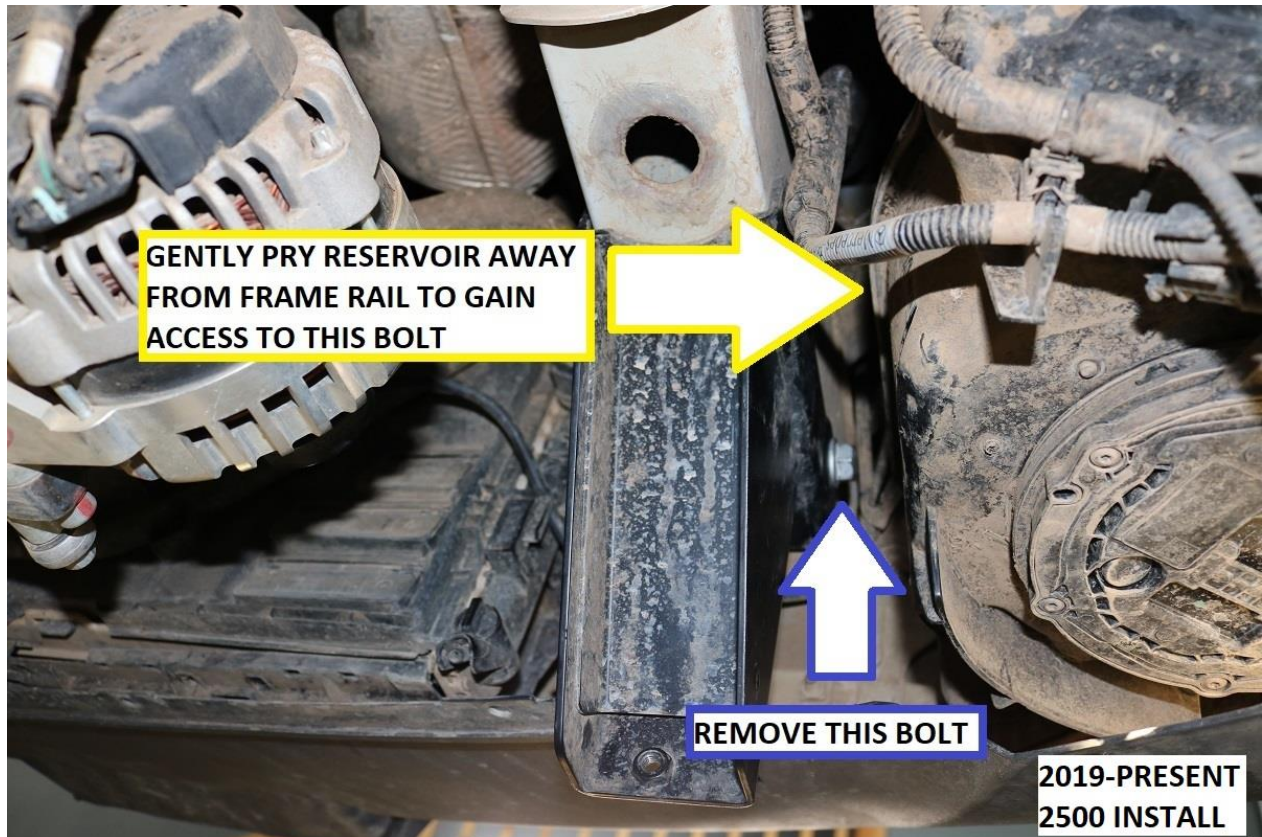


19. Use an 18mm wrench to remove the 3 bolts securing the overrun bracket to the bottom of the frame.

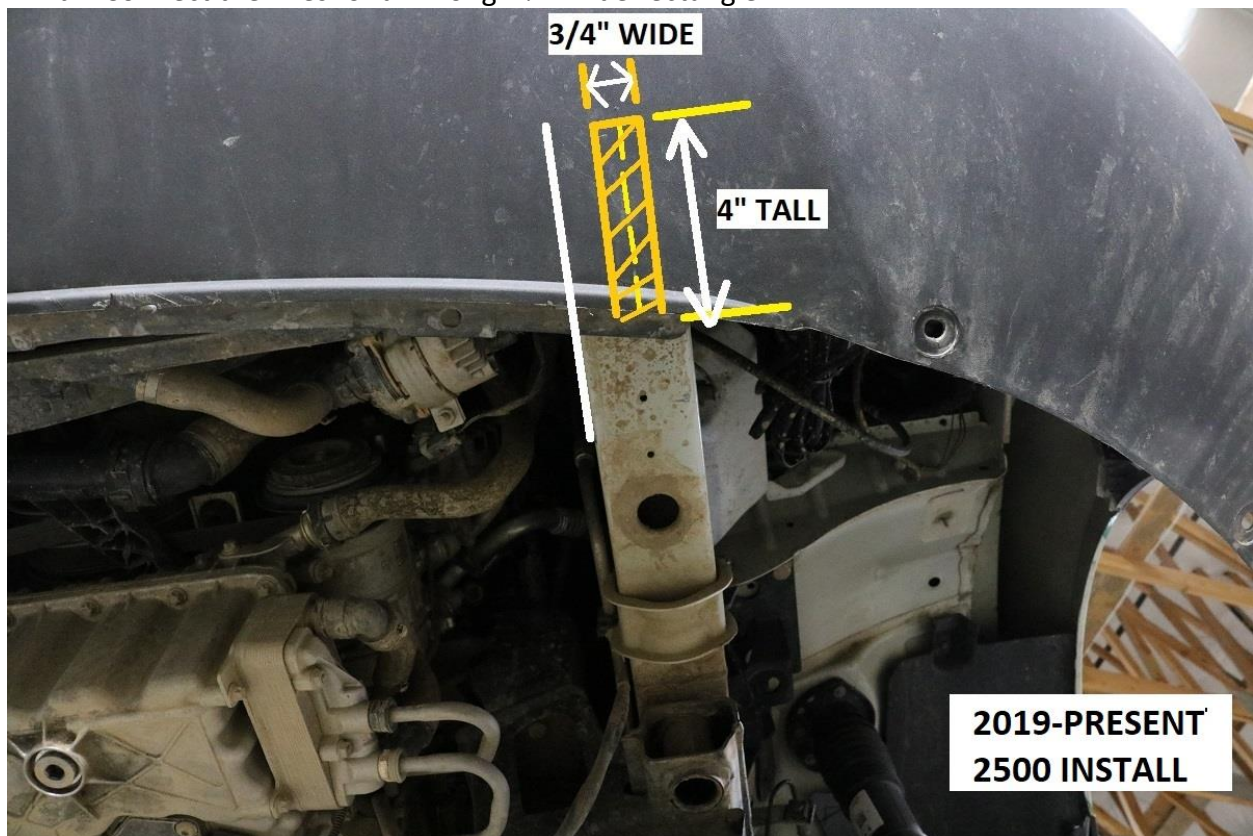


20. On the passenger side, the DEF tank reservoir prevents the outer bolt from being fully removed.
- Use a 13mm wrench to remove the bolt securing the reservoir to the frame, then lightly pry the reservoir away from the frame to remove the bolt for the factory overrun mount. It may be necessary to remove 2 or 3 of the bolts mounting the reservoir to the frame. If removing 2 or more bolts, ensure the reservoir is supported before removing bolts.



