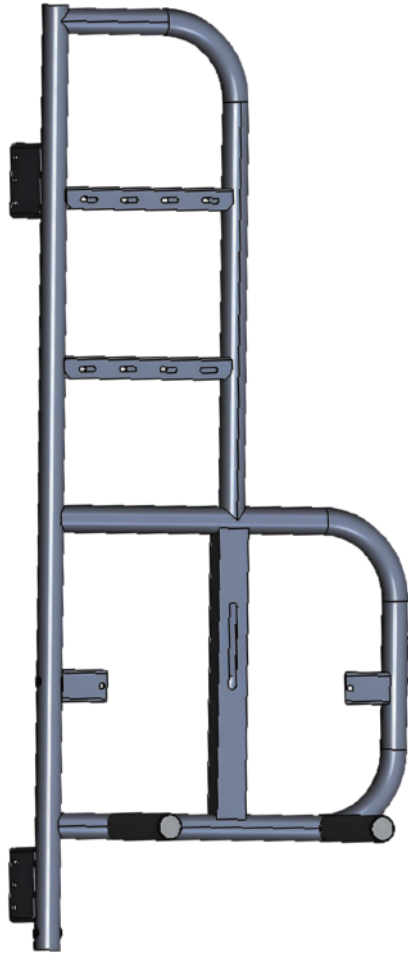


WTA



Installation Guide

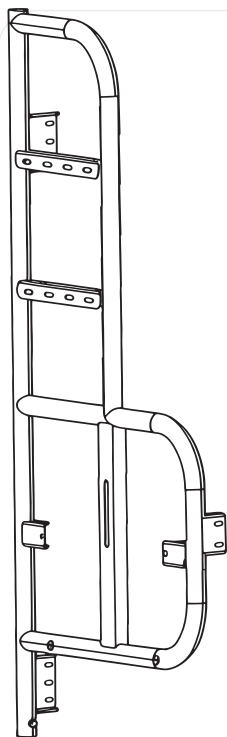


TRANSIT TIRE CARRIER LADDER

It is crucial to ensure that all WTA products are assembled and securely attached to your vehicle. Failure to do so may result in automobile accidents, posing a significant risk of bodily injury or even death to yourself and others. As the owner, it is your responsibility to properly assemble and secure WTA products, diligently inspecting the mounting points and attachments before use, and regularly checking for any signs of wear or damage.

To guarantee optimal safety, we strongly advise engaging the services of a professional installer for the installation of any aftermarket accessories to your vehicle. If you lack mechanical experience or are unfamiliar with the installation procedures, it is imperative to have the product installed by a qualified professional or individuals who possess the necessary expertise. Remember, the responsibility lies with you, and it must be taken seriously to ensure the safety of all individuals involved.

