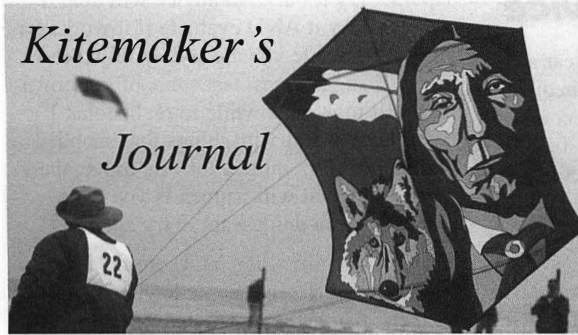
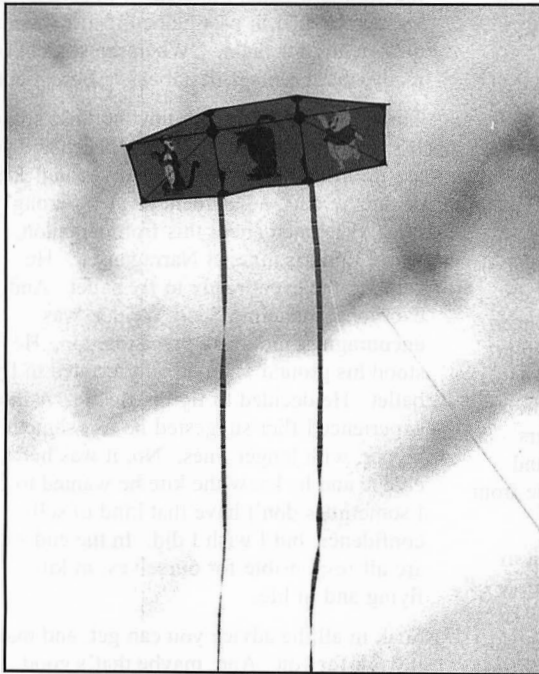


Genki Building Instructions:

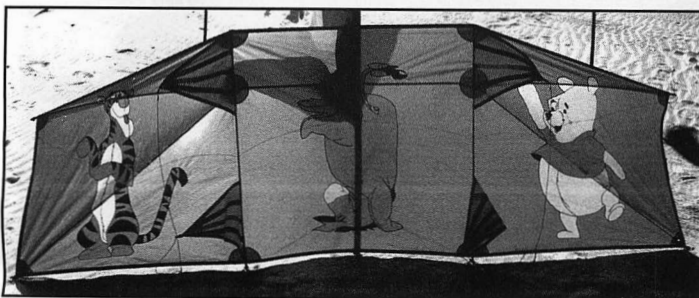


GENKI KITE -

plans by Mike Dallmer

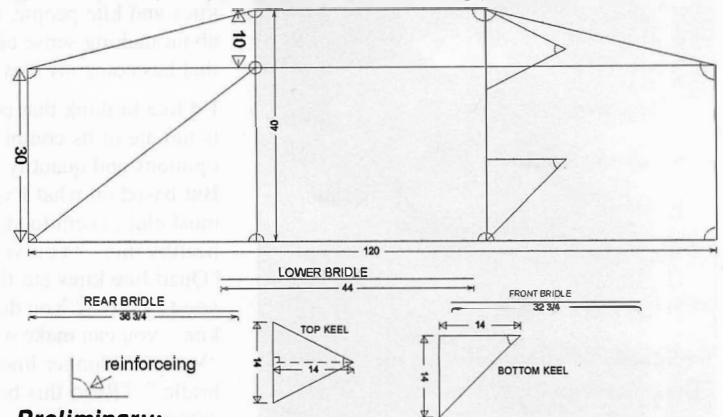


When I first decided to build this kite I was looking for a low wind, steady flying kite that could be staked and left to fly all day. What resulted was better than my expectations with a wind range up to 20 mph. The plans that follows were created for a workshop that I gave as part of a continuing series of workshops offered by South Jersey Kite Flyers. They are tested and proven to work, however anyone with problems can feel free to contact me. I recommend that graphics be put on the sail after it is cut out but before assembly so that all the necessary reinforcing patches can be color-coordinated. Good luck and good building.



Cut out:

- 1) Sail. All measurements are in inches.
- 2) Reinforcements, they are based on a 3" diameter circle.
- 3) 2" x 14 yd strip for edging binding.
- 4) 2" x 35" strip for bridle loops.
- 5) 2" x 30" strip for pockets. Cut into 2 " long pieces.