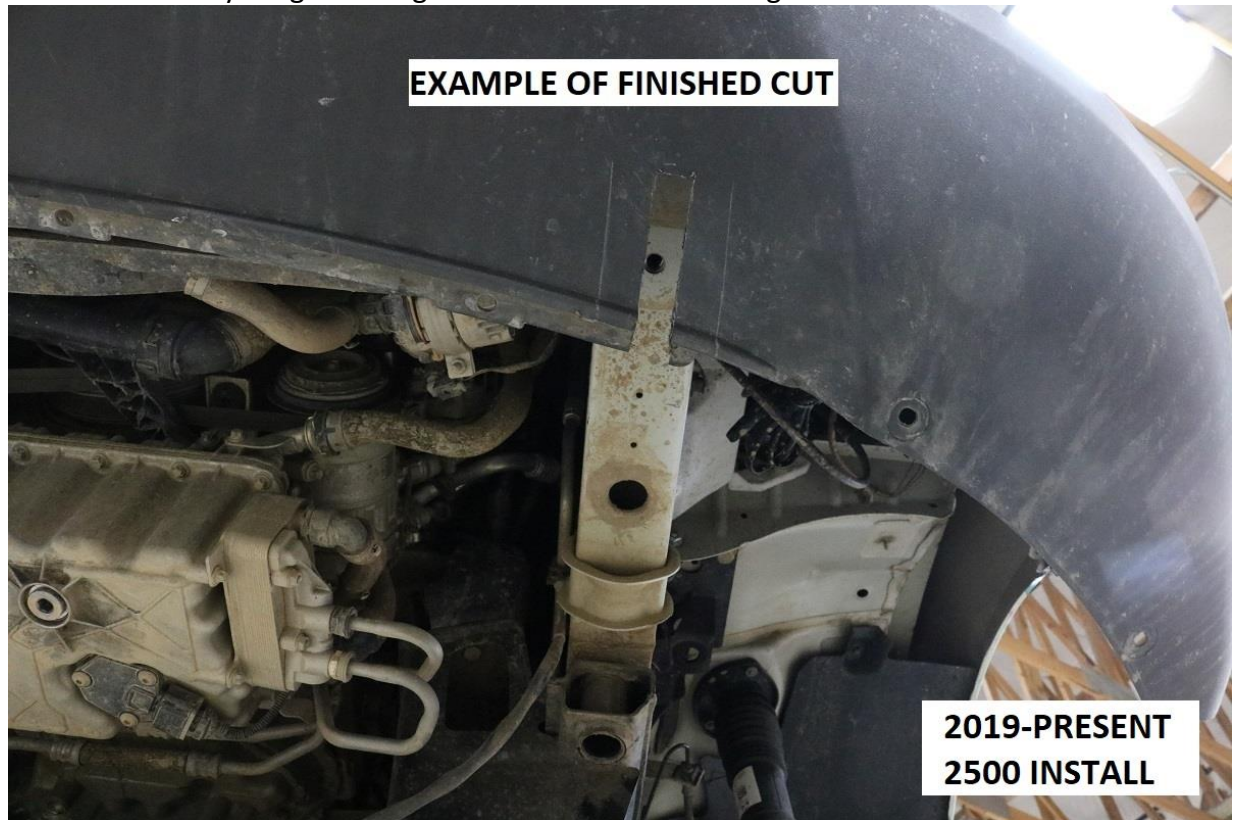


21. With both tow points installed, position the bumper on the front of the van. Ensure it is centered on the van and not twisted. Mark the tow point locations on the bumper by transferring lines onto the bumper from both sides of the tow point using a straight edge.
- Measure 4" from the edge of the plastic and mark a perpendicular line.
 - Connect the lines for a 4" long x $\frac{3}{4}$ " wide rectangle.



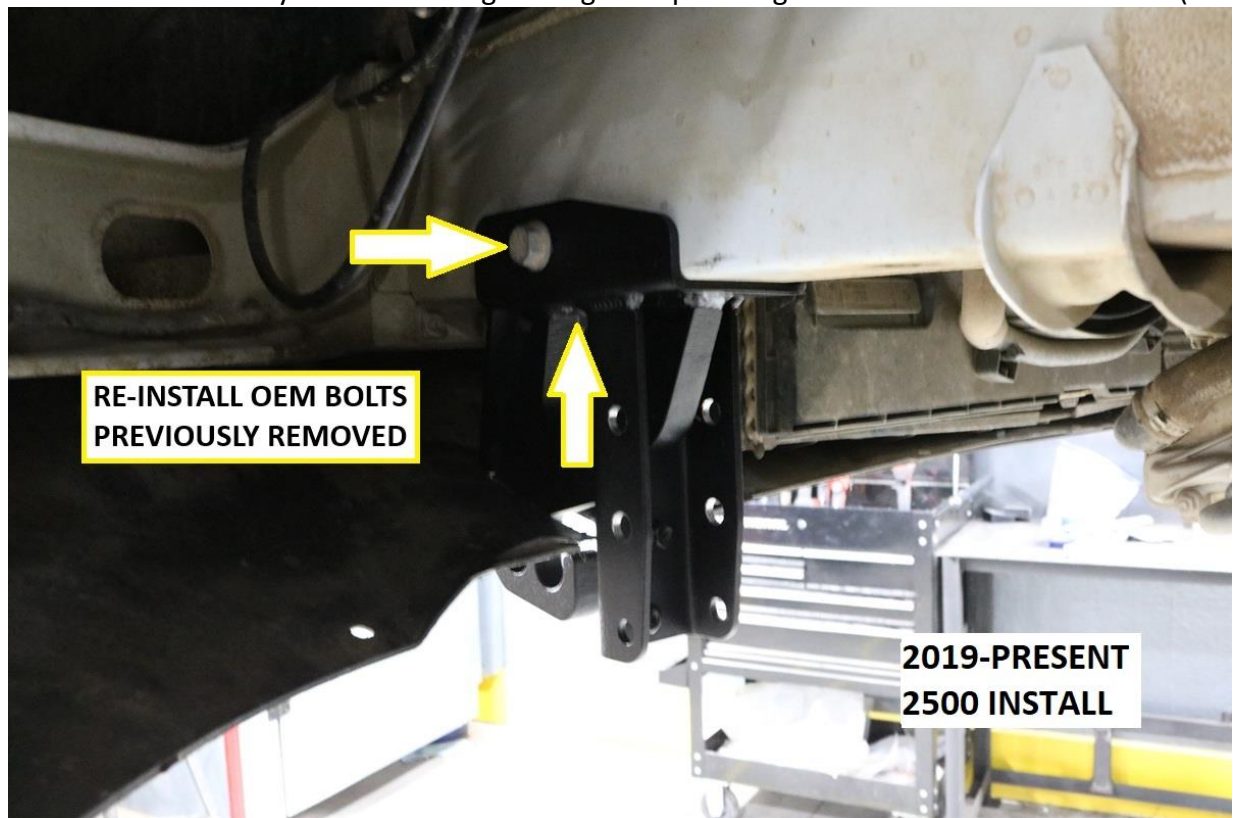
22. Carefully cut along the lines. Example of finished cut shown below.