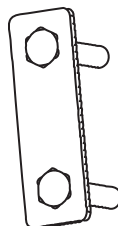
PACKAGE CONTENTS



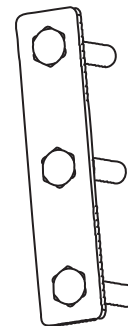
MAIN FRAME
QTY: 1



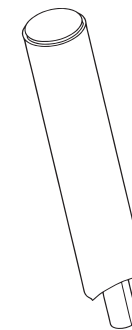
HINGE SPACER
QTY: 4



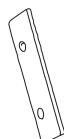
DOUBLE BOLT PLATE
QTY: 1



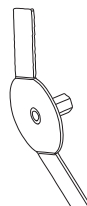
TRIPLE BOLT PLATE
QTY: 2



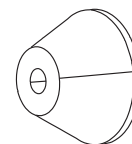
TIRE POST
QTY: 2



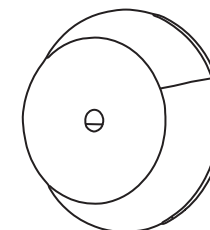
RUBBER GASKET
QTY: 1



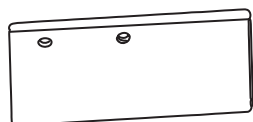
TIRE HANDLE
QTY: 1



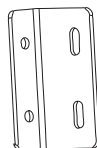
SMALL TIRE CONE
QTY: 1



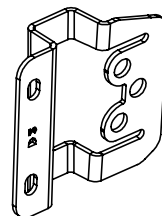
LARGE TIRE CONE
QTY: 1



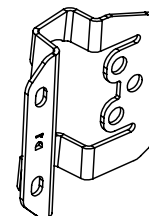
DRILL TROUGH PLATE
QTY: 1



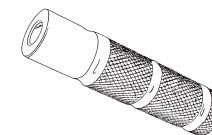
FRAME BRACE
QTY: 1



LOWER HINGE BRACKET
QTY: 1

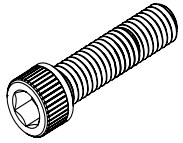


UPPER HINGE BRACKET
QTY: 1



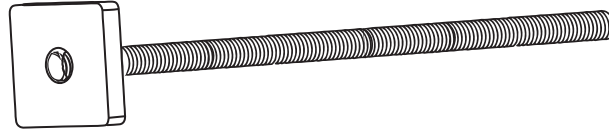
FOOT PEGS
QTY: 2

HARDWARE



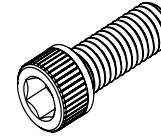
**M8 X 50mm SOCKET
HEAD HEX DRIVE SCREW**

QTY:2



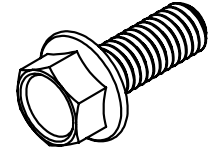
**M14 THREADED
ROD**

QTY:1



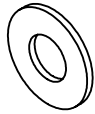
**M8 X 35mm SOCKET
HEAD HEX DRIVE SCREW**

QTY:2



**M8 X 35mm FLANGED
HEX HEAD SCREW**

QTY:6



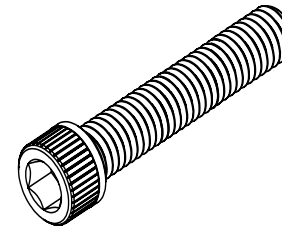
M8 FLAT WASHER

QTY:12



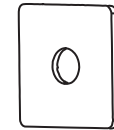
M14 FLAT WASHER

QTY:1



**M12X80 SOCKET HEAD
HEX DRIVE SCREW**

QTY:2



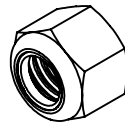
SQUARE WASHER

QTY:1



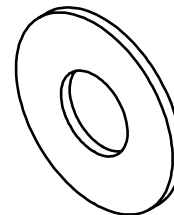
M8 NYLON LOCKNUT

QTY:10



M14 NYLON LOCKNUT

QTY:1



M12 FLAT WASHER

QTY:2

INSTALL

STEP | 01 LAYOUT AND INSTALL PREP

1.1 Door Panel Removal: Remove the Lower Panel Trim (FIG 1) using plastic panel removal tools. Be gentle to avoid breaking the factory panel clips. If clips get stuck in the door, pop them out and slide them back into place on the trim panel.

1.2 Vapor Barrier: Peel back the top left corner of the factory vapor barrier (FIG 2), keeping the adhesive intact for easier reinstallation.

NOTE- You may have any number of different door configurations- stock full trim, stock half trim, stock panel (Pictured FIG 1), upholstered wood, etc. Each require their own removal method.

NOTE- Sometimes the clips will get stuck in the door. If you need to do is pop them out and slide them back in to their location on the trim panel.

DISCLAIMER

Installing the tire carrier may limit your ability to open the driver side rear door past 90° without the tire carrier making contact with your van. Please be advised to use care when opening the door past 90° and determine if and at what angle could that carrier contact the side of the van.



STEP | 02 HINGE BRACKET INSTALL

NOTE: Please use a friend to hold the door in place this install is best done as a two person job.

2.1 Remove the bolts holding the lower door hinge in place. Get the Lower Hinge Bracket ready for the next step. (FIG 3).

2.2a Thread the Lower Hinge through the hole in the **Lower Hinge Bracket**. It helps to close the hinge slightly to increase the gap between the hinge and the door this will allow the **Lower Hinge Bracket** to move into place more easily. Once the hinge bracket is over the hinge and aligned you may install the optional spacers depending on what hinge you have and how the hinge bracket is sitting against the door you want only a small gap between the door and bracket, you do not want the bracket deformed against the edge of the door and you likewise do not want a large gap that would cause it to interact with the body of the van when closing. (FIG 4).