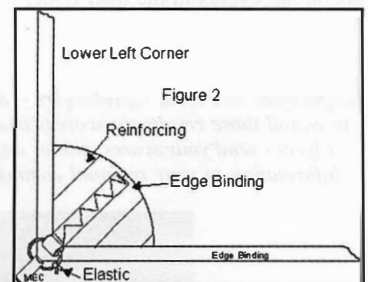
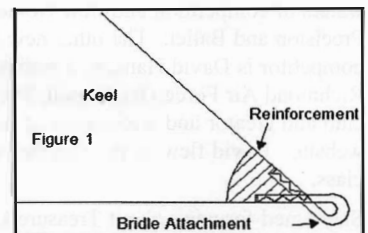


Preliminary:

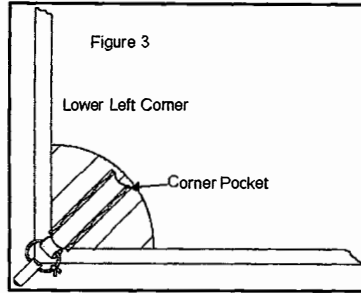
- 1) Edge Binding:
 - A) Fold each edge of 2" x 14 yd over approximately 3/8". I do this by ironing.
 - B) Then fold this in half, iron it again. This makes a double fold tape.
- 2) Bridle loops:
 - A) Fold the 2" x 35" strip in half lengthwise.
 - B) Fold it in half again.
 - C) Fold it in half, again.
 - D) Fold it again half, winding up with a strip approximately " wide.
 - E) Sew a straight stitch the entire length of this.
 - F) Cut four 4 1/2" lengths. This makes the bridle attachments.

Assembly:

- 1) Sew Reinforcements where located on drawings.
 - A) Make sure that when the Reinforcements are sewn on to the Keels that one Reinforcement is sewn to each side of the Keel.
- 2) Sew Edge Binding around entire edge of Sail. Start in the center of one of the 1" Marks (where spars will eventually be located).
- 3) Sew bridle attachments to the Keel, onto the Reinforcement (**Figure 1**):
 - A) Fold in half lengthwise.
 - B) Line up along edge of Keel leaving " exposed for bridle attachment.
 - C) Sew onto Keel using triple zigzag.
- 4) Sew Edge Binding on all four Keels, making sure bridle attachment points are exposed. Do not put Edge Binding where the Keel will be sewn into Sail (1/2" mark).
- 5) Lower Sail Corners:
 - A) Thread 1 Machined End Cap (.1800) onto a piece of 5" long 3/32" Elastic.
 - B) Tie ends together.
 - C) Thread a 4" piece of Edge Binding through loop in elastic.
 - D) Fold in half.
 - E) Sew onto a lower corner of Sail pointing towards top center; make sure you are sewing on side with reinforcement. See **Figure 2**

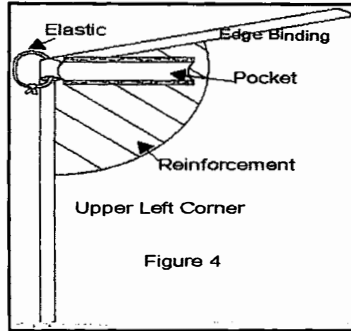


- F) REPEAT steps A – E for other corner.
- G) Fold 8 of the 2" x 2" strips so you wind up with 2" x 1" pockets
- H) Sew the 1" sides on edges.
- I) Attach to Sail over Reinforcement so that it covers the edge binding holding the elastic, elevate it a little so that the spar fits in it. **See Figure 3**



6) Upper Sail Corners:

- A) Same as Lower Sail Corner except no Machined End Caps are used and the Edge Binding points to center of sail. **See Figure 4**

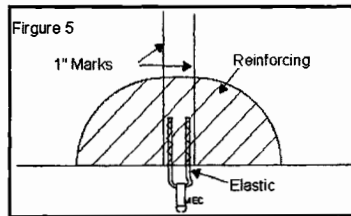


7) Tip Spreader Center Pocket:

- A) Take 2 more of the 2" x 1" pockets and sew them on Reinforcement #6 with open end pointing towards Reinforcements 2 & 4.

8) Spine End Caps:

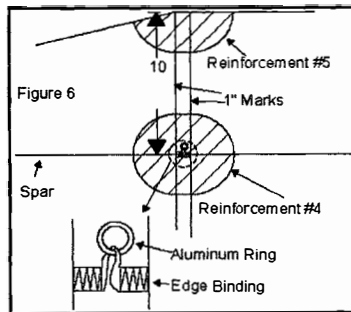
- A) Thread 1 Machined End Cap (1800) onto a piece of 5" long 3/32" elastic.
- B) Sew this onto the bottom of the Sail between the 1" marks leaving about 1/2" exposed on each side. I use a triple zigzag stitch. Sew this in the front side of Sail. **See Figure 5.**



- C) Repeat for other side.

