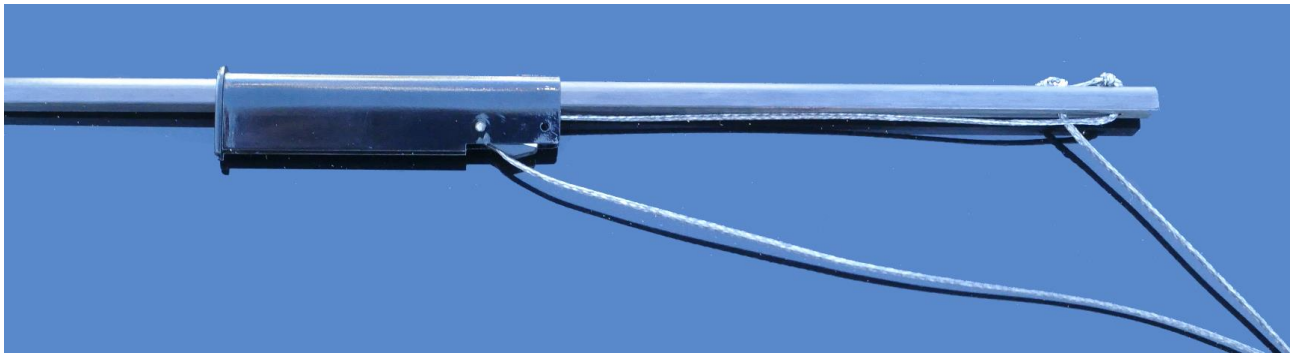
MACH 2

McDOUGALL McCONAGHY

2.6 BOWSPRIT SETUP GUIDE

WAND ASSEMBLY

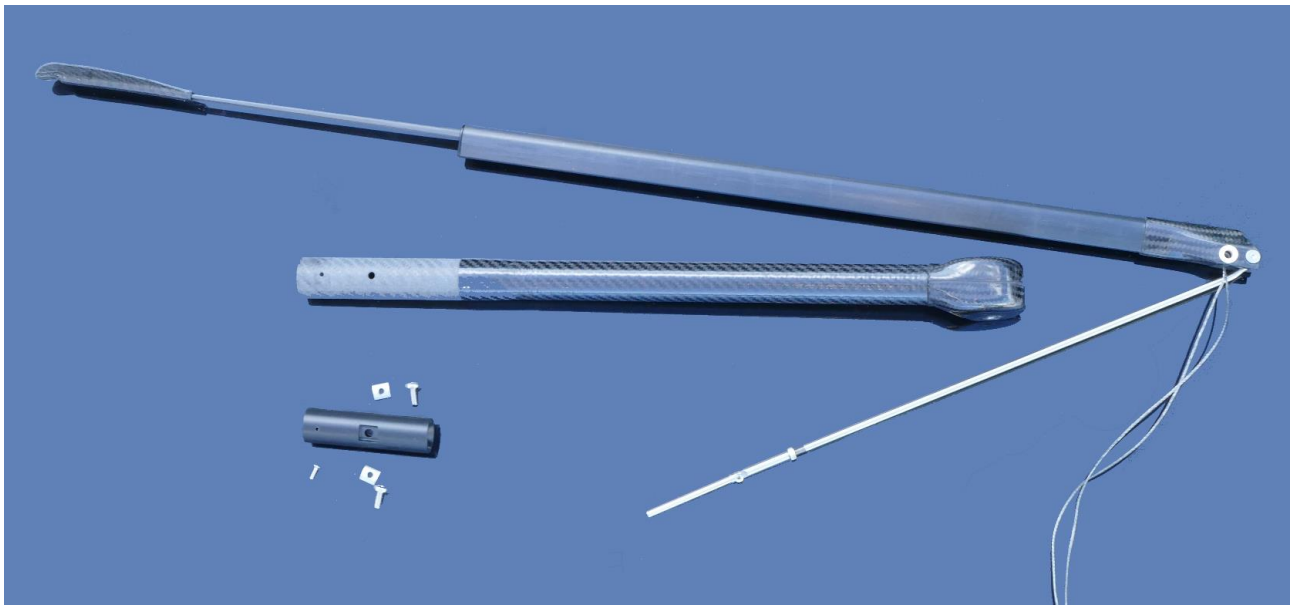
1. Using the two 5m lengths of 1.5mm grey Dyneema from Kit1, tie as shown. We suggest using super glue AND melting the ends to secure the knots.