2.2b If your Transit has 180° hinges, be sure to utilize the hinge spacers between the hinge and hinge brackets. When using the spacers we recommend switching out the hardware to the included **M8x35mm bolts** and **M8 washers**. (FIG 5).

2.3 Reinstall the factory bolts snugly (or our hardware if using the 180 hinges) , then check clearances by slowly closing the door before tightening the bolts (FIG 6).

NOTE - *Some adjustment may be needed to properly seat the bracket on top of the hinge.*

2.4 Repeat the process for the upper hinge with the **Upper Hinge Bracket**. Ensure the door is supported to prevent twisting during hinge removal. After installing the **Upper Hinge Bracket**, test door function to ensure there is no contact with the van's body during operation.



FIG:3



FIG:4



FIG:5



FIG:6

STEP |03 ALIGN CARRIER

3.1 Hinge Mounts: With assistance, raise the carrier up to the door and use the Triple Bolt Plate and M8 nuts to secure the Rack onto the top and bottom Hinge Brackets. (Just finger tight is okay, we will remove them shortly)

3.2 Thread the Double Bolt Plate through the Drill Through Bracket and the two holes on the Tire Carrier/ Ladder Rack. Then using two M8 nuts and washers, lightly tighten to aid the alignment (**FIG 9**).

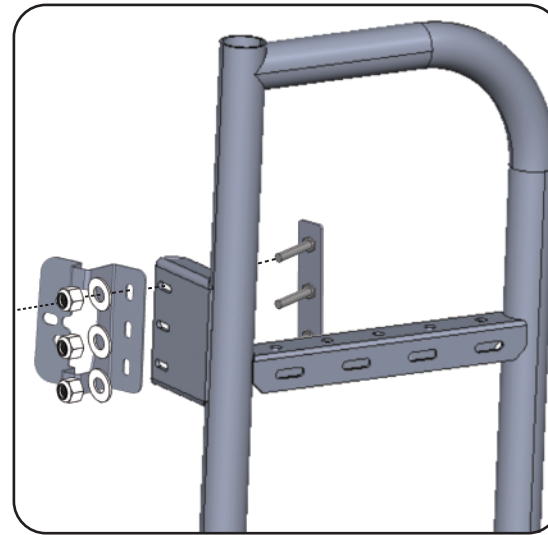


FIG 7

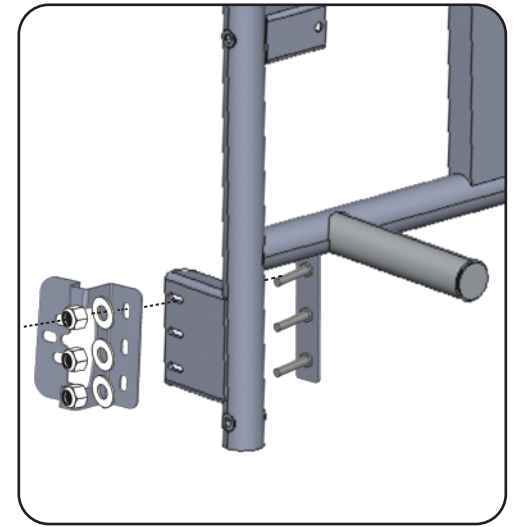


FIG 8

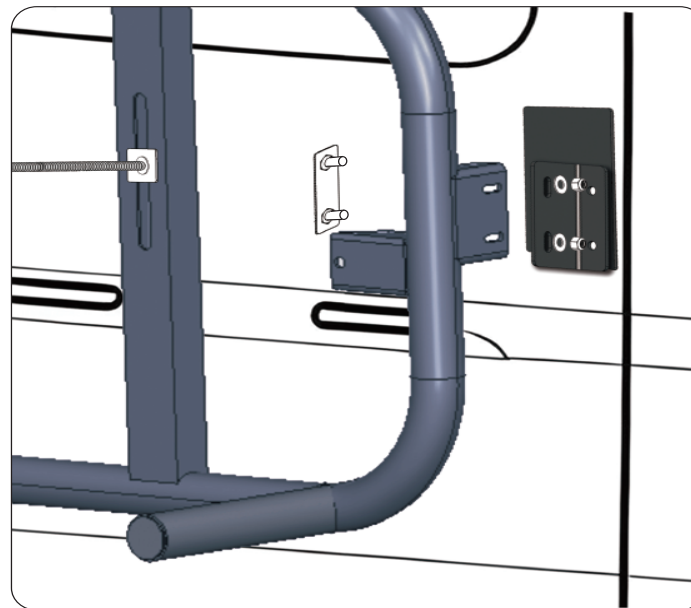


FIG9

STEP | 04 DRILL FOR THIRD MOUNT

