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U.S. RACK,™ Inc. - 2850 Falcon Drive, Madera, CA 93637 - 559-661-3050

SPECIFICATIONS and SAFE LOADING REQUIREMENTS

The Model 2002-1V Canopy Van Rack is intended for use only upon commercial vans with rain drip rails that have nearly flat tops. Each Canopy Van Rack is designed to carry ladders, boats, canoes, kayaks, lumber, or other items not exceeding 250 lbs in weight or not exceeding the strength of the drip rails of the van, whichever is less. **This rack is designed to carry loads, which are spread across the width of the rack. It is not designed to carry loads where a weight of over 50 lbs. is concentrated on any space less than 12 inches on any span or where more than 100 lbs is carried on any one of the horizontal members.** U.S. Rack does NOT warranty any automotive product and does not warranty vehicles against damage caused by the weight of excessive loads being applied to them when the rack is installed on a vehicle. **U.S. Rack is not responsible for injury or property damage resulting from the rack being improperly installed or maintained.**

BE SAFE: The Canopy Van Rack is designed to carry cargo in a manner where the load is spread evenly between the front, middle, and rear cross tubes. All loads must be tied securely to the rack to prevent loads from vibrating or sliding forward, backward, laterally or being blown off or broken by the wind. **Carrying any load can be hazardous. U.S. Rack is not responsible for injury or property damage resulting from loads falling or being blown off a vehicle as a result of being improperly loaded or secured. Make sure all parts of all loads are securely tied down against unexpected winds, vibrations, or shock caused by road hazards such as potholes. Check daily and each time you install and/or load the rack to ensure that all nuts and bolts are tight.** Ensure that loads are not top-heavy. High loads must be transported with GREAT CAUTION to prevent loads from tipping during stops, turns, or high winds. Also ensure that your canopy is attached to the vehicle securely, as loads carried on the rack may increase air lift and blow the canopy off.

WARRANTY

U.S. Rack™ products are warranted for a period of one year against all structural defects in materials and workmanship provided that they are assembled, installed, and used in accordance with all manufacturer's specifications and instructions. U.S. Rack **cannot warrant the powder-coating** on its products. Normal use of any powder-coated rack and exposure to weather can result in scratching of the surface, exposing metal below; therefore, maintenance on your rack **will** be required. To prevent rust, spot paint any scratches or breaks in the surface with a high quality metal paint. **Merchandise must be returned in the original box and packaging.** See return policies and procedures at http://www.usrack.com/merchandise_return_policy.php

INSTRUCTIONS for CANOPY VAN RACK

WARNING: Do NOT attempt to install or use this rack without following all instructions.

INVENTORY

The Canopy Van Rack Model 2002-1V, consists of the following parts: A. Side-Rails (x 2); B. Cross-Tubes (x 2); C. End Tubes (x 2); D. Middle Tubes (x 2); E. Clamp Arm (x 4); and F. Clamp Bottom (x 4). **Additional hardware:** 3/8-16 x 3-1/2" button head cap screws (x 8); 3/8-16 x 2-1/2" button head cap screws (x4); black nylon washers (x8); 3/8-16 nylon lock nuts (x4); metal washers (x8) and 7/32" Allen wrench

