

thank you for choosing the 507 Footy design to build, sail and enjoy!

from initial hull lines developed by Angus Richardson in the UK, the 507 hull was reworked and gained an innovative deck design to create a light, strong, functional monocoque.

the rig reflects the trends of aerodynamic efficiency and gives a well natured boat as a result, the 507!

as a design the 507, so named for its inception on the 5th month of the year 2007 has been a fun project and even more fun to sail!

having created the design package, made tooling and even vacuum formed the boats myself, I am proud to say she is my best boat design so far, have a look at others at www.gospectre.com!

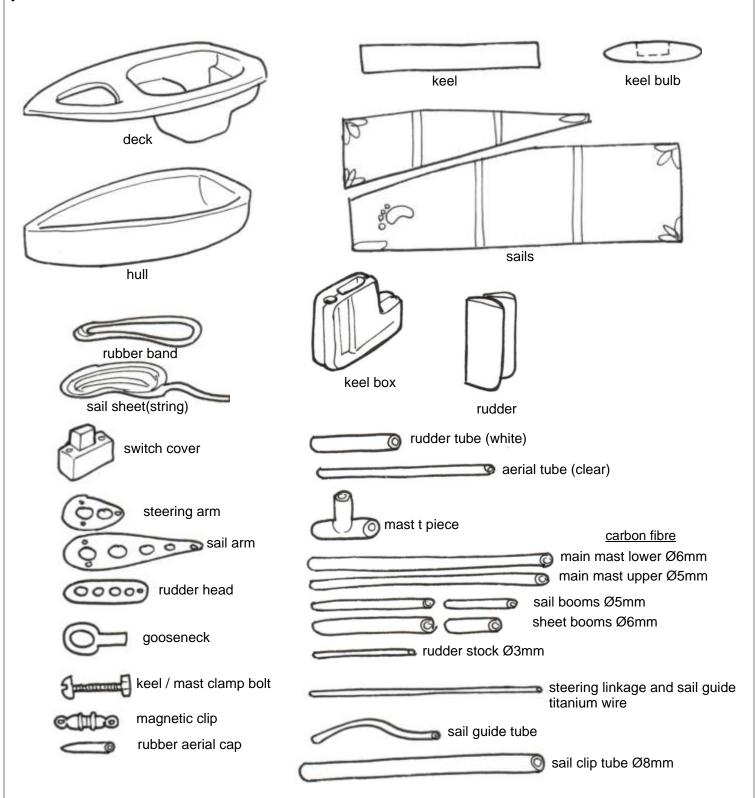
so whether you are racing or having fun mucking about you can register your boat with your countrys footy class association and of course send me photos of your boat sailing!

if you need any building help or have any thoughts please email me on andrew@gospectre.com!!

go sailing!

