



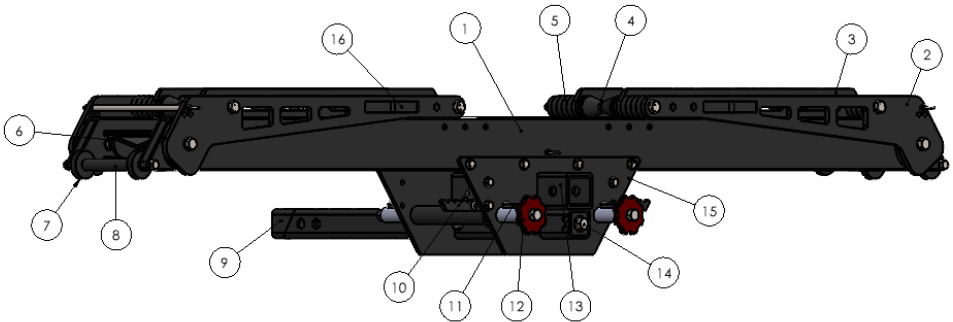
For additional info including video instructions, detailed weight ratings, and more, scan the code.



## MOTO RACK

### Parts List

- |                    |                           |
|--------------------|---------------------------|
| 1) Tray            | 9) Anti-Wobble Wedge      |
| 2) Outer Bent Arm  | 10) Pawl                  |
| 3) Inner Bent Arm  | 11) Strap Clamp           |
| 4) Spool           | 12) Ratchet Knob          |
| 5) Bent Arm Spacer | 13) Hitch Plate Receiver  |
| 6) Ramp            | 14) Anti-Wobble Tensioner |
| 7) Wheel           | 15) Hitch Plate           |
| 8) Ramp Rod        | 16) Strap Mount           |



### In the Box:

- Hitch Assembly
- Tray Assembly
- (4) Straps
- Hardware/Bent Arm Spacer Packet
- Hitch Bar Lock
- 5/32" Allen Wrench
- Reversible Ratcheting Wrench, 9/16" X 3/4"

### Product Notes:

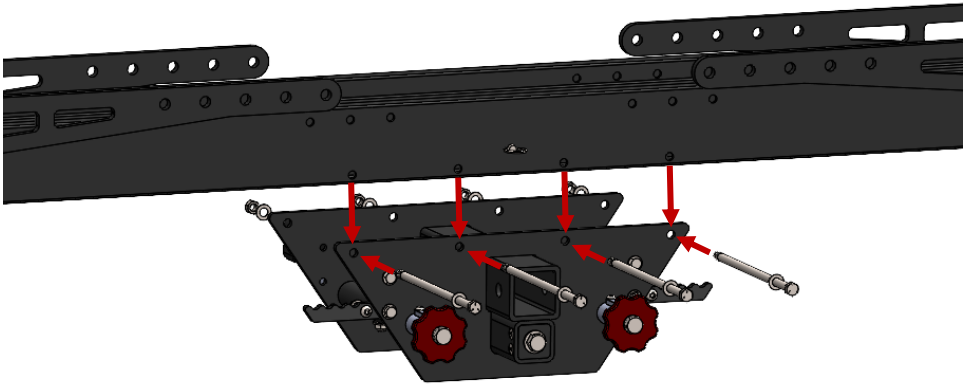
- Fits tires up to 7" wide.
- Hitch Plate Receiver capacity: 150lb.

## **Step 1: Unpacking**

- Remove Hitch Assembly, Tray Assembly, Accessories, and Hardware Packets from boxes.

## **Step 2: Assembling Tray to Hitch Assembly**

- Insert Hitch Assembly into a receiver or place onto a flat surface. Ensure four holes on Hitch Plate are accessible from top as shown below.
- Tilt Tray into Hitch assembly and align one end hole on Hitch Plate with Tray hole and insert 3/8"-16 x 9.25" Hex Bolt with 3/8" Washer. Make sure Decals on Tray are facing away from vehicle.
- With one bolt and washer installed, align three other Hitch Assembly holes to Tray holes and insert 3 more hex bolts with washers.
- Install 3/8" Washers and 3/8"-16 Nylock Nuts on backside of Hitch Assembly. Tighten 4 hex bolts with supplied Wrench and additional 9/16" wrench. Tighten middle bolts first then outer bolts for proper Tray alignment.