4.1 Marking the Door Drill Location: Now that the ladder/tire carrier frame is in place we can shift it and find the optimum location for drilling the holes into the door. us a pen that will mark and be visible on the surface of the paint to mark the location to drill. We try to line up the drill through bracket just above where the door bends outward. (FIG 10)

4.2 Remove the Ladder/Tire Carrier Frame: Follow the same steps from **Step 3** in reverse, it is always recommended to have a friend helping hold the frame as the screws are removed. (FIG 12)

4.3 Drilling the holes: Now that the frame has been removed and the holes are clearly marked you can move on to drilling the holes,

PRO TIP: We recommend using a center punch in the middle of each of the two marks to prevent the drill bit from walking.

you will drill through two layers of steel and some foam material in between, this may be different if your van has been modified and please remove any aftermarket insulation from inside the door so it doesn't get caught in the drill bit. Start by drilling two 8.5mm holes at the marked locations and be sure to go through both layers of metal. (FIG 11)

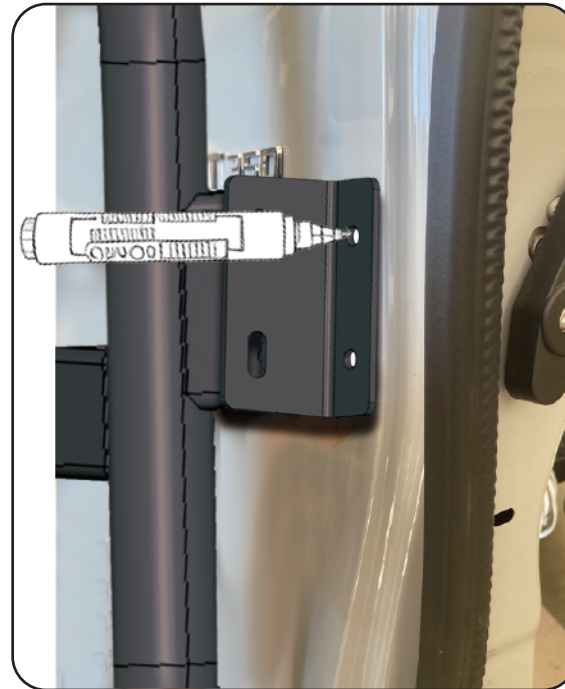


FIG:10

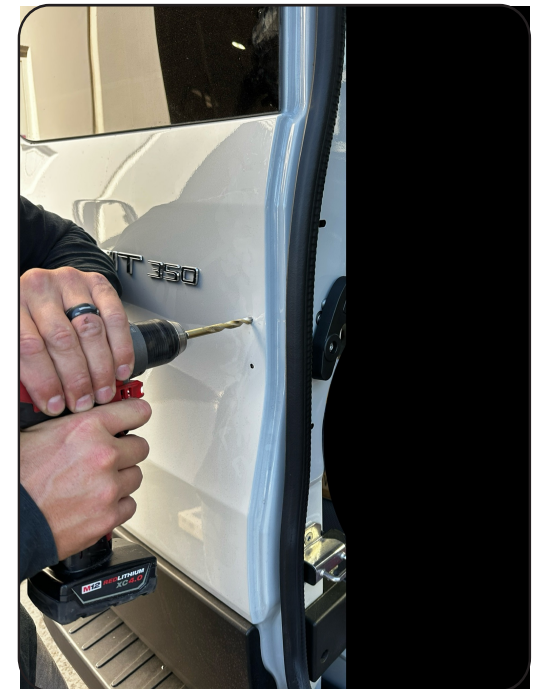


FIG:11



FIG:12

STEP | 05 ATTACH THIRD MOUNT

5.1 Attaching the door plate and bracket: Place two **M8-35mm** bolts through the **Frame Brace** then the **Rubber Gasket**, then into the **Drill Through plate** and finally slide the screws with this assembly into the holes you just drilled in the door. As seen in **(FIG 13)**

