The Mini Pinni Quilting Frame



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The Mini Pinni Quilting Frame By The Grace Company

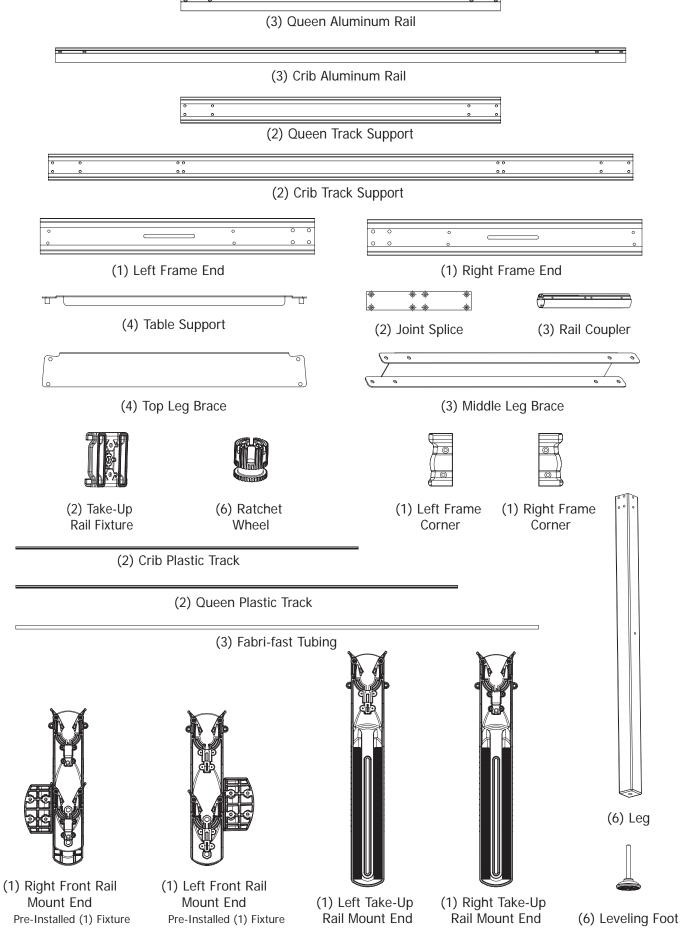
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Parts List A

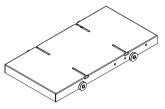


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Parts List B



(1) Right Handle Tube Pre-Installed (2) Grip Foam



(1) Top Plate Pre-Installed (4) Wheels



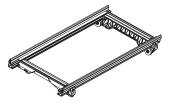
(4) Sewing Machine Clamp Assembly



(1) Fabri-Fast Tool



(1) Handle Brace



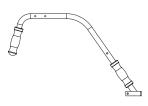
(1) Bottom Plate Pre-Installed (4) Wheels



(2) Bottom Plate Extrusion End Cap A



(4) Bungee Clamp



(1) Left Handle Tube Pre-Installed (2) Grip Foam



(1) Bottom Plate Platform



(2) Bottom Plate Extrusion End Cap B



(1) Speed Control Assembly

Hardware List



(76) 6mm X 10mm SHBC (Socket Head Button Screw)



1-----



(18) 5mm X 16mm SHBC (Socket Head Button Screw)

(4) 6mm X 12mm SHBC

(Socket Head Button Screw)



(6) 6mm X 35mm Hex Screw

(6) 6mm Hex Nut

(2) 6mm X 40mm SHBC (Socket Head Button Screw)



(6) Plastic Knob

Tools Needed:

Open end wrench (Provided) 3mm, and 4mm Allen wrenches (provided) Fabri-Fast Tool (to be used when installing your fabric)

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 of feedback from many of the thousands of quilters who have purchased and use our machine quilting systems, we have been able to make a frame that will truly enhance the entire process of machine quilting from beginning to end.

WELCOME!

As you begin assembly of your new home machine quilting system, keep in the mind the following:

- 1: The assembly process will be simple and step-by-step.
- 2: Read through each step completely before beginning that step.
- 3: Using the parts list as a reference, take the parts out of the box and make sure that you have them all.
- 4: Identify Hardware Packets: All hardware is separated by type and each packet is labeled for ease in identification.

Step 1: Outer Leg Sub-Assembly

Parts Needed:

- 4- Legs
- 4- Leveling Feet
- 2- Top Leg Braces
- 2- Middle Leg Braces
- 16- 6mm X 10mm SBHC Screws

Tools Required:

4mm Allen Wrench

1-1: Screw a Leveling Foot into the bottom of each of the legs as shown in Fig (1-1).