- a. Deburr any rough-cut edges with a burr bit on a die grinder or a hand file.



23. Mount the shackle mounts to the frame using the OEM hardware previously removed in steps 7-8. On the passenger side, gently pry the reservoir away from the frame rail to install the bolt.

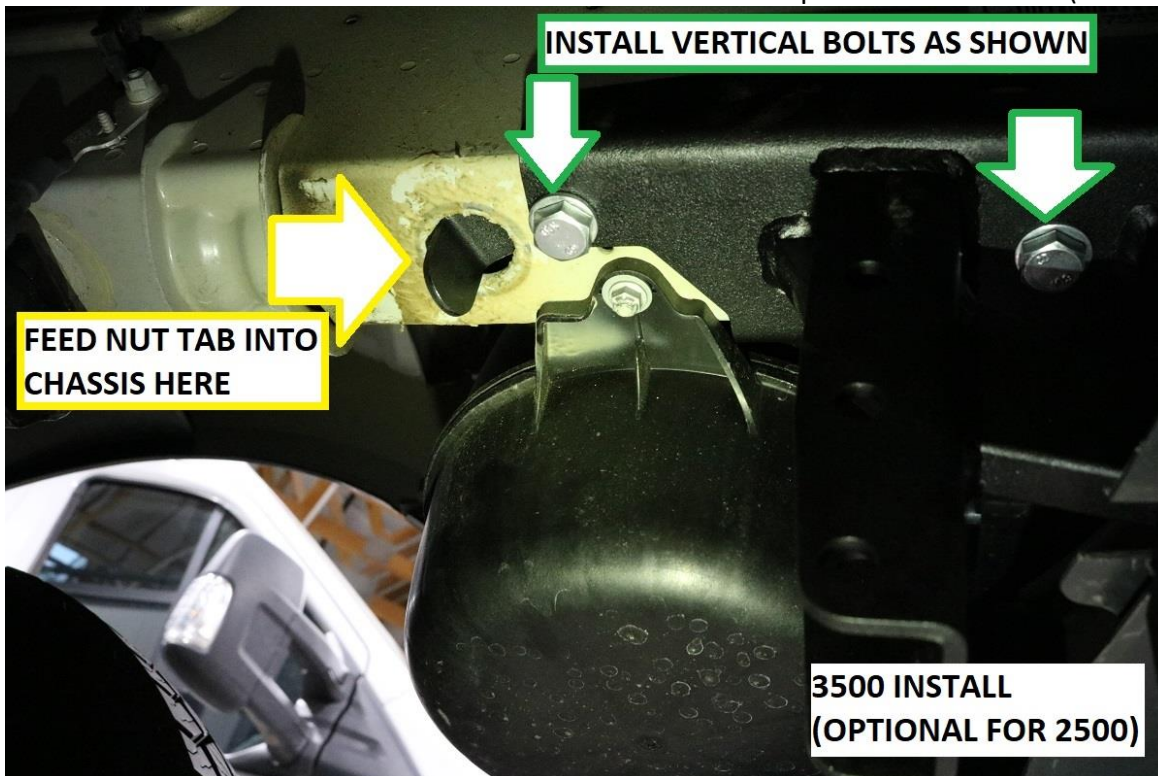
- a. Start all factory bolts before tightening. Torque using an 18mm wrench to 52 ft-lbs (70 N.m)



