the Balmain SUG



the Balmain 5119



History of the bugs and these photos have been provided by Stephen Crewes of Sydney Australia, who has taken the time to document the story of model yachting in Australia for future generations.

To find out more about the "real" bugs have a look at his marvelous books, our favorite is 'Sydney"s Model Racing Skiffs".

You can contact him via and email link from our site (www.gospectre.com), or write to Stephen at, PO Box 62 Hurlstone Park, N.S.W 2193, Australia.

Apprenticed to a boat builder, 14 year old Peter Ferrira, Winner of seven trophies and 1948 point score of Drummoyne (New South Wales) District 12"er Model Sailing Club has "Vera Too" ready for sailing Sunday mornings race in light sou-wester. Father is Peter's rower, boat is named after his mother.

History

Made in Australia



The Balmain bug kit is a modern adaptation of an Australian Classic, made possible with the help of Stephen Crewes, Tom Wilson and designed by Andrew Cook. Kit and instructions copyright ARC Design.



Australia

Somewhere around the year 1860 the world famous 18foot skiff came into existence, these dinghies had as the name implies a hull length of 18 foot not including the bow sprit and very few other limitations, if you could keep the boat up right, as much sail as you could carry was fastest!!

The boats developed highly and even to this day the 18footer still is a grand prix class known for its wild flights of speed and overpowered sail plan.

The early 18 footers had colored patches on their mainsails to identify them to the masses of people who would gather around Sydney Harbor to watch, the modern skiffs have brighter color schemes, still with the addition of sponsorship and bright colored paints.

Early on the Balmain Bug model skiff came into existence and followed a similar rating rule as the real boats, limited hull length but nothing else, they also used sail patches.

Boats were at first sailed on ponds and turned around at each end to complete a course, then later in the open sea of Sydney Harbor, rowing boats were used to chase the little monsters and even put on more sails downwind.

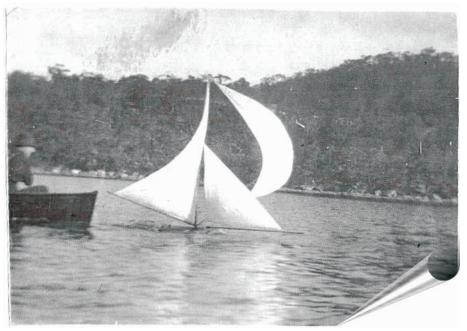
Bugs were raced in several class sizes, the smallest that raced in open water was the 12"er, and it also made a great pond racer, the largest was a 2 Footer Bug, that really took some rowing to keep up with!

The Balmain Bug was raced up to around 1954 in Sydney, lets re-ignite it!!!!!!!



History

the Balmain 500



Bug on the run! This Bug is seen with the 'big" rig and features a spinnaker sail as well as the normal mainsail and jib. Early Rigs had a 'Gaf' rig while later boats mirrored real boats and the development of a single light, long mast. Notice the row boat chasing, no remote control back then!

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Australia

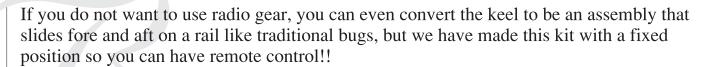
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Welcome to the Balain Bug experience!!!!!!

The Bug kit has been designed so as to be a modern version of the "Traditional Bug" now you can sail like they did over 100 years ago!

Traditional bugs mostly had varnished wooden hulls, (there were even paper mache bugs made!) your bug is a modern yacht and uses modern materials with remote control equipment so that You can sail her and change direction!

Choose a wood stain and varnish to finish your bug, add a sail logo and make her your own modern classic.



Just add a standard 2 channel remote control to the package and off you go to build her, the keel bulb has been made slightly heavier than you need so if you are not using remote gear she will float well. It is worth noting that bugs float with the waterline around 15-20mm below the deck, looks weird, but thats how they hold so much sail!

