

Material List CycleSimplex Simple Load Two Bike Rack v7.0 9/23/24		
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CycleSimplex Bike Rack Assembly Instructions

Simple Load Two Bike Rack V7.0

Precautionary and Maintenance Information:

Caution: There are sharp edges. Wear gloves during assembly so as not to harm yourself

All straps must be used at all times.

When you are not carrying trike(s)/bike(s), you can either leave the straps attached through the slots or remove them. If you leave the straps on the rack, they should be connected just as they would with the trike or bike on the rack, otherwise they may be lost.

There is always some flex in metal. Because of this you should check and tighten bolts before each use.

You should check the straps for wear before each use and replace if they show any wear.

This trike or bike rack will extend quite a distance behind your vehicle. Caution must be used not to “bottom out” on sharp dips or rises in your path. Your rack or trike(s)/bike(s) may also extend beyond the sides of your vehicle so caution is required not to hit the rack or your trike(s)/bike(s) on other objects.

Simple Load Two Bike Rack v7.0



(4) Bike V-Tray, 32" long with 4 Holes



Tilt Up for One Trike and One Bike rack



Tilt Insert (May be 2" or 1.25" square)



L-Bracket



Tilt Mechanism Sides

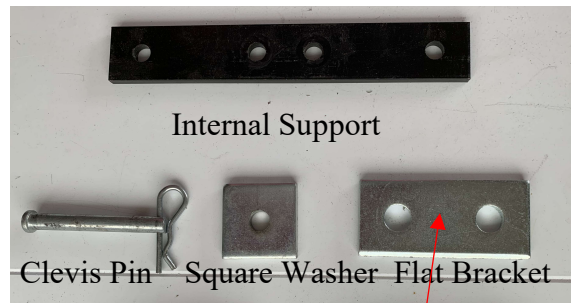


(2) Bike Channel, 38", steel

(2) Bike Vertical Top and Bottom, 24", aluminum



Corner Bracket



You will have (2) 3 hole flat bracket

You may not have all of these



Add a picture of a lock nut with a hole bolt

Figure 1: The strut channel comes in various sizes. When we describe something as strut channel, it will look like the following with 3” long slots in the bottom:

When attaching components to strut channel, it is critical that all Channel Nut Assemblies must be tightened with the channel nut under the rail as shown below. The grooves in the channel nut must be up and under the rail of the strut channel. Your channel nut will not have a spring under it.

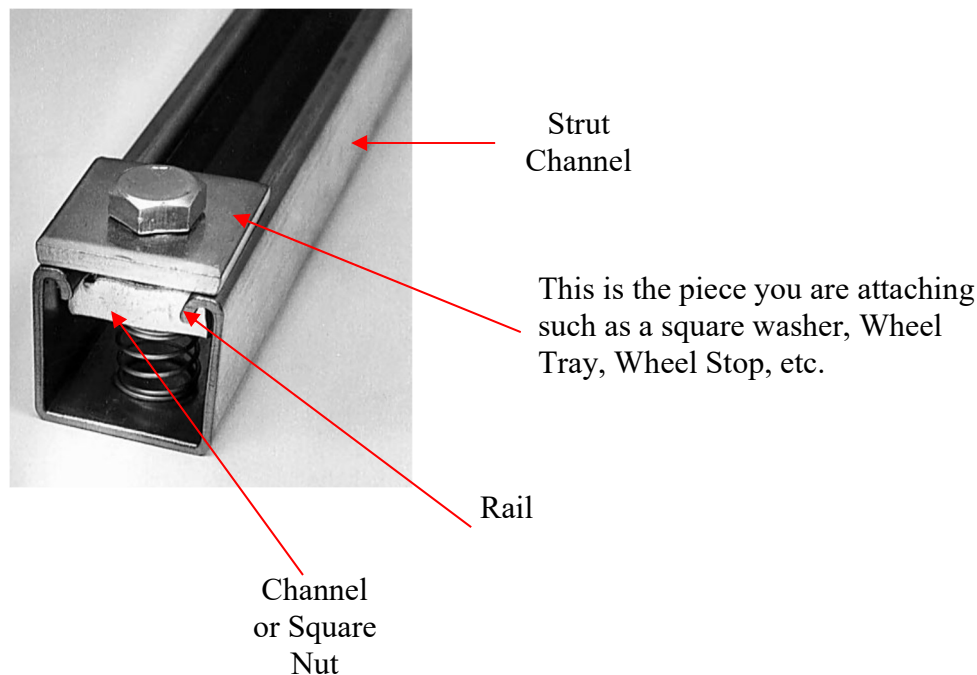
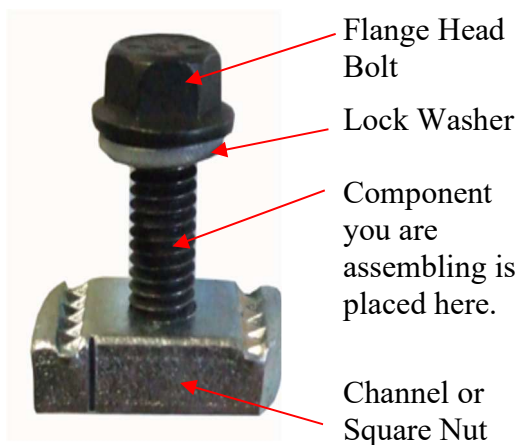


Figure 2: All Bolts requiring a Channel or Square Nut must be assembled in the following fashion. This is a Bolt and Channel or Square Nut Assembly. This does not come as an assembled part. You have to assemble each as required in the instructions.



