



Atwood Mobile Products

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LITERATURE NUMBER 297-333468

Extension Ladder for Recreational Vehicle Ladder

Model # MHL2227

This Extension Ladder 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.

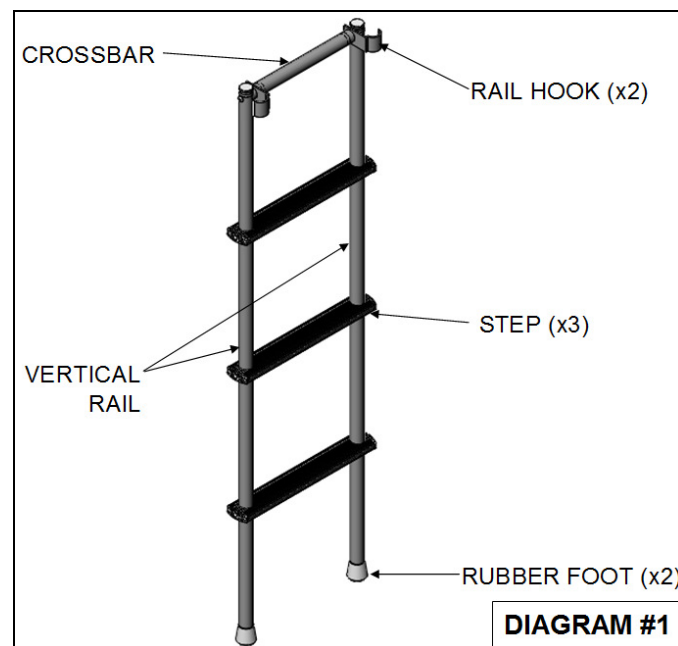
•Installation •Operation •Maintenance

Effective 01/16/2014

GENERAL INFORMATION

Package Contents:

- Atwood Extension Ladder: Quantity 1
- Instruction Sheet: Quantity 1



PURPOSE

This product is designed for installation onto a permanently affixed rear-mounted recreational vehicle ladder to provide additional steps below and increase accessibility to the rear-mounted recreational vehicle ladder.

-The **MAXIMUM WEIGHT CAPACITY** of the Extension Ladder is 300 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 Extension Ladder. Seek a qualified technician to determine if your permanently mounted RV ladder is installed properly and is fit for use with this Extension Ladder.

Vehicle Ladder Specification:

- The vehicle ladder should be of a minimum 1" diameter aluminum or steel tubing common design with steps at least 1-3/4" wide.
- The vehicle ladder should be of a common design with center-to-center spacing of the rails of 11-1/8".
- The vehicle ladder should be securely mounted.
- The vehicle ladder should have a minimum rated capacity of 300 pounds.
- The ladder should be in good condition with no dented, cracked or rusted parts.

INSTALLATION

How to mount the Extension Ladder to your permanently-mounted RV ladder.



