



## **3063 - 2007-PRESENT, MERCEDES SPRINTER, BAJA BRACKET, DOUBLE SHEAR SHOCK MOUNT**

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 is a bolt on shock bracket kit that can be installed with simple hand tools.
- Note; Two small holes will need to be drilled for the forward attachment point of this bracket.
- This kit is designed specifically around Van Compass spec'd Falcon shocks only! We cannot guarantee fitment with other suspension configurations other than our own. This bracket is designed with tight engineering tolerances for a precise fit with the Falcon shock bushing widths we specify with our kits.
- This kit can be removed and the vehicle can be returned to stock at a later date if desired.
- The installation of this kit requires the rear of the vehicle to be placed on jack stands so the suspension can be drooped out to full extension and rear tires removed.

### Parts List

#### **3063 – 2007-PRESENT, MERCEDES SPRINTER, BAJA BRACKET, DOUBLE SHEAR SHOCK MOUNT**

- (1) 306301-LH MERCEDES SPRINTER BAJA BRACKET, LEFT HAND SIDE
- (1) 306301-RH MERCEDES SPRINTER BAJA BRACKET, RIGHT HAND SIDE
- (2) 306302 MERCEDES SPRINTER BAJA BRACKET, SPACER BUNG
- (4) 306303 MERCEDES SPRINTER BAJA BRACKET, FRONT SPACER PLATE
- (2) HM14-2.00-160-10.9 M14-2.00 X 160MM LONG, HEX HEAD BOLT, GR10.9
- (2) NSM14-2.00 M14-2.00 STOVER NUT, CLEAR ZINC
- (6) WF-M14 M14 FLAT WASHER, CLEAR ZINC
- (2) HM14-1.50-100-10.9 M14-1.50 X 100MM LONG, HEX HEAD BOLT, GR10.9
- (4) HM10-1.50-25-10.9 M10-1.50 X 25MM LONG, HEX HEAD BOLT, GR10.9
- (4) NNM10-1.50 M10-1.50 NYLOCK NUT, CLEAR ZINC
- (8) WF-M10 M10 FLAT WASHER, CLEAR ZINC
- (2) 56-09-03-056-3-1 STAINLESS FALCON SHOCK SPACER, .284" W X .570" ID

### Tools Needed

- Quality Jack & Jack Stands
- Simple hand tools:
  - Basic wrench and socket set:
    - Metric sizes: 17mm, 18mm, 21mm, 22mm

- Torque wrench
- Drill with quality metal cutting drill bit (10.8mm or 27/64)
- Paint Chisel / scraper

### Approximate Installation Time

- Professional shop: 45 minutes – 1.5 hours
- Driveway install: 1 hour – 2.0 hours

### Installation

- 1) 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.
  - a. With the rear suspension hanging free, remove the rear wheels / tires.
- 2) Remove the factory shocks. Use an 18mm socket / wrench for the lower bolt and a 21mm socket / wrench for the upper. Retain the lower bolts as they will be re-installed.
- 3) With the rear shocks removed, utilize a paint chisel or similar scraper to remove the built up glue / undercoating material in the corner as shown in the image below. Perform this on both sides of the vehicle.