*****Do not tighten the screws till you have completed step 1.***** 1-2: Lay the two Leg Assemblies down to simplify this step. Make sure the four holes on the face of the Legs are to the outside and secure the Middle Leg Brace on the middle of the leg with four (4) 6mmX10mm SBHC Screws.

1-3: Secure the Top Leg Brace on the top of the leg with four (4) 6mm X10mm SBHC Screws. Tighten the 6mm X 10mm SBHC Screws using the 4mm Allen Wrench to secure them in place.

1-4: Repeat the first three steps to complete a total of two (2) Outer Leg Assemblies as shown in Fig (1-2).

Step 2: Middle Leg Assembly (Queen Only)

Parts Needed:

- 2- Legs
- 2- Leveling Feet
- 2- Top Leg Braces
- 1- Middle Leg Braces

12-6mm X 10mm SBHC Screws

Tools Required:

4mm Allen Wrench

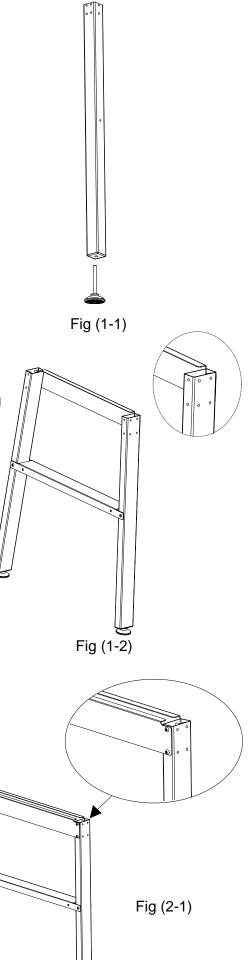
2-1: Repeat steps 1-2 & 1-3 of the Outer Leg Assembly as shown in Fig (1-2).

2-2: Secure the two Top Leg Braces on the top of the legs with eight(8) 6mm X10mm SBHC Screws. Make sure the two folds on the Top Leg Braces are to the inside as shown in fig (2-1).

Step 3: Frame End Sub-Assembly

Parts Needed:

- 2- Take-Up Rail Fixtures
- 1- Right Frame End
- 1- Left Frame End
- 2- Plastic Knobs
- 6-6mm X 35mm Hex Screws



3-1: Put the two (2) 6mm X 35mm Hex screws into the Take-Up Rail Fixture as shown in Fig (3-1). Make sure the hex heads are seated into the countersinks on the Take-Up Rail Fixture.

3-2: Slide the Take-Up Rail Fixture down to the middle of the slot in the Frame End as shown in Fig (3-2).

3-3: Slide an additional 6mm X 35mm Hex Screw into the Take-Up Rail Fixture as shown in Fig (3-2) and secure with the Plastic Knob.

3-4: Repeat step (3-1) to (3-3) to complete the other Frame End.

Step 4: Queen Frame Assembly, turn to Step 15, on Page 12 to assembly your frame in Crib Size

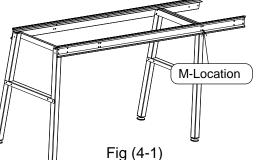
Parts Needed:

- 2- Outer Leg Assemblies
- 1- Middle Leg Assembly
- 2- Crib Track Supports
- 2- Queen Track Supports
- 1- Right Frame End Sub-Assembly
- 1- Left Frame End Sub-Assembly
- 1- Right Frame Corner
- 1- Left Frame Corner
- 2- Joint Splices
- 36- 6mm X 10mm SBHC Screws
- 4- 6mm X 12mm SBHC Screws

Tools Required:

4mm Allen Wrench

Fig (3-1) Fig (3-1) Fig (3-2) Fig (3-2) Fig (3-3)

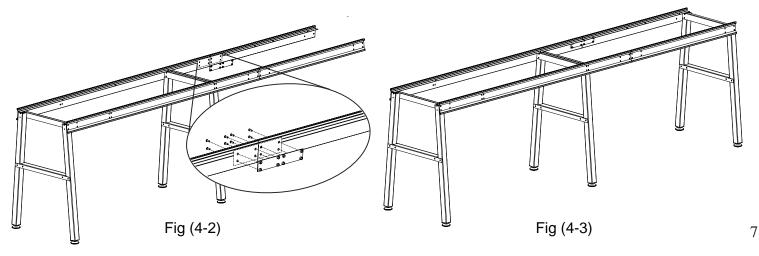


We recommend having someone hold up one end of the track support to help you with this step.

