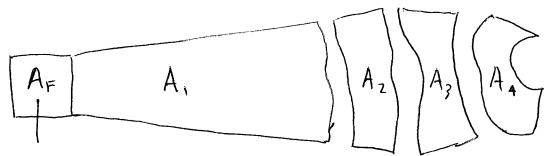
SEWING RIBS

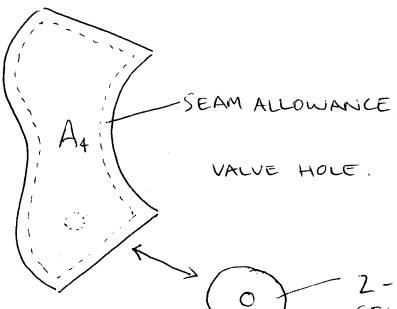


FLAP FOR TUCKING IN TUBE,

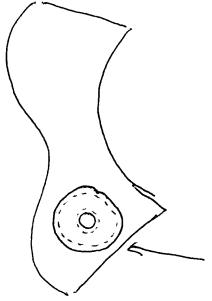
* AF & A, SHOULD BE CUT AS ONE PIECE.

* 3.902/SQ.40 DACRON RECOMMENDED

Dα.

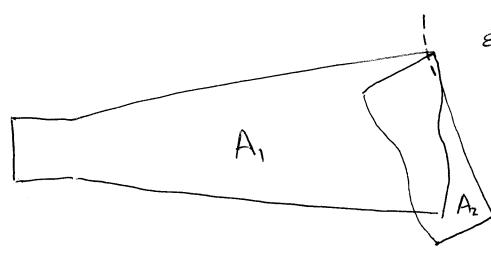


2-2.5" DIAMETER SELF ADHESIVE DACROW FOR VALVE HOLE REINFORCEMENT. (1) b.



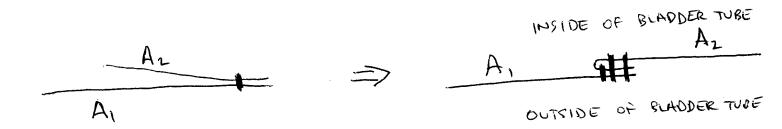
STRAIGHT STITCH VALVE HOLE REINFORCEMENT

(2) a. PIECE RIB PARTS TOGETHER.

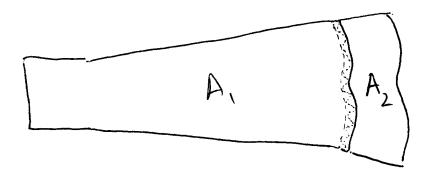


FLIP PIECE AZ & SEW ALONG SEMM LINES TO A, - USE BROAD STRAIGHT STITCH.

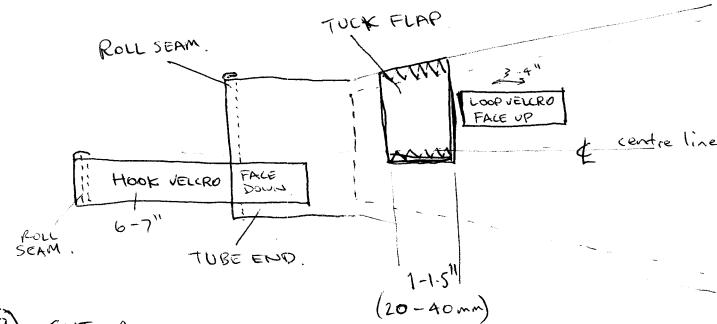
(2) b. FLAT FELLED SEAM A: Az



FOLD AZ BACK AND KEEP TENSION ON WHILE SEWIND A "TRIPLE 216-2AG" STITCH ON SEAM. / / / / IF YOUR MACHINE DOES NOT SUPPORT THIS STITCH YOU LAN USE PLAIN 216-2AG / / / / . THE SMOOTH FOLDED OVER SECTION WILL BE ON THE INSIDE OF THE RIB, THE SEAM ON THE OUTSIDE. THIS WAY NO SHAPP EDGES WILL DAMAGE THE BLADDER.



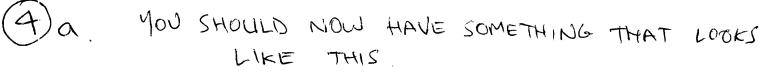
(2) C REPEAT FOR Az: Az & Az: Az etc.

