



## INSTALLATION and USE INSTRUCTIONS for CrossTopper Truck Canopy Rack

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

### SPECIFICATIONS and SAFE LOADING REQUIREMENTS

The Model 2013-3 CrossTopper Canopy Rack is intended for use only upon pick-up truck toppers (camper shells) that have nearly flat tops. This Rack is designed to carry ladders, boats, canoes, kayaks, lumber, or other items not exceeding 250 lbs in total 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 125 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:** To be safe 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.

## INVENTORY

**The CrossTopper Rack consists of the following major parts:**

- A. Crossbar (x2);
- B. Crossbar Gusset (x4);
- C. Base (x4)
- D. Tie-down Assembly (x4, each assembly includes a carriage bolt, metal washer, and locking nylon wing nut)

**Additional hardware:** 3/8-16 x 1-1/2" button head cap screws (x4); 3/8" x 7/8" metal flat washers (x16); 5/16-18 x 1-1/4" carriage bolts (x16); 5/16-18 nylon lock nuts (x16); 1-1/4" rubber fender washers (x 8); 1-1/4" metal fender washers (x8); and 7/32" Allen wrench **(SOME HARDWARE MAY BE ATTACHED TO OTHER PARTS)**

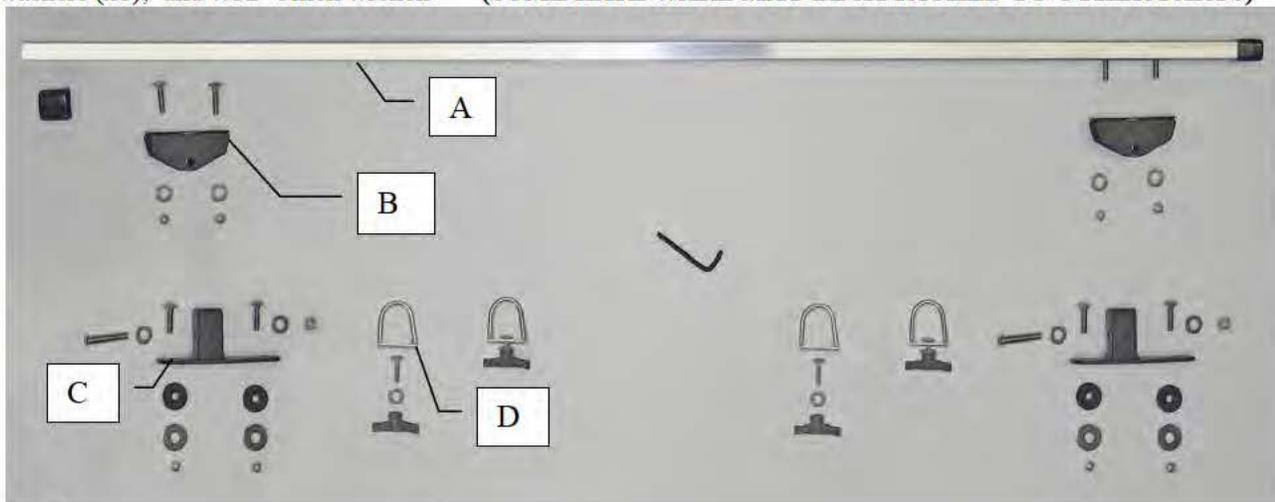


Fig. 1

## ASSEMBLY

Read ALL instructions through once BEFORE you do anything!



**1. Loosely attach the Crossbars to the Crossbar Gussets.** Remove the black caps from each end of the Crossbars (A) and lay them down with the groove facing toward you. As shown in Figs. 2, 3 and 4, insert into the ends of each Crossbar a pair of 5/16-18 x 1.25" carriage bolts and slide them along the groove until they are several inches from the end and the two bolts are about 3 inches apart from each other. Examine the top of the Crossbar Gusset (B) and notice that there are two square holes in the top. Place the Gusset down so the ends of the bolts project up through the holes. Place a metal washer and loosely thread a nylon lock nut on to the end of each bolt.



Fig. 2



Fig. 3



Fig. 4

## INSTALLATION

**2. Position Feet.** Examine the Feet (C) and notice that the bottom of each foot has a rubbery pad. Place the feet on the roof of your topper near the corners. To give you the maximum span between the crossbars, you may wish to point the long end of the front feet toward the rear and the long end of the back feet toward the front. Most camper shells are quite strong so, you don't have to position the feet right at the edge. Your choice of where you place the feet may be affected most by appearance. After positioning the feet look inside your shell to make sure that there are no obstructions to mounting at these locations. As shown in Figs. 5, 6, and 7 place the Crossbar on top of the foot, sliding the Crossbar Gusset to a location where the hole in the side of the Gusset will align with the hole in the side of the Foot. You may wish to slide one of the 3/8-16 Button head cap screws into the hole to ensure it is properly aligned.



Fig. 5



Fig. 6



Fig. 7

**3. Mark and drill your topper.** After positioning each Foot, 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 the feet aside and drill 5/16" holes down through the top of the canopy. After drilling, reposition the feet 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 large metal fender washer, and finally a nylon lock nut on the bottom side of the roof. Tighten securely.



Fig. 8



Fig. 9



Fig. 10

**3. Tighten nuts.** After securing the Feet, remove the Crossbars and firmly tighten the nuts holding the Gussets to the Crossbars. Place the Crossbar and Gusset assembly back on the Foot and connect them by inserting a 3/8 button head cap screw with washers and nylon lock nut. Firmly tighten.



Fig. 11



Fig. 12



Fig. 13

**4. Attach Tie-downs to Crossbars.** Examine the Tie-downs (D) and notice that each consist of a metal loop, a carriage bolt, a washer, and a locking nylon wing nut. Orient the Tie-downs so that the wing nut is down and insert the carriage bolt into the slot in each end of the Crossbar. As in Figs. 14 and 15, push these a few inches onto the Crossbar and tighten the knobs, then replace end caps.



Fig. 14



Fig. 15



Fig. 16

When properly installed you rack should appear as below.



Fig. 17