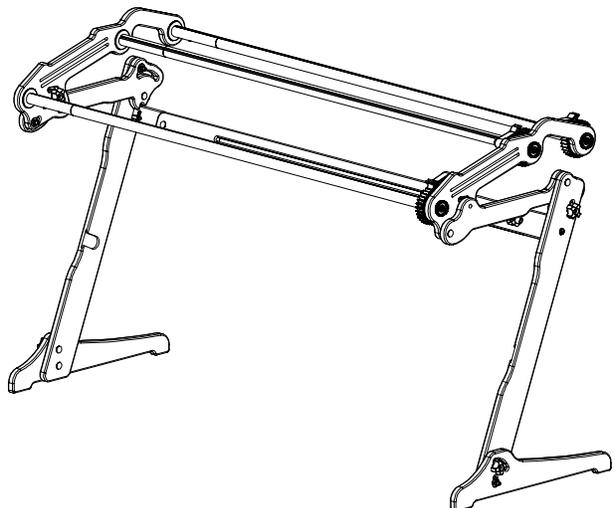


THE GRACE EZ3 FABRI-FAST QUILTING FRAME

TABLE OF CONTENTS

CARE, FINISHING AND STORAGE.....	2
WARRANTY.....	2
PARTS LIST.....	3-4
ASSEMBLY STEPS	
STEP 1: HARDWARE TO LEG ASSEMBLY.....	5
STEP 2: HARDWARE TO TILT HEAD.....	6
STEP 3: FEET TO LEG ASSEMBLY.....	7
STEP 4: TILT HEAD TO LEG ASSEMBLY.....	8
STEP 5: POLE MOUNT END TO TILT HEAD/LEG ASSEMBLY.....	9
STEP 6: HARDWARE TO BRACE ASSEMBLY.....	10
STEP 7: BRACE ASSEMBLY.....	10
STEP 8: BRACE TO RIGHT AND LEFT SIDE ASSEMBLY.....	11
STEP 9: RATCHET WHEELS AND RAIL ASSEMBLY.....	12
STEP 10: RAIL TO FRAME ASSEMBLY.....	13
STEP 11: RATCHET STOP ASSEMBLY.....	14
TILTING YOUR EZ3 FABRI-FAST.....	15
FOLDING AND STORING YOUR EZ3 FABRI-FAST.....	16
QUILTING INSTRUCTIONS AND TIPS.....	17
FABRIC INSTALLATION METHOD #1: MAKING AND USING CLOTH LEADERS.....	17
FABRIC INSTALLATION METHOD #2: FABRIC DIRECT TO POLES.....	22
MAKING AND USING THE SIDE TENSION FABRIC.....	23
TROUBLE SHOOTING TIPS.....	24
SPECIAL TIPS FOR TYING QUILTS.....	25



Caring for Your EZ3™ Fabri-Fast Quilting Frame

Your EZ3™ Fabri-Fast Quilting Frame is a sturdy frame that can be used finished or unfinished. For extra protection, or to give it a finished look, you may seal, stain and/or finish the frame using a number of different applications. This is best done BEFORE YOU ASSEMBLE your frame.

To seal the wood, we recommend an application of tung oil that will help preserve the wood and will help to prevent warping. To add a certain color to your frame, you may use a Danish Oil finish. We recommend the Deft™ or Watco™ brands. Some prefer to use a urethane coat to add a more glossy furniture like finish.

Test stain on an inconspicuous place. Many different finishes and/or stains may be suitable for sealing and beautifying your frame. You may want to consult your local paint retailer for finishes that are easy to apply and dry hard—not oily.

Use and Storage Tips

--Store frame in a dry place. If not assembled, store with braces in vertical position. (This will prevent floor moisture from seeping into the Braces).

--Do not carry the assembled frame by the quilting poles. Hold the braces instead.

--Do not drop the frame or let it twist out of square.

Five-Year Limited Warranty

GraceWood, Inc. will replace or repair, at our choosing, any part of the Grace EZ3™ Fabri-Fast Quilting Frame, which may be shown to be defective. This warranty does not cover parts damaged through misuse, improper storage, improper assembly, loss, natural events and willful or accidental destruction. Defective parts may be returned only with a valid RMA# which may be obtained by calling GraceWood, Inc. at **1-800-264-0644**.

Warranty card must be filled out, stamped and mailed to the address on the card within 30 days of purchase.

Contact Information

For Technical Support or any other correspondence concerning your EZ3™ Fabri-Fast Quilting Frame, call 1-800-264-0644 ~

OR ~ E-mail: robin@graceframe.com ~ OR ~ Fax: (801) 908-8888 ~

OR ~ Write to:

The Grace Company

P.O. Box 27823

Salt Lake City, UT 84127

For details on accessories and other information, see us online at www.graceframe.com

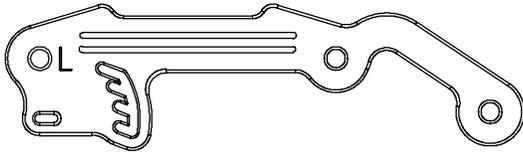
For shipping of materials to The Grace Company address package (postage prepaid) to: **The Grace Company, 2225 South 3200 West, SLC, UT 84119**. Materials may be returned only with a valid RMA# or Returned Merchandise Authorization Number which may be obtained by calling GraceWood, Inc. at **1-800-264-0664**.

If you call after business hours (M-F 8:00 a.m. – 5 p.m., MST) be assured that your call will be returned the next business day if you leave a message. Please report any errors in these instructions or make constructive comments to the following: jaren@graceframe.com

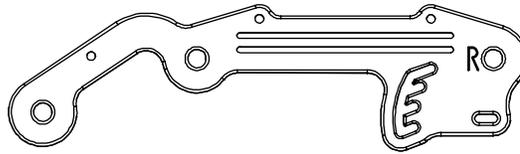
Grace Quilting Frames and Hoops: Innovation and Evolution

Grace Quilting Systems have been developed over the past two decades with several original design innovations. Additionally, because feedback from many of the thousands of quilters who have purchased and use the GraceFrame™, we have been able to make a frame that will truly enhance the entire process of hand quilting from beginning to end. If you have any suggestions that will help us to improve our product or service, let us know, using one of the above contact methods.

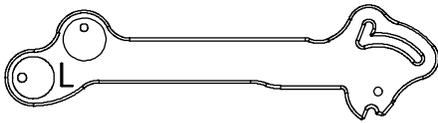
EZ3 Fabri-Fast Parts List



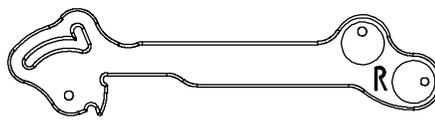
1-Left Pole Mount End



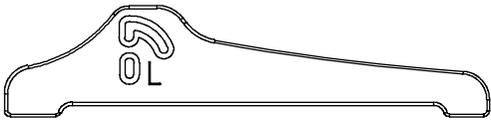
1-Right Pole Mount End



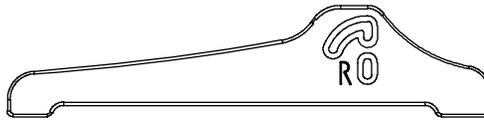
1-Left Tilt Head



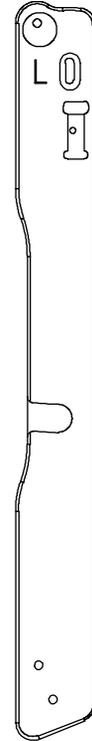
1-Right Tilt Head



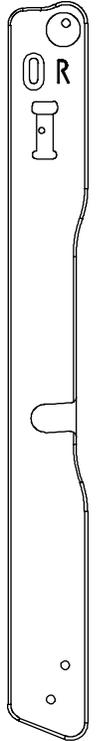
1-Left Foot



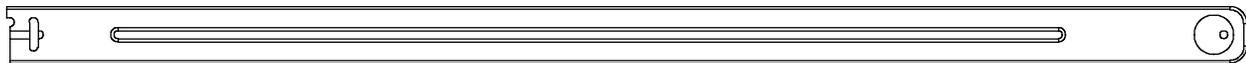
1-Right Foot



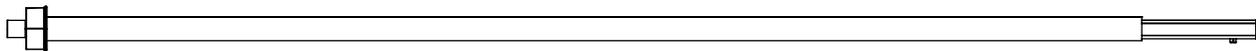
1-Left Leg



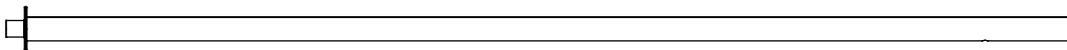
1-Right Leg



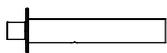
2-Brace



3-48" Rail



3-46" Rail



3-6" Rail



3-Ratchet Wheel



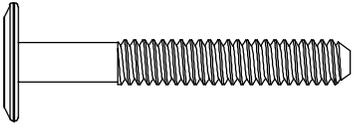
3-Ratchet Stop



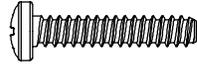
6-End Cap Shoulder

3-90" Fabric Retaining Tubing

EZ3 Fabri-Fast Hardware



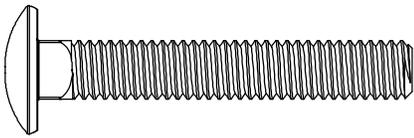
2-1/4" X 45mm
Connector Bolt



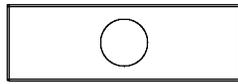
6-7/8" Screw



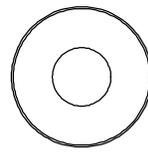
1-4mm Allen Wrench



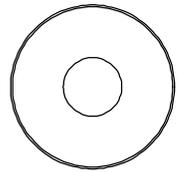
14-5/16" X 2"
Carriage Bolt



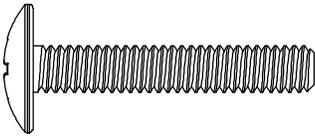
2-1/4" Rectangle
Nut



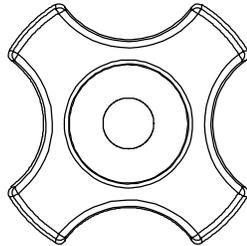
14-1/4" Flat
Washer



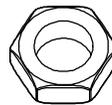
14-5/16" Flat
Washer



3-1/4" X 1 1/2"
Truss Bolt



8-5/16" Plastic
Knob



14-5/16" Jamb
Nut



6-5/16" Nylock
Nut

Quilting With the Grace EZ3™ Fabri-Fast Quilting Frame

Before You Begin

- Using the parts list as a reference, take the parts out of the box and make sure that you have them all. (If there is something missing or broken, contact The Grace Company at 1-800-264-0644. We will promptly ship any needed item.)

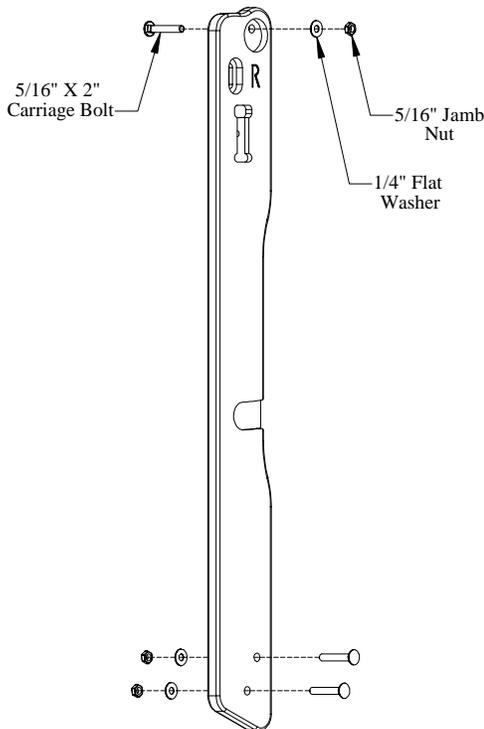
Tools Needed

- To assemble the frame you will need a few common tools. Once the frame is assembled, no tools will be needed for the use of the frame.
 1. One 1/2" wrench
 2. One 7/16" wrench (A combination or socket wrench will also work.)
 3. Phillips Head Screw Driver
 4. Allen Wrench (provided with hardware)

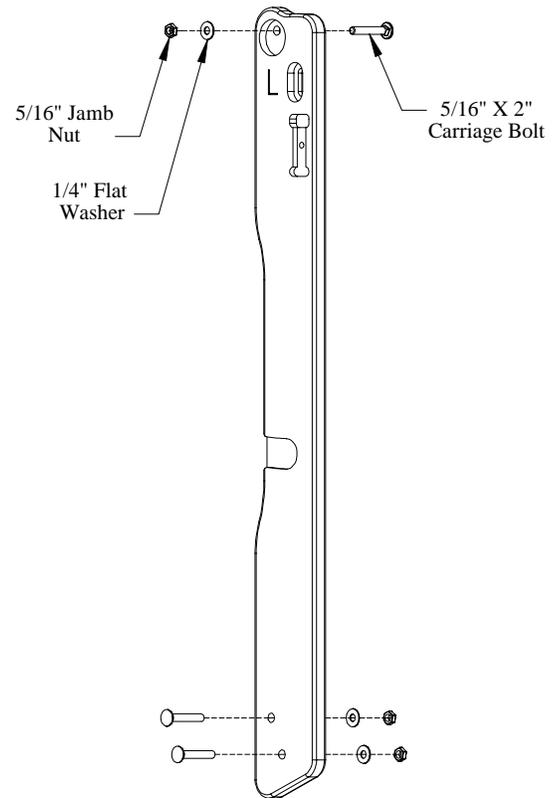
Note: To help you distinguish wood parts, all Left and Right Side parts are marked with an "L" and "R" respectively, engraved into the wood on the inside of the part.

