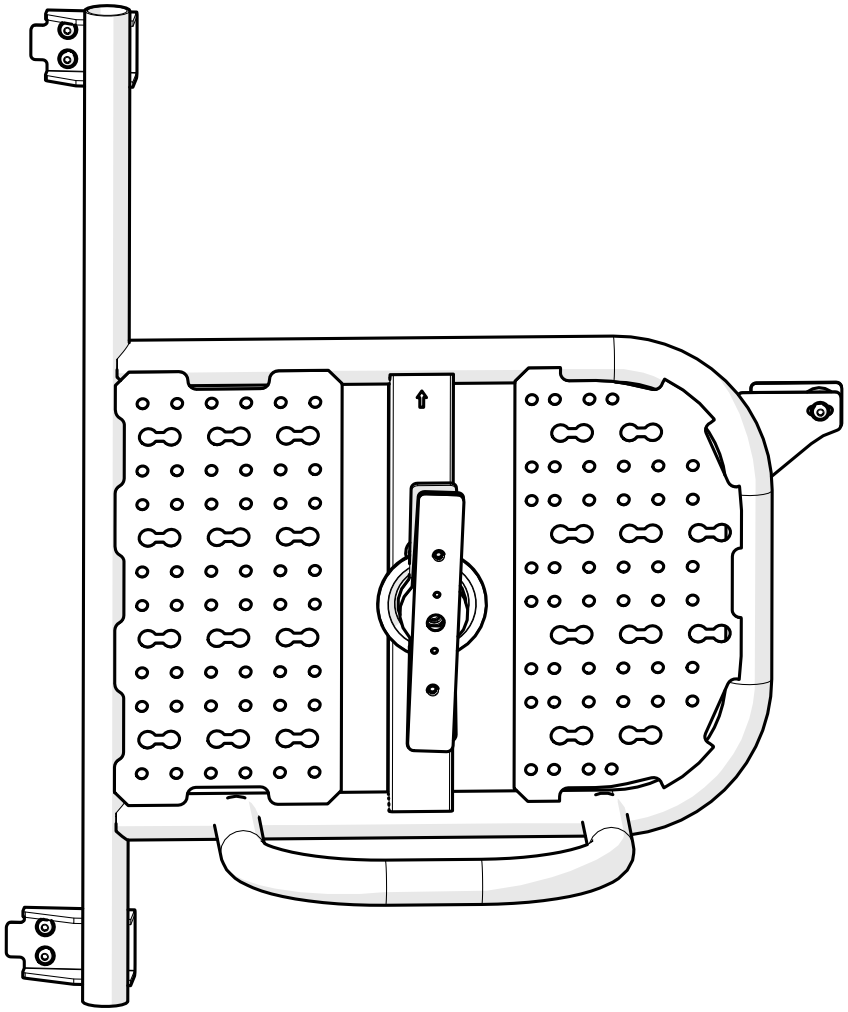
# WTA

## Installation Guide

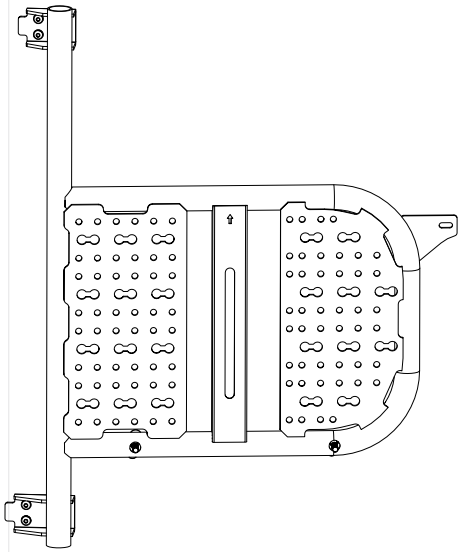


# Sprinter Rear Tire Carrier

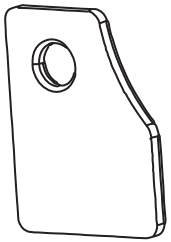
It is crucial to ensure that all WTA products are assembled and securely attached to your vehicle. Failure to do so may result in automobile accidents, posing a significant risk of bodily injury or even death to yourself and others. As the owner, it is your responsibility to properly assemble and secure 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.

