

This booklet is meant purely as a guide. The fittings used and their placement are based on the way that I rig my own boat. The ideas and measurements recorded here, some of which are my own and some which I have borrowed from others, have all been tried and proven to work. So take from this guide what ever you feel is for you and remember that there are many ways to achieve the same result.

Please note: Some drawings show the 12.7mm mast and some are drawn with the 11.1mm mast. Also a couple of different vang/gooseneck arrangements are shown.

If you have any further questions please contact me.

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Deck Layout

Glue the bow bumper to the boat using "Selleys" kitchen and bathroom sealant. (White silicone.)

Standard 3mm eye bolt.

10.00

For waterproofing a small drop of thick superglue in the hole before the eye bolt is a good idea. A nut is not required.

163.0
188.0

⊖ No.1 and 2 rig

⊖ No.3 rig

282 to jib sheet guide.

Five turns of line on the drum is ample

Main drive line (Bottom)

Return line (On top)
Hat elastic

Glue mast step on with silicone.

Switch

10.0

Deck line

Jib sheet guides (supplied) 1.6mm S/S welding rod. Epoxy or superglue in after painting.

The switch is available at Dick Smith Electronics. the catalogue no. is P-7656. The weatherproof hood is H-1914. A 6mm or 1/4" hole is required.

Steering arm. Aft looking forward.

Crush push rod

The fishing clip is in its close hauled position, 340 mm of forward travel is ample.

480.0

Main Sheet

Jib Sheet

Boot Seal
(Refer to text pages)

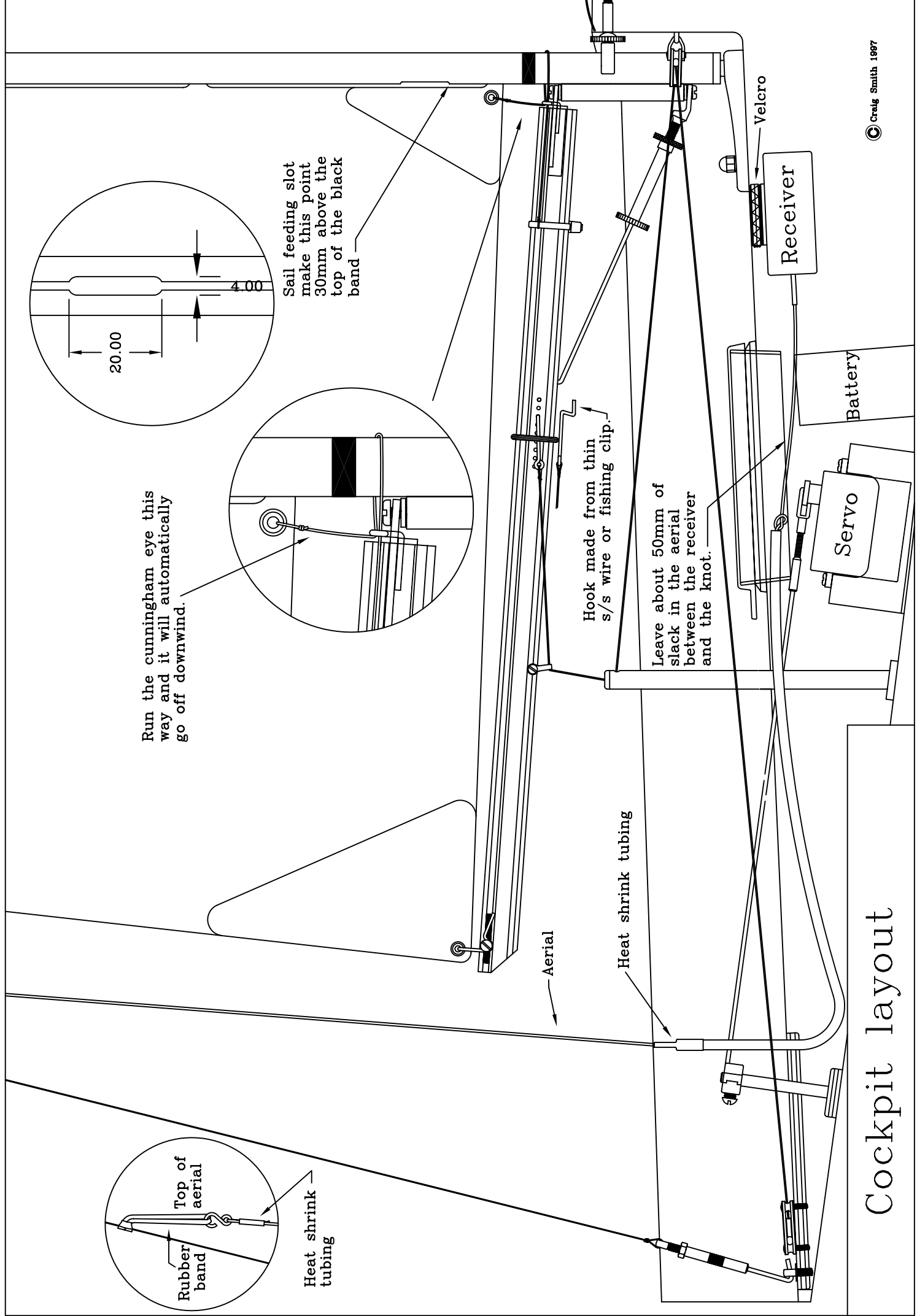
IMPORTANT

6.50

Back stay eye bolt

Offset to starboard 4mm

12.0 ⊖ 22.0



Run the cunningham eye this way and it will automatically go off downwind.

