



Atwood Mobile Products

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LITERATURE NUMBER 297-333470

Bike Rack for Recreational Vehicle Ladder

Model # 493433

This Bike Rack design has been verified to the guidelines stated in this document for use on recreation vehicle ladders.

SERVICE CALLS & QUESTIONS

Location and phone numbers of qualified Service Centers can be found at our website <http://www.atwoodmobile.com> or call 866-869-3118 to locate a Service Center.

SAFETY ALERT SYMBOLS

Safety Symbols alerting you to potential personal safety hazards.
Obey all safety messages following these symbols



WARNING

avoid possible
injury or death



CAUTION

avoid possible
injury and/or property damage



WARNING

MAY CAUSE PERSONAL INJURY OR DEATH

For your safety and protection, it is important that this installation manual is read and understood before installation or use. Failure to properly install the unit or attempting to modify it in any way can be extremely hazardous and may result in property damage and personal injury and will void the warranty.



CAUTION

MAY CAUSE PERSONAL INJURY OR PROPERTY DAMAGE

Incorrect or improper installation may cause
personal injury and/or property damage.

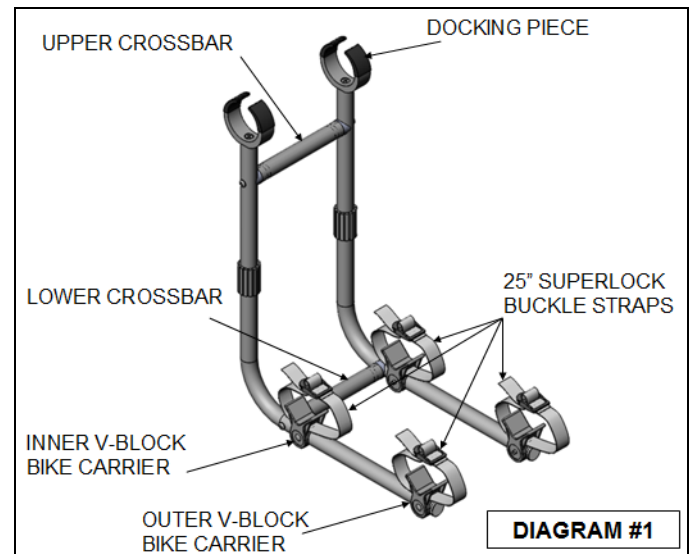
•Installation •Operation •Maintenance

Effective 01/16/2014

GENERAL INFORMATION

Package Contents:

- Atwood Bike Rack: Quantity 1
 - with Superlock Buckle strap – 25": Quantity 4*
(*pre-installed on V-blocks)
- Protective Split Round Foam – 3": Quantity 3
- Strap Pack: 1 (contains 6 straps)
 - consisting of the following:
 - Velcro strap – 12": Quantity 1
 - Superlock Buckle strap – 54": Quantity 1
 - Superlock Buckle strap – 42": Quantity 1
 - Superlock Buckle strap – 30": Quantity 3
- Instruction Sheet



PURPOSE

This product is designed for installation onto a permanently affixed rear-mounted recreational vehicle ladder to provide an area where bicycles can be stowed outside the vehicle.

-The **MAXIMUM WEIGHT CAPACITY** of the Bike Rack is 150 lbs.

Before you begin...



CAUTION

MAY CAUSE PERSONAL INJURY OR PROPERTY DAMAGE

It is the responsibility of the installer to inspect the permanently mounted RV ladder to determine its condition, installation, and rated capacity will allow the use of this Bike Rack. Seek a qualified technician to determine if your permanently mounted RV ladder is installed properly and is fit for use with this Bike Rack.

Ladder Specifications:

- The ladder should be of a minimum 1" diameter aluminum or steel tubing common design with steps at least 1-3/4" wide.
- The ladder should be of a common design with spacing between the vertical rails of at least 9".
- The ladder should be securely mounted.
- The ladder should have a minimum rated capacity of 150 pounds.
- The ladder should be in good condition with no dented, cracked or rusted parts.

