

DF65 Assembly Simplified – A Process of Steps

This does not replace the excellent supplied instructions, but provides some guidelines and suggestions to streamline the process.

General Use of Line – go ahead and use/cut longer lengths of spectra line than suggested for all of the rigging set-up. The instructions occasionally tell you to cut a certain length of line. Luckily, the kit provides enough to line to allow cutting lengths long enough to work with comfortably

A. Phase One – Stand Assembly, Hull Prep, Electronics, Foils, & Mast Assembly

1. Build Stand – most time consuming and non-gratifying part of the process. Can be left until the keel and rudder are attached
2. Glue in the Screw Eyes – use epoxy or Gorilla glue to seal the screw eyes, turning block screws, & backstay screw. This helps prevent unwanted water intrusion.
 - The mainsheet bridle screw eyes, which are already rigged with bowsies, need to be glued in as well. This means you'll need to cut and re-rig one of the two bowsie purchases. Don't try to reuse the short line – place it with a longer line that's easier to work with
3. Hull Graphics – if vinyl hull graphics are added, it's best to apply them before building up the hull while the boat is still a bit easier to handle
4. Electronics
 - If the receiver needs to be installed, add the velcro tab to the tray in the port aft quarter and make the wiring connections as shown in the instructions.
 - Use Corrosion X product as a preventative against water intrusion, swabbing the Corrosion X over the surfaces of the electronics & servo
 - Plug in battery or battery pack
 - Power up boat first, then power up transmitter to check functions
6. (Optional) Seal keelbox if desired – black keelbox can be removed and disassembled. Original gaskets at the top and bottom can be replaced with clear silicone sealant.
7. Keel Assembly & Bolts, Bridle – Follow instructions for installing the keel foil and bulb. Attach bulb to foil first, use locktite on threads of bolt. Then insert foil into keelbox. Insert bolt on deck side. Bridle ring, with bridle line & bowsies attached, goes between the bolt head & deck. (see instructions)

8. Rudder Assembly — Loosen tie-rod at the servo end for adjustment. Slide rudder post up through fitting with steering arm perpendicular to fore & aft. Tighten rudder fitting bolt. Thread tie-rod back through steering arm fitting and tighten

9. Glue Mast Together — Fit the long mast section to the short mast section with the tang facing downward towards the long section. The assembly will be glued together with a small amount of glue — Gorilla glue or epoxy — be sure to make sure that the spar is straight. It can be left in the mast step standing in approximate position to dry with tang faced forward.

This is a good place to pause to let the glues set — it's best not to fiddle with the mast and rig before everything sets up

B. Phase Two — Rig

It generally works best to work on the rig assembly while it is flat on a table — it's nice to use the original packing cardboard for the sails as a work surface.

Rig Main Boom

- Cunningham line — can be tied with a bowline to the gooseneck eye or around the vang rod.
- Mainsheet line — follow instructions for bowsie purchase.

Rig Jib Boom

- Jib Loop Attachment, 46mm from eye to spar. Take 200mm length of spectra and double over in half. Tie 10mm loop with overhand knot. Measure 46mm from loop end and mark on tails with pen. Tie another overhand knot, adjusting so knot is taught at pen marks at 46mm. Tie the tails to the jib boom so the second knot is tight against the jibboom. This should be at 63mm from the space between the jib counterweight and forward end of the jibboom
- Jibsheet line — follow instructions & photos for bowsie purchase.
- Shorten working end of the topping lift line attached to the clew end of the spar. It can be cut to leave 10 inches of the original line that is attached to the boom. (Save the rest of the line to use for the jib halyard & forestay purchases and the backstay purchase)

Attach Main to Mast

- Wire Clips or Tie on, 4 beneath tang, 1 above
- If tying on the attachment rings, use a 3mm allen wrench as a spacer to allow consistent clearance between the luff of the sail and the spar. Tape the wrench to the mast. Tie the spectra line tight to the mast/wrench.
- You can also use the smallest size of plastic wire ties.

Install Masthead crane

- Fit crane to masthead plug, use a drop of CA glue to hold together.

- Insert plug assembly, do not glue, check to see that there is some ability to rotate
- Tie main hoist so top of sail even with metal band

Rig Main Boom, Pt. 2

- Slide boom gooseneck up through mast base
- Rig Cunningham purchase with bowsie. Go up with length of line that has been tied to the gooseneck eye (or vang rod) and then up through the tack of the mail, then back through the gooseneck eye, through the bowsie twice, then out through the outboard vang hole, then back to deadend in the bowsie
- Tie on Clew of the mainsail. Use a length of spectra, first tied to the sail with a square knot, then tied to the boom with a square knot

Rig Backstay

- Bowline to masthead crane
- Length of line long enough to reach the end of boom (about 4 to 5 inches above the deck), bowline to ring

Rig Forestay & Jib Cloth Tensioner at Tang

- Length of finished forestay tensioner
- Length of finished jib cloth tensioner

Rig Jib Topping Lift

- Bowline to Jib Tang
- Length of line to end of boom, bowline to ring

Rig Jibboom, Part 2

- Unscrew Jib boom counterweight, thread threaded post through forestay eye at the tack of the jib
- Tie jib tack to jib boom (square knot to sail, tie tails to jib boom with square knot)
- Tie jib clew to jib boom between rubber slides (square knot to sail, tie tails to jib boom with square knot)
- Rig jib boom end of the topping lift to ring, and back through the bowsie to create purchase

Rig Backstay, Part 2

- Create bowsie purchase through the backstay ring with 10mm loop at lower end that will hook the backstay ring

Step Mast

- Jib boom tie down goes through forward eye, through the middle eye, loop over hook
- Backstay loop into the hook on the transom. Take up slack in the bowsie purchase. position of master sheet hook eye should be one inch or so forward of the turning block.

Rig Sheets

- Turn on Electronics and trim sheet close to max trim — position of master sheet hook eye should be one inch or so forward of the turning block.
- Pull jib sheet to approximate close trim position to determine position of loop of finished sheet. Tie loop and clip to master sheet. Adjust with bowsie on jib boom so the jibboom in the maximum sheet in piston is around 40mm from the mast
- Pull main sheet to approximate close trim position to determine position of loop of finished sheet. Tie loop and clip to master sheet. Adjust with bowsie on main boom. Max trimmed in position should be so the outboard end of the boom points at the aft corner of the cockpit

Battery Installation - *For LiFe Battery*

- Connect 150mm extension lead
- Use supplied tabs of velcro, with hook side affixed to the keel trunk with double sided tape, loop side taped to the battery

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