



ROOF RACK INSTALLATION INSTRUCTIONS
(38", 48" and 58" RAIL LENGTHS)



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Before contacting/returning this product to your place of purchase, contact **Perrycraft, Inc.**® at 336-372-2545 for any technical questions, problems, missing parts, etc., upon opening your product and verifying all parts are present.

RETURNS: Any product to be returned must be returned to the place of purchase, and is subject to the seller's returns policy. *DO NOT* return to Perrycraft unless instructed to do so in writing.

IMPORTANT NOTES:

RACK LOCATION: Perrycraft's products are manufactured to be installed into the skin of the roof panel of vehicles. They are not designed to line up or be installed at the factory fitment points available on some vehicles.

INSTALLATION HARDWARE: The included hardware pack contains screws for securing this rack to a sheet metal roof or metal surface. To install this rack on fiberglass or composite camper tops, tonneau covers, or Jeep® tops, please contact your seller to purchase hardware pack HWAVTC-UV, or call 336-372-2545 to purchase directly from **Perrycraft, Inc.**®

SIDE RAIL CURVATURE: **Perrycraft, Inc.**® manufactures racks and rails that are size specific, not vehicle specific. Therefore, the bow of the rails (front to back) may need adjusting. Place the rails (without the stanchions) on the roof in the desired location. Ideally, the rails should match the roof curvature. The ends of the rails should touch the roof and the center should be no more than 3/16" off the roof surface. The rails can be adjusted (more bow or less bow) by placing the ends of the rails on supports and either pressing down from the top (to take away bow), or pressing down from the bottom (to add more bow). Rails are heat treated aluminum, therefore, very strong. Several attempts of adjustment may be required to get the correct curvature.

Retain these instructions. They are useful if contacting Perrycraft for information, parts, or service.

ITEMS NEEDED (NOT INCLUDED)

- Measuring Tape
- Masking Tape
- Marker
- Drill
- 1/8" Drill Bit
- Phillips Screwdriver
- Rag and Cleaner for roof

CONTENTS:

- 2 – Side Rails (Rails will be 14" shorter than last two numbers of part number (ex. AV3648-B, rails are 34"))
- 2 – Cross Bars (Cross bars will be 4" shorter than the first two number of part number (ex. AV3648-B, cross bars are 32"))
- 2 – Left Stanchions
- 2 – Left Stanchion Covers
- 2 – Right Stanchions
- 2 – Right Stanchion Covers
- 4 – Cross Bar Connectors
- 1 – Hardware pack
 - 4 – 1/4" Flat Washer
 - 1 – 5/32" Allen Wrench
 - 8 – #8 x 5/8" Truss Phillips A-B
 - 12 – #10 x 3/4" Pan Phillips Screw – Waxed
 - 4 – Neoprene Stanchion Pads (Universal)

ASSEMBLY AND INSTALLATION:

Installation will include assembling the rack, placing it on the roof and marking the hole locations, removing the rack and drilling pilot holes at the marked locations, cleaning the roof, and securing the rack to the roof.

1. Slide cross bar connectors onto cross bars (connector bracket facing out) with the slots of the connectors on the bottoms of the rails where the pre-drilled holes are.

2. Install #8 x 5/8" screws into cross bars through the slot opening of the connectors.

NOTE: Aventura's slip joint cross bar connectors are designed to give a greater opportunity for installations when the rails can't be installed perfectly parallel. Best effort should be made to install the rails parallel and with at least a portion of the cross bars sitting inside of the channels of the rails.

3. Loosen the connector screws with the Allen wrench and slide the cross bars onto the rails. Crossbars should be placed approximately 4 inches from the ends of the rails, so that the installation will be as "square" as possible.

4. Insert stanchions into rails. The open screw hole on the upper portion of the stanchion will be on the open side of the rail. Line up the holes and loosely install the remaining #8 x 5/8" screws.

5. Place assembled rack onto roof in desired location (approximately 2-3 inches forward of the back hatch joint) and adjust as necessary to get the rails as parallel as possible.

6. Secure the rack in the desired position using masking tape, making sure not to cover up hole locations. Mark the three hole locations in each stanchion and remove rack.