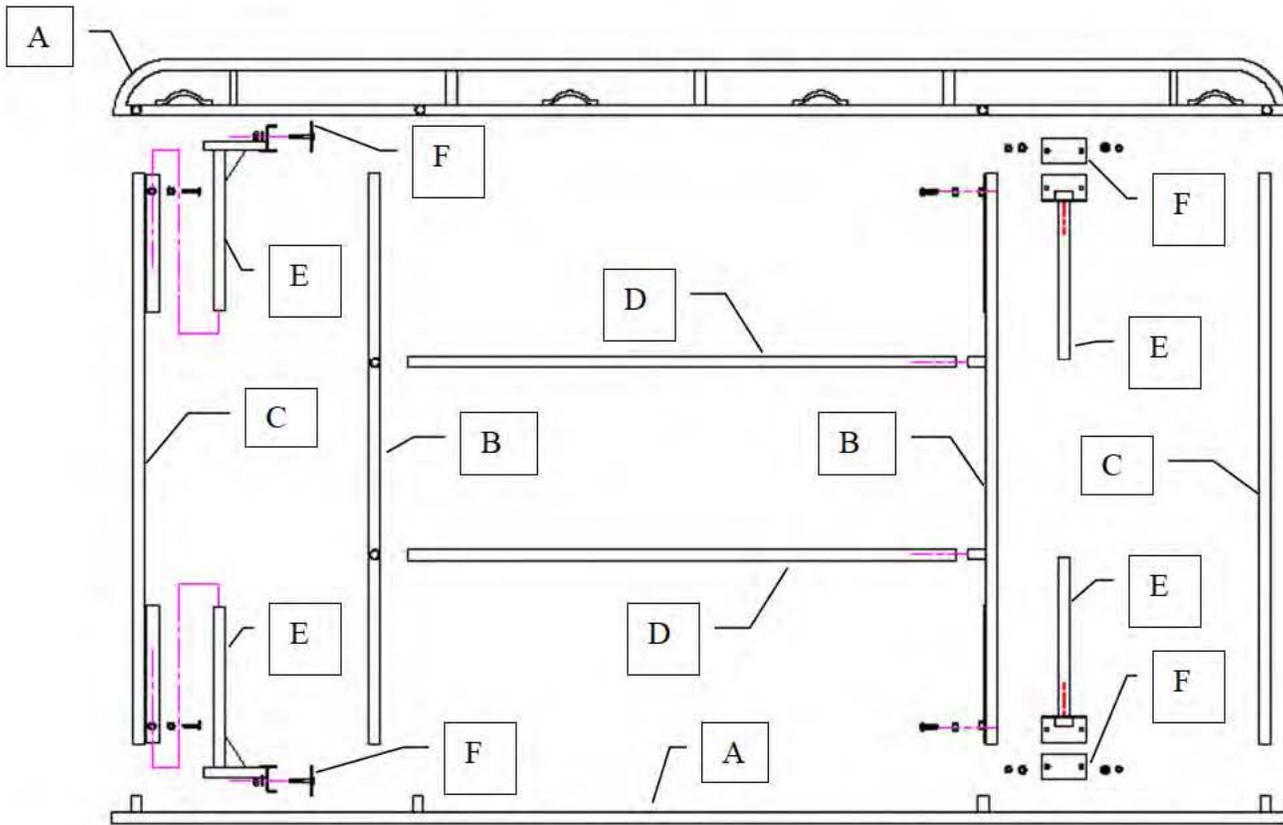


Fig. 1

ASSEMBLY

Read ALL instructions through once BEFORE you do anything!

1. **Your safety is paramount.** Before assembling the rack, inventory and inspect all parts. Visually check each part to ensure it corresponds to the inventory list and check all welds for signs of cracking or weakness. If you do not have all the correct parts or if any parts appear to be defective, STOP. Do NOT install the rack. Contact customer service at 1-888-877-2257 to replace missing or defective parts. If you have any questions about installation, call customer service.



IMPORTANT: ALL Stainless Steel Screws have been DIPPED IN A GRAY COATING to help prevent threaded parts from sticking together. However, you should have also received a small tube of grease. Coat the threads of ALL SCREWS with grease BEFORE ASSEMBLY TO MAKE ASSEMBLY EASIER AND TO PREVENT THEM FROM SEIZING-UP DURING DISASSEMBLY.

- Examine Figures 2 thru 6. Place the Middle Tubes (D) on the ground parallel to each other. Now locate the Cross-Tubes (C) and place them down at the ends of the Middle Tubes as shown in Fig. 3, so the two short tubes welded to the side of the Cross Tubes align with the ends of the Middle Tubes. Insert the short tubes into the ends of the Middle Tubes as shown in Fig. 4.
- Notice that one of the Cross Tubes and one of the End Tubes each have two Receivers consisting of a section of 1-1/4 inch square tube welded on the bottom. Place the two End Tubes on either side of the assembly as shown in Fig. 4, but ensure that the End Tube that has the Receivers is on the side opposite the Cross Tube that has the Receivers. Next align the short tubes welded to the Side Rails with the ends of all the open tubes and insert the short tubes into them. Notice that there are holes drilled into the side of each rail. Place a nylon washer on a 3.5" button head cap screw and after placing grease on the threads insert it into the hole until it contacts the Fin Nut inside. Thread the screws into the nuts and tighten firmly using the Allen wrench until the assembly appears as in Fig. 5.

