Hailey Quilting Frame
By TinLizzie

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Part List B

(1) Bottom Plate

(1) Top Plate

(1) Fabri-Fast Tool

(4) Bungee Clamp

(4) Sewing Machine Clamp Assembly

Hardware List

(108) 6mm x 10mm SBHCS (Socket Button Head Cap Screw)

(4) 6mm x 12mm SBHCS (Socket Button Head Cap Screw)

(6) Plastic Knob

(32) 8mm Jam Nut

(32) 8mm x 70mm Hex Bolt

(120) 5mm x 10mm SBHCS (Socket Button Head Cap Screw)

(24) 5mm x 16mm SBHCS (Socket Button Head Cap Screw)

(18) 5mm x 10mm Countersink Socket Head Screw

(10) 6mm Jam Nut

(6) 6mm x 35mm Hex Bolt

Tools Needed:
Open End Wrench (Provided)
3mm and 4mm Allen Wrenches (Provided)
Fabri-Fast Tool (to be used when installing your fabric)
**Step 1: Leg Sub Assembly**

Parts Needed:
- 8- Upper Leg
- 8- Lower Leg
- 8- Leveling Foot
- 4- Middle Leg Brace
- 4- Top Leg Brace
- 16- Leg Cantilever
- 48- 6mm x 10mm SBHCS
- 32- 8mm x 70mm Hex Bolt
- 32- 8mm Jam Nut

Tool Required
- 4mm Allen Wrench (provided)

1-1: Screw a leveling foot into the bottom of each of the Lower Legs, as shown in Fig. (1-1). Attach the Lower Leg to the Upper Leg using two (2) Leg Cantilevers, four (4) 8mm x 70mm hex bolts and four (4) 8mm jam nuts, as shown in Fig. (1-1). Make sure you attach the Lower Leg to the side of the Upper Leg with the four holes facing it, as shown in Fig. (1-1).

1-2: Lay two assembled legs down to simplify this step. Make sure the four holes at the top of the legs are to the outside and secure the Middle Leg Brace on the middle of the legs by using eight (8) 6mm x 10mm SBHCS, as shown in Fig. (1-2). Only finger tighten the 6mm x 10mm SBHCS in this step, you will tighten them later.

1-3: Secure the Top Leg Brace on the top of the leg with four (4) 6mm x 10mm SBHCS. Only finger tighten the 6mm x 10mm SBHCS in this step, you will tighten them later.

1-4: Repeat the first three steps to complete a total of four leg sub assemblies.

**Step 2: Middle Leg Assembly**  
(only needed for 8’ and 12’ Assembly)

Parts Needed:
- 2- Top Leg Brace
- 2- Leg Sub Assembly
- 8- 6mm x 10mm SBHCS

2-1: Use two of the leg sub assemblies from the previous step to help you complete this step.

2-2: Secure a second Top Leg Brace onto the other side of the leg with four (4) 6mm x 10mm SBHCS, leaving the screws finger tight only. Makes sure the two folds on the Top Leg Braces are to the inside, as shown in Fig. (2-1).
**Step 3: Frame Assembly (King Size only)**

**Turn to Step 16 to assemble your frame in crib size**

**Parts Needed:**
- 2- Leg Sub Assembly
- 2- Middle Leg Assembly
- 6- Track Supports
- 4- 144” Plastic Track
- 24- 6mm X 10mm SBHCS

**Tools Required:**
- 4mm Allen Wrench

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

3-1: Secure one end of a track support to a leg sub assembly, with the upper brace being on the inside, and the other end to a middle leg assembly with four (4) 6mm X 10mm SBHCS, as shown in Fig. (3-1). Only finger tighten the screws in this step, you will tighten them later.

3-2: Attach another track support to the middle leg used in the step above and then the other middle leg with four (4) 6mm x 10mm SBHCS, as shown in Fig. (3-1).

3-3: Attach another track support to the middle leg and the last leg sub assembly with four (4) 6mm x 10mm SBHCS, as shown in Fig. (3-1).

3-4: Attach the last three (3) track supports to the legs in the same manner as you did the first three.

3-5: Slide two pieces of track into the back and front track support, as shown in Fig. (3-2).
**Step 4: Frame End Assembly**

**Parts Needed:**
- 2- Take-Up Rail Fixture
- 1- Right Frame End
- 1- Left Frame End
- 2- Plastic Knob
- 6- 6mm x 35mm Hex Bolt
- 4- 6mm x 12mm SBHCS
- 4- 6mm x 10mm SBHCS

**Tools Required:**
- Open End Wrench

4-1: Put the two (2) 6mm x 35mm hex bolt into the Take-Up Rail Fixture, as shown in Fig. (4-1). Make sure the hex heads are seated into the countersinks on the Take-Up Rail Fixture.