## **Step 3: Assembling Bent Arms**

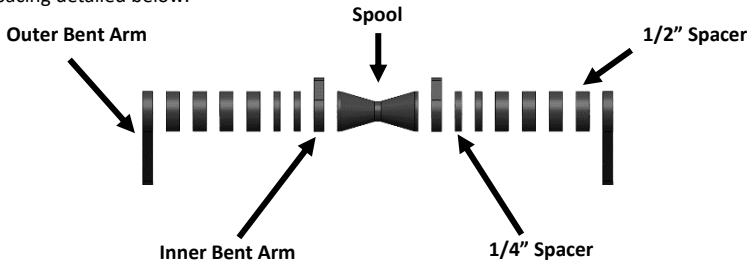
- Install Strap Mounts on bottom two holes of Outer Bent Arms with 1/2"-13 x 1" Hex Bolts and 1/2" Washers as shown below and tighten with supplied Wrench.



- Measure front and rear tire widths on Bike.

**Note:** *This dimension is crucial to stabilize your tires with Inner Bent Arms when Bike is loaded.*

- Find tire width size on table below for proper spacing of Inner Bent Arms. Example of <3" tire width spacing detailed below.



| Tire Width | Inner Bent Arm Spacing |
|------------|------------------------|
| 3"-3.4"    |                        |
| 3.4"-3.9"  |                        |
| 3.9"-4.4"  |                        |
| 4.4"-4.9"  |                        |
| 4.9"-5.4"  |                        |
| 5.4"-5.9"  |                        |
| 5.9"-6.4"  |                        |
| 6.4"-6.9"  |                        |

- Offset Driver Side Outer Bent Arms to allow installation of Spacers, Spools, and Inner Bent Arms.
- Insert 1/2"-13 x 10.375" Hex Bolts with 1/2" Washers into front Outer Bent Arm holes.

**Note:** *Bike loading orientation dependent on Inner Bent Arm spacing. For example, assemble Driver Side Bent Arm Assembly with front tire spacing for Passenger Side loading. (All images display Passenger Side loading)*

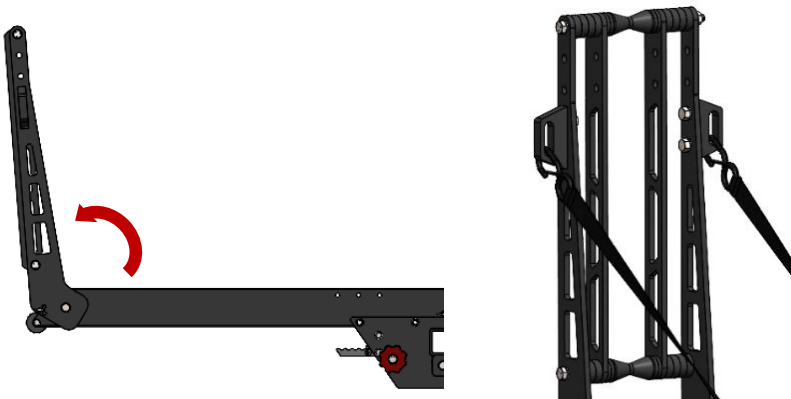


- Using appropriate spacing for front or rear tire, slide Spacers, Inner Bent Arms, and Spools onto respective hex bolts.
- Align back Outer Bent Arm holes with hex bolts and install 1/2" Washers and 1/2"-13 Nylock Nuts
- If Spacers are not fitting in between Outer Bent Arms, Loosen Outer Bent Arm Pivot bolt until Spacers fit. Remember to tighten Outer Bent Arm Pivot bolt after assembling Bent Arm Assembly.
- Tighten all bolts with supplied Wrench and 3/4" Wrench. Repeat for Passenger Side Bent Arms.