4-1: Secure one end of the Track Support to the Outer Leg Assembly and the M-Location to the Middle Leg Assembly with four (4) 6mm X 10mm SBHC Screws with the 4mm Allen Wrench as indicated in Fig (4-1). Make sure you attach the Track Support to the two Outer Leg Assemblies, so that the Top Leg Brace is to the inside.

4-2: Join the Crib Track Support and Queen Track Support with the Joint Splice with eight(8) 6mm X 10mm SBHC Screws, as indicated in Fig (4-2). Repeat this step to assemble the other side of the Frame.

4-3: Repeat the first step to assemble the other side of Frame as shown in Fig(4-3).



4-4: Attach the Left Frame Corner to the Left Frame End as shown in Fig. 6mmX12mm (4-4); Use two (2) 6mm X 12mm SBHC Screws through the Left Frame Corner and the Left Frame End into the Frame Assembly. Tighten the 6mm X 12mm SBHC Screws with the 4mm Allen Wrench.

4-5: Use two (2) 6mm X 10mm SBHC Screws to attach the front of the Left Frame End to the Frame Assembly. Tighten the 6mm X 10mm SBHC Screws with the 4mm Allen Wrench.

4-6: Repeat 4-4 and 4-5 to complete the Right Frame End.

Step 5: Queen Table Supports & Table Surface Attachment

Parts Needed:

- 4- Table Supports
- 2- Table Surfaces
- 8-5mmX10mm SBHC

5-1: Attach all four (4) Table Support to the Track Support with the 5mm X 10mm SBHC Screws. The Table Braces are attached to the bottom side of the Track Support flange.

5-2: Start at one end of the Frame and remove the backing from the Tape on the Track and Table Supports. Make sure the TEXTURED side is facing UP. Line up the plastic Table Surface with the Top Leg Braces and press the surface firmly in place. Then o the same thing for the other section of the table.

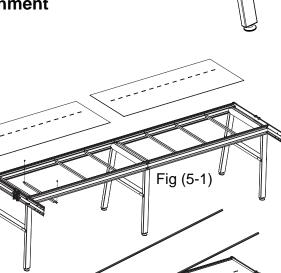
Step 6: Queen Track Attachment

Parts Needed:

2- Queen Plastic Tracks

6-1: Snap the Queen Plastic Track into the Track Supports on the Front, and also the Back of the Table assembly as shown in Fig (6-1). Start on one end of the Track, and work your way down as the Track snaps into place.

Step 7: Queen Rail Assembly



SBHC

Left Frame

Corner

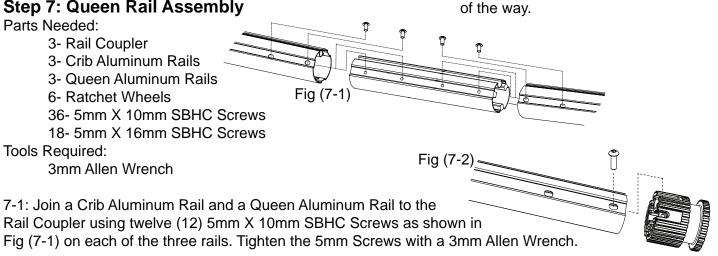
Fig (4-4)

6mmX10mm

SBHC

Note: To remove the track, start at one end; pry the track out with a small screw driver and then pull it out the rest of the way.

Fig (6-1)



7-2: Attach a Ratchet Wheel to one end of each rail with a 5mm X 16mm SBHC Screw, as show in Fig. (7-2).(Slide the Ratchet Wheel onto the Rail until you can see the entire nut in the hole); repeat this for all three (3) sides of the Ratchet Wheel on both ends of the rail. Follow the same method to complete the other Rails.

Step 8: Rail Mount End Assembly

Parts Needed:

- 1- Left Take-Up Rail Mount End
- 1- Right Take-Up Rail Mount End
- 1- Right Front Rail Mount End
- 1- Left Front Rail Mount End
- 8-6mm X 10 mm SBHC Screws
- 4- Plastic Knobs

Tools Required:

4mm Allen Wrench

8-1: Attach the Right & Left Take-Up Rail Mount Ends to each side of the Take-Up Fixtures with the four (4) plastic knob. As shown in Fig (8-1).