24. **OPTIONAL ADDITION FOR 2500 VANS:** Bolt the shackle mounts to the frame using the supplied M12-1.5 bolts in the front bottom hole.
- a. Note the cut-out goes to the outside of the frame to provide clearance to the vacuum tank on 3500s on the driver side.
 - b. Use the tow point as a drill template and use a ½" (12.5 mm) drill bit to drill as shown.

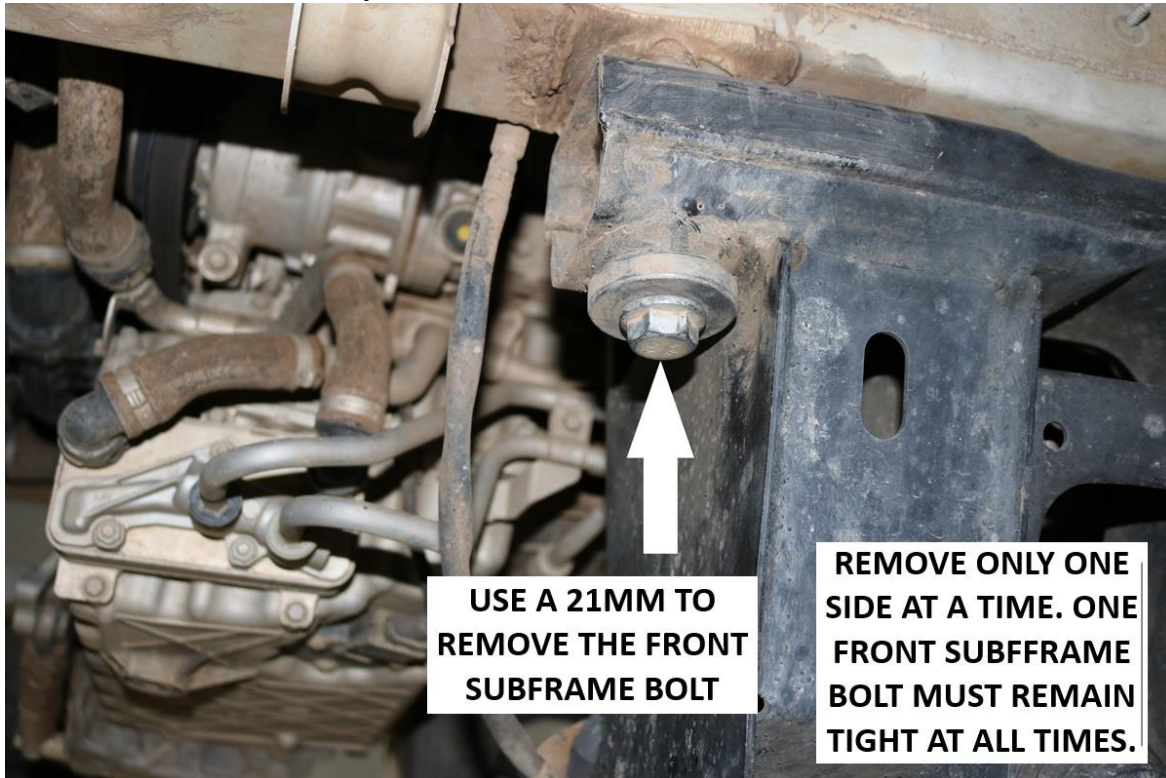


25. Use the supplied nut tab and M12-1.5 bolts to mount the bracket through the drilled hole. Be sure to use a washer under the bolt head. Use a 19mm wrench and torque bolts to 52 ft-lbs (70 N.m).

