

MAMMOTH ***MOUNTS***



4 & 6 Bike Rack ***Owners Manual***



Version 3.2

MAMMOTH MOUNTS

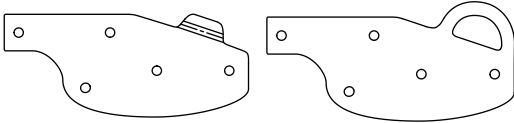
Parts Diagram



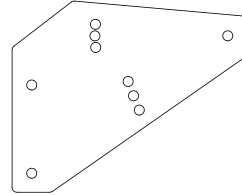
Upper Mast (x1)



Lower Mast (x1)



Pivot (x2)



Side Plates (x2)



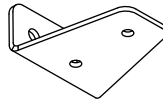
Upper Horizontal Bar (x1)



Lower Horizontal Bar (x1)



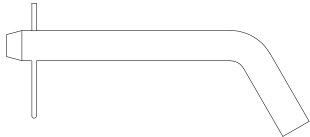
Hitch with Wedge (x1)



Lower Support Plate (x2)



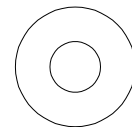
Bar Holder (x4 or x6)



5/8" Pin (x1)



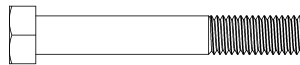
1/2" Pin (x2)



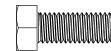
UHMW Plastic 1/2" Washer (x2)



3/8" Carriage Bolt (x8 or x12)



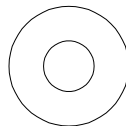
1/2" x 3 1/2" Bolt (x11)



3/8" x 1" Bolt (x4)



3/8" Steel Washer (x16 or x20)



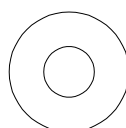
1/2" Steel Washer Gold (x22)



1/2" Nylock Nut (x11)



3/8" Nylock Nut (x12 or x16)



1/2" Stainless Steel Washer (x6)



Aluminum Spacer (x1)

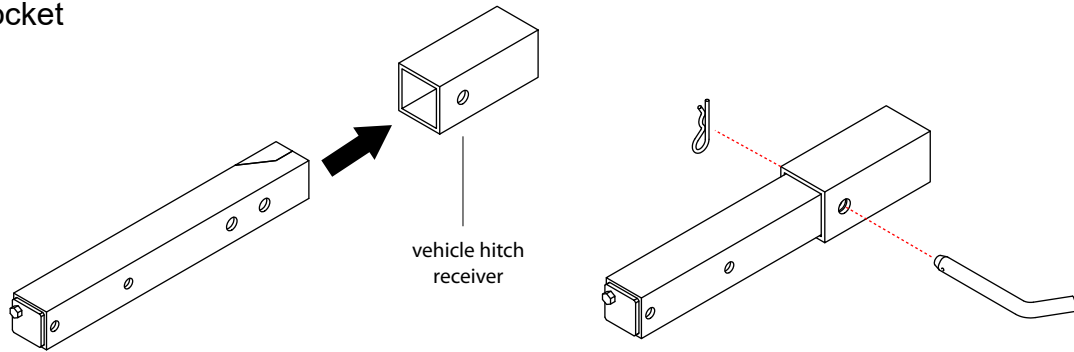
Congratulations on the purchase of your Mammoth Mounts 4 or 6 vertical bike rack. The Mammoth Mounts series of bike racks were designed primarily around transporting single crown mountain bikes however the racks will work with a variety of bikes including bmx bikes, gravel bikes, kids bikes and road bikes. This owners manual is intended to guide you through the safe setup and use of your rack. Please read instructions carefully.