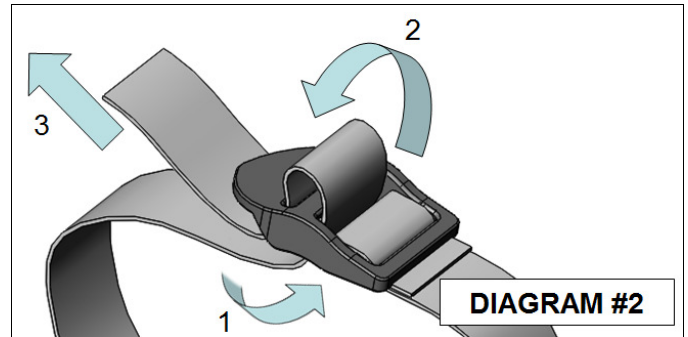


CAUTION

MAY CAUSE PERSONAL INJURY OR PROPERTY DAMAGE

Become familiar with the Superlock strap buckle to make sure all of your straps are threaded properly. When threaded properly, the strap will allow you to adjust and tighten as necessary (See Diagram #2). If threaded improperly, the strap buckle will slip and the strap will loosen.

Refer to Diagram #2 showing how the buckle is to be threaded. The Superlock buckle requires the strap to be straight in the section it is applied in order to apply proper locking force within the buckle; NEVER use the Superlock buckle on a curved section of the strap.



In all cases, after threading the buckle and installing each strap, make sure all straps are pulled tight.

INSTALLATION

How to mount the Bike Rack to your permanently-mounted RV ladder.

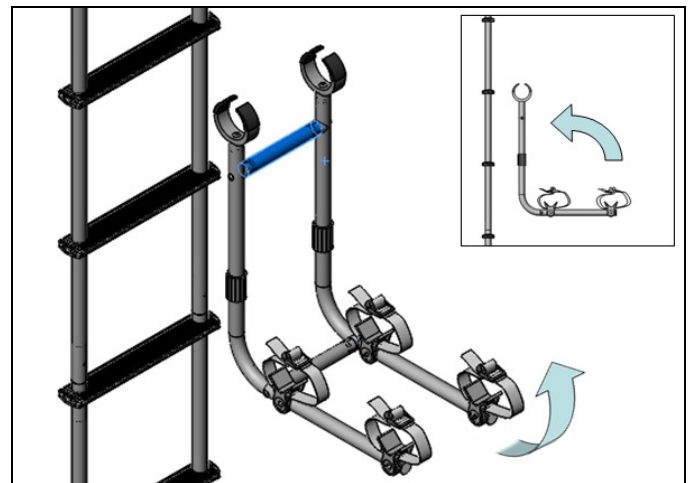


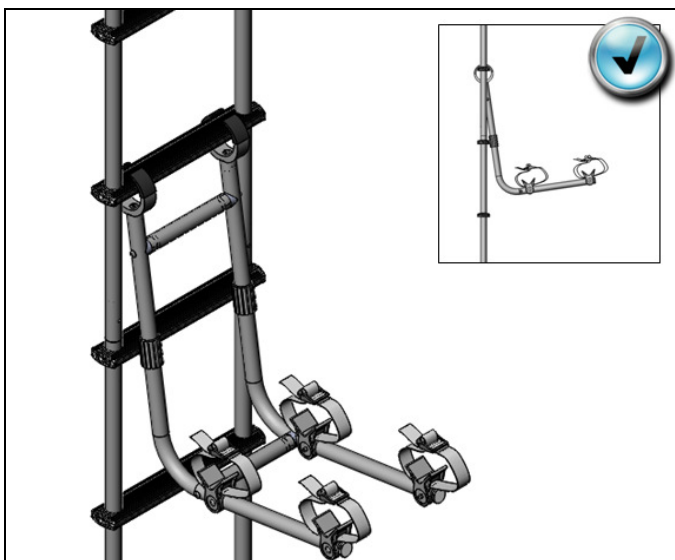
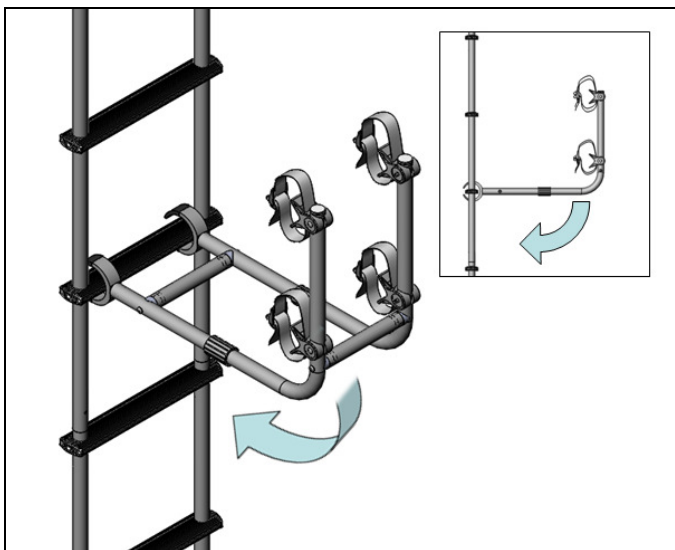
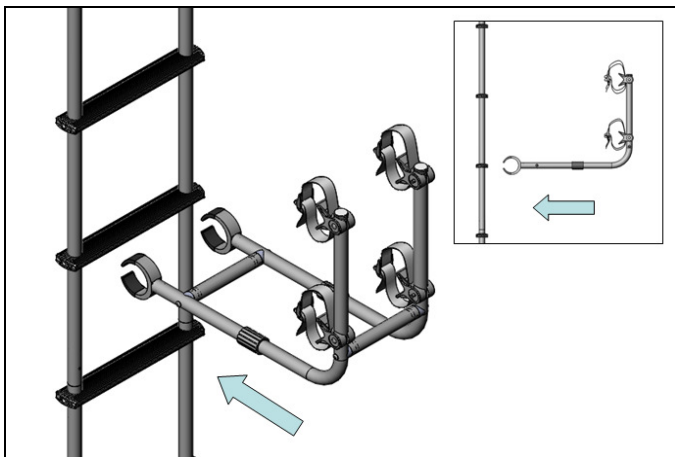
CAUTION

