

Congratulations! You have completed the assembly of your Quilting Frame.

All that remains is to install your fabric and begin quilting! (You'll notice you still have Bungee Clamps leftover. These will be assembled in conjunction with your fabric installation).

With the Grace Company's, specially designed Fabri-Fast rails, installing your fabric is easier on this Frame than on any other frame. Each rail has a Fabri-Fast slot and accompanying tubing. These work together to make your fabric installation much easier and faster than using tape, tacks, or Velcro®.

Before you begin, please locate the plastic Fabri-Fast tool included in your shipment.

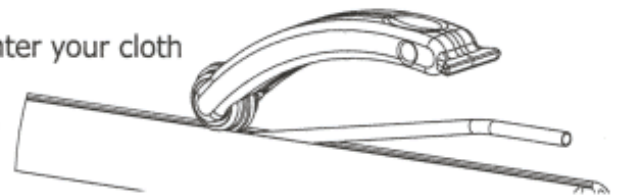
We recommend you begin with practice material allowing you to experiment with machine settings and stroke techniques.

NOTE: As you cut your fabric layers, we recommend making the quilt backing about 6-8" longer and 2-4" wider than your top. This will allow for a little give in the backing, especially if using thicker batting.

Quilting Frame Fabric Installation

Rail Rotation: It is important that each rail rotates the correct direction to apply tension to your quilt layers correctly. Light tension is applied to your quilt fabric to remove wrinkles, and to allow the fabric to be sewn together consistently throughout the entire quilt. **The Ratchet Rail ends allow you to limit the direction that each rail rotates.** The ratchet can also be set to a neutral position by pulling the knob up and twisting it.

Installing Fabric Layers onto the Rails (Preview): Center your cloth lengthwise along the rail. Using Grace's Fabri-Fast™ System, take a piece of plastic tubing (cut to the appropriate length), and, holding your fabric to the slot (lining up the edge), press the tubing over the fabric and into the slot. Use the Fabri-Fast tool to press the rest of the tube and fabric in quickly and easily.



Methods of Installation: **1:** The recommended method for installing fabric onto the rails is to apply your fabric layers directly to the rails. **2:** You may also make and use **Cloth Leaders**.

OVERVIEW: *This is an outline to show which fabric layer goes onto each rail, and the direction that each rail should rotate.*

- Step 1:** Install Batting to Batting rail and roll up.
- Step 2:** Install Quilt Top to the Quilt Top rail and roll up.
- Step 3:** Install Backing to Backing rail and roll up.
- Step 4:** Attach Quilt Layers to Take-Up rail.

Step 1: Batting

NOTE: A light, bonded batting is recommended.

1-1: Center the batting on the batting rail and attach one end of the batting using the Fabri-Fast tubing. (NOTE: Fabri-Fast tubing will work with most batting, however, if the batting is too thick to squeeze into the slot, you may tape the batting to the rail to keep it in place).

1-2: Roll the batting onto the rail. The direction that you roll the batting onto the rail doesn't matter. The important thing to watch when rolling batting onto the rail is that the batting isn't stretched (See Fig. 1-1).

Step 2: Quilt Top to Quilt Top Rail

2-1: Determine which end of your quilt will be the front.

2-2: Place the quilt top onto the table surface with its finished side facing up. Line up the center of your fabric layer with the center of the quilt top Rail. Attach the back edge of your quilt top to the quilt top rail. This is to be done with the finished side of the fabric facing up. Do not stretch or pull the fabric during this process. Let it lay as naturally as possible.

2-3: Roll your quilt top onto the Quilt Top Rail completely. Again, be sure the fabric stays lined up. Smooth out any wrinkles as you roll by brushing the fabric from the center out, being very careful not to stretch or pull the fabric excessively.

