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

Paddler's Truck Rack

Installation and Use Instructions

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



We also have an installation video on our website at

http://usrack.com/instructions_video_paddlers_rack.php

SPECIFICATIONS and SAFE LOADING REQUIREMENTS

These instructions are intended for use upon pickup trucks that have conventional fleetside bedrails (MODEL 2010-1B and 2010-1FS) or that have bedrail track systems such as the Nissan Utili-track, Toyota Deckrail or Dodge, Ford or Chevy cargo management track system (MODEL 2010-1TRA) or any conventional metal fleet side or step side bedrails. This rack is designed to carry canoes and kayaks but can also carry ladders, lumber, or other cargo not exceeding 300 lbs.

This rack is designed to carry loads, which are spread across the width of the crossbar and shared evenly between the front and rear crossbars. 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 crossbar or where a force of over 150 lbs overall is loaded on either crossbar. 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. The manufacturer 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. **The manufacturer is not responsible for injury or property damage resulting from the 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 off a vehicle.** 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.

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 are tight. Avoid roll over. As with all racks, ensure that loads are not top-heavy. Loads should be placed so that the center of mass of the load is no closer that 24" from the sides of the rack. High loads must be transported with GREAT CAUTION to prevent loads from striking low overhead objects and from tipping during turns, abrupt stops, or high winds.

