



U.S. RACK,™ Inc. - 2850 Falcon Drive, Madera, CA 93637 - 1-888-877-2257

## INSTRUCTIONS for HAWAIIAN SAWHORSE RACK

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

### **SPECIFICATIONS and SAFE LOADING REQUIREMENTS**

The Sawhorse Rack is intended for use only upon pick-ups with cargo beds between 54" and 66" wide as measured from the inside of the top rail of the cargo bed. It is designed to carry ladders, kayaks, lumber, or other items not exceeding the strength of the lumber used for the spanner or 300 lbs, whichever is LESS.

**This rack is designed to carry loads, which are spread across the width of the spanners and shared evenly between the front and rear spanners. It is not designed to carry loads where a force of over 100 lbs. is concentrated on any space less than 12 inches wide along either spanner, where over 125 lbs is concentrated on either end of a spanner or where a force of over 150 lbs overall is loaded on either spanner. This product is not warranted for use off-road or on unimproved or poorly maintained or bumpy roads. All loads must be tied down securely to the rack to prevent them from vibrating or sliding forward, backward, laterally or being blown off or broken by wind. Loads extending beyond the rear bumper of the vehicle must be designated with a red flag during daylight or red light during darkness in accordance with the state vehicle code. Do not install this rack on any truck where it interferes with required lighting devices. U.S. Rack does NOT warranty any automotive product and does not warranty truck bed rails 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 this rack being improperly installed or improperly loaded, nor is it responsible for injury or property damage resulting from loads or parts of loads falling or being blown from vehicle.**

**BE SAFE: Carrying any load can be hazardous. Make sure all parts of all loads are securely tied down against unexpected winds and vibrations caused by road hazards such as potholes. Check each time you install the rack, load the rack, as well as daily to ensure that all connections, including carriage bolts, nuts, and wood screws are tight and in good condition. Avoid roll over by ensuring that loads are not top-heavy. Loads should be placed so the center of mass of the load is no closer than 18 inches from the sides of rack. Transport high loads with GREAT CAUTION to prevent them from striking low overhead objects or tipping during turns, abrupt stops, or high winds.**

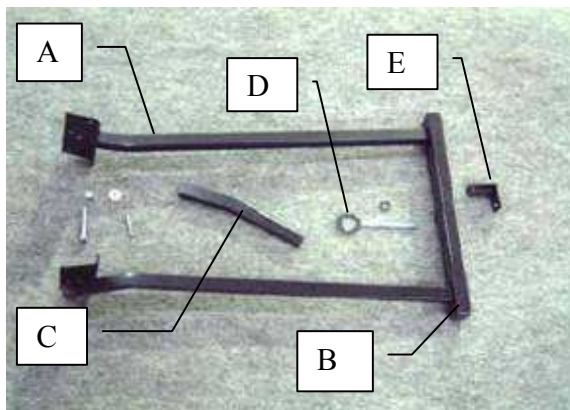


Fig. 1

The Sawhorse Rack has 5 main parts:

- A. Legs (x4 right and x4 left)
- B. Bases (x4)
- C. Top Extensions (x4)
- D. Eye-Bolts (x4)
- E. L-shaped clamp (x4)

Also included are: Plastic washers (x4)

Metal washers (x8)

5/16" Carriage bolts (x4)

5/16" Nylon locknuts (x4)

3/8" Nylon locknuts (x4)

Wood screws (x24)

**NOTE THAT SCREWS AND SMALL PARTS MAY BE FASTENED TO OTHER PARTS.**

### INVENTORY

**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.

## ASSEMBLY

*You will need a tape measure, pencil, and an electric drill with 3/8-inch bit.*  
READ THROUGH ALL INSTRUCTIONS ONCE BEFORE YOU DO ANYTHING!

It is necessary to inventory all parts first and then assemble a few of the parts before installing the rack on the truck. Refer to the photos as you assemble this rack.

1. **Attach the Legs to the Bases.** Note that there are right-side and left-side Legs. They are mirror images of each other. Pick up a right-side Leg and a left-side Leg and hold them vertically with the drilled plates facing each other and the bottom of the Legs flaring outward away from each other. You will depress the snap buttons at the bottom of each Leg and insert the Legs into the square holes until the buttons snap out inside the Base, but first you must orient the Legs in relation to the Base. Note that the plates attached to the top of each of the Legs project farther on one side than the other. Orient the Legs so that when they are inserted into the Bases, the LONG end of each plate is on the same side of the Base as the short circular tube. If you insert the Legs incorrectly, remove the plastic end-caps to access the snap buttons and try again. When completed the assembly should appear as in Fig. 1, above.

