



## HINGED MOUNT INSTALLATION INSTRUCTIONS

Congratulations on your recent purchase! Both the Gamut Paddle Holder and Versa Paddle Systems work with each of our mounts. These instructions include installation steps for the Hinged Mount. We've also included important tips for using your new system, along with a link to them below. We encourage you to share these tips with others who'll be using this product, if applicable.

### Refund Policy

Before you install your new mount, temporarily place it on your kayak on dry land to check the fit. If you receive a Versa or Gamut system and discover it does not fit your kayak, please contact us within 30 days for a refund (minus shipping and handling). Do not attempt to attach the mount, and keep all other components packed and in their original condition.

### VIDEO INSTRUCTIONS & USAGE TIPS

To watch a video on how to install your new mount, go [www.angleoar.com/installation-instructions](http://www.angleoar.com/installation-instructions) or use the links below to see them on our [YouTube](#) channel. While you're there, subscribe to our "Assembly & Maintenance Tips" Playlist for quick tips on using and caring for your system.

**Hinged Mount & Versa Assembly:** <https://www.youtube.com/watch?v=ByTyLI94b6M>

**Hinged Mount - Getting the Right Fit:** [www.youtube.com/watch?v=wT7qBm-4cwM&t=4s](http://www.youtube.com/watch?v=wT7qBm-4cwM&t=4s)

**Hinged Mount Installation:** <https://www.youtube.com/watch?v=Og5OZOwpKqw&t=3s>

**Apex Mount Installation:** [www.youtube.com/watch?v=2STHmvmk8U4&t=2s](http://www.youtube.com/watch?v=2STHmvmk8U4&t=2s)

**Twin Track Mount Installation:** [www.youtube.com/watch?v=FijcdVVRQ3k&t=6s](http://www.youtube.com/watch?v=FijcdVVRQ3k&t=6s)

**Customer Custom Mounts:** <https://www.angleoar.com/post/kayak-mounts-adaptive-kayaking>

**Blind Installation Demo:** [www.youtube.com/watch?v=GHWHPghjtUs](http://www.youtube.com/watch?v=GHWHPghjtUs)

**Inserting and/or Tightening the Steel Pin on Versa:** <https://www.youtube.com/watch?v=ykDinCuoGpU>

**Tips for Using:** <https://www.angleoar.com/tips>

### HINGED MOUNT

#### Tools Needed:

- Drill and bit (3/16" if you use the screws and nuts that are included)
- Marking device (e.g., pen)
- Phillips head screwdriver or drill bit
- Pliers or wrench (socket wrench or adjustable)
- Measuring tape (optional)

- Sealant (recommended)



### STEP ONE: ASSEMBLE THE HINGED MOUNT

Use the enclosed hex wrench to attach the T-Bar Connector that joins horizontal and vertical cross.

Thread the two t-nuts through the track adapter and loosely tighten the knobs. Slide the track adapter onto the main track and tighten the knobs.

Loosen the two horizontal compression nuts to remove the two extender tubes from the horizontal cross bar. Using your own adhesive, adhere one ball joint to each end of the extender tubes. Push the ball joints as far down on the tubes as they go and let them dry.

**NOTE:** The ball joints may feel secure even

without adhesive, but we recommend you use almost any type of adhesive, so they stay in the same position for eventual placement in the stabilization brackets.

### STEP TWO: CHECK THE FIT

*Before you do any drilling,* place the t-shaped Hinged Mount on your kayak. Check for the following:

Is there a place for the hinged plate to be placed on the front coaming and still have enough clearance to allow the vertical bar to hinge downward toward the paddler in a roughly 90-degree position? If not, try using one of the gaskets to adjust the positioning of the hinge.

