



PSB#012588  
Installing New Double Brake System on Existing Vector Tandem Systems  
January 25, 1988

DEAR TANDEM OWNER

The main canopy in your Tandem Vector is our new 421. While the 421's airfoil is basically the same as our 420, it is different in several ways. Minor differences include reinforcement and trim. Major changes include cascaded lines and our new "Double Brake System".

Cascaded lines yeild smoother, cleaner openings which should result in fewer malfunctions. The "Double Brake System" allows much lighter turn toggle pressure, while still giving the best flair and stopping power in the industry.

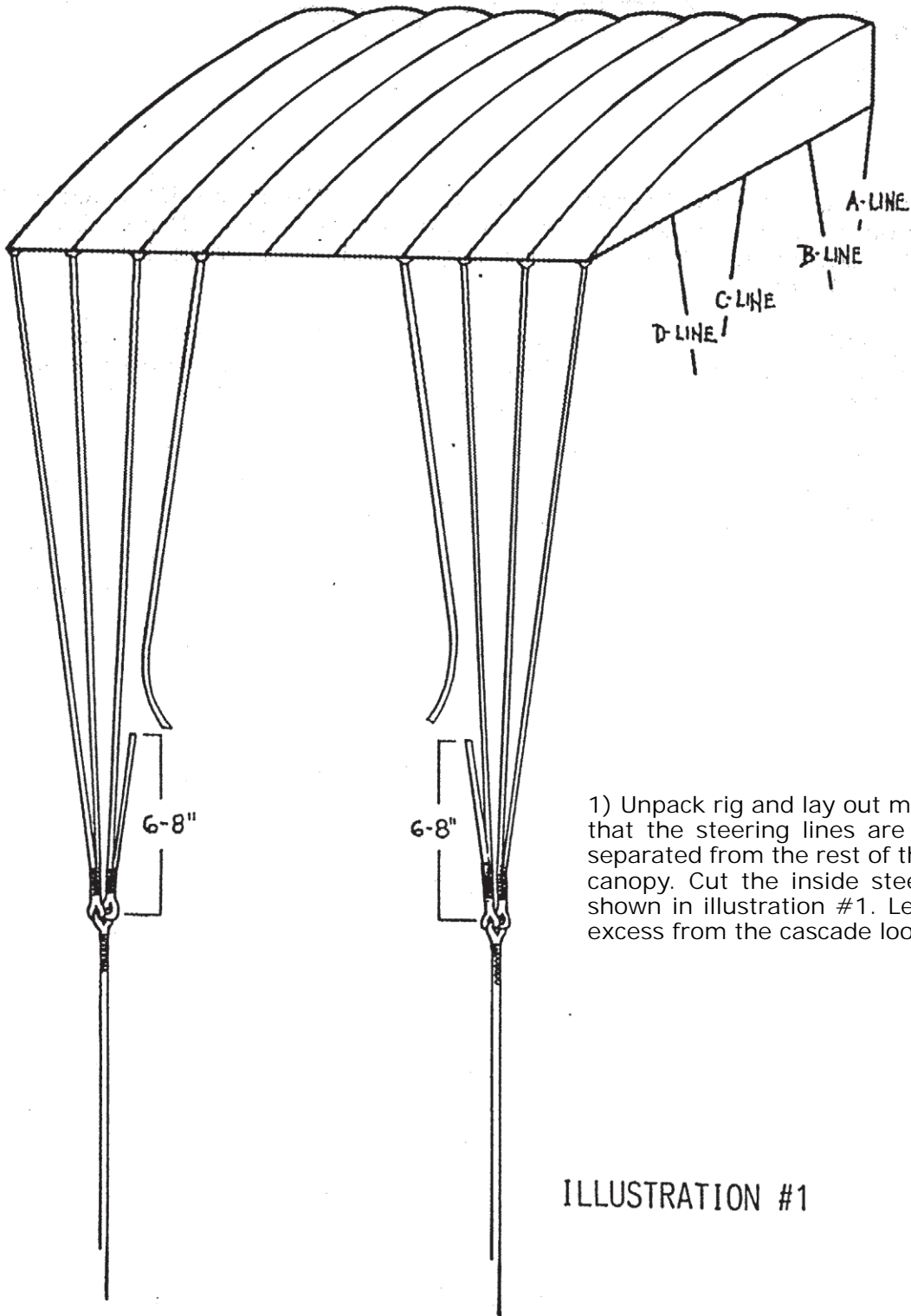
A full explanation of the "Double Brake System" is contained in your owner's manual. Please read it and make sure everyone who packs or uses your system, thoroughly understands.it.