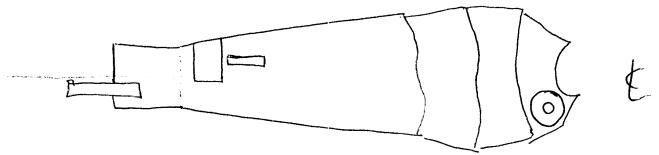


- (a) CUT AND SEW A TUCK FLAP ROUGHLY 1-1.5" WIDE WITH STITCHES ON ONE SIDE WITHIN THE RIB SEAM ALLOWANCE, & ON THE OTHER SIDE BEYOND THE CENTRE LINE OF THE RIB. * MAKE SURE TO SEW ALL OF THESE PARTS ON THE OUTSIDE OF THE RIB, THAT IS, ON THE SEAM UP SIDE.
- (b) SEW A SINGLE OR DOUBLE ROLLED OVER SEAM ON
 THE TUBE END
- © SEW A 3-4" LENGTH OF LOOP VELLED (THE SOFT ONE)
 IN FRONT OF THE TUCK FLAP.
- TAKE A 6-7" LENGTH OF HOOK VELLRO (SCRATCHY ONE).

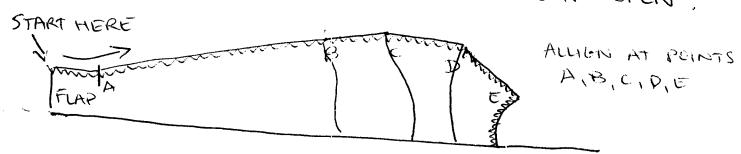
 POLL OVER ONE END SEW FACE DOWN TO THE SAME

 SIDE OF RIB FABRIC, BUT OPPOSITE SIDE OF CENTRELING





THE REMAINING STEP IS TO FOLD THE KITE DOWN THE CENTRE-LINE (AND SEW THE FINAL SEAM LEAVING THE FLAP OPEN.



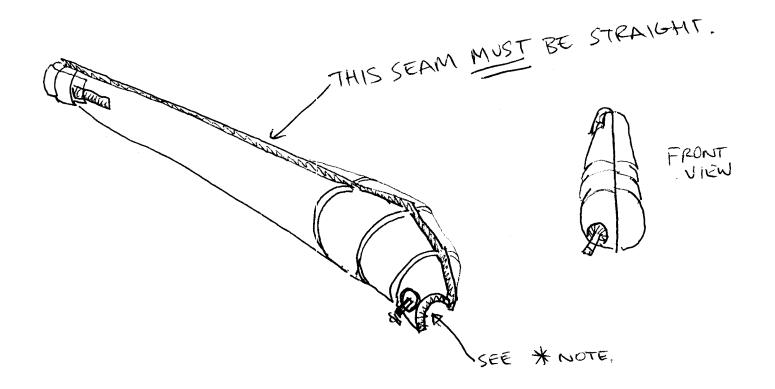
THIS SHOULD BE A FLAT SEAM, CLOSE
TRIPLE 216-2AG

THE STRAIGHT-NESS OF THIS SEAM DETERMINES

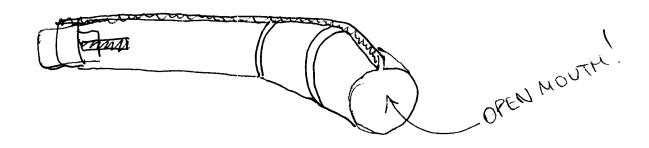
HOW ACCURATE YOUR FINISHED FOIL SHAPE IS.

ALLIGN IT CAREFULLY AT POINTS A, B, C, D, E etc & UNSTITCH & RE-SEW IF IT DEVIATES SIGNIFICANTLY IT IS A GOOD IDEA TO INFLATE IT NOW (WITH A TUBE INSIDE) TO SEE IF THE SHAPE IS GOOD.

SEW ALL OF YOUR RIBS. INFLATED THEY SHOULD LOOK LIKE THIS:



* NOTE IF MOU ARE USING WING TIP RIBS THAT ARE CONNECTED TO THE LEADING EDGE (NAISH XZ STYLE) THEN DO NOT SEW UP THE MOUTH OF YOUR TIP BATTENS, LEAVE THEM OPEN.



SEWING THE LEADING EDGE.

IN MOST COMMERCIAL KITES THE SPINNAKER NYLON IS SEWN DIRECTLY TO THE LEADING EDGE. THIS IS WHERE THE TEARS MOST FREQUENTLY OCCUR, SO THE TWO OPTIONS HERE SHOW YOU A METHOD WHERE A SMALL EXTRA LENGTH OF DACRON POLLS DUER INTO THE BELLY OF THE KITE, THIS MAKES A STRONGER KITE, AND AS YOU WILL SEE, MAKES JEWING EASIER

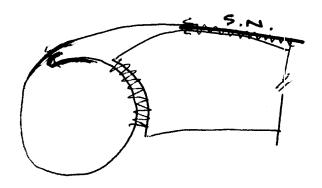
TRADITIONAL CONSTRUCTION

ATTACHMENT POINT FOR SALL! REINFORCEMENT. RIB

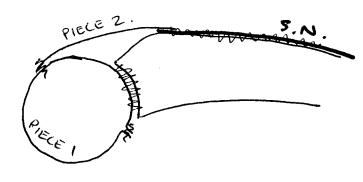
LEADING EDGE TUBE.

SAUL'S 2 IMPROVED METHODS.