Take care, read the instructions and build a classic, then sail ${\bf Y}$ our ${\bf B}$

the Balmain 5uq





The bug is so overpowered and radical, do not expect to sail her like a normal yacht, it will take a lot of practice, after all they were developed over a long period of time and highly refined!. But ultimately rewarding! On light days until she has water going past the fins she will be difficult to turn, and when it gets too windy she will be difficult also, just be aware.

Sailing

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The bow sprit will frequently dive beneath the waves!



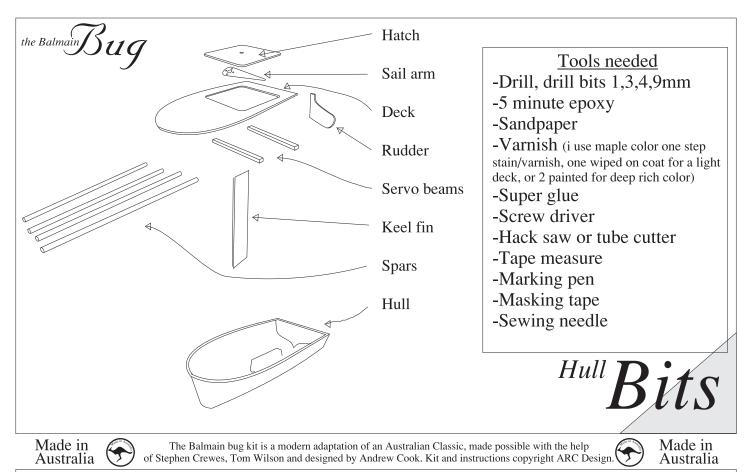
Try and keep up if your rowing, they are fast!!

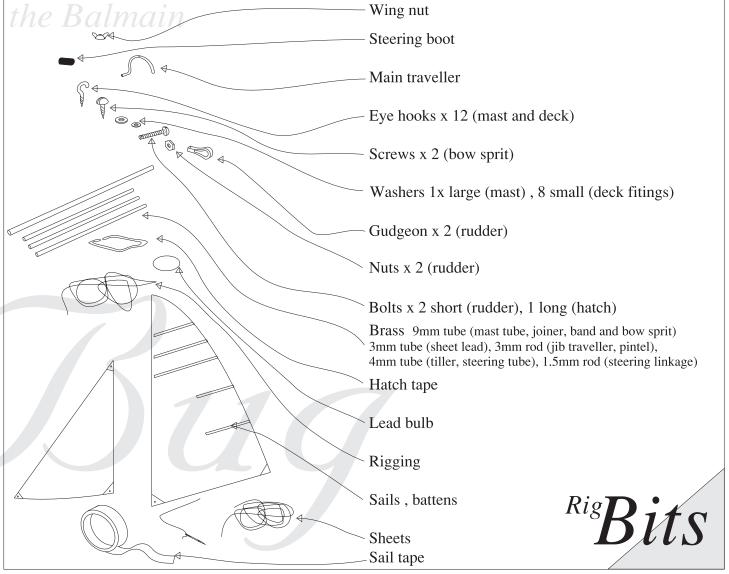


You can always drill holes in the bulb to lighten it!