From the first jump I put on the prototype 421, I knew we had a canopy which was far better than anything we or anyone else had on the market. I immediately stopped production of the 420 and began a thorough test program with this new canopy. While this decision substantially delayed shipment of Tandem Vector,, I'm sure you will agree that the much imroved product you are now getting was worth the wait.

Sincerely,

William R. Booth  
President

INSTALLING NEW DOUBLE BRAKE SYSTEM ON EXISTING  
RELATIVE WORKSHOP TANDEM SYSTEMS



1) Unpack rig and lay out main canopy so that the steering lines are straight, and separated from the rest of the lines of the canopy. Cut the inside steering lines as shown in illustration #1. Leave 6 - 8" of excess from the cascade loop as shown.

ILLUSTRATION #1

- 2) Finger trap the cut line back into its neighbor line as shown in illustration #2. Begin the finger trap as close to the zig zag stitching as possible, and run for about 3"
- 3) Push the outer line of the finger trap down and trim off the inside line with a scissors as shown in illustration #3.
- 4) Smooth the finger trap over the cut line and secure with about 1" of zig zag stitching as shown in illustration #4.



ILLUSTRATION #2

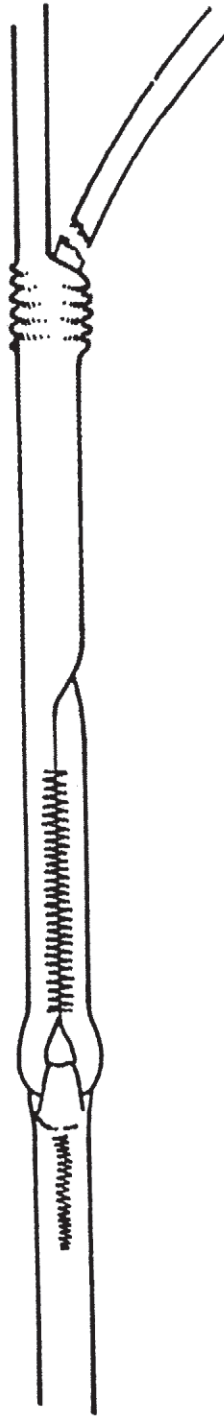


ILLUSTRATION #3



ILLUSTRATION #4

5) Remove the old inside steering line from the attachment tape on the tail of the canopy. Lay the new steering line next to the existing set of steering lines with the setting loops right next to each other. Put a pencil or screw driver through both loops as shown in illustration #5. This will keep the lines perfectly matched while the top and bottom of the new line is attached.