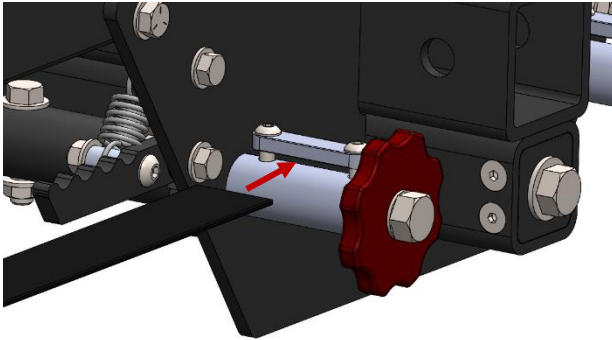
### **Step 4: Installing Straps**

- Focusing on Driver Side, open Bent Arm Assembly until the Assembly is slightly past vertical.
- Attach Strap S-hooks to Strap Mounts on Outer Bent Arms.

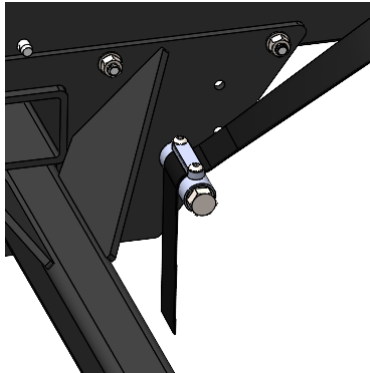
**Note:** *Bent Arm angle is crucial when setting Strap length to ensure proper use of Ratcheting Mechanism.*



- Loosen 1/4"-20 Strap Clamp Button Head Screws with supplied 5/32" Allen Wrench.
- Insert Strap end through gap between Strap Clamp and Mandrel.
- Tension Strap by pulling Strap slack that is through Strap Clamp and tighten 1/4"-20 Button Head Screws.

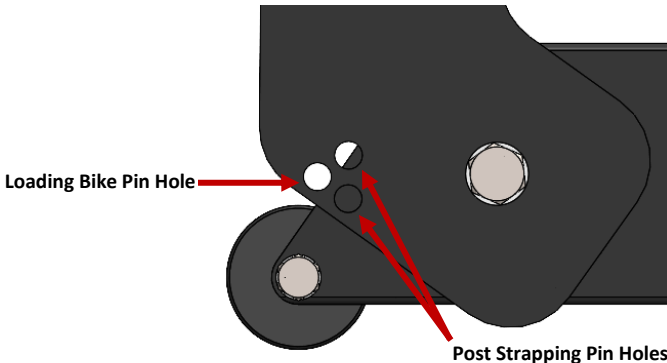


- Pull back Strap through gap between Strap Clamp and Mandrel. Tension Strap by pulling slack and tighten 1/4"-20 Button Head Screws.



**Note:** *If installed correctly, Straps will be of same tension when fully opening Bent Arm Assembly.*

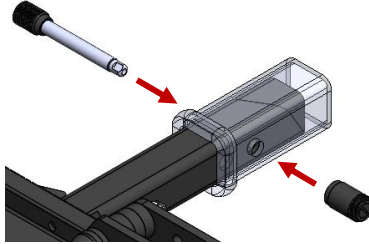
- Install 3/8" x 9.563" Bent Arm Pin through both Bent Arms in the Loading Bike Pin Holes.



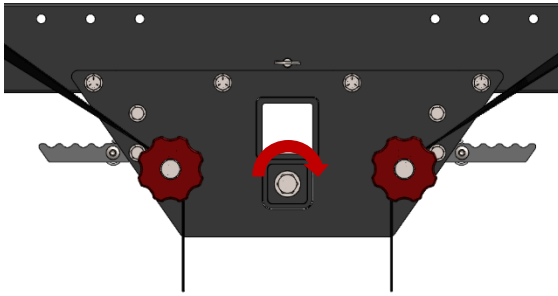
- Repeat steps on Passenger Side.

## Installing Rack

- Transport Rack to vehicle using Wheels and Ramp Rod as handle on either end of Tray.
- Insert Rack into receiver taking care to align Rack Stinger hole with receiver hole.
- Insert Locking Pin through receiver and Hitch Bar and attach Lock Head to Pin by spinning Key Clockwise until it bottoms out. Then remove Key.