Step 1: Assemble Tilt Mechanism Sides, Tilt Up and Tilt Insert as shown in the picture below

If you have a 1.25" rack, do Step 2A. If you have a 2" rack, you will not use the Shims.

Step 1A

Place the two Shims on each side of the Tilt Insert so that they are over the two holes in the Tilt Insert. Pass the two 3/8" x 3" black Flange Head bolts through the two holes C and D in the bottom of the Tilt Sides, then the Shim, the Tilt Insert, the other Shim and the other Tilt Side (the shorter distance from Hole B to Hole C should be toward the bottom of the Tilt Sides). Place a 3/8" round silver washer and 3/8" self-locking nut on the end of the two bolts. Finger tighten. Do not tighten all the way yet.

Pass a 3/8" x 3" black flange head bolt through the Tilt Sides and the Tilt Up in Hole A. Place a 3/8" round silver washer and 3/8" self-locking nut on the end of this bolt. Finger tighten the nut.

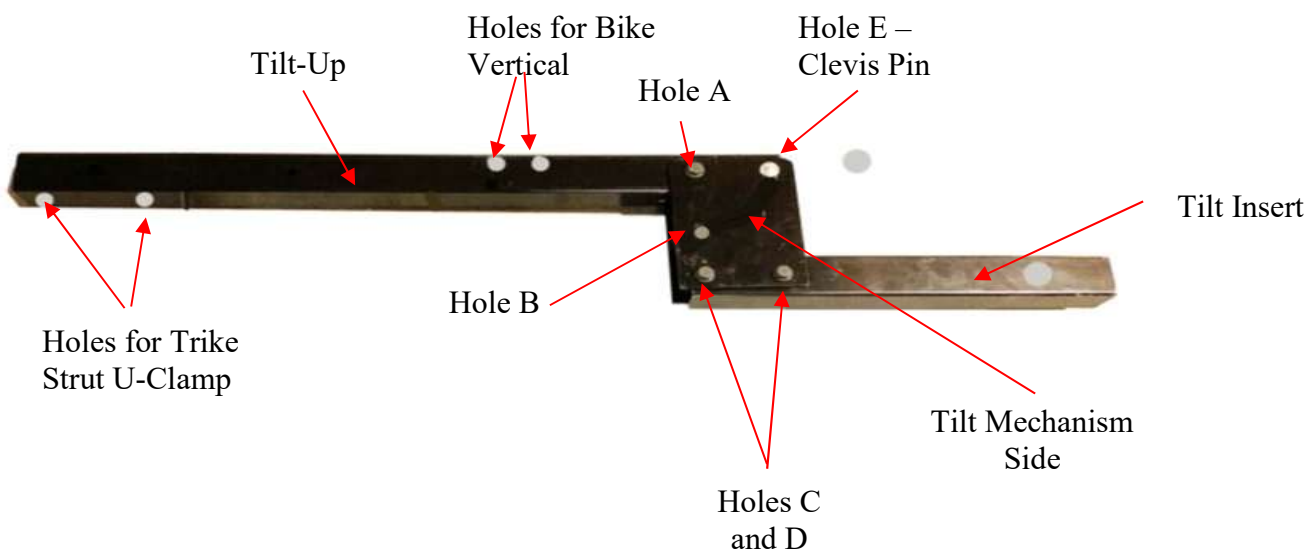
Pass the Clevis Pin through Hole E. Insert the Hair Pin into the hole in the end of the Clevis Pin. When you tilt the rack up, the clevis pin will be in Hole B

Tighten all nuts

If you want to tilt the rack up, remove the Clevis Pin from Hole C, tilt the Tilt-Up up and place the Clevis Pin in Hole B.

Step 1B

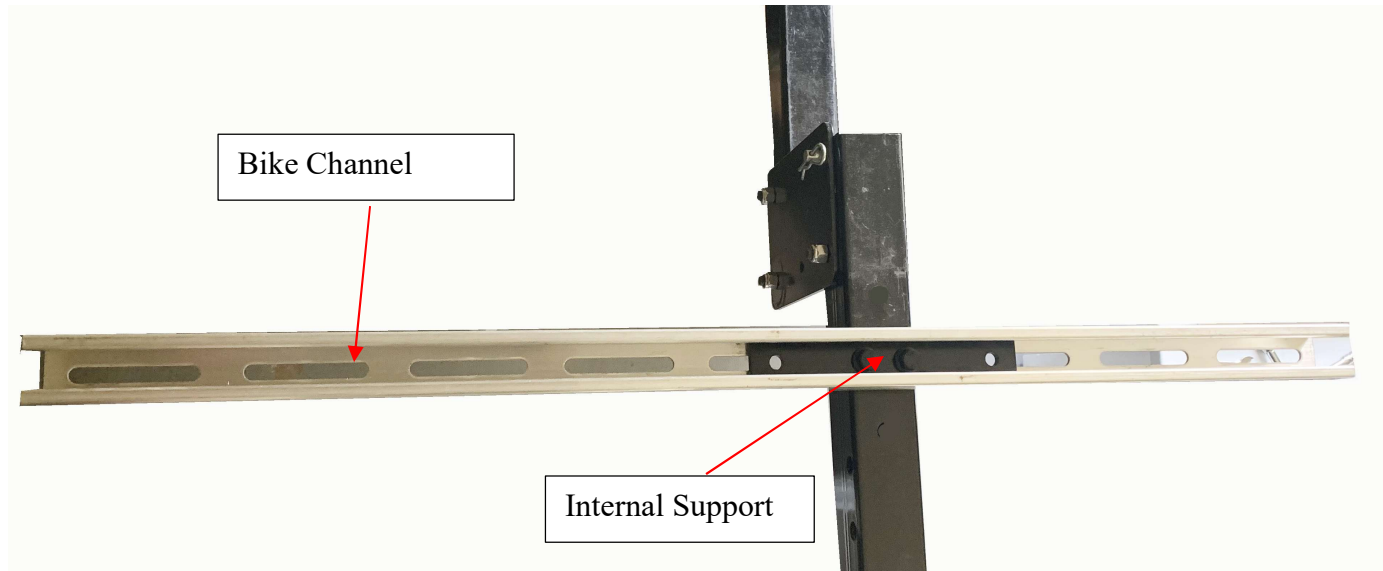
If you have a 2" rack you will do all the steps in Step 3A except you will not have the 2 Shims