Sail feeding slot make this point 30mm above the top of the black band

Hook made from thin s/s wire or fishing clip.

Leave about 50mm of slack in the aerial between the receiver and the knot.

Top of aerial
Rubber band
Heat shrink tubing

Aerial
Heat shrink tubing

Receiver

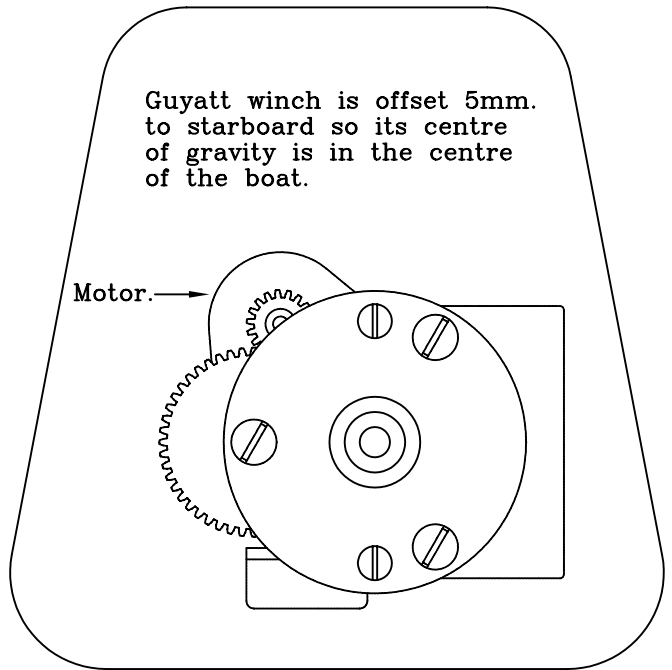
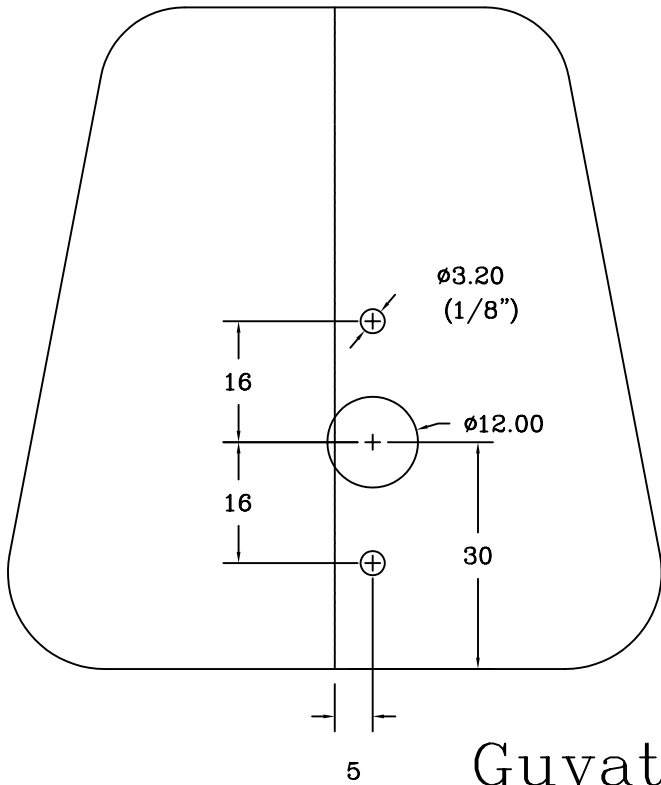
Servo

