

Installation OUTLINE Gorilla Bracket with Thru Hull Install (Illustrations Follow):

- 1) Initially identify Gorilla bracket mounting location on hull. Ensure both sides have appropriate clearance from structures such as rudder release lever; seat travel; and rod holders.
- 2) Drill 1/4" holes into hull using the outer 1/4" holes on Gorilla mount as spacing and drill guides.
- 3) Option: Remove rod holders for better access to rear bolt hardware.
- 4) Using 1/4" hardware, install cushions, Gorilla bracket and secure to kayak hull. Do not over tighten. Note: You may want to reinstall rod holder after the rear hardware is installed by pivoting the Gorilla mount 90 degrees to have access to the rod holder cavity.
- 5) Once all 1/4" hardware are installed, slide crossbar inside Gorilla brackets. Center crossbar fore and aft and secure to the underside of Gorilla bracket temporarily with wood clamps.
- 6) Keeping crossbar squarely under the Gorilla bracket, move crossbar side to side until the right side projection allows the right leg to sweep up cleanly adjacent to the right side hull. Ensure that there is no structure hanging over on the left side that would require additional clearance of the leg. If so, adjust accordingly.
- 7) Measure the distance "X" from the outer edge of the right side Gorilla bracket to the front edge of the crossbar (the aluminum edge, not the edge of the plastic insert).
- 8) Place some masking tape on the left end of the crossbar. Repeat measurement "X" from the left outer edge of the Gorilla bracket to the front edge of the crossbar. Leave crossbar in place for next procedure.
- 9) Before drilling the crossbar mounting holes, use packing foam or other similar material between the side of the crossbar and the Gorilla bracket to eliminate shifting during the next drilling procedures.
- 10) With the crossbar centered fore and aft and side to side, drill the first 5/16" mounting hole through the top and bottom wall of the crossbar, using the Gorilla bracket as a drill guide. SUGGESTION: Use either a stop collar or masking tape to limit drill travel so the 5/16 bit does not impact or drill through the kayak hull.
- 11) After the first crossbar mounting hole is drilled, temporarily insert a 5/16" mounting bolt through Gorilla mount and into crossbar to secure position of the crossbar. Move to the opposite side; inspect and ensure the crossbar is centered fore and aft inside the Gorilla bracket; adjust accordingly. Drill the second hole in crossbar and secure with a second bolt. Now drill the 3rd and 4th 5/16" mounting holes.
- 12) Remove 5/16" hardware and crossbar assembly; cut crossbar at the appropriate location and angle to mirror the right side; use either the tooling, a protractor, or the left side insert to guide the cut angle.
- 13) Use the included tooling to drill the left side Freedom Bracket mounting holes. You may need to flip the crossbar upside down to get the tooling to match up with the crossbar angle. Clean hole bores.
- 14) Debur the 5/16" holes and left edge of crossbar.
- 15) Install the left crossbar endcap with included insert. You are now ready to permanently mount the crossbar to the Gorilla bracket
- 16) Slide the completed crossbar through the Gorilla brackets, ensuring the front of the crossbar is facing forward.
- 17) Install the 5/16" x 3"L bolts through the Gorilla brackets and into the crossbar mounting holes. Secure each bolt with washer, lock washer, and nut (see illustration).
- 18) Follow procedures to assemble Freedom bracket to the crossbar as contained in the main assembly manual.

- 1) Initially identify Gorilla bracket mounting location on hull. Ensure both sides have appropriate clearance from structures such as rudder release lever; seat travel; and rod holders.



You may encounter a tradeoff of moving crossbar as far forward as possible, or further back to gain a rod holder or two but sacrificing unobstructed room in rear tank well. Choice is yours.

Recommendation to use the round load cushion on the top side between the Gorilla bracket and the hull.

- 2) Drill 1/4" holes into hull using the outer 1/4" holes on Gorilla mount as spacing and drill guides.
- 3) Option: Remove rod holders for better access to rear bolt hardware.



After drilling first 1/4" hole, it is good practice to insert 1/4" bolt through gorilla bracket so the second hole is appropriately spaced relative to the first hole.

Repeat procedure on the other side.

- 4) Using 1/4" hardware, install cushions, Gorilla bracket and secure to kayak hull. Do not over tighten. Note: You may want to reinstall rod holder after the rear hardware is installed by pivoting the Gorilla mount 90 degrees to have access to the rod holder cavity.