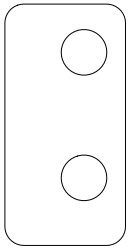
# PACKAGE CONTENTS



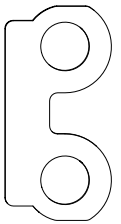
**DOOR FRAME**
QTY: 1



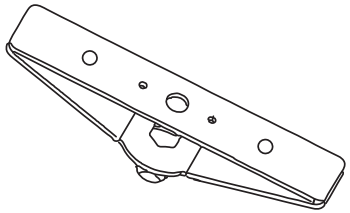
**DOOR MOUNTING PLATE**
QTY: 1



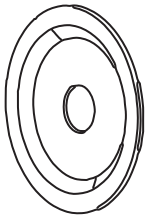
**LOWER HINGE BACKING PLATE**
QTY: 1



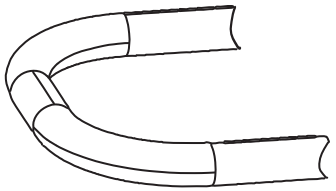
**UPPER HINGE BACKING PLATE**
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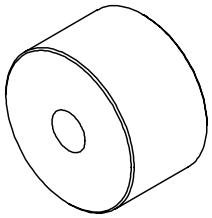
**TIRE HANDLE**
QTY: 1



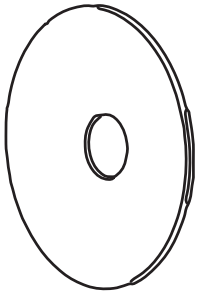
**RUBBER WHEEL BUSHING**
QTY: 1



**TIRE SUPPORT LOOP**
QTY: 1



**FRAME TO DOOR BUSHING**
QTY: 1

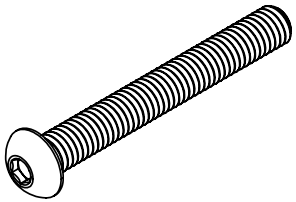


**LARGER NYLON WHEEL BUSHING**
QTY: 1



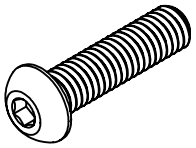
**FOOT PEG**
QTY: 2

# HARDWARE



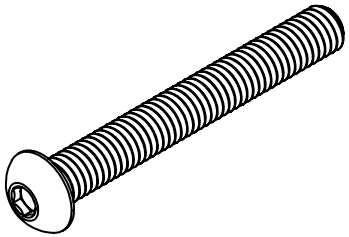
**M10*65 BUTTON HEAD HEX DRIVE SCREW**

QTY: 1



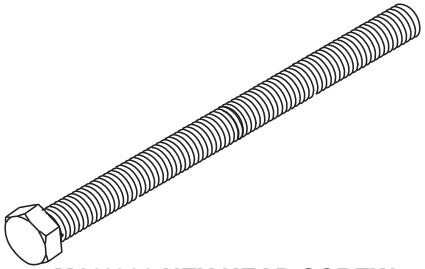
**M10*30 BUTTON HEAD SCREW**

QTY: 4



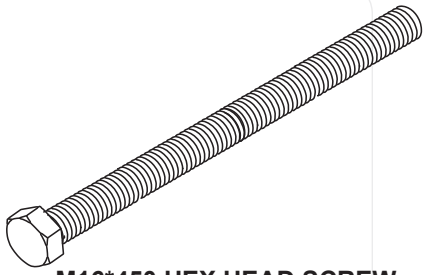
**M10*80 BUTTON HEAD HEX DRIVE SCREW**

QTY: 2



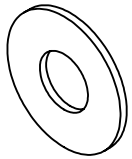
**M16*300 HEX HEAD SCREW**

QTY: 1



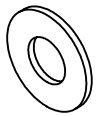
**M16*450 HEX HEAD SCREW**

QTY: 1



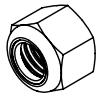
**M16 FLAT WASHER**

QTY: 2



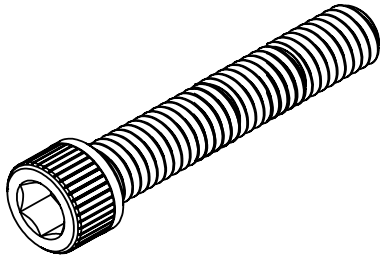
**M10 FLAT WASHER**

QTY:/ .