**Andrew Cook** 

### <u>parts</u>



#### tools



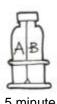




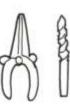
sand paper 60 grit



CA Glue



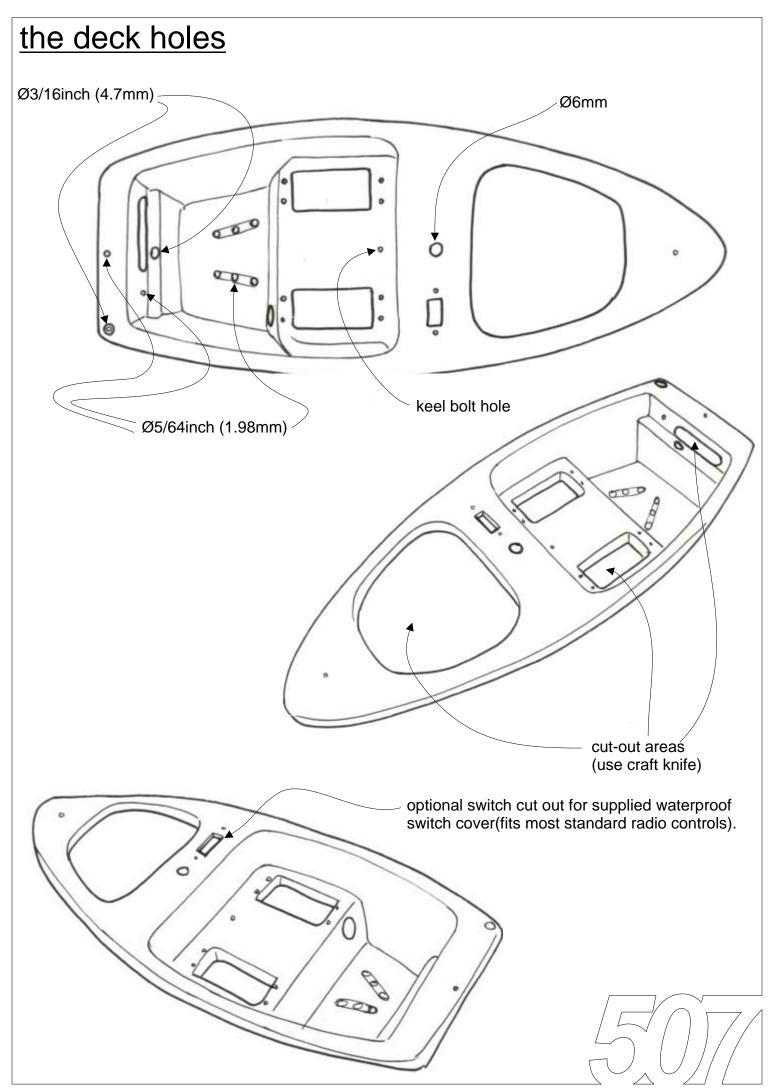