Step 2A: Assemble the Bike Channel and Bike V-Trays to the Tilt-Up

2A: Assemble Station 1 for the bike that is going to be closest to the vehicle. The 38" Bike Channel should extend more on the driver's side than the passenger side. How much more will depend on the radius of your bike's front wheel. It should extend the radius of your wheel more to the driver's side.

Place the Strut Support inside the Bike Channel which is a piece of metal 8" x 1" and $\frac{1}{4}$ " thick with 4 holes in it. The Strut Support should be placed over the two holes in the Tilt-Up closest to the vehicle. Two flange head bolts should be placed through the Strut Support, Bike Channel and the Tilt-Up with a flat washer and a self-lock nut on each bolt.



2B: Assemble Station 2 for the bike that is going to be furthest from the vehicle. The 38" Bike Channel should extend more on the passenger side than the driver side. How much more will depend on the radius of your bike's front wheel. It should extend the radius of your wheel more to the driver's side.

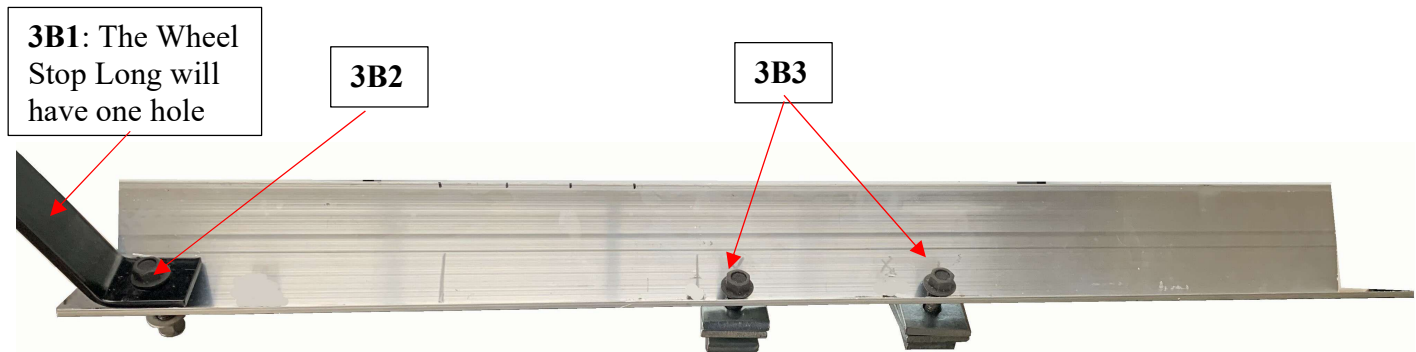
Place the Internal Support inside the Bike Channel which is a piece of metal 8" x 1" and $\frac{1}{4}$ " thick with 4 holes in it. The Internal Support should be placed over the two holes in the Tilt-Up furthest from the vehicle. Two flange head bolts should be placed through the Strut Support, Bike Channel and the Tilt-Up with a flat washer and a self-lock nut on each bolt.

Step 3: We will now assemble the 32" Bike V-Trays.

3B1: Place a Long Wheel Stop over the two holes closest to the end of one of two 32" V-Trays. This will be the driver side V-Tray of Station 1 and the passenger side of Station 2

3B2: Pass two 1 3/4" flange head bolts through the holes in the end of the Long Wheel Stop and then through the V-Tray holes closest to the end. Place a flat washer on the bolts and two self-lock nuts on the end of the bolts, Tighten the nuts.