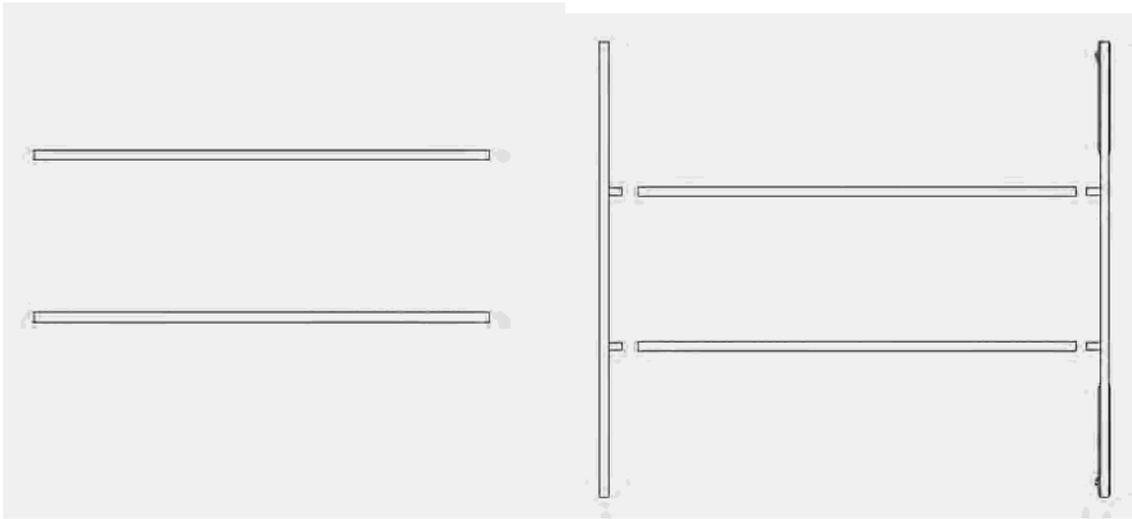


Fig. 2

Fig. 3

Fig. 4

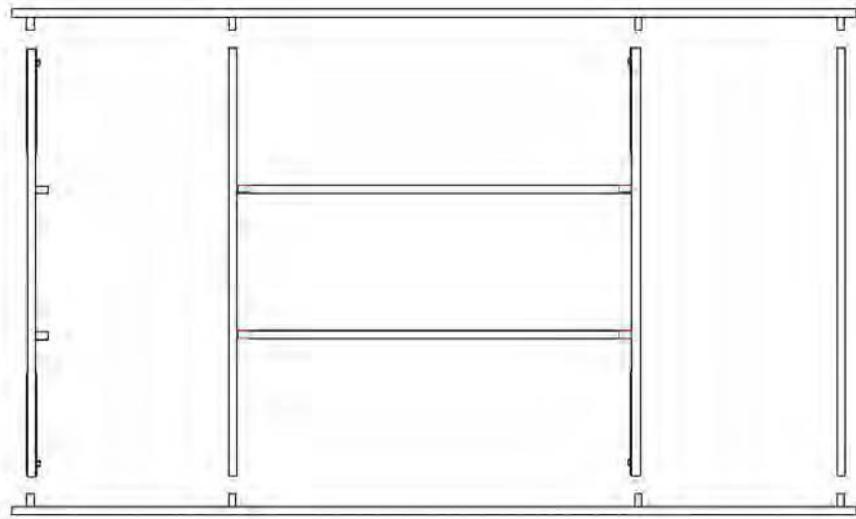