5 minute epoxy

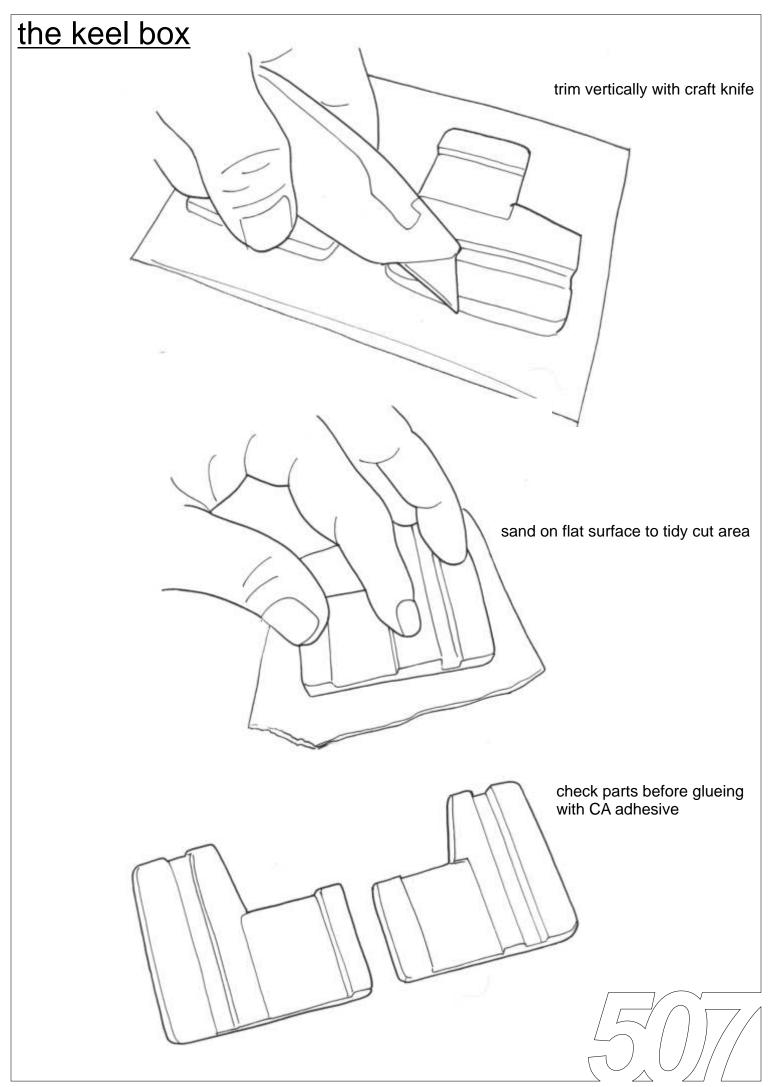


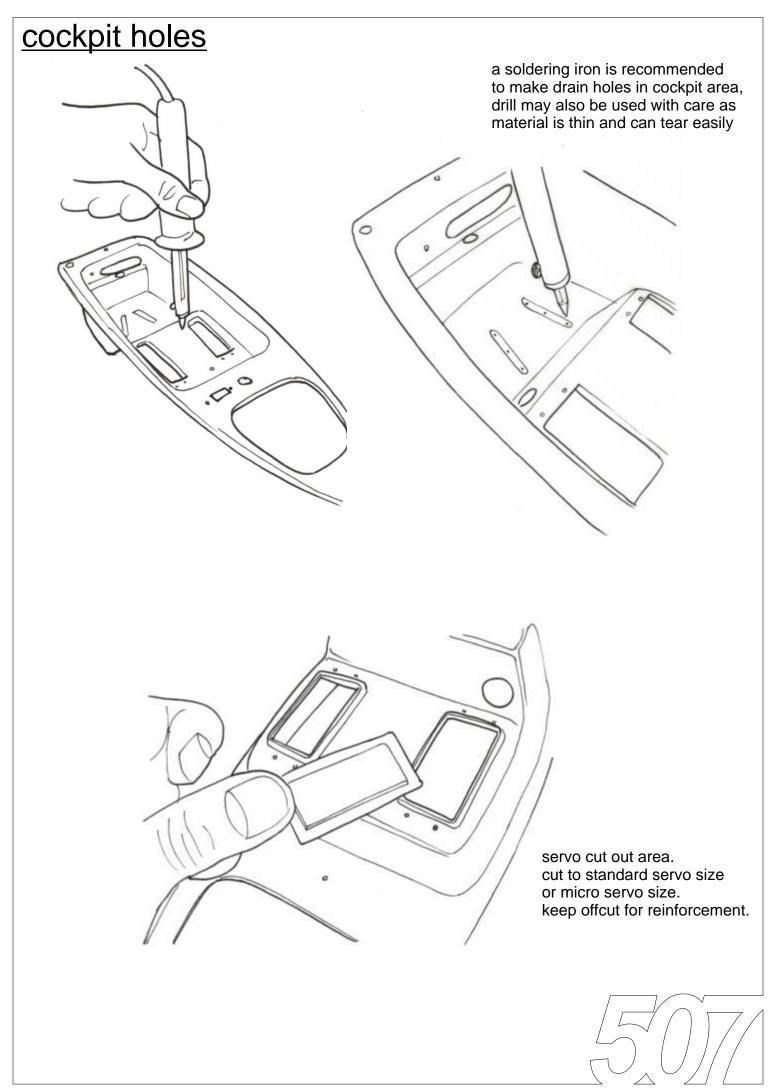
pliers

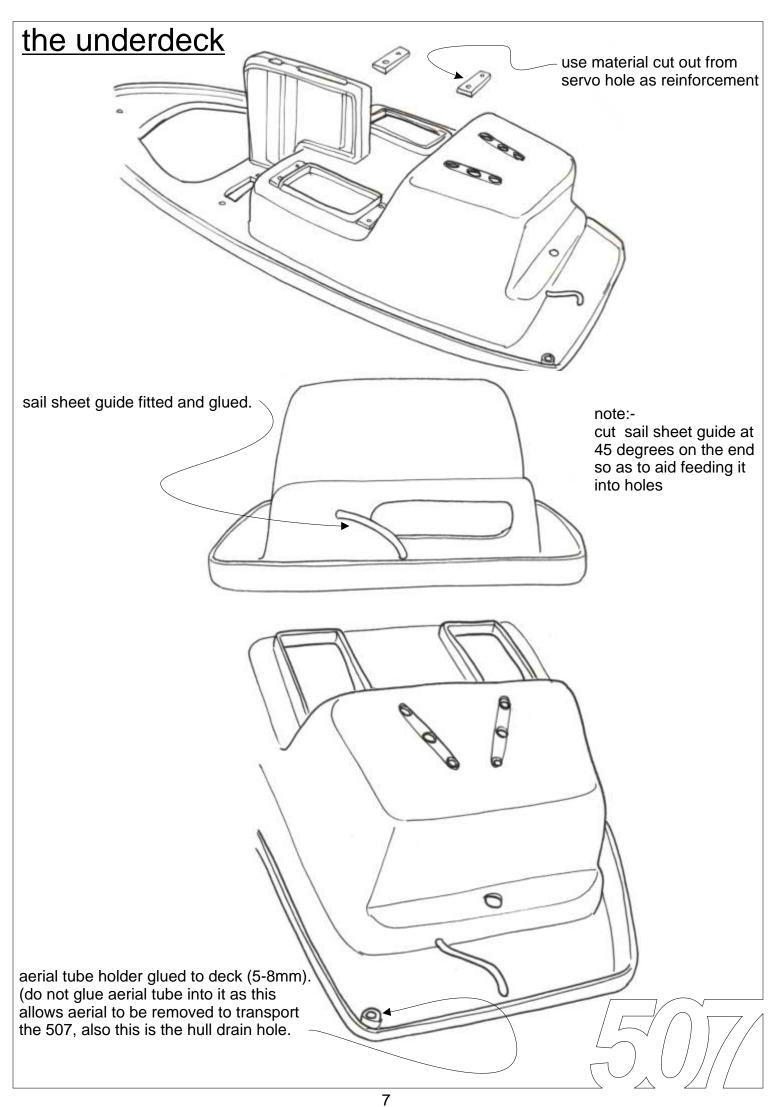
drill bits 5/64 inch (1.98mm) 3/16 inch (4.7mm) 6mm