MAY CAUSE PERSONAL INJURY OR PROPERTY DAMAGE

Install at a height sufficient for the mounted rack to have adequate clearance from the lowest point of the bike to the road surface. Verify the loaded bike does not extend past the side of the RV or cause any interference and/or obstruct the driver's view.

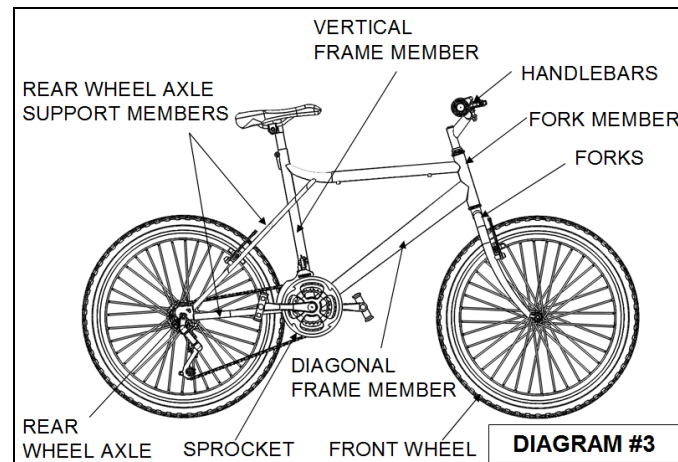
1. Determine the appropriate rung of the ladder to mount to, normally the step immediately above the ladder's support standoffs, approximately the 4th step up. Install the Atwood Bike Rack onto the ladder following the steps pictured below.



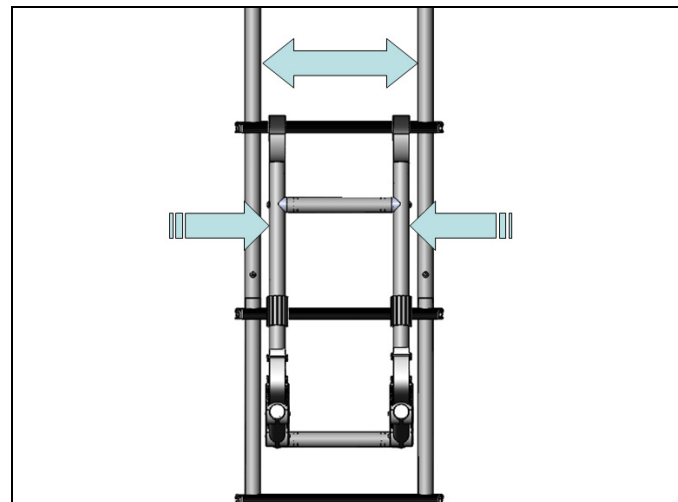


2. Installed height of the Bike Rack will be determined based on the size of the bicycle to be mounted. To determine the best installed height, place the largest bicycle on the rack by placing the vertical frame member (see Diagram #3) in the outer V-block carrier (see Diagram #1). The front wheels of the bike(s), when mounted, must be at or above the bottom of the vehicle bumper. If mounted lower, the bikes may drag when the

vehicle goes up or down a ramp. If height is a concern, remove the bike(s), remove the Bike Rack and move the Bike Rack up to the next step of the ladder; replace bike(s) to check fit. When operating height has been determined, remove bike(s) and continue with Bike Rack installation.