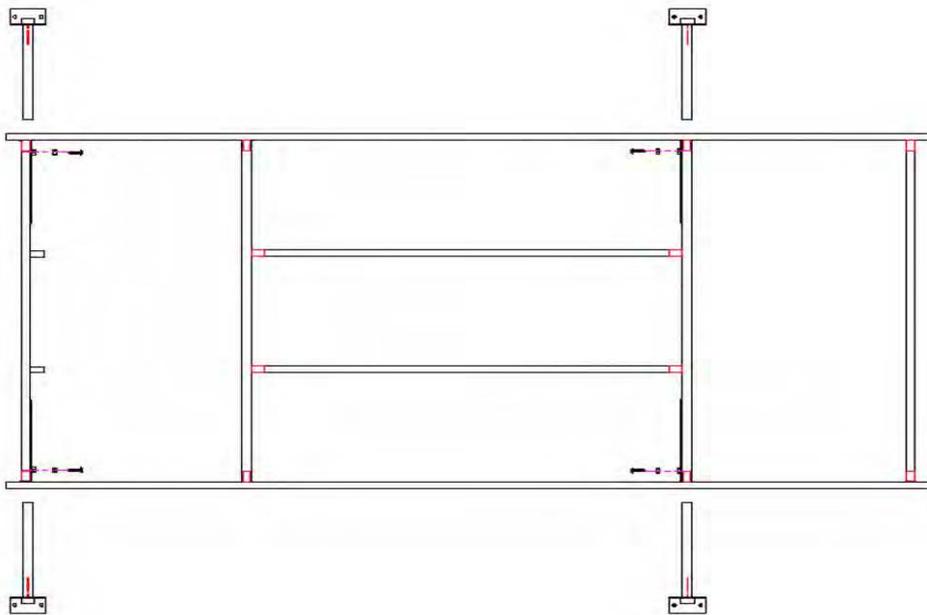
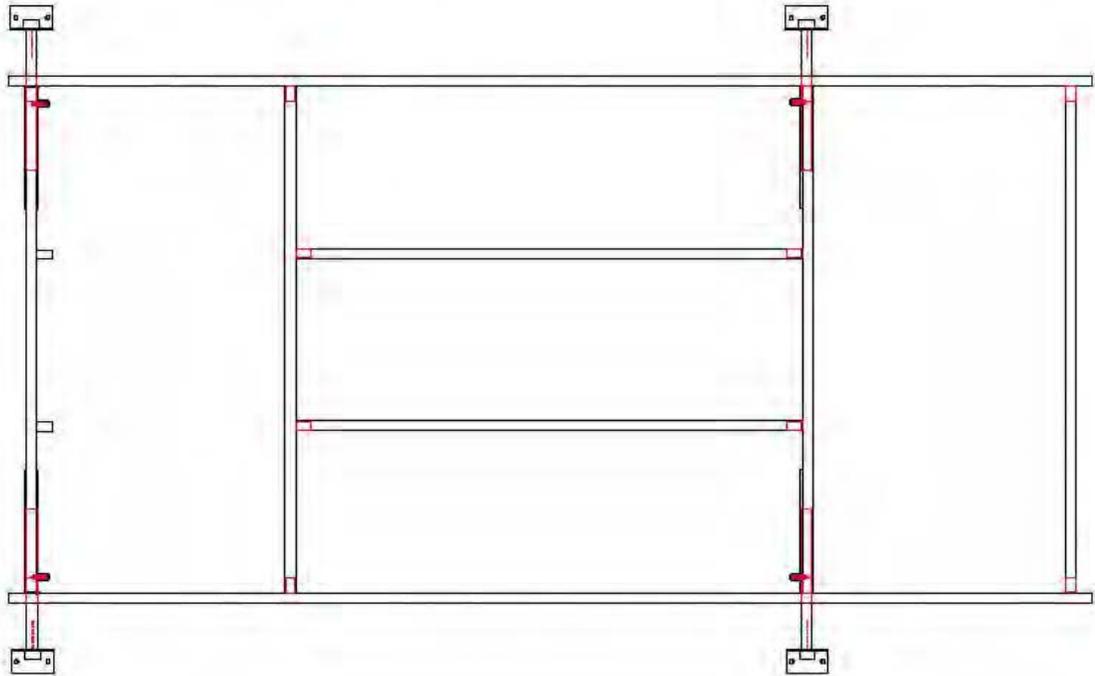