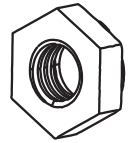
**M10 NYLON LOCKNUT**

QTY: 3



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

QTY:3



**M16 HEX HEAD NUT**

QTY: 1

# INSTALL

## STEP | 01 LAYOUT AND INSTALL PREP

**1.1 Door Panel Removal:** If applicable, start by removing the lower interior door panel **(FIG 1)** and any obstructions in the area shown in **FIG 2** (wires, insulation, etc.). We recommend using plastic panel removal tools (easily found at harbor freight or similar). Be gentle when prying as to not break the factory panel clips. Once you get the first few popped you should be able to pull it the rest of the way with your hands.

**NOTE-** *You may have any number of different door configurations- stock full trim **(Pictured FIG 1)**, stock half trim, stock panel, upholstered wood, etc. Each require their own removal method. Please note that the panel-style trimmed door requires additional drilling **(See Step 2.5).***

**NOTE -** *This product is compatible with 2019 and newer vans with 180-degree rear door hinges. If your van has 270-degree hinges, you'll need to have them swapped out for 180-degree hinges. You can find them available purchase.*

**NOTE -** *You may need to migrate the factory rubber bump stop from your original hinges to your new 180-degree hinges.*

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




FIG 1

*FULL STOCK TRIM




FIG 2

## STEP | 02 DRILL THIRD MOUNT

2.1 Template Marking: Align the door mounting plate with the van's body lines and mark the spot as shown in FIG 3 .

2.2 Pilot Hole: Drill a pilot hole through the first and second layers of metal using a M5 Drill Bit (FIG 4).

2.3 Drilling Steps: Drill through all with a M10 Drill Bit (FIG 5).

2.4 Drill Out Outer Sheet metal: Use a Step Bit to drill the outside hole to 20mm to fit the Door Mounting Boss (do not install yet).

PRO-TIP: *We like to mark the step bit as shown in (FIG 6) to avoid drilling too far.*

2.5 Panel Style Door Trim (If Applicable): If you have the panel style door trim, drill through again using a step bit or similar sized bit that is long enough to reach the sheet metal on the backside. Drill the inside hole out to 28mm

NOTE - This hole is sized to fit a 18mm deep socket to make fastening easier.

2.6 We recommend using a rust inhibiting paint to touch up all exposed metal surfaces.

2.7 installing the Door Mounting Plate: Wipe the surface of the pant with alcohol or some cleaner that does not leave a residue (this will prep the surface for the adhesive) remove the protective backing from the 3m VHB tape on the back of the plate and align the plate as before with the top edge and curvature of the door, the bung on the plate should align with the hole you drilled in the door apply some pressure to make sure the adhesive has good contact.