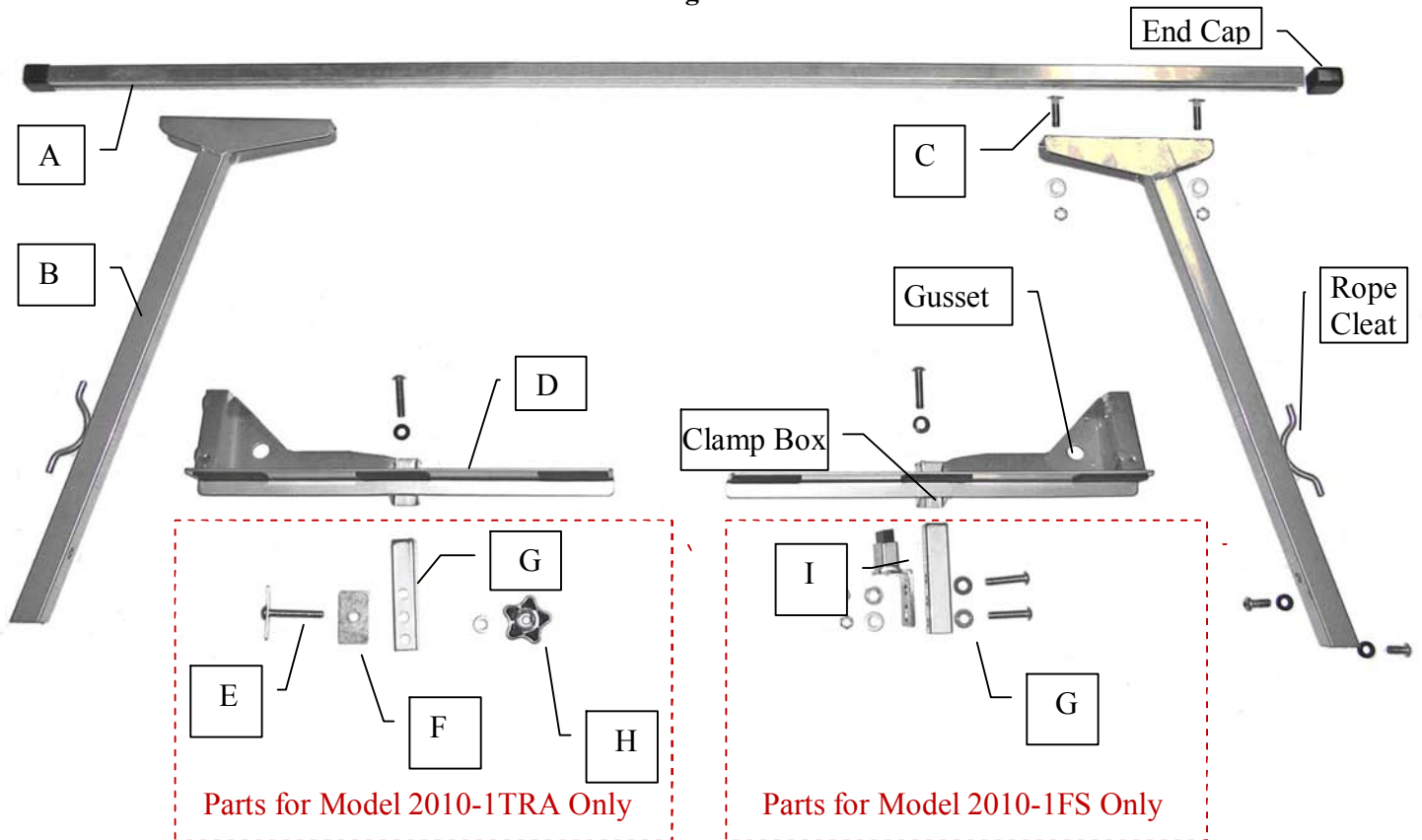
WARRANTY

This product is 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. The powder-coating on this rack cannot be guaranteed. Maintenance is required. During ordinary use, powder coating can be scratched or chipped off. If this occurs, it is important to spot paint surfaces with a matching color to ensure that the rack will not begin to corrode.

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. We will be happy to help.

Fig. 1



Model 2010-1TRA attaches to track systems in the bedrails and consists of these parts:

- | | |
|------------------------------------|---|
| A. MALONE Aluminum Crossbar (x2) | B. Leg (x4) |
| C. 3/8-16 x 1" Flat head bolt (x8) | D. Base (x2 left and x2 right) |
| E. Track Insert (x4) | F. Widening Plate (x4) (not for Toyota) |
| G. Clamp Tube (x4) | H. Locknut Star Knob (x4) |
| I. NOT INCLUDED WITH THIS RACK | |

ADDITIONAL HARDWARE: 3/8-16 X 1.75" button head cap screws (x4); 3/8-16 X 1" button head cap screws (x8); nylon washers (x12); metal washers (x4); nylon lock nuts (x16); Insert Safety Blocks (x2)

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

Model 2010-1FS clamps onto the bedrails and consists of these parts:

- | | |
|------------------------------------|--------------------------------|
| B. MALONE Aluminum Crossbar (x2) | B. Leg (x4) |
| C. 3/8-16 x 1" Flat head bolt (x8) | D. Base (x2 left and x2 right) |
| E. NOT INCLUDED WITH THIS RACK | F. NOT INCLUDED WITH THIS RACK |
| G. Clamp Tube (x4) | H. NOT INCLUDED WITH THIS RACK |
| I. Cushion Casing (x4) | |

ADDITIONAL HARDWARE: 3/8-16 X 1.75" button head cap screws (x12); 3/8-16 X 1" button head cap screws (x8); nylon lock nuts (x16); nylon washer (x12); metal washers (x16)

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

Model 2010-1B bolts onto the bedrails and consists of these parts:

- | | |
|------------------------------------|--------------------------------|
| A. MALONE Aluminum Crossbar (x2) | B. Leg (x4) |
| C. 3/8-16 x 1" Flat head bolt (x8) | D. Base (x2 left and x2 right) |
| E. NOT INCLUDED WITH THIS RACK | F. NOT INCLUDED WITH THIS RACK |
| G. NOT INCLUDED | H. NOT INCLUDED WITH THIS RACK |
| I. NOT INCLUDED | |

ADDITIONAL HARDWARE: 3/8-16 X 1.5" button head cap screw (x8) (used to bolt Bases to bedrails); 3/8-16 X 1" button head cap screw (x8); nylon washers (x8); metal washers (x20); nylon lock nuts (x12)

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

ASSEMBLY

Read ALL instructions through once BEFORE you do anything!