Rack Assembly

Tools required:

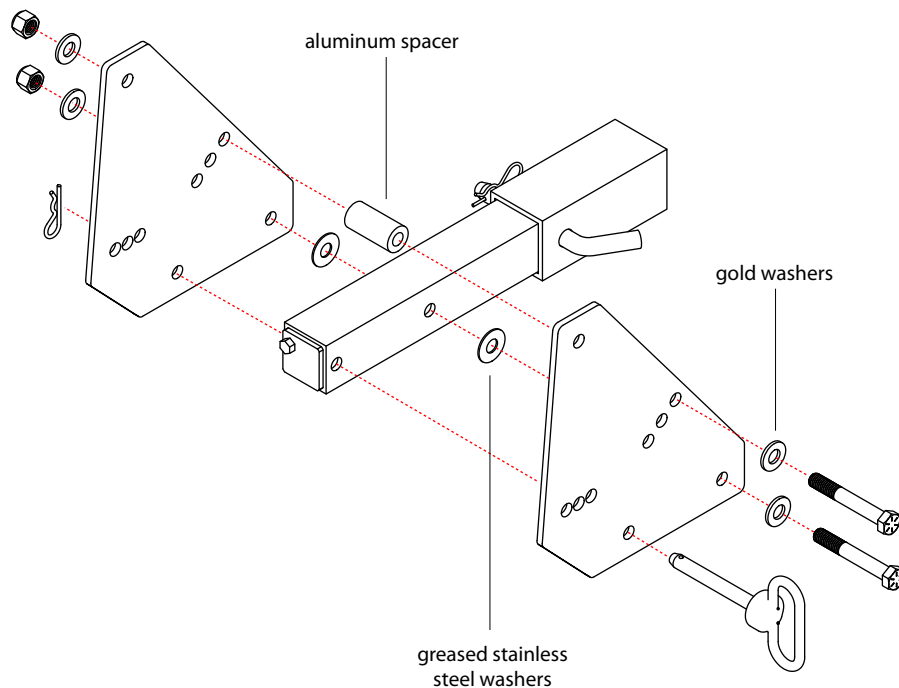
-3/4" wrench or socket

-9/16" wrench or socket



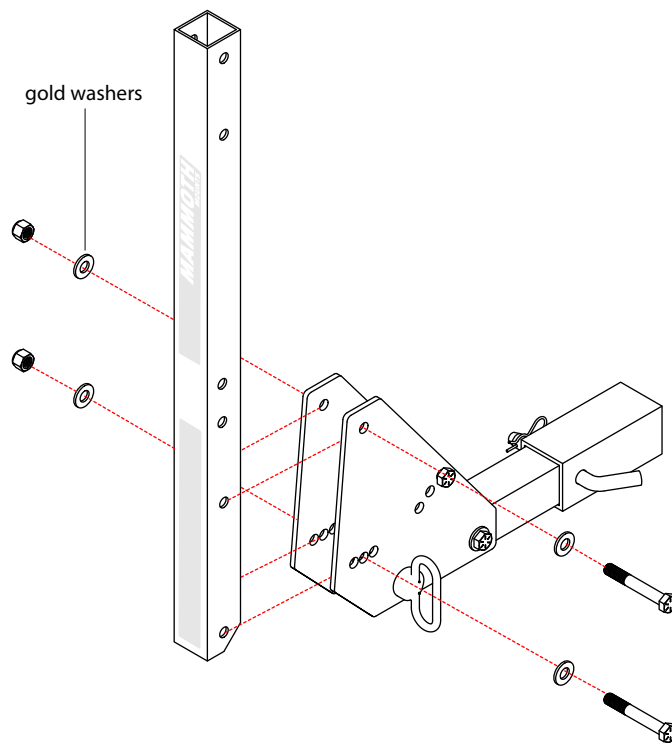
Step 1

We recommend building the rack from the bottom up. Start by placing the zinc plated hitch piece into the receiver of the vehicle. Orientate the hitch piece so that the hitch wedge is in the top left hand corner of the hitch receiver. Use the supplied 5/8" hitch pin to secure the zinc plated hitch into the receiver on the vehicle. If clearance allows we recommend mounting the hitch in the deepest of the two possible pin holes. Using a 9/16" wrench or socket tighten the bolt head on the front of the hitch piece so that the hitch no longer wobbles in the receiver.