8-2: Secure the Right & Left Front Rail Mount Ends to each side of the Frame End Sub-Assembly by tightening four (4) 6mmX10mm SBHC Screws with the 4mm Allen Wrench as shown in Fig (8-2).

Step 9: Rail Attachment to Table Assembly

Parts Needed:

3- Rail Assemblies

WARNING: The Rail End may become damaged if the Rail is allowed to sag down while one end is attached to the Take-Up Rail Mount End, or Front Rail Mount End.

9-1: Slide one side of the Ratchet Wheel of the Rail Assembly into the wide slots in the Right Take-Up Rail Mount End and snap it into place past the ratchet keeps. As shown in Fig (9-1).

9-2: Slide the other side of the Ratchet Wheel of the Rail Assembly into the wide slots in the Left Take-Up Rail Mount End and snap it into place. The rail should now turn freely.

9-3: Put the Ratchet lever in the Neutral Position to roll the rails freely or Ratcheting Position to ratchet the Rails, as shown in Fig(9-2).

Step 10: Top Plate Assembly

Parts Needed:

- 1- Top Plate
- 1- Handle Brace
- 1- Right Handle Tube
- 1- Left Handle Tube
- 4- 6mm X 10 mm SBHS Screws
- 6-6mm Hex Nuts
- 2-6mm X 40mm SBHS Screws

Tools Required:

4mm Allen Wrench Open End Wrench

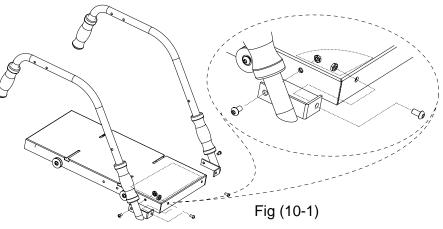
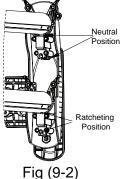
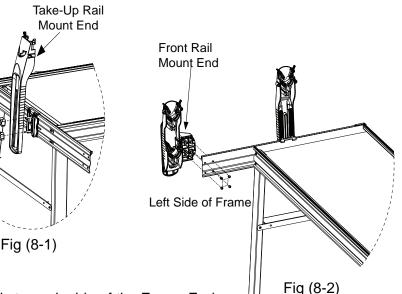


Fig (9-1)





10-1: Attach the Right Handle Tube to the right back corner of the Top Plate with two (2) 6mm X 10mm SBHC Screw, as shown in Fig (10-1).

10-2: Attach the Left Handle Tube to the left back corner of the Top Plate with two (2)6mm X 10mm SBHC Screws, as shown in Fig (10-1).

10-3: Attach the Handle Brace onto both the Right & Left Handle Tubes with two (2) 6mm X 40mm SBHS, as shown in Fig (10-2).

Step 11: Bottom Plate Assembly

Parts Needed:

- 1- Bottom Plate
- 1-Bottom Plate Platform
- 2- Bottom Plate Extrusion End Cap A's
- 2- Bottom Plate Extrusion End Cap B's

11-1: Push two (2) Bottom Plate Extrusion End Cap A's into opposite corners of the Bottom Plate. Make sure both End Cap A's slide into the slots on the Bottom Plate Extrusions as shown in Fig (11-1).

11-2: Push two (2) Bottom Plate Extrusion End Cap B's into the remaining two corners of the Bottom Plate. Make sure both End Cap B's slide into the slots on the Bottom Plate Extrusions.

11-3: Remove the backing from the Double Sided Tape that is attached to the Bottom Plate Extrusion.

11-4 Apply the Bottom Plate Platform to the Bottom Plate. Press edges firmly into place until the platform has adhered completely into place, as shown in Fig (11-2).