IMPORTANT: APPLY AN ANTI-SEIZE LUBRICANT SUCH AS FINISH LINE Ti-PREP TO ALL SCREWS BEFORE ASSEMBLY TO PREVENT THEM FROM SEIZING-UP DURING ASSEMBLY OR DISASSEMBLY. (SMALL TUBE INCLUDED)

1. **Attach Legs to Bases.** After you have inventoried and inspected all parts, examine the Legs (B). Notice that there are two holes near the bottom. Next examine the Bases (D) and notice that near one end there is a tubular projection containing two threaded holes. Welded to the side of each Base there is also a Clamp Box with a hole in the top. Attach the Leg to the Base by sliding the bottom of the Leg over the top of the tubular projection so that the holes at the bottom of the Leg align with the holes in the projection. Place nylon washers on two 1-inch long button-head cap screws. Thread one screw into the hole at the very bottom of the Leg, and pass the other through the hole in the top of the gusset, and thread it into the other hole in the Leg. Tighten both firmly with the Allen wrench. After attaching all Legs to Bases notice that the assemblies form two mirrored pairs.



Fig. 2



Fig 3.



Fig. 4

2. **Attach Cushion Casing to Clamp Tube (Only for trucks with standard bedrails).** If you have a truck with conventional fleet side bedrails and do not have an accessory track system, you will need to attach the Clamp Tube (G) to the Cushion Casing (I). Examine the Clamp Tubes and notice that there are three holes in the side and one at the top. Examine the Cushion Casing and notice that the casing contains a rubber nub designed to contact the underside of the truck bedrail. Align the two holes in the Casing with the two bottom holes in the side of the Clamp Tube. Place a metal washer

on two 1.75-inch long screws and pass them through each hole, first through the Casing and then through the Clamp Tube. Place a metal washer on the end and then screw a nylon lock nut firmly on the end of each screw.



Fig. 5



Fig. 6

3. **Loosely attach the Crossbars to Legs.** Lay the crossbars (A) on the ground with the groove facing toward you. Remove the black caps from each end. Examine the top of the Legs and notice that there are two holes in the top. Already in each hole you should find a 3/8-16 x 1.25" Flat head bolt with a metal washer and a nylon locking nut threaded on the end. Take each Leg/Base assembly and place it on the ground and feed the heads of the bolts into the ends of the Crossbars as shown below. Ensure that the Bases point upward.