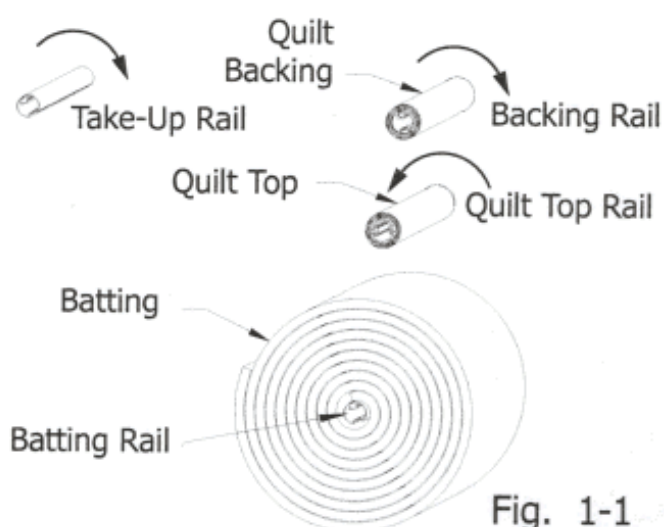


Fig. 1-1

Step 3: Quilt backing to Backing rail

3-1: To begin, determine which will be the front and back edges of your quilt backing. (Your quilt can't exceed (110" wide) the maximum quilt width of your Quilting Frame. Your quilt's length is not limited)

NOTE: If your backing is made up of more than one piece of fabric, cut your selvages off and flatten out the seams with an iron to allow the backing the proper give it needs.

3-2: Place your quilt backing onto the table surface good side down. Line up the center of your fabric layer with the center of the Backing Rail. Attach the backing with its finished side of the fabric facing the rail. Do not stretch or pull the fabric during this process. Let it lie as naturally as possible.

3-3: Roll your backing onto the backing rail completely. Watch to make sure the fabric stays lined up. Smooth out any wrinkles as you roll by brushing the fabric from the center out. However, be very careful not to stretch or pull the fabric excessively.

NOTE: It is important that you roll the rail the proper direction so the fabric rolls onto the quilt top rail the right way (If the rail always rotates the correct direction, as indicated in Fig. 1-1 you will avoid potential problems with the quilt fabric).

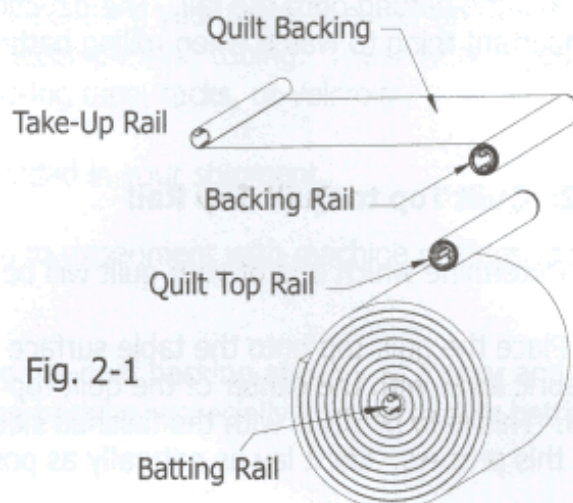


Fig. 2-1

Step 4: Attaching Quilt Layers to the Take-Up Rail.

4-1: Put the Take-Up Rails Ratchet into position, to ensure that it always rotates the correct direction.

4-2: Take the end of the quilt backing and attach it to the take-up rail with the Fabri-Fast tubing, be careful to not stretch your fabric. Roll the Backing Rail to apply just enough tension to the Backing fabric. The fabric should be loose, but not sagging.

4-3: Next, bring your **Batting** up in **between** the **Quilt Top Rail and Backing Rail** and drape over the Backing. Lay it along the edge of the Take-Up Rail (See Fig. 3-3).

4-4: Bring the edge of the **Quilt Top** up over the **Backing and Batting** and lay it over the batting along the Take-Up Rail. Pin your Top and Batting to the Backing, in a straight line along the edge of the Take-up Rail. You may also baste the edge with your sewing machine.