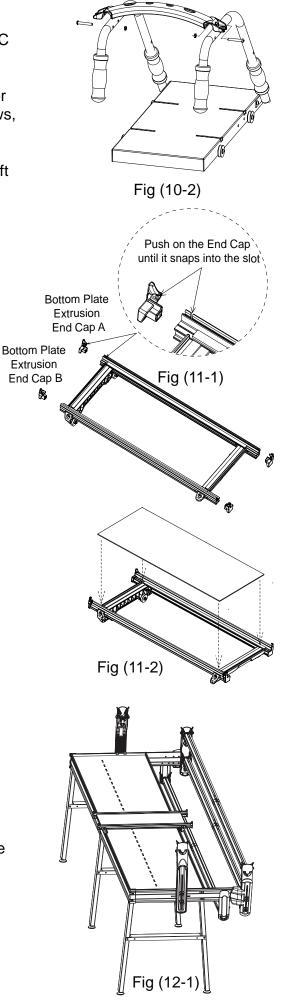
Step 12: Bottom Plate Placement

Parts Needed:

- 1- Bottom Plate Assembly
- 1- Table Assembly Complete

12-1: First, remove the Take-Up Rail from the Table Assembly. This is the Rail located over the middle of the table.

12-2: Place the Bottom Plate Assembly on the Table Assembly and make sure that all four wheels on the Bottom Plate are in contact with the Plastic Track. The Bottom Plate should roll smoothly on the Track.



Step 13: Top Plate Placement

Parts Needed:

- 1- Bottom Plate Assembly
- 1- Table Assembly Complete with Bottom Plate

13-1: Place the Top Plate Assembly onto the Bottom Plate, as shown in Fig (13-1). Make sure all four (4) wheels are on the track, located on the top side of the Bottom Plate, and that the Top Plate rolls smoothly.

NOTE: The Completely assembled Top Plate, with the Bottom Plate will be referred to as the Carriage thought-out the remaining text, except when the instructions refer to features only on one item or the other.

Step 14: Sewing Machine Placement

Parts Needed:

- 1- Sewing Machine (Your Sewing Machine)
 - 4- Sewing Machine Clamp
 - 1- Table Assembly Complete with Carriage

14-1: Place your Sewing Machine onto the Top Plate of the Carriage, and center it, both from side to side, as well as from front to back. As shown in Fig (14-2)

14-2: Pull the Sewing Machine Clamp Handle in the Open Position as shown in Fig(14-1); slide it into the slot as shown in Fig(13-2), Push the handle down to the lock the Clamp into position when it touches the Sewing Machine.

14-3: Roll the Carriage all the way to one end of the Table.

14-4: Now, put the Take-Up Rail through the open area of the throat of your Sewing Machine. Attach the Take-Up Rail as previously shown in the Step 9.

Step 15: Leveling the Table

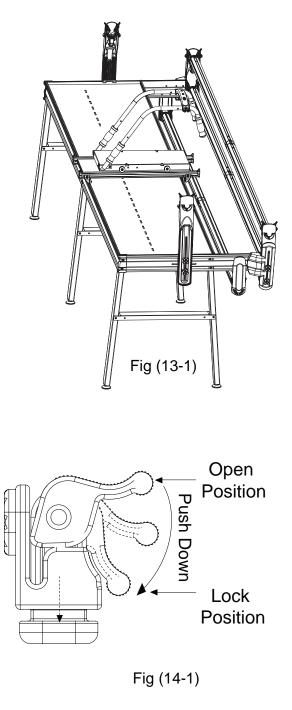
Now that you have completed the assembly of your Quilting Frame, adjust the Table so that it is Level.

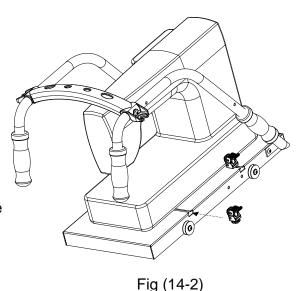
15-1: Adjust the Leveling Feet by screwing them in further to lower the table or unscrewing them to raise the table. The Carriage should not roll from side to side, or from front to back when it is left at any point on the table.

Congratulations! This completes your Quilting Frame Setup.

Please make sure that all screws are completely tightened before continuing.

Now you need to install your quilt fabric to the Quilting Frame. Detailed instructions explaining how to put your fabric onto the frame are located on Pg.13





Step 16: Crib Table and Frame End Assembly

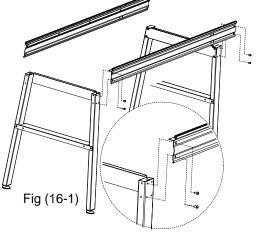
Parts Needed:

- 2- Outer Leg Assemblies
- 2- Crib Track Supports
- 1- Right & Left Frame End Sub-Assembly
- 1- Right & Left Frame Corner
- 16- 6mm X 10mm SBHC Screws
- 8- 6mm X 12mm SBHC Screws

Tools Required:

4mm Allen Wrench

NOTE: The maximum width for a quilt made in the Crib configuration is 50". We recommend that you build your Quilting Frame Queen size.