Fig. 7

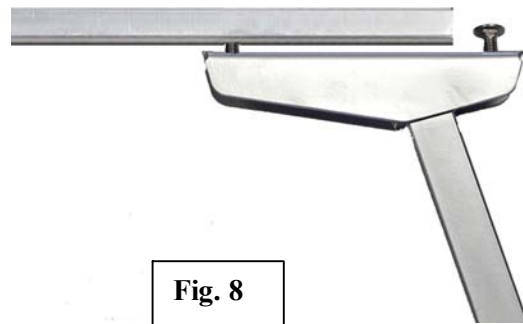


Fig. 8

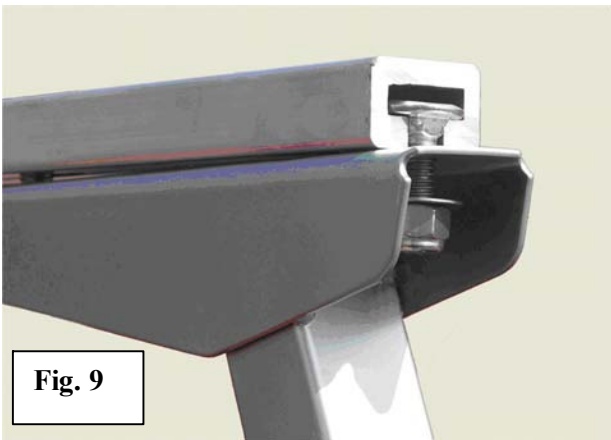


Fig. 9

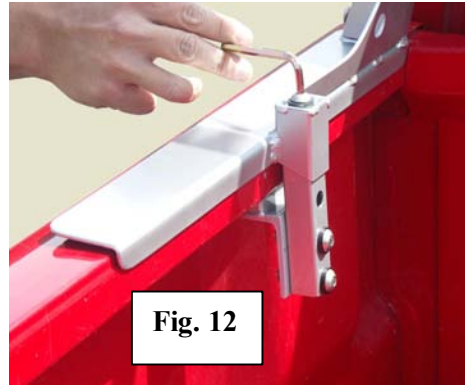
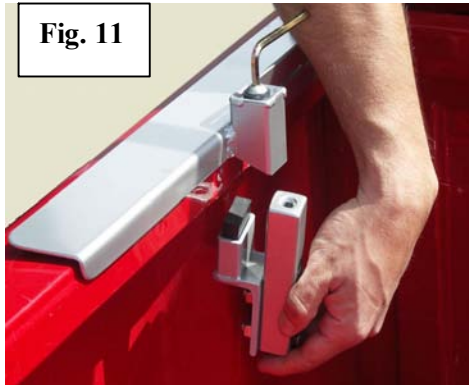


Fig. 10

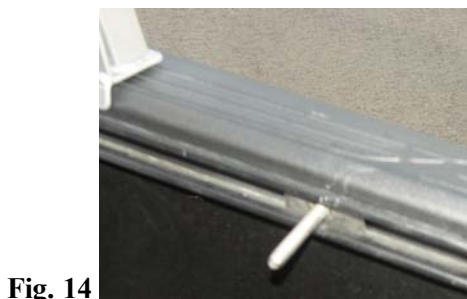
INSTALLATION

4. **Place the Rack onto the Bedrails.** Park your pickup truck in a safe and level place and lower the tailgate. Pick up one assembly (a mated Crossbar and two legs) and step carefully up into the bed and approach the front of the bed. Since you have not yet firmly tightened the carriage bolts attaching the Legs to the Crossbars, slide the Legs along the Crossbar either together or apart until the bases of the Legs are about as far apart as the bedrails of the truck. Orient the bases so that the long ends point toward the tailgate and place the bases on the bedrails so each Leg is at the front corners of the truck bed.

5. **If you have a Rack Model 2010-1FS and Fleet Side bedrails, Clamp the Rack to the Bedrails.** *For this installation you will employ parts G and I, but you will not need E, F, or H.* Notice that the bottom of the clamp box on the Base of the rack is open and the top has a hole. In order to clamp the Base to the bedrail of the truck, pick up the Clamp Tube/Cushion Casing assembly and insert the top of the Clamp Tube up into the bottom of the clamp box while simultaneously inserting the Cushion Casing with the rubber top up behind the lip of the bedrail. Place a nylon washer on a 1.75-inch long screw and pass it down through the hole in the top of the clamp box until it engages the threads in the Clamp Tube. Use the Allen wrench to turn the screw into the threads until the rubber top makes contact with the bottom of the bedrail. Tighten the screw firmly enough so that the rack cannot move on the bedrail but not so firmly that the threads or Allen wrench are stripped. See Figs. 11, 12, and 13, below.



6. **If you have Rack Model 2010-1TRA and a Truck with a Track System, Attach the Rack to the Track.** *For this installation you will employ parts E, F, G and H, but you will not need I.* Figures 14 thru 19, below, show the Leg and Base of the rack resting on the bedrail of a Toyota Truck with Deckrail system. Although Nissan, GM, Ford, and Dodge have different track systems, the method of installation is the same as for the Toyota Deckrail. Place the Leg/Base assembly on the bedrail. From the end of the rail slide Track Inserts (E) into the track until it is located where you want the Base to be. If you have a Nissan, GM, or Ford Track system, before sliding the Insert into the track, place the Widening Plate (F) over the threaded spindle to make the Insert wider so it will fit your track snugly. **If your insert can be pulled out through the opening in the rail, the insert does not fit. Do NOT attempt to install the rack if the insert does not properly stay in the track. Call customer service at 1-888-877-2257 for assistance.** Examine the Clamp Box on each Base and notice that the bottom of each Box is open. Pick up a Clamp Tube and place it on the Track insert with the end of the Clamp Tube with the threaded hole pointing up. Place the Clamp Box over the top of the Clamp Tube. Place a metal washer on the end of the Track Insert and then thread the locking nut Star Knob onto the end of the Track Insert and tighten firmly. Place a nylon washer on the end of a 1.75-inch long screw and pass it down through the hole in the top of the Clamp Box until it engages the threads in the Clamp Tube. Using the Allen wrench, tighten the screw in the top of the Clamp Box until the Base is held securely down to the bedrail. Do NOT tighten so much, however, that it damages or distorts the bedrail track or pulls it up or away from the side of the bed. When completed, the mounted rack should appear as in FIG. 19.