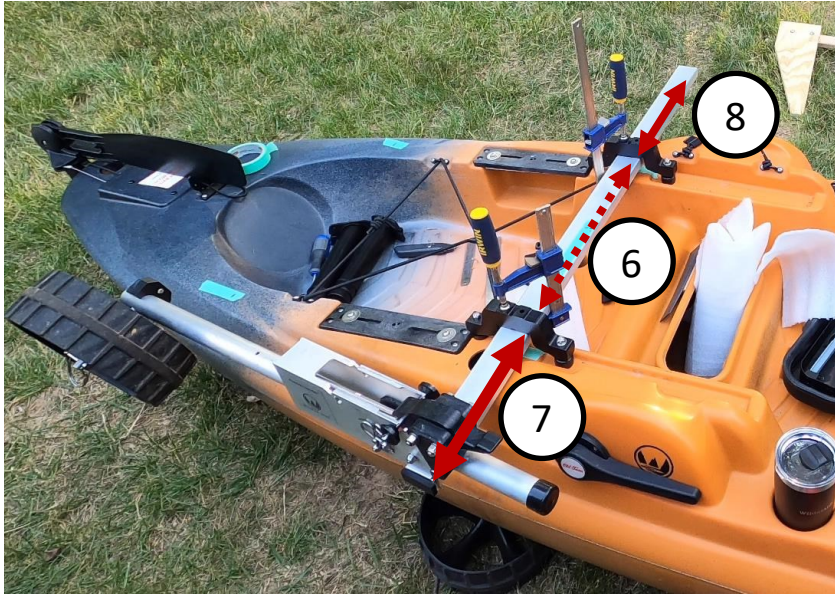
Note: Recommend to use just hand tools like a nut driver to reduce chance of over tightening 1/4" hardware. Tighten to reduce play in joint but do not tighten past this point.

See addendum for Gorilla thru hull mounting hardware kit advice on selecting appropriate cushion for under hull use.

- 5) Once all 1/4" hardware are installed, slide crossbar inside Gorilla brackets. Center crossbar fore and aft and secure to the underside of Gorilla bracket temporarily with wood clamps.



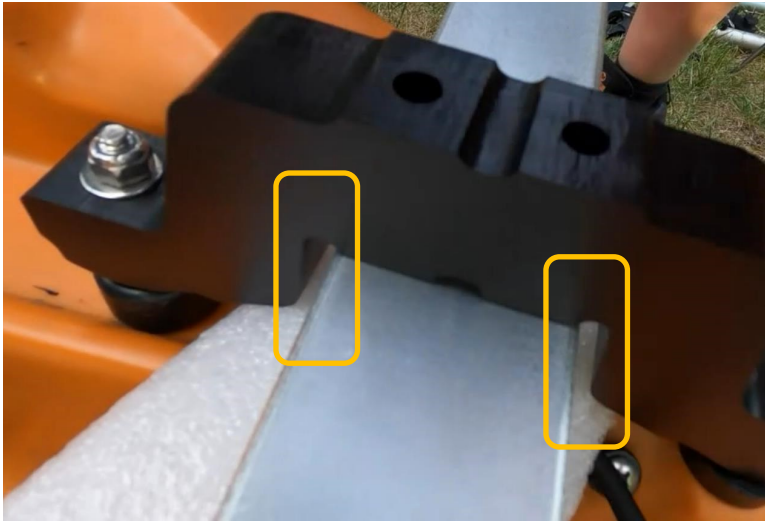
- 6) Keeping crossbar squarely under the Gorilla bracket, move crossbar side to side until the right side projection allows the right leg to sweep up cleanly adjacent to the right side hull. Ensure that there is no structure hanging over on the left side that would require additional clearance of the leg. If so, adjust accordingly.



It is recommended that you temporarily install the right side Freedom Bracket and leg so that the leg can be positioned up and down. Ensure there is appropriate clearance between the leg assembly and the hull of the kayak through the range of motion.

7. Measure the distance "X" from the outer edge of the right side Gorilla bracket to the front edge of the crossbar (the aluminum edge, not the edge of the plastic insert).
8. Place some masking tape on the left end of the crossbar. Repeat measurement "X" from the left outer edge of the Gorilla bracket to the front edge of the crossbar. Leave crossbar in place for next procedure.

- 9) Before drilling the crossbar mounting holes, use packing foam or other similar material between the side of the crossbar and the Gorilla bracket to eliminate shifting during the next drilling procedures. Maintain equal distance in gap between crossbar and Gorilla



For best results, maintain approx. equal gap



Packing foam works to temporarily stabilize joint during upcoming drilling procedure.