ONE PIECE METHOD



TWO PIECE METHOD



A BY USING ONE OF THESE 2 METHODS YOU WILL

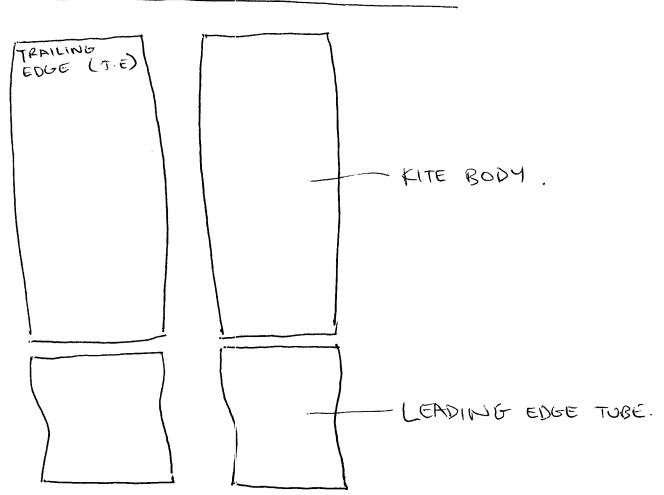
GET A STRONGER KITE & NOT REQUIRE PEINFORGMENT

PATCHES AT THE RIBS. THIS IS BECAUSE THE

RIB IS SEN'N TO THE LEADING EDGE PACRON EXTENSION

NOT JUST THE SPINNAKER NYLOW.

MAKING PATTERNS FROM SURFPLAND.

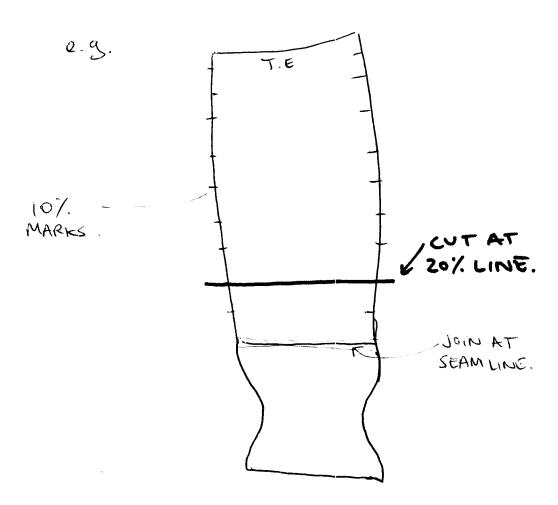


(Da) IF YOU ARE USING ALTERNATIVE METHOD 1

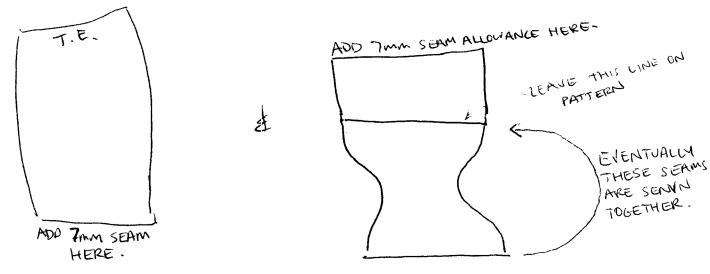
JOIN THE BODY & LEADING EDGE (L.E)

PIECES IN A CAD PROGRAM SUCH AS ADORE

TLLUSTRATOR OR COREL DRAW.



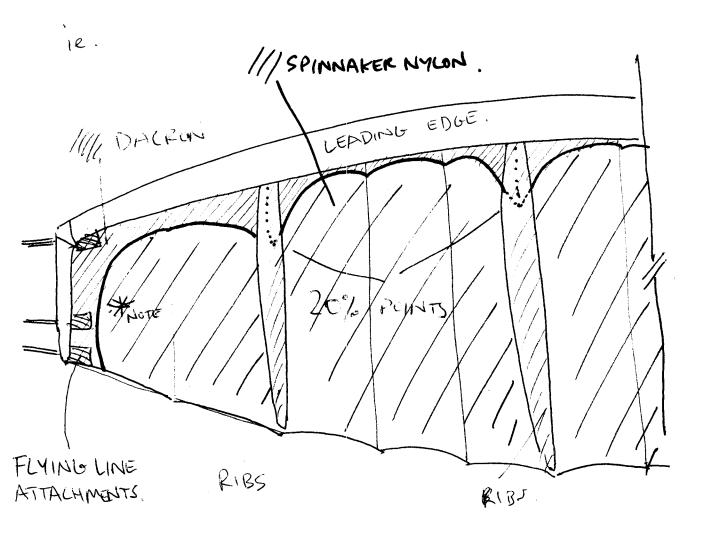
NOW YOU WILL HAVE 2 PIECES.



