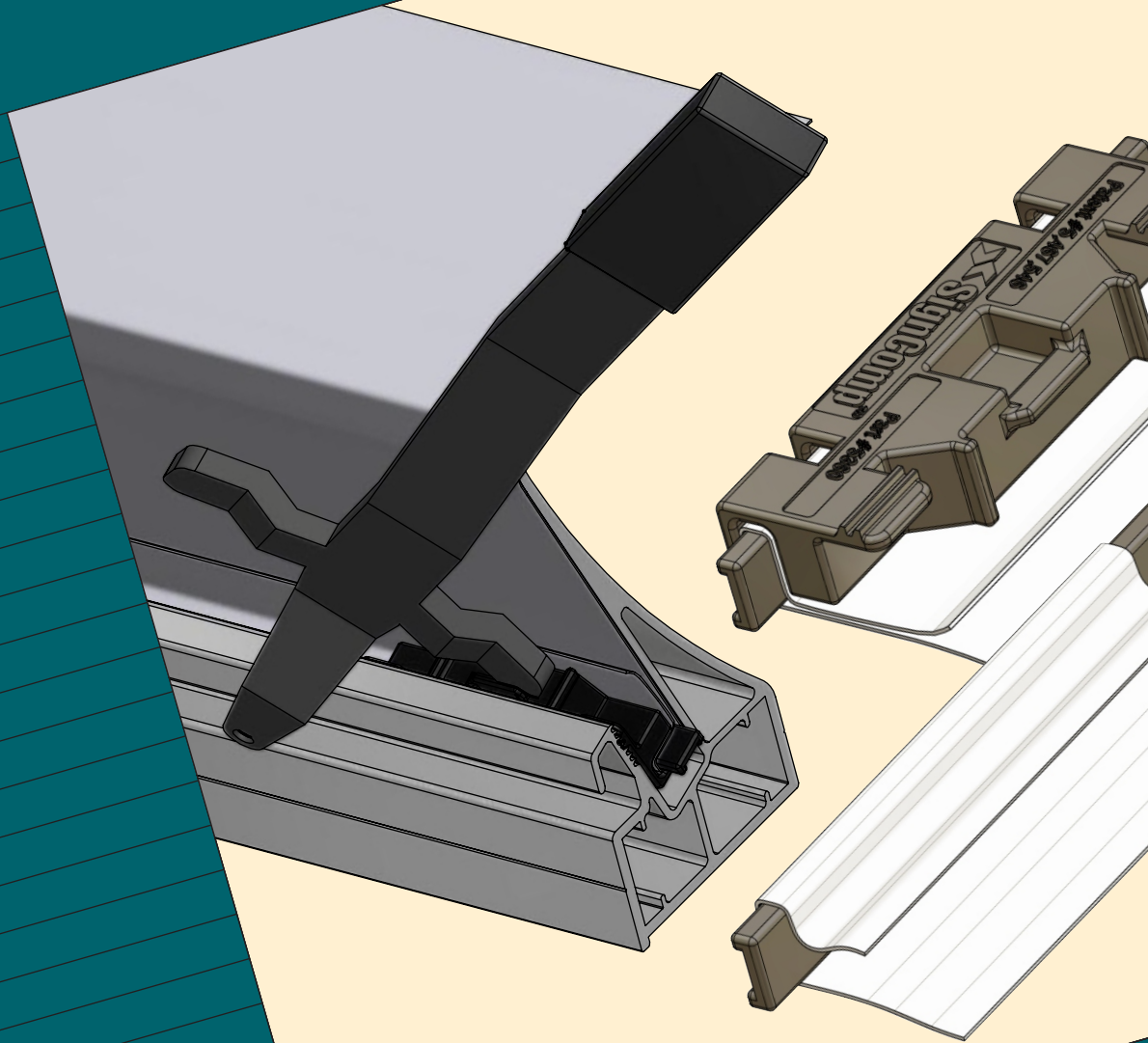




Tensioning Instructions

6" Flat Bleed Single Face Tension Body #2233





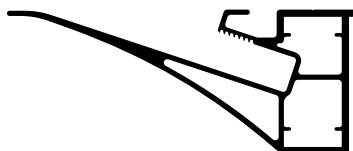
Tensioning System Instructions

Before beginning, thoroughly read all tensioning instructions.