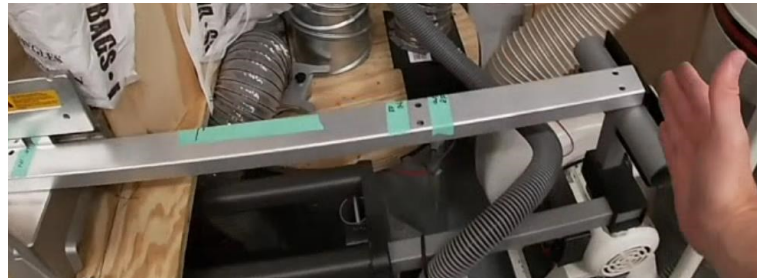
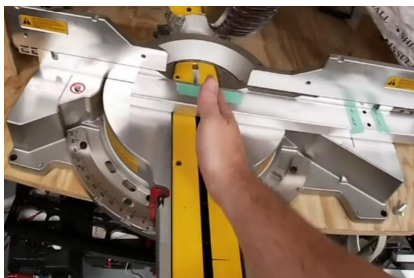
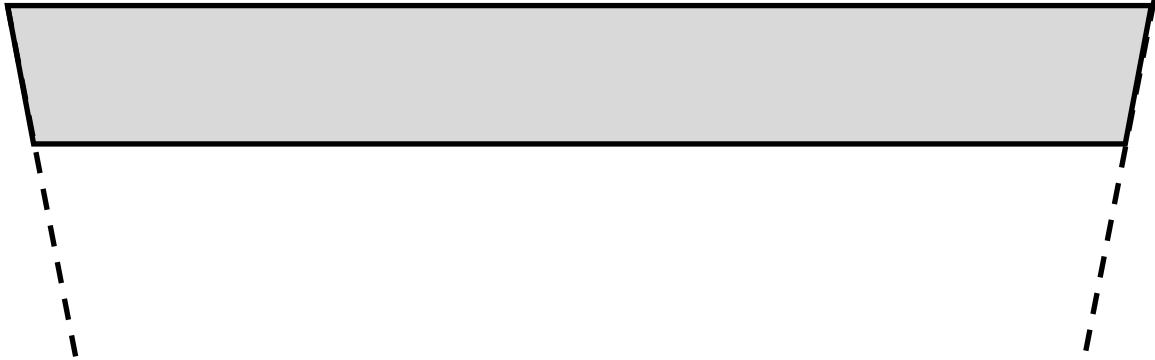
- 10) With the crossbar centered fore and aft and side to side, drill the first 5/16" mounting hole through the top and bottom wall of the crossbar, using the Gorilla bracket as a drill guide. SUGGESTION: Use either a stop collar or masking tape to limit drill travel so the 5/16 bit does not impact or drill through the kayak hull.



11) After the first crossbar mounting hole is drilled, temporarily insert a 5/16" mounting bolt through Gorilla mount and into crossbar to secure position of the crossbar. Move to the opposite side; inspect and ensure the crossbar is centered fore and aft inside the Gorilla bracket; adjust accordingly. Drill the second hole in crossbar and secure with a second bolt. Now drill the 3rd and 4th 5/16" mounting holes. NOTE: If you remove the wood-clamps to allow for drilling; jam and/or hold the crossbar securely so it doesn't shift during the drilling operation.



12) Remove 5/16" hardware and crossbar assembly; cut crossbar at the appropriate location and angle to mirror the right side; use either the tooling, a protractor, or the left side insert to guide the cut angle. From the rear of the crossbar, ensure that both sides angle in towards you to follow the curvature of the rear hull. SEE BELOW



Note: Use whatever tool you can safely cut the crossbar. Note: Use of power tools like a sliding miter saw can create dangerous conditions if the tool grabs the workpiece and “flings” it about. A safer tool would be a hacksaw or a manual miter saw if you have no experience cutting aluminum on a power saw.

13. Use the included tooling to drill two 5/16" holes for the left side Freedom Bracket. Suggest using two quick clamps to secure bar before drilling. You may need to flip the crossbar upside down to get the tooling to match up with the crossbar angle. Clean / debur hole bores.



14) Debur the 5/16" holes and left edge of crossbar.

15) Install the left crossbar endcap with included insert. You are now ready to permanently mount the crossbar to the Gorilla bracket

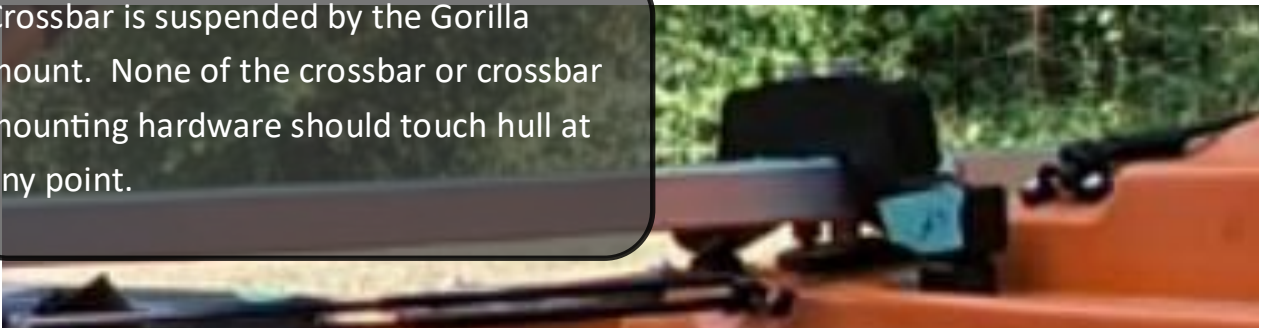


16) Slide the completed crossbar through the Gorilla brackets, ensuring the front of the crossbar is facing forward.

17) Install the 5/16" x 3"L bolts through the Gorilla brackets and into the crossbar mounting holes. Secure each bolt with washer, lock washer, and nut (see illustration).



Crossbar is suspended by the Gorilla mount. None of the crossbar or crossbar mounting hardware should touch hull at any point.



18) Follow procedures to assemble Freedom bracket to the crossbar as contained in the main assembly manual.