5.2 Inside of the Door: on the inside of the door place one **M8 Washer** and one **M8 Nylock Nut** on each of the two exposed screws (loosely tighten then for now) **(FIG 14)**



FIG:13

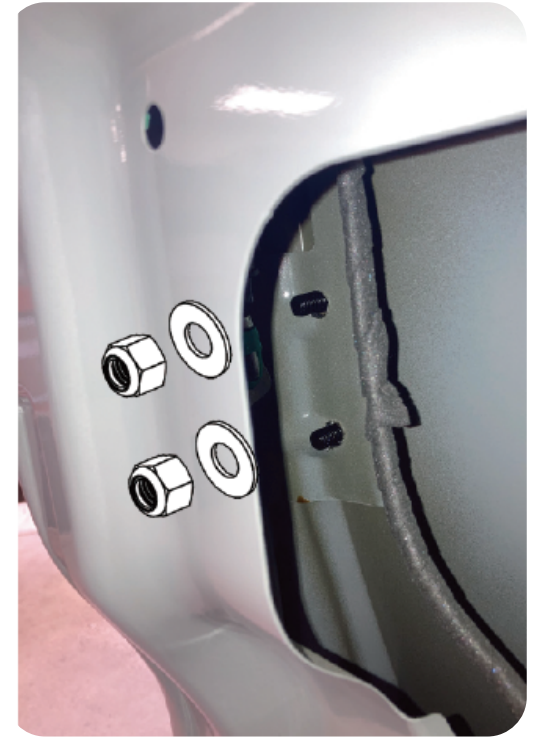


FIG:14

STEP | 06 CARRIER ASSEMBLY

6.1 Assemble the Tire Carrier: Slide the **Square Washer** down the **M14 Threaded Rod** then place the rod through the **Tire Carrier Frame** using an **M14 washer** and **M14 Nylock Nut** to hold it in place. You will utilize a **22mm Open end or Box Wrench** to tighten it down. (**FIG 15**)

*The height is adjustable to suit your specific wheel setup.

Note: you are only tightening it down till its snug it should still be able to slide up and down with a little effort.

6.2 Tire Post: the two Tire Post attache to the two lower holes on the carrier frame. Each post will utilize one M12-80 Socket Head Bolt. you will tighten them down till they don't move when wiggled with force. (**FIG 16**)