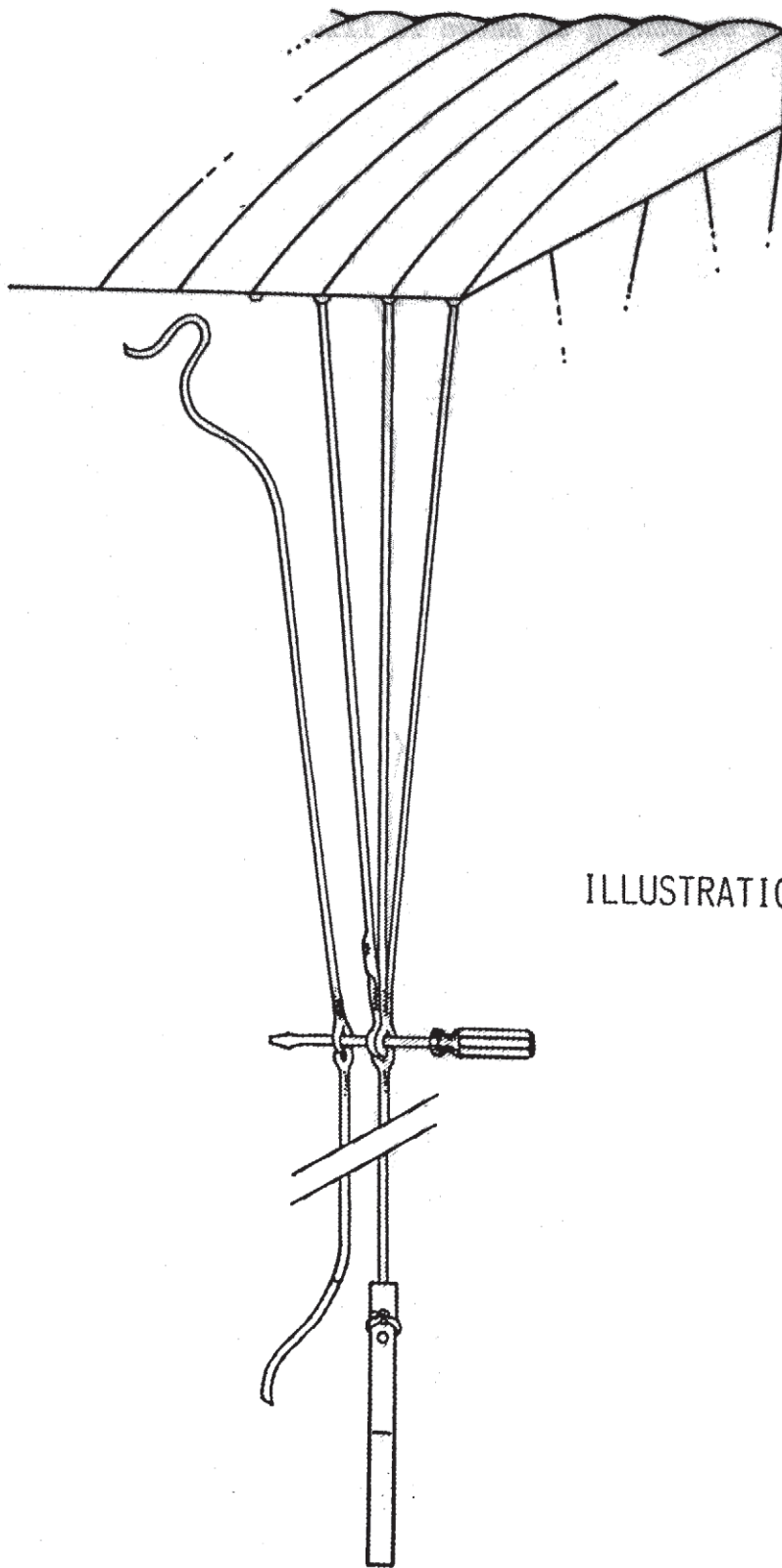


ILLUSTRATION #5

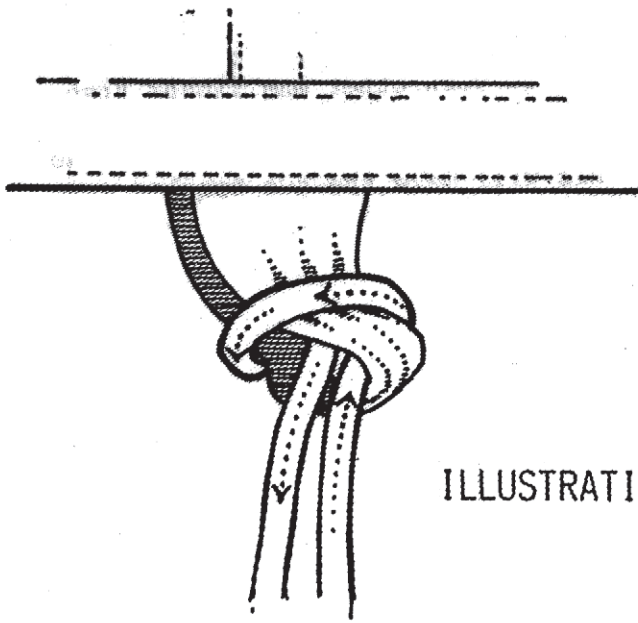


ILLUSTRATION #6

6) Thread the new line through the existing attachment tape as shown in illustration.

7) Make sure the new line is the proper length before tightening the knot (the lines should be the same length with equal tension, using the setting loops with the pencil through them as the starting point). Finger trap the line back into itself, making the finger trap at least 1" when finished. Zig zag over the finished finger trap as shown in illustration #7.