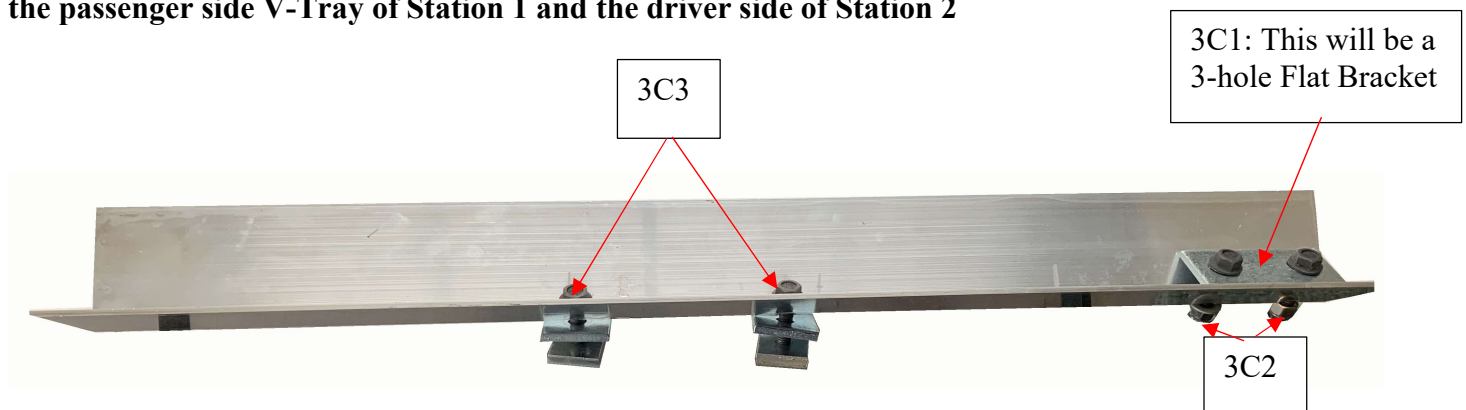
3B3: In the other two remaining holes of this V-Tray place a 1 3/4" flange head bolt in each hole in the V-Tray. Slide two square washers onto each of the bolts under the V-Tray and then screw two square nuts onto each of the bolts. Screw the square nuts onto each bolt so that the bolt comes just through the square nuts. You will later slide the flat washers on top of the Bike Channel and the square nuts under the rails of the Bike Channel. **This will be the driver's side Bike V-Tray for Station 1 and the passenger side for Station 2**



3C1: Place a 3-hole Flat Bracket Strap Holder on the other two of the 32" V-Trays using the two holes that are 1 7/8" apart at the end of the V-Tray. (a 2-hole is shown in the picture)

3C2: Pass two 1 3/4" flange head bolts through the two holes in the Flat Bracket Strap Holder then the V-Tray so that the empty hole is on the end of the V-Tray and place one flat washer on each bolt and a self-lock nut. Place an 18" strap between the bolts of the Flat Bracket Strap Holder and slightly tighten the nuts. (Strap not shown) You will tighten the nuts all the way after you adjust the straps when you first place your bike on the rack. This will be the passenger side Bike V-Tray.

3C3: In the other two remaining holes place a 1 3/4" flange head bolt in each hole in the V-Tray. Slide one square washer onto each of the bolts under the V-Tray and then screw square nuts onto the bolts. Screw the square nuts onto the bolts so that the bolts come just through the square nuts. You will later slide the flat washers on top of the Bike Channel and the square nut under the rails of the Bike Channel. **This will be the passenger side V-Tray of Station 1 and the driver side of Station 2**

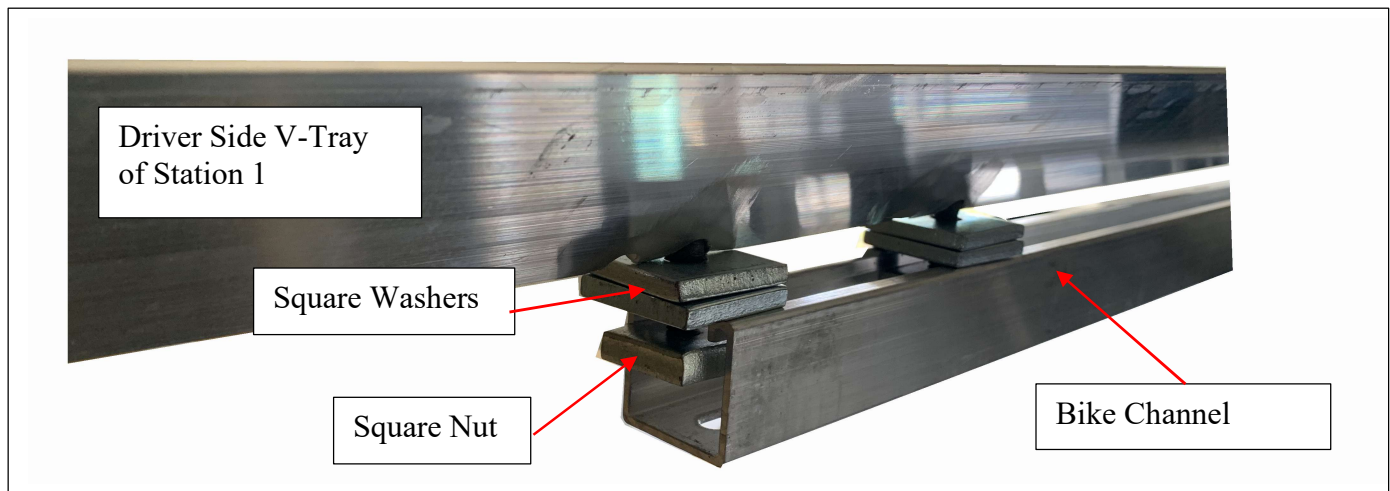


Step 4: We now will assemble together the Bike Channel and the two V-Trays called the Bike Assembly for Station 2

