

# **“Kayak Wing”™ with Wedge - Instructions for Vehicle Mounting**

## **What’s in the box? Pre-assembled for your convenience:**

(See Picture #1)

- (2) Black “Wings” with felt pads
- (2) Surf to Summit “Flying Burrito” with 1 ½” wide x 8’ long hold-down straps and 19” strap keeper
- (2) Wedges

### **Hardware kit –**

- (4) 4” wide U-bolts
- (2) 1/4-20 x 3 5/8” leg length; (2) 4 ½” leg length
- (4) U-bolt keeper plates
- (8) Star hand knobs (1/4-20)
- (8) O-rings

***Important: Always be sure your rack is attached properly and securely to your vehicle. The wider apart the bars on your roof rack are, the better your Kayak will ride. If adjustable, separate the bars as far as possible before installing the “Wings.”***

***Fit Questions: The hardware included with this kit is designed to fit all Thule, Yakima, and most OEM racks we have seen. Please call, if you have problems with the fit.***

## **To Install the “Kayak Wing”™ with Wedge on your existing roof rack system:**

- Step 1** – With the “V” pointing toward the back of the car, determine the side of the “Wing” that you want the high side of the wedge on. **(See Picture #2)** The “Wings” are drilled for both right hand and left hand tilt. Determine the correct holes. Assemble the longer U-bolt on the high side of the wedge and the shorter U-bolt on the lower side. **(See Picture #3)** The O-rings go on the U-bolt legs to keep them from sliding back out.
- Step 2** – Place the keeper and one hand knob on each U-bolt and rotate the keeper plates out of the way. Put the “Wing” on the cross bar on top of your vehicle with the keel guide “V” pointing to the rear of the vehicle. Rotate the keeper plates under the cross bar and over the ends of the U-bolts, and install the hand knobs on the remaining threaded ends. **(See Picture #4).**
- Step 3** – Tighten all four hand knobs evenly, until the assembly is tight enough so the “Wing” does not rock easily on the cross bar. Be sure the leg on each U-bolt comes through the center of the knob – almost flush or slightly past the surface of the knob **(See Picture #4)**. **(Important:** The “Wings” with the wedge make it easier to install two sets of “Wings” side by side. You will need to determine the spacing by the size of your kayaks. 28” between the centers of the “Wings” should be sufficient for almost all kayaks. **(See Picture #8)**).
- Step 4** – The “Wings” come with felt pads already in place. These pads protect your kayak from scratches and allow for easy sliding. However, four self-adhesive foam pads are provided as well. Installation of these pads is *optional*, and will provide more padding, if desired, but may hinder easy sliding. Remove the backing and apply the pads as shown in **Picture #5**.

### **To lock the straps into a convenient Ready Position:**

Straps come pre-assembled, but you may need to reposition them so that the tensioning buckle is on the outside of your vehicle. Start on that side and thread the loose end of the strap up through the first slot. Next, place the strap through the loops on the 19” strap keeper with the red side up. This ensures that the strap does not fall out of place when not tightened. Then thread the strap through the opposite slot **(See Picture #6 & 6A)**. **Important:** When driving without your kayak, tighten the buckle and fold the straps into the “Flying Burrito” to keep them from flapping.

Keeping the straps on your “Wing” allows for fast and easy loading of your kayak (See Picture #7).

***Road Noise: With a kayak in place, there is very little road (wind) noise. However, without a kayak and the straps on, there can be considerable vibration noise. If this bothers you, either tie the straps tighter or remove the straps.***

### **To put your Kayak on the “Kayak Wing”™:**

- Step 1** – Slide or place your kayak, keel down, on the “Wings” with the cockpit centered between the two wings (See Picture #9).
- Step 2** – To keep the rain water out, use either a full cover, like a Danuu (See Picture #10) or a tarp. This will also minimize sun damage to your kayak due to UV rays. It is easier to cover the kayak before putting it on the “Wings.” The hold down straps will secure the cover as well.
- Step 3** – After your kayak is in place, tighten the straps on both “Wings” around your kayak, behind and in front of the cockpit coaming.
- Step 4** – Before securing the loose end of the strap in the “Flying Burrito”, be sure that the straps are tight around the kayak. **Important: To assure that the straps are properly tightened, try to lift your kayak off the “Wing” by lifting up from the bow and then the stern.** Doing this will make sure there is no slack in the strap under the kayak. Retighten the straps, if necessary. Then, using the Velcro flaps, secure the flaps of the Burrito around the folded strap. Use the same procedure to secure the strap when traveling without a kayak.

***Important: As an additional Safety Precaution, Always use a bow and stern line from the kayak to the vehicle. In an accident, fully loaded, your roof rack will become separated from your vehicle.***

- Please enjoy your “Kayak Wing.”™ Call us with any concerns at 1-847-582-1070.
- When used properly, the “Kayak Wing”™ will minimize or eliminate the dents in your hull that may result when your kayak rests on too small of supports. This is particularly true for soft polyethylene kayaks.

