

Meeviz MV091

MEEVIZ MV091 Single Ebike Rack Instruction Manual

Model: MV091

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1. INTRODUCTION

This manual provides instructions for the safe assembly, installation, operation, and maintenance of your MEEVIZ MV091 Single Ebike Rack. This hitch-mounted bike carrier is designed to transport one bicycle, including heavy mountain bikes, e-bikes, EMTBs, and fat tire bikes, with a maximum capacity of 100 lbs. It is compatible with vehicles equipped with a 2-inch hitch receiver.



Image 1.1: The MEEVIZ MV091 Ebike Rack securely carrying a single bike on the rear of an SUV. This rack is designed to carry one bike or e-bike up to 100 lbs.

2. SAFETY INFORMATION

Read and understand all instructions before installing or using the bike rack. Failure to follow these instructions may result in property damage, personal injury, or death.

- **Weight Capacity:** Do not exceed the maximum weight capacity of 100 lbs (45 kg) for one bike. Ensure the combined weight of the bike and rack does not exceed your vehicle's hitch capacity.
- **Hitch Compatibility:** This rack is designed exclusively for 2-inch (50.8 mm) hitch receivers. Do not attempt to install on other hitch sizes.
- **Vehicle Clearance:** Always check for adequate ground clearance and rear clearance, especially when tilting the rack or driving over uneven terrain.
- **Secure Attachment:** Ensure all bolts, pins, and straps are securely fastened before each use. Periodically check tightness during long trips.
- **Bike Stability:** Always use the provided straps to secure the bike's wheels to the rack to prevent movement during transport.
- **Driving Habits:** Drive cautiously, especially when turning, braking, or driving over bumps. Avoid sudden maneuvers.
- **Rear Visibility:** Be aware that the bike rack and bike may obstruct your rear view. Use side mirrors and exercise caution when backing up.
- **Maintenance:** Regularly inspect the rack for wear, damage, or loose components. Replace any damaged parts immediately.

3. PACKAGE CONTENTS

Verify that all components are present before beginning assembly:

- Bike Rack (main assembly)
- Assembly Hardware (bolts, nuts, washers)
- Wheel Straps (for securing bike wheels)
- Instruction Manual (this document)

4. SETUP AND INSTALLATION

Follow these steps to install the MEEVIZ MV091 bike rack onto your vehicle's 2-inch hitch receiver.

1. **Assemble the Rack:** Follow the included assembly diagram to connect the main components of the bike rack using the provided hardware. Ensure all bolts are tightened securely.
2. **Insert into Hitch Receiver:** Slide the hitch arm of the bike rack into your vehicle's 2-inch hitch receiver. Align the hitch pin holes.
3. **Secure with Hitch Pin:** Insert the anti-wobble hitch pin through the aligned holes in the hitch receiver and the bike rack arm. Secure it with the provided clip or lock. The anti-wobble design ensures a tight connection, minimizing movement during travel.
4. **Adjust Platform (if necessary):** The rack features a side-to-side adjustable platform. If carrying a bike with an unusual weight distribution, you can fine-tune the platform's position to ensure optimal balance.
5. **Adjust Wheel Cradles:** The wheel cradles can be adjusted forward and backward to accommodate various bike lengths, from children's bikes to long-wheelbase e-bikes. Position them to match your bike's wheelbase.

Plenty of Clearance Zero Contact



Image 4.1: The MEEVIZ MV091 bike rack attached to a vehicle's hitch receiver, showing its robust construction and readiness for bike loading.

5. OPERATING INSTRUCTIONS

5.1 Loading a Bike

1. **Position the Bike:** Place your bike onto the rack's platform, ensuring the wheels rest securely in the adjustable wheel

cradles.

2. **Secure the Front Wheel:** Use the upright arm to clamp down on the front wheel. This design secures the bike exclusively by the tires, preventing contact with the frame and eliminating the risk of scratches or paint damage.
3. **Strap the Wheels:** Use the provided wheel straps to firmly secure both the front and rear wheels to the rack. This ensures no wobble during towing or transport, even on rough roads or sharp turns.