Battery

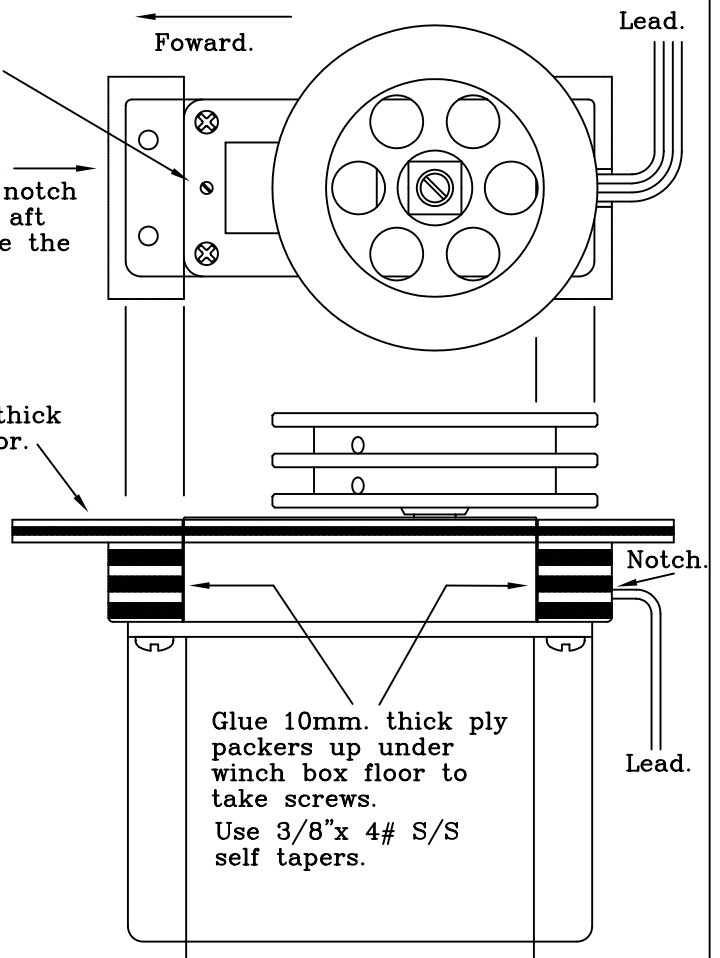
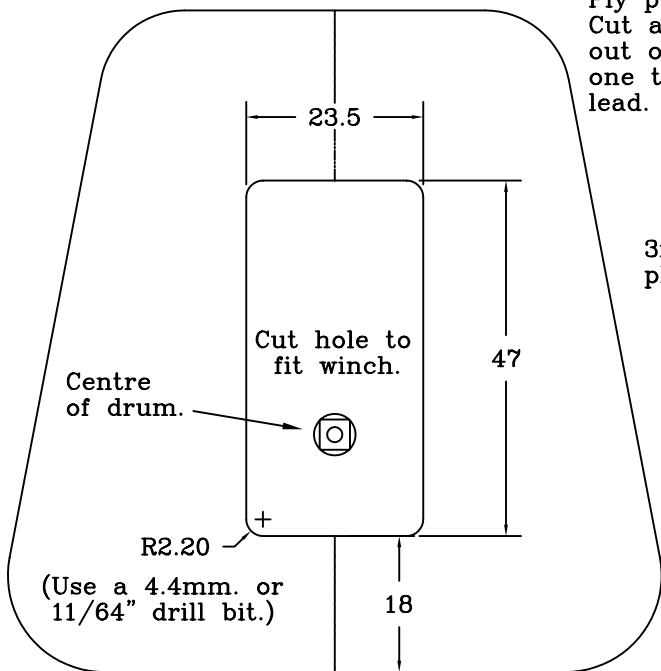
Velcro

Cockpit layout

Winch installation

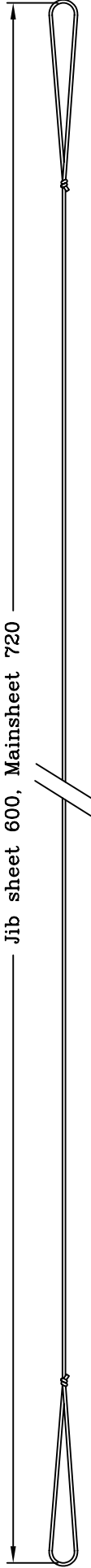


Guyatt winch.



Whirlwind winch.
(Atlas)

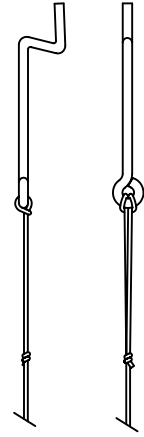
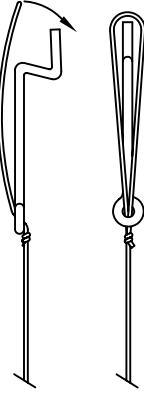
Jib sheet 600, Mainsheet 720



Make both the main and jib sheets 600mm long, this way a spare sheet will do for either.

Make the loop at the end long enough to go through the eye of the sheet adjustment hook and right over its end. When pulled tight this knot will be easier to undo when changing sheets.

It's also a good idea to keep the loops in both ends of the sheets the same length, this way if a sheet breaks either end can be threaded through the eye of the adjuster hook.

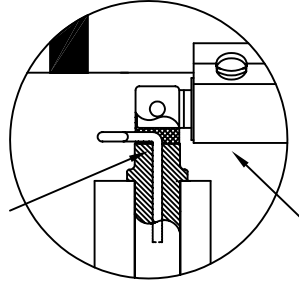
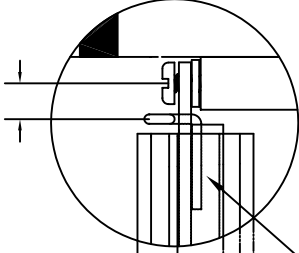


Knot pulled tight.

Rig no.	1	2	3	Description
J	120	120	120	Hole for vang
K	240	235	230	Mainsheet Shackle
L	157	147	145	Holes for sheet adjustment hook
M	365	355	325	Length from mast

Drill a hole up the centre of the shaft.

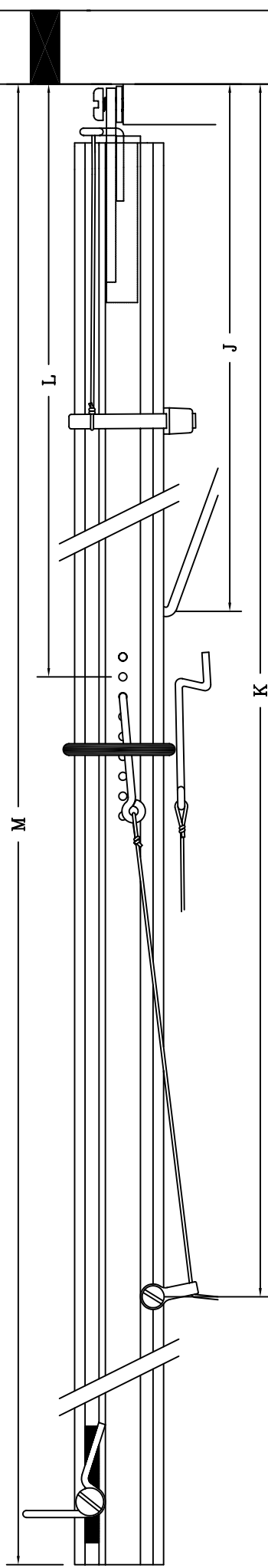
4-5mm.