3. With your Bike Rack attached onto the proper step of your ladder, center it between the rails of the ladder.

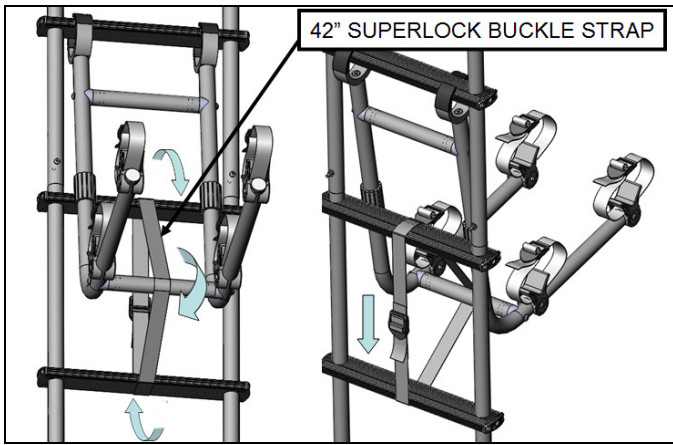


CAUTION

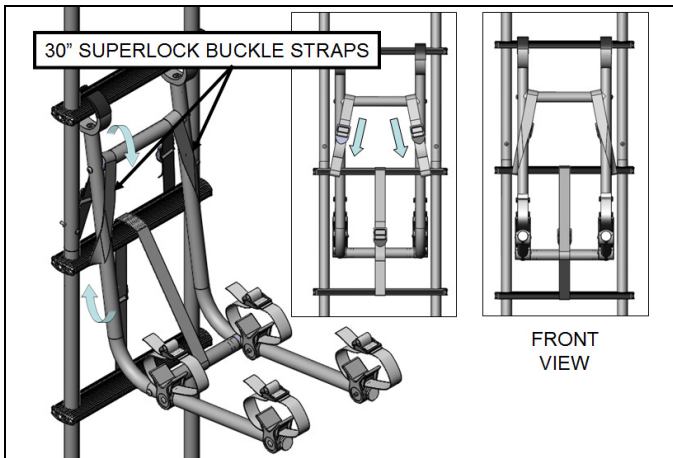
MAY CAUSE PERSONAL INJURY OR PROPERTY DAMAGE

Failure to properly secure the Bike Rack to the ladder may cause damage or injury. Always verify that the Bike Rack is securely fastened to the ladder.

4. Install (1) 42" strap with Superlock buckle by placing the strap around two steps of the ladder above and below the lower crossbar of the Bike Rack as shown below, with the buckle in the straight section of the strap between the upper and lower step and behind the ladder. Pull on the end of the strap until strap is tight.



5. Install (2) 30" straps with Superlock buckles by first placing one of the straps over the top of the upper crossbar with the buckle in back of the ladder. Run the strap to the outside of the Bike Rack and under the bottom of the step immediately below the upper crossbar. With the buckle in the straight section of the strap between the upper crossbar and lower step and behind the ladder, pull on the end of the strap until strap is tight. Repeat on the opposite side with the second strap. Verify that the Bike Rack is now securely attached to your ladder.



OPERATION



CAUTION

MAY CAUSE PERSONAL INJURY OR PROPERTY DAMAGE

Failure to properly secure the bike(s) to the rack may cause damage or injury. Always verify that the bike(s) are securely fastened to the rack.