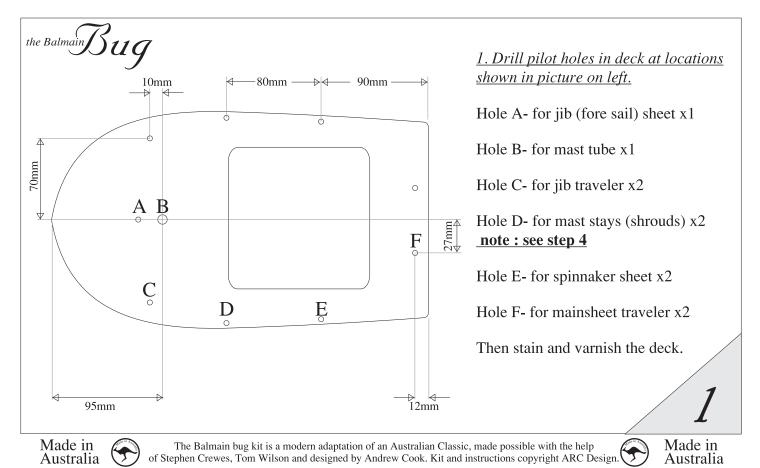


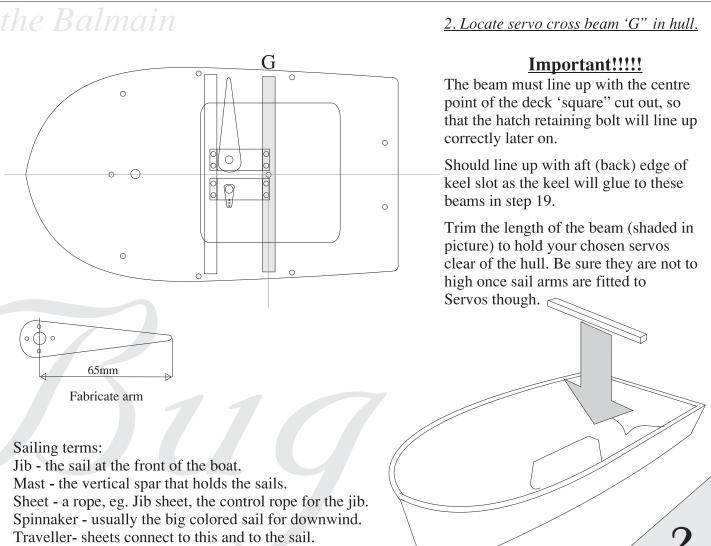
An Australian Classic by www.gospectre.com





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Stays - hold up the mast, side ones are called shrouds.

the Balmain Bug

3. Locate servo cross beam 'H" in hull.

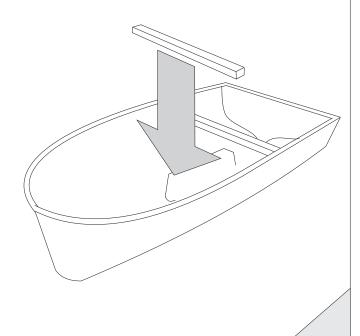
Trim the length of the beam to hold your chosen servos clear of the hull and level height with the beam 'G".

Space between the two beams should be around 40mm depending on the brand of servo used.

You can drill servo mount holes in the beams at this point and use them to locate the beams.

Trial fit servos and deck in position and use 5 minute epoxy to firmly locate the beams in place.

If necessary temporarily hold beams in place using CA glue or masking tape.



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he Balmain

4. Fitting the deck

With the deck in position on the hull, drill through the "D and E" holes so the 4 eye hooks can hold the deck to The hull.

Apply 5 minute epoxy around the deck flange, place the deck in position and screw in the 4 eye hooks with washers.

Note:- if you want to make the rig and sails readily removable for transporting the bug, then cut the eye hooks to make them into 'cup hooks'.

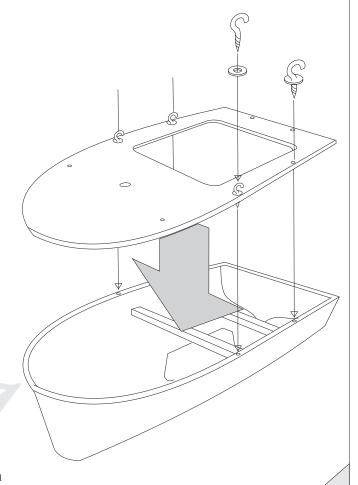
See below.