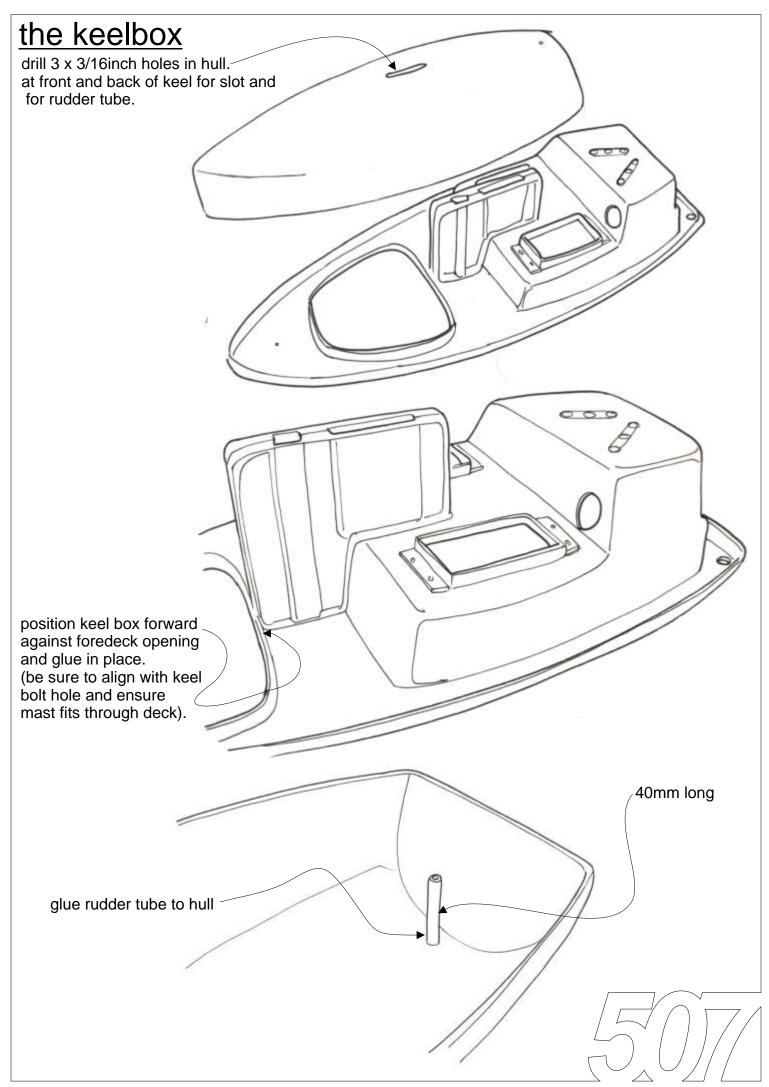


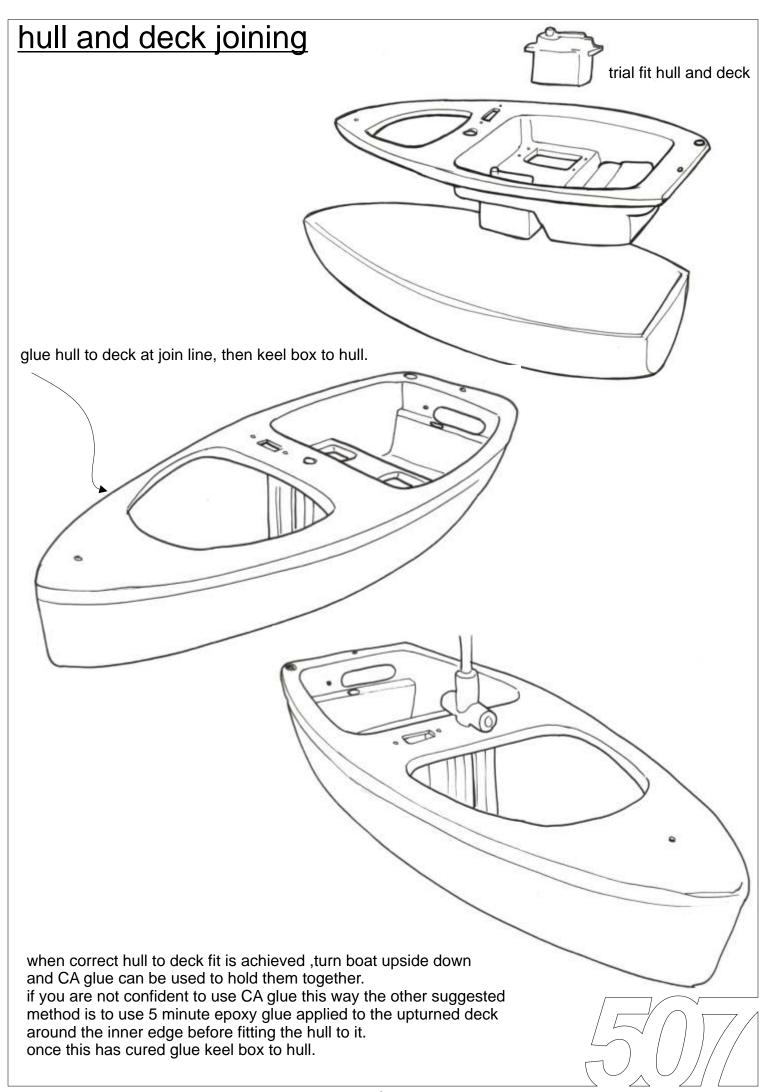




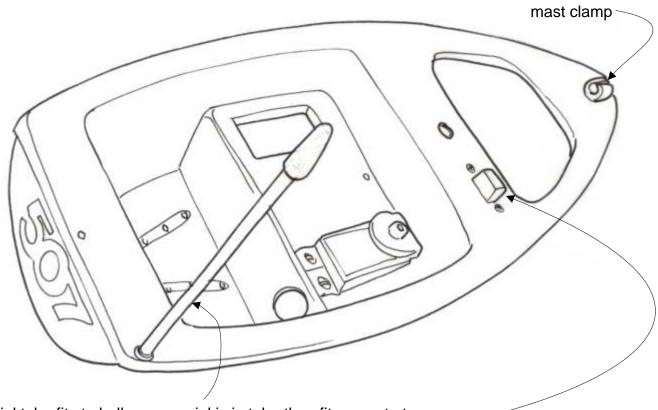




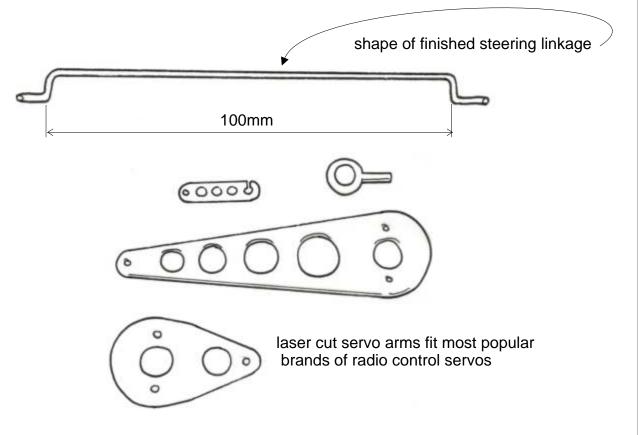




## deck fittings

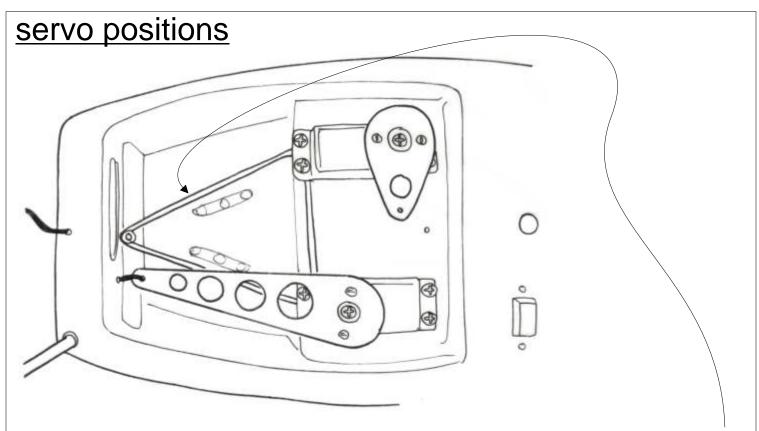


aerial tube fits to hull, once aerial is in tube then fit cap onto top. fit on/off switch boot to switch and fit to deck sit servos in cut out and screw in, see servo fitting page for orientation.

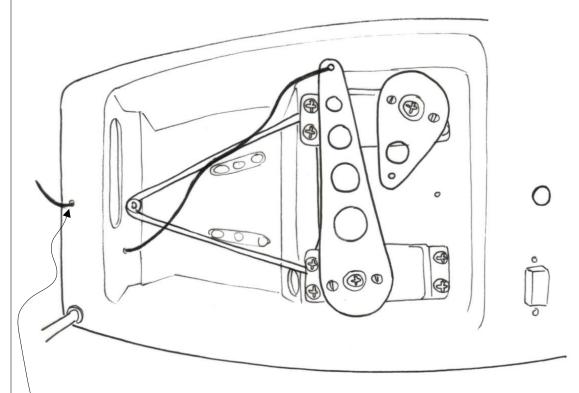


secure servo arms to the servo arms supplied with servo motors use self tapping screws.



