

REVISION HISTORY

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v1.1	28/07/2020	Updated dock tune

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1. INTRODUCTION

This manual explains in detail with the aid of pictures how to correctly prepare and setup the rig on the 69F. You are invited to read it carefully and familiarise yourself with the boat before sailing.

2. EQUIPMENT

MAST TOP AND BOTTOM SECTIONS



SPREADERS



BOOM



VANG POLE



“ANACONDA” LOOPS



FORESTAY TENSIONER



3. SETUP PROCEDURE

- Prepare 4x stands spaced 4m apart
- Place split mast on stands
- Rotate top and bottom mast sections until the loop going through the bolt holes is clear and not twisted
- Join top and bottom sections and fit bolts through. Do not apply excessive torque when tightening the bolts.



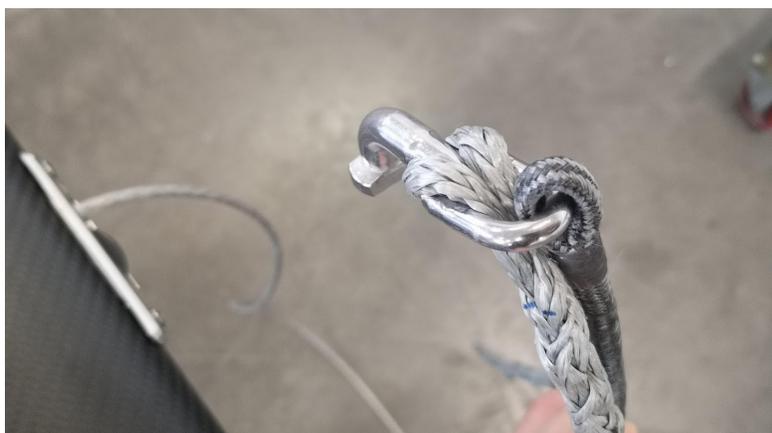
- Fit spreaders on boomerang and tighten bolts. The bolt head shall be on the topside of the spreader. Make sure the spreaders' soft loops are properly tightened over the shrouds.
- Verify that the upper part of the V1 (between the top fitting and the spreaders) is equally spaced and brings the spreaders at the proper height



- Attach shrouds to mast in their respective positions. Starboard side and port side shrouds are marked with blue and red duct tape on the top fittings, respectively



- Before attaching the forestay, cow-hitch the spliced end of the jib halyard to the forestay top fitting. The jib halyard running outside of the mast is 2:1

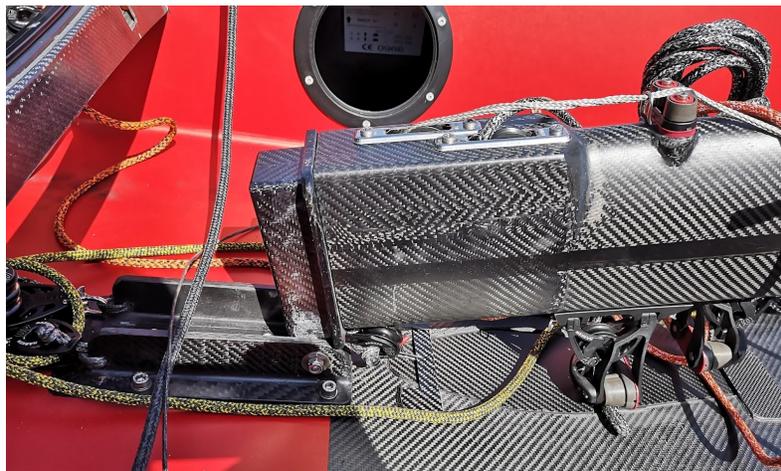


- Attach forestay making sure to pass it through the deflector ring. The jib halyard must

also pass inside the deflector ring.



- Bring all halyards to mast foot
- Lift mast and insert mast base over mast foot. Be careful that the 40mm pivoting cleats do not touch the cockpit floor



- Check the spreaders are not bent up or down by the V1s and lie in their natural position
- Lash Anaconda loop of V1 in the fwd Ropeye shroud attachment, Make 3 complete loops and cow-hitch the splice past the ball



- Attach the forestay tensioner line to the jib halyard's soft loop and hoist it. When the splice on the jib halyard comes out of the mast foot, attach the tylaska belonging to the jib halyard purchase running underneath the deck cover to it.



- Lift the mast up pivoting about the foot with one person pulling from the forestay tensioner line



- Pass the tensioner's soft loop around the bowsprit and pull the bowsprit out for safety. Make sure the purchase is completely eased off before doing so.



- Pull the halyard purchase almost completely and make a safety knot aft of the cleat.



- Make a safety knot on the halyard purchase line.



- For the tuning of the mast to be carried out at this stage, refer to Section 4 of this manual.
- After the mast tuning is complete, bolt the vang pole to the vang gooseneck



- Bolt the boom fork to the boom gooseneck
- Bolt the vang pole to the car on the boom track

4. MAST TUNING

After the mast has been put up and the tensioner attached to the bowsprit, the following procedure must be followed to achieve the proper mast tuning.

1. Pull the tensioner until the distance between the top of the forestay ring and the bottom of the Ropeye ring coincides with the white mark on the forestay lashing being on the inner side of the deck ring.



This measurement should be backed up by measuring the distance between the fully hoisted gennaker halyard (with the tape measure 0 attached at the 1 loop soft shackle) and the top edge of the bowsprit bearing. This distance should be 10480mm.



2. Check the mast is symmetrical port-starboard by measuring the distance between the hoisted halyard and the boat sides in a position of your choice (e.g. V1 shroud attachment point on deck).



3. Once ensured that the mast is symmetrical, check the tension reading on the V1 shrouds is between the values listed in the table below for step 1. As a general guideline, the

gauge (reference taken with the Spinlock gauge) should be placed just above the shrouds splice end.



4. Release the tension on the forestay tensioner until it is possible to make three loops with the D2 Anacondas around the aftmost Ropeye.
5. Repeat step 1 and check the mast does not bend sideways by visual inspection looking up from the boom gooseneck.



6. Once ensured that the mast is symmetrical, check the tension readings on the V1 and D2 shrouds are between the values listed in the table below for step 2.

7. Release the tension on the forestay tensioner until it is possible to make three loops with the D3 Anacondas.
8. Repeat step 1. The tension readings should be between the values listed in the table below for step 3.
9. Finally, before lashing the forestay, pull an extra 20mm on the forestay tensioner to compensate for the stretch in the lashing.
10. Lash the forestay to the forestay Ropeye loop with a portughese knot close to the top ring. Measure the tension on the forestay to be between the values listed in the table below for step 3.

MAST SETUP PROCEDURE	V1		D2		D1		Forestay	
	Tension (kg)		Tension (kg)		Tension (kg)		Tens (kg)	
	Target	Tolerance	Target	Tolerance	Target	Tolerance	Target	Tolerance
Step 1 (V1 only)	500	10%	-	-	-	-	-	-
Step 2 (V1 +D2)	550	10%	145	10%	-	-	-	-
Step 3 (V1 + D2 +D1)	600	10%	170	10%	170	10%	250	10%

NOTES

- The first time you tune the mast, it is suggested to recheck the tensions after a couple of hours since some stretch in the anaconda loops and shrouds may occur.
- After the first sailing sessions, the standing rigging may stretch. You may need to adjust the anaconda loops accordingly. Generally the V1 are the most affected by the stretching.
- It is suggested to note both tensions of the shrouds and length of the Anacondas in order to speed up the future rigging