View of the cunningham eye hook looking aft from mast.

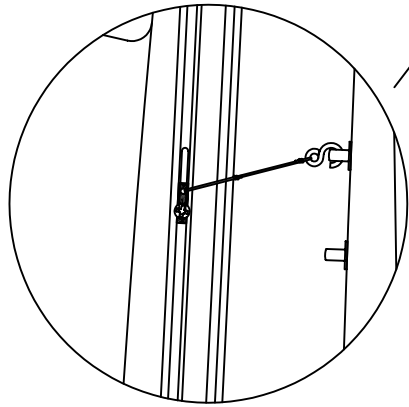
Ball race Gooseneck

Cut a slot in the plastic insert to take the hook.

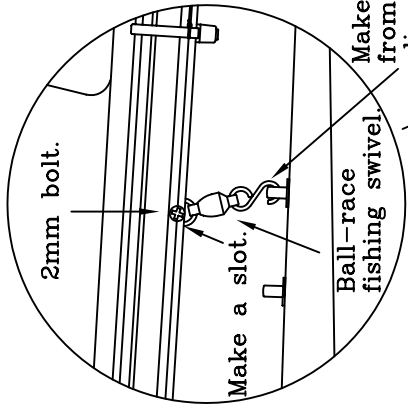


Main boom & sheet length

Alternate pivot adjustment for the no.1 rig. I use a fabricated plastic slide and cut a slot in the boom to allow for the fore and aft movement.



Pivot method no.2&3 Rigs.



Make a hook from a fishing clip, or use 1.25mm S/S wire.

I run the leech line around the back of the slide then along a groove filed in the under side to a 2:1 adjustment forward on the boom somewhere.

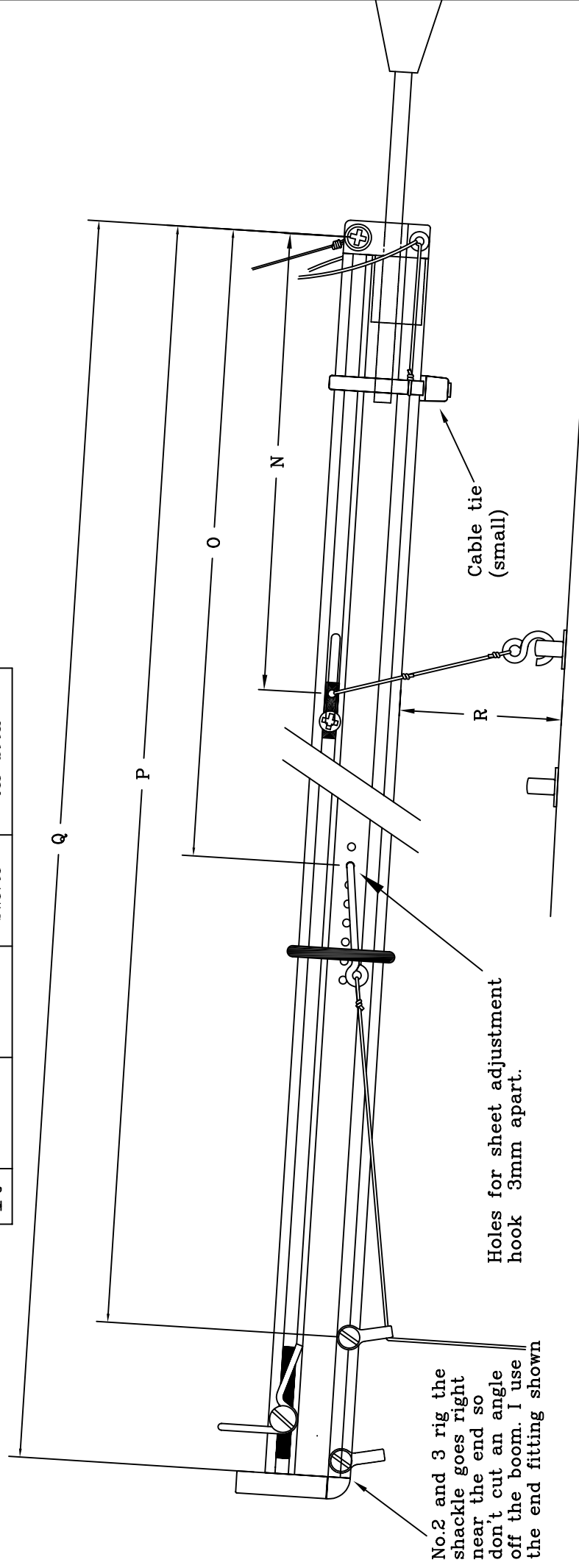


O ring or cable tie

Forestay length measured to here.

