MotoTote®

Instructions for MTM Dual Carriers

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For additional assistance view online instructions with step by step videos:

MotoTote Mini Limitations

Mini - Single bike
Maximum Bike Weight: 200 LBS / 90 KGS

Mini Dual - Two bikes
Maximum Total Load: 350 lbs. / 159 kgs.

Maximum Weight per Bike:

- Inner Bike: 200 lbs. / 90 kgs.
- Outer Bike: 150 lbs. / 68 kgs.

Vehicle Limitations

Towing Capacity
The combined weight of the MotoTote carrier and your bike should not exceed 10% of your vehicle's towing capacity.
CAUTION: Exceeding 10% of your vehicle's towing capacity could cause unsafe conditions including degradation of vehicle handling and steering.

To calculate the maximum weight for your vehicle, divide your vehicle's total towing capacity by 10 and then subtract the weight of the MotoTote carrier (Mini single - 30 lbs. / 14 kgs., Mini Dual - 60 lbs. / 27 kgs.)
Example: 3000 lbs. / 1364 kgs. towing capacity divided by 10 = 300 lbs. / 136 kgs. minus MotoTote Mini Dual weight of 60 lbs. / 27 kgs. = 240 lbs. / 109 kgs.
So in this example, 240 lbs. / 109 kgs. is the maximum weight your MotoTote carrier can safely haul.

Hitch Capacity
For vehicles with an aftermarket hitch, also ensure the combined weight of the MotoTote and your bike do not exceed your hitch's tongue weight capacity. If your aftermarket hitches capacity differs from 10% of your vehicles towing capacity, base your maximum weight capacity off the lower value of the two minus the weight of the MotoTote at 60 lbs. (27 kgs).

CAUTION: Exceeding your hitch's tongue weight capacity could damage the hitch or vehicle frame.

Prep

Prep your Mini Single for the Dual Add On

This step only applies to customer's converting a MIni into a Dual.

(A.) Remove Wheelstop & Tire Track Bolts

- On the front end of the carrier, remove the bolt that holds the wheelstop and tie down arm in place.
- On the other end of the carrier, remove the bolt that holds the rear tire holder and tie down arm in place.

(B.) Remove Tie Down Arms, Wheelstop & Tire Holder

- With the bolts removed, take the tie down arms, wheelstop and rear tire holder off of the MTM platform.
- Leave the MTM Platform bolted to the square tube.

Step 1

Attach 2 MTM Platforms to Fold Up Mechanism

To Start:

- Remove contents from package and locate the square tube.
- Lay the square tube on a flat surface.

Pro Tip: Take the empty cardboard package and lay contents on top of box or on a blanket to prevent scraping the paint.

(A.) Align MTM Platform to Square Tube

- Locate and place the MTM platform onto the square tube and align the holes onto one end.

(B.) Attach Fold Up Mechanism to MTM Platform & Reciever Tube:

- Locate the fold up mechanism and align holes with holes on MTM platform & square tube.
- Find the two big hex head bolts, two nuts, and four washers in the bag labeled “Step __”. Slide one washer on each bolt and guide them through the fold up mechanism, MTM platform and square tube.
- Place the remaining two washers on the other side and secure with the nuts.

(C.) Attach 2nd MTM Platform to Square Tube

- Drop the 2nd MTM platform onto the other end of square tube and align with the holes.
- Find the two big hex head bolts, two nuts, and four washers in the bag labeled “Step __”. Slide one washer on each bolt and guide them through the platform.
- Place the remaining two washers on the other side and secure with the nuts.
- IMPORTANT: Tighten bolts on both MTM platforms until the side gaps are closed and the connection is tight. The bolt is only tightened when the gaps are fully closed, which will eliminate the platform from rocking back and forth. For geeks: Max torque 45 ft-lbs. but 25 ft-lbs. should be plenty

Step 2

Attach Mini Components to MTM Platform

Pro Tip (optional):

- To start assembly, insert the square tube several inches into the hitch.
- This will make things easier by getting the carrier off the ground at a more comfortable height for assembly.
- You'll see more details about the ZeroWobble Hitch Mount when you get to Step 5.
- NOTE: The square tube of the Max Dual & Max+ Dual carriers is bent slightly upward to reduce "hitch droop". The crease on the top of the tube is not a defect.

(A.) Mount the Wheelstop

- Locate the wheelstop and insert the anchor into the big rectanglular slot by turning the wheelstop sideways as shown. Rotate the wheelstop forward to align with the platform ensuring the anchor is hooked under the platform.

(B.) Mount the 2nd Wheelstop

- On the rear platform on the opposite side (as shown in the image), insert the second wheelstop with the same procedure as step A.