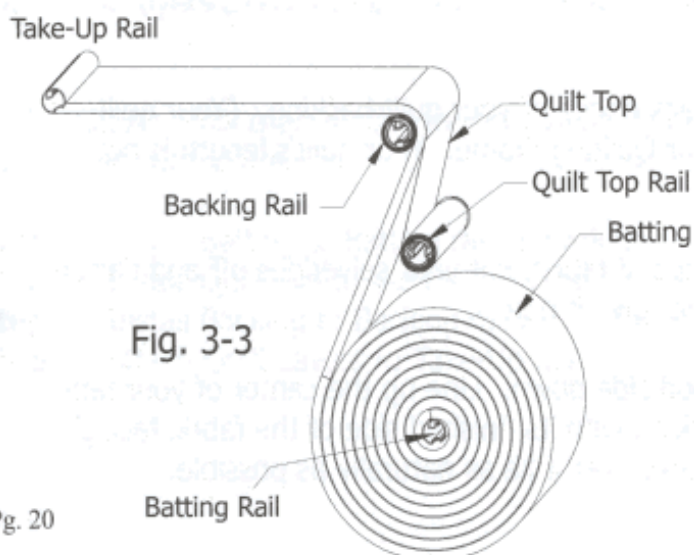


Fig. 3-3

You are now ready to sew your desired patterns onto your quilt.

Rolling your fabric

When you have completed your work area and are ready to roll to the next, simply switch the Quilt Top, and Backing Ratchets into the unlocked position, allowing them to roll freely. Roll the Take-Up Rail forward, rolling the sewn quilt area onto that rail. After you have advanced your quilt to the next location, move each Rail's Ratchet lever to it's pre-determined position, and re-apply just enough tension to hold the fabric up without sagging, and without stretching the fabric.

TIP! As you roll the quilt forward, the quilt will accumulate on the Take-Up Rail. Raise the Take-Up Rail Bracket as needed, so that the bottom of the rolled up fabric stays about 1/16" above the sewing machine base. Failing to do so will cause your Carriage Assembly to roll less smoothly.

Turning Quilt Around (This will enable you to quilt the entire quilt surface.)

Step 1: Begin pin basting your quilt when the quilt rolled up onto the Take-Up Rail is larger than desired. Pin baste all of the remaining un-quilted material.

Step 2: Detach the individual layers of fabric from their rails (Backing, Top, and Batting) and roll them up onto the Take-Up Rail. (Keep The quilt attached to the Take-Up Rail.)

Step 3: Remove the Backing Rail. Remember to support the rail to prevent the Rail Ends from being broken. Temporarily place the rail on the floor in front of your quilting frame. (We recommend having someone help you with this step and also with step 4.)

Step 4: Remove the Take-Up Rail (with quilt rolled onto it) and put it into the highest notch in the Fabric Layers Rail Brackets (the Backing Rail Location), making it the New Backing Rail. Now put the other rail in the Take-Up Rail location, making it the New Take-Up Rail.

Step 5: Attach the (quilt) two layers of fabric, and the batting to the New Take-Up Rail, using the Fabri-Fast Tubing.

Step 6: Roll the quilt off of the New Backing Rail, onto the New Take-Up Rail. Place the New Take-Up Rail's ratchet into the locked position.