Jib boom layout

Rig no.	1	2	3	Description
N	82	58	30	Pivot point
O	300	290	245	Holes for sheet adjustment hook
P	368	352	302	Jib sheet shackle
Q	382	355	305	End of boom from tack
R	28			Boom height off deck



No.2 and 3 rig the shackle goes right near the end so don't cut an angle off the boom. I use the end fitting shown

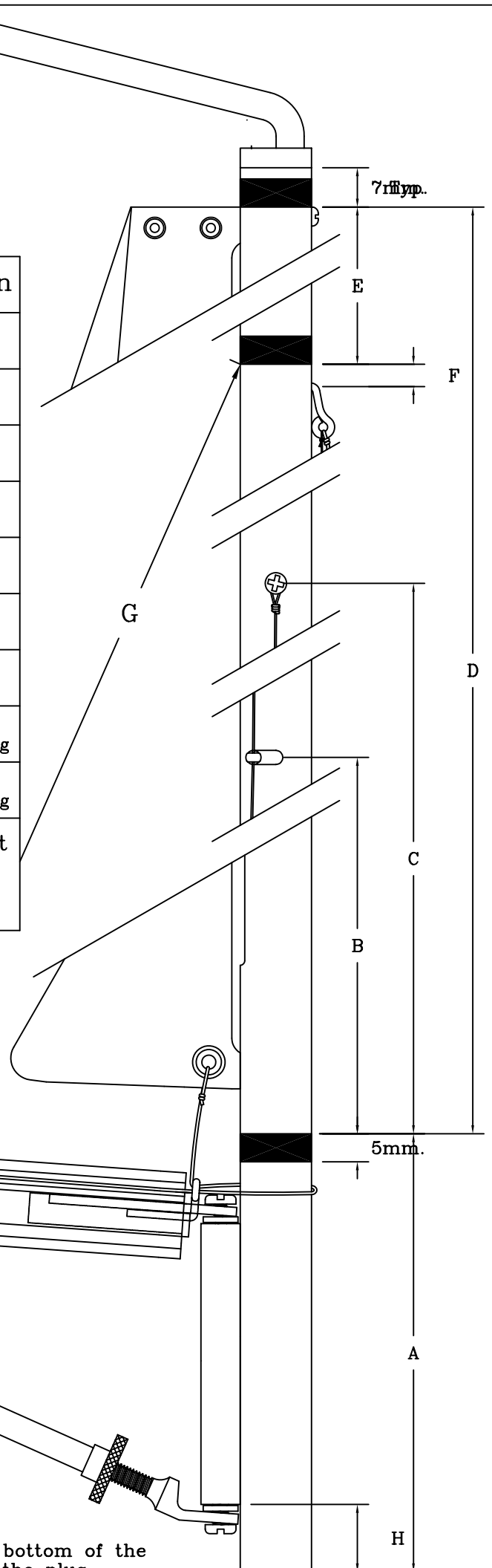
Holes for sheet adjustment hook 3mm apart.

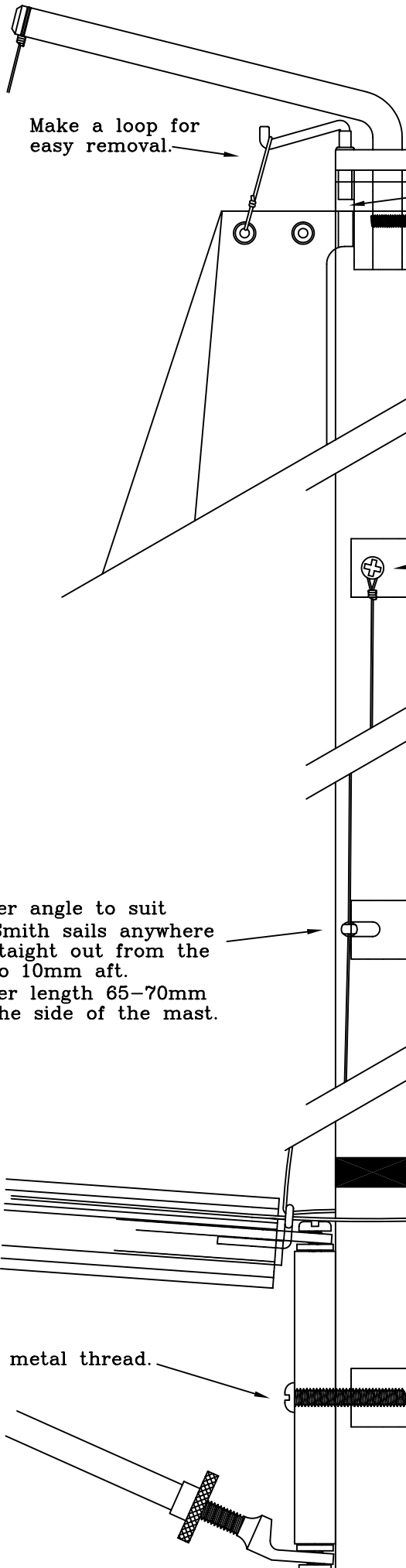
Jib boom

Mast Detail

Rig no.	1	2	3	Description
A	78	78	78	Bottom band
B	552	N/A	N/A	Spreaders
C	1098	712	532	Side stay
D	1599	1179	879	Top band
E	221	161	121	Middle band
F	4	4	4	Forestay connection
G	1560	1210	975	Mast rake (see note)
H	8	8	8	Ball race Gooseneck/Vang
H	12	12	12	Standard Gooseneck/Vang

Note. Rake measured from bottom aft point of mid band to most aft mid point top of transom, just behind backstay.