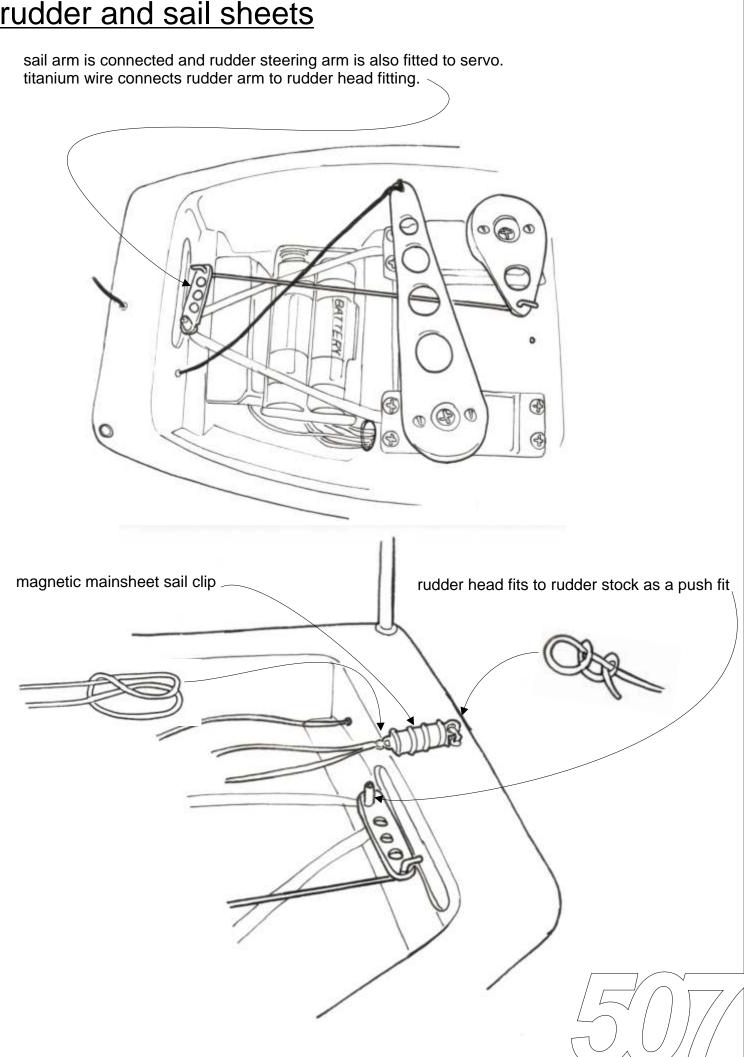


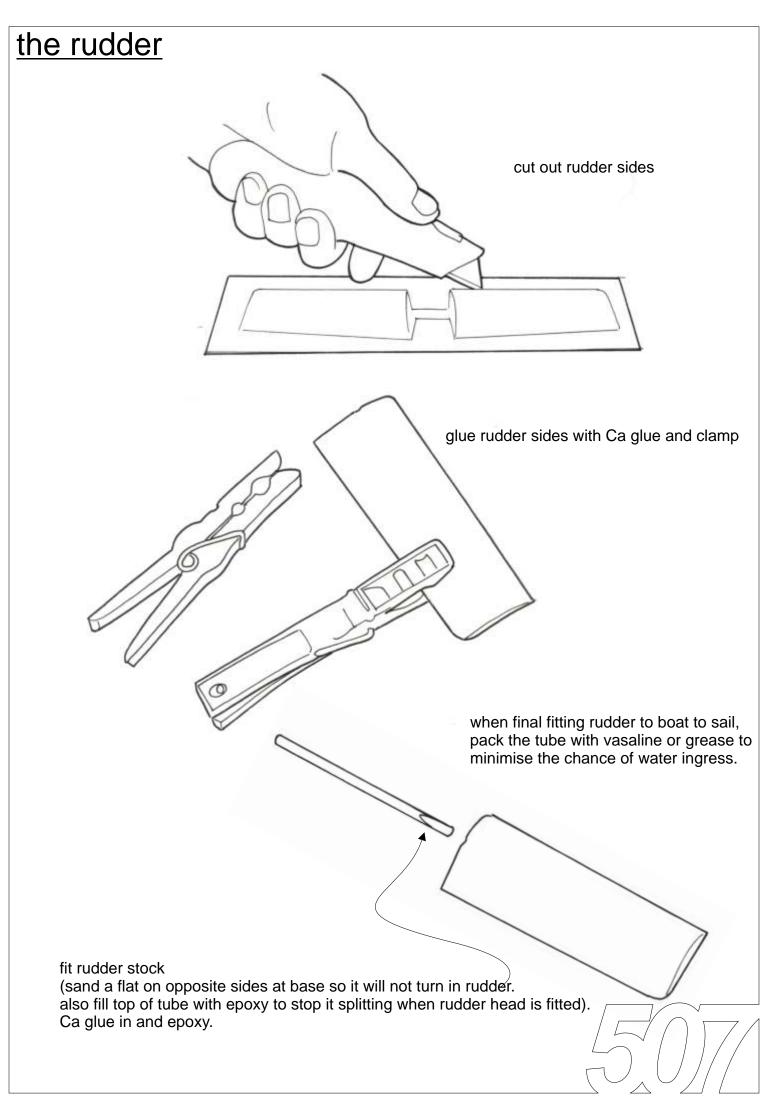
rubber band connects under servo screws and loops over top of rudder tube to hold batteries in place.



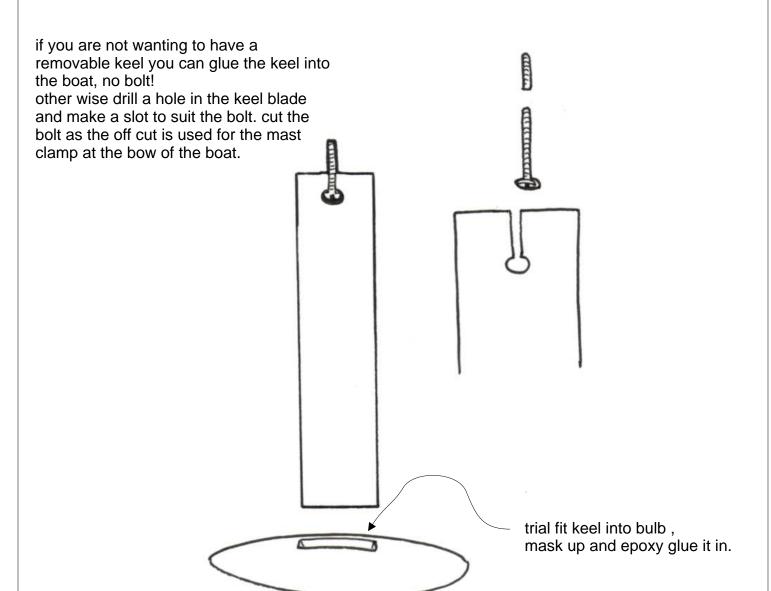
to feed the sail control line through the hull tube guide the best method is to coat 3cm of the string in super glue allow it to dry to make it stiff before threading it into tube