2. **Select lumber.** Select either a 2 x 4 or 2 x 6 piece of lumber for the spanner of your rack. Using a 2 x 4 will make the top of the rack about 26-1/2" above the top of your bedrail. Using a 2 x 6 will make it two inches taller. Measure the width of your truck bed, where you intend to place the rack. Measure from the INSIDE edge of the bedrail on one side to the INSIDE edge on the opposite side. Caution: Many pickup beds are narrower at the rear of the bed than at the front, so separate measurements must be taken near the front of the bed and near the rear. After measuring the width of the bed, select a piece of lumber that is at least 4 inches longer than the width of your bed.



Fig. 2



Fig. 3

## INSTALLATION

3. **Attach legs to the lumber.** Slip one end of a length of lumber between the opposing faces of the leg plates. Note that there is a lip on the bottom of each plate. Place the wide side of the lumber against the plates with the bottom edge of the lumber resting on the lip at the bottom of each plate. Slide the lumber until one end of the lumber extends 1-1/2" beyond the end of the plates and the small circular tube on the Base is facing toward the long side of the lumber. Using a pencil, mark the wood at the center of the square hole in the plate, then remove the wood. Using an electric drill with a 3/8" bit, drill a hole at right angles through the wood at the location marked. After drilling the hole measure from the center of the hole along the length of the lumber and mark a vertical line across the width of the lumber. The distance from the hole to this line should be equal to the distance between the bedrails of your truck MINUS 6 inches. After marking the vertical line on the lumber, drill a second 3/8" hole through the wood on this line the same distance up from the bottom of the lumber as the other hole. Re-insert the wood between the plates, align the square holes in the plates with the holes in the wood and loosely attach all together. Insert one carriage bolt into each hole and attach a metal washer and nylon locknut on the other side.

4. **Attach first side of Rack to lumber tightly.** Pick up the rack and place it atop the bedrails of the truck at the desired location. Align the round tubes in each base with the inside lip of each bedrail. Place a metal washer then a black nylon washer on each eye-bolt. Insert eye-bolts down through the round hole in each Base. Hold each L-shaped clamp so that the portion of the clamp with the hole is horizontal and the portion of the clamp with the rubber top points upward. Align the hole in the clamp with the bottom of the eye-bolt and place the rubber top under the bedrail. Thread the Eye-bolt into the hole in the clamp and tighten until the rubber bumper makes firm contact with the under-side of the bedrail. When satisfied with the mounting of the Bases ensure that each spanner is even and centered over the bed. Tighten the nuts on each carriage bolt then insert and tighten **just 3** wood screws through each leg plate to ensure it is rigidly attached to wood.

*If you have an over-the-rail bedliner you may have to cut a hole in your bedliner to allow the clamp to pass under the bedrail. If you have purchased a bedliner kit, mark your bedliner adjacent to where the eye-bolt hangs down. Use the hole-saw to drill a hole with its center 2-1/2" below the top of your bedliner. When you*

remove your rack, use the round plastic caps to plug the holes. **Warning:** Be careful that you cut very gently. Drilling through too hard will cause you to scratch your bedrail. Pull back your bedliner to inspect before cutting to ensure there are no obstructions under the bedrail.

5. **Complete mounting.** Insert the Top Extensions down into the open end at the top of one of the Legs at each corner of the rack until firmly seated. Insert the 1" square plastic caps into the tops of the other legs. After mounting your rack, if you find that the lumber on one side projects out farther than on the other side, cut off the excess lumber to make them even.

6. **Use rack.** Before driving your truck ensure the Top Extensions are tapped firmly in place. These extensions are held in place only by friction and can work loose especially on bumpy roads. They are intended only as guides for load placement and CANNOT be relied upon to prevent loads from sliding off the side of your rack. You must tie all cargo down securely with ropes or ratchet straps to the eye-bolts or other secure tie-down locations on your truck. Four 3/8" nylon lock nuts have been included to apply to the bottom of the eye-bolts for extra security. These must be applied to prevent the eye-bolts from loosening on bumpy roads. To use your rack as a sawhorse, unscrew and remove the eye-bolts, and remove the rack from your truck. Remove the Top Extensions if desired. **Mahalo and Aloha.**



Fig. 4



Fig. 5



Fig. 6



Fig. 7

### **WARRANTY for the HAWAIIAN SAWHORSE RACK**

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. **Merchandize must be returned in the original box and packaging.** See return policies and procedures at <http://www.usrack.com/service.shtml>