Make a loop for easy removal.

Cut off the aft section of the plastic mast plug about 2mm above the bottom edge of the top measurement band. This will allow the main to lift up so you can unhook it.

Small self tapper or 2mm metal thread. This will stop the mast crane slipping down and touching the headboard pivot.

Small self tapper or 2mm metal thread.

Spreader angle to suit Craig Smith sails anywhere from straight out from the mast to 10mm aft. Spreader length 65-70mm from the side of the mast.

Plastic insert to take sidestay, spreaders and gooseneck fastener. Available on request.

Self tapper or metal thread.

Approximate set up: Distance from the bottom of the mast (without the plug) to the load bearing point of the turnbuckle hook.

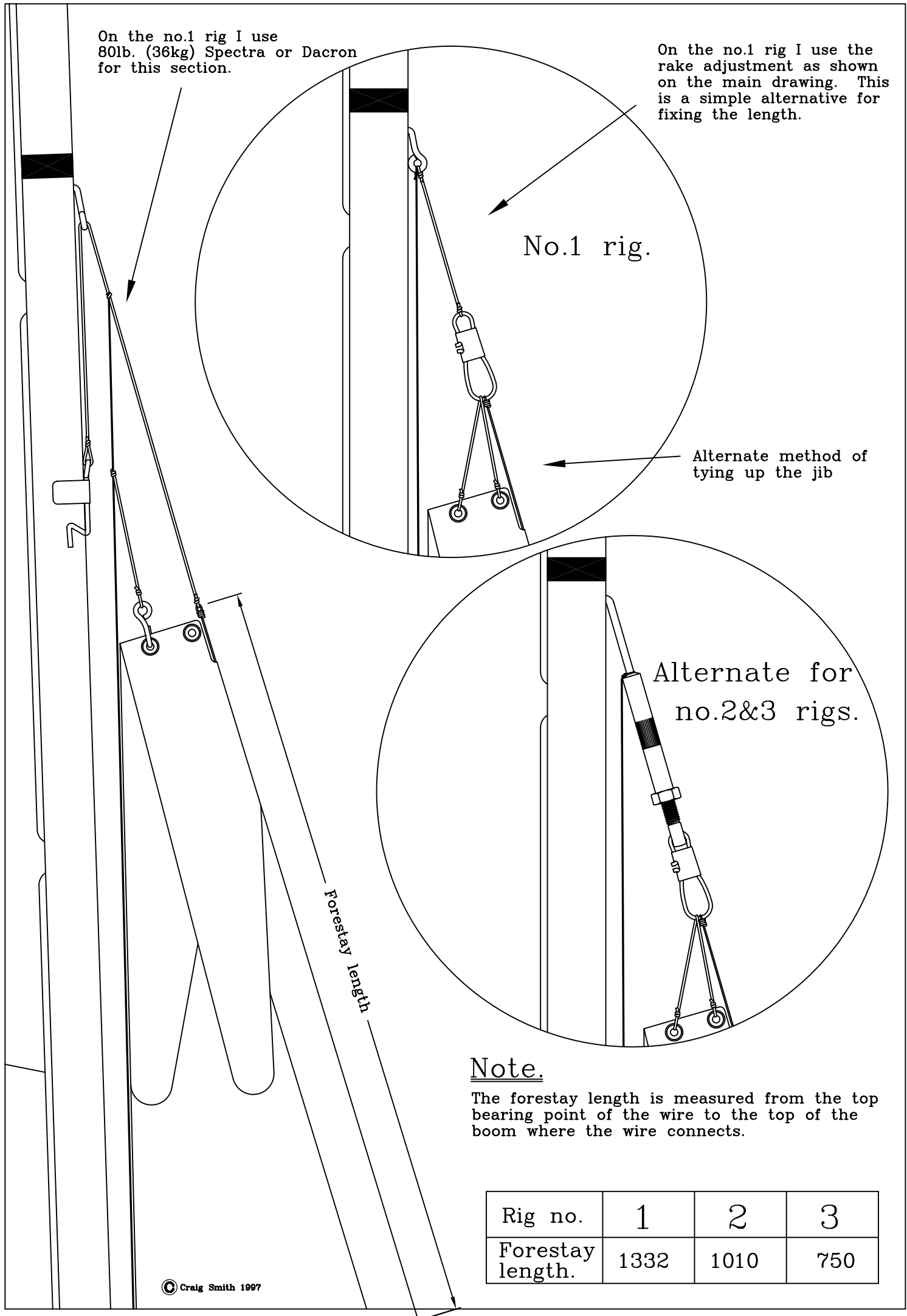
- No.1 rig 28mm.
- No.2 rig 23mm.
- No.3 rig 21mm.

Measurement done with the sidestays laying flat against the mast. On the no.1 rig remove the sidestays from the spreaders.

Mast Detail

On the no.1 rig I use 80lb. (36kg) Spectra or Dacron for this section.

On the no.1 rig I use the rake adjustment as shown on the main drawing. This is a simple alternative for fixing the length.



No.1 rig.