FIG 3



FIG 4



FIG 5



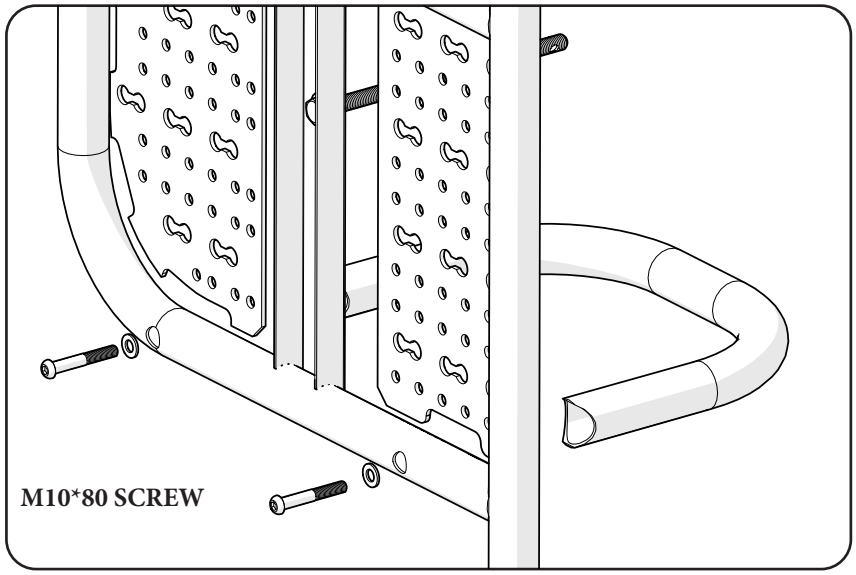

FIG 6

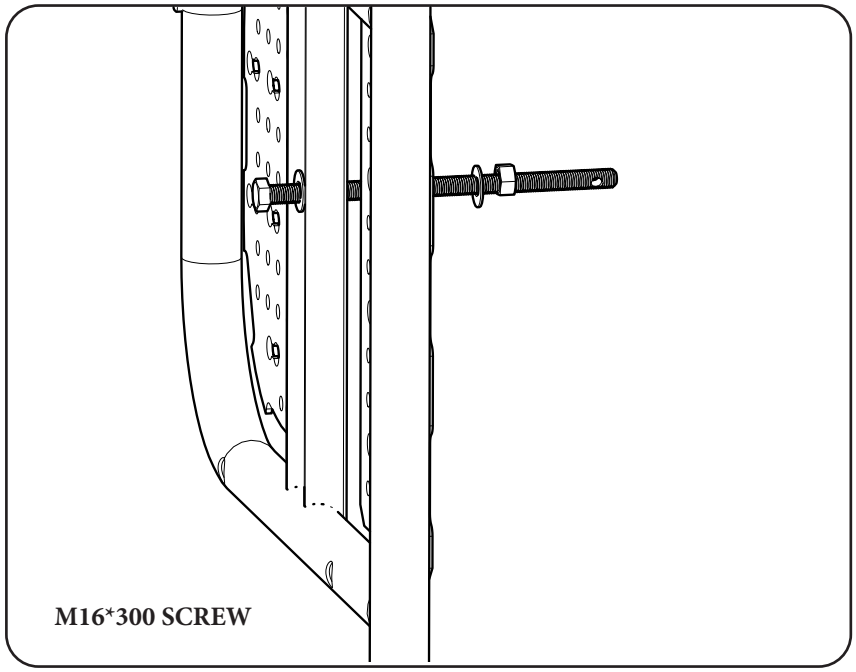
## STEP | 03 BRACKET ASSEMBLY

**3.1 Assemble the Tire Carrier:** Attach the Wheel Support loop to the tire carrier frame using: **(2) M10 - 80mm socket head bolts** with a **10mm Allen Wrench.**

**3.2 Wheel center Lock Rod:** Find the large **M16 - 300mm** or **M16 - 450mm** (if you have a dually or need for a longer bolt) **hex head bolt** slide one **M16 Washer** down the length, insert assembly from the back of the tire carrier as shown in Figure 7, slide the second **M16 Washer** down the length followed by the **M16 Nut**. Use a 24mm socket or wrench to hold the bolt and a similar 24mm wrench to tighten down the nut. At this point you can place the wheel on the carrier to properly adjust the height of the lock rod before finally tightening it down. The depth is adjustable to suit your specific wheel setup.

**Optional:** If you are intending to mount a box instead of a tire in this location the **Wheel Center Lock Rod** is not needed.



## STEP | 04 VAN MOUNTS

**4.1 Hinge Backing Plates:** Grab both hinge backing plates, **(4) M10-25mm- Hex Drive Button Head Screws, (4) M10 Washers, (4) M10 Nylock Nuts**. Place the hinge backing plates into the back of your 180 hinges as shown in **FIG 9** and **FIG 10** With the bolts facing out of the hinge.

**PRO-TIP:** Use an double sided adhesive tape to hold the backing plate in the back of the hinge

4.2 **Placing the rack:** With the hinge backing plates in place (with a friend holding them and the door to prevent them from moving or the tape holding them in place with the door closed) move the assembled tire carrier into place aligning the top holes with the protruding screws in the hinge, install one washer and Nut up top then align the lower hinge and install the second washer and Nut on the bottom. At this point you can install the third washer and Nut, this should complete the lower hinge before moving back to the top and installing the last of the four sets.