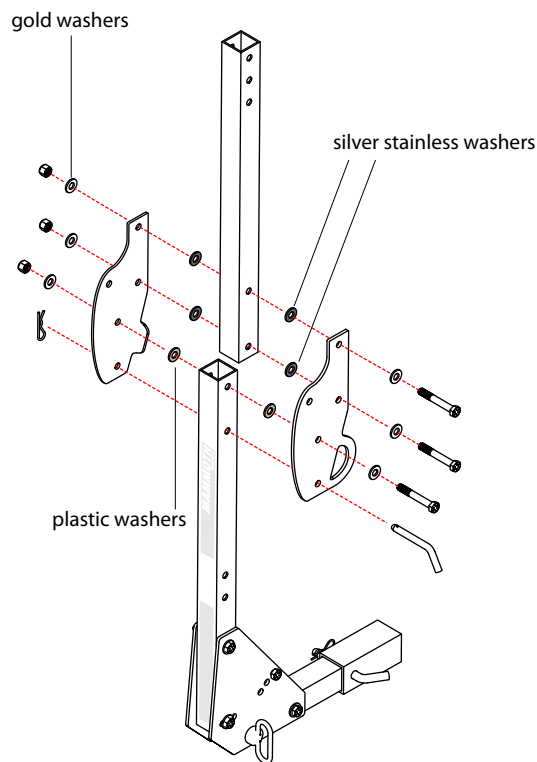
Step 2

Install the side plates as shown above. Use gold steel washers on the outside of the side plates and use silver stainless steel washers between the side plates and the hitch. Apply grease to the stainless washers during installation. Tighten the bolts to approx 40 ft/lbs.



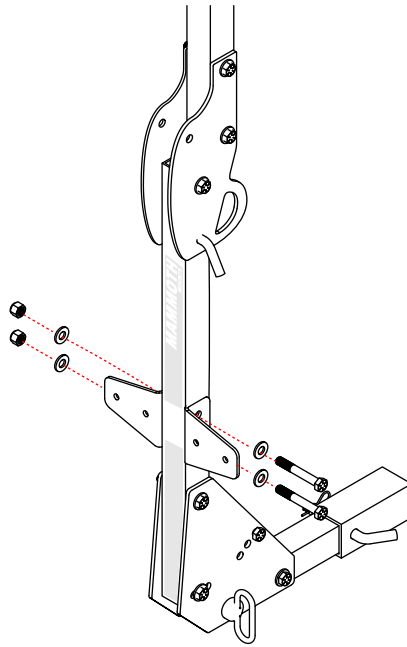
Step 3

Install the lower mast between the side plates as shown above. The lower hole has three available mounting options depending on your preference (angled towards the vehicle, angled away from the vehicle, or neutral). Tighten the bolts to approx 40 ft/lbs.



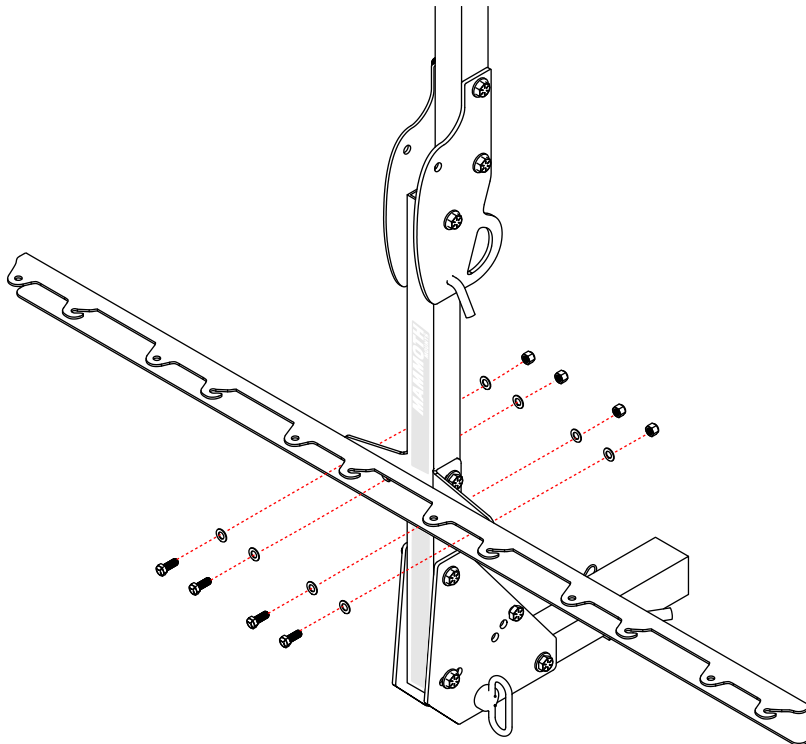
Step 4

Install the pivot plates and upper mast as shown above. **The decals on the upper mast should be facing the rear of the rack** (opposite of the lower mast). Tighten the bolts to approx 40 ft/lbs.