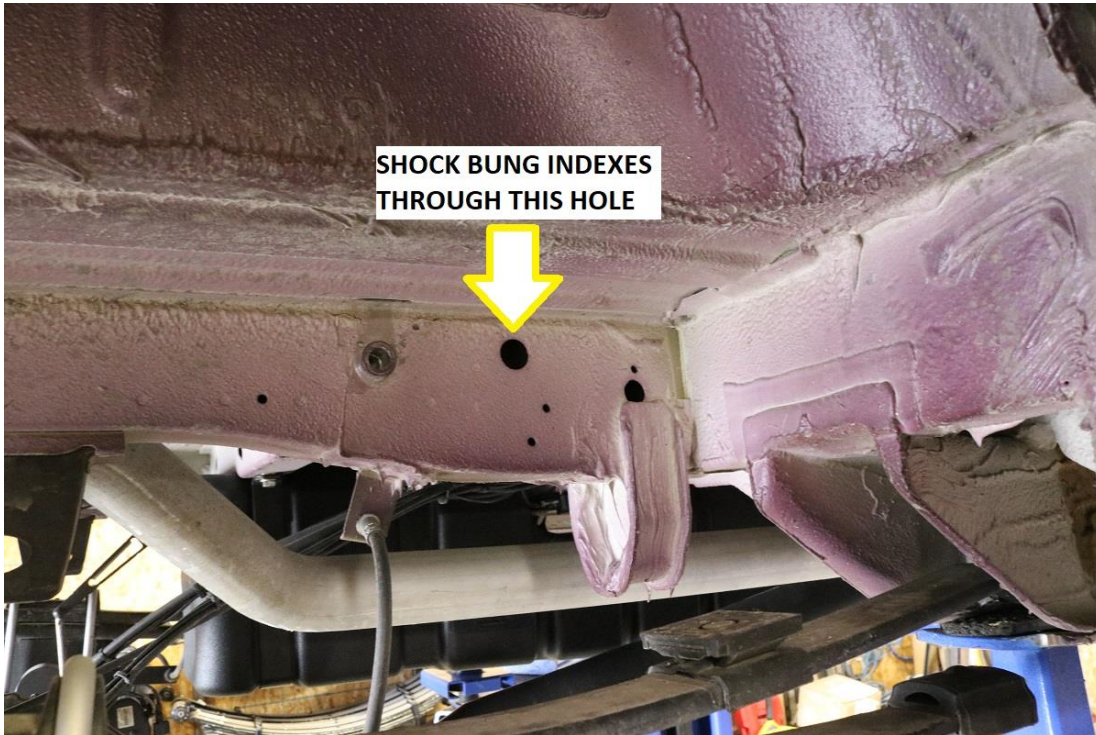


REMOVE GLUE / COATING 3" DOWN FROM FLOOR IN THIS CORNER

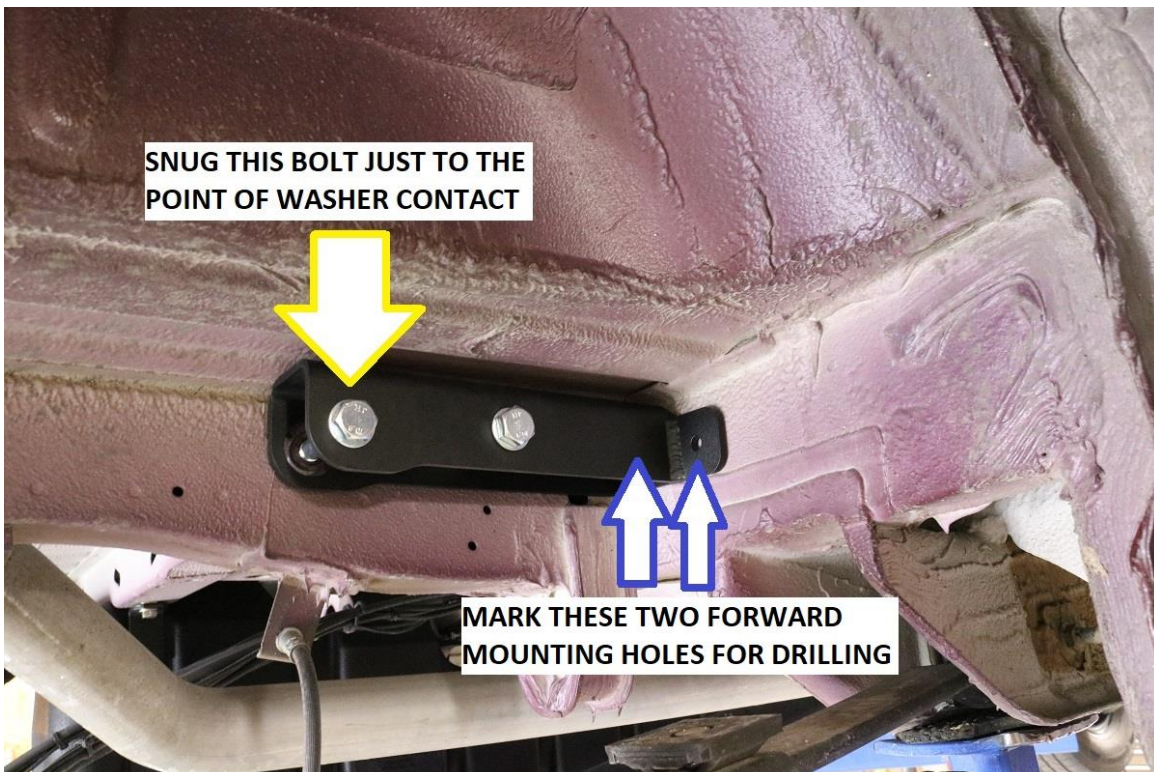
- 4) Install the shock bung spacer into the bracket. Note photo below showing the spacer installed and denoting driver / passenger side orientation.



- 5) Fit the bracket to the vehicle. The shock bung spacer installed in the bracket will fit through the hole in the chassis just forward of the threaded upper shock mount on the vehicle.