7. Drill pilot holes where marked using 1/8" drill bit going no deeper than 1/2", being careful not to penetrate interior headliner. Clean roof, removing all drill chips.
8. Place rack back onto roof, lining up with drilled holes. Place neoprene pads under each stanchion, flipping them as necessary to line up with each stanchion profile.
9. Put one 1/4" washer over the hole that is closest to the "toe" of the stanchions.
10. Using hand screwdriver, secure stanchions to roof using supplied #10 x 3/4" pan head waxed screws. Do not overtighten. Snug is enough.
11. Insert covers to matching stanchions (A-L cover to A-L stanchion, A-R cover to A-R stanchion). The vertical blade will insert at the rail/stanchion connection, with the cutout going around the screw shank. Press the toe of the cover downward until the cover snaps into the tab slots on the stanchion.
12. Tighten the rail/stanchion connection screws at all four locations.
13. If installed correctly, cross bars should be able to move to various positions along rails. Tighten cross bar connectors when satisfied with location of cross bars.

NOTES AND WARNINGS:

- All fasteners, knobs, and securing methods should be checked frequently and tightened as necessary.
- Going through a brush car wash is not recommended with this rack installed.
- Do not use rack if a part is cracked or broken. Contact **Perrycraft, Inc.**® by phone at 336-372-2545 or by e-mail to techsupport@perrycraft.com for assistance with purchasing a new component.
- External roof racks do not increase the GVWR of the vehicle. Total occupant and cargo load should not exceed the manufacturer's rated vehicle capacity.
- Maximum load for this rack is 110 pounds, evenly distributed on the cross bar assemblies. Torque applied to any straps, cords, etc. holding down gear or equipment also increases the "load weight" to the cross bars and roof.
- Large or flat items such as plywood, ladders, lumber, hang gliders, canoes, kayaks, etc., can trap air and create wind lift. Secure the ends of long objects directly to the front and back bumpers or tie-down positions.
- Bulky or tall loads can create tremendous horizontal wind resistance from headwinds and crosswinds. Extreme caution should be used when transporting such loads.

Perrycraft, Inc.® does not assume responsibility for style or size of rack installed, improper rack installation, exceeding rack load limit, load securing methods, vehicle roof strength, wind lift, or any other factors beyond its control.

Wind noise is a definite when carrying items on the cross bars. It is also possible with nothing on the bars. Make sure all connections are tight. Sometimes wind noise can be alleviated by moving the front cross bar toward the rear of the vehicle. If wind noise persists, a wind fairing may need to be purchased and installed.

Add-ons for your **Aventura**® Roof Rack:

Perrycraft, Inc.® offers a wide range of [Sports Equipment Carriers](#) for your active lifestyle.



See our website at <http://www.perrycraft.com> for more information on Load Bars & Sports Equipment Carriers.

Perrycraft, Inc.® Warranty Agreement

Three Year Limited Warranty

Perrycraft, Inc.® warrants this product against defective materials and workmanship to the original owner for a period of three (3) years from purchase/install date. This warranty is not valid if product is transferred to another person. **Perrycraft, Inc.**® provides no warranty and accepts no liability for normal wear and tear, incorrect installation, damage to vehicles, property, and/or equipment, nor damage arising from improper use. The sole remedy under this warranty agreement is replacement of component parts during the warranty period. You may be required to send in the component in question (at your expense) to have the part evaluated for a warranty claim.

If you have a warranty issue, and for faster service, please email a digital photo of the product/component in question, a brief description of the situation, and a copy of your purchase receipt to techsupport@perrycraft.com. Our staff will contact you as soon as possible to resolve the issue.

Registering Your Perrycraft Product

Thank you for your purchase of our product. Our goal is to manufacture quality products that meet or exceed your expectations. We want to make sure the product you have is registered with us in case there are any issues that may arise. Please register your product by sending an email to customerservice@perrycraft.com with your name, product purchased, purchase date, install date (if different than purchase date), phone number, and a scanned copy of your receipt. We promise not to send spam emails, but may contact you periodically with updated product information, questions about your usage for research purposes, or safety information.

Perrycraft, Inc.® does not assume responsibility for style or size of rack installed, improper installation, load securing methods, vehicle roof strength, wind lift, or any other factors beyond its control.