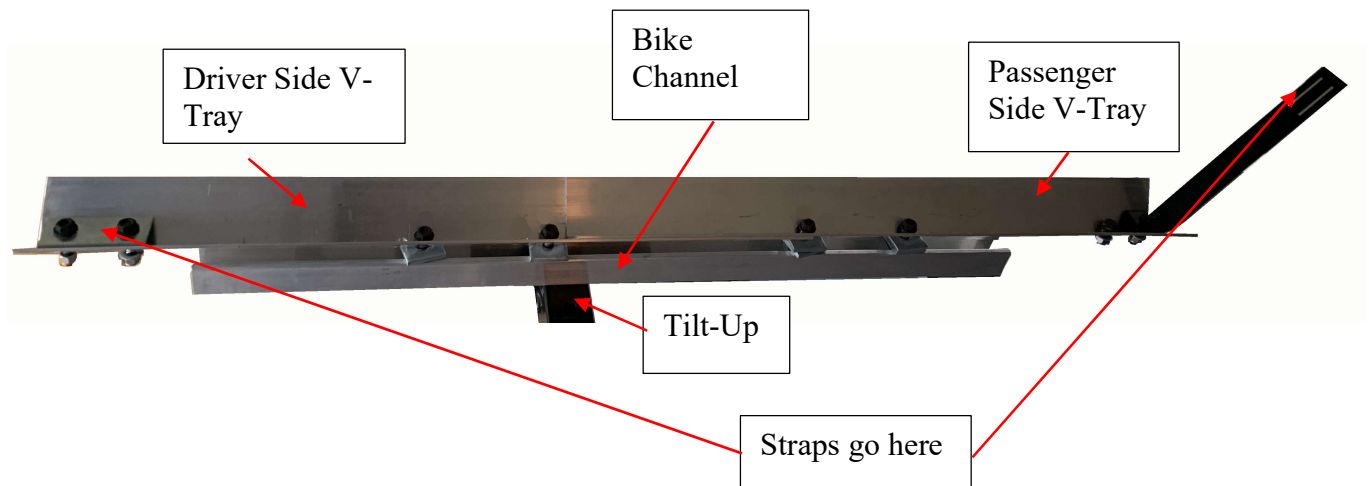
First you will slide each of the V-Tray Assemblies you made in Step 3 onto the Bike Channel. We are showing below the Driver Side V-Tray Assembly on Station 1 with two flat washers. The Passenger Side V-Tray Assembly will slide onto the Bike Channel from the other side for Station 1. **Please Note: The Driver Side V-Tray Assembly for Station 1 with two square washers on each bolt will slide into the driver side of the Bike Channel Assembly and be on top of the passenger side assembly. The Passenger Side Bike V-Tray Assembly for Station 1 with one square washer on each bolt will slide into the passenger side of Bike Channel Assembly and be under the driver side V-Tray for Station 1.**

Each V-tray Assembly for Station 2 will be on the opposite side.

The two square washers go on top of the Bike Channel and the square nut goes under the rails of the Bike Channel as shown in the picture below. Slide the V-Tray Assemblies in far enough so that the square washers sit completely on the rails of the Bike Channel.