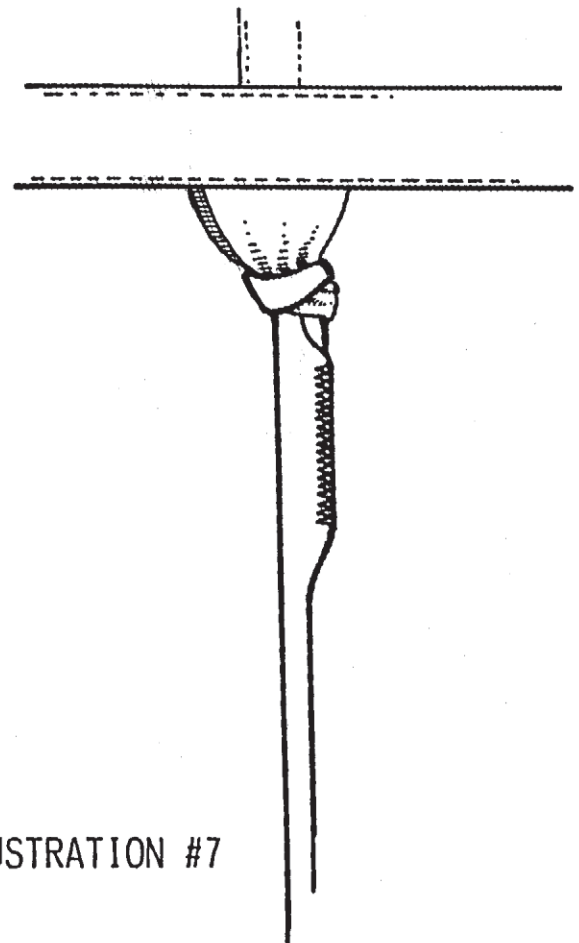


ILLUSTRATION #7

8) Again using the setting loops with the screwdriver through them as the starting point, lay the lines next to each other 'dnd-finger' trdp the bottom of the extra toggle line as shown in illustration #8. The entry-point for the finger trap should be even with the center of the grommet on the long gold toggle. This will make the two toggles even when set on the riser. The finished loop should be about 1" long.