Tools Required:

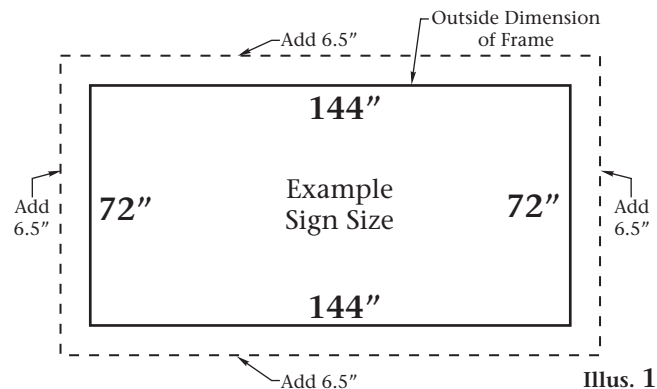
1. SignComp Tensioning Tool, part #5135.
2. Pen or marker.
3. Razor blade or utility knife.
4. Standard slotted screw driver.

6" Flat Bleed Single Face Tension Body
Part #2233



1 Flexible Sign Fabric Requirements

Add 6.5" of fabric to the outside dimensions on all four sides. (Adding a total of 13" to both the height and width of the assembled frame.) (Illus. 1)



Height = $72" + 6.5" + 6.5" = 85"$ Trim Size
Width = $144" + 6.5" + 6.5" = 157"$ Trim Size

2 Tension Clip Requirements

To determine the approximate number of Tension Clips required, measure the outside dimensions of the assembled sign frame. Place clips approximately 5" on center. (Illus. 2)



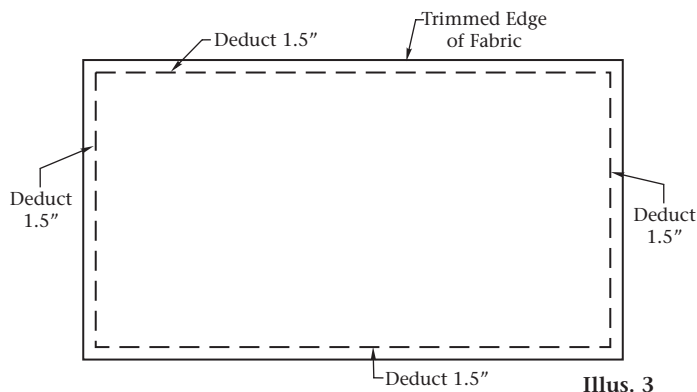
Outside perimeter inches = 432"
 $432" / 5" = 87$ Tension Clips

3 Basic Instructions

A. Trim the flexible sign fabric to size
(See Flexible Sign Fabric Requirements, Step 1)

B. Establish the Tension Clip Placement Line
Draw or drop the clip placement line 1-1/2" in from the edge of the trimmed to size fabric. (Illus. 3)

IMPORTANT - Address the fabric graphic side up. The clip placement line is located on the **graphic side** of the fabric.



It is recommended to check the stretch factor for large face applications (See Page 7 for directions on how to check the stretch.)

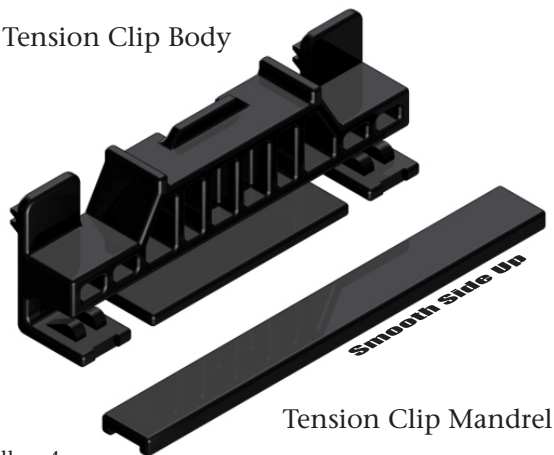


Tensioning System Instructions

C. Tension Clip Attachment

The Tension Clip is comprised of two components: The **Tension Clip Body** and the **Tension Clip Mandrel**. (Illus. 4)