(C.) Mount Rear Tire Holders

- On the opposite sides of where you mounted the wheelstops, insert the rear tire holders with the same procedure as you did for the front wheelstops.
- Adjust the positioning of the wheelstop and rear tire holders to match the wheelbase of your bikes. Align with the nearest holes in the platform. (Measure and compare track to your bikes size for an optimal fit).

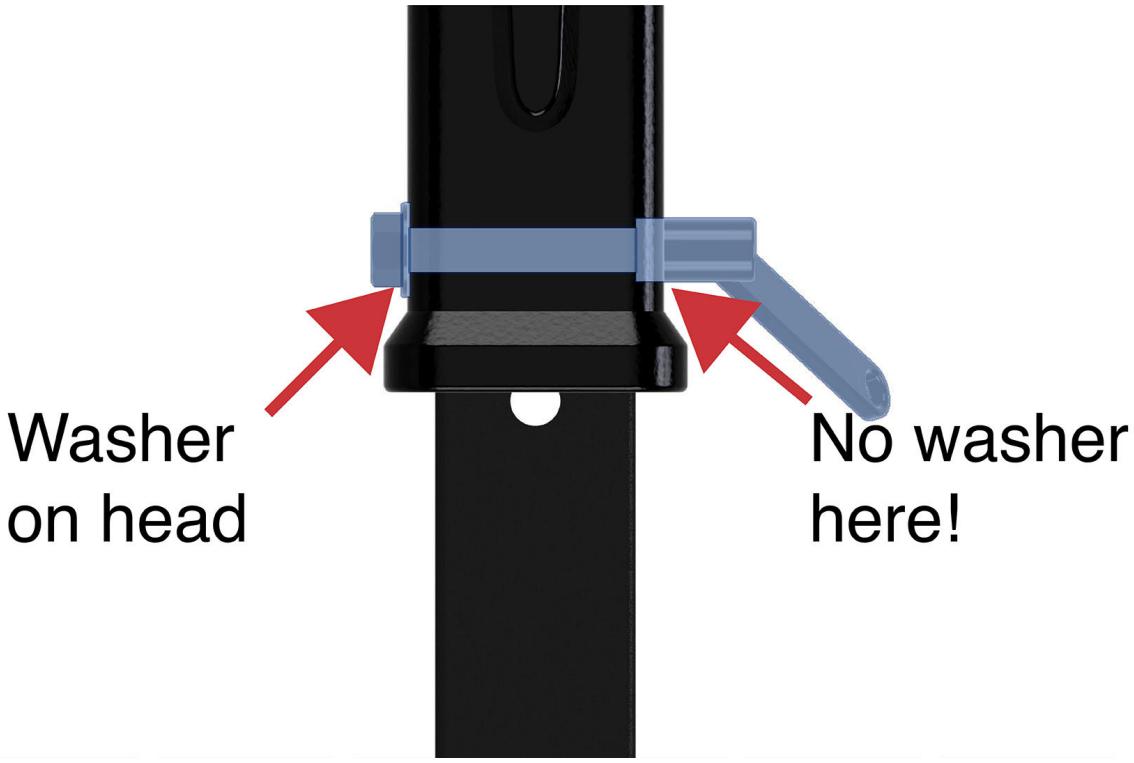
(D.) Mount Tie Down Arms & Secure Wheelstop/Tire Holder

- Locate and insert the tie down arms as shown in the photo so the loops are facing upwards.
- Re-align the tire holder/wheelstop, platform and tie down holes.
- Insert the bolt (in bag labeled “Step 2”) and hand tighten the nut. (Final tightening when your bike is loaded).
- Note: The wheelstop and rear tire holder can be placed in any of the mounting holes, but matching the front and back hole pattern will help center the bike on the rack.

Step 3

Install Carrier on Hitch Receiver

(A.) Install ZeroWobble+ Hitch-Mount



- Grab the ZeroWobble+ Hitch-Mount, put the washer on the head of the bolt and insert it into the hitch pin hole. Thread into the ZeroWobble+ handle onto the opposite end of the bolt.
- Do NOT put a washer on the threaded end of the bolt.
- Tighten the bolt with a socket wrench while holding the handle on the nut with your other hand until the connection to the hitch is solid with no play. Do not over-tighten.
- For geeks only: Max torque 55 ft-lbs. but 25 ft-lbs. should be enough.
- Make sure the barrel nut on the handle recesses all the way into the hitch pin hole until it stops against the MotoTote tube inside the hitch. This is critical to eliminating any shake by clamping the square tube to the side wall of the receiver.
- NOTE: You WILL be able to lift the end of the square tube straight up. This is normal but there should be no rotational movement.