Image 5.1: Detailed view of how the bike's wheels are secured to the rack, highlighting the scratch-free and stable transport mechanism.

5.2 Tilting the Rack

The MEEVIZ MV091 features a tilt-down design for convenient access to your vehicle's trunk or tailgate, even with a bike loaded.

1. **Locate Release Mechanism:** Identify the tilt release lever or pin on the rack's base.

2. **Engage Tilt:** Follow the specific instructions for your rack model to disengage the locking mechanism and carefully tilt the rack downwards. Ensure you have a firm grip on the rack and bike during this process.
3. **Access Trunk:** Once tilted, you can access your vehicle's rear cargo area.
4. **Return to Upright:** After accessing your trunk, carefully lift the rack back into its upright position until the locking mechanism re-engages securely. Verify it is locked before driving.



Image 5.2: The smart tilting design of the MEEVIZ MV091 rack, demonstrating how it provides easy access to the vehicle's trunk or tailgate.

5.3 Folding the Rack for Storage

When not in use, the rack can be folded up to save space.

1. **Remove Bike:** Ensure no bike is loaded on the rack.
2. **Locate Fold Mechanism:** Find the folding release mechanism, typically a pin or lever.
3. **Fold Up:** Disengage the mechanism and carefully fold the rack upwards towards the vehicle until it locks into the storage position.

Folds Away Folds Up When Not In Use



Image 5.3: The MEEVIZ MV091 bike rack in its folded-up position, illustrating how it saves space when not actively transporting a bike.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your bike rack.

- **Cleaning:** Clean the rack periodically with mild soap and water. Rinse thoroughly and dry to prevent rust.
- **Lubrication:** Apply a small amount of grease or lubricant to moving parts, such as the tilt mechanism and folding joints, to

ensure smooth operation.

- **Inspection:** Before each use, inspect all components for signs of wear, corrosion, cracks, or damage. Check all bolts, pins, and straps for tightness and integrity.
- **Storage:** When not in use, store the bike rack in a dry, protected area to prevent exposure to harsh weather conditions.

7. TROUBLESHOOTING

If you encounter issues with your MEEVIZ MV091 bike rack, refer to the following common problems and solutions:

- **Rack Wobbles in Hitch:**
Solution: Ensure the anti-wobble hitch pin is fully inserted and tightened. Check that the hitch receiver is clean and free of debris.
- **Bike Not Stable on Rack:**
Solution: Verify that the upright arm is firmly clamped on the front wheel. Ensure both wheel straps are tightly secured. Adjust the wheel cradles and platform for optimal bike fit and balance.
- **Difficulty Tilting/Folding:**
Solution: Check for any obstructions. Ensure the release mechanism is fully disengaged. Apply lubricant to the pivot points if movement is stiff. Do not force the mechanism.
- **Scratches on Bike Frame:**
Solution: The MV091 is designed for tire-only contact. If scratches occur, re-evaluate bike placement and ensure no part of the frame is touching the rack directly. Always use the wheel straps to prevent bike movement.

8. SPECIFICATIONS

Model Number	MV091
Brand	Meeviz
Capacity	1 Bike
Load Capacity	100 lbs (45 kg)
Hitch Receiver Size	2-inch
Material	Alloy Steel
Color	Black
Item Dimensions (L x W x H)	65.35 x 27.56 x 38.58 inches
Item Weight	32 lbs (14.5 kg)
Foldable	Yes
Mounting Type	Strap, Wheel Cradle
Compatible Vehicle Types	Car, RV, SUV, Trailer, Truck, Van

9. WARRANTY AND SUPPORT

The MEEVIZ MV091 Single Ebike Rack comes with a **Lifetime Warranty** from the manufacturer. For warranty claims, technical assistance, or any questions regarding your product, please contact MEEVIZ customer service. Refer to the product packaging or the official MEEVIZ website for the most current contact information.

When contacting support, please have your model number (MV091) and proof of purchase available.

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Example: How do I reset this device or fix this error?

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Model number, symptoms, what you tried, or the section of the manual you are using.

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