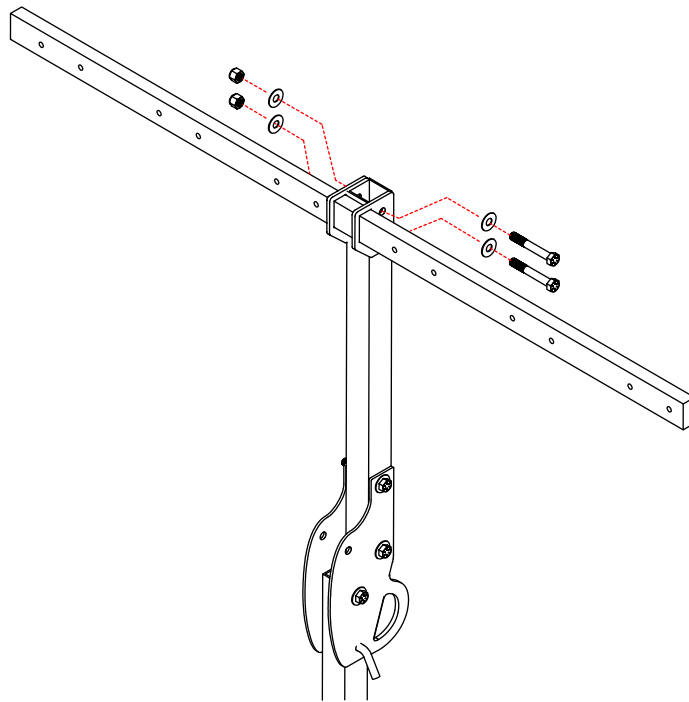
Step 5

Install the lower support plates as shown above. Tighten bolts to approx 40 ft/lbs.



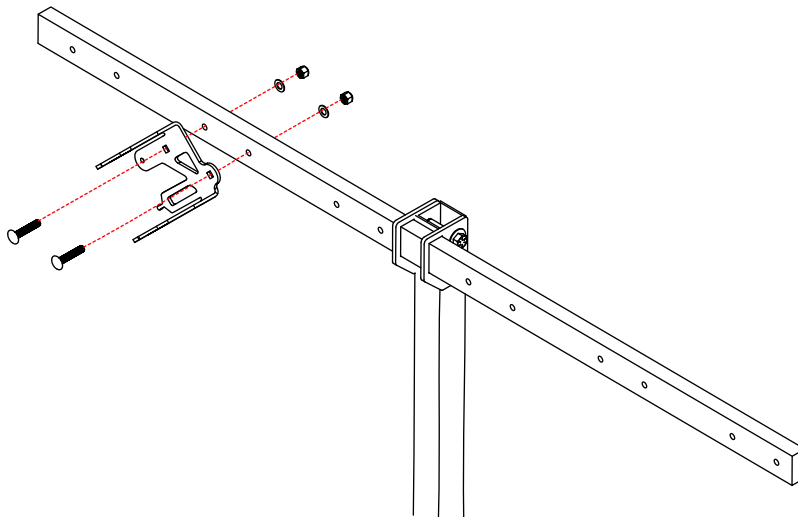
Step 6

Install the lower horizontal bar as shown above. Tighten bolts to approx 40ft/lbs.



Step 7

Install the upper horizontal bar as shown above. The upper horizontal bar can be mounted in the lower set of holes or upper set of holes based on your preference. Mounting the upper horizontal bar in the lower set of holes will decrease the overall height of the rack which will make it much easier to load bikes on a vehicle with a hitch that is mounted high off the ground. The upper horizontal bar should be positioned so that the hole spaced closest to the outside edge is on the right hand side of the rack and the angled face of the bracket is facing downwards. Tighten bolts to approx 40ft/lbs.