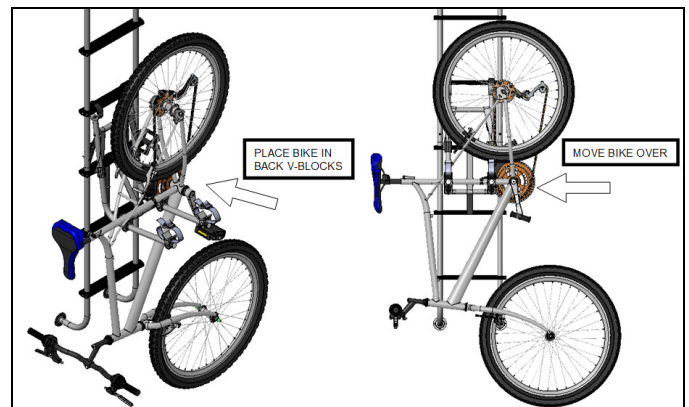
CAUTION

MAY CAUSE PERSONAL INJURY OR PROPERTY DAMAGE

Overtightening straps on bike frame or wheel may cause damage to the bike.

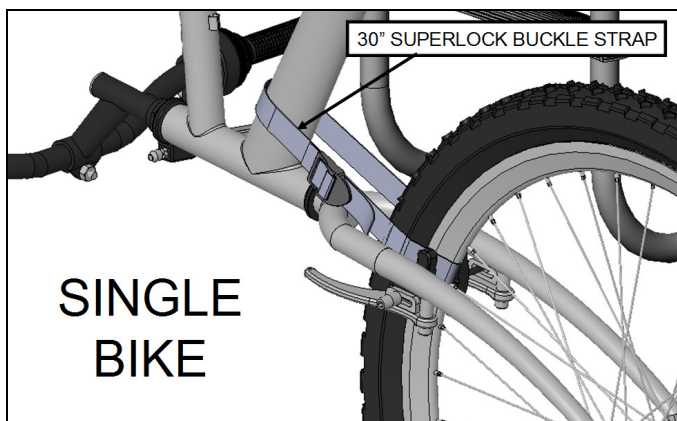
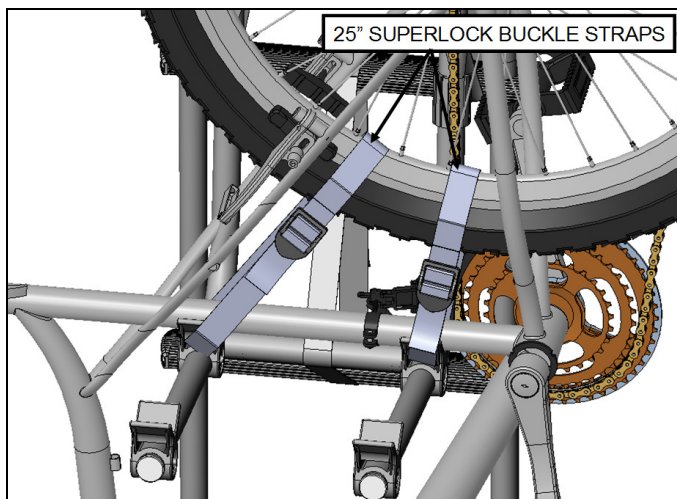
How to mount the bikes onto the rack

1. Unbuckle the 25" straps already mounted in the V-blocks. Roll the bike in front of the Bike Rack with the sprocket side facing the ladder (see Diagram #3). Raise the bike until it is perpendicular to the ground with the rear wheel up and the front wheel down. Slide the center opening of the bike over the Bike Rack rails and fit the bike's vertical frame member (see Diagram #3) into the inboard V-block carriers (closest to your ladder) (see Diagram #1). Position the bike on the V-block so that the rear wheel axle is located as far inboard of the ladder as possible. Check to see that bike seat or bike wheels does not extend beyond the sides of the RV and verify the Bike Rack and/or bike does not obstruct the driver's view of the road.

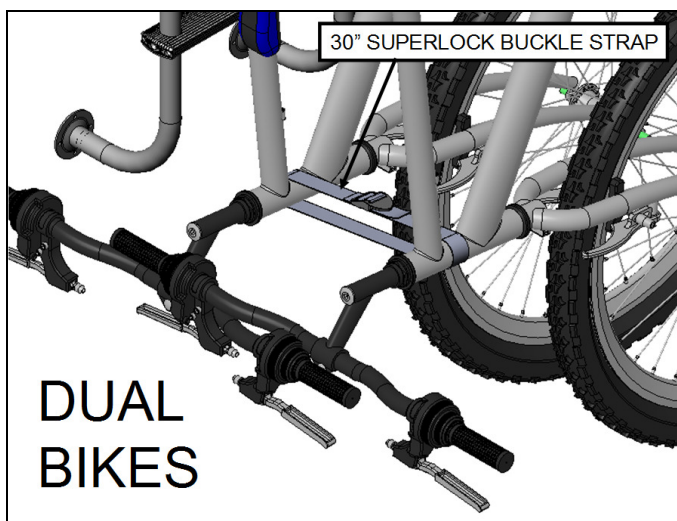


2. Secure the 25" straps around the rear wheel. Choose a location on the bike wheel that aligns the strap towards the bike's rear axle. This will assure that the bike wheel does not turn and produce slack in the strap while traveling. Pull straps tight, and make sure that Superlock buckle is in a straight section of the strap. Once the first bike is secured to the V-blocks, mount and secure the second bike to the V-blocks by following the same procedure.

