

Tide Pulley use with KayaArm on fixed dock in Tidal Waters

The Tide Pulley, when affixed to one of the attachment holes at the upper end of the KayaArm mast, enables height adjustment of the KayaArm arm that may be needed due to tide level changes upon return from a kayaking excursion. The arrangement consists of attaching the Tide Pulley assembly, replacing the chain with a rope and for tying off the rope adding a cleat at a location that is reachable from the returning kayaker in their

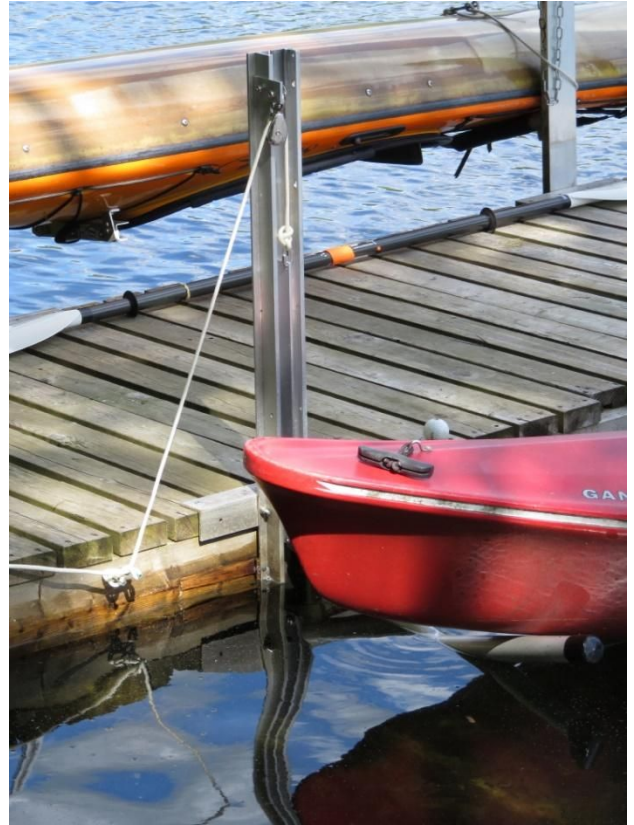


kayak.

As shown in the photos the bracket, pulley and bolts are assembled to fit onto the right side of the mast when facing the mast from the dock. Assemble it in the mirror image to mount it on the left side.

The photos also show two possible locations for an anchor cleat or hook for tying off the rope and one photo shows the chain added onto the end of the rope enabling chain link adjustment increments. Some experimentation will be needed to determine the best location for the cleat or hook. Key considerations are accessibility from the dock and from the water while in the kayak and also keeping the path clear for entering/exiting the kayak.

The pulley arrangement consists of an aluminum bracket, the pulley and all the stainless steel nuts, bolts and washers required. The customer provides the rope (1/4" polypropylene, twisted type vs braided for low stretch or a length of steel cable) and the cleat or chain hook as discussed above. Purchase at the purchase link.



Prior to the tide pulley development I offered the following procedure for arm height adjustment from the kayak. The difficulty with this procedure is that for a large water level change the kayaker can't reach the top of the mast to do the chain adjustment.

I launched my kayak using KayaArm on my dock, then returned to the dock and proceeded to do the following:

- o I came back alongside (not onto) the KayaArm arm.
- o From my position in my kayak I reached out, gripped the arm and raised the arm/shoe assembly enough (in the track on the post) so that I could move the kayak under it to a location beside the KayaArm post. (Hint: it may be easier to lift the arm if you put a little petroleum jelly (Vaseline) on the sliding shoe of the arm)
- o From that location I was able to reach the chain and chain slot for adjustment of the chain length that, when extended, would provide the desired arm height. (Hint: before launching as a reference point mark the chain link in the slot used for launching)
- o While still gripping the arm I pushed the kayak out from under the arm and lowered the arm to where the chain was fully extended.
- o If needed I would repeat the chain length adjustment more than once to get it right.
- o Then I paddled the kayak onto the arm and disembarked as usual.