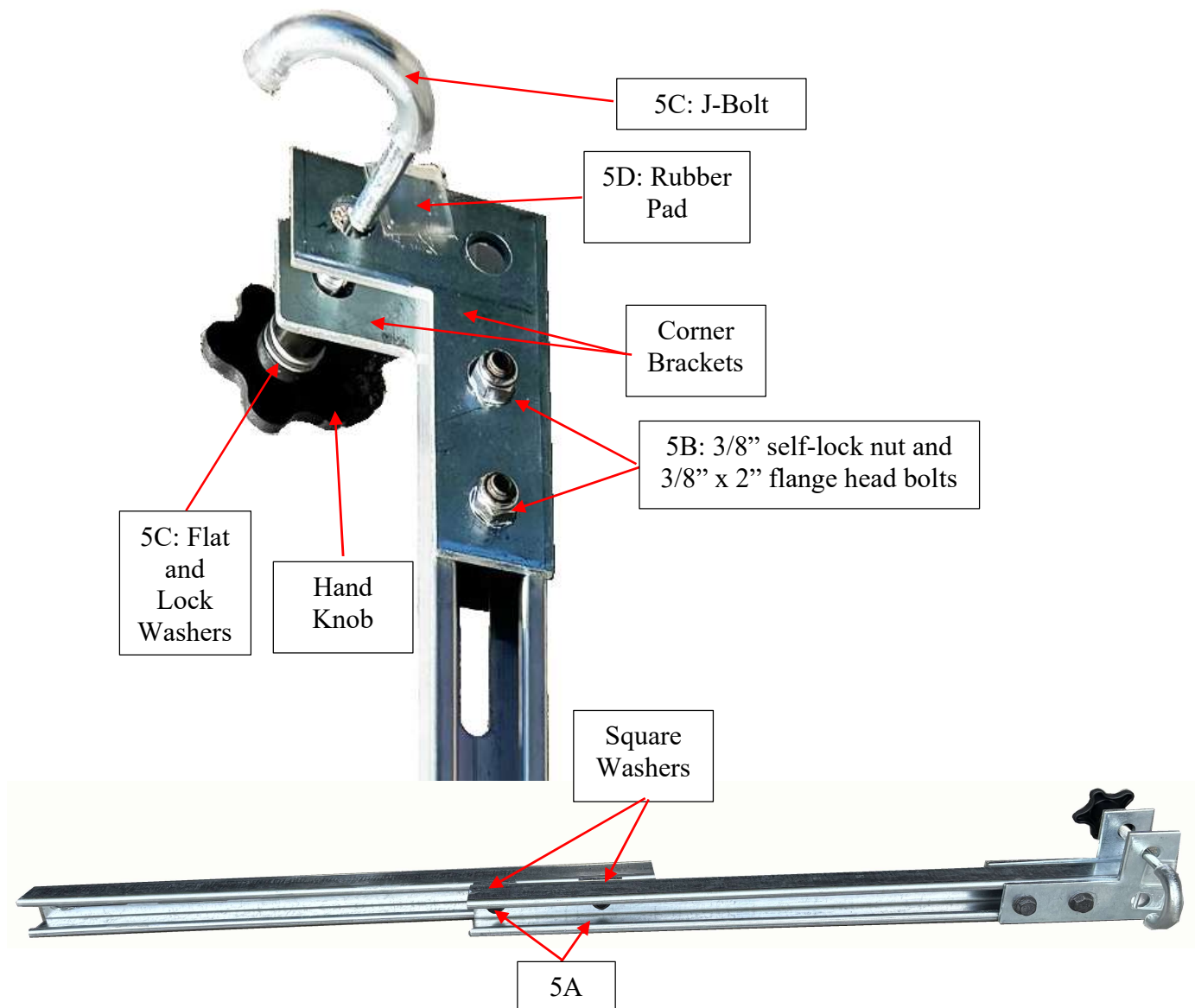


After completion of Step 4 the assembly should look like the picture below for Station 2. The V-Tray with 4 square washers will slide over the V-Tray with 2 square washers. The slide over and under each other so as to adjust for your bike's length. One strap will go under the Long Wheel Stop. The second strap will go on the other end under the Strap Holder. Once you adjust for the length of your bike, tighten all bolts.