Step 1: Hardware to Leg Assembly

Parts Needed: Right and Left Diagonal Stands
 6 - 5/16" x 2" Carriage Bolts
 6 - Jamb Nuts
 6 - 1/4" Smaller Flat Washers



Right Leg Assembly
Inside View



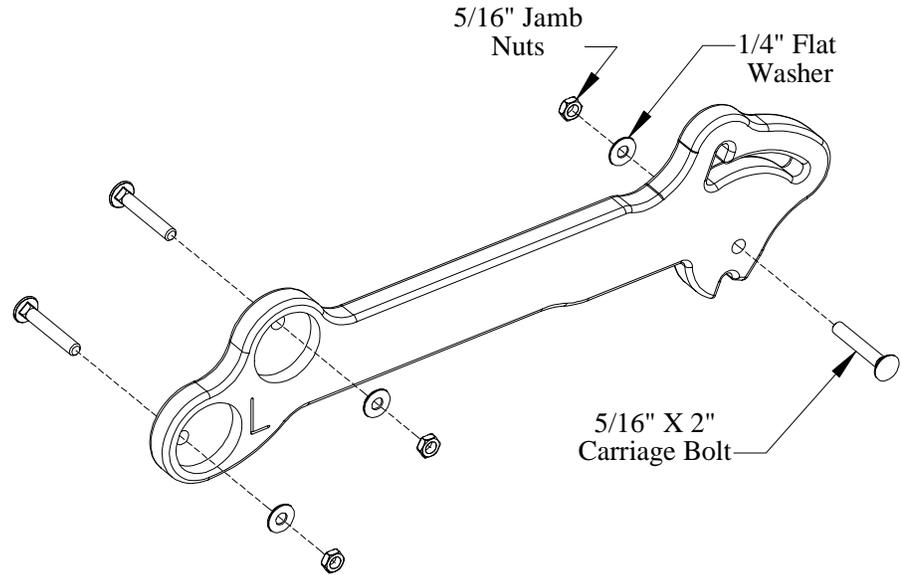
Left Leg Assembly
Inside View

- Note the direction that the carriage bolt goes through each part.
- Tighten the jamb nuts on the carriage bolt to pull the square part of the bolt into the wood until the bolt is completely seated into the wood part.
- **NOTE!** Failing to tighten the Jamb nuts in these initial steps will lead to assembly problems in further steps. Be sure to completely tighten each jamb nut as instructed!

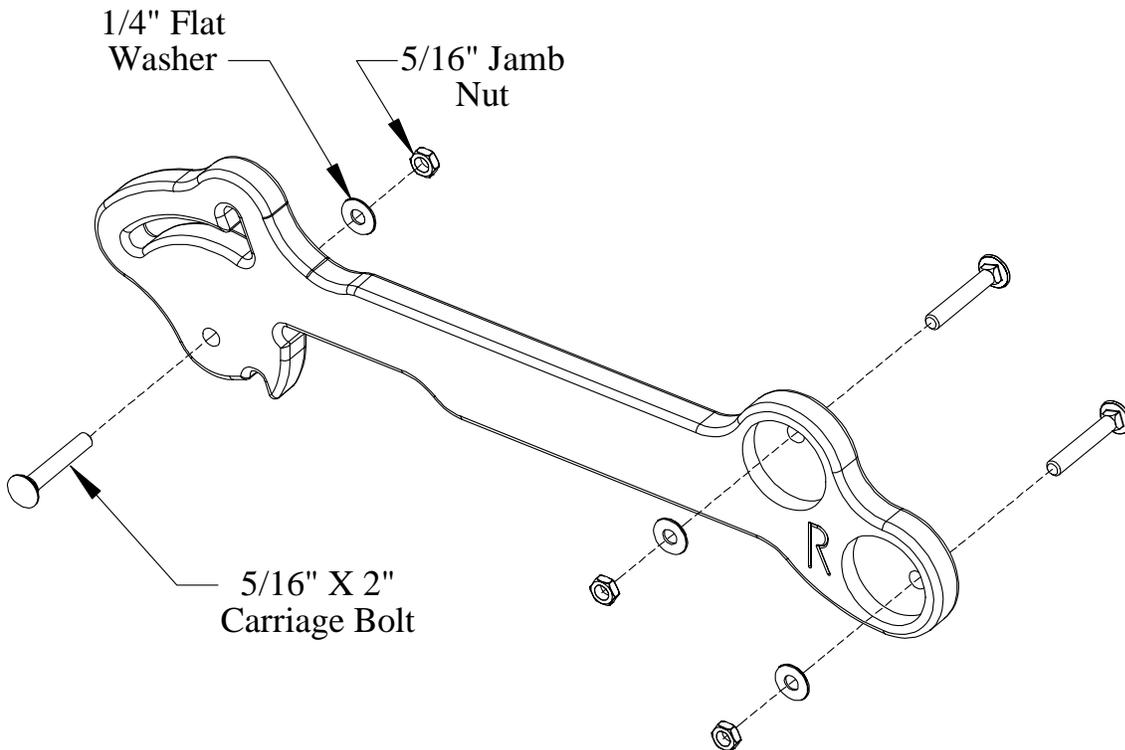
Step 2: Hardware to Tilt Head

Parts Needed: Right and Left Tilt Heads
 6 - 5/16" x 2" Carriage Bolts
 6 - 5/16" Jamb Nuts
 6 - 1/4" Flat Washers

- Note the direction of the carriage bolts in relation to the Tilt Heads.
- Position the carriage bolts through both Tilt Heads as shown in drawings. Tighten the jamb nuts over the end of carriage bolts until the square part of the carriage bolt is completely seated into the wood.



Left Tilt Head Assembly
 Inside View



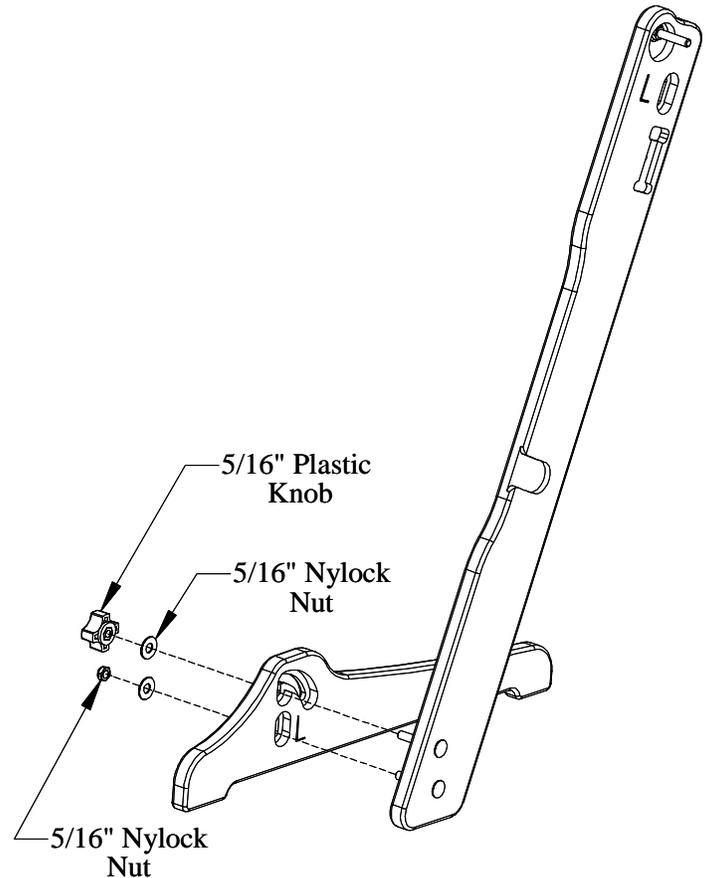
Right Tilt Head Assembly
 Inside View

Step 3: Feet to Leg Assembly

Parts Needed: Right and Left Feet

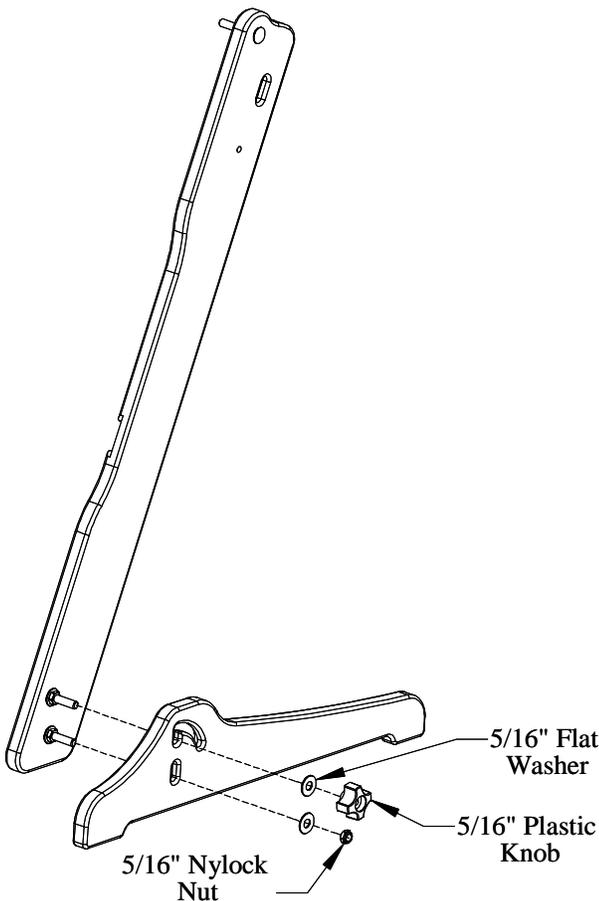
- 1 – Right Leg (w/ Hardware Installed)
- 1 – Left Leg (w/ Hardware Installed)
- 2 -- 5/16" Plastic Knobs
- 2 – 5/16" Nylock Nuts
- 4 -- 5/16" Large Flat Washers

- As shown in drawing, position carriage bolt ends through the holes in each foot.
- For ease of tightening, thread flat washers and Nylock nuts onto the bottom carriage bolts first.
- ****The nylon side of nylon lock nuts faces out when threading onto the Bolt end. ****
- ****NOTE! Leave all nylon lock nuts loose enough to slide the joint. ****
- Next, thread the washers and plastic knobs on the top carriage bolts.



Left Side of Frame
Front Inside View

- **REMINDER!** The Nylock Nuts look just like Jamb nuts except for the thin white nylon ring inside. This keeps the nut from eventually working itself off of the bolt. When tightening Nylock Nuts at moveable points like this one, *it is important not to over tighten!* Tighten the Nylock Nut just enough to hold the washer against the wood, but loose enough to allow the washer to turn with your finger.