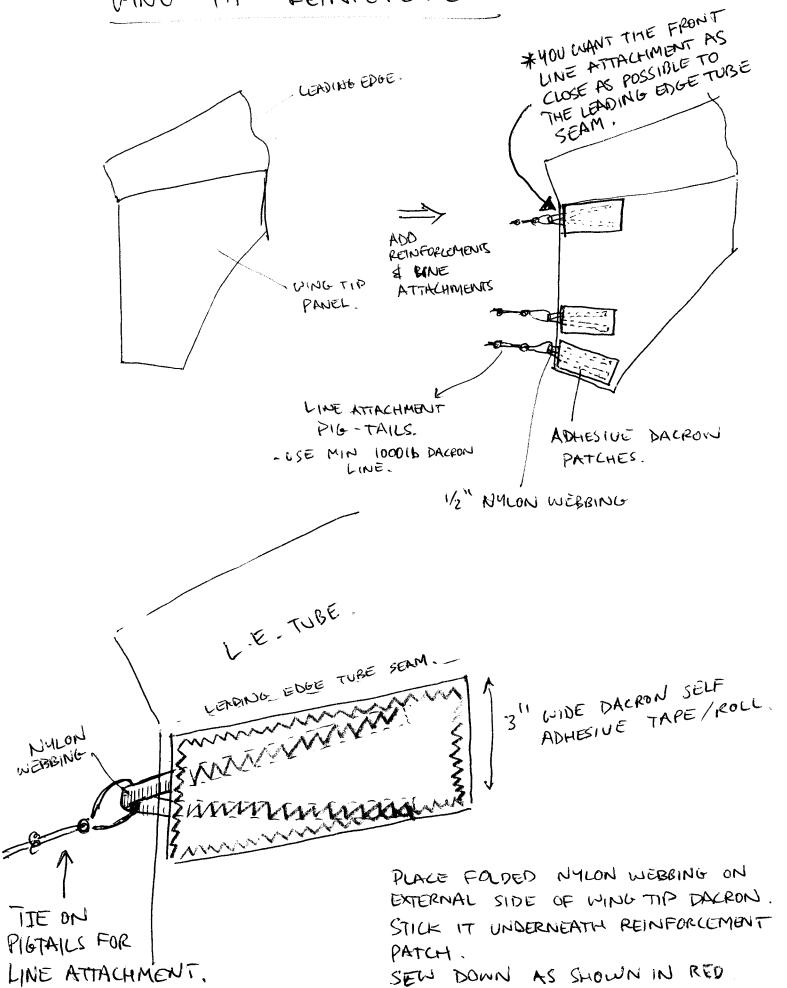
(1) b. IF YOU WISH TO SPEND A LITTLE MORE TIME,

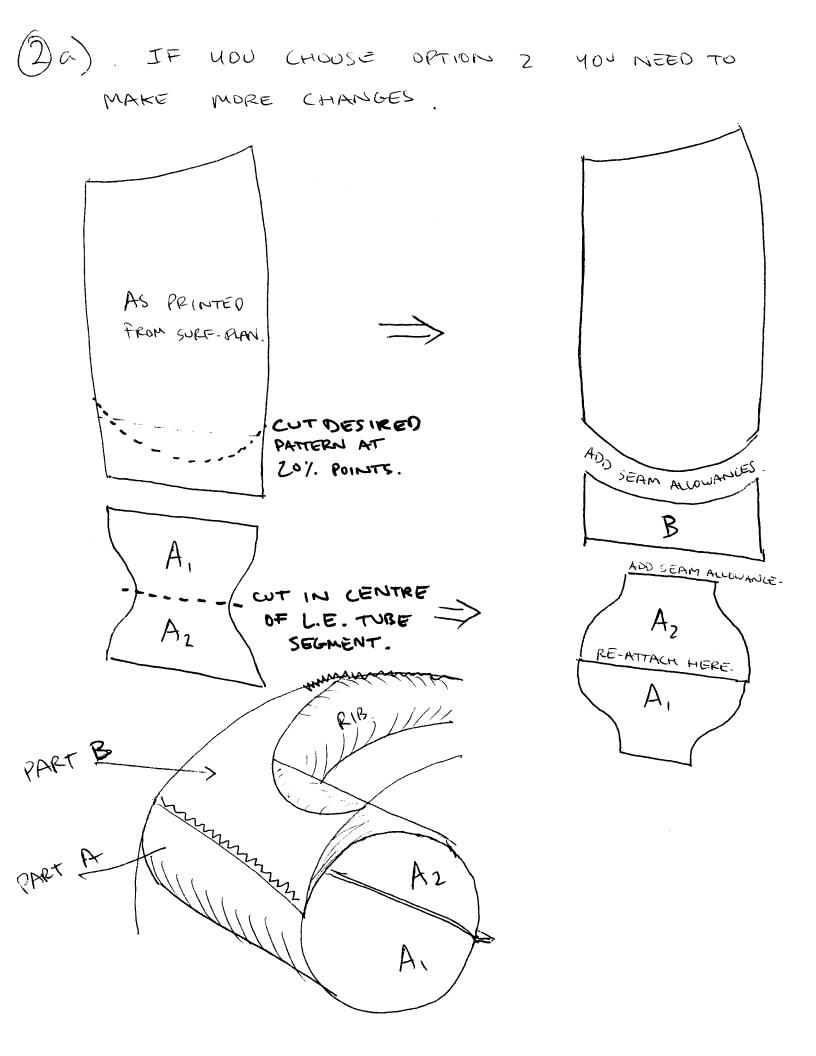
AND TO MAKE THE KITE A LITTLE LIGHTER YOU

CAN SCALLOP THE DACRON BETWEEN RIBS.