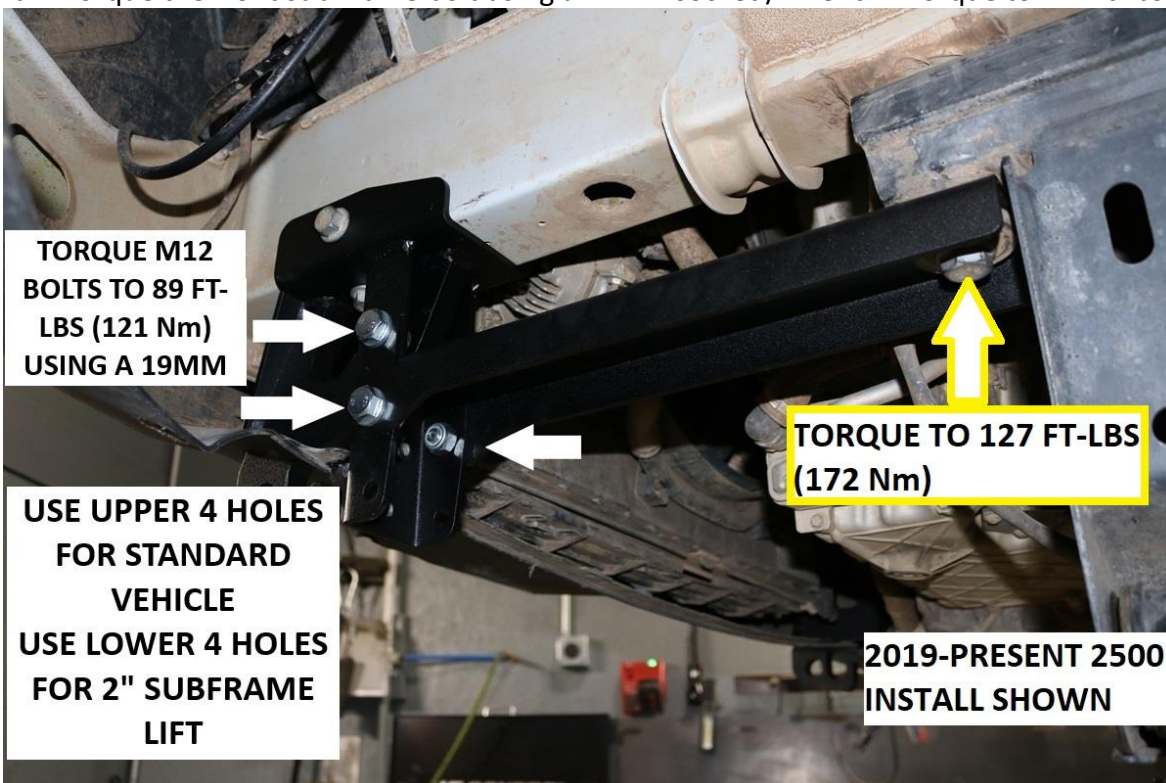


26. Connect the intercooler using the factory bolts and a 10mm external torx.

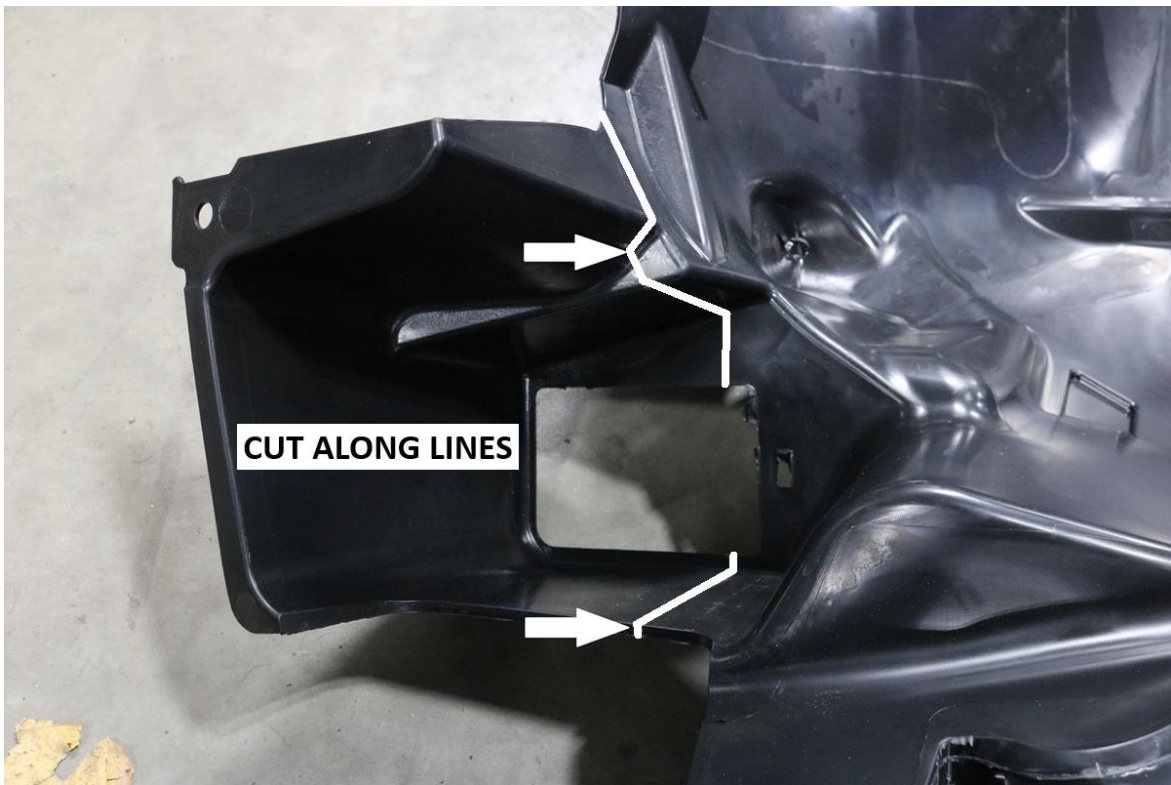
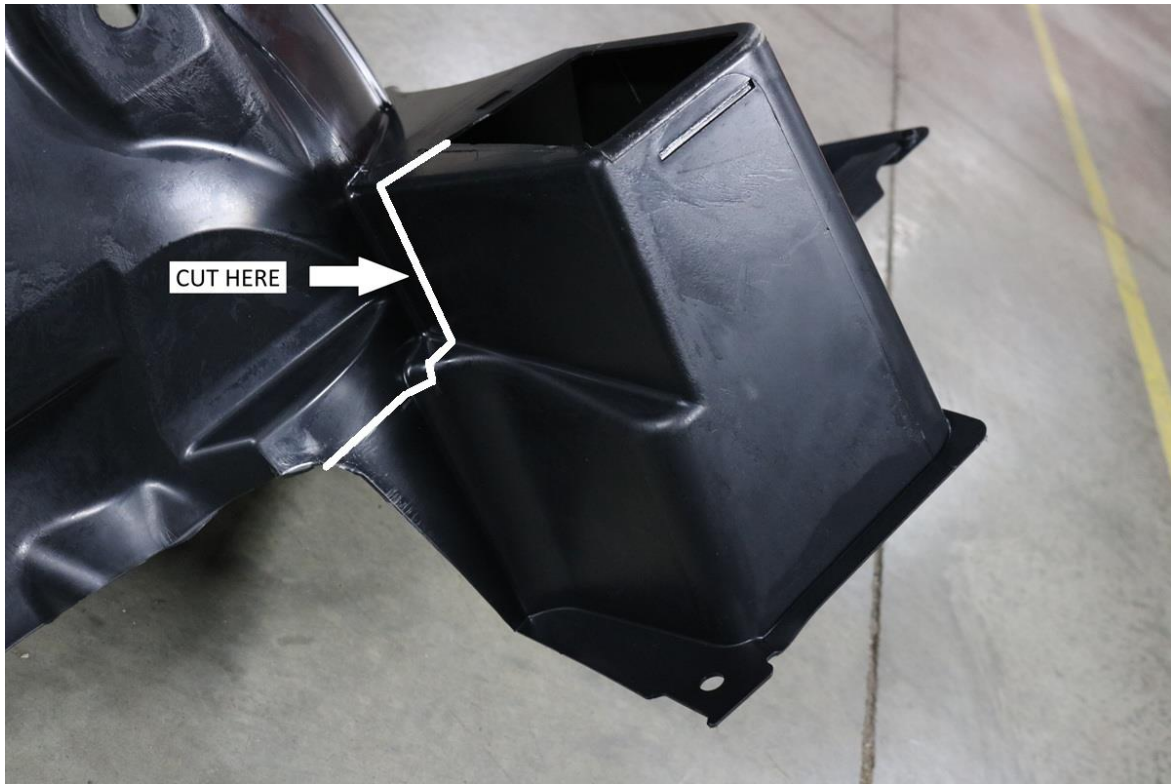
27. Re-install the DEF tank reservoir bolt or bolts (previously removed in step 8) using a 13mm wrench and torque to 22 ft-lbs (29 N.m)
28. Remove the front sub-frame bolt using a 21mm. Only remove one side at a time as these are under tension while the vehicle is on jackstands.