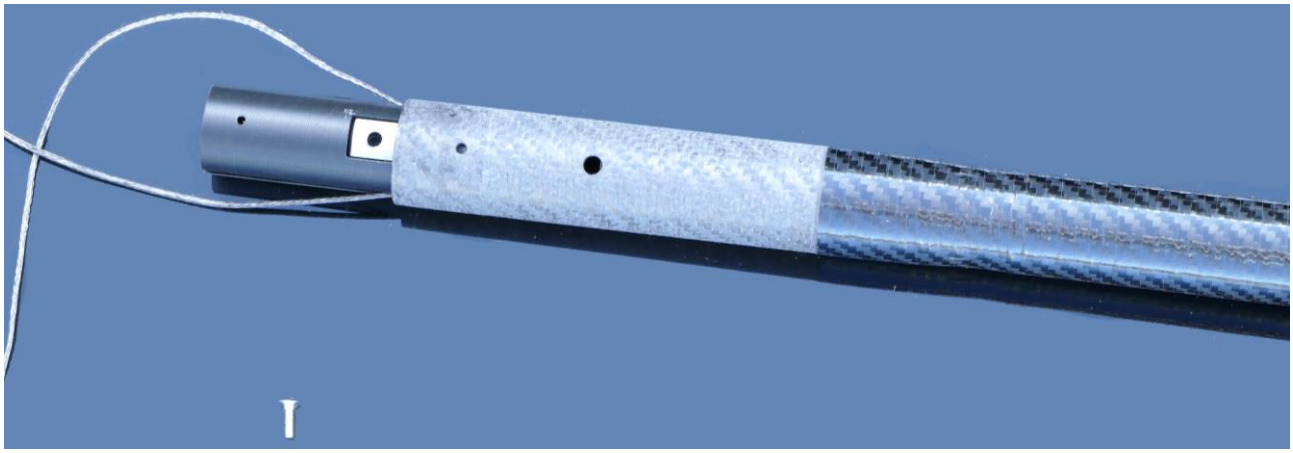
2. Pull the ropes through the wand shaft

3. Check adjustment of the pull rod. Make sure the holes are rotated as shown and tighten lock nut.

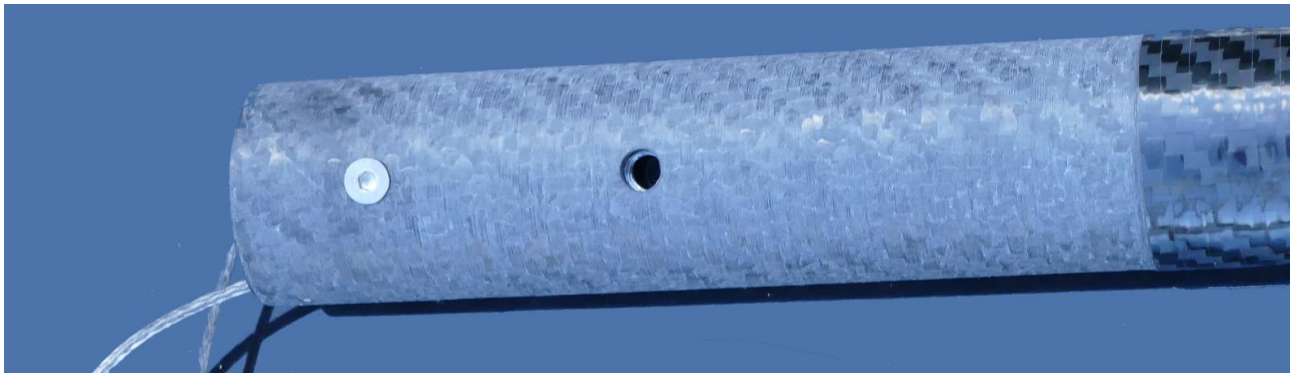
4. Assemble Slider to Pull Rod (M3x6mm Bolt) and Pull Rod to Wand Tube Assy. Use Loctite 243 on both. Ropes go below the Pull Rod Axle.



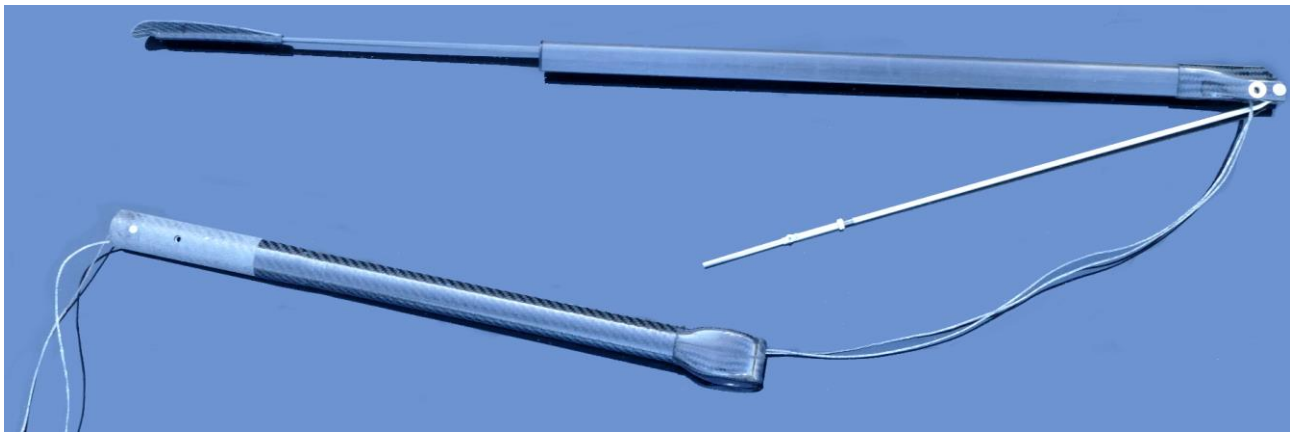
5. Insert the Slider Casing with nuts inserted, and the rope in the Casing slots.