Right Side of Frame
Front Outside View

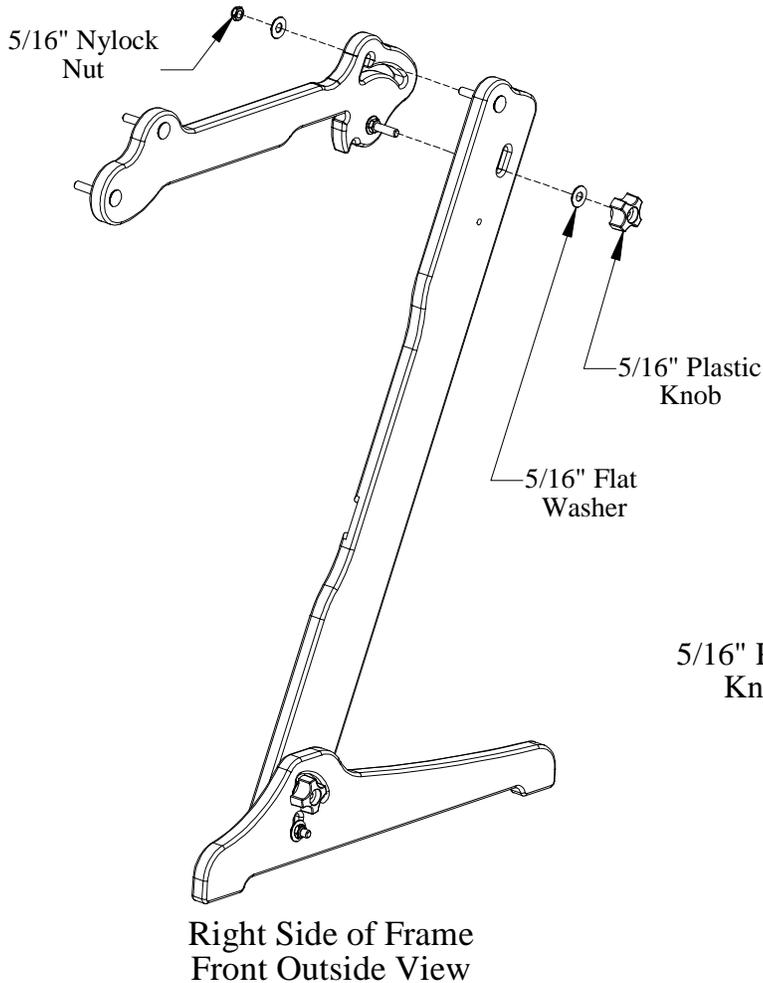
Step 4: Tilt Head to Legs Assembly

Parts Needed: Right and Left Pivot Sections (w/ Hardware Installed)

2 – 5/16" Plastic Knobs

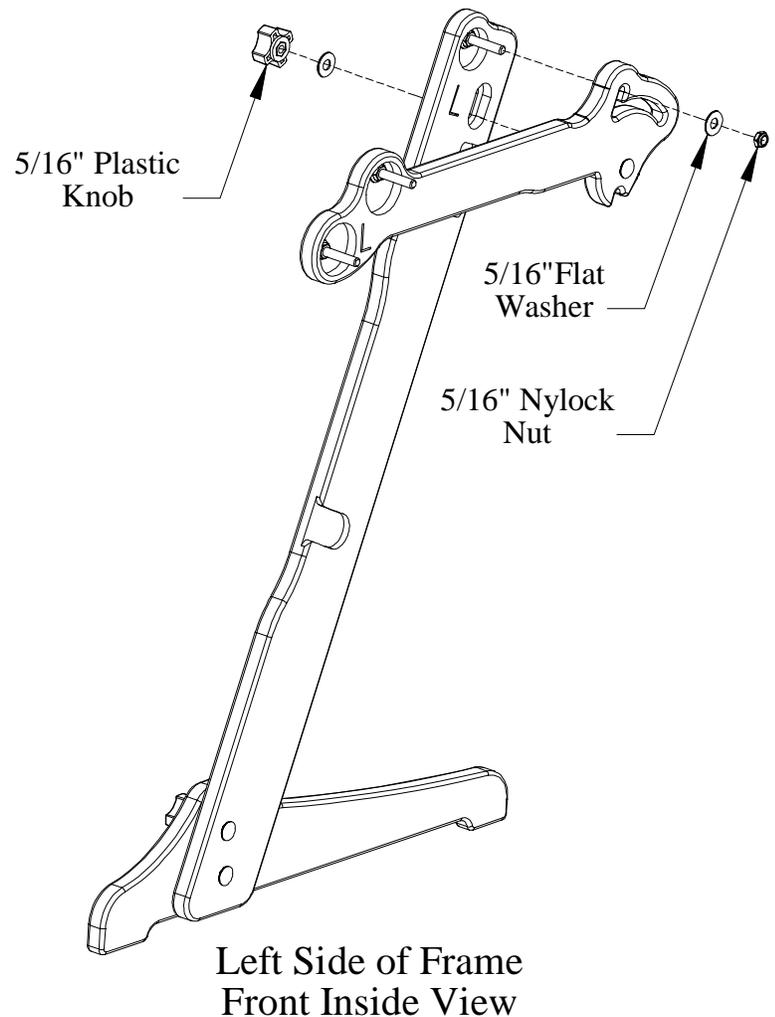
2 – 5/16" Nylock Nuts

4 - 5/16" Large Flat Washers



➤ Align the carriage bolts that are already installed on the tilt heads and the legs, and place them through the holes as pictured.

➤ Notice that the flat washer and plastic knobs are threaded onto the end of the lower carriage bolt toward the outside of the frame. The washer and nylon lock nut are loosely threaded onto the upper carriage bolt toward the inside of the frame. ****Be sure to not tighten the Nylock Nuts all the way****



Step 5: Pole Mount End to Tilt Head/Leg Assembly

Parts Needed: Right and Left Pole Mount Ends

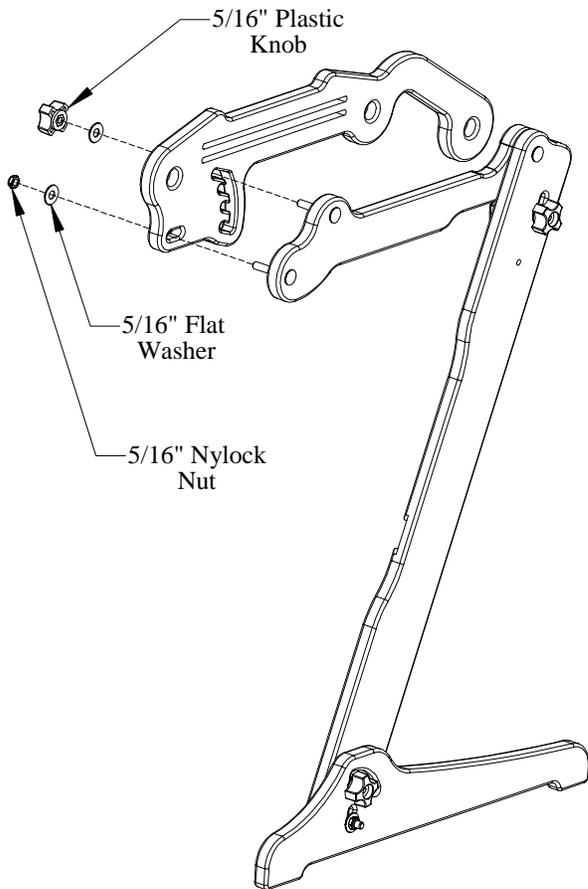
4 – 5/16" Flat Washers

2 – 5/16" Black Plastic Knobs

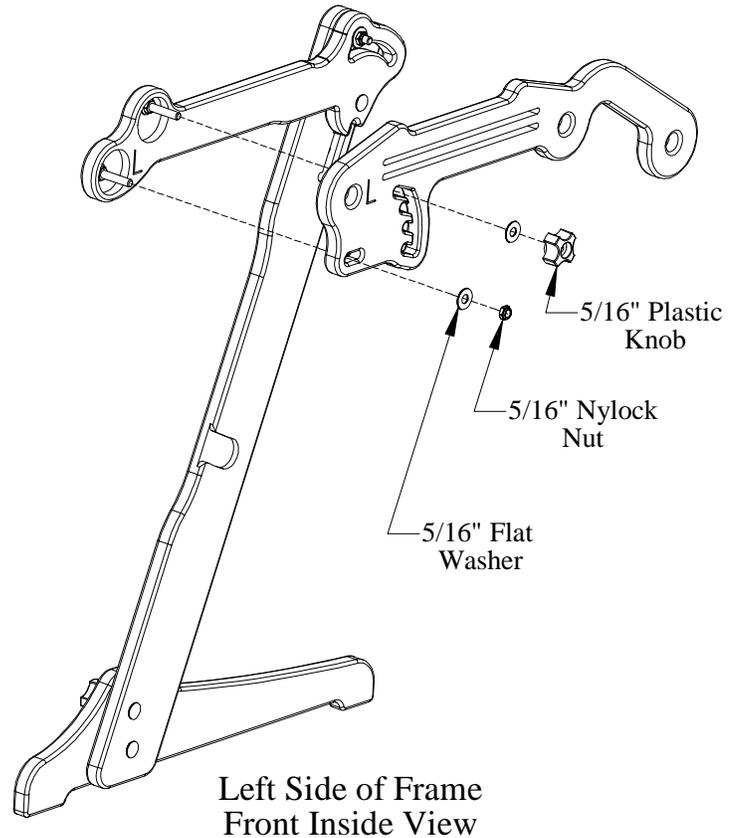
2 – 5/16" Nylock Nuts

- Fasten the Left Pole Mount End to the Tilt Head/Leg Assembly by placing the two carriage bolts through the Pole Mount End (as shown in picture) on each side. Then place the flat washer over the end and thread on the plastic knob and the Nylock Nut. Do this one side at a time.

- **NOTE! Do not over-tighten Lock Nuts! The washer must be able to spin freely.**



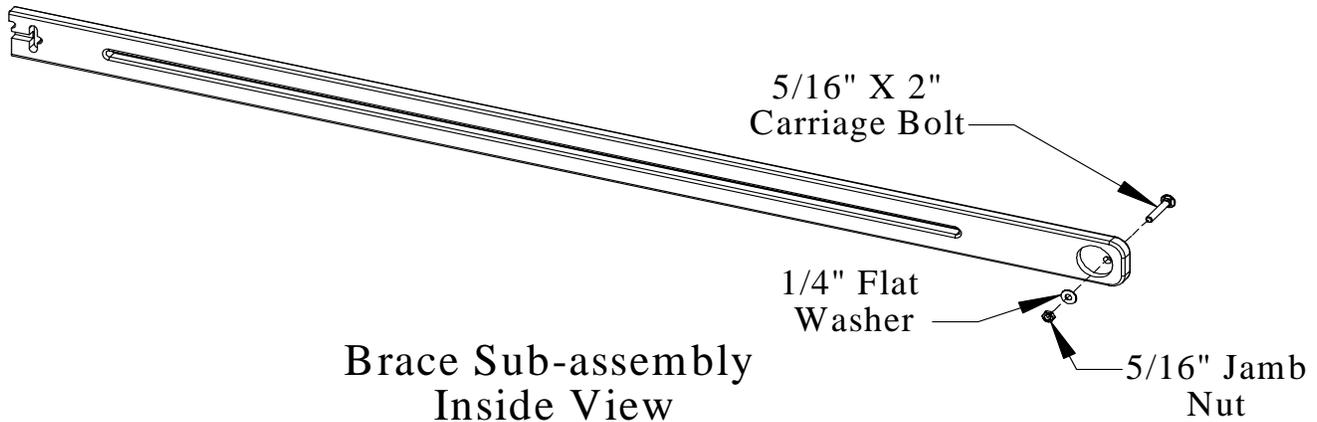
Right Side of Frame
Front Outside View



Left Side of Frame
Front Inside View

Step 6: Hardware to Brace Assembly

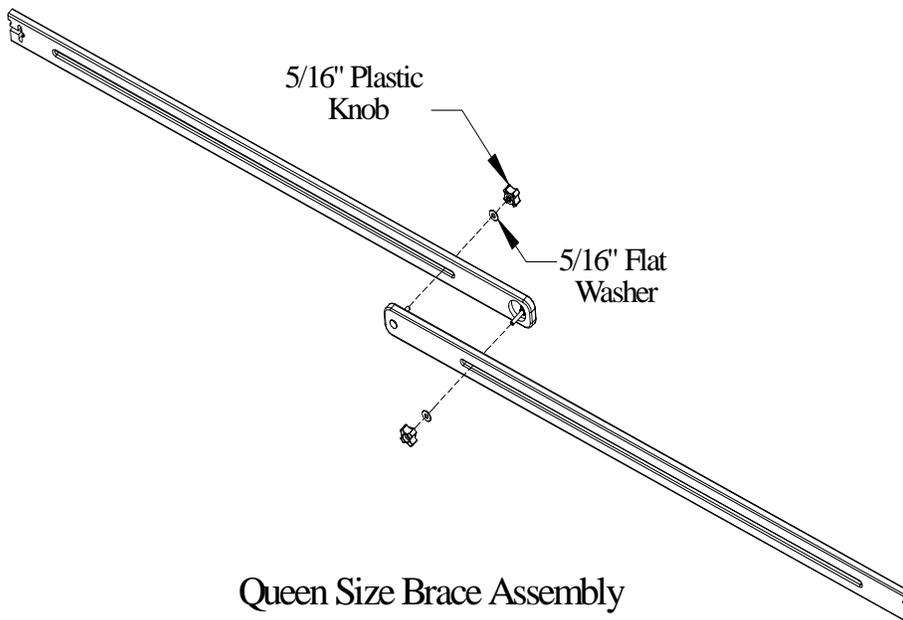
Parts Needed: 2 - Braces
 2 - 5/16" x 2" Carriage Bolts
 2 - 1/4" Flat Washers
 2 - 5/16" Jamb Nuts



- Thread one 5/16"x 2" Carriage bolt through the end of each brace section as pictured.
- Place the 1/4" Washers and 5/16" Jamb Nuts onto each Carriage Bolt as pictured. Tighten the jamb nut all the way so that the square part on the carriage bolt is drawn completely into the wood.