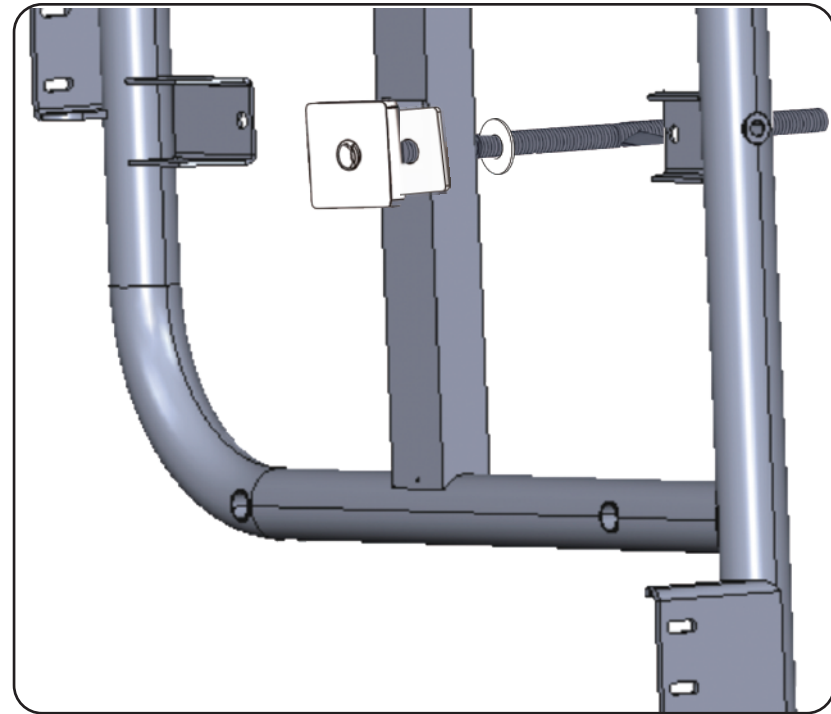


FIG:15

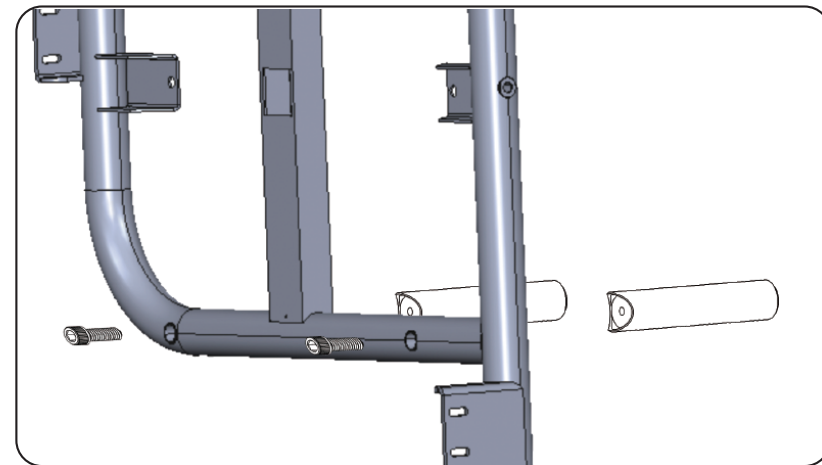


FIG:16

STEP |07 SECURE CARRIER

7.1 Now that everything is installed on the carrier frame we need to reinstall the fame, This time for the final time!

7.2 **Hinge Mounts:** With assistance, raise the carrier up to the door and use the **Triple Bolt Plate** and **M8 Nylock Nuts** to secure the Rack onto the top and bottom Hinge Brackets. (**FIG 17 &18**) (only loosely tighten still)

7.3 **The Third mount:** Thread the Double Bolt Plate through the Drill Through Bracket and the two holes on the Tire Carrier/Ladder Rack. Then using two M8 nuts and washers, lightly tighten to aid the alignment (**FIG 19**).

7.4 Check alignment of the rack and make sure everything is where you want it, at this point you can make any small adjustments to angles and bracket positions. Once everything is looking good go through and start tightening down all the bolts. Go through every nut and bolt to make sure they are all tightened.

Note: I like to start with one nut on the top hinge then move inside the door and work my way to the third mount then back over to the bottom hinge and back up to the last two nuts on the top hinge.

