MOONCOOL SOZXCPJ-SLCHTJ-UUS7

MOONCOOL Folding Hitch Trike Rack Instruction Manual

Model: SOZXCPJ-SLCHTJ-UUS7

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Introduction

This manual provides detailed instructions for the assembly, operation, maintenance, and troubleshooting of your MOONCOOL Folding Hitch Trike Rack. Please read this manual thoroughly before installation and use to ensure safe and proper handling of the product.

The MOONCOOL Folding Hitch Trike Rack is designed to transport adult tricycles with a maximum capacity of 170 lbs. It accommodates fat tires up to 5 inches wide and tricycles with a wheelbase between 42 and 59 inches. The rack features a 2-inch receiver mount for compatibility with most cars, SUVs, vans, and RVs.

Safety Information

- Always ensure the rack is securely installed into the vehicle's hitch receiver before loading any tricycle.
- Do not exceed the maximum load capacity of 170 lbs.
- Verify that all straps and fasteners are tightened and secure before driving.
- Regularly inspect the rack for any signs of wear, damage, or loose components.
- Be aware of the increased length and width of your vehicle when the rack and tricycle are installed, especially when backing up or turning.
- Distribute the weight of the tricycle evenly on the rack.

Setup and Installation

Follow these steps to assemble and install your MOONCOOL Folding Hitch Trike Rack.

1. Unpacking and Component Identification

Carefully remove all components from the packaging. Verify that all parts listed in the packing list are present and undamaged.

2. Main Arm Assembly

Insert the anti-vibration Z6 component inside the main arm before attaching it to the hitch receiver.

Video: This video demonstrates the assembly process of the hitch-mounted trike rack, including component identification and step-by-step installation.



Image: This diagram illustrates how the main arm can be adjusted 90 degrees after pulling the plastic wrench, and how the rubber strap passes through the strap buckle for secure fastening. Three interchangeable rubber straps are included.

3. Attaching to Vehicle Hitch

Slide the main arm of the rack into your vehicle's 2-inch hitch receiver. Secure it with the provided hitch pin and clip. Ensure the connection is tight and there is no excessive wobble.

4. Adjusting Wheel Trays and Straps

Adjust the wheel trays to match the wheelbase of your tricycle (42.1-59 inches). Ensure the trays are positioned to support the tricycle's wheels properly. The rack is designed for wheel frame widths up to 5 inches.



Image: This image displays the trike rack installed on the rear of an SUV with a tricycle loaded. It highlights the easy angle adjustment feature and the use of ratchet straps for enhanced stability during transport.

Operation

1. Loading Your Tricycle

1. Ensure the rack is in the lowered position for easier loading.
2. Carefully roll or lift your tricycle onto the rack, aligning the wheels with the wheel trays.
3. Secure the tricycle using the provided rubber straps and ratchet straps. Ensure all three wheels are firmly held in place to prevent swaying during transit.
4. Once the tricycle is secured, lift the rack to its upright transport position. Ensure it locks securely into place.



Image: A blue tricycle is shown mounted on the MOONCOOL hitch rack, attached to the rear of an SUV. This demonstrates the rack's capacity for large wheel frames (5 inches wide) and its ability to prevent swaying.



Image: This image provides a rear view of a vehicle with a tricycle securely mounted on the MOONCOOL rack, traveling on a road. It highlights the rack's 170 lbs maximum capacity.

2. Unloading Your Tricycle

1. Lower the rack to the loading position.
2. Release all straps and fasteners securing the tricycle.
3. Carefully remove the tricycle from the rack.

3. Folding the Rack for Storage

When not in use, the rack can be folded for compact storage. Follow the instructions for adjusting the main arm to fold it upwards or downwards, as shown in the setup section. Ensure all moving parts are securely latched when folded.

Maintenance

- **Regular Cleaning:** Clean the rack periodically with mild soap and water to remove dirt, road grime, and salt. Rinse thoroughly and dry to prevent corrosion.
- **Inspection:** Before each use, inspect all bolts, nuts, pins, and straps for tightness and wear. Replace any worn or damaged components immediately.

- **Lubrication:** Apply a light lubricant to moving parts and pivot points as needed to ensure smooth operation.
- **Storage:** Store the rack in a dry place when not in use to protect it from weather elements.

Troubleshooting

Problem	Possible Cause	Solution
Rack wobbles excessively in hitch receiver	Hitch pin not fully tightened; anti-vibration component not installed or incorrectly installed.	Ensure hitch pin is fully tightened. Verify the anti-vibration Z6 component is correctly inserted into the main arm.
Difficulty loading/unloading tricycle	Rack not fully lowered; tricycle not aligned properly; straps too tight.	Ensure the rack is in the fully lowered position. Adjust the tricycle's position. Loosen straps before attempting to unload. Consider seeking assistance for loading/unloading if needed due to tricycle weight or rack height.
Tricycle sways during transport	Straps not secured tightly enough; wheel trays not adjusted correctly.	Re-tighten all rubber and ratchet straps. Ensure wheel trays are adjusted to the correct wheelbase and tire width. Verify the tricycle is centered on the rack.
Tailgate hits the rack when opened (for pickup trucks)	Vehicle design specific issue.	A hitch extender may be required to provide additional clearance for the tailgate.

Specifications

Feature	Detail
Model Number	SOZXCPJ-SLCHTJ-UUS7
Brand	MOONCOOL
Load Capacity	170 Pounds
Vehicle Service Type	Car, SUV, Van, RV
Material	Metal
Mounting Type	Hitch (2-inch receiver)
Automotive Fit Type	Universal Fit
Compatible Tire Width	Up to 5 inches

Feature	Detail
Compatible Wheelbase	42.1 - 59 inches
Net Weight	49.6 lbs



Image: This diagram provides key dimensions and specifications for the trike rack, including applicable body length, body width, wheelbase (42.1-59 inches), wheel frame width (5 inches), and net weight (49.6 lbs).

Warranty and Support

Warranty Information

For specific warranty details and duration, please refer to the documentation included with your purchase or contact MOONCOOL customer support directly. General return policies typically allow for returns within 30 days of purchase.

Customer Support

If you encounter any issues or have questions regarding your MOONCOOL Folding Hitch Trike Rack, please contact MOONCOOL customer support. Contact information can usually be found on the

manufacturer's website or on your purchase receipt.

Online resources and FAQs may also be available on theMOONCOOL Store Page.