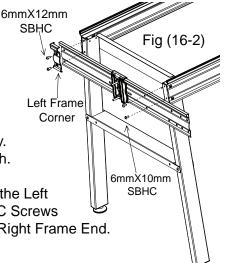


We recommend having someone hold up one end of the track support to help you with this step.

16-1: Secure each end of the Track Support to an Outer Leg Assembly with four (4) 6mm X 10mm SBHC Screws using the 4mm Allen Wrench as indicated in Fig (16-1). Attach the Track Support to the two Outer Leg Assemblies, with the Top Leg Brace is to the inside. Repeat this step to assemble the other side of the Frame.

16-2: Attach the Left Frame Corner to the Left Frame End as shown in Fig (16-2); Use two (2) 6mm X 12mm SBHC Screws through the Left Frame Corner and the Left Frame End into the Frame Assembly. Tighten the 6mm X 12mm SBHC Screws with the 4mm Allen Wrench.

16-3:Use two (2) 6mm X 10mm SBHC Screws to attach the front of the Left Frame End to the Frame Assembly. Tighten the 6mm X 10mm SBHC Screws with the 4mm Allen Wrench. Repeat 16-2 and 16-3 to complete the Right Frame End.

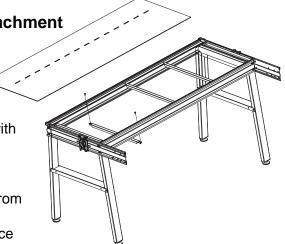


Step 17: Crib Table Supports & Table Surface Attachment Parts Needed: 1- Crib Table Surface

- 3- Tables Supports
- 6- 5mm X 10mm

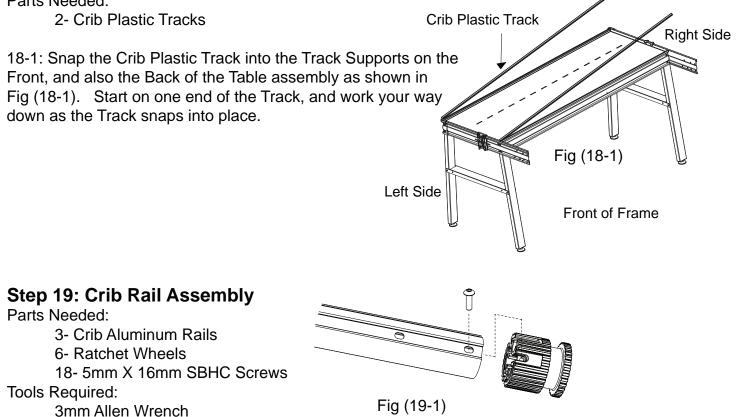
17-1: Attach all three (3) Table Support to the Track Support with the 5mm X 10mm SBHC Screws. The Table Braces are attached to the bottom side of the Track Support flange.

17-2: Start at one end of the Frame and remove the backing from the Tape on the Track and Table Supports. Make sure the TEXTURED side is facing UP. Line up the plastic Table Surface with the Top Leg Braces and press the surface firmly in place.



Step 18: Crib Track Attachment

Parts Needed:



19-1: Attach a Ratchet Wheel to one end of each rail with a 5mm X 16mm SBHC Screw, as show in Fig. (19-1). (Slide the Ratchet Wheel onto the Rail until you can see the entire hole in the nut); repeat this for all three (3) sides of the Ratchet Wheel on both ends of the rail. Follow above steps to complete the other Rails. Now return to page 9, step 7.

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

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

With the Grace - specially designed Fabri-Fast rails, installing you fabric is easier on the Grace Quilting Frames than on any other frame. Each rail has a Fabri-Fast slot and accompanying tubing. These components work together to make your fabric installation much easier and faster than using tape, tracks 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 12" longer and 2-4" wider than your top. This will allow for a little give in the backing, especially if using thicker batting.

Fabric Installation

Installing Fabric Layers onto the Rails (Preview): Center your cloth lengthwise along the rail. Using Grace's Fabri-Fast TM System, take a piece of plastic tubing (you should cut the tubing to 56 inches if you have set your frame up in the crib size), and holding your fabric over 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 tubing 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 (instructions on Pg. 16)**

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

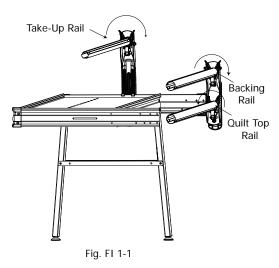
Step 1: Install Quilt Top to the Quilt Top Rail and roll up. Step 2: Install Backing to Backing Rail and roll up. Step 3: Attach Quilt Layers to Take-Up Rail.