3. For a single bike, install (1) 30" strap with a Superlock buckle by placing the strap through the front wheel and around the lower diagonal frame member nearest the wheel. Tighten to hold the front wheel rigid.

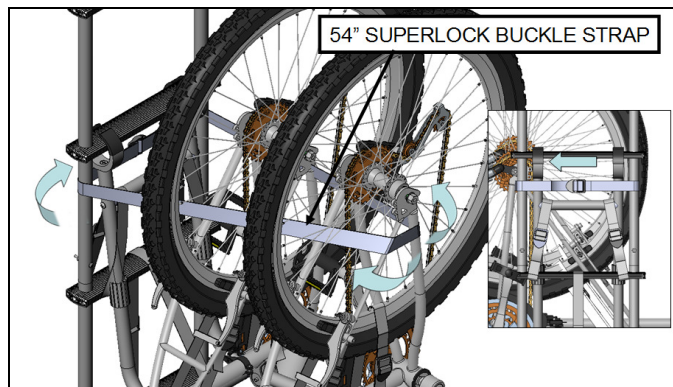


For a pair of bikes, install the bikes on the Bike Rack with the handlebars overlapping (see illustration below), then install (1) 30" strap with a Superlock buckle by placing the strap through the bike frame and around the bike frame's fork member of both bikes (see illustration below). Leave the strap slightly loose as it will tighten in the following steps.



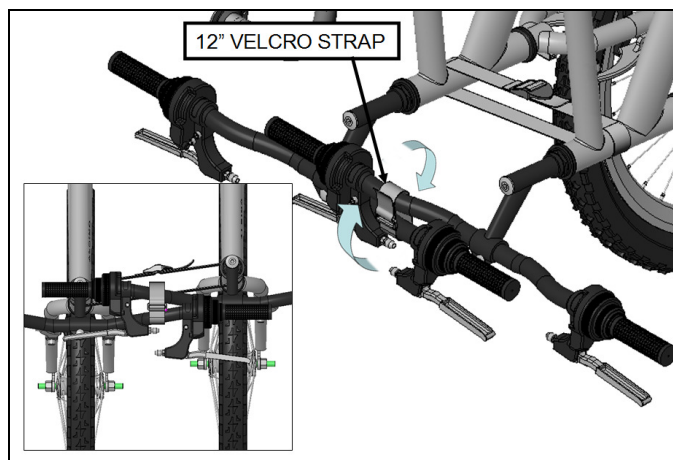
4. Install (1) 54" strap with Superlock buckle around the rear axle support members of the outer bike and through the rear wheel spokes. Continue to run the strap toward the outer rail on either side of the ladder, inserting the straps through the rear wheel spokes of the inner bike if

present. Wrap the strap around both rails of the ladder with the buckle in the straight section of the strap behind the ladder. Tighten strap until the bike(s) straighten up and become parallel with the ladder. For dual bikes, this step should tighten the previously installed strap around the bikes forks. If not, adjust the fork strap until tight.



5. Final strap...

Tie (1) 12" Velcro strap around the handlebars of the two bikes where they overlap. Tighten to keep the handlebars and front wheels from swinging.



Three pieces of split round foam (provided) can be inserted in any area where the bikes come into contact with each other or any part of the mounting surface or structure.