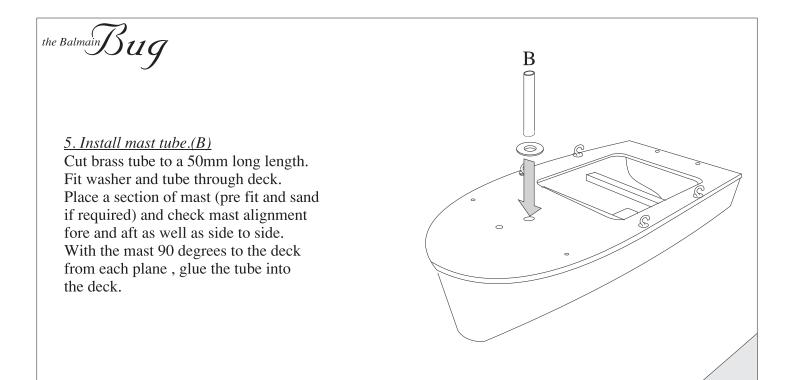
Sailing terms:

Hull - the main structure of a yacht, sits in the water. In this case the white fibreglass molding!

Deck - the top section on the hull, where you walk around. The wooden part of this kit you stain and varnish!



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6. Fit the deck hardware

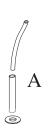
A- jib sheet lead.

Black plastic tube goes through the center of the 15mm long brass tube to reduce friction.

C - cut 180mm long, then bend the brass rod to match the holes in the deck. The jib traveler should sit 15mm above and parallel to the deck.

F - fit the mainsheet traveler, it also needs black plastic tube in it for the sheet routing.

Once position and fit is finailised, epoxy all fittings in.













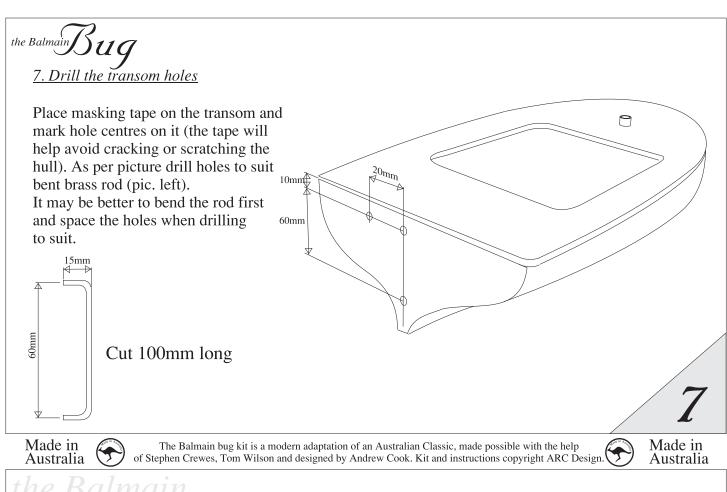
Sailing terms:

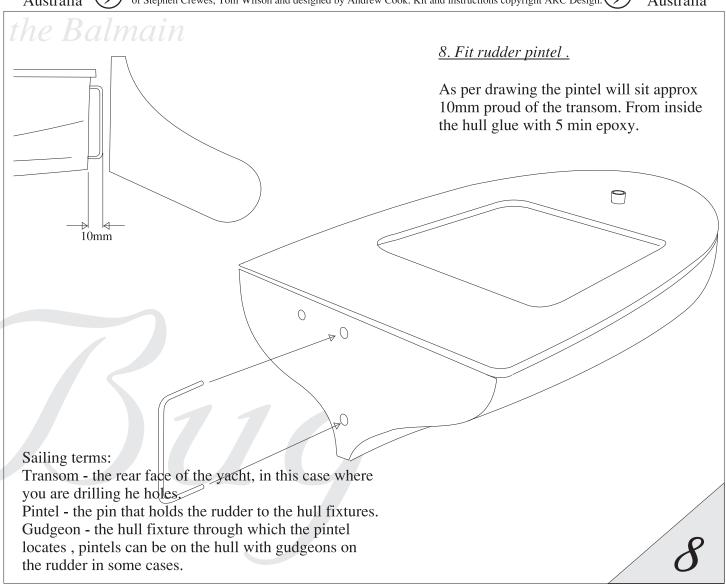
Main sail - normally the big sail, the one at the back.