Step 1: Quilt Top to Quilt Top Rail

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

1-2: 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.

1-3: Make sure that the Quilt Top Rail's Ratchet Lever is in the Center Ratcheting Position and ratchets as it rolls. This will ensure you roll the fabric in the correct direction. 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.

Step 2: Quilt backing to Backing Rail

2-1: 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 only limited by the size of the throat of your sewing machine.)

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

2-2: Place your quilt backing onto the table surface good side down. Line up the center of your backing 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.

2-3: Make sure that the Backing Rail's Ratchet Lever is in the **Center Ratcheting Position** and ratchets as it rolls. This will ensure you roll the fabric in the correct direction. Roll your backing onto the Backing Rail (See Fig FI 1-1) 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.

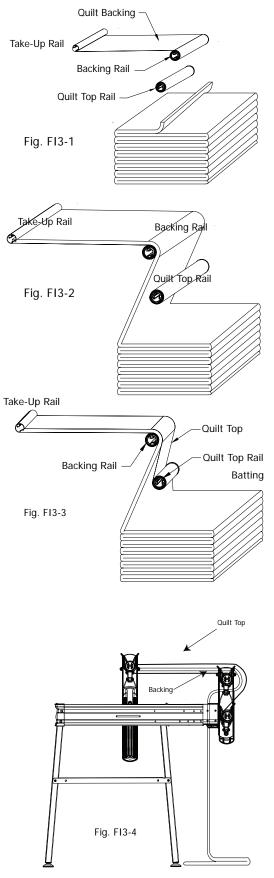
Step 3: Attaching Quilt Layers to the Take-Up Rail (See Fig. FI3-4).

3-1: Put the **Take-Up Rail's Ratchet Lever** into the **Center Ratcheting Position**, to ensure that it always rotates the correct direction.

3-2: Put the **Backing Rail's** Ratchet Lever into the side **Neutral Position.** Now 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. Put the Ratchet Lever back into the center **Ratcheting Position**, and roll the Backing Rail to apply just enough tension to the Backing fabric to keep the fabric flat. The fabric should be loose, but not sagging (See Fig. FI3-1).

3-3: Next, bring your **Batting** up in between the **Quilt Top Rail** and **Backing Rail** and drape it over the Backing. Lay it along the edge of the Take-Up Rail (See Fig. FI3-2).

3-4: Put the **Quilt Top's** Ratchet into the side **Neutral Position**. Now, bring the edge of the **Quilt Top** up over the **Backing** and **Batting** and lay it on 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 (See Fig. FI3-3). Put the **Quilt Top's** ratchet back into the **Ratcheting Position**. You are now ready to sew your desired patterns onto your quilt.



Rolling your fabric

When you have completed quilting your work area and are ready to roll to the next area, simply switch the Quilt Top, and Backing Ratchets into the neutral position, allowing them to roll freely. Roll the Take-Up Rail forward, rolling the sewn quilted area onto that rail. After you have advanced your quilt to the next location, switch each Rail's Ratchet Lever back to its ratcheting 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 Mount End as needed, so that the bottom of the rolled 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 when quilting a large quilt with a small sewing machine or when using very thick batting.)

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 Quilt Top 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.)

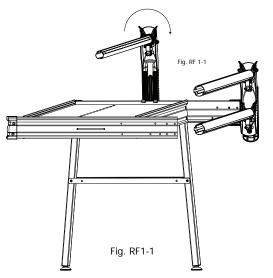
Step 4: Remove the Take-Up Rail (with quilt rolled onto it) and put it into the Front Rail Mount End where the Quilt Top Rail was located. Now put the other empty rail in the Take-Up Rail location, making it the New Take-Up Rail.

Step 5: Put the Backing Rail and the Quilt Top Rail Ratchet Levers in the side neutral position and pull the quilt up and over the Backing Rail and attach the quilt to the New Take-Up Rail, using the Fabri-Fast Tubing.

Step 6: Roll the quilt off of the new Quilt Top Rail, onto the New Take-Up Rail until it has reached the area of the quilt where you began basting.