**NOTE:** leave the screws loose for now (allow the rack to move/shift)

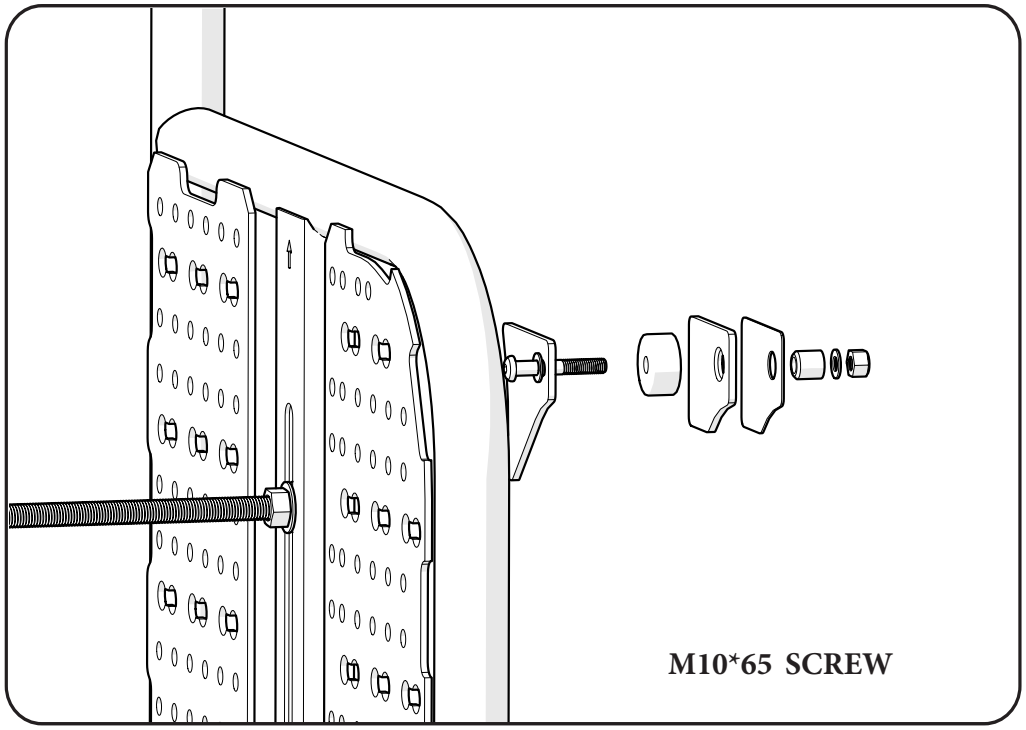
**4.2 Bushing Assembly, for Third Mount:** Gather **M10-65mm Button Head Hex Drive Screw, M10 Nut, Frame to Door Bushing** and **two M10 Washers** and assemble everything onto the carrier as shown in **FIG 11.** *the plate shown should already be installed on the door.* one **M10 Washers** and **M10 Nut** are placed on a **18mm socket** and screwed onto the Bolt from the other side of the door (through the 28mm hole)

*PRO-TIP: Use an double sided adhesive tape to hold the washer and nut to the socket to prevent it from falling in the door.*









## STEP | 05 SECURE CARRIER

**5.1 Alignment Hinge:** With the assembled carrier loosely attached to the door, Align the tire carrier with the door/ window body lines. Open the door to ensure the door stop on the lower hinge bracket engages the factory bump stop. Tighten all fasteners on the hinges

**5.2 Alignment Door Mount:** With the Hinges Tightened and the third mount (door mount) installed, you can now tighten down the bolt through the door. please make sure not to over-tighten this bolt (look at the bushing if there is slop/movement you can tighten it more, if it is bulging you can back it off.

