



2016 – 2007-PRESENT, MERCEDES SPRINTER, NEUTRAL CAM LOCKOUT WASHERS

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.
- This kit is adaptable only on Van Compass Falcon Rally struts. This kit cannot be installed on any other brand of struts.
- This kit locks out the alignment capabilities on a Mercedes Sprinter front end. It is designed to set the alignment “neutral” in the middle of its adjustment range on Van Compass Falcon Rally struts.
- Specifically designed for vehicles being used under extreme offroad conditions.
- Kit can be utilized on both RWD or 4x4 / AWD models
- Instructions will document installation on a 2023 AWD 2500 model.
- An alignment will be required after installation of these cam lockout washer to set the toe and ensure tire wear will be kept to a minimum.

Parts List

2016-4X4 – 2007-PRESENT, MERCEDES SPRINTER, NEUTRAL CAM LOCKOUT WASHERS

- (4) 201602 NEUTRAL CAM LOCKOUT WASHER
- (2) HFM14-2.00-100-10.9 FLANGED HEX BOLT, M14-2.00 X 100MM LONG, GR 10.9 MAGNI-COAT
- (2) NSF14-2.00 FLANGED STOVER NUT, M14-2.0 MAGNI-COAT

Tools Needed

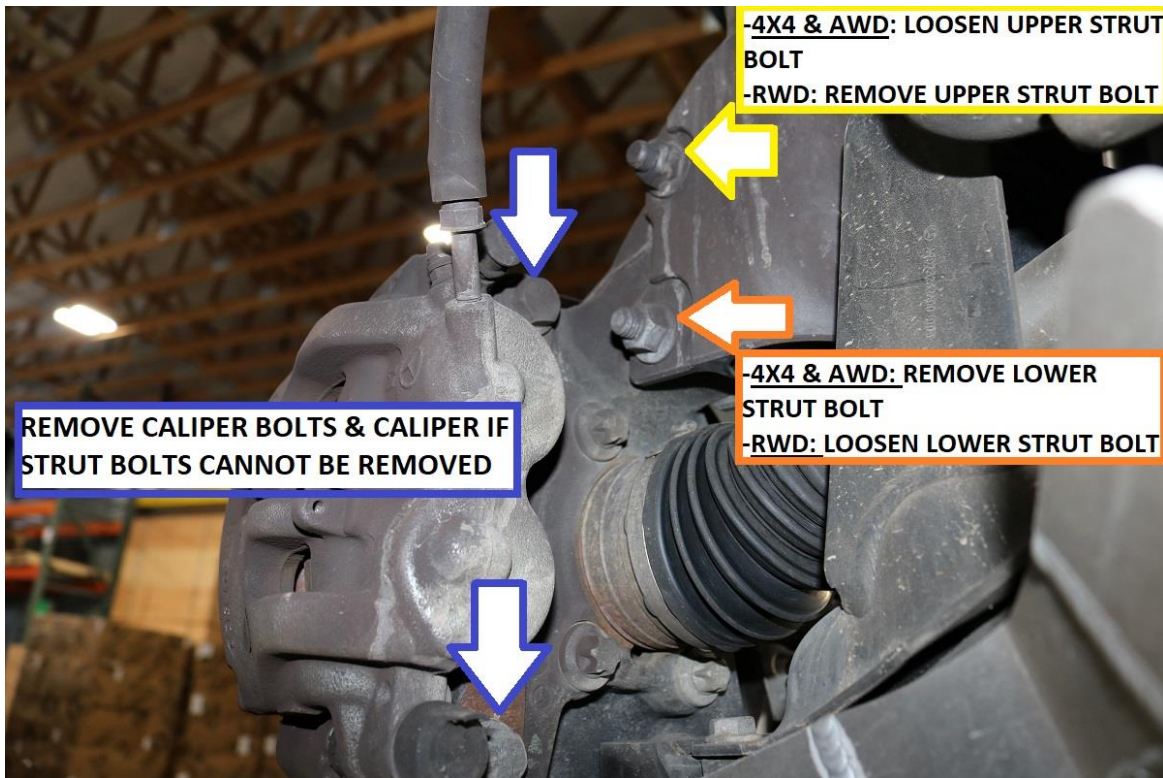
- Simple hand tools:
 - Torque Wrench
 - Basic wrench and socket set:
 - Metric sizes: 18, 21mm
- Recommended:
 - Automobile lift or floor jack and jack stands