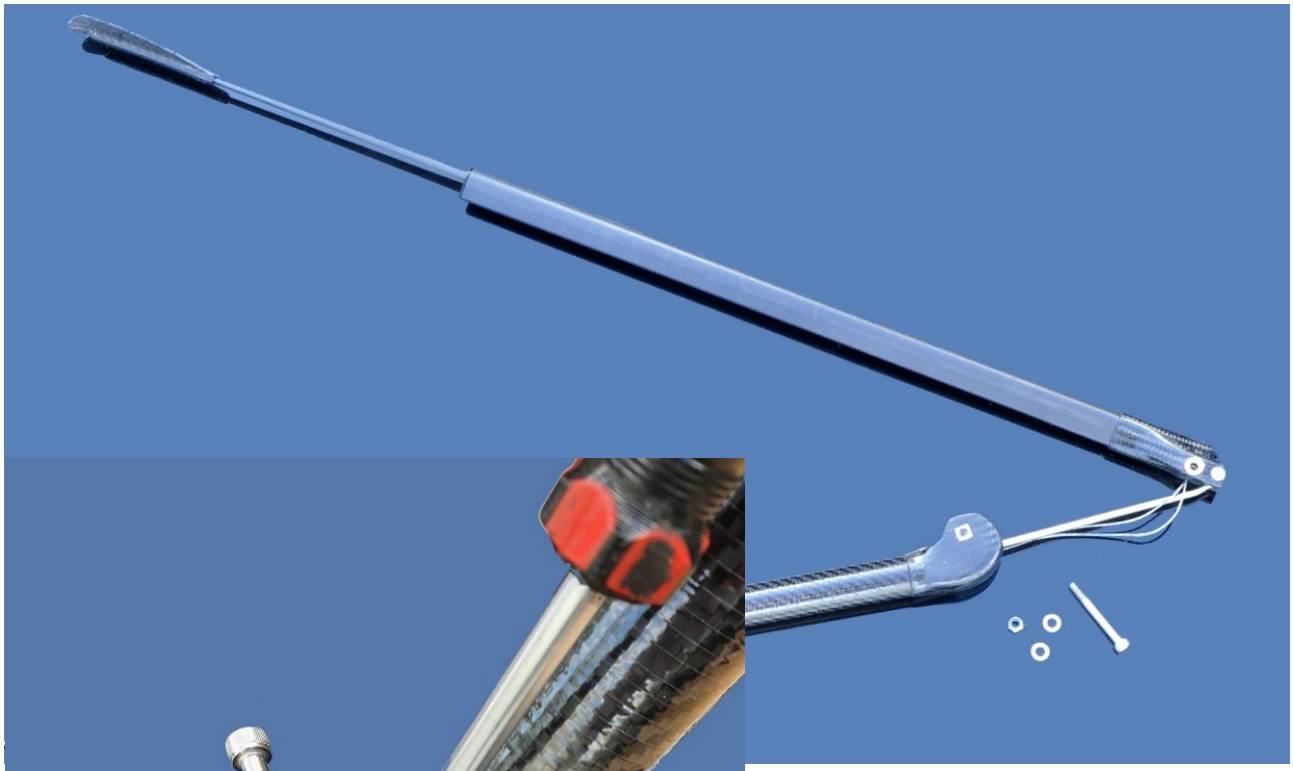


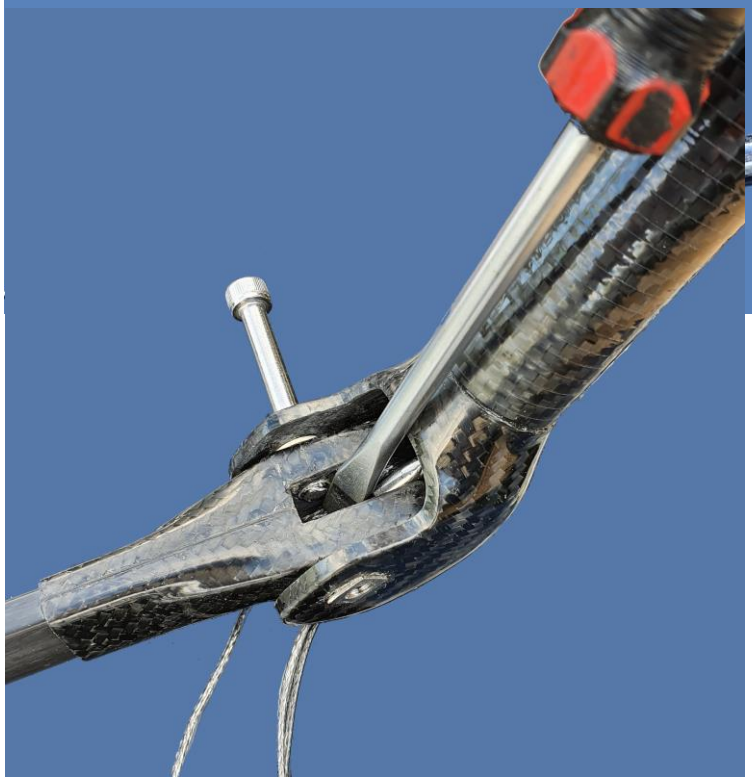
6. Insert the small screw. No need for Loctite here.