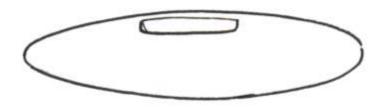




### keel and bulb



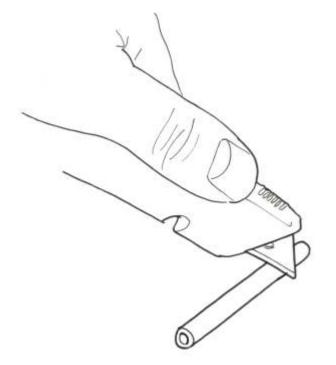
file bulb and sand smooth with steel wool



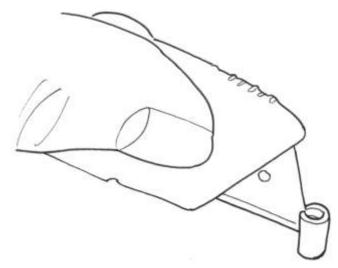


### sail clips and mast clamp

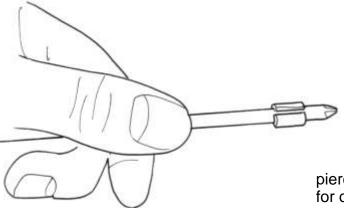
cut plastic tube to 10mm lengths x10



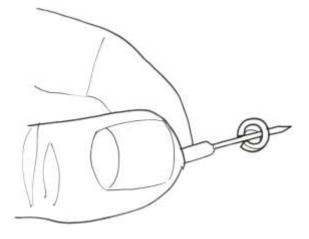
cut the lengths vertically

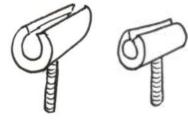


slide over a phillips head screwdriver to open up to size



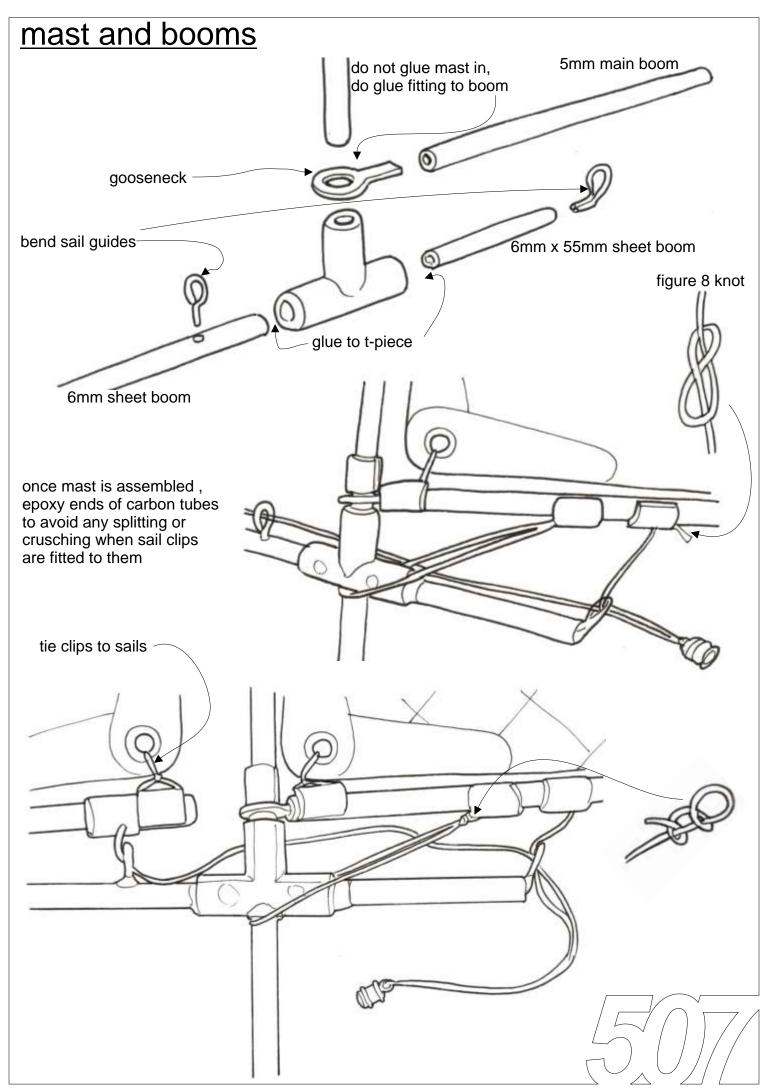
pierce a hole to tie through. for one use half of the keel bolt to make mast clamp.