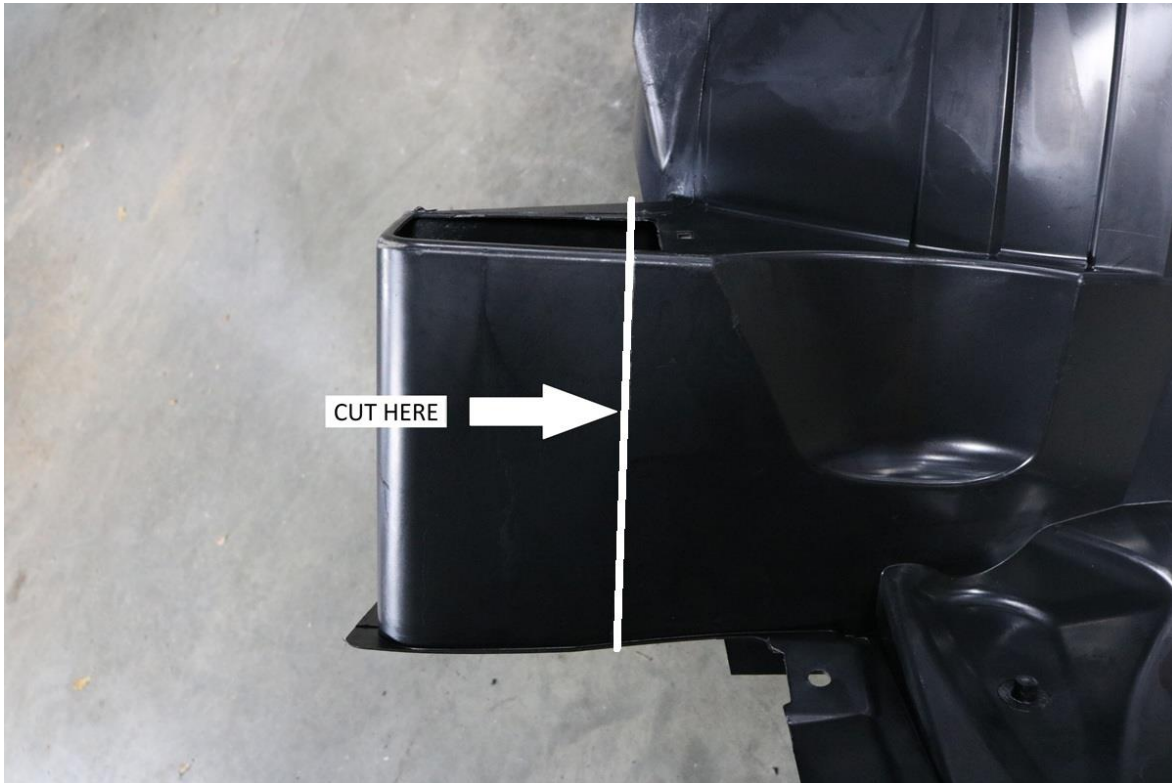


29. Use the factory subframe bolt to mount the brace to the subframe.
30. Mount the brace to the tow point using the supplied 12mm hardware. Torque to 89 ft-lbs (121 N.m) using a 19mm socket / wrench.
- a. Torque the front sub-frame bolt using a 21mm socket / wrench. Torque to 127 ft-lbs (172 N.m)



31. If mounting a skid-plate, mount to the tow point using the supplied M8 hardware. Be sure to utilize the large M8 flat washer under the bolt head. Torque to 22 ft-lbs (30 N.m) using a 13mm socket / wrench.
32. Mark and trim the front fender liners as shown.





33. Re-install the front fender liners using the factory plastic clips and nuts.

34. Install the front wheels and torque to factory spec if removed for installation.

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.