9) Spreader Spar Holders:

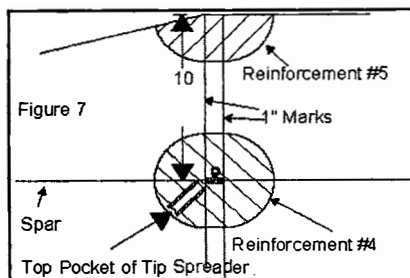
- A) Take 1" of Edge Binding and thread it through one of the 1" aluminum rings.
- B) Measure 10" down from the top of the sail at the 1" marks. This should fall in the center of reinforcing #4.
- C) Sew the edge binding between the 1" marks, 1/2" on each end. **See Figure 6**



- D) Repeat for other side.

10) Top Pocket of Tip Spreader: **See Figure 7**

- A) Take a piece of the 2" wide strip and cut it 2" long.
- B) Fold all edges over 1/2".
- C) Position this on reinforcement #4 so that it points towards reinforcement #6, and is 10" from the top of the sail.
- D) Sew 3 sides leaving the 1" pointing towards reinforcement #6 open.
- E) Repeat for other side.

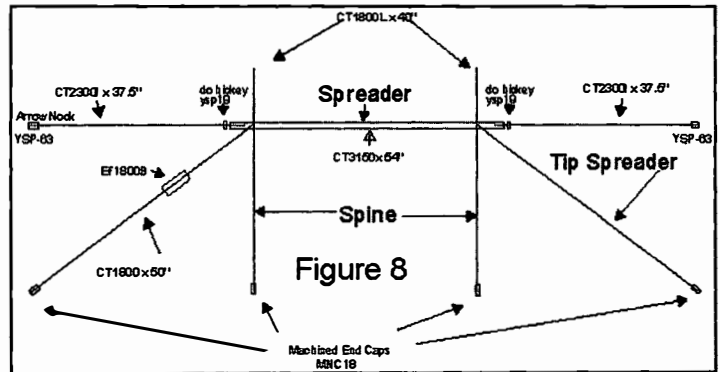


11) Finishing Sail

- A) On the front side of the Sail run a length of Seamstick (1/4" wide double-faced tape) from the top to the bottom on the outside of one of a set of 1" marks.
- B) Place the Top Keel over the tape aligning the sewing marks. Make sure the top of the Keel aligns with the top of the Sail.
- C) Repeat from Bottom Keel lining up the bottom of both.
- D) Place Seamstick over the Keels.
- E) Fold over the Sail lining up the 1" marks.
- F) Sew using a straight stitch including the top.
- G) Remove Seamstick.
- H) Repeat for other set of 1" marks.

12) Frame:

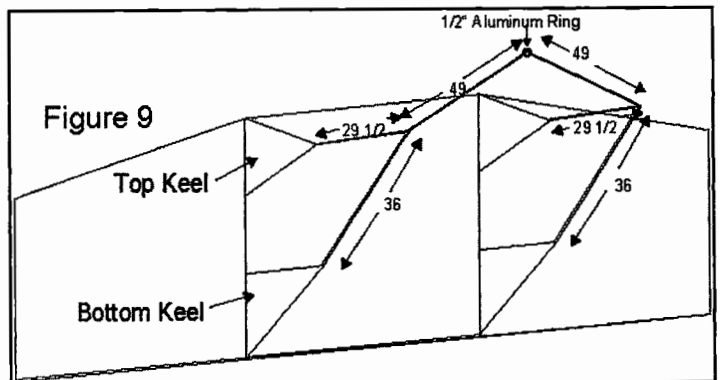
- A) Assemble frame as shown in Figure 8. Make sure that CT3150 is centered and through the Spreader Spar Holders.
- B) Insert the .1800 Spines into pockets formed by 1" marks.



13) Bridle the kite as shown in Figure 9, it is called a Compound Bridle.

14) BowLine:

- A) Tie a loop in one end of a 14' piece of 100# bridle line
- B) Hook loop onto Arrow Nock (YSP-63).
- C) Run this thru the Line Tensioner.
- D) Pass the free end over other Arrow Nock.
- E) Tie off to Line Tensioner.
- F) Adjust so the Spreader is bowed backwards about 8".



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Do you have kite plans that you would like to share?
 KITING is interested. Please contact us!