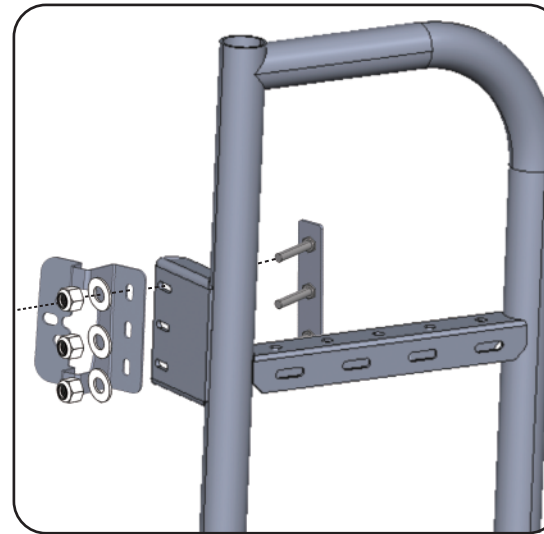


FIG:17

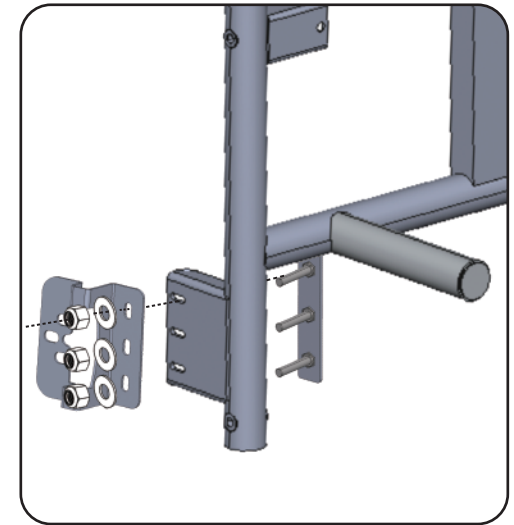


FIG:18

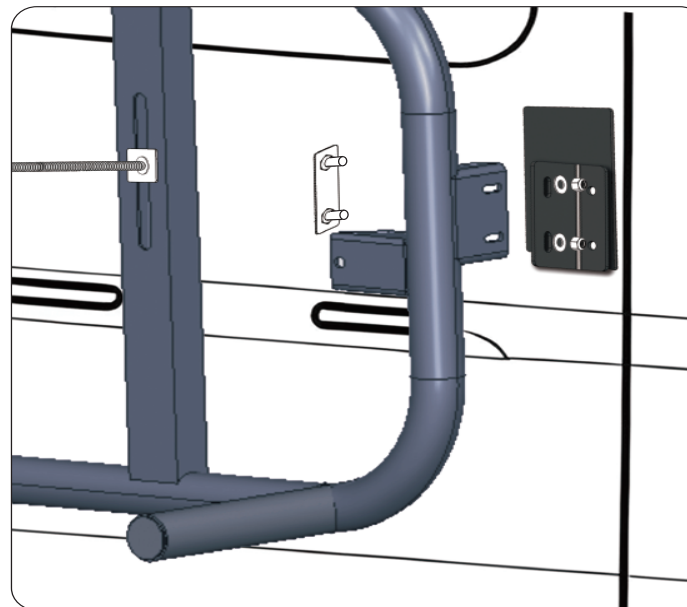


FIG:19

STEP | 08 ATTACH WHEEL

8.1 Determine Mounting Configuration: If using an **Aftermarket Wheel** with a *different offset* than the **Factory Wheel**, you may need to screw the **Tire Handle** further down the threaded rod to fully secure the tire.

8.2 Attach the Wheel: Lift your wheel onto the carrier and adjust the height of the **Threaded Rod** to be centered in the wheel. Remove the wheel and tighten down the **M14 Nylock Nut** to be firm so it doesn't move up and down but over tightening is not needed as the load in being pulled outward and little load is trying to move it up and down. The wheel can now be installed again and the appropriate **Tire Cone** used slide down the **Threaded Rod** and into the center of the rim, you will follow the **Tire Cone** with the **Tire Handle** and thread that down the rod until it is tight, pushing the Tire into the frame of the Carrier and the Cone evenly seated in the wheel. (FIG 20).