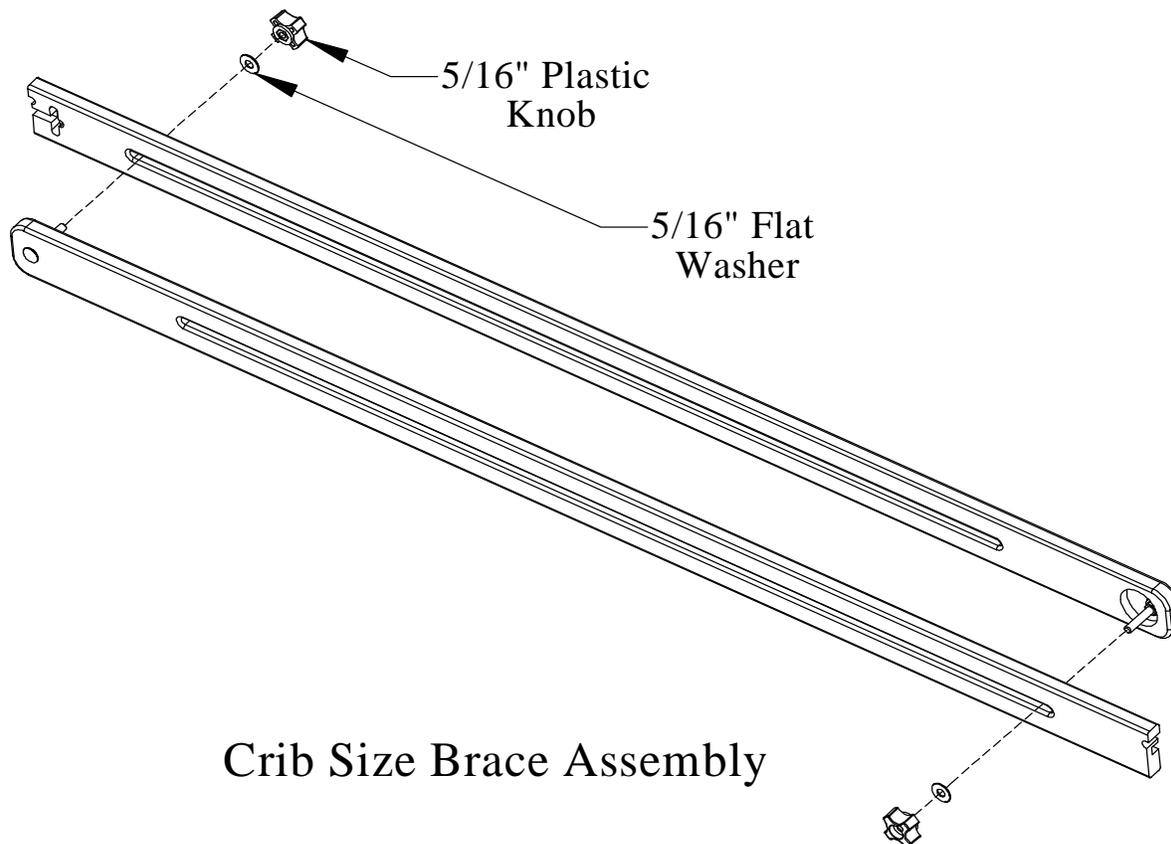
Step 7: Brace Assembly

Parts Needed: 2 – Braces with
 previously installed hardware
 2 – 5/16" Flat Washers
 2 – 5/16" Plastic Knobs



- Align the Braces as shown in the picture so that the protruding carriage bolt goes through the long slots in the braces.
- NOTE! Make sure that the keyed part of the brace ends are either both on the top side or both on the bottom side.
- Place the 5/16" Flat Washers over the bolt and thread on the black plastic knobs for each side of the brace, as pictured.

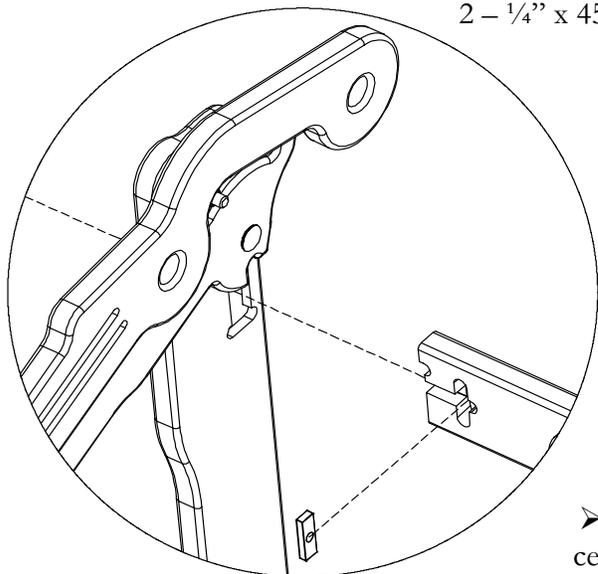
- **NOTE!** No additional pieces are needed to extend the brace from the Crib Size to the Queen Size. You can Lengthen or Shorten the brace by loosening the Black plastic knob and sliding the Braces to the desired position.



Crib Size Brace Assembly

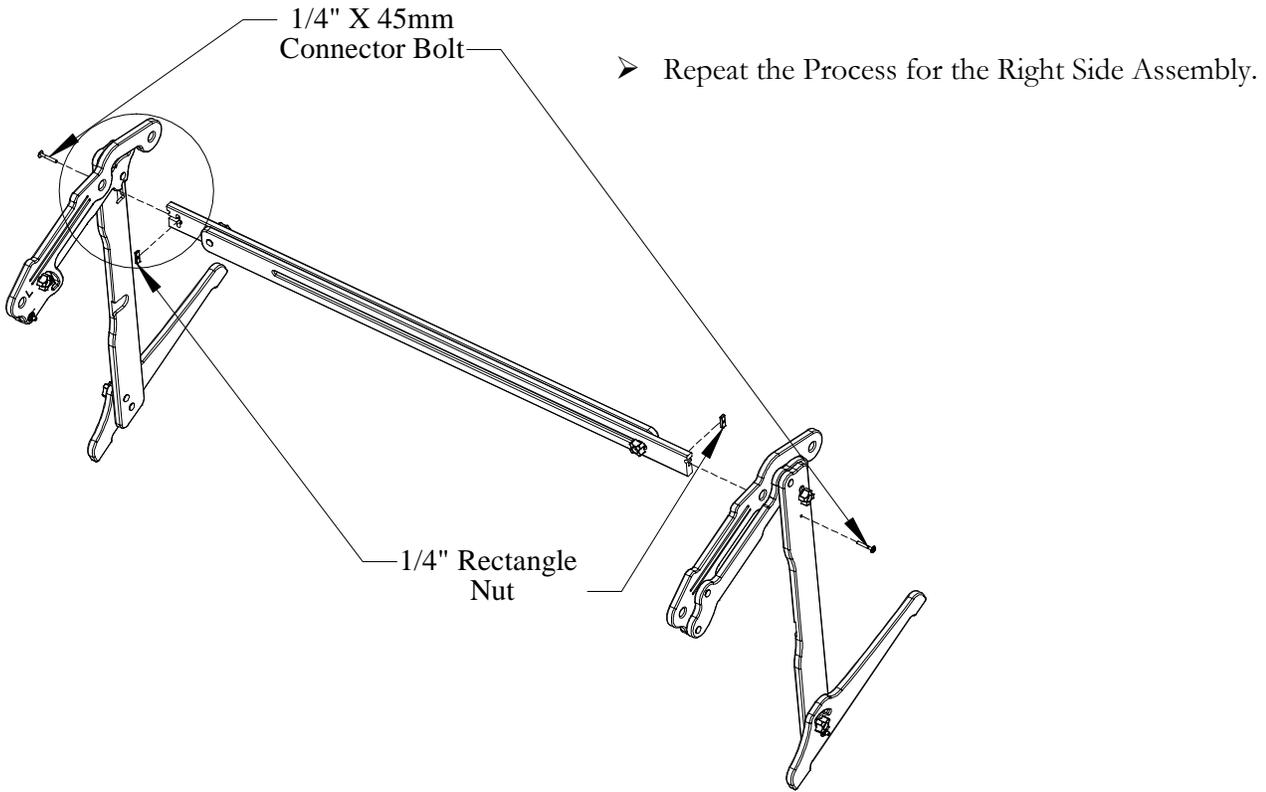
Step 8: Brace to Right and Left Side Assembly

Parts Needed: 2 – Assemblies for Right and Left Sides
 Completed brace Assembly from Step #7
 2 – 1/4" Rectangle Nuts
 2 – 1/4" x 45mm Connector Bolts



- Line the keyed brace up with the keyed hole on the Leg of one of the Left Side Assembly.
- **NOTE!** Standing at the front of the frame the Brace attached to the Left Side should be the rear of the two pieces included in the Brace Assembly. See below picture.
- **NOTE!** The Key should be on top!
- Place the Rectangle Nut Into the slot as pictured to the right.
- Slide the 1/4" x 45mm Connector Bolt into the hole located in the center of the keyed slot, and start threading it into the rectangle nut.

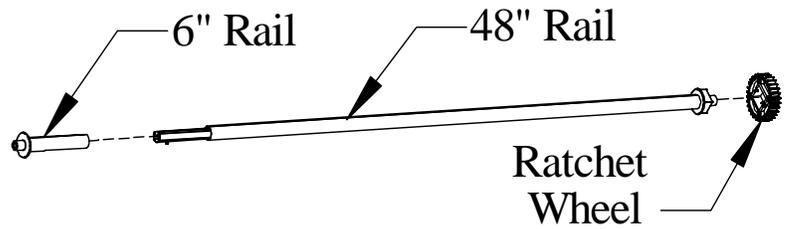
- Using your Alan Wrench Completely tighten the bolt.



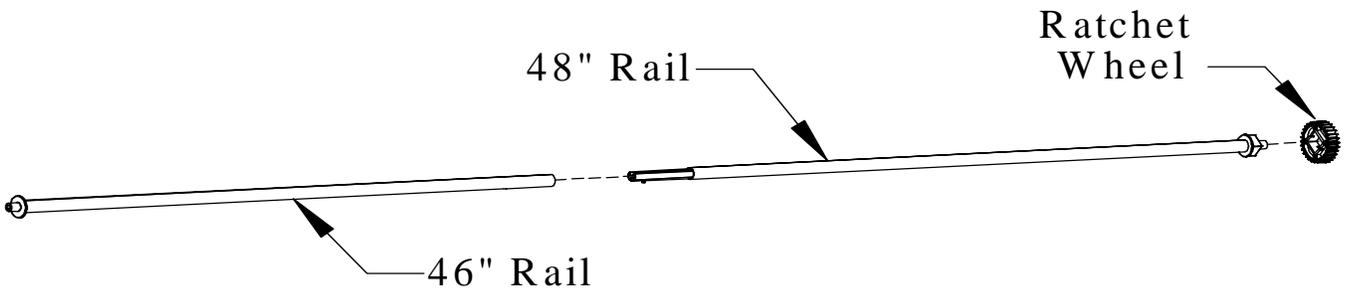
Step 9: Ratchet Wheels and Rail Assembly

- Parts Needed: 3 - Ratchet Wheels
 3 - 6" Rails (Crib)
 3 - 48" Rails (Crib/Queen)
 3 - 46" Rails (Queen)

- Depending on the size of your quilt you will choose the configuration of the rails, See both pictures on this page. Choose your size and then proceed from there.
- Attach the Rails End for end, sliding the tapered end of the 48" Rail into the shorter rail.
- Place the Ratchet Wheels onto the end of each 48" rail, as shown in the drawing.