Alternate method of tying up the jib

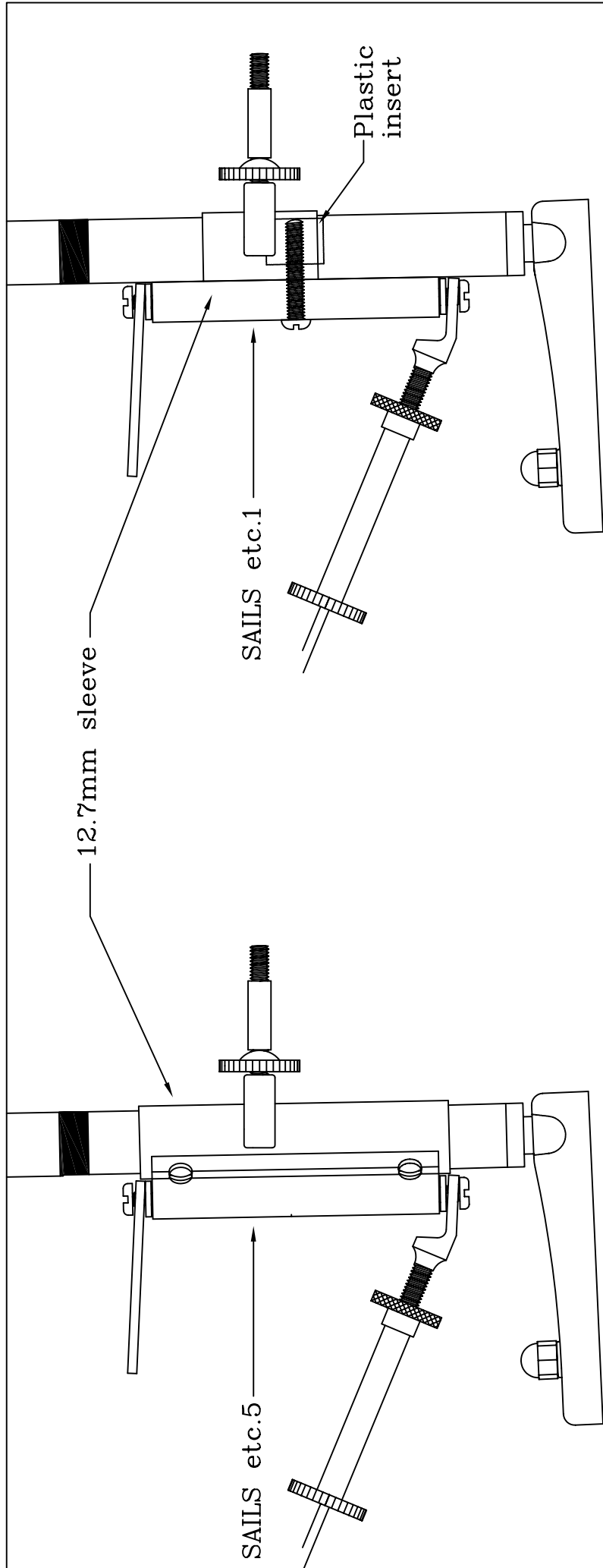
Alternate for no.2&3 rigs.

Forestay length

Note.

The forestay length is measured from the top bearing point of the wire to the top of the boom where the wire connects.

Rig no.	1	2	3
Forestay length.	1332	1010	750



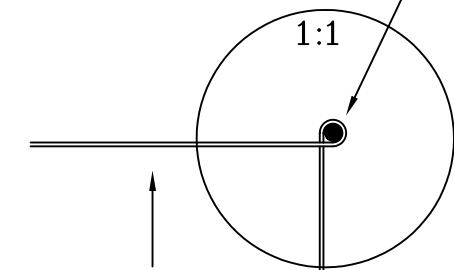
Gooseneck setup for 11.1mm mast

I prefer to use this method as there is a double thickness of aluminum for the screws to fasten to. Also you can just slide the 12.7 sleeve up over the mast without cutting out the back to allow for the other style of vang. The sleeve material is available from Radio Yacht Supplies in Queensland or use SAILS etc. 12.7 round mast section. In the past I have used a piece of Easton .490" tent pole.

Some people prefer this style of gooseneck as it is more simple to install. I find the only disadvantage is that the fastening screw really needs a plastic insert to tap in to or over time the gooseneck will slowly work its way loose. The plastic sleeve will also have to be cut out to allow for the body of the gooseneck to slide up the sail track.

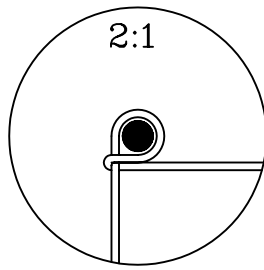
Terminating rigging wire

Bend the wire around a nail or piece of metal rod held in a vice to produce an eye of equivalent size.

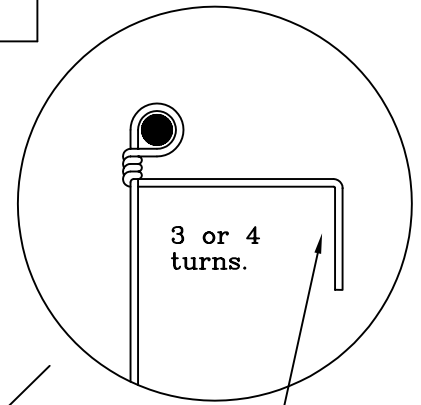


Leave at least 40mm of tail to hang on to.