Approximate Installation Time

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

Installation

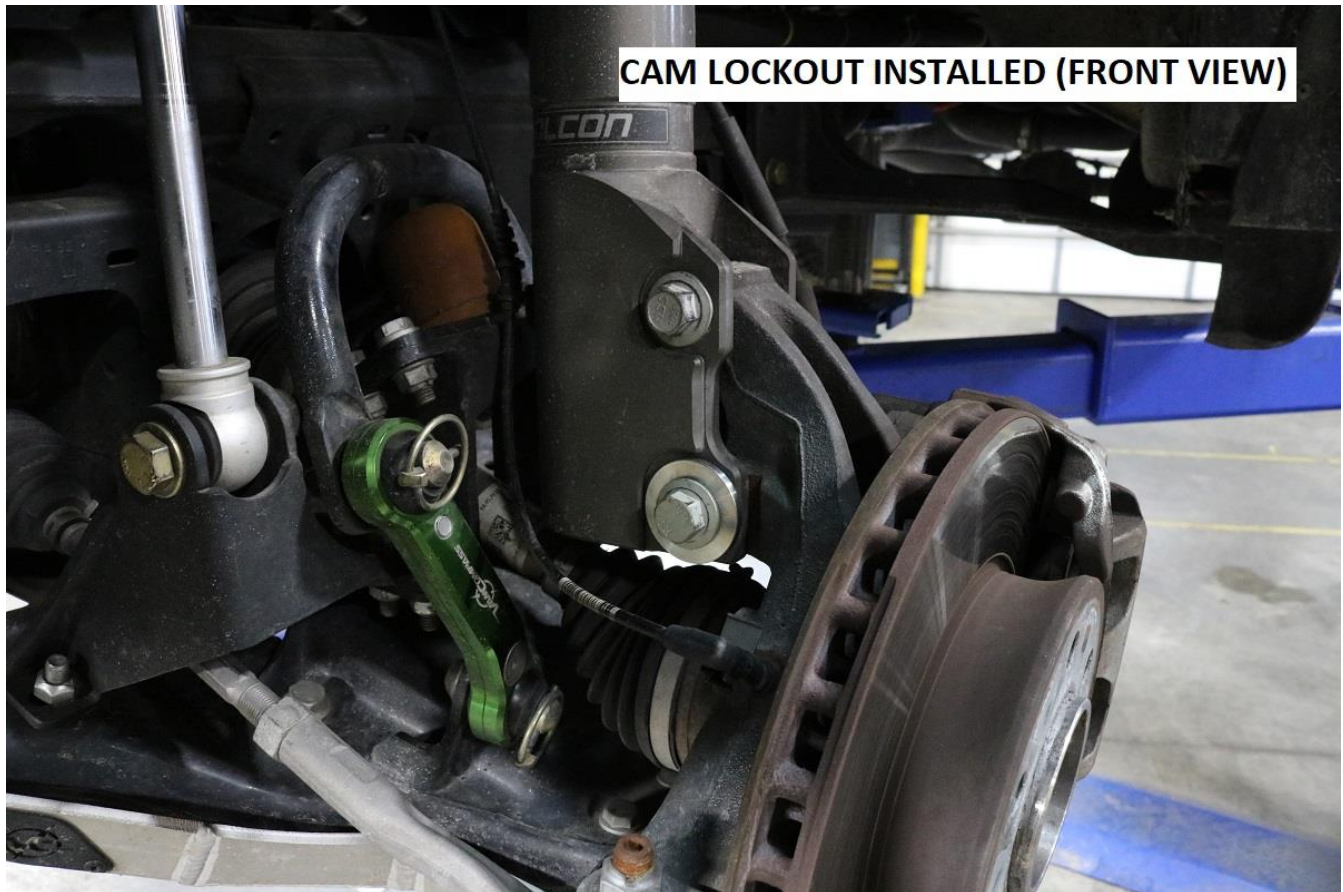
- 1) Raise and support the front of the vehicle so the front suspension can hang free. Remove the front wheels / tires.
- 2) Loosen the top strut bolt for 4x4 & AWD models. Fully remove the lower nut / bolt.
- 3) Loosen the lower strut bolt for RWD models. Fully remove the upper nut / bolt.
 - a. Use an 18mm socket for the bolt head & 21mm for the nut.
 - b. Note; If the bolts are installed from the rear, the brake caliper will need to be removed. Use a 21mm socket / wrench to remove the two caliper bracket bolts. Do not let the caliper hang by the brake hose.
 - c. See images below for reference.



- 4) With the strut bolt removed for the respective slotted location of the strut body, install the new neutral cam lockout washer with the protrusion into the slot of the strut body.
 - a. Install a cam on both the front and rear of the strut ear.



5) Install the new included flange bolt and washer and torque to 127 ft-lbs (172 N.m)





- 6) Re-install caliper if previously removed and torque to 59 ft-lbs (80 N.m). Turn an additional $\frac{1}{4}$ turn after torqueing.
- 7) Re-install wheels and tires if removed and torque wheels to manufacturer's specifications.
- 8) Immediately perform an alignment to ensure toe is set within the proper range.
- 9) 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.