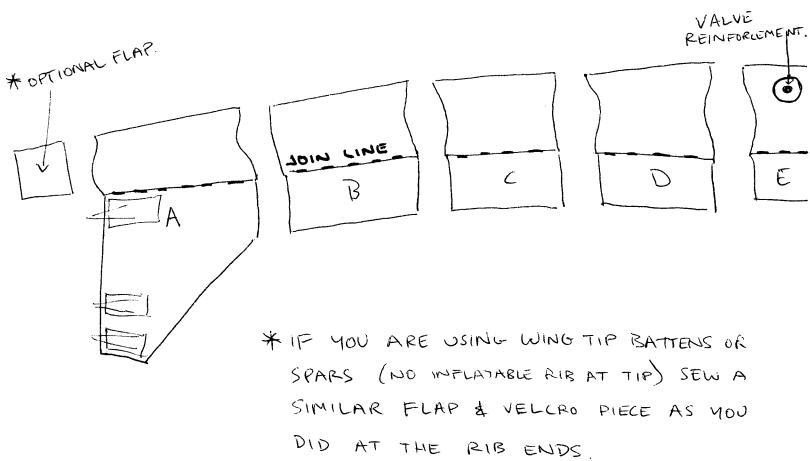


*NOTE THAT AT THE WING-TIP YOU BRING THE DA CRON RIGHT AROUND TO THE EDGE AS LOAD DISTRIBUTOR AND STRESS / REINFORCEMENT POINT.





3 ASSUMING YOU ARE USING OPTION 1



- (3) a. SEW A VALUE REINFORLEMENT PATCH ON YOUR CENTRAL PATCEL
- (3) D SEW FROM ONE EIND TO THE OTHER A:B:(:D:...:D:B

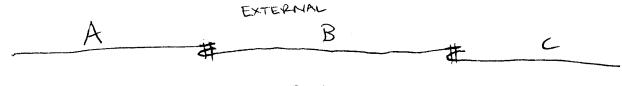
 USING FLAT FELLED SEAMS SIMILAR TO THE

 RIB. ENSURE THAT ALL OF YOUR SEAMS ARE

 EXTERNAL ON ONE SIDE OF THE CLOTH AS

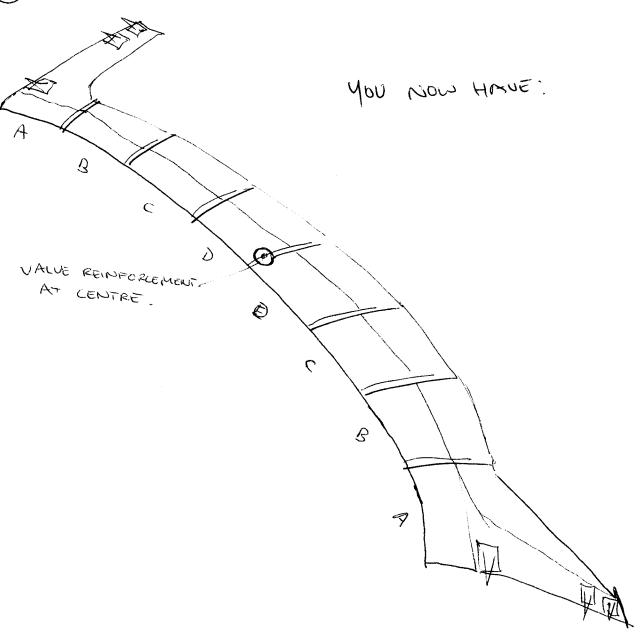
 WITH THE RIBS. * VALVE ON EXTERNAL SIDE.

 FEINFORLEMENT



INTERNAL.