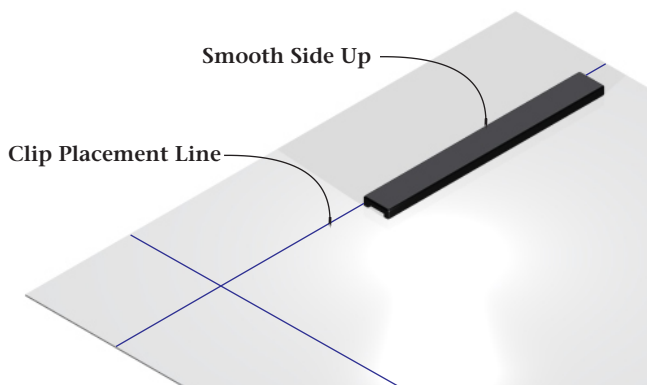
Tension Clip Body



Illus. 4

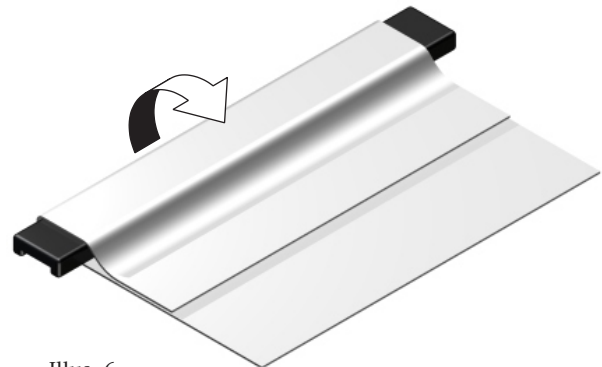
1.) Place the mandrel, **SMOOTH SIDE UP**, on the fabric just inside the clip placement line. (Illus. 5)

IMPORTANT - Tension Clips are attached to the fabric **GRAPHIC SIDE UP**.



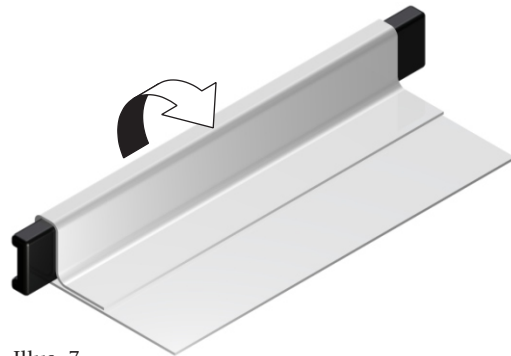
Illus. 5

2.) Fold the fabric over the mandrel. (Illus. 6)



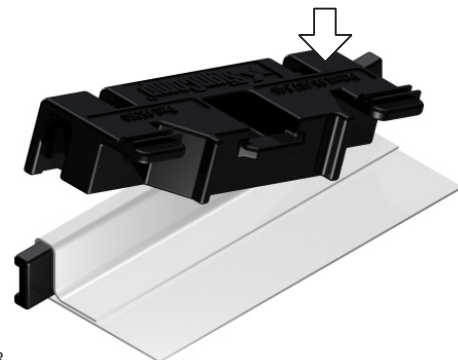
Illus. 6

3.) Rotate the fabric and mandrel forward by lifting the edge nearest you to stand the mandrel and fabric up on its edge. (Illus. 7)



Illus. 7

4.) With the SignComp logo upright, facing toward the folded mandrel, use firm thumb or palm pressure to drive one end of the clip body down on to the mandrel and fabric. (Illus. 8)

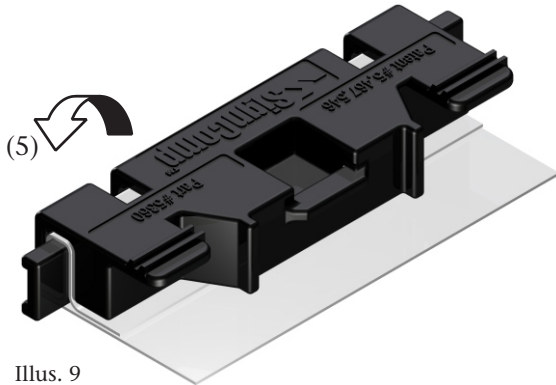


Illus. 8



Tensioning System Instructions

5.) Using firm thumb or palm pressure, drive the remaining end of the clip body down onto the mandrel and fabric. (Illus. 9)

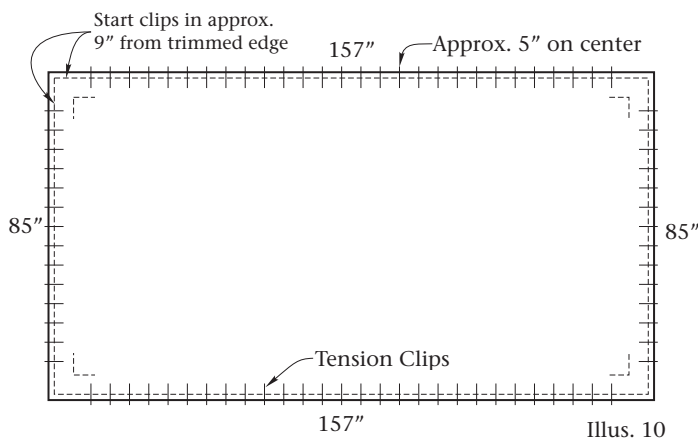


Illus. 9

Do not drive both ends of the clip body down onto the mandrel and fabric at the same time. Snap one end down then the other end.