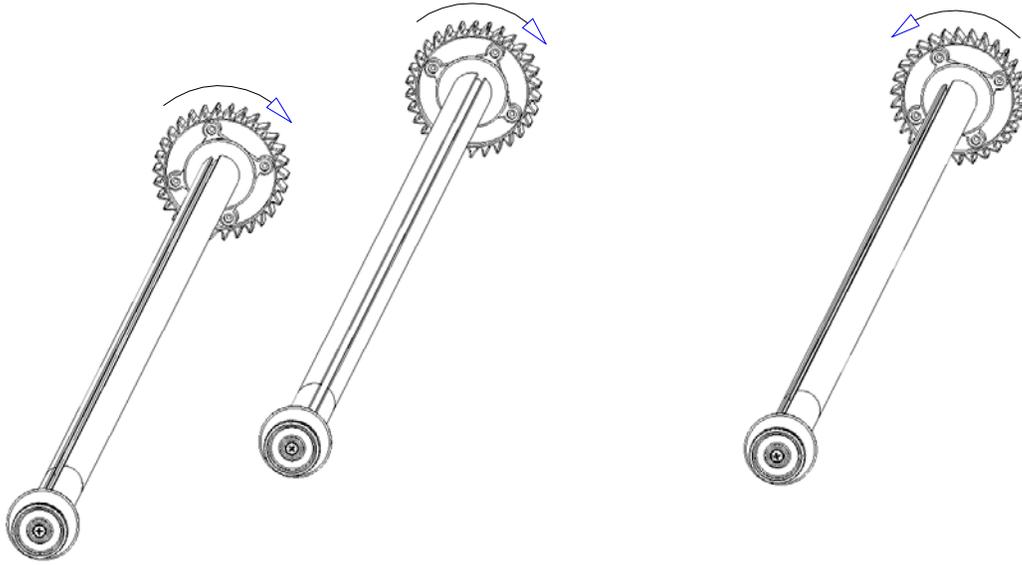


Crib Rail Assembly



Queen Rail Assembly

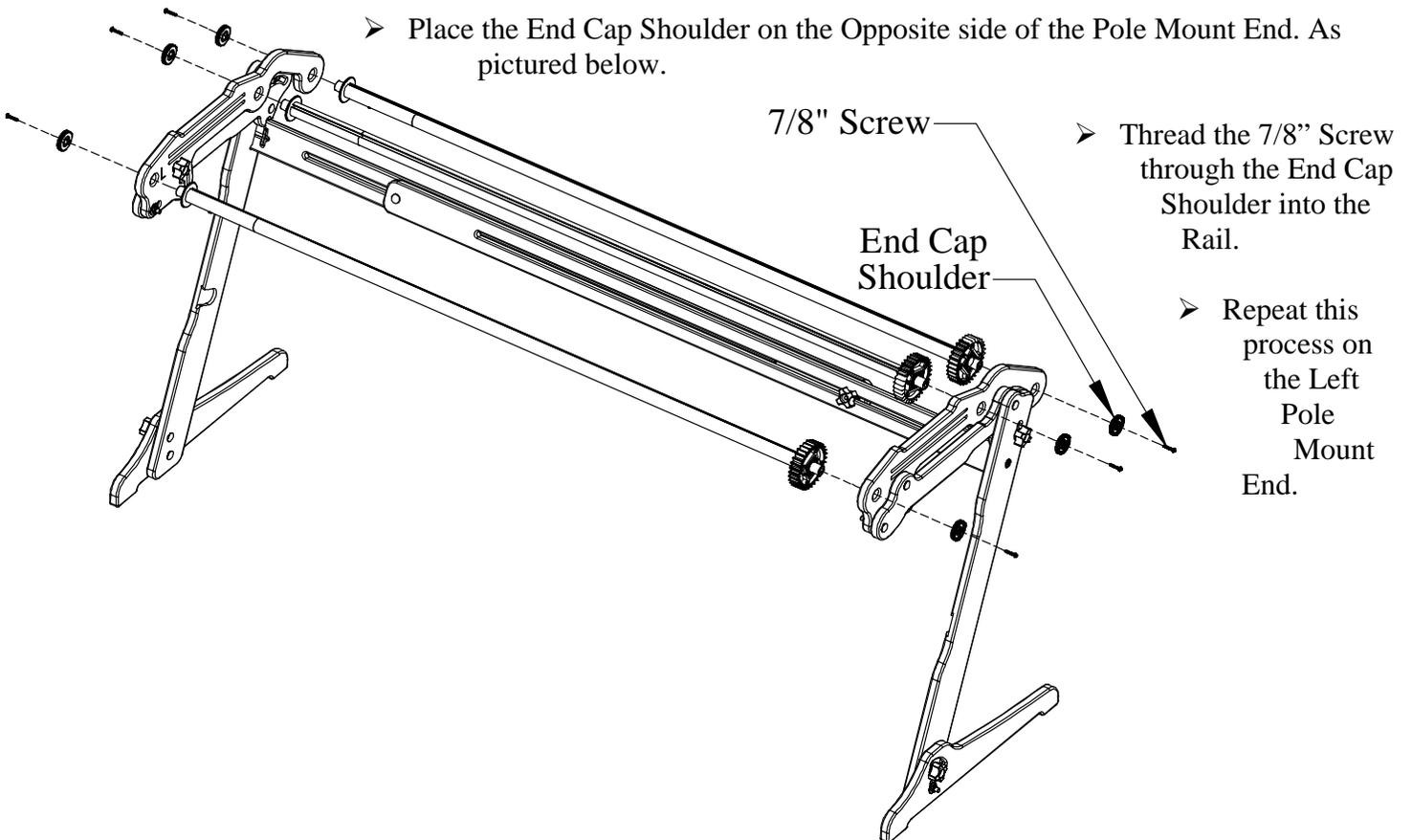
- Note the direction of the ratchet wheel teeth: Be sure they are going the right direction. (Use the Picture below as a guide-Front Rail is on the Right)



Step 10: Rail to Frame Assembly

- Parts Needed: 3 – Previously Assembled Rails
6 – End Cap Shoulders
6 – 7/8" Screws

- Position the Rail Ends (on ratchet wheel end) through the three holes in the Right Pole Mount End, as shown in drawing.

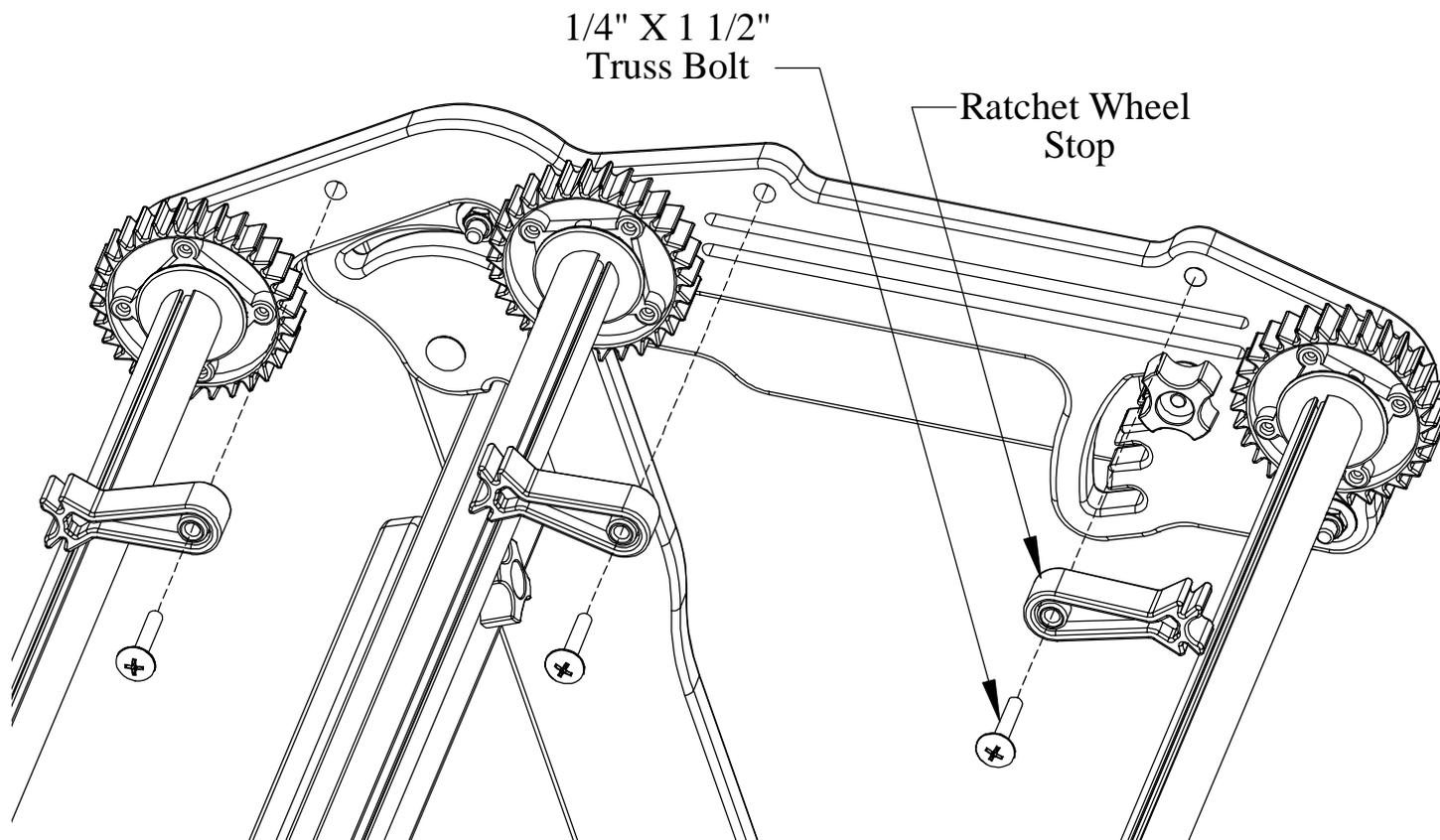


Step 11: Ratchet Stop Assembly

Parts Needed: 3 – Ratchet Stops

3 – 1/4" x 1 1/2" Truss Bolts

- Thread the Truss Bolt through the Ratchet Stops into the holes on the Pole Mount End as pictured below.
- **NOTE! FINGER TIGHTEN ONLY!!!!**



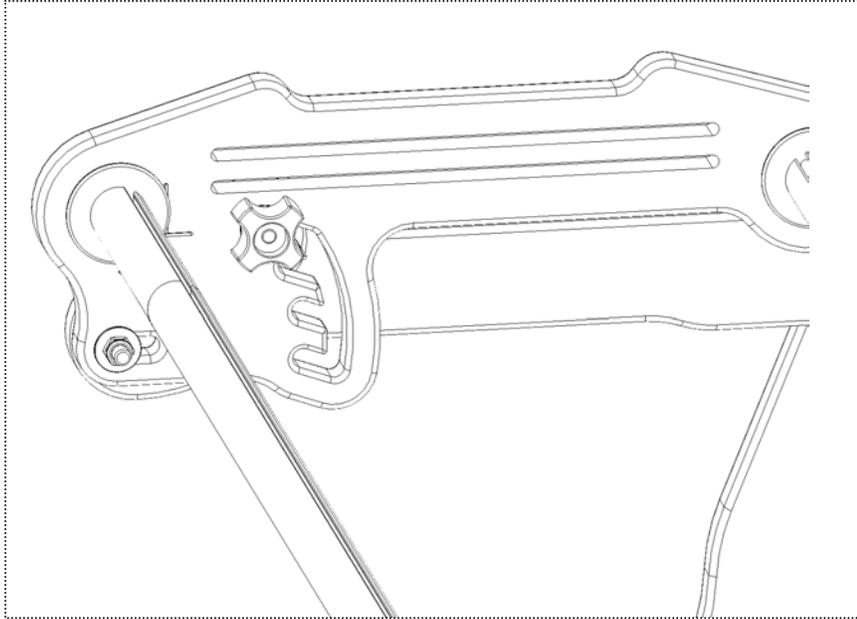
You Are Now Finished with The Assembly Of Your EZ3 Fabri-Fast Quilting Frame!!!

Tilting the EZ3 Fabri-Fast

The Following is done best one side at a time.

Step 1: Loosen Knob inside front on both ends of the Frame. (As seen in picture below)

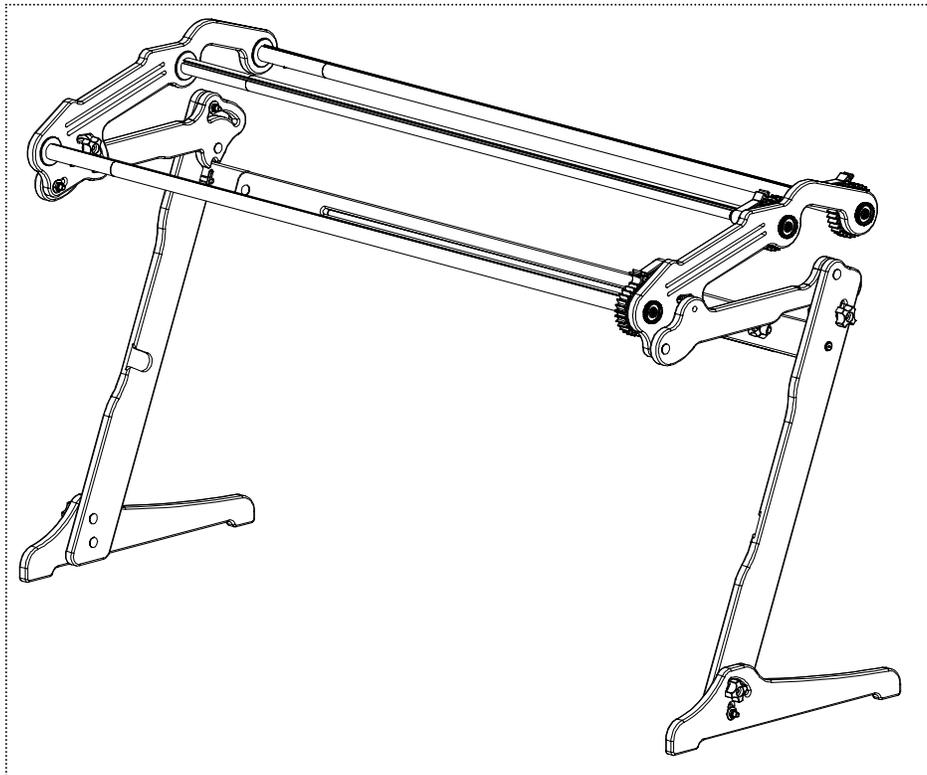
Step 2: Standing at back of Frame Slide Pole Assembly forward slightly.



Step 3: Tilt to Desired Angle of 0-45°Degrees.