Step 8

Install the bar brackets as shown above. Tighten bolts to approx 10-15ft/lbs.

You are now ready to rack and roll! Enjoy your new Mammoth rack.

MAMMOTH MOUNTS

Loading and Use

Vehicle Mounting

Use only on a vehicle equipped with a 2" class III or class IV hitch receiver with a minimum tongue weight capacity of at least 250lbs. To lower the center of gravity we recommend mounting the rack in the folded or collapsed position. If clearance allows always mount the bike rack in the deepest of the two 5/8" hitch pin locations which will bring the rack closer to the rear of the vehicle. Install 5/8" hitch pin or 5/8" hitch pin lock to secure the rack to the hitch receiver on the vehicle. Tighten the hitch wedge using a 9/16" wrench or ratchet until the rack no longer wobbles in the hitch receiver. **Use caution not to overtighten, once the wedge is engaged further tightening will not improve stability.** To remove the rack simply loosen the 9/16" bolt on the front of the hitch a few turns. Then remove the 5/8" hitch pin. The rack can now be slid out of the hitch receiver and removed from the vehicle. If the rack does not easily slide out of the hitch receiver gently shake or rock the rack side to side, this will cause the hitch wedge to fully release and make it easier to remove the rack.



Folding the Rack

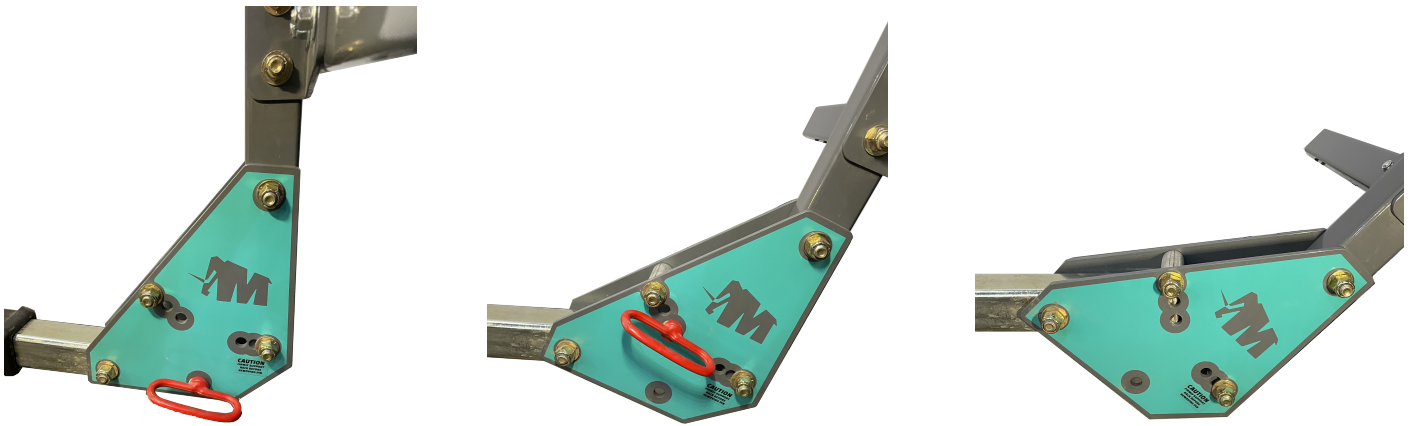
It is very important that all bikes are removed from the rack before attempting to fold the rack at the center pivot. Simply remove the 1/2" pin from the center pivot while supporting the upper mast. Once the pin is removed gently lower the upper mast and place the pin through the pivot plates and through the lower mast at the second pin hole location on the pivot plates. The rack can be transported in this position without any cargo attached.



MAMMOTH MOUNTS

Pivoting the Rack

It is very important that all bikes are removed from the rack before attempting to pivot or adjust the rack. Failure to do so could result in serious injury. When pivoting the rack to access the rear of the vehicle simply remove the 1/2" pin from the side plates while firmly supporting the mast of the rack. Gently let the mast downward until it rests against the aluminum spacer. If you would like the rack to tilt less the 1/2" pin can be placed in the holes adjacent to the aluminum spacer and the hitch will rest against the pin rather than the aluminum spacer (the pin does *not* go through the hitch at this location). This position is for accessing the rear of the vehicle only and cannot be used while the vehicle is in motion.



