

LF Series

RETENSIONABLE FRAME

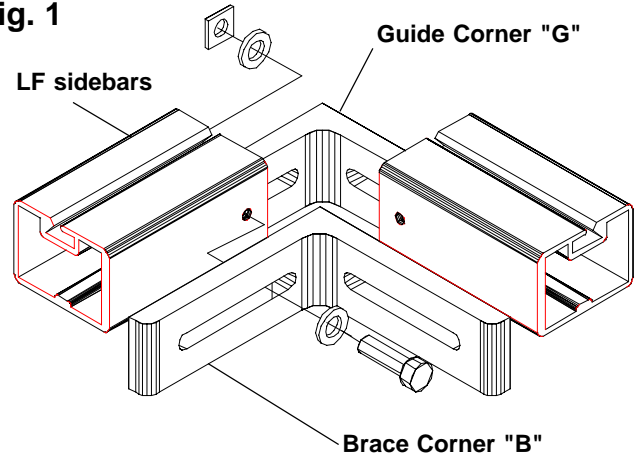
ASSEMBLY

CS-96

A. Assemble frame (see Fig. 1)

1. Lay 2 long sidebar pieces on your table, slot side up, holes facing toward you.
2. Slide a (G) - corner piece INTO each end of a long sidebar alongside the predrilled hole. Now place (B) - Corner piece along the OUTSIDE of the predrilled hole as in Fig. 1. Fasten together using a cap screw and washer, from the outside of the (B) - corner piece, through the sidebar and (G) - corner piece. Attach another washer and the special nut form the inside of the sidebar piece. Only finger tighten the bolts at this time.
3. Attach the other two sidebars to one of the previously assembled pieces by sliding the sidebar wall between the two corner pieces. Keep the holes of the new bars toward each other, and slot sides up. You now have a "U" shaped structure. Attach cap screws washers and nuts. Using a rule, measure the distance between the outside edge to the "G" corner piece and the end of the sidebar. Set this distance at 11/16". Tighten the cap screw with your wrench. Do this for all four cap screw ends on this end of the frame. This will assure that you are beginning with a "squared" frame.
4. With slot sides up, slide the remaining long sidebar with corners into the two open sidebars and attach with the remaining cap screws, washers and nuts. Using a ruler, check and adjust the corner-to-sidebar distance, and tighten all of the cap screws on this end of the frame. Be sure that all eight sidebar ends are the same distance from the ends of the corners. This assures that you will be attaching fabric to a "squared" frame.

Fig. 1



Note: Guide Corner "G" and Brace Corner "B" are identical. The only difference is where they are located. Guide Corner "G" slides inside tube. Brace Corner "B" to the inside of the frame.

B. Mount mesh (see Fig. 2)

1. Place frame on table - slot side up
2. Place foam riser pad inside frame, under mesh to support mesh level
3. Lay mesh on frame, fabric should extend 2 inches beyond side bar on all sides
4. Insert longer spline toward center of the screen
5. Holding spline down with one finger, fold mesh over the spline and towards the center of the screen
6. Pull fabric to remove slack after first spline is inserted
7. Insert shorter spline toward center of the screen over the first spline and the mesh
8. Centrally locate both of the splines along the length of each sidebar
(**Note:** For wire or coarse mesh (56 & larger) use larger spline only.)

Fig. 2

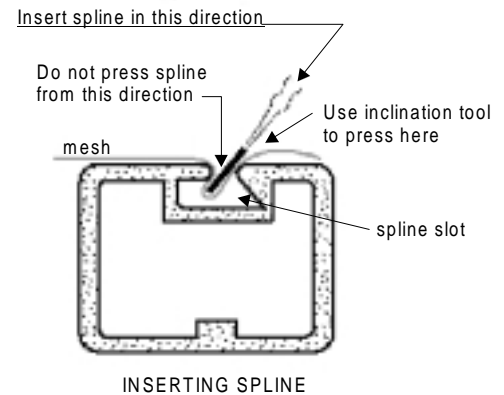
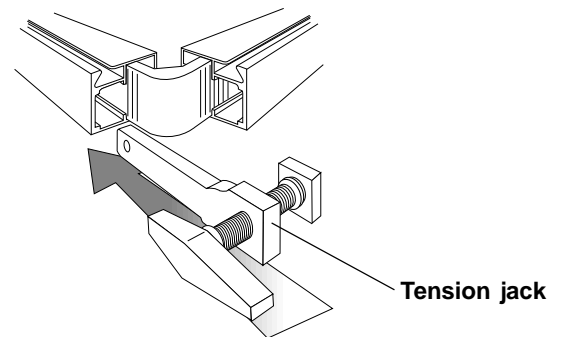


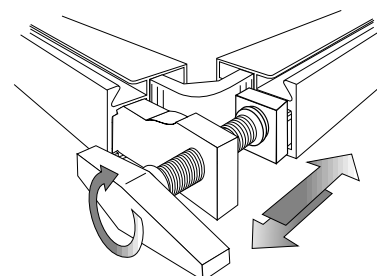
Fig. 3



C. Tension mesh

1. Expand frame with tension jacks (See Fig. 3 and Fig. 4) by inserting each jack into each end of the same channel and turning each jack knob exactly the same simultaneously.
2. Tighten cap screws
3. Tension fabric 3 directions
4. Read tension meter on the 4th (sidebar expansion)

Fig. 4



Note: Do not exceed 10 newtons mesh tension until the corners are softened. (See Step D on the next page).

Fig. 5

D. Corner Softening (see Fig. 5)

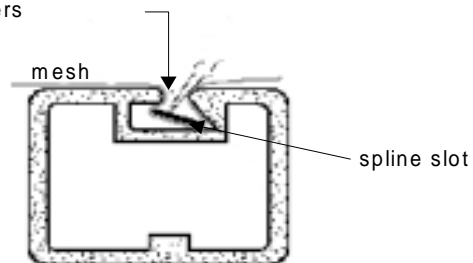
1. Once corner begins to tension, using insertion tool, press down on large spline and press corner area of mesh down simultaneously.
2. Repeat on all remaining corners to soften the mesh corners
3. Return to tensioning steps in part C.

E. Retensioning/ work hardening

1. You may retension at any time
2. New mesh will relax
3. Tension the mesh to 30 Newtons maximum.
4. Allow frame to set 1 1/2 - 2 hrs. allowing for full relaxation
5. Retension mesh to desired Newtons (40 Newtons maximum).
6. Working (printing mesh) will cause mesh to stretch/relax.
7. Retension, Step C, as this occurs.
8. Once fully work hardened mesh will no longer relax.

Note: Orange spline not shown
press black spline as indicated.

Press Here to soften
corners



CORNER SOFTENING