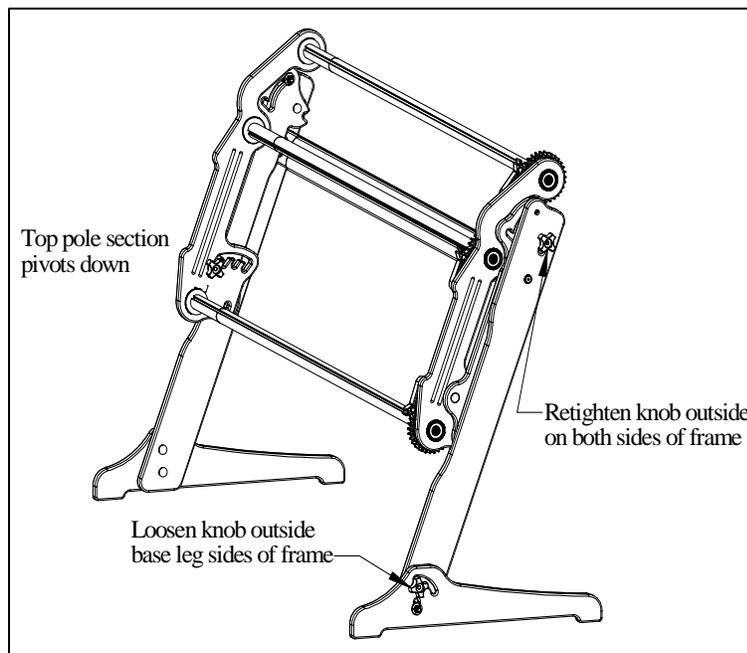
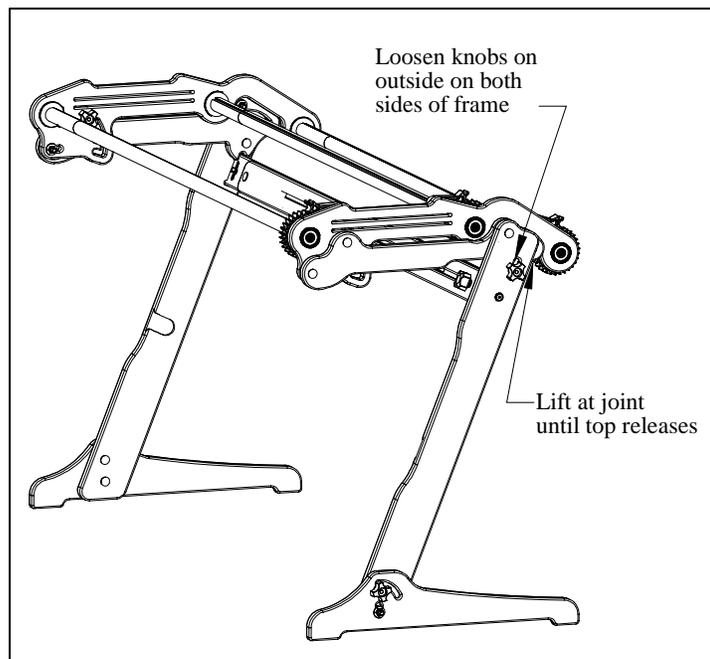
Step 4: Pole Assembly back until both ends rest solid between Teeth in Tilt Arch.

Step 5: Retighten Knobs inside Front on Both Ends of Frame.

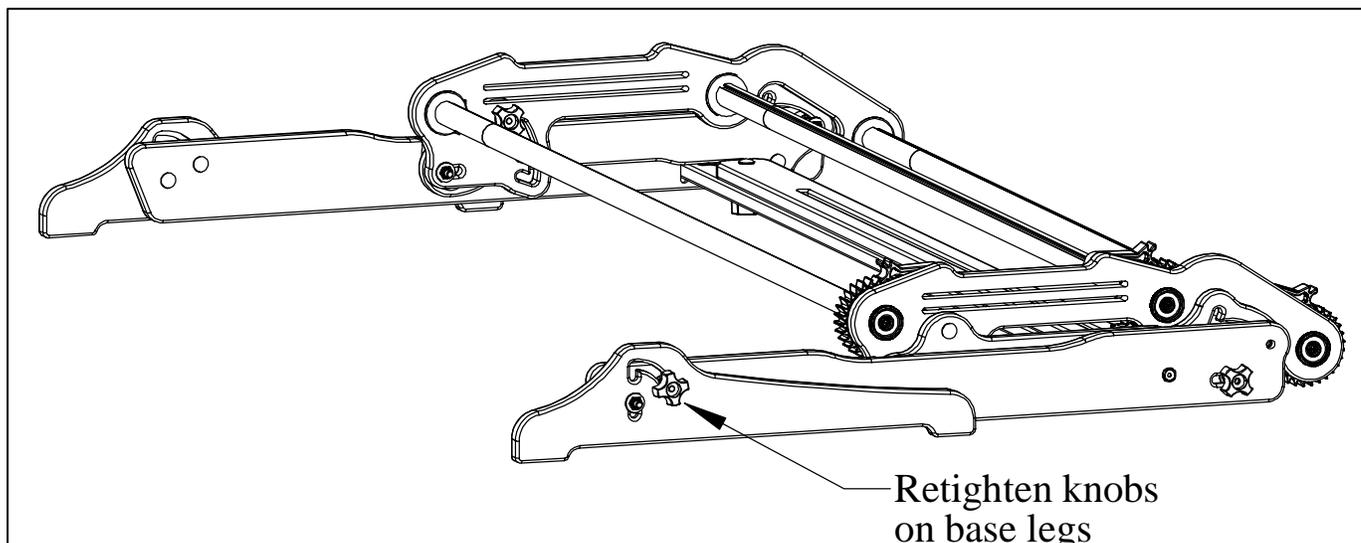


Folding the EZ3 Fabri-Fast

- Frame must not be tilted when it is to be folded. (See left picture below.)
- Folding feature will not affect the quilt in progress.
- Some practice may be required to fold the quilting frame in 20 seconds.
- Folded frame is about 6-1/2" wide.
- Follow the Steps in order, without variation.
- Reverse steps to unfold.



- Step 1: Loosen knobs outside on both sides of frame. (As seen in left picture above)
- Step 2: Lift at joint until top releases. (As seen in left picture above in diagram A)
- Step 3: Top Pole Section pivots down. (As seen in right picture above in diagram B)
- Step 4: Retighten Knobs outside on both ends of Frame. (As seen in right picture above in diagram B)
- Step 5: Loosen knobs outside Base Legs on both sides of Frame. (As seen in right picture above in diagram B)
- Step 6: Lift Entire Frame from the Brace until legs drop to the joint. (As seen in picture below in diagram C)
- Step 7: Frame will rotate forward and down. (As seen in picture below in diagram C)
- Step 8: Gently lay Frame Flat. (As seen in picture below in diagram C)
- Step 9: Retighten Knobs on Base Legs. (As seen in picture below in diagram C)



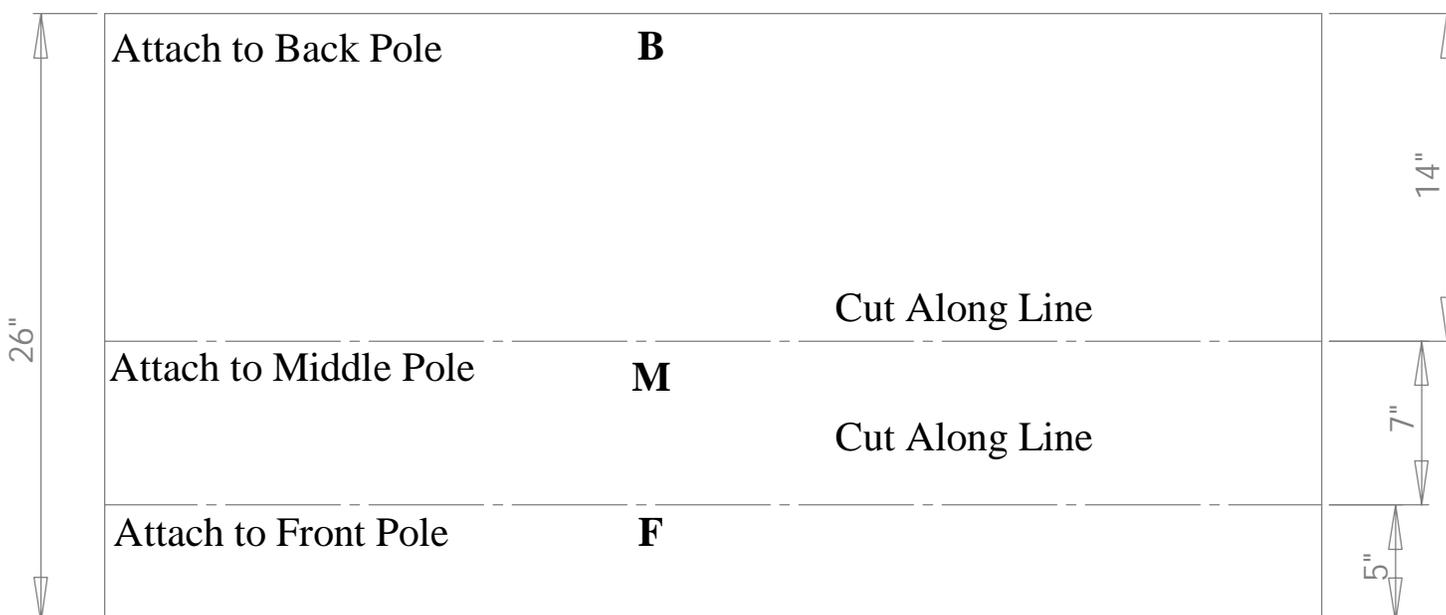
Quilting on the *NM-EZ3*TM

Preparing the Fabric Layers For Installation

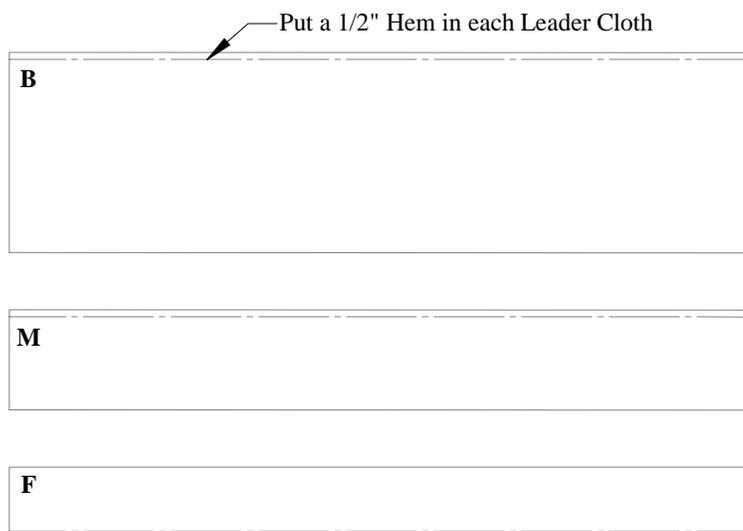
- Make sure that each layer of fabric is the correct size and has straight edges and square corners. The short time and small effort that you spend measuring and squaring will result in much time saved later in the quilting process.
- If the lining or backing has a seam running down the middle, then be sure to cut the salvage edge off at the seam and press the seam open over the entire length.
- **Bonded batting is strongly recommended.**
- PLEASE READ THE FOLLOWING INSTALLATION METHODS COMPLETELY BEFORE CHOOSING YOUR METHOD AND PROCEEDING!