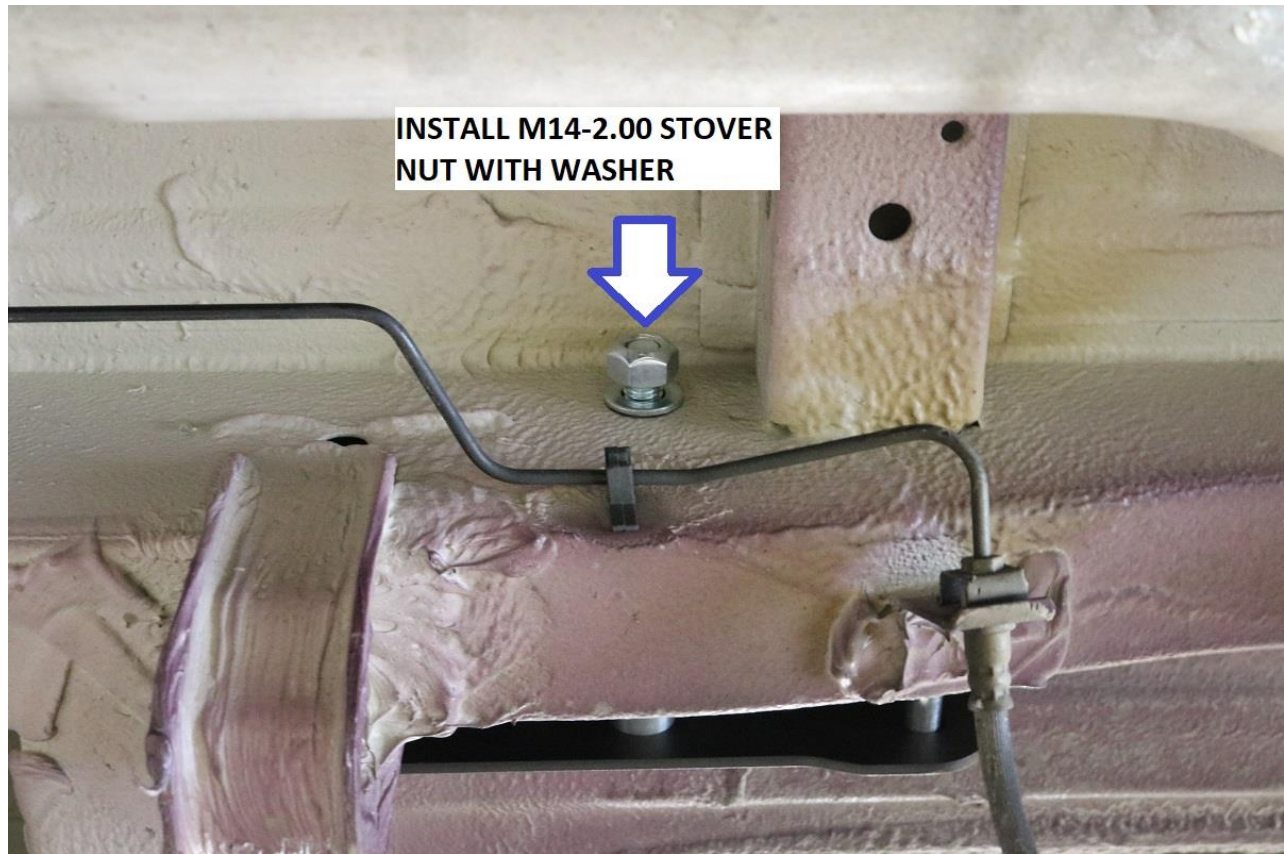
- 6) Next, start the new upper shock bolt included with the kit. This is the shorter fine thread M14-1.50 x 100 mm long bolt. Use one of the included M14 washers under the bolt head and snug the bolt just to the point where the washer is not free to spin under the bolt head. Use a 22mm socket / wrench to snug the bolt to this point.
- At this point make sure the bracket is sitting flat against the chassis. Some loosening of the main shock bolt may be needed to ensure good fitment.
  - Once satisfied with fitment, mark the two forward mounting holes for hole drilling locations.
  - Note; do not be alarmed if there is a gap at the front of the bracket with the leaf spring hanger crossmember. We designed the bracket this way to utilize spacer plates for a perfect fitment.



- 7) Remove the bracket. Center punch and drill the two forward hole locations. We recommend drilling with a 27/64" drill bit or (10.8mm) for ease of bolt installation.
  - a. With the forward mounting holes drilled, paint any exposed areas of metal to prevent corrosion and refit the bracket in the same manner as before in steps 5 & 6.
- 8) Take note of the gap between the front of the bracket and the leaf spring hanger crossmember. Most vehicles will utilize a single 1/8" (3.2mm) spacer plate to be tapped into place for a perfect fit. Do not force the spacer in place if it is much less than .08" (2.0mm)
  - a. Tap the spacer in place with a hammer and flat faced chisel if needed.