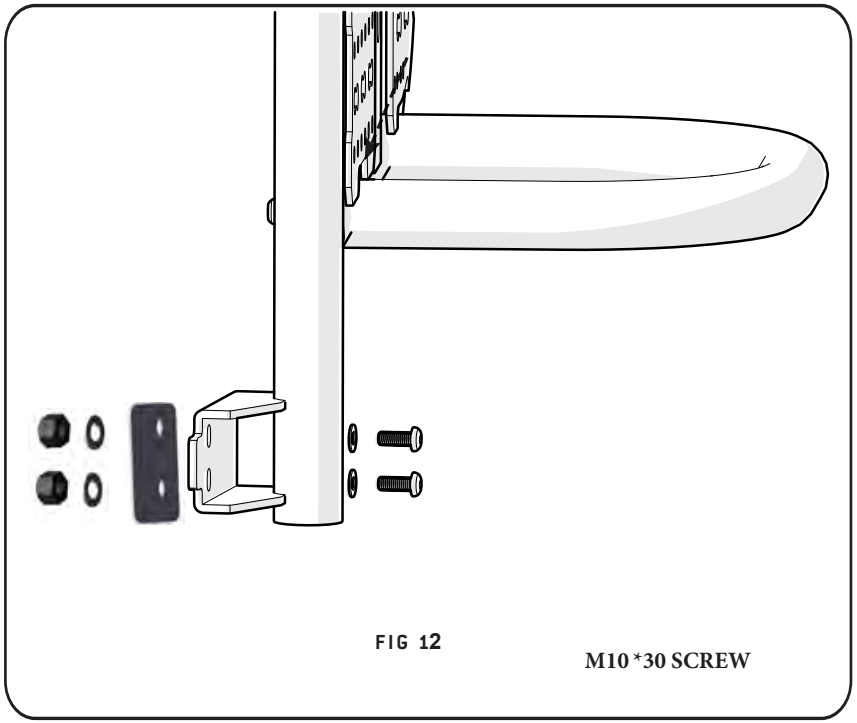
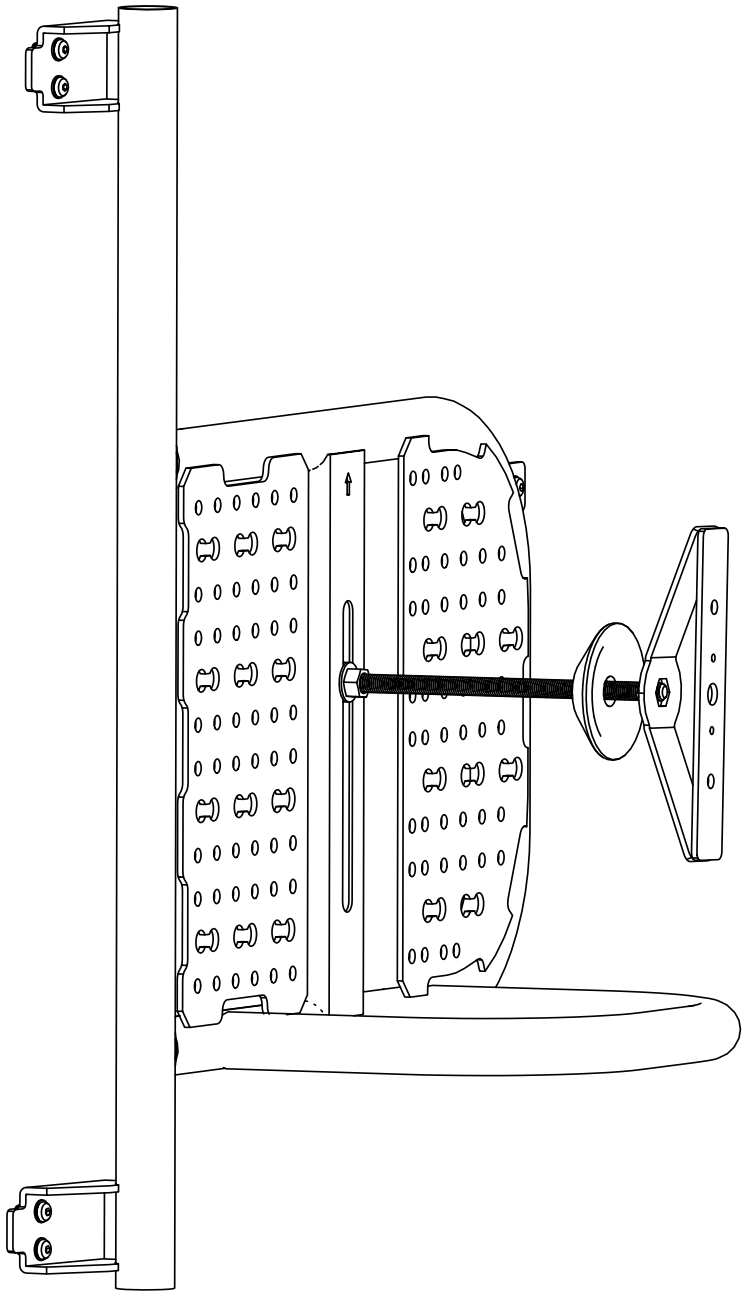



FIG 12

## STEP | 06 ATTACH WHEEL

**6.1 Attach the Wheel:** Lift your wheel onto the carrier and adjust the height of the center bolt to be centered in the resting wheel, once centered you may tighten the bolt down.

6.2 now that the bolt is in the center of the wheel and the wheel is back in place you may slide the rubber wheel bushing or larger vinyl bushing if you don't have a standard hub size onto the center bolt and tighten it down with the Tire handle **(FIG 14)**.



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