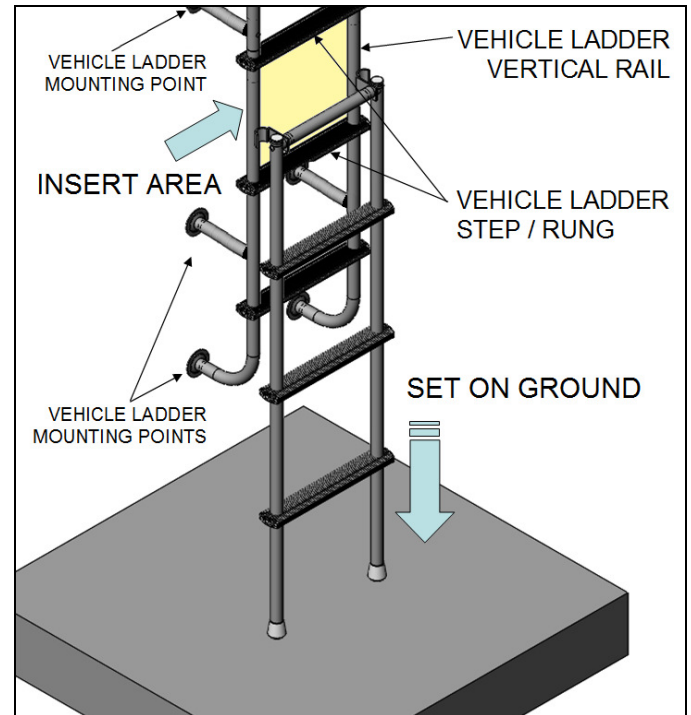
WARNING

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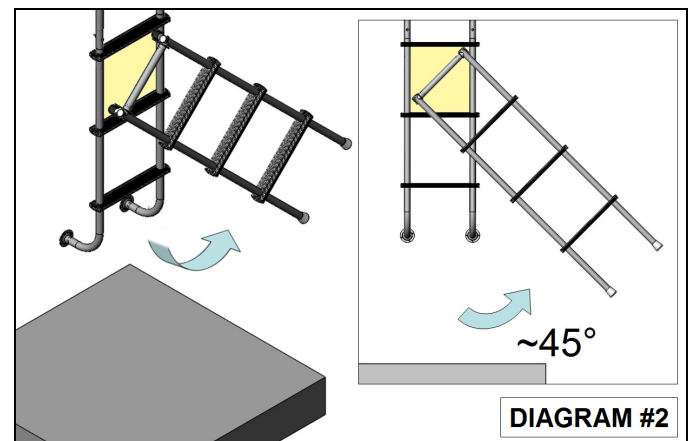
The Extension Ladder is not intended to be a permanent fixture. The Extension Ladder should only be applied when the vehicle is parked on level ground. Remove and properly store the ladder before starting or moving the vehicle.

1. In order to determine which opening between the rungs/steps of the vehicle's existing ladder to insert the Extension Ladder into, place the Extension Ladder's rubber feet on level ground and hold the Extension Ladder upright and vertical next to the vehicle ladder. In this position, make note of the height location of the Extension Ladder rail hooks and the corresponding

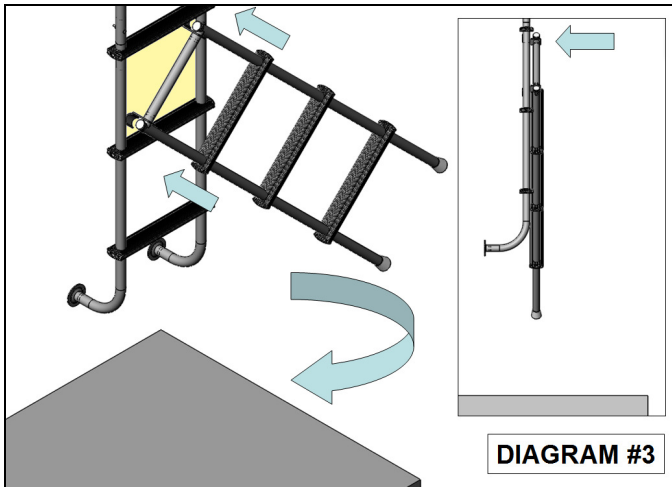
height location on the vehicle ladder rails. The Extension Ladder can be applied to any portion of the vehicle ladder rails where the Extension Ladder rail hooks are not obstructed by either or both a rung/step or a ladder mounting point at or within 2" below the Extension Ladder rail hook height location. If the rail hooks are in interference with a permanently mounted vehicle ladder component, then the Extension Ladder should be inserted just below the interfering component while ensuring that safe angle requirements are met (See Diagram #4 for Safe Angle Requirement).