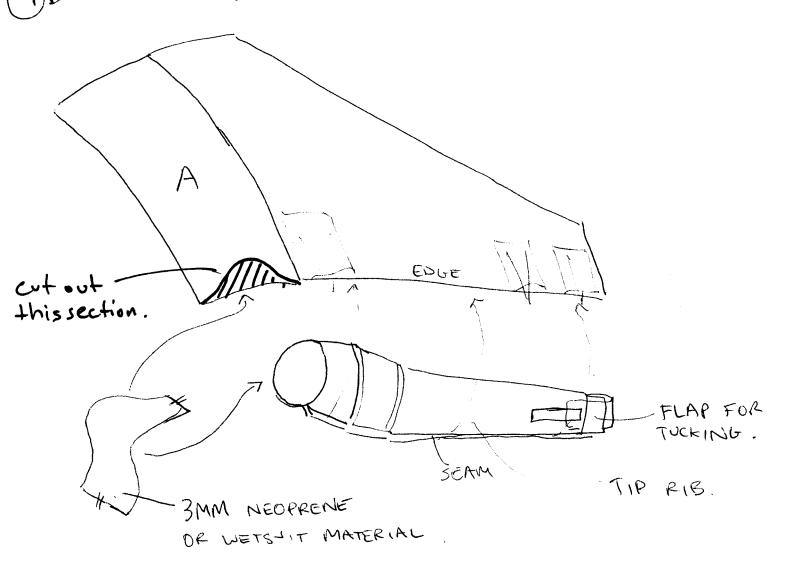




IF YOU ARE USING WINGTIP PRIORS THAT ARE PART OF LEADING EDGE YOU NOW

ATTACH THOSE RIBS....

X2 - STYLE CONTINUOUS LEADING EDGE / WING-



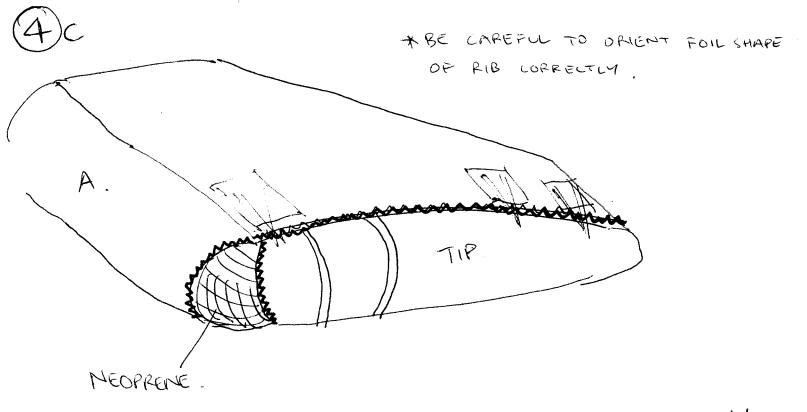
* CUT A NEOPRENE "CORNER JOINT" THAT IS

SEWN TO VING-TIP A AND THEN TO YOUR

WING TIP RIB. STARTING FROM THE

TRAILING EDGE NOW SEW THE SEAM OF YOUR

WING-TIP RIB TO THE EDGE OF PANEL A.

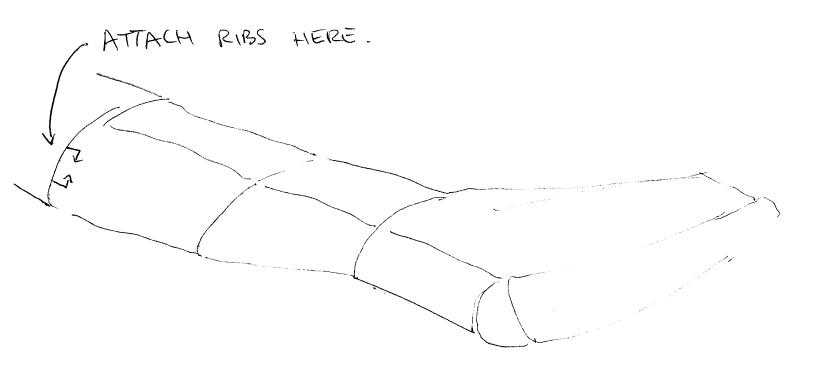


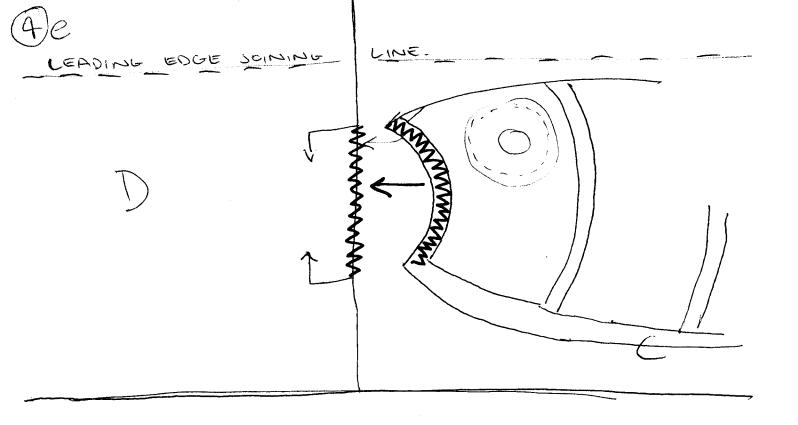
* DO NOT SEW LEADING EDGE TOGETHER YET!!