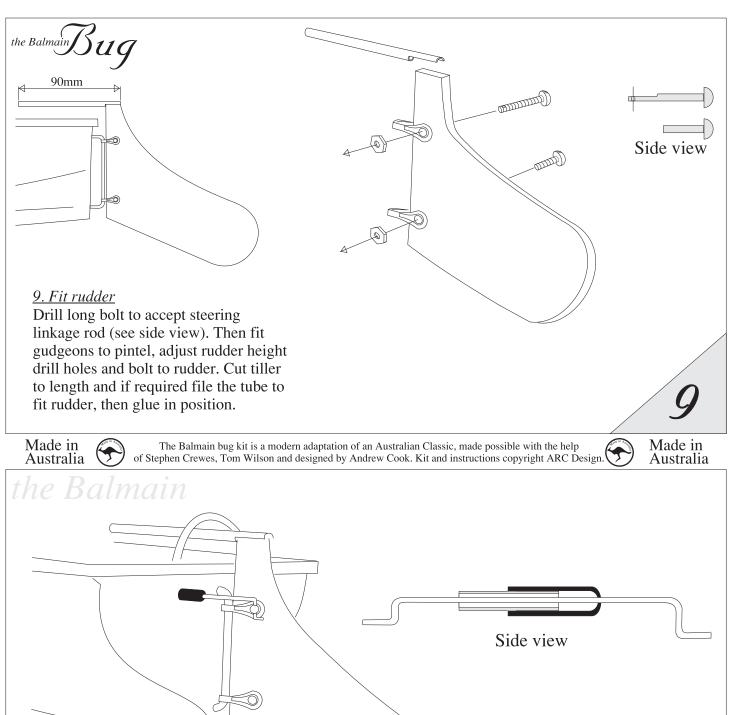
Aft - back, rear ward end of the yacht, the stern.

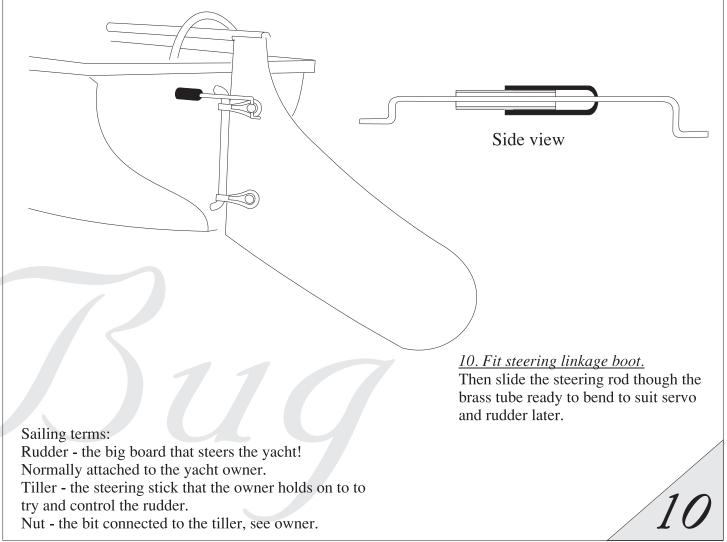
Fore - as in forward end, the bow.