7. Install the Wand Axle with 2 washers on the Axle head side. Run the control lines over the top of axle, you will need something to poke the lines out of the way as you push the bolt into place. Tighten the wand axle such that the wand can swing freely but does not have any sideways movement. Install the locking nut onto the axle.







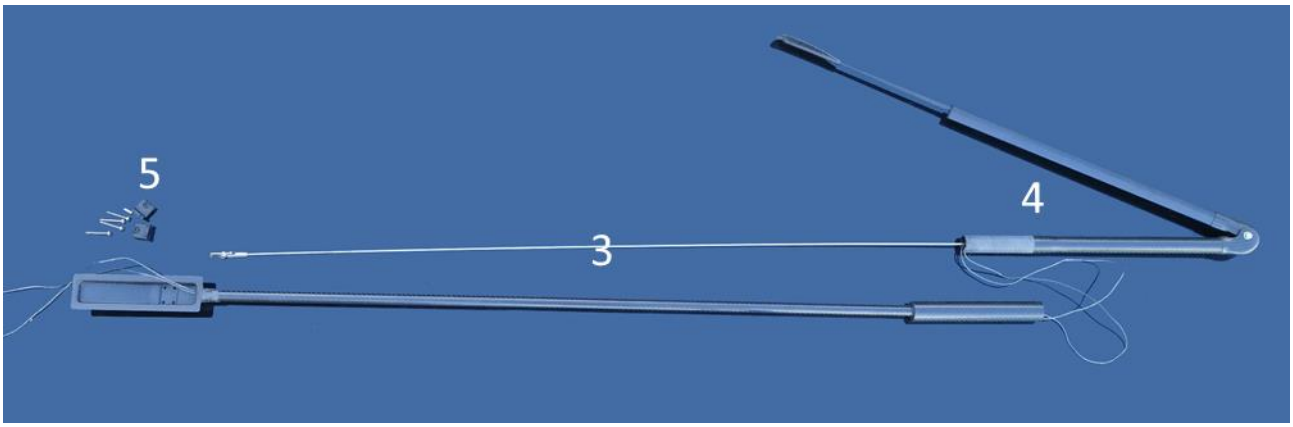
Note: With a new boat you will need to first disassemble the Hull Pull Rod Assy from the boat.

8. Assemble the Pull Rod Rear End (2) to short end of Reversing Lever (1) (use M3x6mm Bolt) using 243 Loctite.
    a. When assembling the longer side of the slot will be up.
    b. Make sure Revering Lever does not bind.
    c. Assemble with bolt head to the right (less likely to unscrew this way)

9. Attach Hull Pullrod (3) to the Bow Sprit (4) – Screw in firmly, no Loctite.

10. Attach the Pull Rod Rear End to the Pullrod, no Loctite.
    a. To start with screw the Pull Rod in so the end just appears in the slot.