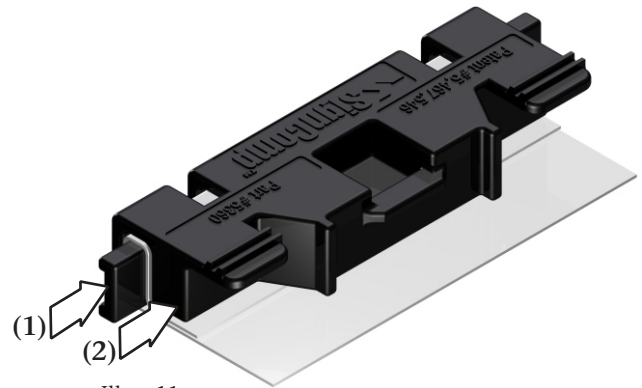
D. Tension Clip Placement (Illus. 10)

Place Tension Clips approximately 5" on center.



Illus. 10

Place Tension Clips on the clip line approximately 9" from the trimmed edge at each corner as shown above. If the clips are placed less than approximately 9" from the trimmed edge they will not engage into the tension frame.



Illus. 11

Tension Clip position may be adjusted with out removing the Tension Clip from the fabric. Slide the clip mandrel (1) in the direction you wish to move the Tension Clip. Follow this by sliding the Tension Clip Body (2). Repeat this procedure until position adjustment is achieved. (Illus.11)

The Tension Clip may be detached from the fabric by pulling the Tension Clip Body straight off and away from the fabric and Tension Clip Mandrel.

E. Tensioning

- 1.) Lay the assembled frame flat with the extruded Tension Channel facing up.
- 2.) Lay the fabric, with the Tension Clips attached, over the assembled frame graphic side up. (Illus.12)



Illus. 12



Tensioning System Instructions

E. Tensioning (Cont.)

3.) Insert the Tension Clips with one or two clicks into the Tension Channel of the assembled frame. Work your way around the frame perimeter until all clips have been inserted. Before applying tension, remove any major wrinkles with necessary adjustments. (Illus. 13 & 14)

When pulling on the fabric, do not pull directly on the fabric flap or Tension Clip. Doing so will cause the Tension Clip to pop off. When pulling on the face grasp the fold in between the Tension Clips and pull the face into place.



Illus. 13



Illus. 14

4.) Go Back around a second time and apply tension using the Tension Tool, exert a downward force onto each Tension Clip, pressing it into the tension frame an additional click or two. **Do not over tension.** Apply just enough tension to achieve a smooth, flat appearance (Illus. 15)



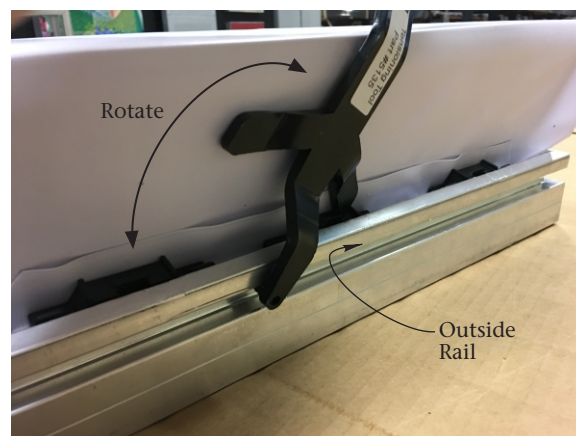
Illus. 15

F. Tension Tool Use

Hook the Tension Tool tip under the outside rail of the assembled frame. Slide the Tension Tool along the outside rail. With gentle, consistent pressure, force the Tension Clip into place by pressing the “wings” of the Tension Tool downward onto any portion of the Tension Clip.

By pushing or pulling the Tension Tool handle while the Tension Tool tip is inserted under the outside rail, leverage is gained to exert force down on to the Tension Clip. (Illus 16)

NOTE: Downward pressure may be applied to either end or the middle of the Tension Clip.