Maintenance

To ensure the longevity and safe use of your Mammoth rack it is important that the rack is regularly maintained. Check all bolts including the hitch wedge bolt before each use. Monitor pivot points for wear, if plastic UHMW washers are beginning to show signs of wear replace with new UHMW washers. The hitch wedge comes pre-lubricated with anti seize compound on the threads, if the wedge bolt becomes difficult to turn relubricate with anti seize compound. We recommend removing the rack from the receiver every two weeks to clean the receiver to ensure that the rack does not seize in the receiver.

Remove road debris off nuts and bolts to prevent corrosion.

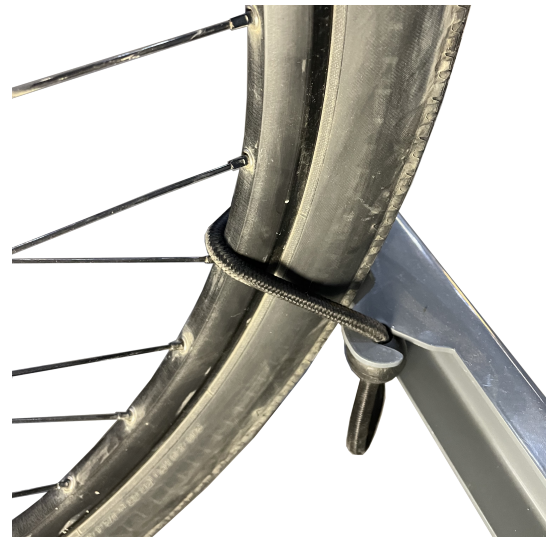
Routinely monitor the condition of the handle bar brackets and wheel holders and if the rubber or bungee begins to show signs of wear or deterioration replace with new pieces. Failure to monitor these pieces may result in damage after prolonged use. Each Mammoth rack comes coated with a durable powder coat coating. In the unlikely event that the paint is chipped it is important that all chips are touched up with paint to ensure that the rack does not begin to rust.

MAMMOTH MOUNTS

Bike Mounting

Always load the rack from left to right and unload the rack from right to left. To mount the bikes simply grab each bike by the front fork and the rear seat stay. Place the handlebars in the handlebar bracket so that the stem is positioned between the two forks on the bracket. Take caution when loading any bike with handlebar or stem mounted accessories as the brackets may damage these accessories. Use the rubber strap on the handlebar bracket to go over the handle bar and down to the mounting post. The rubber strap should *not* go over the stem of the bike. Align the rear wheel to the center of the corresponding rear wheel holder. Secure the rear wheel in place using the bungee. A conventional mountain bike will use the ball as a means of securing the bungee in the rear wheel holder, a fat bike will use the loop of the bungee as a means of securing the rear wheel in the wheel holder as it requires extra length. The rear wheel bungee can be adjusted by tying the knot in a separate location. Stagger the pedals of each bike to ensure that they do not make contact with the adjacent bike(s). Different handlebar shapes or sizes may cause the bikes to sit at slightly different angles. Load the bikes in an order that maximizes the clearance between each bike. To remove the bikes simply follow these steps in reverse while unloading from right to left.

Note: If using road bikes we recommend removing the adjacent handlebar bracket to prevent the drop bars from touching the adjacent bracket. In this scenario a four bike rack would carry two road bikes and a six bike rack would carry three road bikes. On a four bike rack you would be required to remove only the second handlebar bracket (bikes would mount in the # 1 and 4 position on the rack). On a six bike rack you would be required to remove the second and fifth handlebar brackets (bikes would mount in the #1, 4 and 6 position on the rack).



MAMMOTH MOUNTS

Important Warnings

Inadequately secured bikes and racks that are mounted or used incorrectly can come loose during travel and cause serious accidents. It is the owners responsibility to ensure that installation, handling and use are carried out in accordance with this manual and the vehicles owners manual. These instructions should be kept together with the vehicles operating instructions and carried in the vehicle when in use and en route.