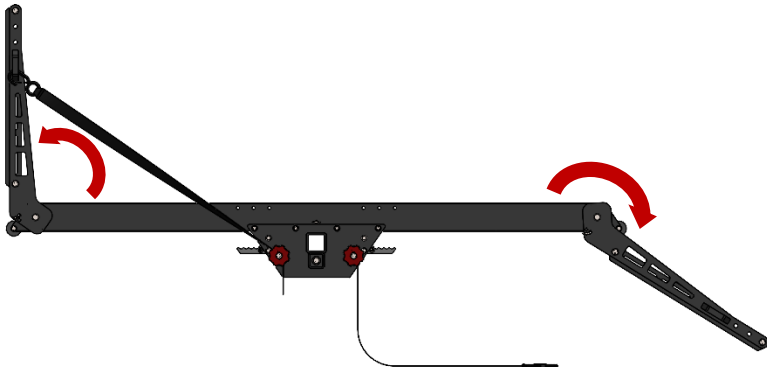
- Using supplied Wrench, tighten Anti-Wobble Tensioner clockwise until Rack is stable in receiver. If loose after tightening, slightly lift Rack and continue tightening until stable.



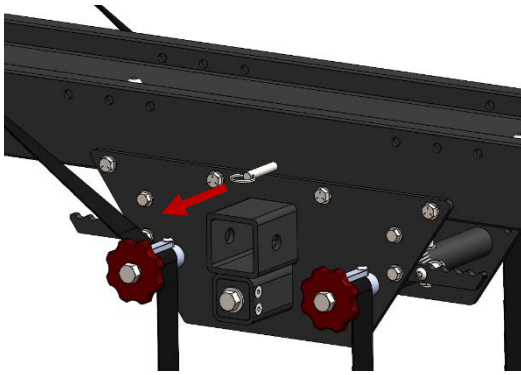
**Warning:** *Failure to follow above instructions may cause severe damage to Bike and/or Rack.*

## Loading Bike

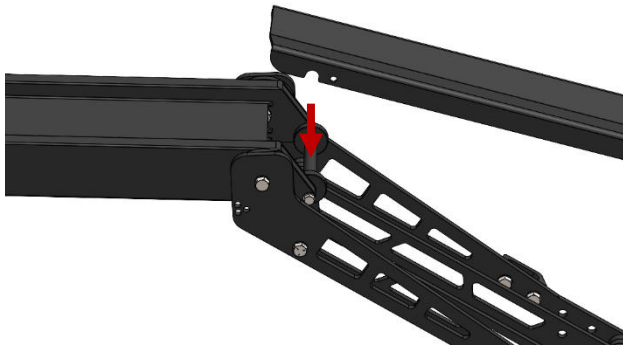
- Open Driver Bent Arm Assembly until it bottoms out on Pin in Loading Bike Pin Hole.
- Unclip S-hooks from Passenger Side Strap Mounts.
- Remove Passenger Bent Arm Pin and Assembly until it is angled towards ground.



- Pull Ramp Detent Pin from center of Tray.

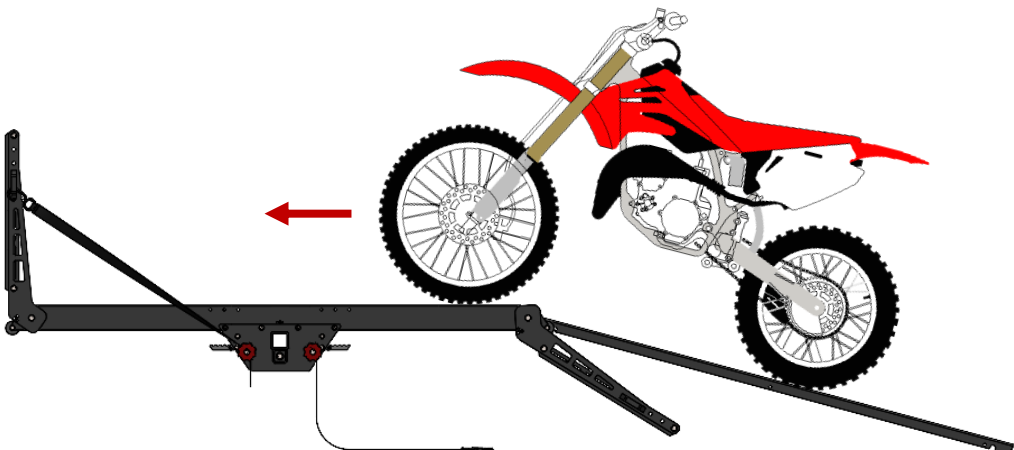


- Slide out Ramp from Tray cavity and engage end cutout with Ramp Rod.