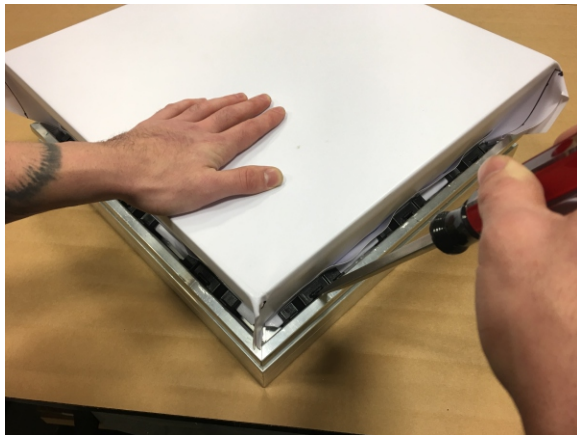
Illus. 16



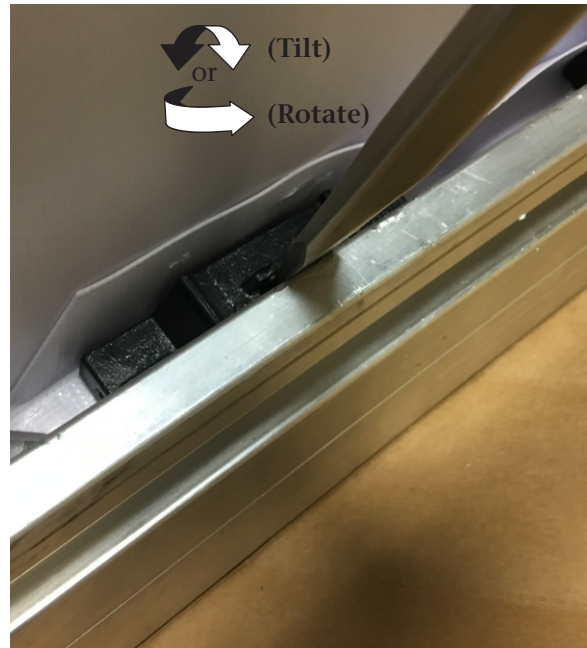
Tensioning System Instructions

G. Releasing the Tension and Removing the Tension Clip

A standard slotted screwdriver is used to release tension from the installed fabric. Insert the tip of the screwdriver into the recess located at the backside of the Tension Clip. Rotate or tilt the screwdriver to separate the Tension Clip teeth away from the extruded teeth within the frame. This will release the tension or allow the Tension Clip to be removed from the frame by prying or pulling the Tension Clip up & out. (Illus. 17 & 18)

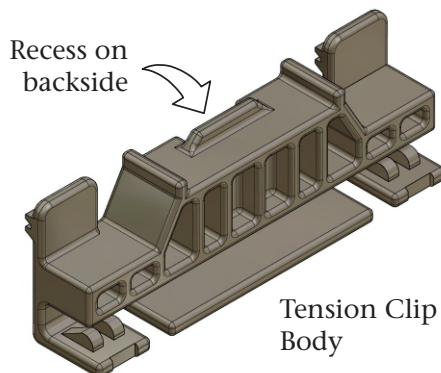


Illus. 17



Illus. 18

- 1.) Insert the screwdriver tip into the Tension Clip recess.
- 2.) Rotate or tilt the screwdriver to release the Tension Clip teeth away from the extruded frame.
- 3.) Remove Tension Clip by prying or pulling it out and up from the frame.





Tensioning System Instructions

Note: It is recommended to check the stretch factor for large face applications

Cut a 3" wide strip of material to the length of your trimmed-to-size face. (Illus. 19)

Draw a clip placement line in from each end 1-1/2" from the trimmed edge of the face material. (Illus. 19)

Attach one tension clip to each end of the face material on the clip placement line as shown. (Illus. 20)

Place the 3" strip of fabric with the tension clips attached across the frame and insert the tension clips into the frame. (Illus. 21)

Tension the 3" strip of face material in the frame as per Tensioning Instructions noted previously. If the tension clip will not engage with the frame, or the tension clips bottom out before the correct face tension is achieved remove and reposition the clips closer or further away from the graphics and re-stretch the 3" strip of face material. (Illus. 22)

Once the 3" strip is stretched out flat, remove the tension clip and fabric from the frame. Place a mark on the edge of the mandrel that is facing toward the outer trimmed edge of the fabric. Remove both tension clips and mandrels and measure from clip line to the new clip line. Add an additional 3" to the overall dimension of the clip line to clip line measurement. This will now become your new trim size of face.

Determining the proper Tension Clip placement before tensioning your face will make the installation of the face easier.

Hint: This test should be done in the direction of the larger of the two dimensions.



Illus. 19



Illus. 20



Illus. 21



Illus. 22



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