Check attachment hardware and load for tight fit and function:

- Before the start of any journey
- After driving a short distance following a rack or load install
- At regular intervals on long journeys
- More frequently on rough terrain
- After interruption of a journey during which the vehicle was left unsupervised (check for damage due to outside intervention)

Do not exceed the maximum load for your rack (220lbs), the maximum load specified by the vehicle manufacturer or the maximum tongue weight specified by the hitch manufacturer. Load shall be uniformly distributed while maintaining the load as close to the center of the rack as possible. Bikes should not be loaded in any way that causes them to extend past the vehicle and increase the overall vehicle width beyond local transportation regulations.

Do not use any 3rd party hitch adapters or hitch extensions to mount the rack to the vehicle or trailer.

Do not use rack Off-Road*. (*Rough, washed out, boulder-and-rut-strewn backroads)

- Smooth gravel roads are not considered off-road

Do not take the rack through automatic carwash.

Do not use rear bicycle fenders with this product.

This rack has not been tested for RV or trailer use. Use on an RV or trailer is at the owners discretion and will void the warranty.

Be aware that the vehicle's driving characteristics and braking behaviour (including in curves) might change and that the vehicle might become vulnerable to side winds when the rack is fitted.

Depending on the carrier model, the car's tail lights can be obstructed. If that is the case, an external light board must be fitted.

An additional number plate might be required. This should be attached to the appropriate part of the carrier in accordance with local laws.

The vehicle's speed must always be adjusted to the load being carried and the current driving conditions, such as the road type, road quality, wind conditions, traffic intensity and applicable speed limits, but must under no circumstances exceed 130 km/h. Applicable speed limits and other traffic regulations must always be observed.

Drive slowly over speed bumps, maximum speed 10 km/h.

Be aware that wind noise may be generated during transport and may vary depending on the vehicle and load.

For reasons of fuel economy and environmental impact as well as the safety of other road users, the rack must be removed from the vehicle when not in use.

If the vehicle is equipped with an automatic boot or tailgate opening function, this function must be disabled and the luggage compartment must be opened manually when the rack is fitted, to avoid damage to the vehicle and/or the rack.

MAMMOTH MOUNTS

Warranty

LIMIT OF LIABILITY

THIS WARRANTY ONLY COVERS REPAIR, REPLACEMENT OR REFUND FOR THE COVERED MAMMOTH BICYCLE PRODUCTS INC FOUR OR SIX BIKE VERTICAL BIKE RACKS. ANY DAMAGE TO VEHICLE OR PROPERTY IS NOT COVERED BY THIS WARRANTY. PERSONAL INJURY IS NOT COVERED BY THIS WARRANTY.

Mammoth Bicycle Products Inc honors the structural warranty on all Mammoth Bicycle Products brand products for original owners of the product for a period of 24 months from original date of purchase. Warranty is not transferable.

If a Mammoth rack that is covered by the terms of this warranty and is determined by Mammoth Bicycle Products Inc, to be defective, Mammoth Bicycle Products Inc will repair or replace the defective parts. Mammoth Bicycle Products Inc may choose in some cases to offer the owner a refund of up to the original purchase price of the product in lieu of repairing or replacing the product.

The warranty does not cover any conditions that are beyond Mammoth Bicycle Products Inc control. This includes, but is not limited to, the following: excessive loading, improper assembly, improper installation, theft, or any use that is not consistent with the user guide that is included with the product.

The Mammoth warranty does not cover normal wear and tear, scratches, cosmetic oxidation, accidents, or damage due to unauthorized repairs or modifications. Wear parts include: EPDM handlebar bungees, wheel holder bungees, HDPE pivot washers, rubber handlebar bracket protectors, decals.

If you are the original owner of a defective Mammoth product, please contact Mammoth Bicycle Products Inc at info@mammothmounts.com. A representative will work to quickly resolve the problem. If repairs are necessary, the owner will be responsible for the cost of returning the product to Mammoth for repair. No product should be returned to Mammoth without prior authorization from Mammoth staff.