F) d YOU ARE NOW READY TO SEW THE OTHER

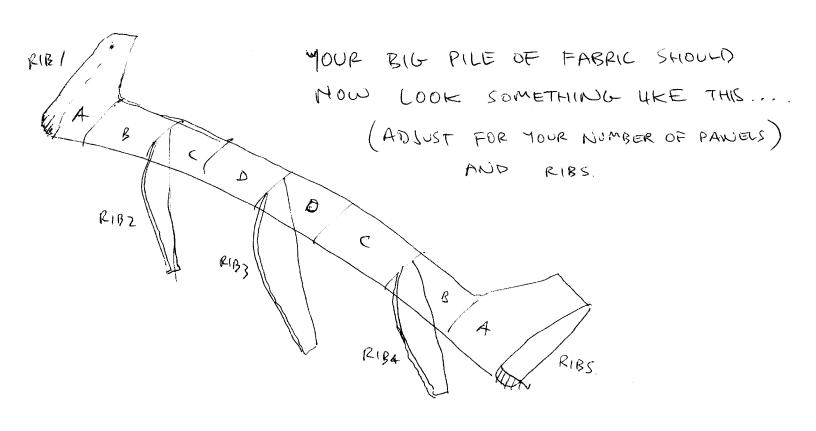
RIBS TO THE EXTERNAL SIDE OF THE LEADING

EDGE AT THE SURFPLAN ATTACHMENT POINTS





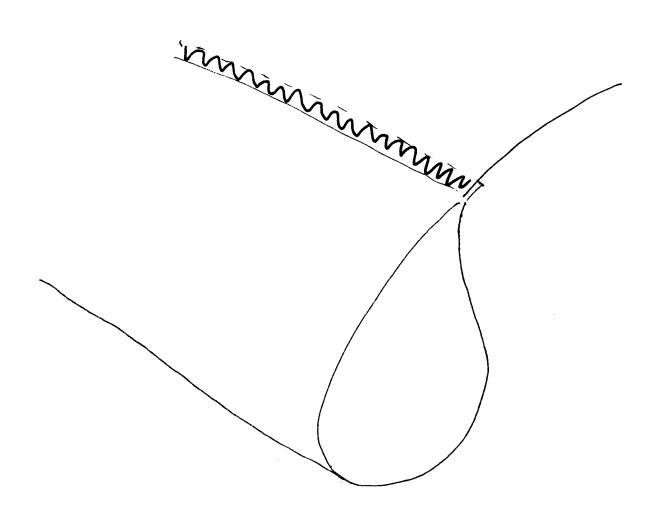
SEW RIB TO LEADING EDGE AS SHOWN TAKING CARE TO ALLIGN CURVED RIB TO STRAIGHT L.E. SEAM.



Af. NOW SEW THE LEADING EDGE SHUT.

START AT ONE END AND SEW A FLAT SEAM, TRIPLE 216 ZAG. 111111

TAKE CARE AS ACCURACY OF THIS SEAM
DETERMINES L.E SHAPE. DO NOT SEW
OVER THE RIBS!!

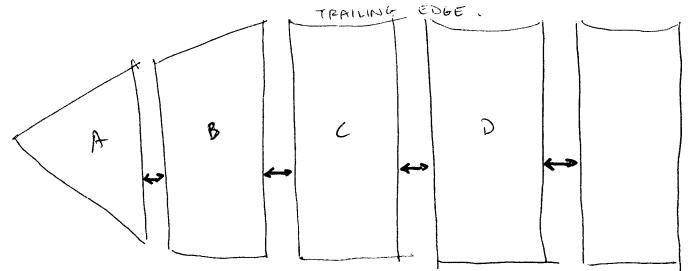


YOU NOW HAVE THIS.

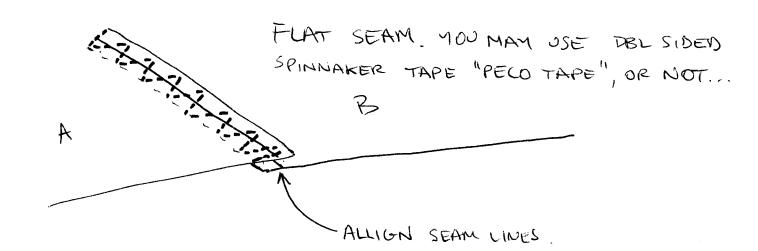
(YOU ARE CLOSE). RIO SERIN SIDE JE

RIB ATTACHMENTS.



