

INSTALLATION and USE INSTRUCTIONS for CANOPY RACK

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

SPECIFICATIONS and SAFE LOADING REQUIREMENTS

The Model 2002-1S Canopy Rack is intended for use only upon pick-up truck toppers that have nearly flat tops and are at least 52" long as measured along the roof from front to rear. The Model 2002-1L Canopy Rack is intended for use only upon pick-up truck toppers that have nearly flat tops and are at least 72" long as measured along the roof from front to rear. Each Canopy 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 canopy, 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 canopies 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 Rack is designed to carry cargo in a manner where the load is spread evenly between the front, middle, and rear 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. The manufacturer 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.

INSTRUCTIONS for CANOPY RACK

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INVENTORY

If you have the short bed Canopy Rack Model 2002-1S, it has these parts: **A.** Side-Rails (x 2); **B.** Cross-Tubes (x 2); **C.** End Tubes (x 1); **D.** Middle Tubes (x 2); **E.** U-Shaped Clamps (x 4); and **F.** Feet (x 4).

Additional hardware: 3/8-16 x 3-1/2" button head cap screws (x 6); 3/8-16 x 1-1/2" button head cap screws (x 4); black nylon washers (x 10); 5/16-18 x 1-1/4" carriage bolts (x 8); 5/16-18 nylon lock nuts (x 8); 1-1/4" rubber fender washers (x 8); 1" metal fender washers (x 8); 3/8-16 fin nuts (inside tubes) (x 6); and 7/32" Allen wrench

If you have the long bed Canopy Rack Model 2002-1L, it has these parts: **A.** Side-Rails (x 2); **B.** Cross-Tubes (x 2); **C.** End Tubes (x 2); **D.** Middle Tubes (x 2); **E.** U-Shaped Clamps (x 4); and **F.** Feet (x 4).

Additional hardware: 3/8-16 x 3-1/2" button head cap screws (x 8); 3/8-16 x 1-1/2" button head cap screws (4); black nylon washers (x 12); 5/16-18 x 1-1/4" carriage bolts (x 8); 5/16-18 nylon lock nuts (8); 1-1/4" rubber fender washers (x 8); 1" metal fender washers (x 8); 3/8-16 fin nuts (inside tubes) (x 8); and 7/32" Allen wrench

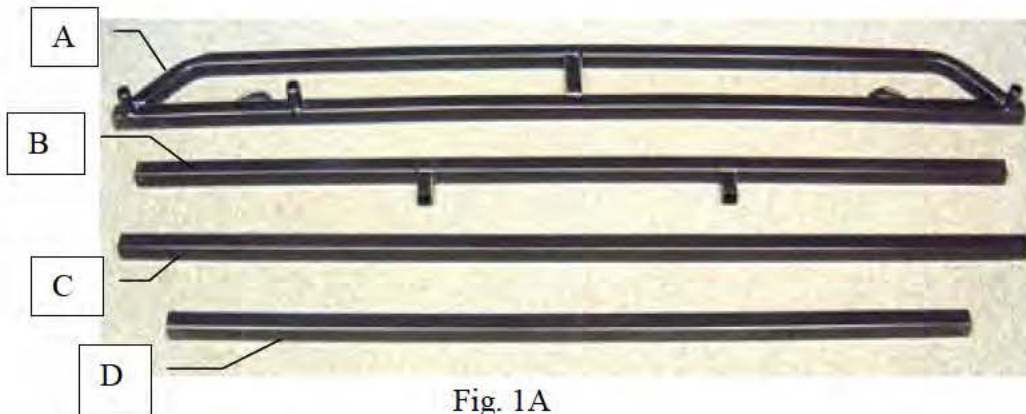


Fig. 1A

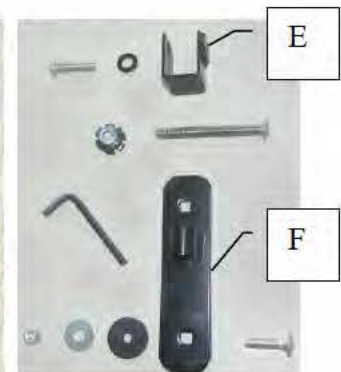


Fig. 1B

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.



2. Examine Figures 2 thru 6 below. Locate both Cross-Tubes (B). Place them on the ground parallel to each other about 5 feet apart, so that the two short tubes welded to the side of the Cross-Tubes point toward each other. Locate the Feet (E). Place two of the feet next to one of the Cross-Tubes about 6" from the end of each tube. Point the long end of the Feet toward the other Cross-Tube. Now place the Cross-Tube on top of the two Feet so the Cross-Tube rests atop the rounded portion of each Foot. Loosely attach each Foot to the Cross-Tube using a U-shaped Clamp (E) and screw. Place the open end of the Clamp over the top of the Cross-Tube. Push down until the holes in each Clamp align with the hole in the tube on each Foot. Connect each Foot to the Cross-Tubes using the Clamp. Place a nylon washer on a 3/8-16 x 1-1/2" screw and insert this first through the unthreaded hole in the Clamp, then through the round tube in the Foot, and then screw it a few turns into the threaded hole of the Clamp as shown completed in Fig. 3.

3. Locate the Middle Tubes (D), which are shortest tubes. Place them between and perpendicular to the Cross-Tubes. Insert the short tubes welded to each Cross-Tube into the ends of the Middle Tubes.