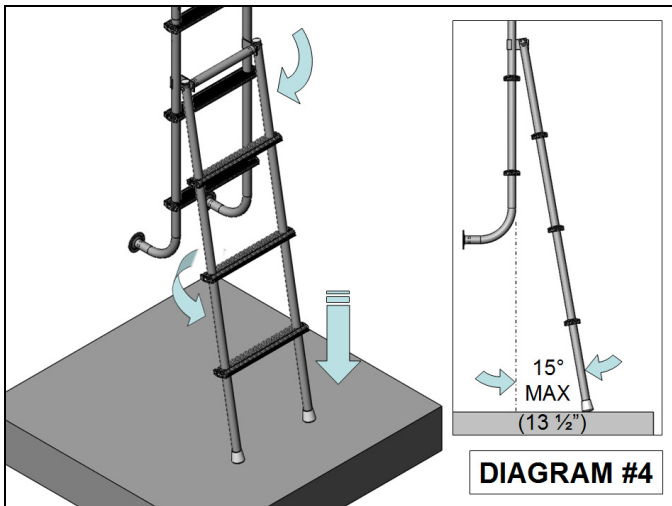
2. Once the appropriate insert area has been determined, lift and swing the bottom of the Extension Ladder to either side approximately 45° until the Extension Ladder rail hooks clear the insert area (See Diagram #2).



3. With the Extension Ladder rail hooks aligned to clear the vehicle ladder rails on either side of the insert area, insert the upper portion of the extension ladder into the insert area until the Extension Ladder rail hook openings are in a position to go onto the vehicle ladder rails.



4. With the Extension Ladder rail hooks in the insert area, swing the Extension Ladder back to upright position until both Extension Ladder rail hooks engage the vehicle ladder rails (see Diagram #3). Pull the bottom of the extension ladder out slightly but without exceeding the maximum application angle / distance ($\geq 15^\circ$ or 13-1/2". See Diagram #4). Slide the Extension Ladder down the vehicle ladder rails under the Extension Ladder rubber feet comes to rest firmly on level ground.



CAUTION

MAY CAUSE PERSONAL INJURY OR PROPERTY DAMAGE

Failure to properly secure the Extension Ladder to the vehicle ladder may cause damage or injury. Always verify that the Extension Ladder is securely fastened to the vehicle ladder when installed for use on the vehicle ladder. Always verify that the Extension Ladder is firmly resting on the ground when installed for use on the vehicle ladder. Never move the vehicle with the Extension Ladder installed for use on the vehicle ladder.

Make sure the rubber feet of the installed Extension Ladder can't slip. Once at rest, apply some weight to the bottom step/rung of the installed Extension Ladder to ensure the installed Extension Ladder is stable. If Extension Ladder is not secure, re-inspect the Extension Ladder to ensure no components are damaged, broken or missing. DO NOT use a ladder with damaged, broken, or missing components. Verify rails hooks are engaged. Re-position the Extension Ladder repeating the previous steps until secure.



CAUTION

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When vehicle is stationary for extended periods, always check the position of the Extension Ladder before each use. Adjust into correct position as necessary, ensuring ladder is secure every time before use. It is the responsibility of the user to verify the Extension Ladder is secure to the vehicle ladder and in the correct position.

OPERATION



CAUTION

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For comfort as well as safety, hands should be completely dry and footwear should have solid bottoms to provide better grip and support when climbing a ladder. Bare feet, soft sandals or "flip-flops" are not recommended.

When climbing onto the Extension Ladder, grab onto the rungs of the vehicle ladder using a hand-over-hand method. Always keep firm grips on the ladder as you ascend, only releasing one hand before reaching and grabbing the next location. While ascending and descending the Extension Ladder and/or vehicle ladder, always make sure feet are planted firmly on the occupied step before advancing to the next step.

MAINTENANCE

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

The Extension Ladder 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 Extension Ladder if any fasteners are damaged, broken or missing.

The Extension Ladder is not intended to be a permanent fixture. If the recreational vehicle is to be moved then the Extension Ladder needs to be removed from the vehicle ladder and stored separately. Storage is also recommended if the recreational vehicle is to remain stationary for an extended length of time as minimizing the Extension Ladder components' exposure to the elements or other hazards will prolong the life of the Extension Ladder and its components.

Periodically inspect the Extension Ladder tubing, ladder rail hooks and step components for any damage, cracks or broken pieces. Replace the Extension Ladder if damaged, cracked or broken. Do not use Extension Ladder if any components 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.

Ladders – 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.