- Roll Bike up Ramp and onto Rack. Use Driver Bent Arm Assembly to stabilize Bike while loading.

**Note:** *Driver Bent Arm Assembly will hold Bike upright once front wheel is engaged between Inner Bent Arms.*



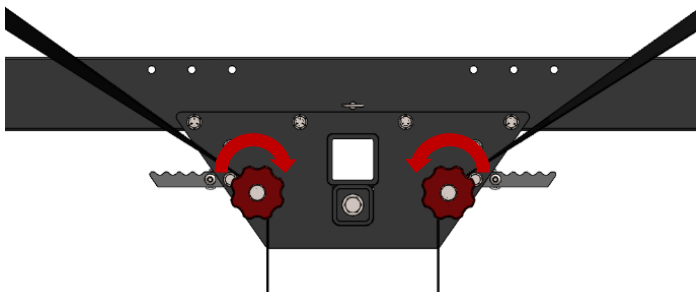
- Remove Ramp from Ramp Rod and slide back into Tray Cavity.
- Pivot Passenger Bent Arm Assembly so that it engages with rear tire of Bike and reinsert Ramp Detent Pin.
- Re-clip S-hooks to Passenger Bent Arm Assembly Strap Mounts.



### **Strapping Bike**

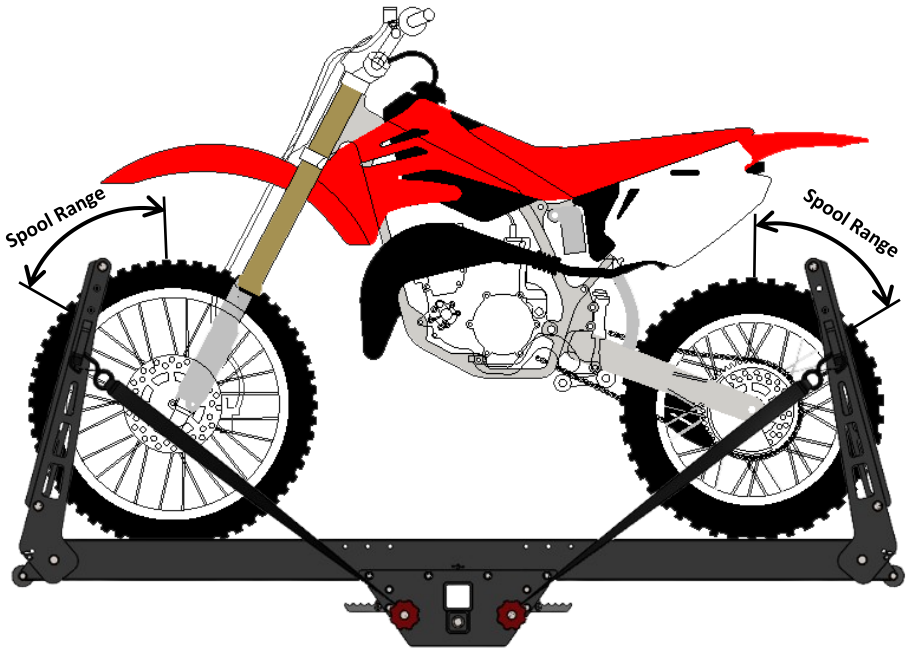
- Using supplied Wrench, turn Driver Side Ratchet Knob clockwise to firmly contact Driver Bent Arm Assembly onto front tire.
- Using supplied Wrench, turn Passenger Side Ratchet Knob counterclockwise to firmly contact Passenger Bent Arm Assembly onto rear tire.

**Note:** *All Straps should be wound at least once over themselves for optimal ratcheting safety. If Straps do not wrap over themselves, adjust Strap slack until proper fitment.*



- Reinstall Pins in both Driver and Passenger Bent Arm Assemblies.