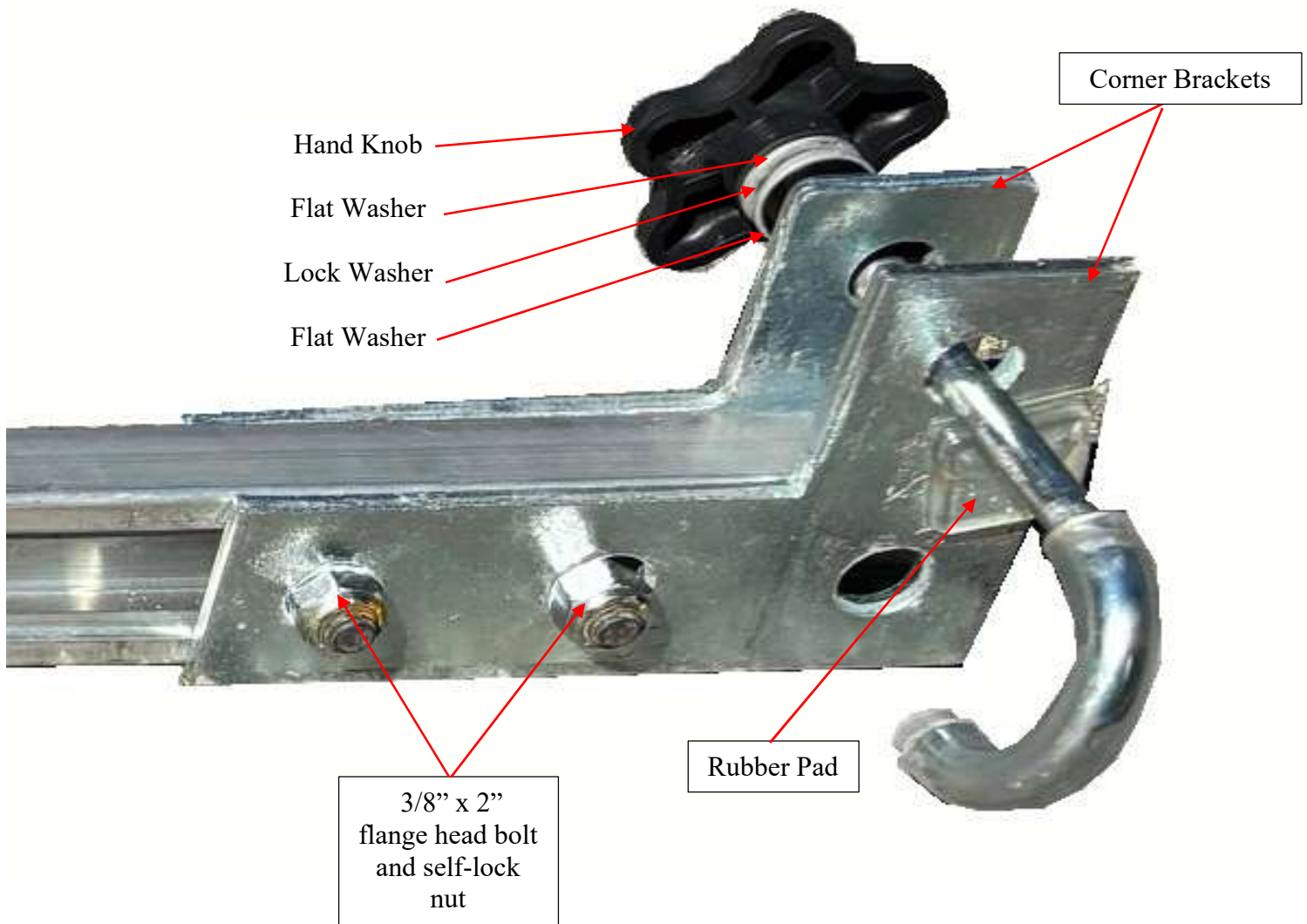


Step 5: Fasten Bike Vertical Top on top of the Bike Vertical Bottom and assemble the Seat Post Holder Assembly:

- 5A. Put the 24" Bike Vertical Top Channel under the 24" Bike Vertical Bottom Channel as shown in the picture below. Place a 3/8" lock washer on two 3/8" x 1" flange head bolts. Pass the bolts up through Top Vertical Channel and through the Bottom Vertical Channel as shown in the picture below and secure with the 3/8" Channel Nut under the rails of the Bottom Vertical Channel. Make certain the channel nut is under the rails of the Bottom Vertical Channel.
- 5B. Bolt the Seat Post Corner Brackets on each side of the Bike Vertical Top using (2) 3/8" x 2" flange head bolts. Pass the bolts through the Corner Brackets, Bike Vertical Top and place a 3/8" self-lock nut on the end of the bolts.
- 5C. Place the J-Bolt through the corner hole in the Corner Bracket and the Bike Vertical top. Place the black round spacer on the J-Bolt then a flat washer, then a lock washer, then another flat washer and then the hand knob and finally the self-lock nut on the J-Bolt. Make certain the J-Bolt slides easily.
- 5D: Peel off the protective paper and place the rubber Pad



Close-Up of Seat Post Holder

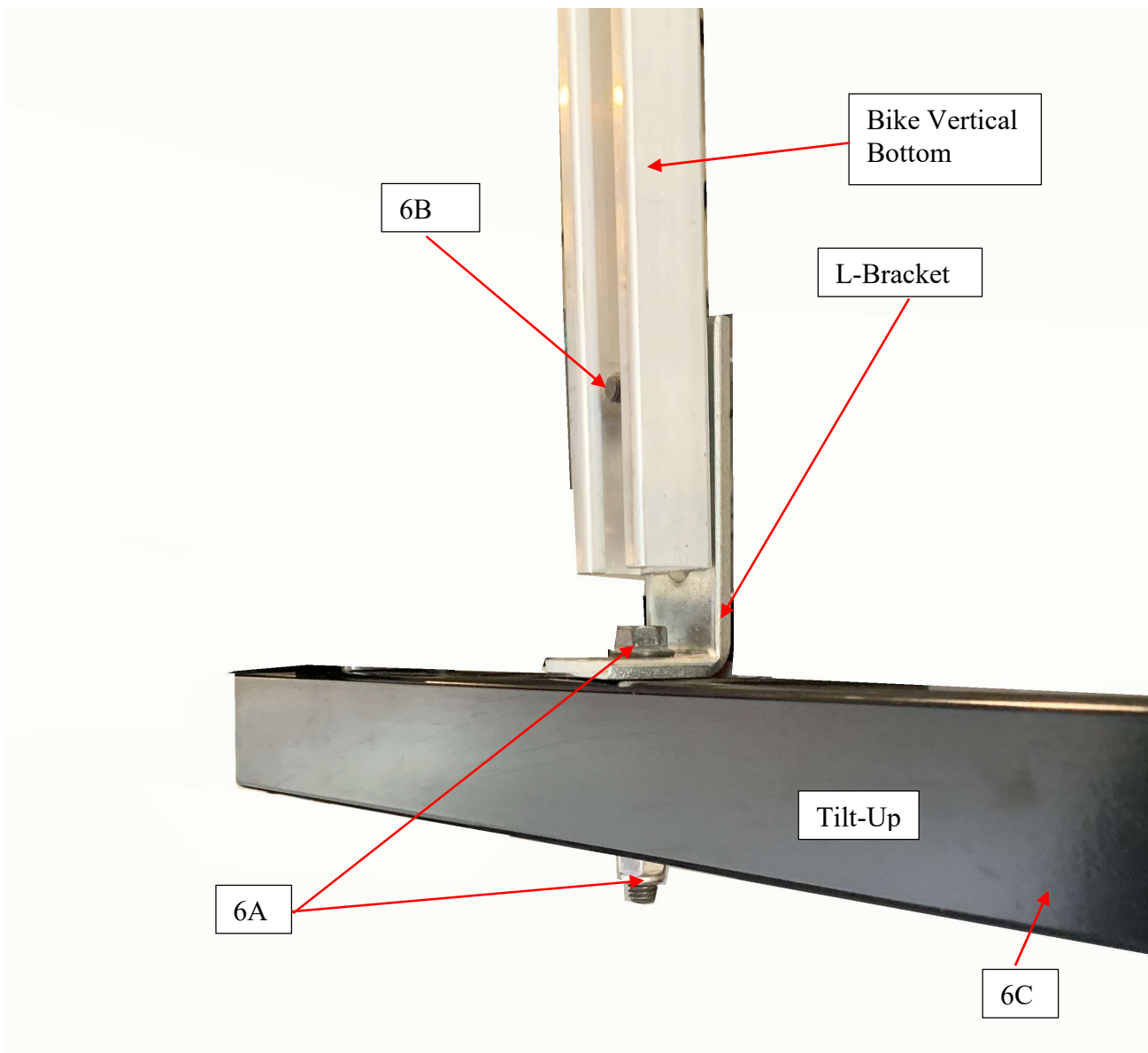


Step 6: Attach the L-Bracket to the Tilt-Up and the Bike Vertical Assembly to the L-Bracket