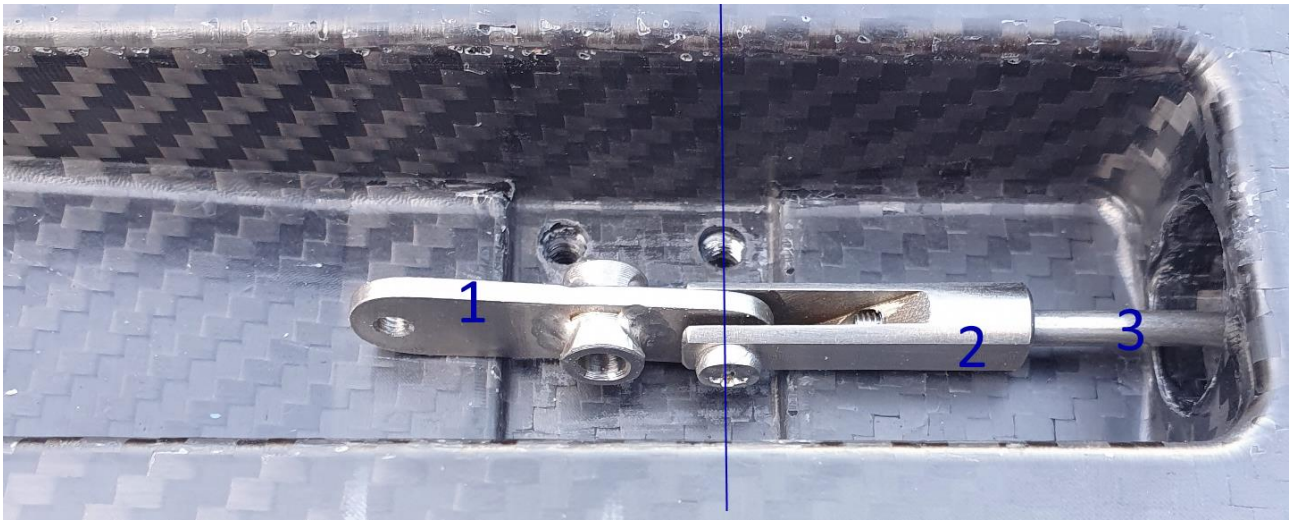
11. Pull the ropes through the Hull Pullrod Tube.



12. Using a rope, pull the Pullrod assembly through the tube.

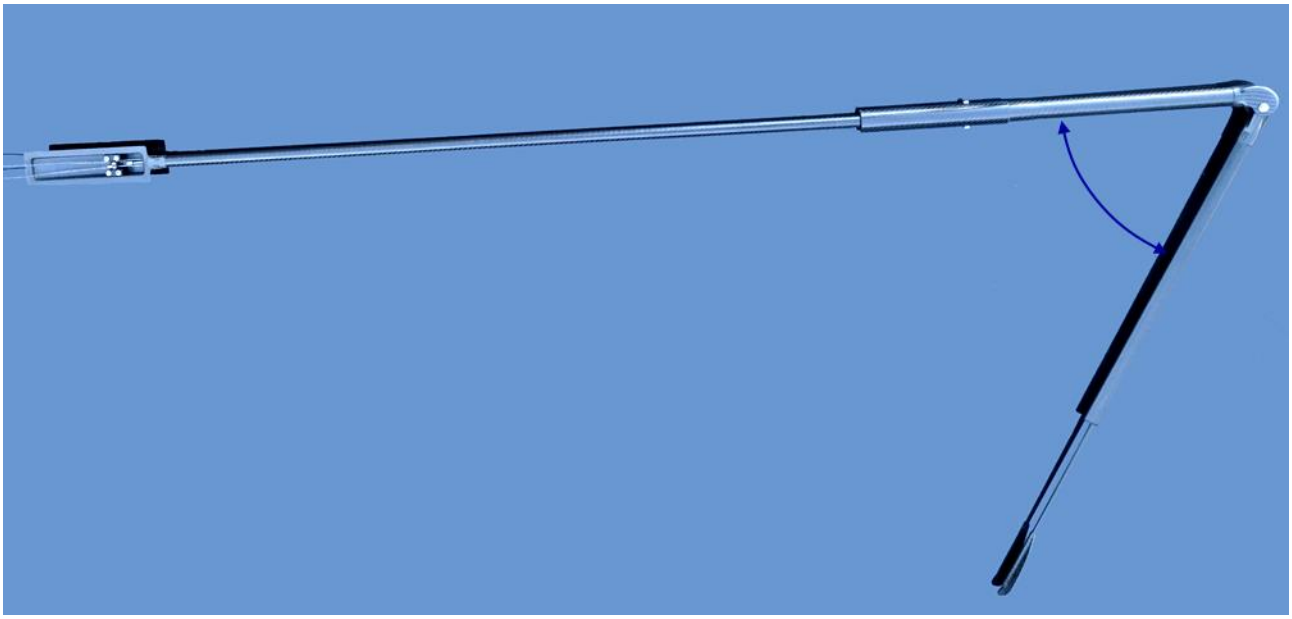
13. Bolt the Bowsprit to the boat – M5x10 Bolts.

14. With the wand fully back (fully extended and sitting on the trolley frame), adjust the pull rod length so the bolt in the Hull Pull Rod Rear Connector (2) aligns with the front two bolt holes in the deck cavity.