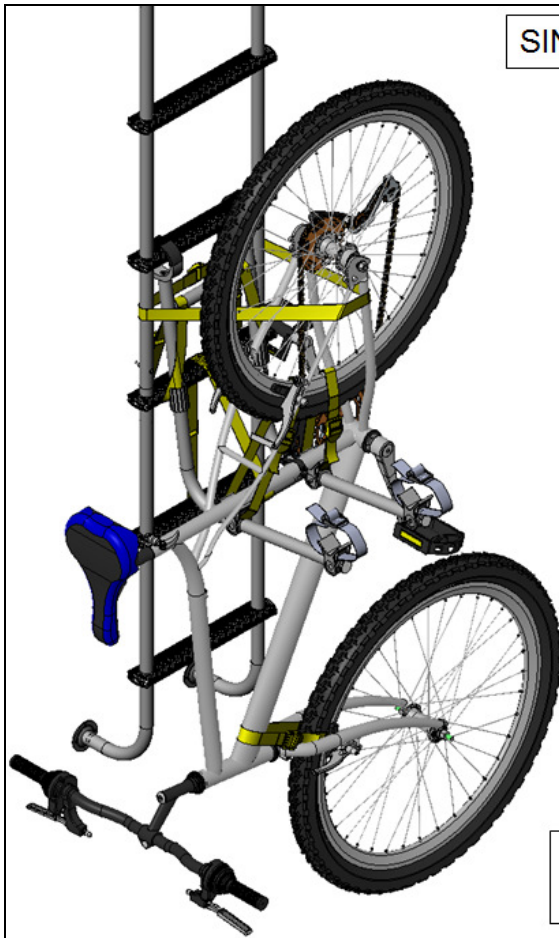


CAUTION

MAY CAUSE PERSONAL INJURY OR PROPERTY DAMAGE

Check the straps and bike position occasionally, especially if traveling on bumpy or unpaved roads. Adjust into correct position as necessary, ensuring all straps are tight at all times. It is the responsibility of the user to verify bikes are secure to rack and rack is secure to the ladder.

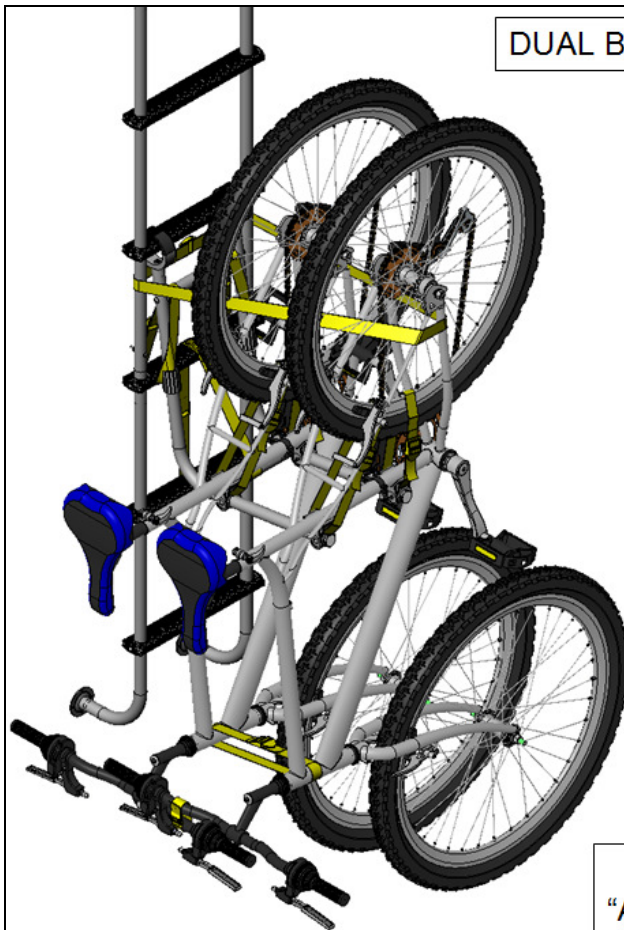
SINGLE BIKE



FULLY MOUNTED
"ALL STRAPS" VIEW



DUAL BIKES



FULLY MOUNTED
"ALL STRAPS" VIEW





WARNING

MAY CAUSE PERSONAL INJURY OR DEATH

Do not attempt to climb ladder with Bike Rack attached to ladder.

MAINTENANCE

The Bike Rack is made from durable materials and is intended for outdoor use. However, minor maintenance may be required periodically.

The Bike Rack may be cleaned with warm soapy water. Be sure to thoroughly rinse with clean water to retain finish. May be towel or air-dried.

Check to make sure all fasteners are tight before and after each use, and replace any missing fasteners before use. Do not use Bike Rack if any fasteners are damaged, broken or missing.

When Bike Rack is mounted and no bikes are present, loop and tighten all Superlock straps to make sure they stay with the Bike Rack. Failure to do so may result in straps becoming lost and will need to be replaced. Do not use Bike Rack without all required straps in place.