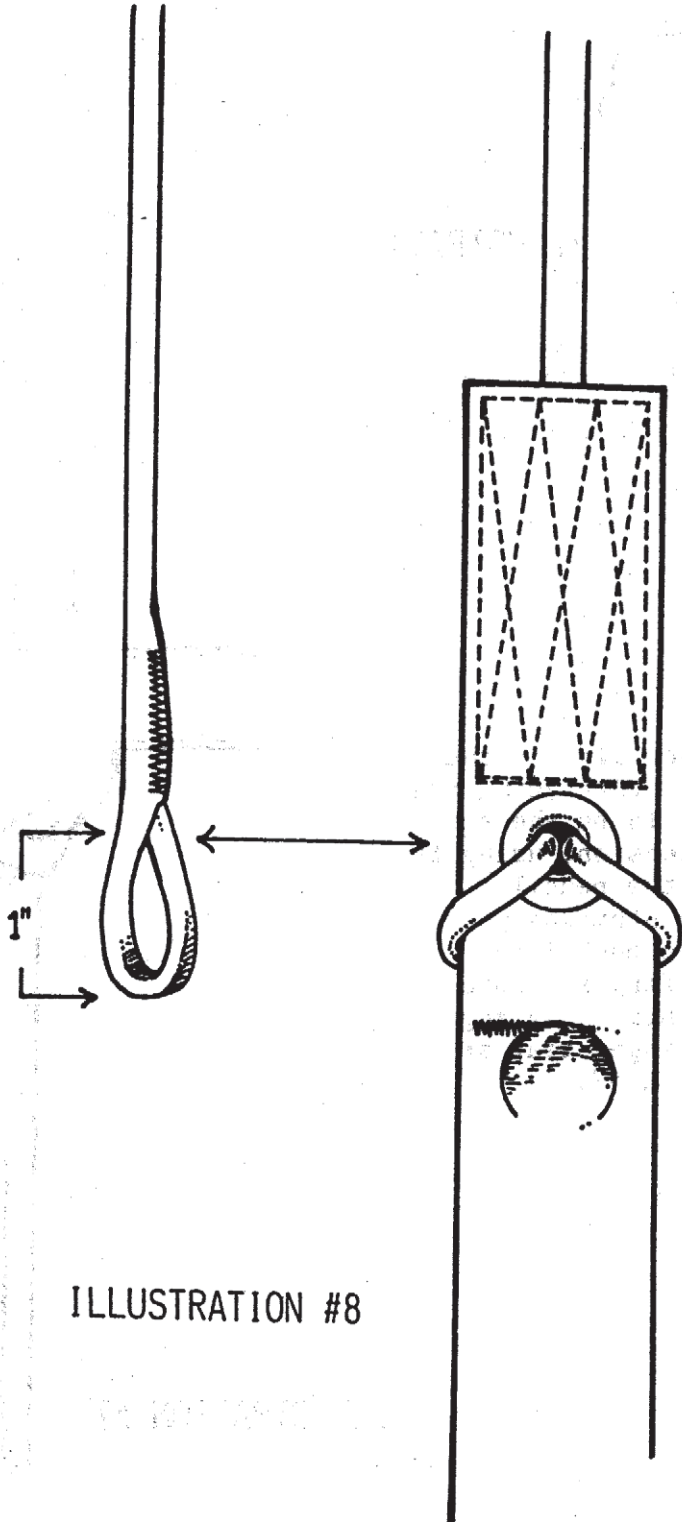
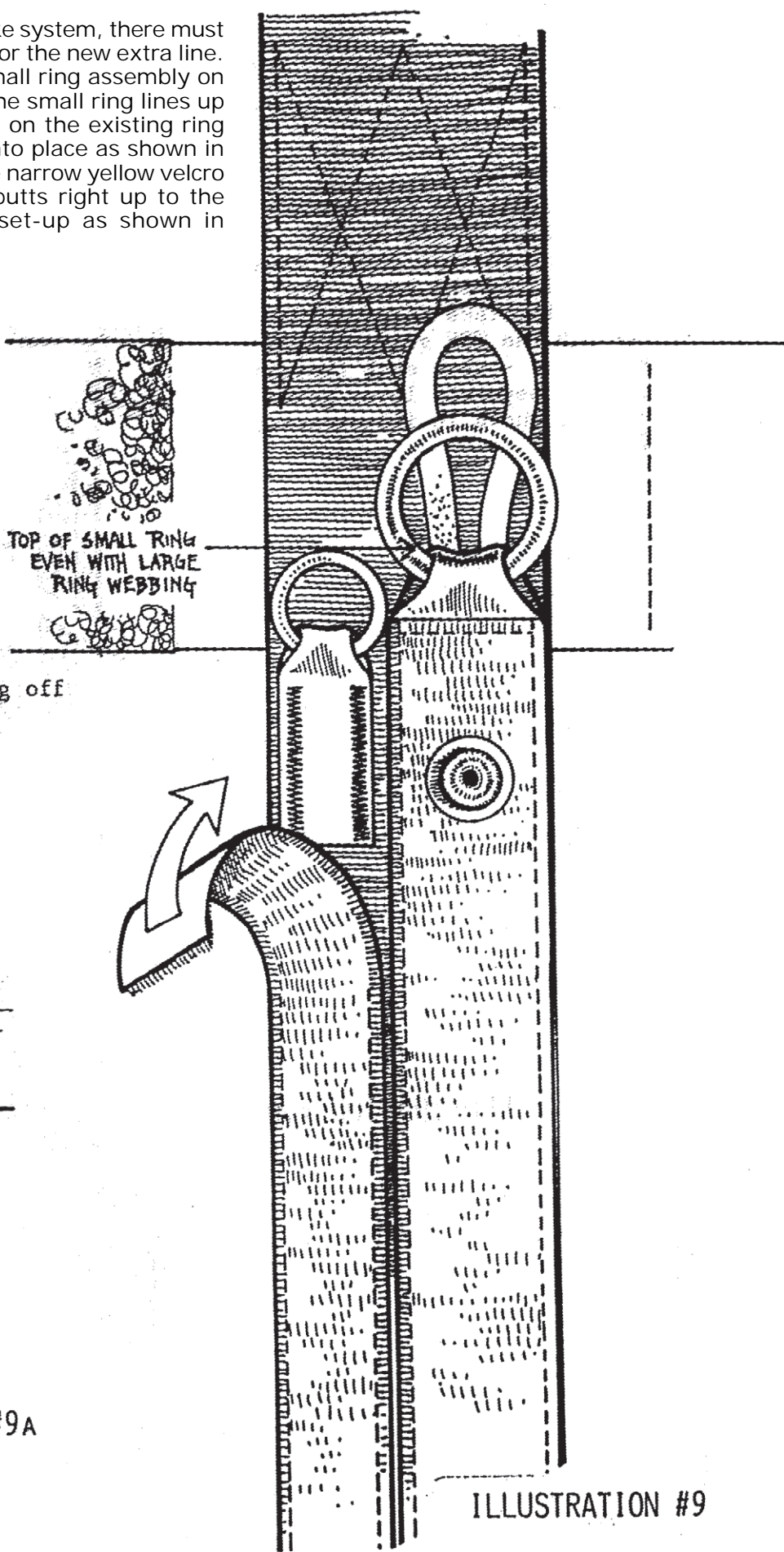


ILLUSTRATION #8

9) When setting the new brake system, there must be a separate toggle holder for the new extra line. To install this, line up the small ring assembly on the riser so that the top of the small ring lines up with the top of the webbing on the existing ring set-up. Bartack or zig zag into place as shown in illustration #9. Next, sew the narrow yellow velcro into place so that the top butts right up to the bottom of the small ring set-up as shown in illustration #9a.