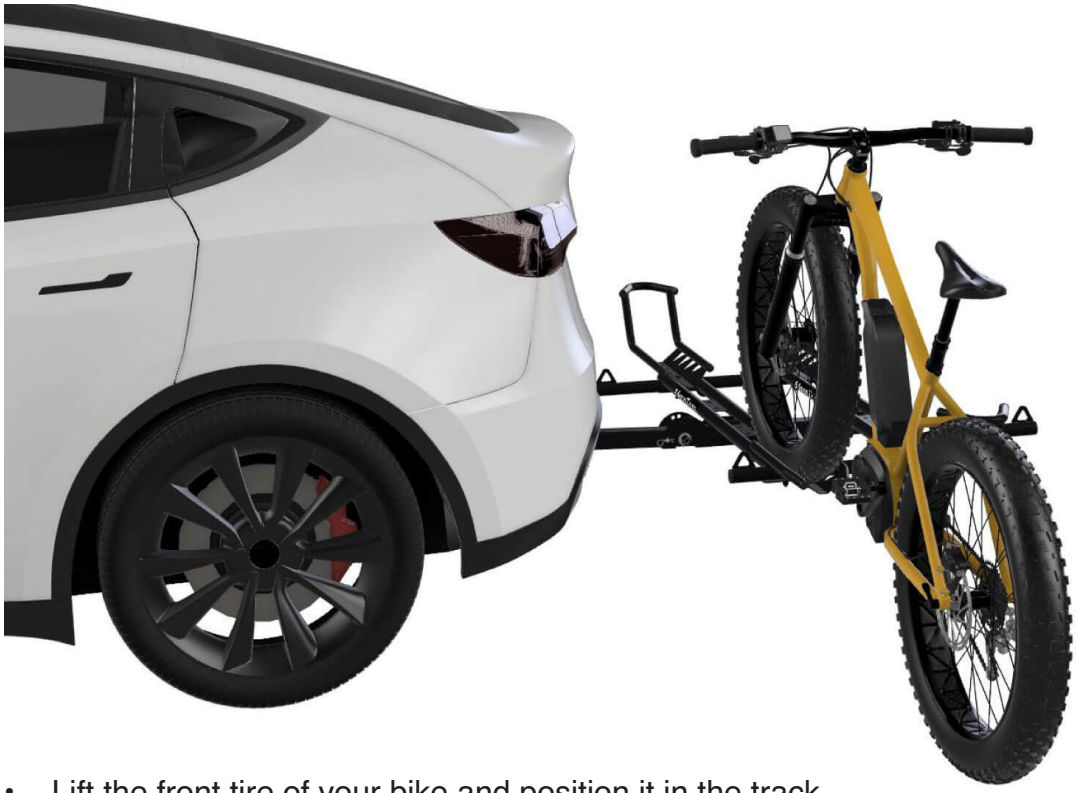
(B.) Test Fold Up Mechanism

- Prior to loading the bikes, test the flip up mechanism. Remove the metal pin and flip it up then lock in position.
- Return the flip up mechanism to the down position so you are prepared to load the bikes in the next step.

Step 4

Secure 2 Bikes to Your MotoTote Mini

(A.) Load First Bike on Inside Rack Position



- Lift the front tire of your bike and position it in the track.
- Roll the bike forward and lift the rear tire into the cradle. Stop once the front tire is wedged in the wheelstop.

(B.) Secure Front Handlebars to Tie Down Arm

- With the front tire in the front wheelstop, connect one end of tie down to the tie down arm and the other to the bike's handlebars on each side. We recommend connecting the handlebar closest to the vehicle first, as it will support the bike and allow you to more easily complete the tie down process.
- Alternate back and forth while tightening until the bike is secured and centered.
- Tie off excess straps for safety and security.

(C.) Secure Back Tire to Tie Down Arm

- With the front tire in the front wheelstop, connect one end of tie down to the tie down arm and the other to the bike's handlebars on each side. We recommend connecting the handlebar closest to the vehicle first, as it will support the bike and allow you to more easily complete the tie down process.
- Alternate back and forth while tightening until the bike is secured and centered.
- Tie off excess straps for safety and security.

(D.) Load Second Bike & Secure Front Handlebars to Tie Down

- Follow the same loading procedure as you did for the first bike, lift the front tire into the rear tire holder, and then lift/push the bike into the wheelstop.
- With the front tire in the front wheelstop, connect one end of tie down to the tie down arm and the other to the bike's handlebars on each side. We recommend connecting the handlebar closest to the vehicle first, as it will support the bike and allow you to more easily complete the tie down process.
- Alternate back and forth while tightening until the bike is secured and centered.
- Tie off excess straps for safety and security.

(E.) Secure Back Tire to Tie Down Arm

- With a single tie down loop through the inside of the back tire and tighten.
- The main purpose of the rear tie down is to prevent the rear tire from jumping out.
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- Double check your work! The likliest mishap is a tie down error.
- You are now ready for adventure!