Installing the Quilt Fabric Layers

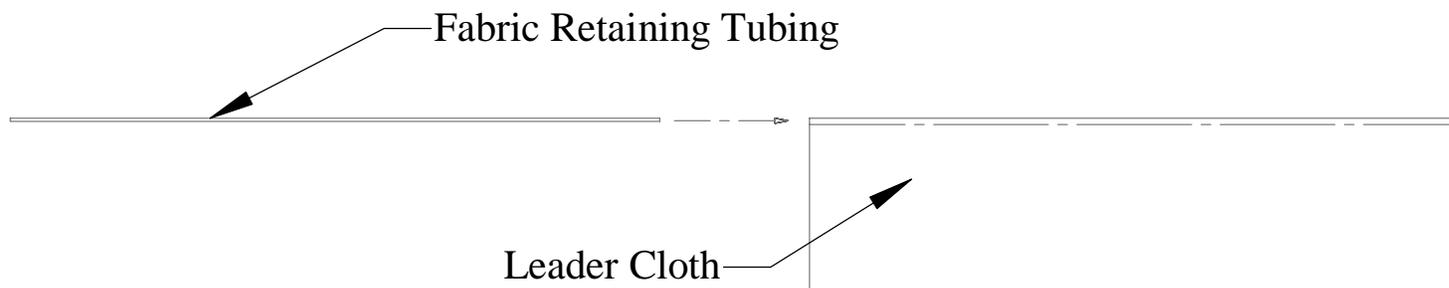
METHOD #1: MAKING AND USING CLOTH LEADERS



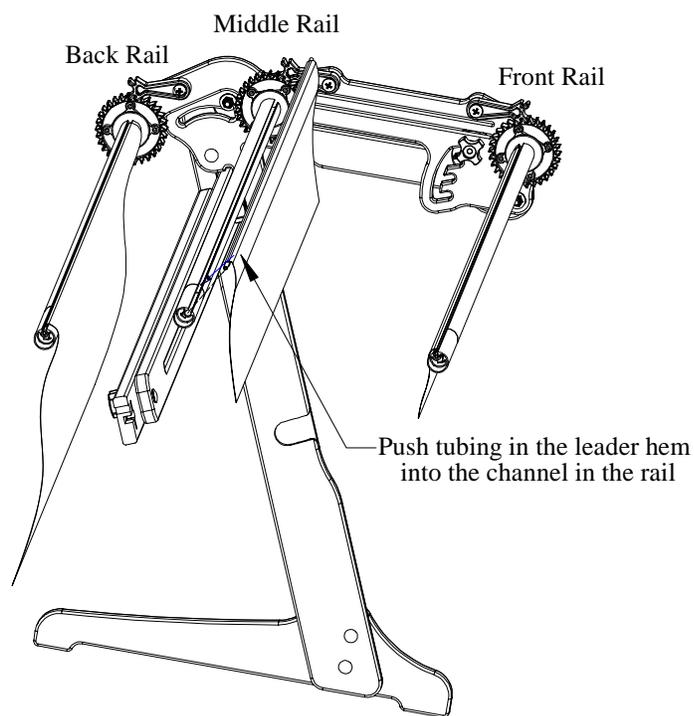
- This is the preferred method for installing your fabric, and is especially recommended when quilting a pieced top or a backing made with multiple pieces. Though it will take a little more time in the beginning, in the long run it will be a time-saver, preventing you from having to detach and re-attach your quilt as you near completion.
- **MATERIAL:** We recommend using unbleached muslin or mattress ticking.
- Cut your material to the dimensions specified above. Pieces “B”, “M”, and “F” correspond to the Back Middle and Front rails.



- Next, make a 3/4" casing or hem in each leader as pictured here.
- Slide the plastic retention tubing into this hem or casing (pictured below).



- **ALTERNATIVE:** Instead of making a hem or casing, you may also draw or sew a straight line in your fabric, 1/2" from the edge of the leader cloth. Use this line as a guide to line up your fabric retaining tube.
- Now push your tubing with fabric into the slot of the corresponding rail. Insert the 14" leader into the back rail, the 7" leader to the middle, and the 5" to the front.
- Now you are ready to install your fabric layers to the quilting frame, attaching each layer to the corresponding cloth leader.



1. Backing Fabric

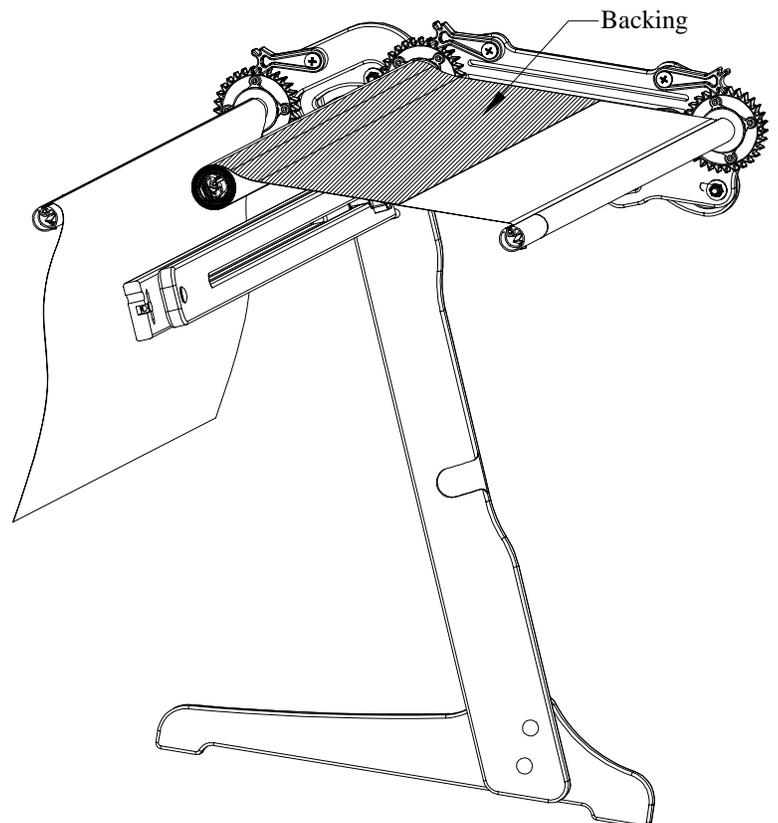
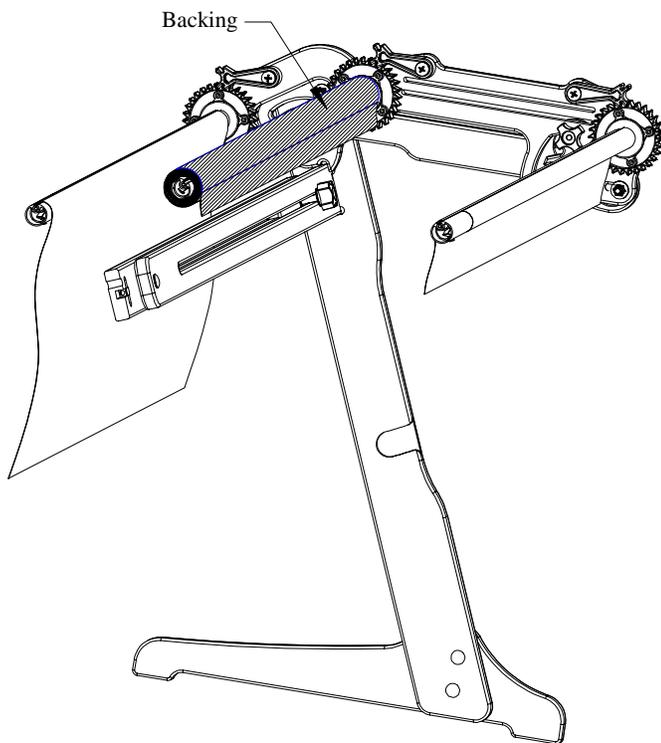
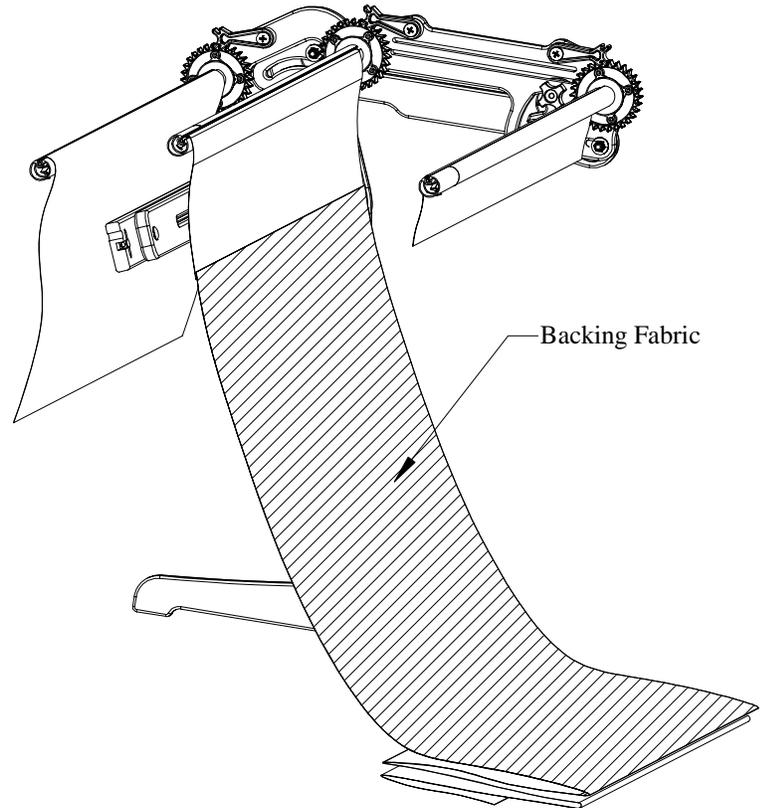
- **A. Proper Sizing:** The first fabric that will be applied to the quilting frame is the Backing. The Backing is also known as the lining fabric. This piece of fabric will be the under side of the finished quilt. It is recommended that this piece of fabric be larger than the top, on all four sides, especially if your top is a pieced top. (A pieced top may stretch out and become larger than the backing if you do not make this allowance). The Backing fabric can be one continuous piece of fabric or can be made by sewing fabric together.
- **B. Piecing the Backing fabric:** Many quilts have back fabrics that are not one continuous piece of fabric and are pieced together using two fabric pieces with a seam down the middle or three fabric pieces with two seams having been sewn. Cut the selvedge off before you piece the back fabric together. The selvedge is woven more tightly than the rest of the fabric and won't have the same give as the rest of the fabric. This may cause the seam to be too tight. Use a slightly larger, looser machine stitch than normal in sewing/piecing the lengths of the back fabric together. You also can sew your back fabrics together using crosswise piecing.
- **C. Backing fabric to Middle Pole:** Mark the center of Backing Fabric with a pin or pencil mark.
- Place the center mark to the center of the Middle Pole. (The Backing Fabric is put on with the wrong side of the fabric up and visible.)

- Lay the Fabric naturally and evenly along the straight line of the cloth leader. **Do not stretch the Fabric from side to side.** Start pinning the fabric onto the leader along the line that has been stitched or marked. Note: flat flower pins work great for this, and roll well against the pole

- **D. Rolling Fabric onto Middle Pole:** Next, roll the quilt backing onto the Middle Pole. To do this properly, be sure to roll the pole counter-clockwise as you look at the frame from the view below (toward the ratchet wheels). The fabric needs to roll from off the top of the pole and toward the front pole (see below).

- Roll the material onto the Middle Pole, making a smooth roll. Be sure that no wrinkles are present.

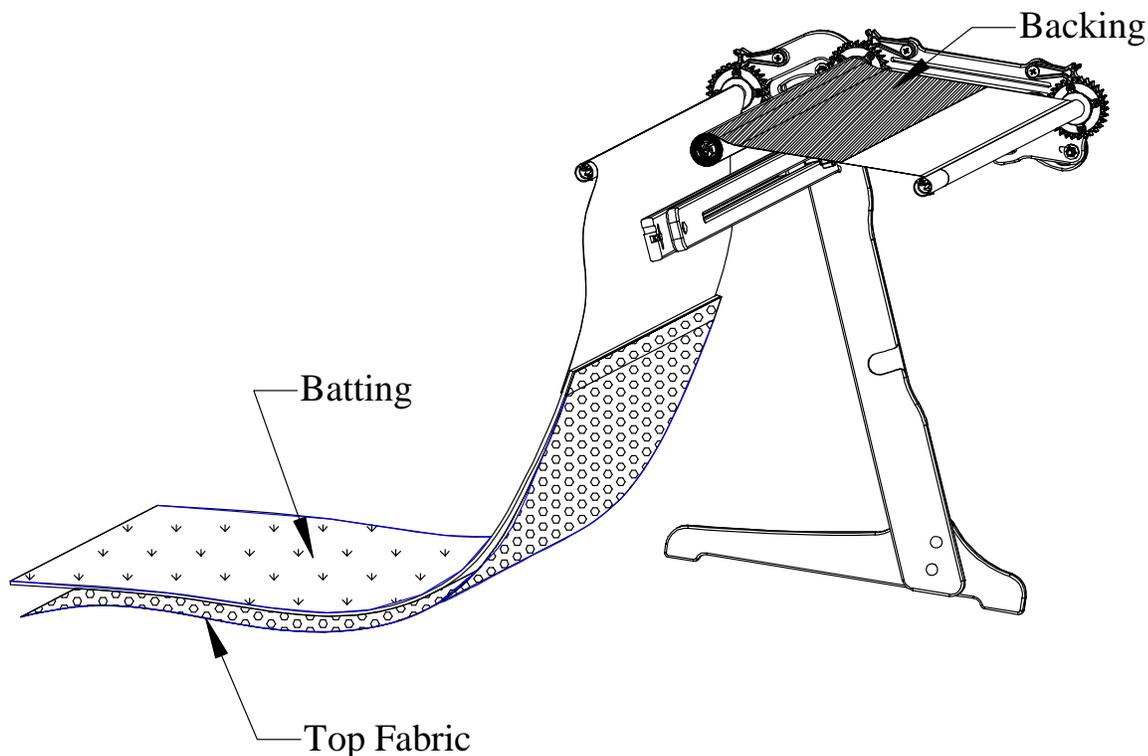
- Smooth the Quilt from the center to the outside edges of the Pole as it is being rolled. At this point do not roll the Fabric tightly, just nicely smooth and even.