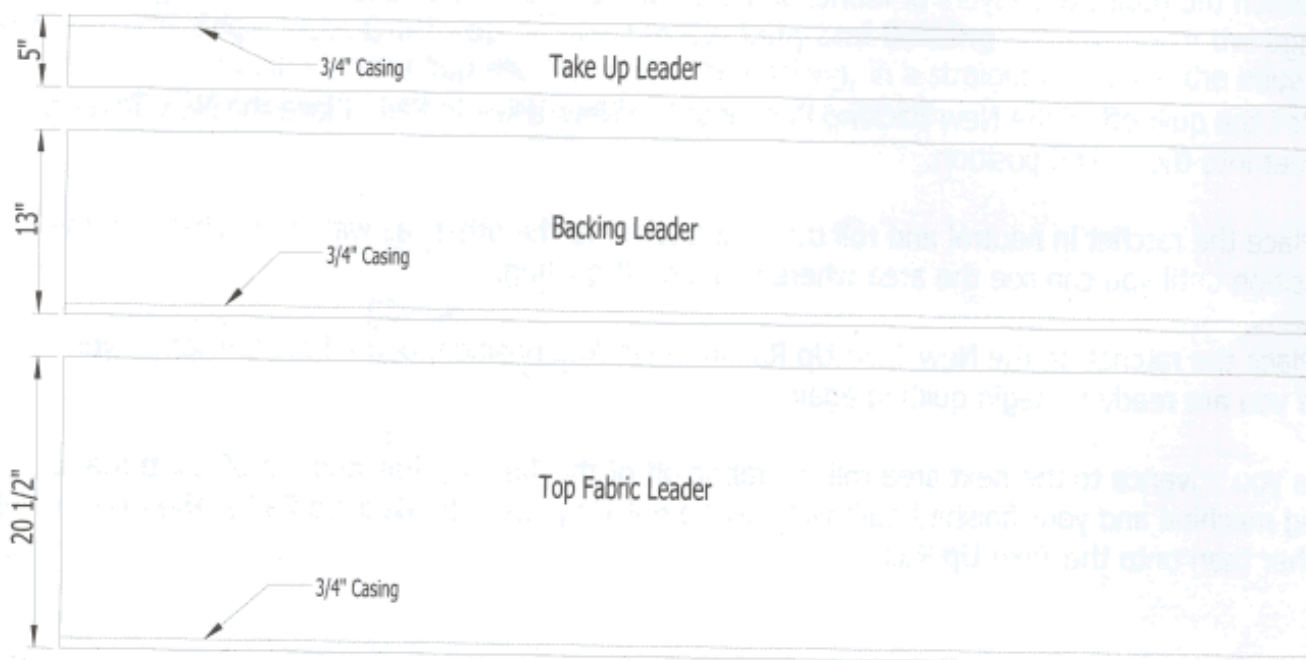
Step 7: Place the ratchet in neutral and roll the quilt back onto the other rail with its ratchet is in the locked position until you can see the area where you left off quilting.

Step 8: Place the ratchet on the New Take-Up Rail in the locked position, add a little tension to your fabric and you are ready to begin quilting again.

NOTE: As you advance to the next area roll the fabric off of the Take-Up Rail and out of the throat of the sewing machine and your finished quilt will now be rolled up onto the Backing Rail at the front of the frame rather than onto the Take-Up Rail.

Making Cloth Leaders

- 1: First, select your cloth leader material. We recommend using a good quality muslin or similar fabric that has a good thread count. Be aware, however, that if the fabric is too thick, it may prove more difficult getting it installed into the rail slot.
- 2: Surge or hem your cloth leaders on all sides.
- 3: Make cloth leaders in the following widths. (The recommended length is 105", this length will accommodate any width of quilt that can be made on your Quilting Frame.)
- 4: Make a dashed line along the length of your leader about $\frac{1}{2}$ " in from the edge with a pen or marker. You will use this as a guide to help you insert your leader into the slot in straight line.
(OPTIONAL: For a straighter cloth leader installation, some may consider it easier to make a hem and then push the tubing into the hem before installing it into the slot. If you wish to do this, create a hem on one end of each leader by folding over the fabric one inch (1"), and, using your foot pedal as a guide, stitching the fabric together $\frac{3}{4}$ " from the fold. This will leave about $\frac{1}{4}$ " of fabric beyond the stitching. Leave the edges open on both ends. You may then slide your tubing into the hem, Fig. CL1-1).
- 5: Mark each cloth leader at the center (length-wise).
- 6: Mark (or baste) a straight line about $\frac{1}{2}$ " in from the opposite (non-hemed, or non-dashed) end of the leader. This will be the line to which you attach your fabric layer.
- 7: Center your cloth leader lengthwise along the rail. Using Grace's Fabri-Fast™ System, take a piece of plastic tubing (cut to the appropriate length), and, holding your cloth leader to the slot (lining up the dashed line), press the tubing over the leader and into the slot. Use the Fabri-Fast tool to press the rest of the tube and fabric in quickly and easily. (If you have made a hem, line up this hem w/ tubing over the slot and press it into the slot using the Fabri-Fast tool.
- 8: With Cloth Leaders in place, pin your Quilt Fabric to the Leaders, rather than attaching it directly to the Rails.



Bungee Clamp Installation

There are 4 Bungee Clamps provided with your Quilting Frame. The Bungee Clamps allow you to easily add side tension to your quilt fabric. Clip your Bungee Clamps to the quilt fabric, then insert the loose Bungee end through the Bungee Holder and bungee stop. Apply some tension to the Bungee then slide the bungee stop to retain tension.