(Note: Velcro may hang off edge of riser a bit.)

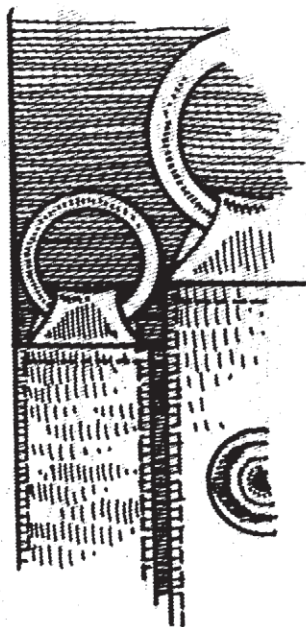


ILLUSTRATION #9A

ILLUSTRATION #9

10) Install the new extra small black toggle on the bottom of the new toggle line with a larkshead knot. Note that both brake lines go through the TOP guide ring on the riser then each through its own separate lower guide ring as shown in illustration #10.

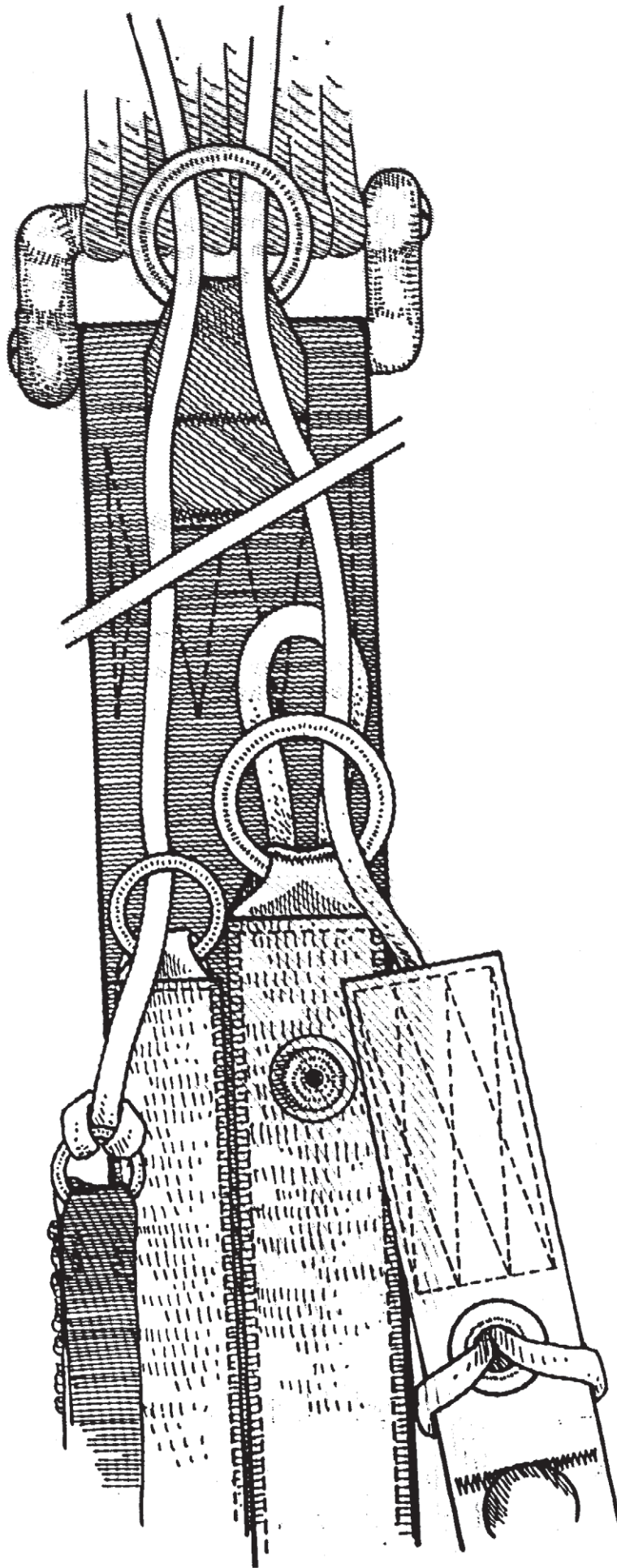


ILLUSTRATION #10