4. Locate and place the End Tube(s) (C). Model 2002-1S has only one End Tube. If you have model 2002-1S for a short bed truck, place the End Tube on the ground parallel to and about 12 inches away from the Cross-tube WITHOUT the feet. Model 2002-1L has two End Tubes. If you have model 2002-1L for a long bed truck, place one End Tube parallel to and about 16 inches away from each Cross-tube. Note that Fin-nuts are located in each end of both the End and Cross-Tubes. These nuts can be pushed farther into the tube but cannot be pulled out. Be careful not to push them further into the tube than necessary. The primary difference between the short and the long model rack is that the longer rack has an End Tube at each end and the short rack has an End Tube at only one end. See Figures 6 and 7.

5. Select the End Tube farthest away from the Cross-tube that has the feet attached. Attach the other two feet to this End Tube in the same manner as the other two feet ensuring that the long end of the feet point toward the other feet.

6. Locate both Side Rails (A) and place them on the ground with the flat side down and rounded side up on either side of the parts you've already assembled. Align the Side-Rails so the short pieces of round tube are adjacent to the open ends of the End tube(s) and Cross-tubes. Insert these short tubes into the open ends of the tubes. Place nylon washers on the 3-1/2" button head cap screws and insert through the holes in the Side Rails until each engages the threads of the Fin-nuts within the tubes; tighten moderately using the Allen wrench.



Fig. 2



Fig. 3



Fig. 4

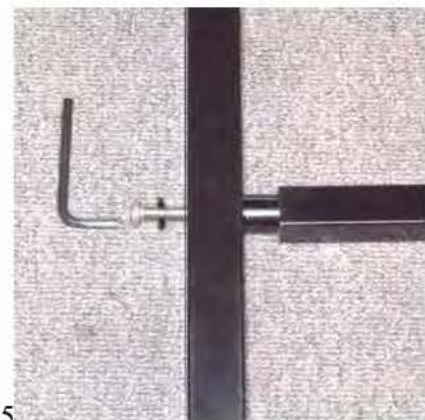
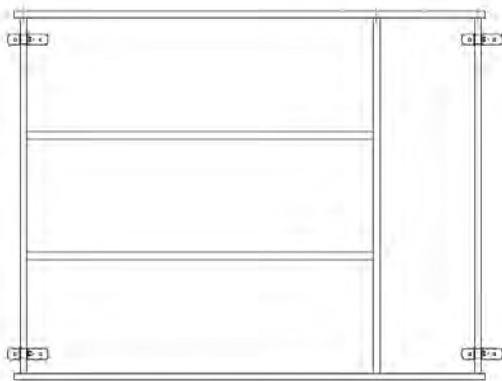


Fig. 5

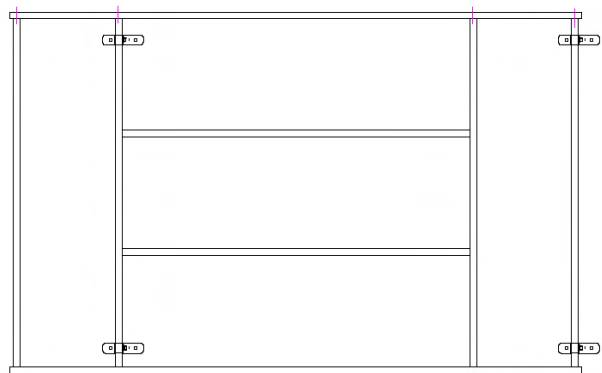
INSTALLATION

- Place the rack on top of your canopy in the desired location with an End Tube at the front. The distance between the Feet can be adjusted by loosening the U-shaped clamps and sliding them along the Cross-Tubes. As you move the feet toward the center, it tends to lift the rack higher above your canopy. Note also that the Feet can be turned so the long side faces toward or away from the front of your canopy. Place the Feet in the location to provide the greatest strength and stability for your rack. This is usually near the outside edges of your canopy. For longer canopies you may choose to remove the feet from one Cross-Tube and attach them to both End Tubes. After positioning the feet, use the Allen wrench to tighten U-shaped Clamps and Feet securely in position.
- Carefully mark the top of your canopy through the holes in each Foot being mindful of where they line up on the inside of your canopy. Be aware there will be nuts with large washers on the inside of the canopy roof. After marking the top of your canopy move your rack aside and drill 5/16" holes down through the top of the canopy. After drilling, reposition the rack so that the holes line up. For waterproof sealing, apply a good quality silicon caulk to each hole. Insert a carriage bolt down into each hole and apply a rubber washer, then a metal washer, and finally a nylon lock nut on the bottom side of the roof. Tighten securely.



TYPICAL MODEL 2002-1S CONFIGURATION

Fig. 6



TYPICAL MODEL 2002-1L CONFIGURATION

Fig. 7

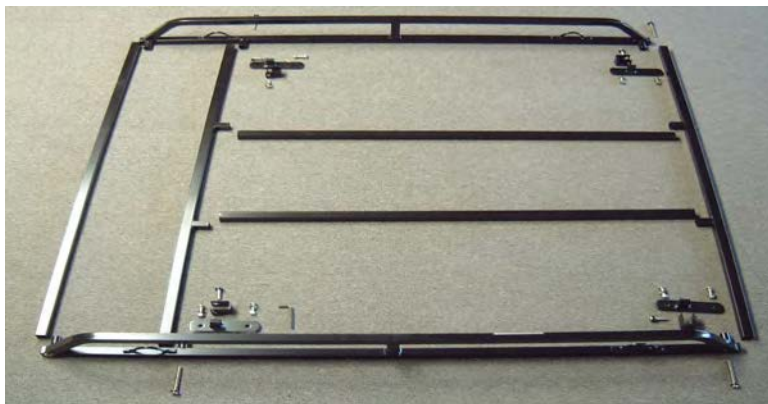


Fig. 8 (Model 2002-1S)



Fig. 9