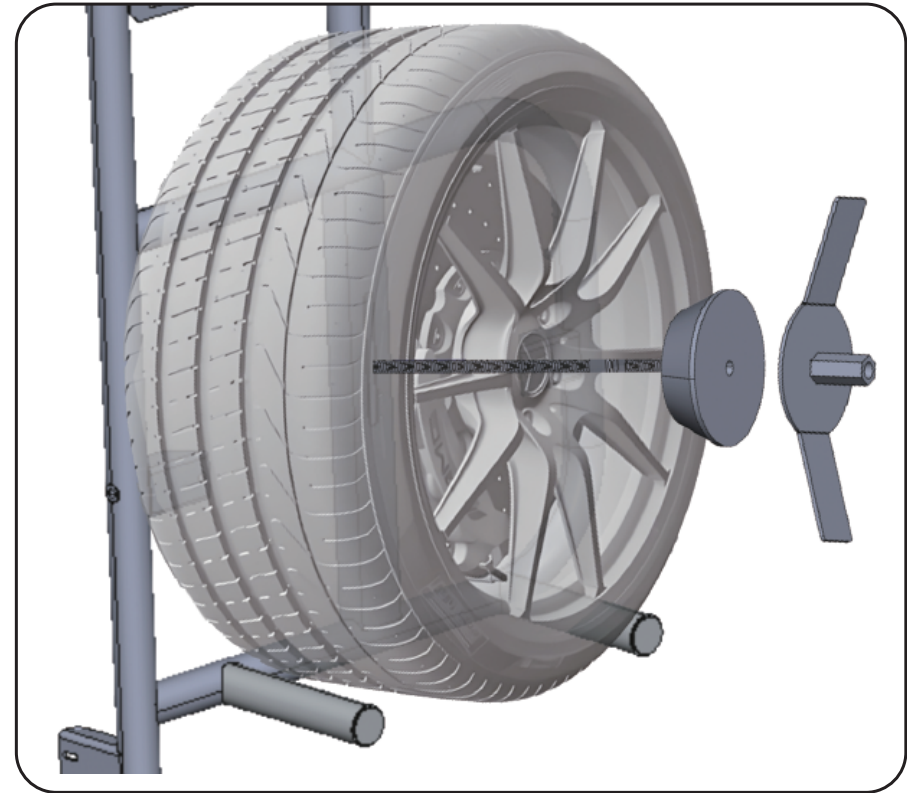


FIG:20

STEP | 09 FOOT PEGS

9.1 Foot Pegs: Use one M8 x 50mm Socket Head Bolt to secure each peg at each location shown (**FIG 21**). You should be able to use your hand on the peg and tighten on to the bolt using an 6MM Allen wrench to hold the bolt. if your hand is not enough you can use a soft grip plumbers wrench or other non marring pliers.

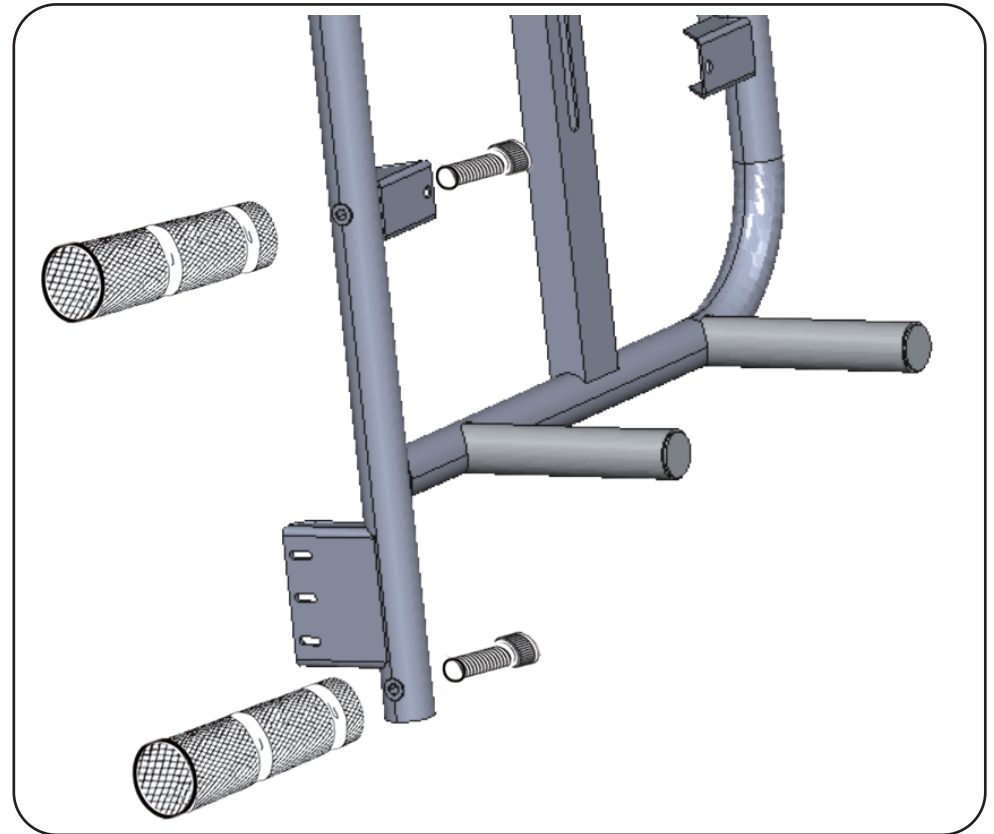


FIG:21

GET THERE WITH WHITE TOP ADVENTURES



thanks!



info@whitetopadventures.com