The Bike Rack is not intended to be a permanent fixture. If the recreational vehicle is placed into storage or is to remain stationary for an extended length of time it is recommended that the Bike Rack be removed from the ladder and stored separately. Minimizing the Bike Rack components' exposure to the elements or other hazards will prolong the life of the Bike Rack and its components.

Periodically inspect the Bike Rack tubing and/or V-blocks for any damage, cracks or broken pieces. Replace the rack if damaged, cracked or broken. Do not use Bike Rack if any components are damaged, broken or missing.

Periodically inspect the rack straps for cuts or tears. Replace any defective straps. Replacement straps can be ordered by contacting Atwood Mobile Products LLC. Do not use Bike Rack if any straps are damaged, broken or missing.

ATWOOD MOBILE PRODUCTS LLC LIMITED WARRANTY

Atwood Mobile Products LLC warrants to the original retail customer of products manufactured by Atwood Mobile Products LLC and subject to the below mentioned conditions, that this product will be free of defects in material and workmanship for the below specified period of time from the original date of purchase or manufacture. For the remainder of this document Atwood Mobile Products LLC will be referred to as Atwood. Atwood's liability hereunder is limited to the replacement of the product, repair of the product, or replacement of the product with a reconditioned product at the discretion of the manufacturer. This warranty is not transferable and is intended for original purchaser only. This warranty is void if the product has been damaged by accident, unreasonable use, neglect, tampering, or other causes not arising from defects in material or workmanship. The warranty extends to the original owner of the product and is subject to the following conditions.

- 1) Atwood will repair or replace any part defective in material or workmanship, after inspection by Atwood. This warranty includes labor charges per Atwood's Flat Rate Schedule as required to remove and replace the part. Service calls to customer's location and diagnostic time are not considered part of these charges and, therefore may be the responsibility of the owner.
- 2) In the event of a warranty claim, service may be performed at any approved OEM dealer location
- 3) Parts being replaced must be shipped to Atwood "Prepaid" in first class saleable condition and identified with a return goods number, unless other arrangements have been made. Credit for shipping costs will be included with the warranty claim. The defective parts become the property of Atwood and must be returned to Atwood.
- 4) Returned goods – Goods may not be returned without our consent. Requests for returns should be made within 10 days from receipt of our invoice. If the parts being returned are not defective, Atwood reserves the right to apply a 20% restocking fee. We cannot accept material which has been custom fabricated or modified from its original design.
- 5) This warranty applies only if the product is installed, repaired, maintained and operated according to the installation/service instructions. Any deviations from these recommended specifications must be approved in writing by Atwood.
- 6) The warranty period on replacement parts is the unused portion of the original warranty period.
- 7) Damage or failure resulting from misuse (including failure to seek proper repair service), misapplication or alterations is the owner's responsibility.
- 8) Atwood does not assume responsibility for any loss of use, loss of time, inconvenience, expense for gasoline, telephone, travel lodging, loss or damage to personal property, or revenues. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.
- 9) Any implied warranties are limited to the product's warranty period. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.
- 10) Replacement parts purchased outside of the original warranty carry a 90-day warranty.
- 11) Any action to enforce this warranty shall not be commenced more than 3 months after the expiration of this warranty.
- 12) THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR PURPOSE.

Product Specifications for products listed below are designed for use for their specific application. Any other use, unless authorized in writing by the Atwood Engineering Department, voids this warranty. Original date of purchase of unit refers to the date the consumer purchases the vehicle from a dealer. Date of manufacture refers to the date the item was produced by Atwood Mobile Products.

Racks – Two (2) years from original date of purchase of unit.

- 1) This limited warranty is valid only when the product is applied, installed, maintained and operated in accordance with this Atwood Installation, Maintenance and Operating Manual. Any deviation from these recommended specifications must be approved in writing by Atwood.
- 2) Any implied warranties are limited to the duration of this limited warranty as stated above. Atwood does not assume responsibility for consequential damage or loss, including loss of vehicle, loss of time, inconvenience, expense for gasoline, telephone, travel, lodging, loss or damage to personal properties, or loss of revenues. Atwood's maximum liability shall not exceed the cost of the goods. Some states do not allow limitations on how long an implied warranty lasts or limitations on consequential damages, so the above limitations may not apply to you. This limited warranty gives you specific legal rights which may vary from state to state.