



Universal Mounting Hardware
for Installation on Fiberglass/Composite Surfaces
& Vehicle Roofs Requiring Bolt-Thru Installation



NOTE: Image may represent more than the number of fasteners required.

To be used in conjunction with the instruction sheet and parts from our standard *DynaSport*® Roof Rack (or Roof Rails) hardware kit included with the unit.



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Roof Racks & Roof Rails

Hardware Kit for Fiberglass Mounting or Bolt-through Installations

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



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.

WARNING: Do not use sheet metal screws to attach roof racks or rails on fiberglass roof panels or bolt-through applications! If used, warranty is null and void.

IMPORTANT NOTE: Please review these instructions and the detailed installation diagrams on Pages 2 & 7 in their entirety before drilling any holes to ensure a trouble-free installation and finished product!

TOOLS REQUIRED:

- Hand drill
- 3/16 drill bit (2 ½" or longer)
- 9/32 drill bit
- Phillips Screwdriver
- Pliers and/or Adjustable Wrench

CONTENTS:

- 14 - #10-24 x 2" Pan Head Stainless Machine Screws
- 14 - #10-24 Propeller Tee Nuts
- 14 - 1 1/8" Retainer Washers
- 14 - Black Snap-on Caps
- 14 - 3/16" x 3/8" x 1/32" Neoprene Washers
- 14 - #10-24 NyLok Nuts
- 14 - 1/4" Stainless Steel Flat Washers
- 24 - 3/16" x 1/2" x 1/8" Foam Rubber Washers
- 4 - 3/4" x 3/4" x 3/4" Foam Rubber Blocks.

(Shorter racks without center post will not require all fasteners included) If you should need additional fasteners, check your local hardware store or contact **Perrycraft, Inc.**® at 336-372-2545.

IMPORTANT NOTE: For roofs exceeding 1" in thickness, substitute proportionately longer stainless machine screws for the screws furnished. For truck caps not having sandwiched core/hollow core roof panels, or for mounting outside a hollow core area, or for mounting in any roof less than 1/2" thick, the propeller tee nuts will not be used.

SIZING & RAIL POSITIONING: Determine the thickness of the roof where rack/rails are to be mounted. If mounting inside the core area of a fiberglass roof, side rails should be positioned so that mounting hardware penetrates the core a minimum of 1" in from edges of core. If mounting outside core area, position so that mounting hardware penetrates a minimum of 1" outside edges of the core. Roof rack width can be decreased if necessary by cutting down crossbar lengths.

NOTE: Before drilling mounting holes in roof panel, check for appropriate fastener clearance of other roof/cap features such as ribbing, embedded wiring, interior roof attachments, etc.

RACK ASSEMBLY:

1. Insert crossbar connectors into ends of crossbars and secure with #8 x 1/2" blunt-end self-tapping screws through holes in underneath side of crossbars (Fig. 1).
2. Apply self-adhesive foam rubber washers around holes on bottom of side rails (Figs. 1 & 2).
3. Compress and insert foam rubber blocks into the rectangular hollow area in ends of side rails (Figs. 1 & 2).
4. Apply self-adhesive foam rubber washers to bottom side of all mounting holes in molded end stanchions (Figs 1 & 2) and support posts (if included).
5. Place 3/16" neoprene washer on 2" machine screws, seating washers under screw heads (Figs. 1 & 2).
6. Slide crossbar connectors into side rails positioning crossbars approximately 10" from ends of rails.

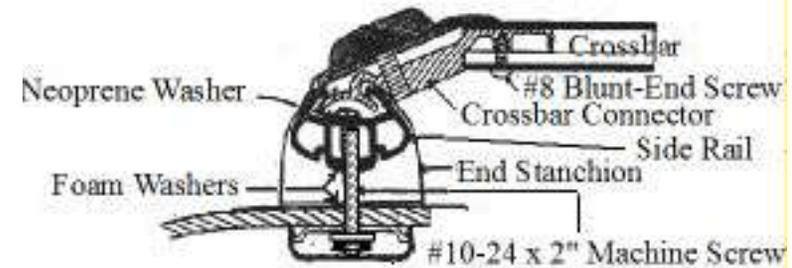


Fig. 1

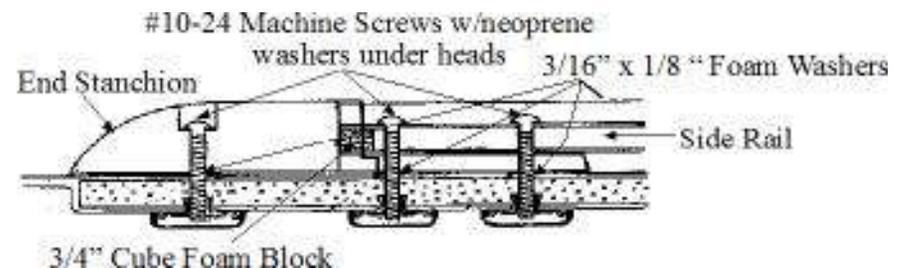


Fig. 2

INSTALLATION:

1. Place roof rack or rails in desired mounting location on cap, lid, or roof panel. If mounting on cap or lid, verify location relative to core area of cap or lid interior, ensuring mounting fasteners will penetrate core area a minimum of 1" inside or outside the outer edges of the core, depending on positioning preference.
2. Remove rack or rails and verify marked location relative to core area as detailed in Step 1.
3. Reposition rack or rails in desired location. Secure with masking tape to prevent shifting. Using side rails as a template, drill 3/16" holes completely through roof beginning with the middle hole of each end stanchion. Place a machine screw in each middle hole as drilled to prevent shifting rail position. Drill remaining holes. Remove rails and clean away any chips or debris from drilling from under rails. Reposition rails over drilled holes.

NOTE: If mounting outside core area or in surfaces less than 1/2" thick, proceed to Step 9 now.

4. From inside of cap or lid using 9/32" drill bit, ream out all drilled holes through the inner fiberglass layer only.

NOTE: If truck cap has a liner glued to inside of roof, place a long nail or screw down through the mounting holes to aid in locating drilled holes in liner.

5. Assemble propeller Tee nuts and retaining washers with flange side of washer down toward floor of truck bed and barrel of tee nut toward roof (Fig. 2). Press barrel of Tee nuts into 9/32" holes until flush with roof.
6. Install 2" machine screws down through rails using minimal downward pressure to prevent pushing Tee nuts

out of bottom holes (insure neoprene washers are positioned correctly under each screw head). **DO NOT OVER TIGHTEN!** Excessive screw torque may damage fiberglass layers and/or core material. Use of a liquid "thread lock" on machine screws is recommended. Insert screw hole covers (plugs) in end holes of rail end stanchions.

7. Snap black screw covers onto retaining washers. If excessive screw shank (over 1/4 ") extends from bottom of Tee nuts it will be necessary to remove the excess to properly install screw covers.
8. Position Crossbars in desired location and tighten adjustment knobs securely.

For installing outside core area or in surfaces less than 1/2" thick (this method requires two people in most Instances; Fig. 3):

9. Install 2" machine screws down through rails, ensuring that neoprene washers are seated under screw heads.
10. Place retainer washer with flange side of washer down toward floor of vehicle or truck bed.
11. Place 1/4" Stainless Steel Flat Washer against bottom of retaining washer.
12. Install #10-24 Lock Nuts on Machine Screws and tighten securely.
13. Remove excessive screw length. Snap black screw covers onto retaining washers, and insert screw hole covers (plugs) in end holes of rail end stanchions.
14. Position Crossbars in desired location and tighten adjustment knobs securely.

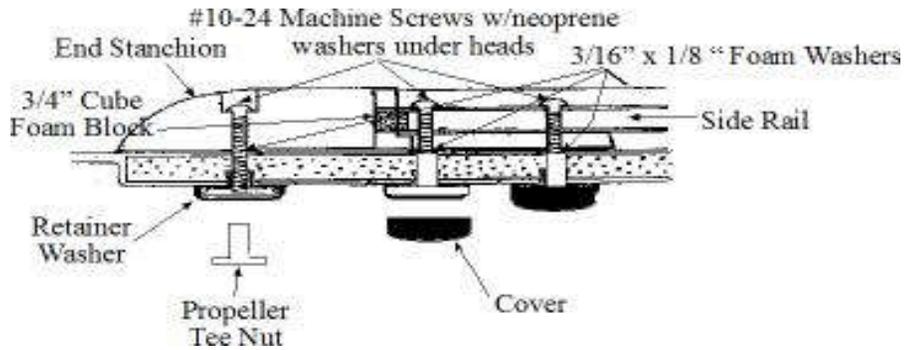


Fig. 3

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

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



Enhance the use of your *Aventura*® Roof Rails:

Perrycraft recommends the addition of our Mont Blanc *Gripper*® Load Bars, providing a 220-lb. load capacity!



Square Bar



AeroWing Bar

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, your contact information, 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.