Step 7: Place the Ratchet Lever on the Quilt Top Rail in the Center Ratcheting Position and roll the rail back to add a little tension to your fabric. You are now 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 by putting the Take-Up Rail's Ratchet Lever in the neutral position and rolling the Quilt Top Rail. Your finished quilt will now be rolled up onto the Quilt Top 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: Take-up Rail Leader – 4 inches

Backing Leader – 18 inches Quilt Top Leader – 24 inches

The recommended length is 110", 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 ½" 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 3/4" from the fold. This will leave about ¼" 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).

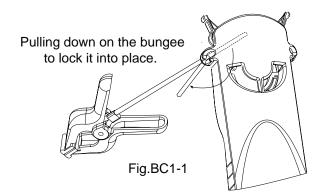
6: Mark (or baste) a straight line about ½" in from the opposite (non-hemmed, or non-dashed) end of the leader. This will be the line to which you attach your fabric layer.

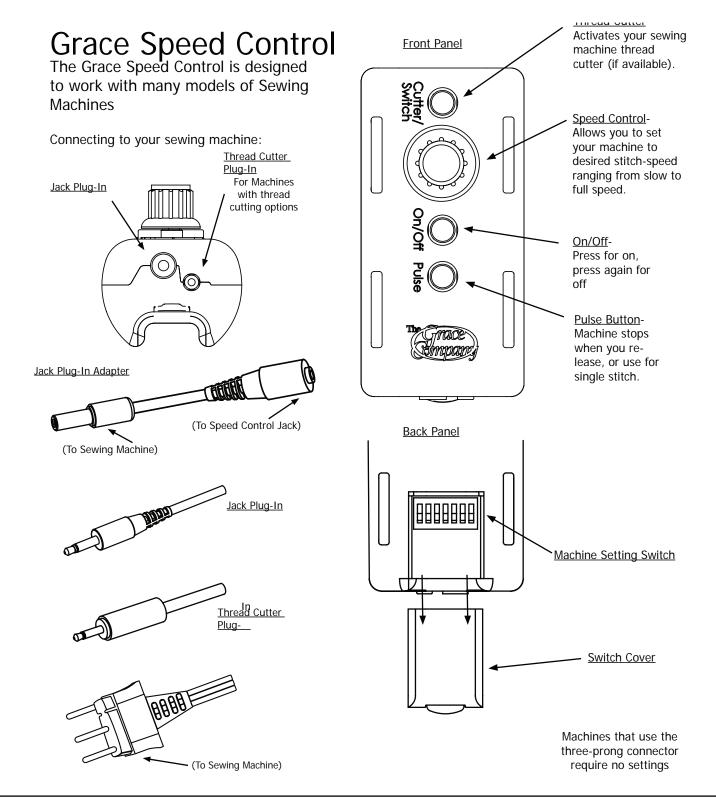
7: Center your cloth leader lengthwise along the rail. Using Grace's Fabri-Fast TM System, take a piece of plastic tubing (cut to the appropriate length), and, holding your cloth leader to the slot (lining up the dashed line), press the tubing over the leader and into the slot. Use the Fabri-Fast tool 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 four Bungee Clamps provided with your Mini Pinni 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 as shown in Fig. BC1-1, pulling it down to lock it into place.



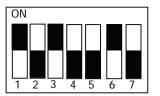


For Technical Assistance please contact:

The Grace Company 1-800-264-0644

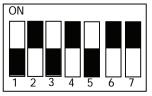
*The Grace Speed Control Switch is compatible with most DC-powered machines. DC-powered machines usually have a separate foot pedal plug in and power cord plug in. *

Setting 1



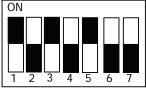
Juki / Singer black indicates switch position

Setting 2



Baby Lock / Brother Janome / New Home black indicates switch position

Setting 3



Bernina / Pfaff black indicates switch position

Optional Accessories

There are many optional accessories available for your Aluminum Frame Quilting frame. Check with your local dealer or visit www.graceframe.com to see all of the accessories available, as new items are being developed regularly.

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 its 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 large 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.

• Keeping the fabric on the Take-Up Rail just slightly above the bed of the sewing machine, yields the best results. If the fabric is too high off the bed, thread and needle breakage may occur. If it is pressing down on the bed of the machine it will be difficult to roll the sewing machine on the frame.

• 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 rails, check under the quilt to see that the back is smooth.