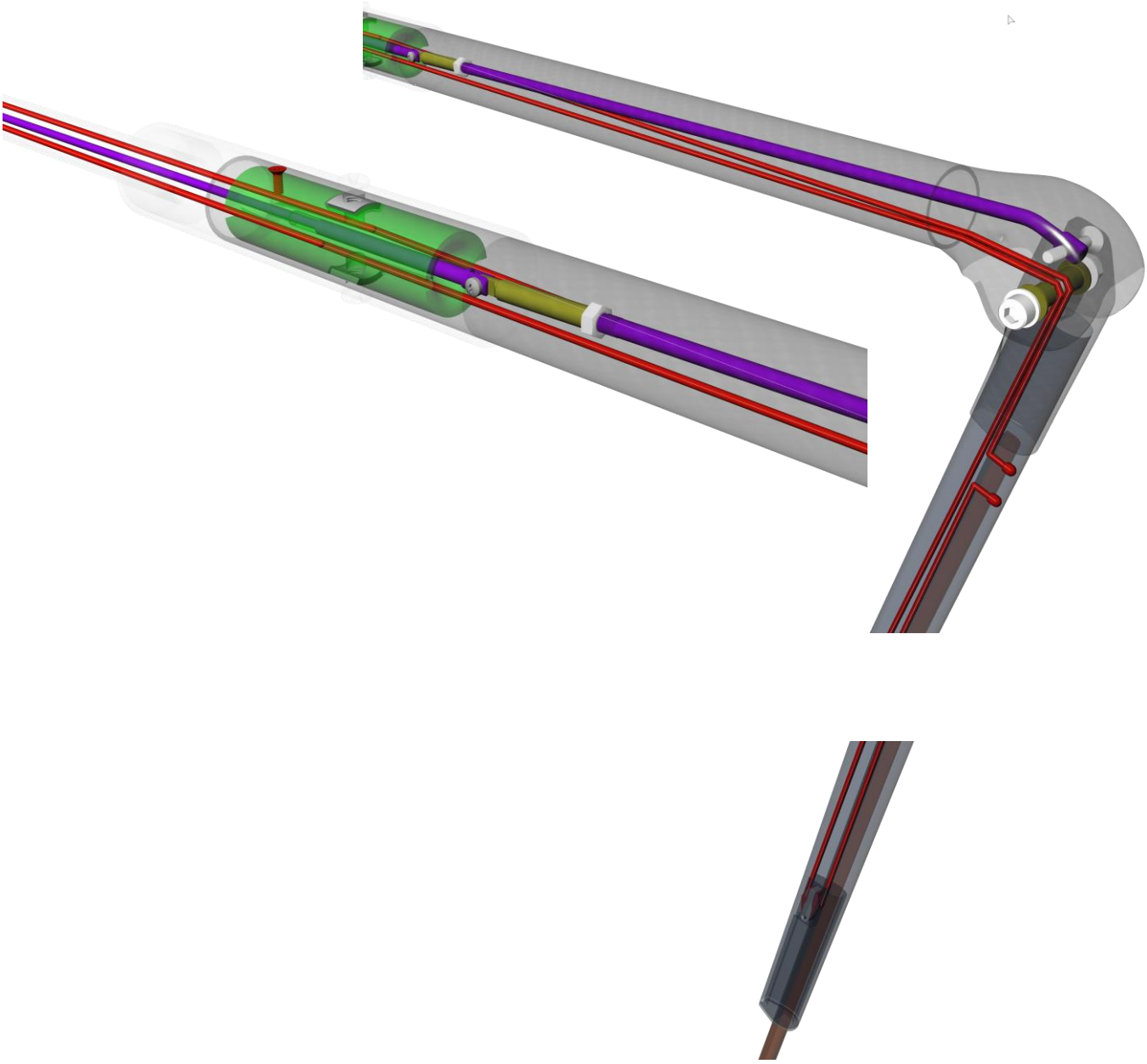
15. Assemble the Reversing Lever Axle and Bearing (5) in the boat. Loctite optional on bolts.
    a. Check the long side of the slot in the Hull Pull Rod Rear End is up.
    b. .. and bolt head is to right (starboard).