Sewing Machine Clamp Installation

To install the sewing machine clamps to hold the sewing machine in place on the carriage, flip the lever up to open the clamp then slide the base of the clamp into the slot on the carriage top plate so that it is snug against your machine. Flip the lever down to lock the clamp into place.

Optional Accessories

There are many optional accessories available for your Quilting frame.

Lamp Holder Accessory: Your Quilting Frame was shipped with Lamp Brackets, as well as the hardware required to attach the brackets. The Lamp Brackets are easily attached to the Handle Braces. Lamps, and other accessories can be attached to the Lamp Brackets. You can purchase a Lamp from the Grace Company web site, www.graceframe.com, or by calling Your Grace Company Distributor.

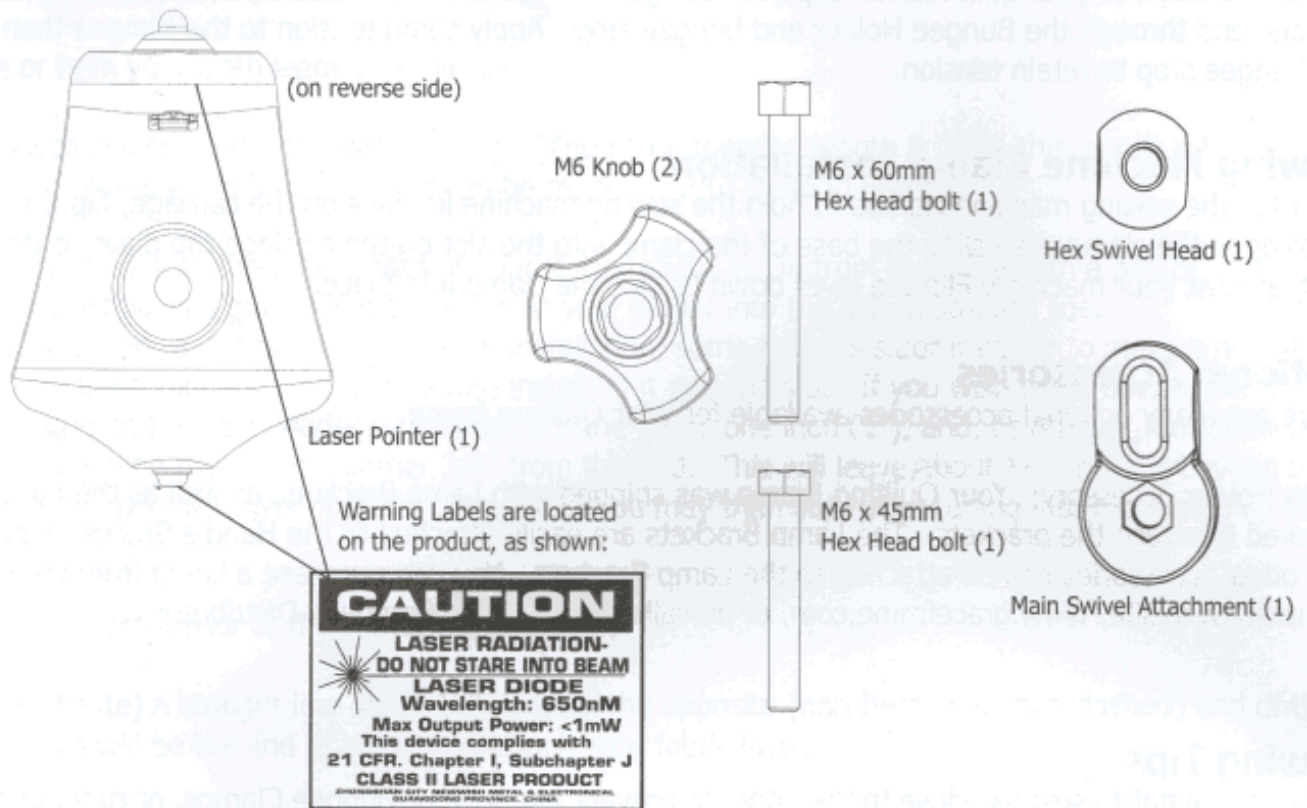
Sewing Tips

- Be careful not to sew too close to the edge, to prevent hitting your Bungee Clamps, or running off the edge of the quilt. Also, if you are using side leaders, avoid accidentally stitching the leaders to your quilt.
- If your quilt will fit onto your frame Length-wise attach your quilt's fabric to the rails along it's length. You will have to roll the quilt less often, since your work surface will be as large as possible. Also, the quilt will not be as fat under the arm of the machine when you get to the end.
- You will need 4-5 bobbins to quilt a small sized quilt (less than a queen).