### **For Assistance, Contact:**

**Great Lakes Kayak**  
950 Albrecht Drive  
Lake Bluff, IL 60044  
(847) 582-1070  
Fax (847) 582-1071

e-mail: wings@greatlakeskayak.com

### **Warranty:**

The “Wing” is unconditionally guaranteed against breakage or defects for **five** years, if you register your proof of purchase. It will be replaced or the purchase price refunded, at our option. The straps and pads are wear items and are only guaranteed for **two** years.  
***Replacement straps, pads, and extra hardware are available at Great Lakes Kayak. Register your warranty on our website.***



**Picture #1**

In the Box:  
**Pre-assembled**

- (2) "Wings"
- (2) Sets of U-bolts (2) 3 5/8" leg & (2) 4 1/2" leg plus hardware
- (2) 8' straps (Burrito)
- (2) Wedges
- (4) Foam pads for optional installation

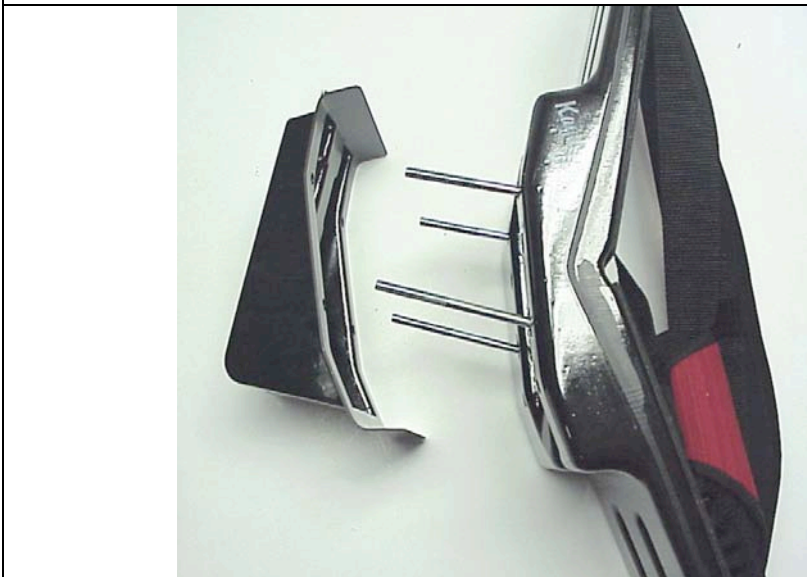
One Set of two "Wings"  
to carry one Kayak



**Picture #2**

*Wing Wedges*

The wedges can be assembled with left or right tilt. With the "V" towards the back of the car, determine on what side of the wing that you want the high side of the wedge.



**Picture #3**

*Assemble the wedges*

The Wing is drilled for left or right mounting. Slide the long U-bolt through the holes for the high side of the wedge and the shorter U-bolt through the holes for the low side. Slide the wedge over the U-bolts.



Hand knobs

Keepers

**Picture #4**

***Hand Knobs and Keepers***

Assemble the keeper and one knob on each U-bolt, before placing the “Wing” over the cross bar. After it’s on the bar, rotate the keepers over the second legs of the U-bolts and install the other two hand knobs. Tighten the knobs evenly, so the wing won’t easily rotate or slide on the cross bar.



**Picture #5**

***Optional Foam Pad Installation***

With the U-bolts in place, peel off the backing and install the pads. They should be approximately centered on and just covering the U-bolt slot. Note that they are behind the keel guide “V”.

**NOTE** – Your Kayak will slide on the “wing” more easily if the pads are not used.



The padded side of the “Flying Burrito” faces up

**Picture #6**

***Hold Down Strap Installation***

If you would like to change the side the buckle is on, remove the strap and keeper. Then start with the slot on the side that you want the buckle on, generally the outside. Go up, over, and down with the lead end of the strap.



Keeper

**Picture #6A**

***Keeper Installed on the Strap***

Red side of keeper is up. The end of the strap goes through the loops on the back side of the keeper.



**Picture #7**

***Strap Installation Complete***

“Wing” is ready to receive your Kayak – Keel Down



**Picture #8**

***Installation for Two Kayakers***

Two sets of “Wings” can be mounted on a roof rack. The wedges make it easier to fit two wide kayakers. 28” should be sufficient between the centers of the “Wings.” Install the hold down straps with the buckles on the outside of each set.



**Picture #9**

***Kayak on "Wings"***

The cover or tarp may be installed under the straps.



**Picture #10**

Danuu Kayak Cover (Straps over the cover)

**Ready to Roll!**