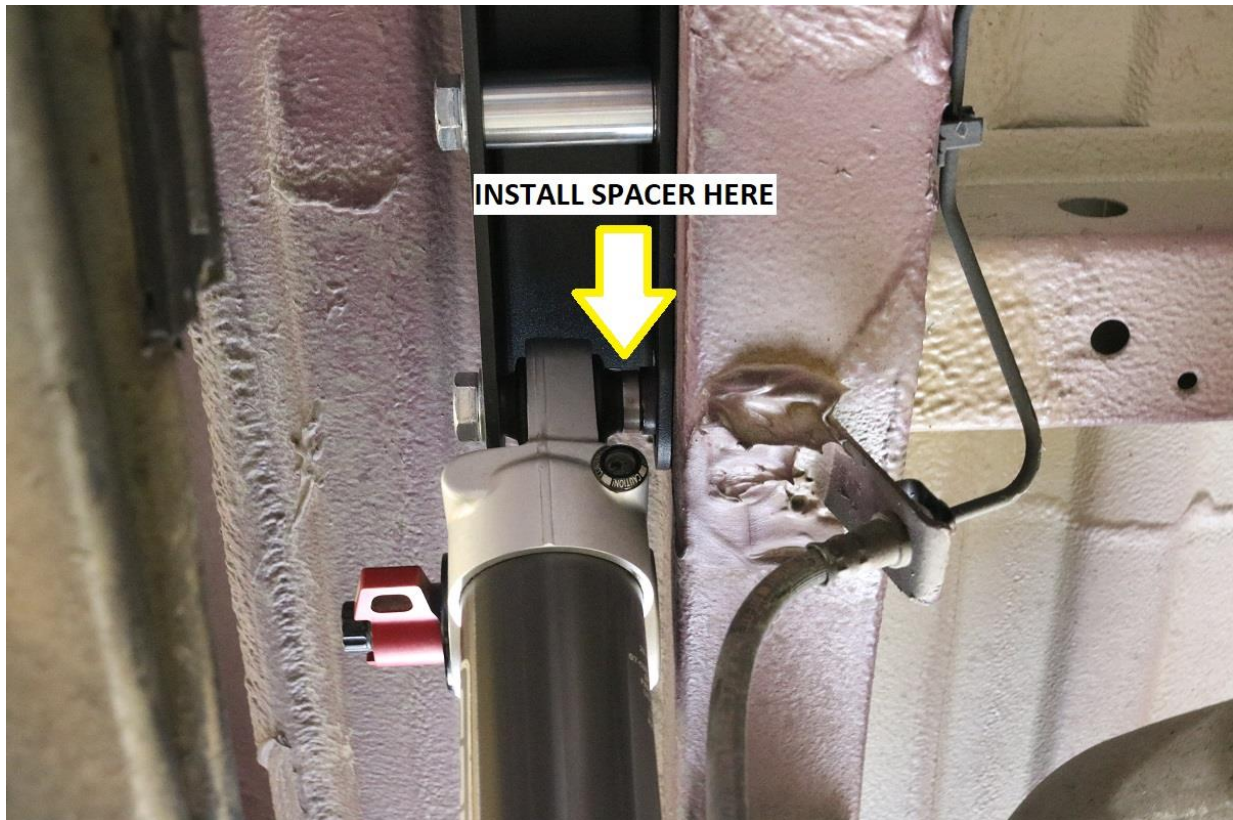
- 9) Install the forward M10-1.50 x 25mm long bolts. Use a washer under the bolt head and nylock nut on the back side. Simply start the bolts, do not tighten at this time.
- 10) Install the M14-2.0 x 160mm long bolt through the shock bung spacer. Fit the included M14-2.0 stover nut on the inside of the chassis. Again, be sure to use a washer under the bolt head and stover nut. You can snug the bolt but do not fully tighten at this time. Use a 22mm socket / wrench for tightening.



- 11) Take note of the upper bushings equipped in the Falcon shock. If an offset bushing is fitted to the shock as shown below, then simply install the shock as is with the long offset towards the inside of the vehicle.



- 12) If the shocks does not have an offset bushing as shown above. Install the included stainless shock spacer between the chassis and shock. See image below for reference.



- 13) Put a dab of Red Loctite on the included upper shock bolt. Again, be sure to use a washer under the bolt head. Snug bolt using a 22mm socket / wrench just to where the washer under the bolt head cannot spin.
- 14) All the hardware is started at this time. Now fully torque hardware in the following order:
  - a. Shock bung spacer bolt – 22mm socket / wrench – 100 ft-lbs (135 Nm)
  - b. Shock bolt – 22mm socket – 100 ft-lbs (135 Nm)
  - c. Forward shock bracket bolts – 17mm socket / wrench – 42 ft-lbs (57 Nm)
- 15) Install the OEM lower shock bolt. Torque to 80 ft-lbs (108 N.m) using an 18mm socket / wrench.
- 16) Re-install wheels / tires and lower van to ground. Torque bolts according to manufacturer's recommendations.
- 17) Re-check all bolt torques 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.