**TIP:** You may want to watch this short video for tips on adjusting the mount to get the best fit: [www.youtube.com/watch?v=wT7qBm-4cwM&t=4s](http://www.youtube.com/watch?v=wT7qBm-4cwM&t=4s)

Holding the hinged plate in place with your hand, adjust the compression nut to extend the vertical bar and/or the horizontal bars to their logical attachment positions on the coaming. Is there a spot to attach the brackets on the side coaming? **Note:** If the Horizontal Arms with Attached Ball Joints are not already inserted into the Horizontal Bar, insert them now by loosening the horizontal compression nuts.

### STEP THREE: ATTACH THE HINGED PLATE

Remove the hinged plate from the mount by pulling the d-ring pin out and separating the plate from the rest of the mount. Place the plate in the proper spot on the front coaming and mark your drill holes with a pen. **IMPORTANT:** Be sure to get as close to a true straight/perpendicular placement as possible so that the entire mount will be in its proper alignment when in place. If it's not plumb or at a 90-degree angle, it may not rest in the side brackets properly.

Determine if you need/want to use one of the included hinge plate gaskets. Their use is optional, but in some cases, they will fill small gaps between the hinged plate and the coaming. If you need to use the wedge gasket in the other direction, you can drill holes directly through the gasket to align them with the inner holes of the hinged plate. Drill the four holes (or, optionally, just drill two holes). Use the screws (with or without the gasket but, ideally, with a sealant) to secure the hinged plate. Loosely tighten the nuts. You may need to use the pliers to hold the nuts in place while you use a screwdriver or drill to tighten them. Do not over tighten.

#### **STEP FOUR: FIT AND ATTACH STABILIZATION BRACKETS**

For this step, you may want to have an assistant on hand. Re-insert the extender tubes and ball joints if they are dry. Next, re-insert the d-ring pin into the hinged plate by aligning the holes so that the hinged mount is reattached. Gently lift it upwards and now actually sit inside the kayak, then lower it again. Loosen the vertical compression nut by twisting it to adjust the length of vertical bar relative to your body and the front of the coaming. Before re-tightening the vertical compression nut, loosen the two horizontal compression nuts and pull the arms with ball joints to rest on the coaming on each side of your cockpit. At this moment, you may want to slip on the clevis fork onto the support post and attach your Versa Paddle (or Gamut with your paddle) to see whether the distance feels right for your arms. Keep in mind, you can adjust the track adapter in the track to move it up to five inches. **TIP:** Put on your PFD for this step as the extra material may slightly impact where you decide to place the side stabilization brackets relative to your torso.

**NOTE:** This is where patience and proper fit becomes crucial. Once you have “about” the right distance from the front of the coaming, find a position on the side coamings where you can attach the stabilization brackets. There may be some curvature on the coaming and/or the brackets may overhang the edges a bit, but as long as there is sufficient space to attach them, you’ll be okay. Have your assistant hold the brackets in place and gently press the ball joints into each of them. **IMPORTANT:** Make sure the open sides of the brackets are facing inward. Check to see whether all three attachment locations (front coaming and two side coamings) are flush and well-positioned. If there is a gap or the mount leans slightly to one side, keep adjusting the placement of the stabilization brackets and/or the compression nuts until you feel satisfied of a good fit. Tighten all three compression nuts once you’ve achieved the ideal position. Have your assistant continue to hold the stabilization brackets while you mark the drill holes for each. They may be at odd angles, and that’s okay. Before you drill, put the ball joints in the brackets one more time to make sure the drill marks align with the brackets. **IMPORTANT:** It's better for the ball joints to be too loose and resting halfway in the brackets than too tight. Once you feel confident, use the correct-sized drill bit and drill the four holes (two on each side). If there is a gap between the brackets and the coaming you can use one of the sets of gaskets to compensate. Use the enclosed screws (with or without the gasket and/or but ideally with a sealant) to secure the brackets. Loosely tighten the nylon nuts. You may need to use the pliers to hold the nuts in place while you use a screwdriver to tighten them.