Fig. 5



- Place the four Clamp Arms on the ground as shown in Fig. 5 so that the end of the each Arm aligns with the open end of the Receiver. Slide the end of the Arm under the Side Rail and into the end of the receiver as shown in Fig. 6. Place a nylon lock nut on the 2-1/2" button head cap screws and twist them on about 2/3 of the way up the screw, then twist the screw into the nut on the side of the Receiver until the head of the nut makes contact with the side of the Clamp Arm inside the Receiver. Tighten just enough to keep the Clamp Arm from moving.

Fig. 6



INSTALLATION

- After making sure that your van is placed in a safe and level place, place a blanket or other suitable cushion on the roof. With the help of a friend pick up the rack and place it on the roof of your van and place it in the position where you want it mounted. Notice that on the end of the Clamp Arm there is a small vertical plate as shown in Fig. 7.

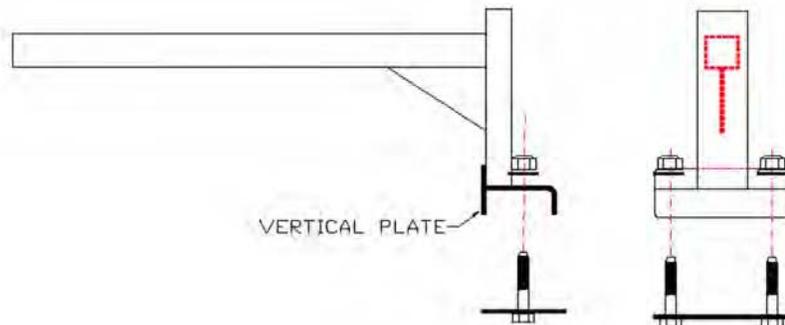


FIG. 7

Loosen the screw on the side of the receiver and push the Clamp Arm in or out of the Receiver until this plate is able to rest in the groove of the drip rail of your van as shown in Fig. 8. Adjust the position of your rack and the Clamp Arms so that the Clamp Arms on each side of the van extend out from the Receivers the same amount. After it is properly positioned use the Allen wrench to tighten the screw in the side of the Receiver until it makes an impression in the side of the Clamp Arm. Loosen the screw again and using an electric drill with a 3/8" hole at the location of the impression, through ONE SIDE of the tube. After drilling place it back into the Receiver and tighten the screw so it passes all the way through the hole you just drilled until it pins the far wall of the tube against the interior wall of the Receiver. Use the nylon lock nut on the screw to act as a jam nut and tighten it firmly so that the screw can neither go in nor out of the hole.

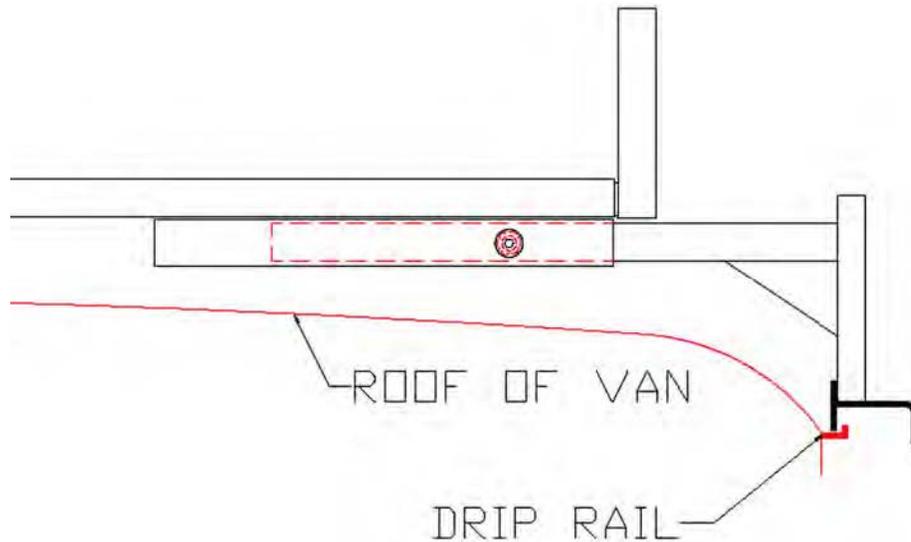


FIG. 8

After the Rack is properly positioned and the Clamp Arms are properly extended and locked, clamp the rack to the drip rails by attaching the Clamp Bottom. Pass the threaded studs up thru the holes in the bottom of the Arm Clamp and attach with washers and nylon lock nuts as shown in Fig. 9. After this is completed go back and check all fasteners to ensure that all are secure and tight. Check periodically to ensure that all fasteners remain tight.

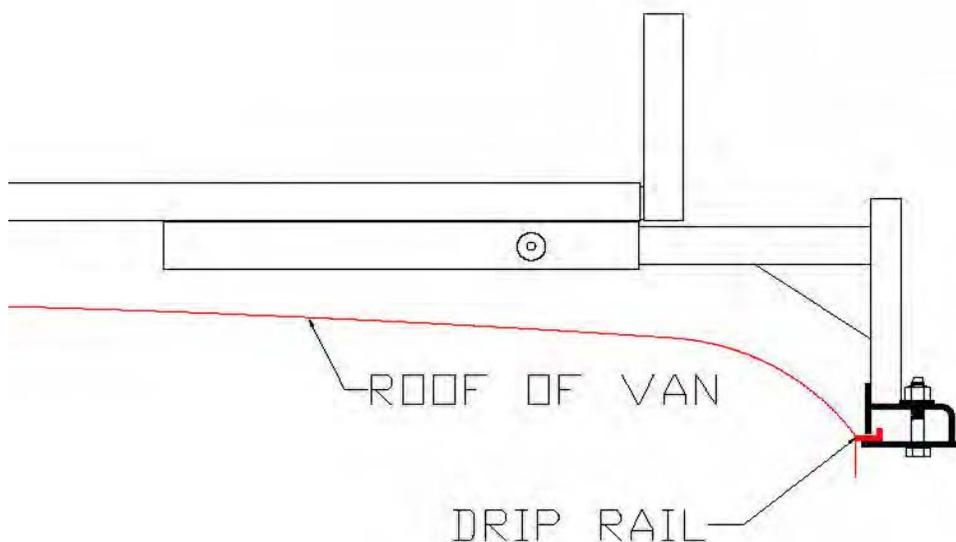


FIG. 9