7. **Adjust and Lock the Crossbar.** After attaching the rack to the bedrails, check first to see if the Crossbar is centered between the Legs. Next ensure that the Angles formed by the Legs with the Crossbar are the same on both sides. After these are properly aligned, tighten the lock nuts holding the Legs to Crossbar firmly as shown in Fig. 20 and 21 until there is no movement when moderate pressure is applied to the sides of the Crossbar. Replace end caps on ends of the Crossbar. *If after making this adjustment you may find that there is a slight bowing in the crossbar, loosen and adjust the screws attaching the Bases to the Nut Tubes and the Nut Tubes. Adjust and retighten the fasteners until the Crossbar is straight.*

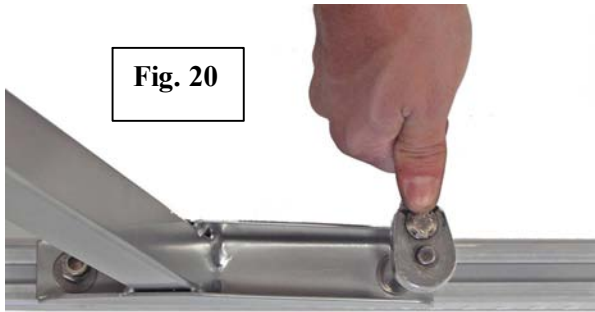


Fig. 20

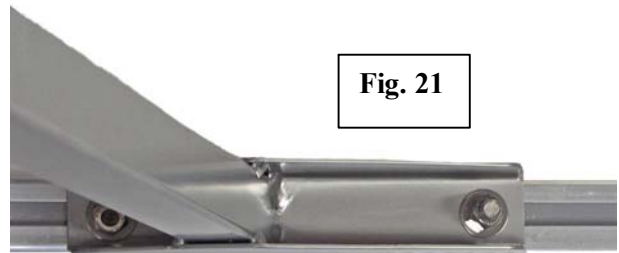


Fig. 21

8. **Install the Back Section of the Rack.** Install the back section of the rack in the same manner as the front. When installed, as shown in FIGs. 22 and 23, both sections of the rack should sit firmly on the bedrails without moving. Threaded parts should be tightened well, but not so tightly that the threads are stripped or parts damaged. Loads can be roped or strapped to the cleats on the side of each Leg or hooked to the eyes in the gussets at the base of each Leg. Ensure that when loads are tied, the strap or rope tension is not so great as to bend or loosen parts. Road conditions, temperature and weather can affect vibration and tension on parts. **Bind the load from a location directly above the Crossbar to the Legs of that Crossbar only. Do NOT tie down the load in a way that pulls the front and back sections of the rack toward each other.** The load, road, and driving conditions can affect the tension on all parts. Check tension on all threaded parts of the rack and on straps periodically to ensure they are tight.



Fig. 22



Fig. 23

9. **Insert Safety Blocks.** FIGs. 24 thru 24 show the plastic Safety Block being inserted into the back end of each track. The illustrations show the Toyota deckrail and a white block (for better visibility). Remove the screw and washer from the block and insert a block into each track. The purpose of the block is to ensure the Track Inserts cannot slide out the rear end of the track. Notice that there is an oblong hole in the bottom of the Toyota deckrail. Insert a screw with washer through the oblong hole and thread it up into the hole in the bottom of the block; tighten firmly. Nissan and American Make trucks have no hole in the bottom of the track; so it is necessary to first drill a 1/4-inch hole centered in the bottom of the track 1 inch from the back end of the track to insert the screw.



Fig. 24



Fig. 25



Fig. 26