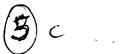


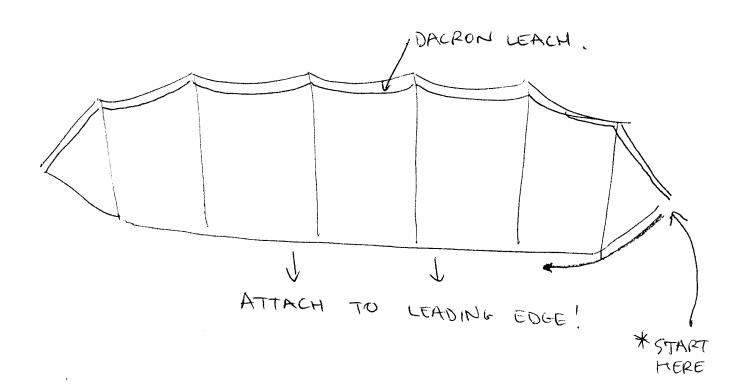
(3) a MOVING FROM ONE TIP TO THE OTHER SEW
YOUR BODY PANELS TOGETHER. MAKE SURE
ALL TRAILING EDGES ARE ALLIGNED



ADHESIVE NYLON "RIP-AIR" TAPE. THIS IS 1.5" WIDE ADHESIVE BACKED SPINNAKER NYLON. YOU CAN EASILY SPLIT THE ROLLS INTO 1/2" OR 3/4" WIDTHS!

3 B	SEW	A LEACH	0~70	THE TRAILI	NG EDGE.
	3 OPT	10~5			
<i>~</i>)	4		4019	over on self	
<i>b</i>)	4			ver on self a line (300) tre.	
e) dacron	# tape		using of trailing through	dacron tope edge and	e fold over 1 stitch
3/4 - 1	•	* THIS	IS MY F	PREFERRED	WETHOD





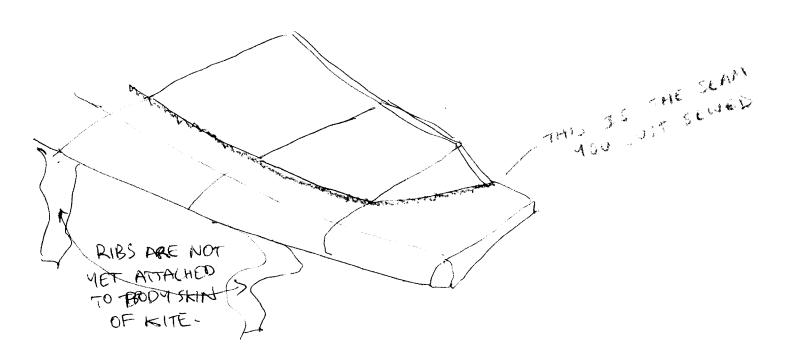
(3) d. STARTING AT ONE END*, SEW THE NYLON BODY

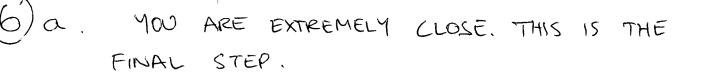
OF THE KITE (ABOUE) TO THE DACRON LEADING EDGE.

(A). AS YOU GO ALLIGN THE LE PANELS WITH BODY

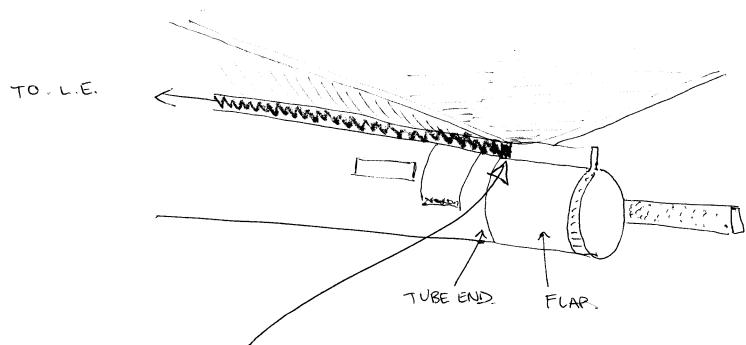
PANELS.

YOU SHOULD NOW HAVE:

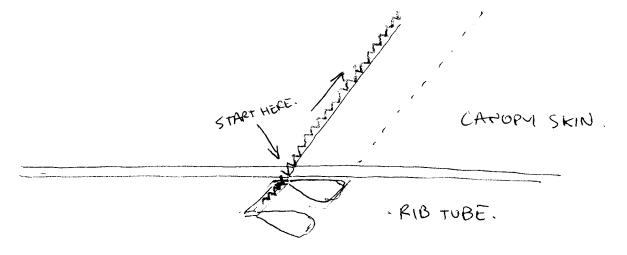




* STARTING AT THE TRAILING EDGE ALLIGN THE RIB TO THE CAMPPY SKIN AND SEW TOWARDS THE LEADING EDGE.



BE SURE TO ALLIGN TRAILING EDGE TO THE TUBE END, NOT THE FLAP END.



6c

SEW RIB TUBE TO

CANOPY & FINISH 1-2

INCHES IN ON THE DACRON

REMFORCEMENT THAT ROLLS

* THIS NEGATES THE NEED FOR THE FOAM

REINFORMENTS AT RIB/SKIN ATTACHMENT

THAT ARE CUMBERSOME AND CAUSE DRAG

ON COMMERCIAL KITES.

OFF THE LEADING EDGE.

(6) d. REPEAT FOR ALL RIBS.

YOU ARE FINISHED!

ATTACH 4 FLYING LINES.

FIND WIND

FIND WATER.

RIP