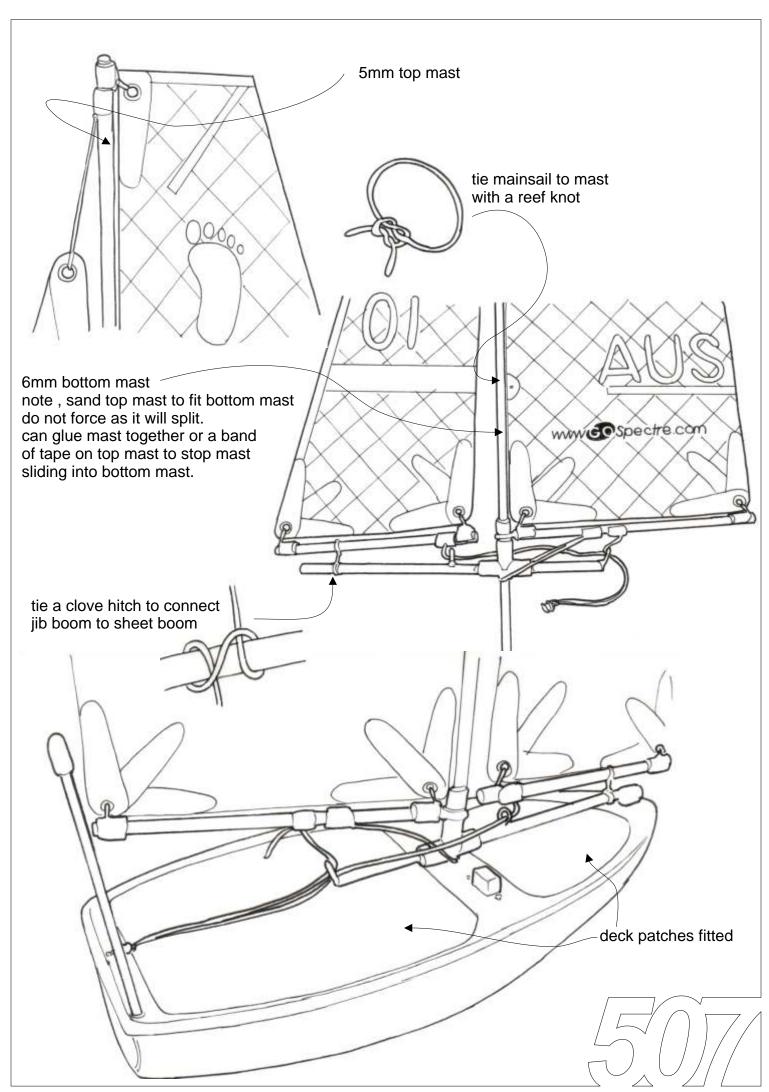




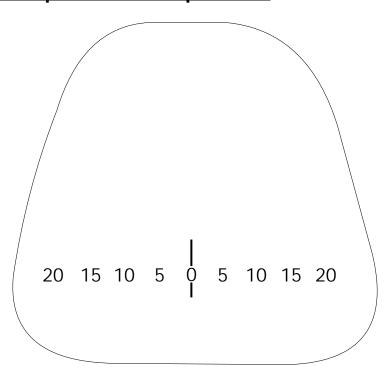
mast clamp to fit to bow.







# deck patch templates



sail tuning.

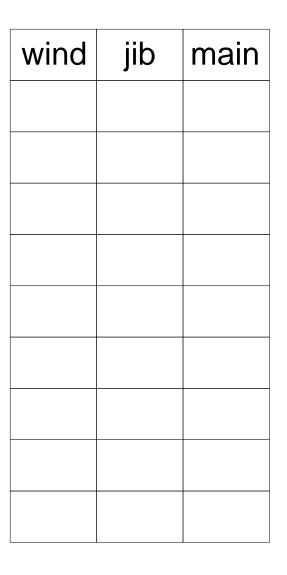
with a large mainsail the 507 requires more jib than may sometimes seem optimal.

with the mainsail at 10 degrees the jib may be at 5-7 degrees as a starting point for tuning.

boom vang loose enough so as to allow boom to move freely.

this set up allows the jib to goose-wing down wind readily.

fill in your own settings sheet below in various winds, write down the angles sails are on and details!



20 15 10 5 0 5 10 15 20



# Main sail numbers!

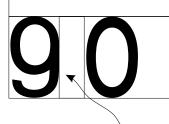
the easiest way to apply numbers to your sails is place this template behind the sails, use a piece of tape on the sail as a base line and trace onto the sail with a

permanent marker!!

number spacing!

06

30mm



15mm