16. If everything is right, the reversing lever will be vertical with the wand angled at 60-65°.



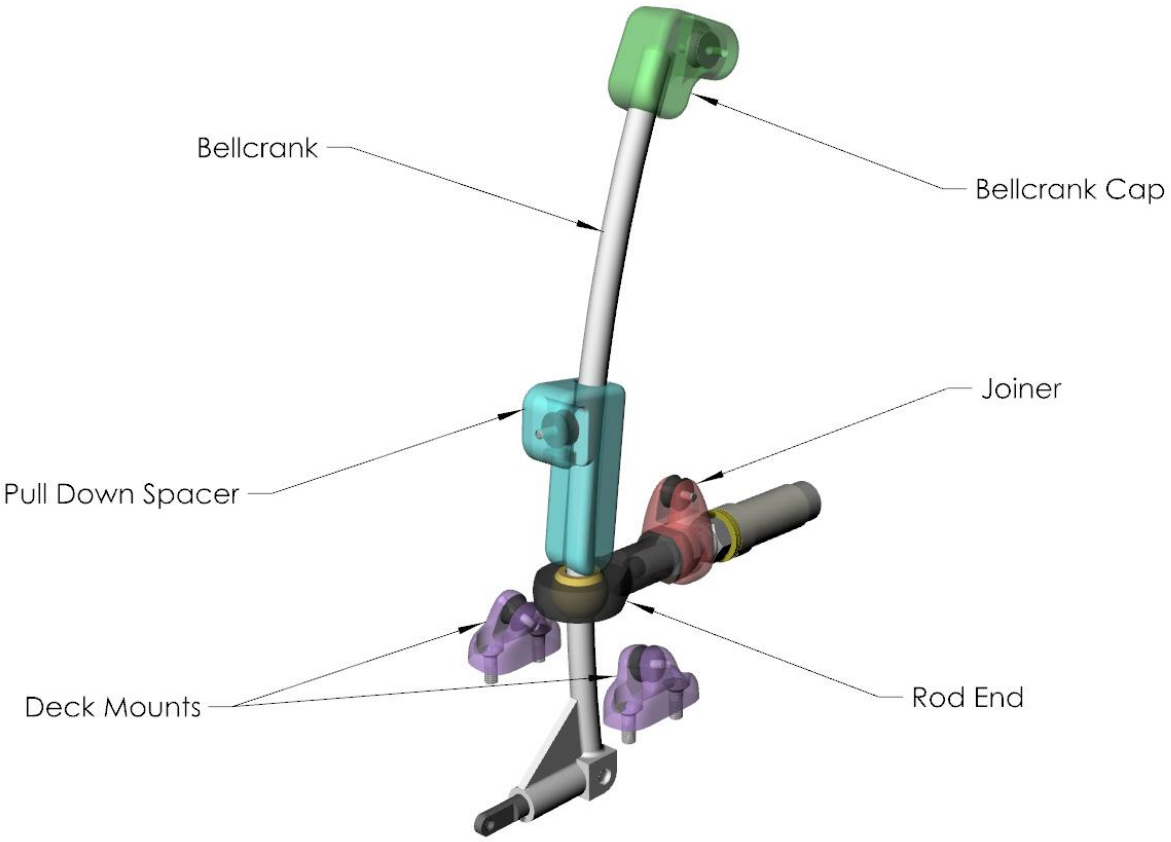
17. Attach Ride Height Adjuster (M3x8 bolt)
    a. Use Loctite 243
    b. Check there is no binding.
    c. Again, make sure the bolt head is to right.

Some x-ray pics to help you see how it is assembled

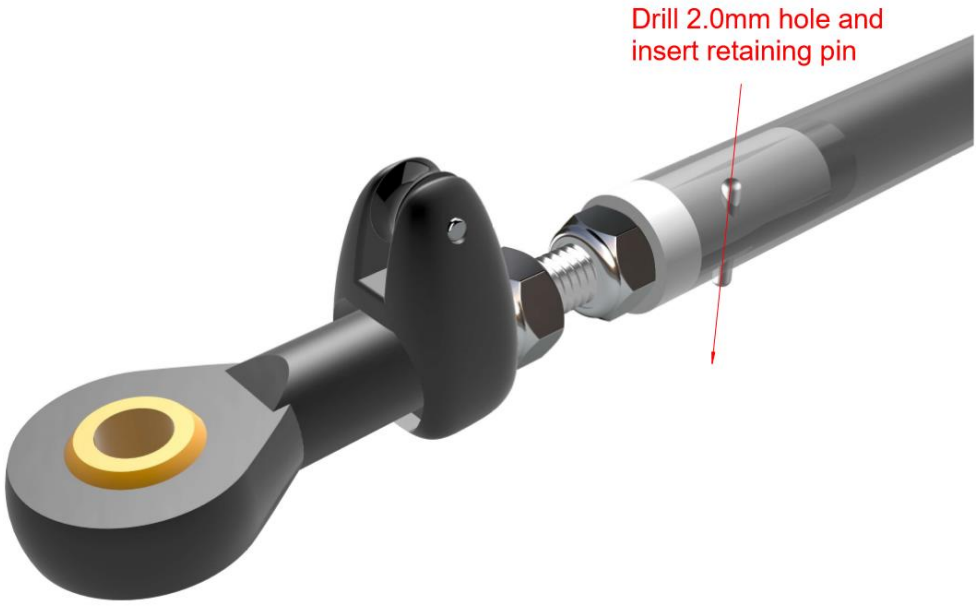


Note: If racing, you will need to ensure that your wand does not flick further forwards of 500mm from the bow as per the Moth Class rules.