#### **STEP FIVE: FINAL FITTING**

Go back and tighten all eight screws and nuts and double check that the fit is still good. You should be able to easily lift the Hinged Mount out of the brackets. Adjust the knobs on the track adapter and move it to the position that is ideal for your body.

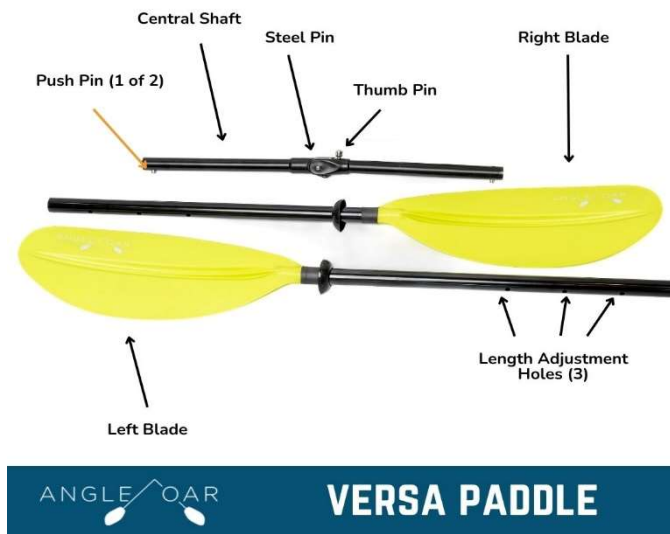
## STEP SIX: ASSEMBLE & ATTACH YOUR VERSA OR GAMUT SYSTEM

### Versa



With the mount installed, you are ready to [assemble](#) and attach your Versa Paddle. In some cases, the central shaft of your Versa Paddle will arrive in two pieces, (i.e., unattached). Simply locate the two-inch steel pin in your package and insert it through the center holes on each half. The section with the thumb pin should be on the right side, and the push pins should be facing downward on both sides. Try to face the flat edge of the steel pin towards the set screw and make sure the sides extending out of the hole are equal on each side (i.e., roughly 1/2 inch per side). Next, insert a 1/8" Allen wrench into the top hole to tighten the set screw that's embedded inside. Turn it to the right until it's snug. Now you should be able to transition the central shaft from straight to angled and back again. See

the link on the first page of these instructions to see a video on how to tighten it. **NOTE:** The set screw may become loose over time, so keep the Allen wrench to re-tighten it when needed.

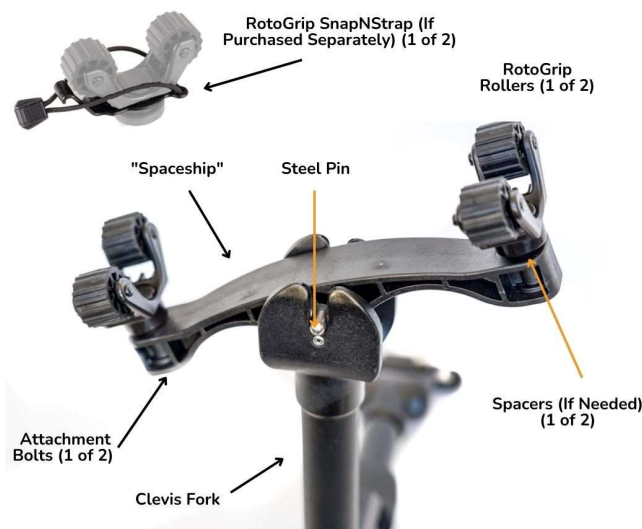


Next, insert each blade of your paddle onto each side of the central shaft. The length adjustment holes on each shaft should face downward, and the adjustable thumb pin on the central shaft should be on the right. Make sure you put the blades on their proper sides. (Hint: They are correct if you can see the Angle Oar logo on each blade, right side up, facing you.) For now, choose one of the three adjustment holes on the blades to snap the push pins into place, keeping the length the same on both sides. You can adjust the length whenever you want.