- Make sure to turn off your sewing machine any time you leave your quilting room, especially if you are using the peddle pushing mechanism. If the mechanism pushes the pedal at all it may cause your sewing machine and peddle to get very hot.
- Keeping the fabric on the Take-Up Rail touching the bed of the sewing machine, instead of above the bed yields better results. If the fabric is too high off the bed, bouncing will occur.
- When rolling the quilt, pull the batting a little to each side to make sure that it is not bunching. After rolling and tightening all the rollers, check under the quilt to see that the back is smooth.

The Gracie Laser User Manual

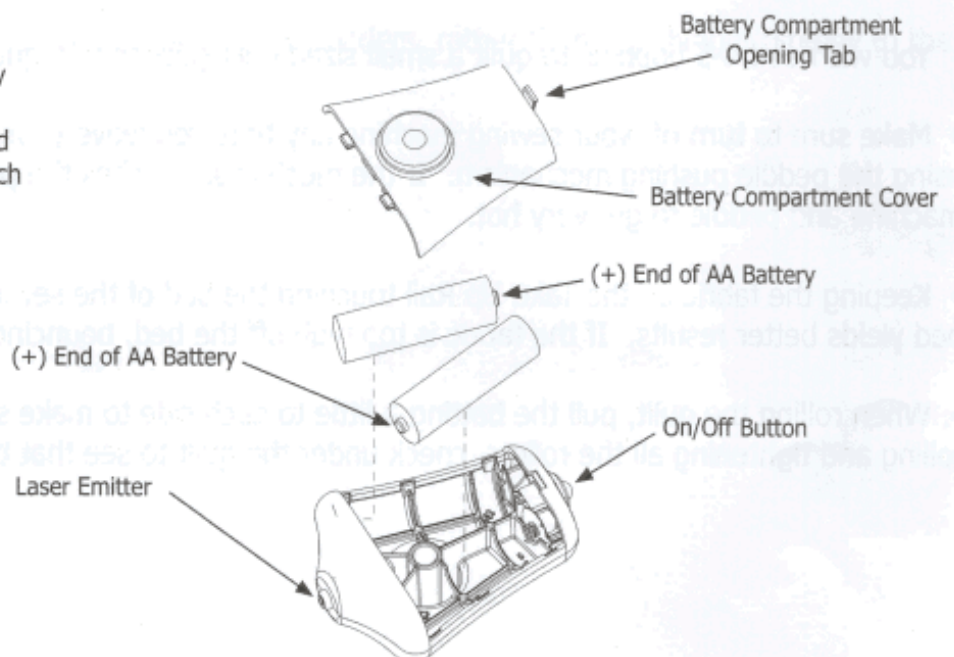
Parts List

SAFETY PRECAUTIONS



1. CAUTION: Use of controls, adjustments, or performance of procedures other than given in USER MANUAL may result in hazardous laser light exposure.
2. This product is safe to use in normal operations as described in these instructions. **AVOID DIRECT EYE EXPOSURE. DO NOT LOOK DIRECTLY INTO THE LASER EMITTER.**

Battery Installation: Use the battery compartment opening tab to remove the battery cover. Batteries are inserted with their positive pole (+) opposite each other. (Illustration shown)



Specifications:

Power:	Class II
Wavelength:	650nm
Output Power:	1mW
Battery Type:	2 AA
Battery Life:	150 Continuous hours
Weight:	31.2g Without Batteries
Dimensions:	6.929" L X 1.533" W
Color:	Blue

The Grace Company certifies that the Gracie Laser complies with the government FDA regulation 21CFR 1040.10 and 1040.11.