- **E. Opposite end of Backing Fabric to Front Pole:** Place the other end of the Backing Fabric to the Front Quilting Pole cloth leader, centering with the mark as directed on the Front Pole (the same way as the first pole).
- Place the center mark to the center of the Front Pole leader. Lay the Fabric naturally and evenly along the straight line of the leader cloth. **Do not stretch the Fabric.** Pin the fabric to the leader cloth.
- Make sure that the amount of pole showing at the edges of the Fabric to the End Boards is the same on all Poles.
- ***Note* Fabrics should never be tight. For best results, use as little tension as possible without letting the Quilt sag.**

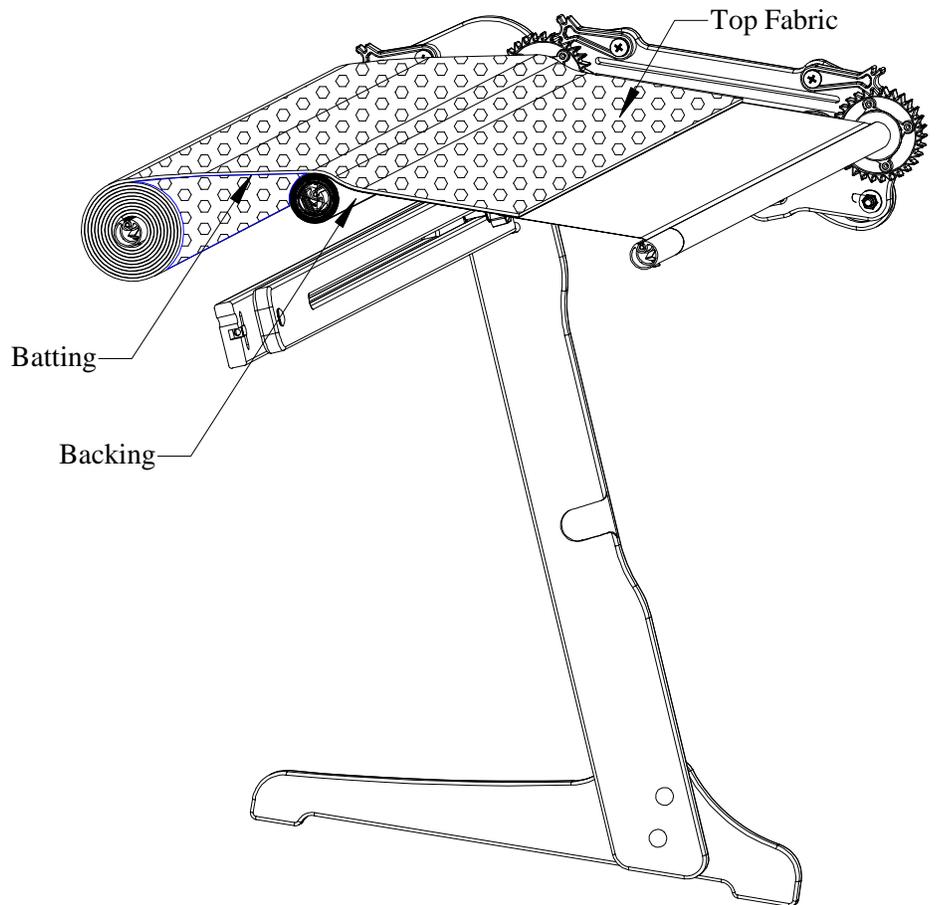
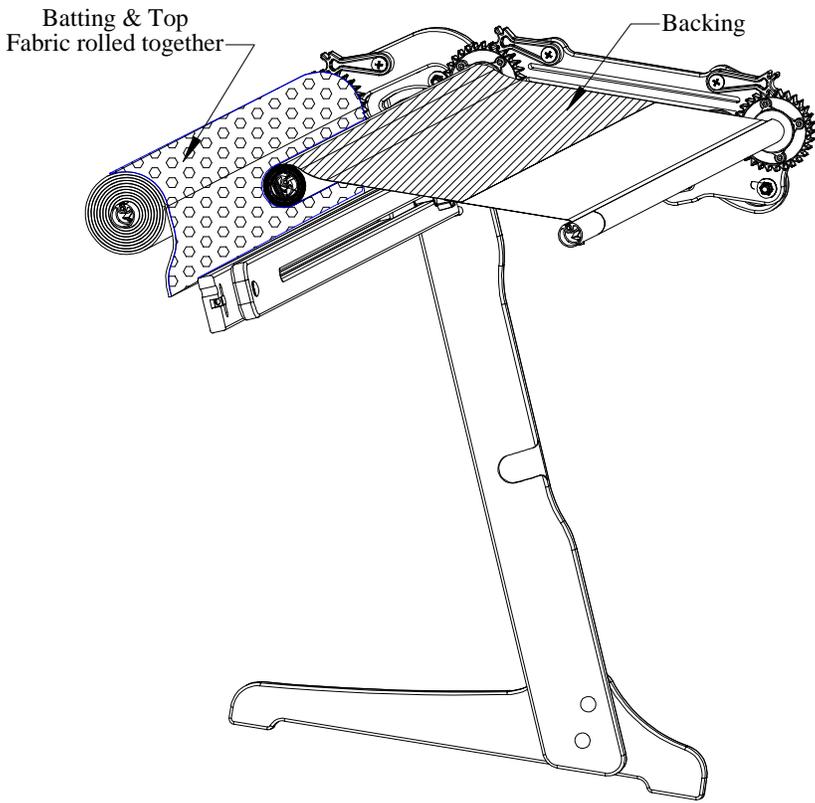
2. Batting and Quilt Top

- Lay the Quilt Top face down on the floor and line your batting directly over it. Mark the center of the Top.
- Line up the edge of the Quilt Top/Batting to Back Pole cloth leader as pictured.
- **Line the center the Top/Batting to the center of the rear pole. Pin fabric to the cloth leader.**



- Roll the Top/Batting onto the rear pole by rolling the rail counter-clockwise, as you did the middle pole. Make sure it rolls smoothly, with no wrinkles.
- When you reach the end of the fabric, pull the loose end of the Top/Batting over the backing and line it up on the front rail.
- Completely pin the Batting and Quilt Top moving from the center out to each corner.

➤ Remember to smoothly and evenly lay the Quilt Top to the Front Pole *without stretching* from corner to corner during the pinning process.



METHOD #2: INSTALLING FABRIC DIRECTLY TO THE POLES

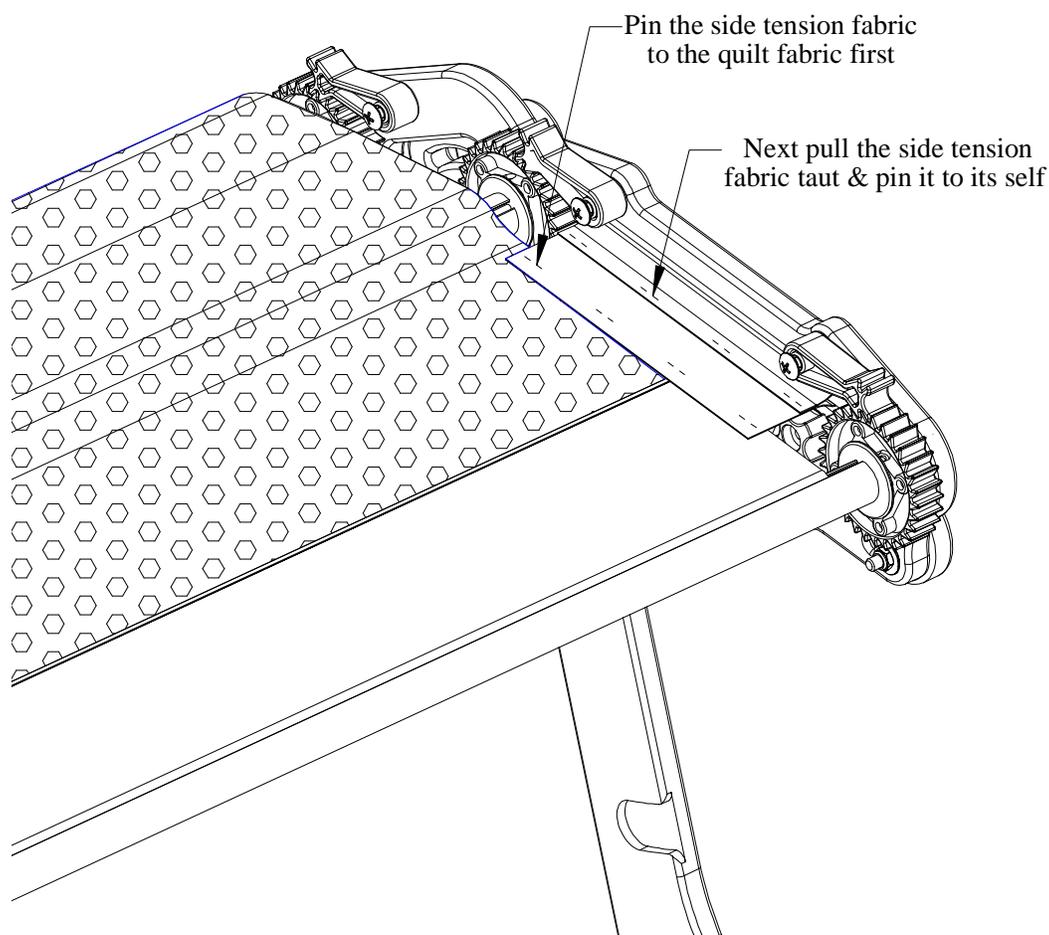
- This Method works well if your quilt top is a single piece and your backing is also one piece.
- In this method you bypass using cloth leaders and simply make a $\frac{3}{4}$ " hem or casing at either each of your backing (or draw or sew a straight line about $\frac{1}{2}$ " from each edge).
- Next, insert the fabric retaining tube into the hem or casing, or, if using the line method, push the fabric into the slot of the pole, following the straight line the entire way.
- Push the tubing with fabric securely into the pole the entire length.
- Do this in the same order as outlined in Method #1:
 1. Backing to Middle Pole
 2. Backing to Front Pole
 3. Top and Batting to Back Pole
 4. Top and Batting to Front Pole
- NOTE: The batting should not be inserted into the pole slots. Instead it should lie right up next to the slot. It may be pinned to secure it in place, if desired.

(See Side Tension Fabric, Next Page)

Making Your Side Tension *Fabric* (Optional)

In this section you will learn how to make the cloth attachment you will use to create side-to-side tension for your quilt.

- Muslin is an excellent fabric to use for this.
- Cut to the following dimensions: Two pieces of muslin into 10" x 16" rectangles.
- **NOTE! The smaller the quilt, the longer you will need to make the Side Tension Fabric for each side.**
- Hem all four sides $\frac{3}{4}$ ", each fabric piece will now measure $8\frac{1}{2}$ " x $14\frac{1}{2}$ "
- Thread the fabric through the slots located on both the Right and Left pole Mount Ends $8\frac{1}{2}$ " side first.
- Pin one end of the Side Tension Fabric to the quilt, as pictured below.
- Pull the Side Tension Fabric taut and pin it to itself.
- Repeat the last two steps for the opposite side.
- **NOTE!!! Each time you advance the fabric to a new section you will first un-pin and then re-pin the Side Tension Fabric to your quilt.**



TROUBLE SHOOTING

Problem: *Puckering is occurring throughout the quilt top as soon as it's removed from the frame.*

Solution: *Uneven tension was applied to the quilt layers (ex: if the top has puckers, the bottom was rolled faster or tighter than the top). This is a common mistake. It is VERY IMPORTANT that you use as little front-to-back tension on your fabric as possible! It is much easier to keep the tension equal on the backing and top if you keep it minimal from beginning to end.*

Problem: *Fabric sags on one side or in middle.*

Solution: *Fabric may not be cut evenly straight or the grain of the cloth may not be square. Take it off and square it up or pull (gently) to square.*

Problem: *Sides of quilt have a concave edge.*

Solution: *The fabric was stretched along the pole. Take the fabric off and let it relax until it is not misshapen and then re-install, without stretching it along the edge.*

Problem: *Batting tears or separates during the tightening of the ratchet wheels.*

Solution: *The Batting was stretched and stressed. One thing you can try is to make the Batting should be longer than the Quilt that you are making and there should be no tension applied to it. Another alternative is to use a few extra inches of Batting and let it sag down between the two rear poles. This will stop the Batting from pulling. You may unroll the rear pole and fix the Batting at any time during the quilting process.*

Problem: *Poles are bowing in.*

Solution: *The causes may be: 1. Seam down the center of the Fabrics may be sewn too tightly and is not giving with the rest of the Fabric. If the Seam is the problem the Quilt may be attached sideways, 2. Fabric is not cut evenly. 3. Too much tension has been applied. 4. Fabric has been stretched along the Poles instead of naturally laid along the Poles then attached.*

Helps for Tied Quilts:

Before installing the Quilt onto the Frame, mark both the Quilt Top and Backing in similar increments along the two side edges. (The sides that are not tacked onto the Poles.) While rolling the Quilt during the tying process watch the marks. This will help you to keep an equal tension on the Top and Backing Fabrics so you won't over tighten one or the other of your Fabrics. **Important!** *When rolling into a new area of tying, allow your last row of ties to remain in the new area of tying. Also, tie your knots tight. DO NOT over roll your last row of ties over the turn in the pole.*