Slip the clevis fork onto the support post. Then pop the steel pin of the central shaft into the clevis fork, with the thumb pin on the right side. Go ahead and give your Versa system a spin.

## Gamut Paddle Holder

To assemble the Gamut, attach the two Roto Grips from the bottom, using either set of bolts, though the shorter bolts are generally sufficient. If your paddle has a cuff or other hindrance in the middle, which causes it to touch the Gamut "spaceship" piece when inserted, you may need to add spacers and use the longer bolts. Place either type of black spacers (e.g., single rubber spacers or stacked black washers) between the Roto Grips and the spaceship to create a little more room. Otherwise, simply use the shorter bolts without spacers.



**NOTE:** If you purchased the Roto Grip SnapNStraps, you must add those before securing the Roto Grips through the spaceship. Snap the clip into place over the round base. The hooked side should be angled upward.

Slip the clevis fork onto the support post. Next, pop the steel pin of the Gamut into the v-shaped area of the clevis fork. You may find that the "spaceship" doesn't initially move fluidly in the clevis fork, but it will become looser over time.

Grab your paddle and give it a spin!



## TIPS FOR USING VERSA & GAMUT

### Both

Be gentle with your system. There are multiple moving parts that can get lost or broken if handled roughly. Clean your system after each use and store the components in a designated storage bag/container. Consider having a backup paddle on-hand. Share these tips with your team, if applicable.

The Versa or Gamut can be difficult to remove from the clevis fork, by design. You can consider taking a metal file to the v-shaped metal plates inside the clevis fork and filing them slightly. Be very careful because if you file it too much, the steel pin that holds the Versa or Gamut will slip out too easily from the clevis fork while you're paddling. Better too tight than too loose.

If you find the clevis fork raises up on your support post as you're paddling, try to use a slight downward pressure and/or gravity with your hands during the push-pull of the paddle stroke. If you're doing it correctly, the clevis fork should not lift up, only turn about the support post. Consider adding a tether to avoid losing the clevis fork.

Occasionally, the epoxy seal that holds components together may break. You can use a suitable epoxy from a local hardware store to reconnect them. Allow time to dry.

### Versa Only

Practice using the thumb pin to change the angle of Versa. Do this on dry land. Lift the left shaft up a bit to take the pressure off the thumb pin in its slot so that it can be adjusted. Pull back toward the right on the button to retract it. Also practice using the three push pins on each shaft to adjust the length of the paddle.

For entering and exiting your kayak, simply flip the hinged mount up. Avoid putting your body weight on the mount as you may damage the stabilization brackets, hinge plate and/or mount.

We've found that it's easiest, if you are able, to use the paddle straight and off the mount upon entering and exiting the water. Straight mode and on the mount works well in open water conditions where you may have choppy water. Angled and on the mount works well when the water is very calm as it minimizes the likelihood of the paddle skipping on the water during strokes.

The stainless-steel pin that connects Versa's central shaft should be tight when you receive it. If it loosens over time, just open up the angled component to access a hole that contains a set pin. Use a small 1/8" Allen Wrench to tighten the set pin by turning to the right. See our YouTube channel for a video demo.

Both Versa paddle shafts contain a small amount of foam to aid in flotation, however, it occasionally it will not be enough to hold the weight of the paddle. We recommend adding additional spray foam in each shaft, being careful not to extend the foam past the first shaft hole, or even adding pool noodles to the shafts.

### Gamut Only

The "spaceship" piece of your Gamut may be a little tight when inserted in the clevis fork. It will loosen over time. If desired, however, you can add a small amount of lubricant (e.g., WD-40) or even lightly sand/buff the area of the spaceship around the steel pin to create a narrower fit.

If you haven't already purchased them, we recommend using the [RotoGrip SnapNStraps](#) to keep the paddle securely in place as it can occasionally pop loose from the RotoGrips during paddling.