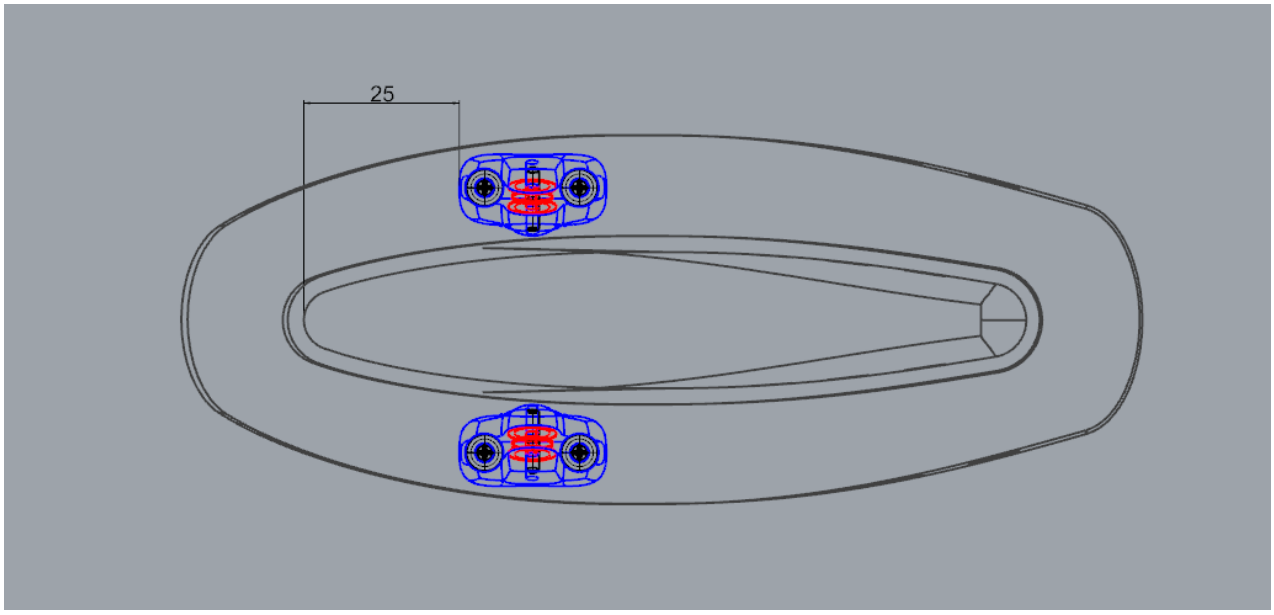
GEARING/BELLCRANK SETUP



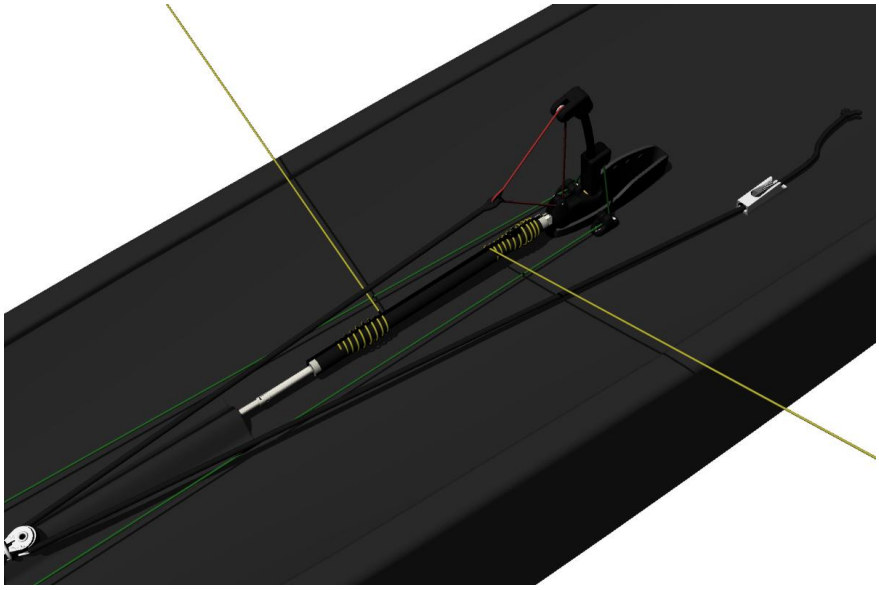
- **If refitting a 2.3 RHA**, the new RHA back end should be assembled as per the image below and inserted into the Mach2.3 RHA barrel.



- The deck mounts can be screwed into the deck by drilling 2.5mm holes into the deck using the plastic mounts as templates for the holes. Once drilled, the holes can be tapped with an M3 tap. When screwing the mounts in, ensure to screw them in with an adhesive such as sikaflex. Arrange the deck mounts 25mm back from the inside of the centreboard case as shown below before drilling. The screws used should be M3x10mm Countersunk.



- The gearing control lines can now be set up as shown below. The red line acts as both the wand bungee and pulls the rod end upwards, reducing gearing. This line should be attached to bungee which is preferably able to be adjusted (The picture shows the 2.4 setup going forward to a block then back aft to a cleat mounted on the deck). The green control line controls the gearing adjustment by pulling on the pull-down spacer. Once threaded through the pull-down spacer and deck mounts, the line is run forward and split out to cleats on each wing to control on the fly (this part of the system is not supplied).



- For the full rope setup guide, see *Mach2.6 Control Rope Diagrams*

Note: Unless already done in the factory, your Mach 2 will need the trolley handle lowered to allow the bowsprit some clearance.