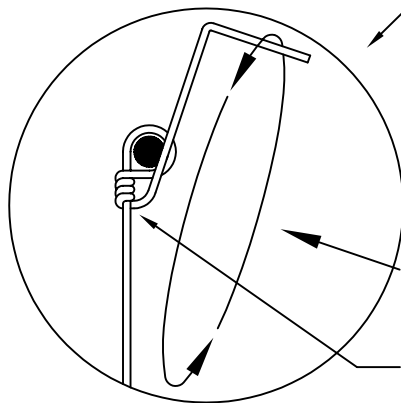
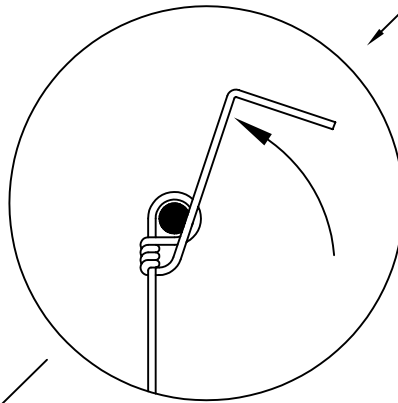
Main piece.



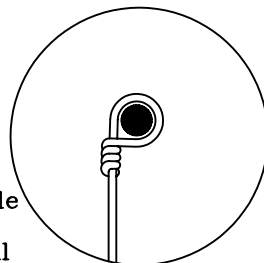
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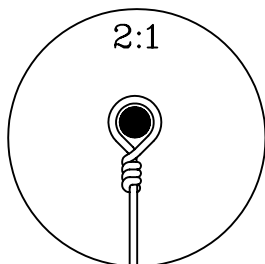
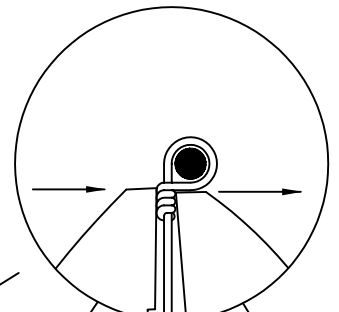
Bend at 90 deg. at approx. 20mm. away from main wire to create a small handle.

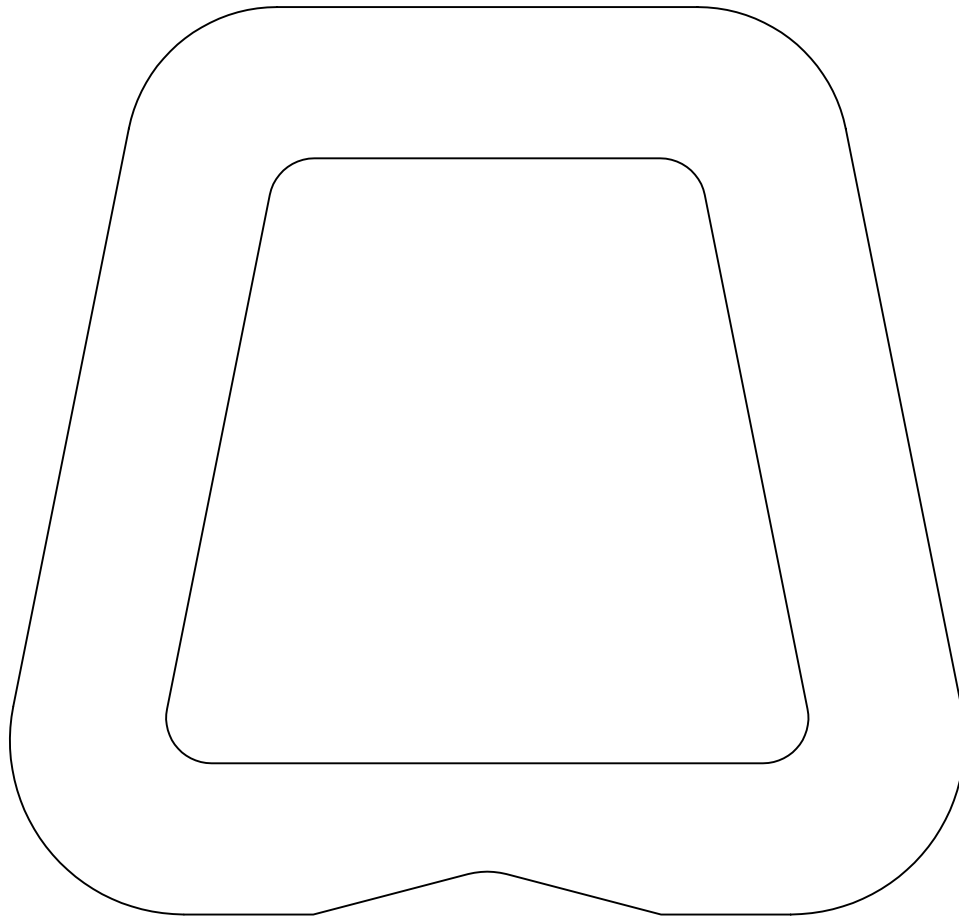


Turning the handle one or two times anti-clockwise will break off the excess at this point leaving the burr facing inwards.



Use a pair of pliers to centre the eye.





Sticky-back sail cloth
forward hatch patterns.