**Note:** *Spools must contact tires within specified range. Bike is not secured on Rack if Spools are located outside of specified range.*

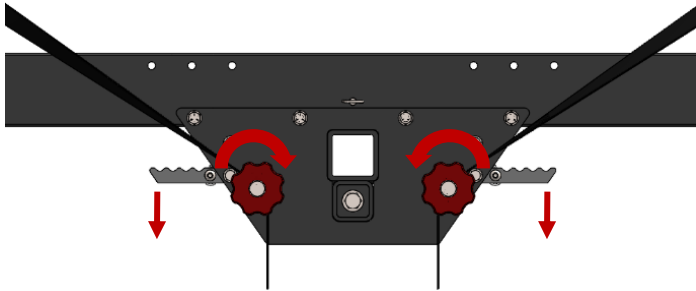
- To adjust Spool location, remove hex nut and washer with supplied Wrench and 3/4" Wrench.
- Slide bolt out of Spacers, Inner Bent Arms, and Spool and re-assemble Spool and Spacers in desired Spool position. Tighten hex bolt with supplied Wrench and 3/4" Wrench.



## Unloading Bike

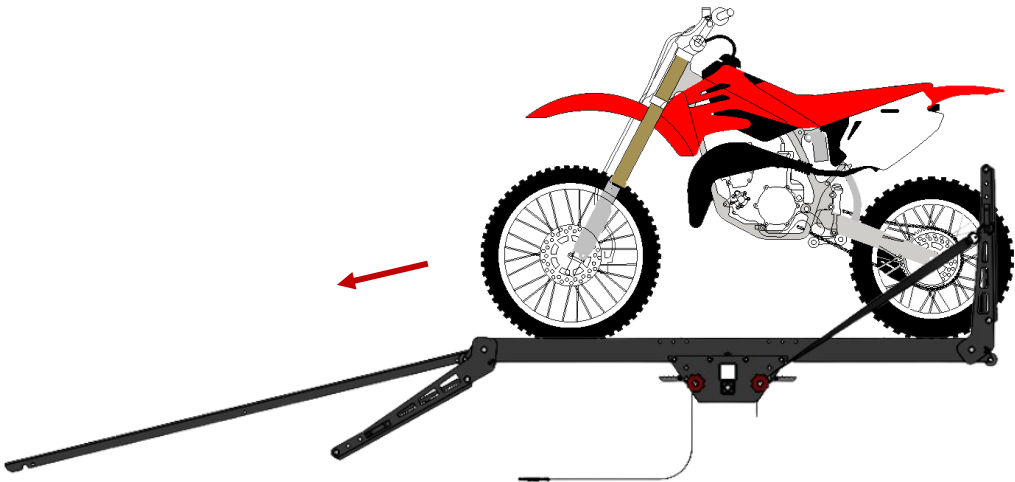
**Note:** *When releasing Driver and Passenger Side Ratchets make sure to keep Bent Arms vertical and engaged with tires.*

- To release Ratchet Mechanism, use supplied Wrench to slightly overtighten Driver Side Knob **clockwise** while simultaneously pressing down on Pawl. With Pawl pressed down, turn Knob opposite way and Strap will come loose.
- Repeat on Passenger Side Knob by turning Ratchet Mechanism **counterclockwise**.



**Note:** *Bike can be unloaded forwards or backwards off Rack. Unloading backwards will be reverse of loading process. Unloading forwards is explained below.*

- Unclip Driver Side S-hooks from Strap Mounts, pull out Bent Arm Pin, and pivot Bent Arm Assembly until it is angled towards ground (rear wheel of Bike will be held stable by Passenger Bent Arm).
- Remove Ramp Pin from center of Tray and slide Ramp out of Tray cavity.
- Attach Ramp to Driver Side Ramp Rod.
- Roll Bike forward off Rack and down Ramp.



## **Additional Instructions**

- Tighten Anti-Wobble Tensioner Bolt periodically.
- Remove Rack from receiver at least every two weeks and clean receiver so Rack does not seize in receiver.
- Remove road debris off nuts, bolts, and ratchet mechanisms to prevent corrosion.
- Inspect hardware and straps on Rack periodically to ensure proper working conditions.
- Certain car wash chemicals may damage rack finish. Please take caution when cleaning vehicle and/or Accessory.
- Failure to follow above instructions, or misuse of bike rack, may void warranty.

Questions or comments? Contact our support team via email at [email@1up-usa.com](mailto:email@1up-usa.com)