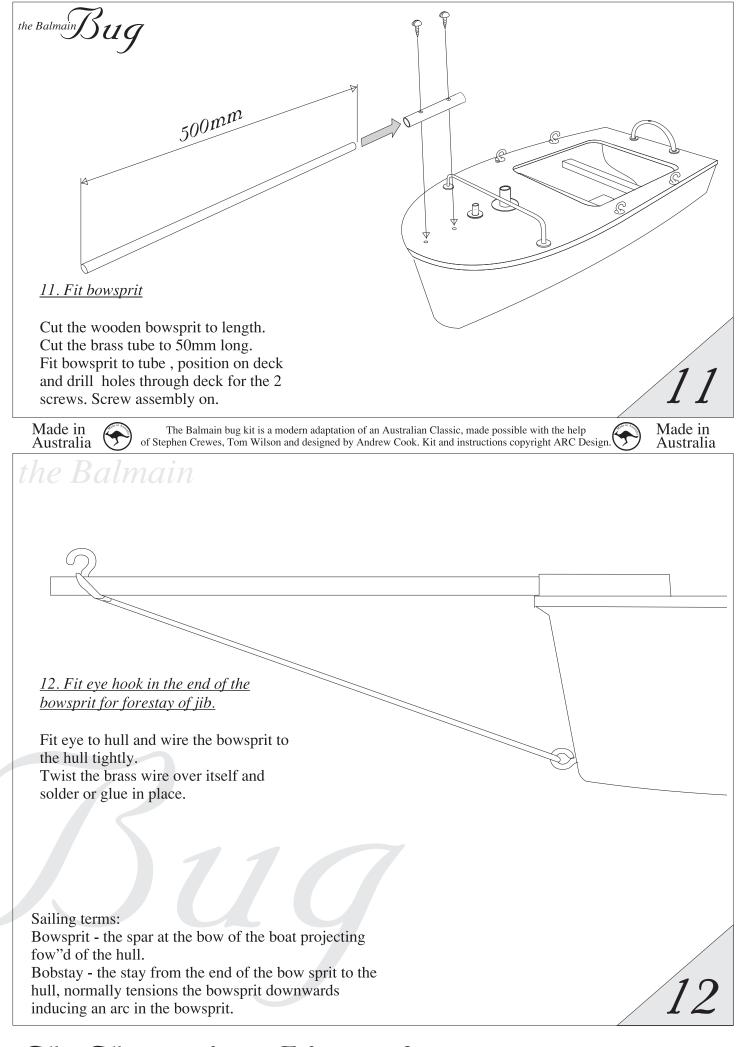


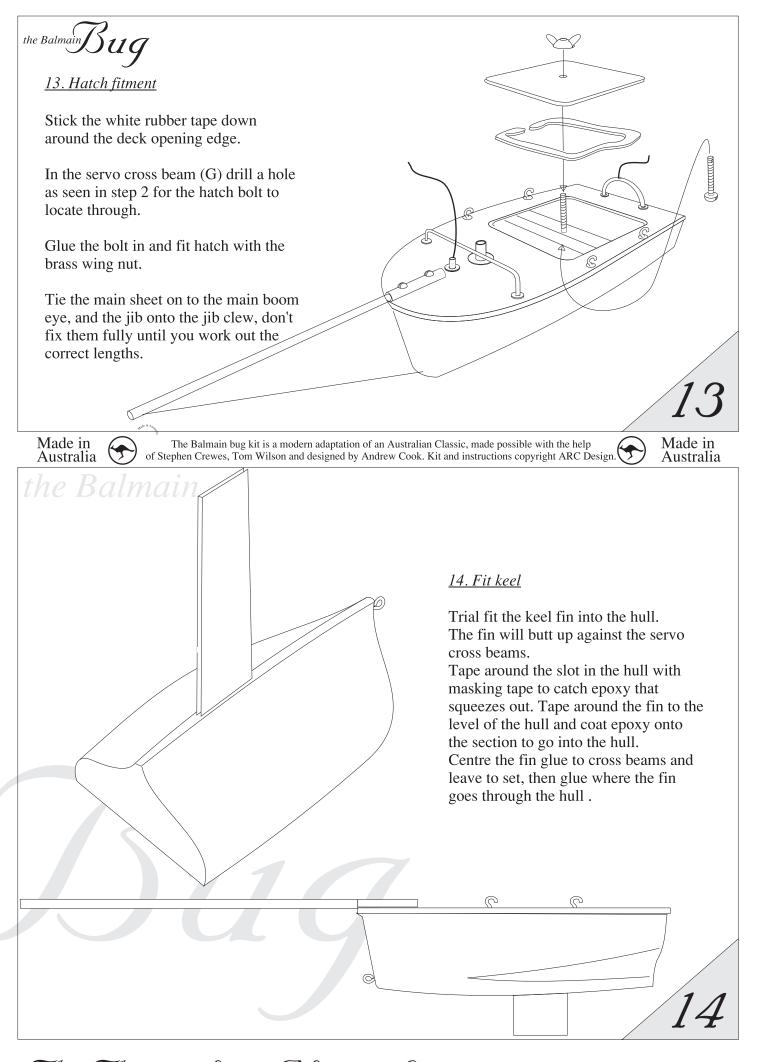




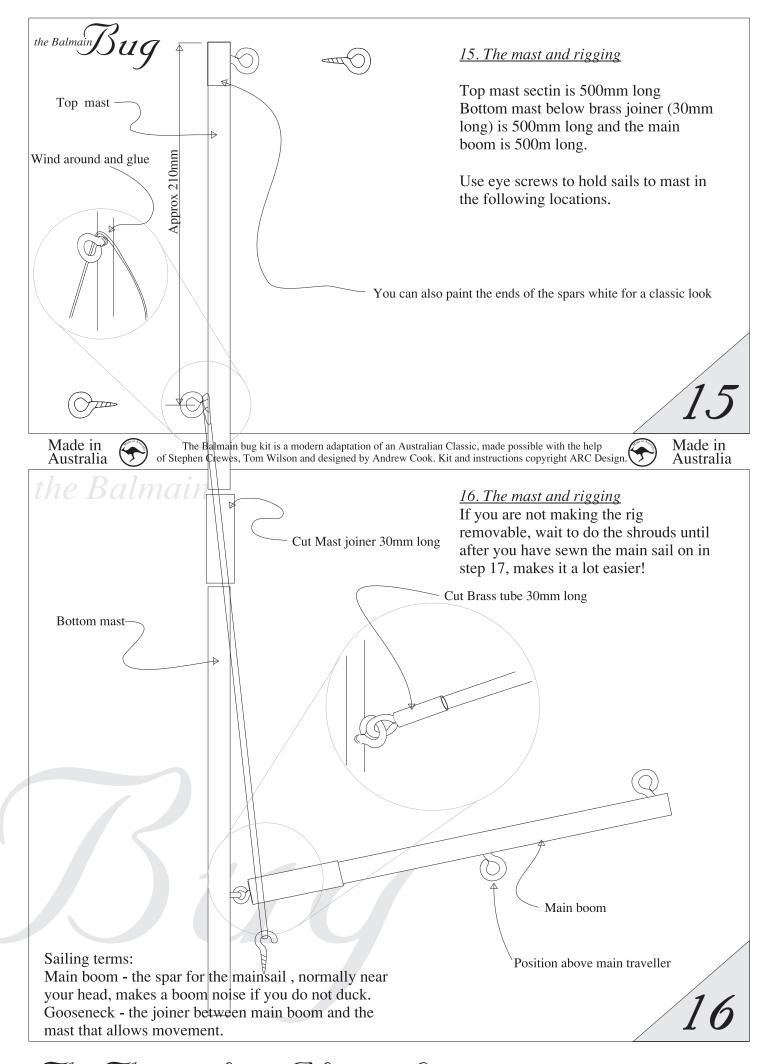




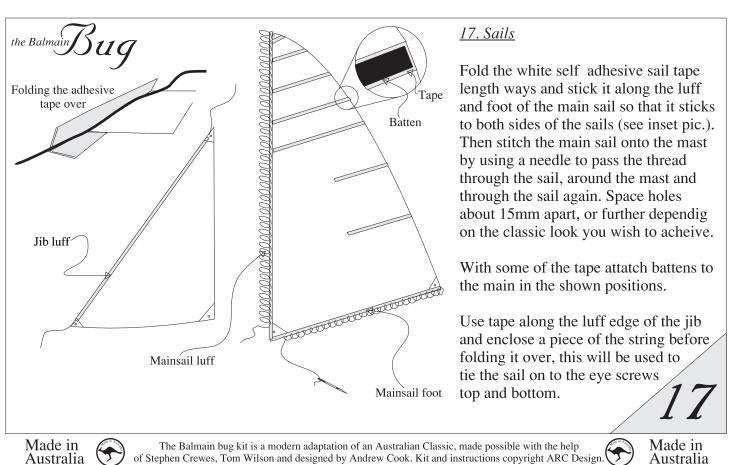


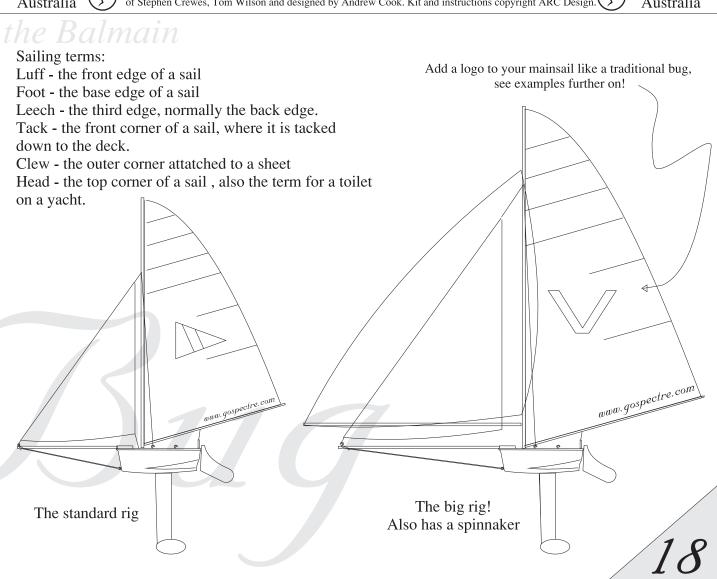


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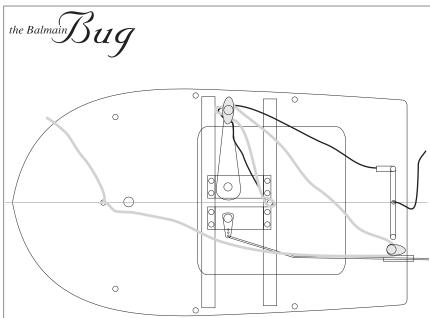


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19. Sheet routing

Both the main and jib sheets tie to the hatch bolt (see step 20) then go to the sail arm end.

From there the mainsheet goes into the mainsheet traveller beneath the deck and exits at the top of the curve above deck.

The jib sheet turns around the other end of the main traveller under the deck and then exits through the fore deck fitting.

To make the sails ease readily it is reccomened you use minature blocks (pulleys) as indicated on the drawing.

A Pekabe brand double block on the sail arm and a single becket block connected to the steering linkage boot brass tube work best.

19

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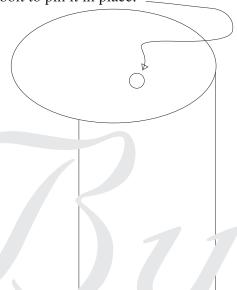


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he Balmain

20. Fit bulb

Epoxy bulb onto the fin and leave to cure. If you are in any doubt to your glueing skills you can always drill a hole through the bulb and fin and use a bolt to pin it in place.



Sailing terms;

Keel - the big board that hangs down from the hull. Provides stability to stop the yacht drifting sideways when sailing.

Bulb - the weight in the end of the keel fin.

Sometimes yachts have weighted keels with no bulb.