6A: Place (5) 3/8" washers under the head of a 3/8" x 3 5/64" hex head bolt with a hole for a cotter pin (**Only one washer is shown in the picture**). Place the bolt through the L-Bracket and the Tilt-Up in the hole that is 3 1/8" from the outer end of the Tilt-Up. Attach a 3/8" flat washer and a 3/8" slotted lock nut on the end of the hex head bolt and tighten snugly and put a Cotter Pin through a slot in the nut and the hole in the bolt. The nut should be snug but so that the L-Bracket can swivel. The L-Bracket will need to swivel when the Bike Verticals are attached to it, but it should not be loose.

6B: Place (4) 3/8" washers under the head of a 3/8" x 1 5/64" hex head bolt with a hole in the end for a hair pin. Pass the bolt through the bottom slot in the Bike Vertical Bottom and the top hole in the L-Bracket. Attach a 3/8" flat washer and a slotted lock nut on the end of the hex head bolt and tighten snugly so that the vertical can pivot on the L-Bracket and put a Cotter Pin through a slot in the nut and the hole in the bolt (**Cotter Pin not shown**). The nut should be snug so that the Bike Vertical Bottom can swivel. The Bike Vertical Bottom will need to swivel but it should not be loose.

6C: Do 6A and 6B for the hole that is 16.5" from the back end of the Tilt-Up



Picture of Finished Rack



CycleSimplex Return Policy

At CycleSimplex, we aim to provide high-quality trike and bike racks built for safety, convenience, and durability. We understand that sometimes a purchase may not meet your expectations, or you may need to return a product due to defect or other reasons. This page outlines our **return policy**, **warranty information**, and **shipping guidelines**, so you know exactly what to expect.

Returns

CycleSimplex accepts returns of unused trike or bike racks within **15 days of delivery**. To be eligible for a return:

- The product must be **unused and in like-new condition**.
- It should be **packaged carefully** to prevent any damage during shipment.

Once your return is received and inspected, we will process a **full refund** to the original payment method.

If the returned rack arrives damaged due to improper packaging or shipping, we may **deduct the cost of repairing the damage** from your refund. To avoid this, please use the original packaging if possible, or secure the rack adequately to prevent any dents, scratches, or other damage during transit.

Returns can be initiated by contacting our customer support team, who will provide instructions and a return address. Please include your order information so the process can be completed smoothly.

Warranty Information

CycleSimplex provides a **90-day warranty** on all trike and bike racks, covering defects in **materials or workmanship**. This warranty starts from the **date the product is received** by the purchaser.

During the 90-day period, if a defect is identified, CycleSimplex may, at its discretion:

1. **Replace the defective component**, or
2. **Refund the full purchase price**, provided the rack is returned in like-new condition.

The warranty does **not cover damage caused by misuse, improper installation, accidents, or normal wear and tear**. Our goal is to ensure that every rack functions as designed, providing safe and secure transport for your bicycles or trikes.

Liability Limitation

CycleSimplex limits its liability from all causes to the **purchase price of the trike or bike rack**. This means that in the event of a defect or other issue, the maximum amount CycleSimplex is responsible for is the amount you paid for the rack. Any other losses, damages, or consequential costs are not covered under this policy.

Shipping and Handling

We normally **ship all orders within a week** of receiving them. Orders are carefully packaged to prevent damage during transit.

If you select **expedited shipping** at checkout, please note that this only ensures faster delivery **once the product leaves our facility**. Expedited shipping does not guarantee that your order will ship sooner than the standard timeframe.

For returned items, the customer is responsible for shipping costs unless the return is due to a defect or an error on our part. We recommend using a **trackable shipping method** for all returns to ensure the product arrives safely.

Tips for a Smooth Return Process

- **Keep the original packaging** whenever possible.
- **Inspect the rack immediately upon delivery** to report any damage or defects promptly.
- **Use secure packaging** when returning the rack to prevent additional charges for repairs.
- **Include all components** and accessories that came with the rack.

Following these steps will ensure your return or warranty claim is handled efficiently.

Why This Policy Matters

At CycleSimplex, our goal is to provide **reliable, safe, and convenient bicycle transport solutions**. We know that returns and warranties are part of giving our customers confidence in their purchase. A clear and fair return policy ensures that you can order with peace of mind, knowing you have options if a product does not meet your needs or has a defect.

We encourage customers to review this policy before purchasing and to reach out to our support team for any questions. By following the outlined steps, both CycleSimplex and our customers can ensure that returns, refunds, or warranty claims are processed smoothly, quickly, and transparently.

For Customer Service & Support:

Please contact us at cyclesimplexllc@gmail.com