JASPER & BAILEY SAILMAKERS

64 Halsey St. #11 P.O. Box 852 Newport · RI · 02840 401-847-8796

MEASURING NOTES

MAINSAIL MEASUREMENTS

Set up on your backstay to maximum tension. This will pull the mast back and induce maximum mast bend.

Set up your main boom to the position you want it in when sailing close hauled and trimmed into its maximum, using your topping lift and mainsheet. Make sure that it clears your dodger & boom gallows, etc.

Measure along the boom from the aft side of mast to the forward side of the black band; or to the pin on the extented outhaul if there is no black band. This is "E".

With the mast in its fully bent position pull the main halyard tight touching the aft side of the mast at the gooseneck.

Stand back and take a photograph of the mast from abeam or estimate the depth of curve at the 1/4, mid and 3/4 height positions using the fore and aft thickness of the mast as a reference.

Connect a steel tape measure to your main halyard shackle (also make a downhaul line fast to the shackle). If possible, also connect the shackle to a luff slide. This is especially important if you have no black band aloft. Your track should have a stop at the top end which will prevent the slide from going off the end.

Hoist the tape to either the upper black band, or if you don't have a black band, until the halyard is two-blocked aginst the track stop aloft.

Record the measurement to your lower black band or to the top of your main boom (in its lowest position if you have a sliding gooseneck.) This is "P".

If you have a sliding gooseneck record how high it can slide.

Record the leech measurement to the top of the boom at the black band or fully extended outhaul position.

Fill in the spaces that prescribe luff and foot slide type, clew and tack offsets and height of luff slide stop and gate on the accompanying form.

MAINSAIL MEASUREMENTS

		TIME TO PROOF PROPERTY	
	* Copy the following if you have one. Other) two measurements from wise, please measure th	your rating certificate, nem yourself.
	P (Maximum luff length	between bands on mast)	
	в (мах foot length alor	ng boom from aft face of	f mast to band;
	LUFF AND	FOOT STYLES (choose one)
	A B C C C C C C C C C C C C C C C C C C	← A →	→ B ← _
	Internal Track	External T-Track	Slot or Groove
MAST	Internal track A B C	External T-track	Slot or groove A B
BOOM	Internal track A B C	DExternal T-track	Slot or groove A B
<u> </u>	x x	THAUL TYPE (Choose one) No outhaul car (slott Sliding outhaul car (Clew pin to top of boo (Outer band to end of o	ed booms only) . om or track)
	*	GOOSEMECK	80124
	A (Tack pin to back of mast or mast track)	<u>ر درک</u> کی
	B (Tack pin to top of boom or boom track)	$-\frac{1}{8} - \frac{1}{8} \times 1$
	C (Bearing point of ree to back of mast or to	f hook ack)	

D (Beginning of mast track or slot opening above lower band)

FORETRIANGLE MEASUREMENTS

MEASURING "IG"

IG is the measurement from the point of attachment of the headstay to the mast structure to the level of the sheerline abreast the mast.

On most boats, you can measure IG within an inch or two by hoisting a tape measure on the spinnaker halyard.

Note the distance from the end of the tape to where the halyard will fetch up in the block (two block) aloft. Add this distance to the tape measure reading. With rope halyards tie a knot in the halyard just above the splice to provide a positive stop on the halyard.

With the halyard two blocked aloft pull the tape tight to the deck at the lowest point abreast the mast (usually where the deck meets the topsides). This approximates the IG. dimension.

For purposes of most PHRF certificates "IG" measured this way is identical to "ISP" and "I". However, if your boat is fractionally rigged and the spinnaker halyard block is more than a couple of inches above the head stay, measure ISP separately and connect the end of your tape to a shackle riding on the headstay when measuring IG.

While the tape is aloft in this manner, you should also measure down to where the headstay is pinned to the deck or bowsprit. This measurement should <u>include</u> any turnbuckles or adjusters or links. The resulting measurement will be within a couple of inches of the true pin to pin headstay.

To measure maximum hoist; hoist the tape measure on the jib halyard in the same manner that the jib will be hoisted (ie; on a roller furler, attach the tape to the shackle on the swivel that the head of the jib attatches to).

With the halyard two blocked aloft, measure to the shackle where the tack will be made fast. This is Maximum Hoist.

Note how high the tack attachment is above the deck and how far it is offset from the stay or groove the jib rides on or in..

MEASURING "J"

This is the horizontal distance from the forward side of the mast where it meets the deck or coachroof to the point where the headstay meets the deck or bowsprit. For greatest accuracy, measure from the mast to the line of a plum bob set over that point.

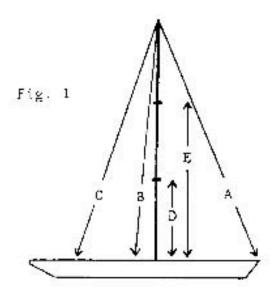
MEASURING "SPL"

Spinnaker pole length is measured with the pole attached to the mast and swung out horizontally athwart ships. The measurement is from the center line of the mast to the extreme outboard end

FORETRIANGLE MEASUREMENTS

Take the following two measurements from your rating certificate or sail plan.

MEASUREMENT PROCEDURE



1. Leech and luff lengths. Shacklo a measuring tape onto your genoa balyard and fully boist it, until the halyard is two-blocked. Now, take the following three measurements (Fig. 1):

Maximum Hoist. From the genoa halyard shackle in its fully hoisted position down to the tack bearing point.

Maximum Leech. From the halyard shackle in its fully boisted position to the forward end of the genoa track. The tape should pass around the shrouds as if it were a genoa leech. Pull tight for measurement.

Maximum Leech. From the halyard shackle in its fully hoisted position to the aft end of the genoa track. Same procedure as in b.

2. Spreader Patches. As you lower the tape from the masthead, pause on the way down to measure the height of each spreader above the chain plate. Use bottom of port or starpoard chain plate at deck level for measure point.

D Lower (or only) spreaders E Upper spreaders

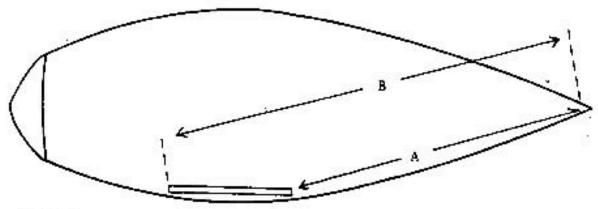


Fig. 2

3. Foot Lengths. Attach the tape measure to the genoa tack bearing point on the bow. Stretch it aft to the genoa track, doing your best to avoid obstructions and get a straight line measurement (Fig. 2).

A Genoa tack to forward end of genoa track

B Genoa tack to aft end of genoa track

'4. Headstay System. (Choose one)	
Hanks or snaps	
Slotted foil (Specify brand and model)	
Roller furling (Specify brand and model)	-
	Tack Ring Fig. 3
5. Tack Ring. Here is our standard tack ring compatible with a shackle, tack horn and clevils your boat different? Please comment if you requirements.	is pin/II channel systems
Miscellaneous Notes:	



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