4-2: Slide the Take-Up Rail Fixture down to the middle of the slot in the the left frame end, as shown in Fig. (4-2).

4-3: Slide an additional 6mm x 35mm hex screw into the Take-Up Rail Fixture, as shown in Fig. (4-3), and secure it with a plastic knob.

4-4: Repeat step (4-1) thru (4-3) to complete the right frame end.

4-5: Attach the left frame corner to the left frame by threading two (2) 6mm x 12mm SBHCS through the left frame corner and the left frame end into the frame, as shown in Fig. (4-4). Keep the screws only finger tight, till you are instructed to tighten them.

4-6: Use two (2) 6mm x 10mm SBHCS to attach the front of the left frame end to the frame assembly.

4-7: Repeat steps (4-5) and (4-6) to complete the right frame end.

4-8: Completely tighten all the screws from step 2 thru step 4.

**Step 5: Table Surface Attachment**

**Parts Needed:**
- 9- Table Support
- 3- Table Surface
- 18- 5mm x 10mm Countersink Socket Head Screw (flat head screw)

5-1: Attach all nine (9) Table Supports to the Track Support using two (2) 5mm x 10mm countersink socket head screw per support. The Table Brace will come up from the bottom with the screws going through the Track Support and then into the Table Brace. Make sure the side with the tape on the Table Brace facing up.

5-2: Remove the backing from the tape in one (1) foot sections, starting at one end of the frame. Line up the plastic Table Surface with the Top Leg Brace, and press firmly in place before removing the next one (1) foot section of tape backing. Make sure the textured side of the table is facing up. Repeat this process until the entire table surface is attached.

**Note:** (The slots cut in the Table Surface are closer to the back of the assembled table.) The slots are in the table to attach the Pattern Perfect and other optional accessories.
**Step 6: Frame End Assembly**

Parts Needed:
- 1- Left Take-Up Rail Mount End
- 1- Right Take-Up Rail Mount End
- 2- 4th Rail Mount End
- 1- Left Front Rail Mount End
- 1- Right Front Rail Mount End
- 1- Left Side Support Brace
- 1- Right Side Support Brace
- 4- Plastic Knob
- 24- 6mm x 10mm SBHCS
- 10- 6mm Hex Jam Nut

6-1: Slide the Left Take-Up Rail Mount onto the bolts sticking out of the Take-Up Fixture and then thread a plastic knob onto each bolt, as shown in Fig. (6-1).

6-2: Attach the Left Front Rail Mount End to the Left Frame End by threading four (4) 6mm x 10mm SBHCS through the frame end and into the front rail mount end, as shown in Fig. (6-2).

6-3: Attach a 4th Rail Mount End to the Left Frame End by threading three (3) 6mm x 10mm SBHCS through the frame and into the 4th Rail Mount End, as shown in Fig. (6-2).

6-4: Secure the Left Side Support Brace to the frame using five (5) 6mm X 10mm SBHCS and five (5) 6mm hex jam nuts, as shown in Fig. (6-3). Make the head of the screw on the outside of the frame end and track support.

6-5: Repeat 6-1 thru 6-4 for the right side of the frame.

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Fig. (6-1)

Fig. (6-2)

Fig. (6-3)
**Step 7: Rail Assembly**

**Parts Needed:**
- 8- Rail Coupler
- 12- 2” Aluminum Rail Section
- 8- Ratchet Wheels
- 120- 5mm x 10mm SBHCS
- 24- 5mm x 16mm SBHCS

**Tools Required:**
- 3mm Allen Wrench

7-1: Tighten three (3) 5mm x 10mm SBHCS into each rail coupler’s center hole.

7-2: Attach one (1) 2” aluminum rail section to one (1) rail coupler using six (6) 5mm x 10mm SBHCS, as shown in Fig. 7-1. On the other side of the coupler attach one (1) more 2” aluminum rail section using six (6) 5mm x 10mm SBHCS, and completely tighten the screws at this time. Repeat this step and assemble the remaining three (3) rails.

7-3: Attach a Ratchet Wheel to both ends of all four (4) assembled rails. Slide the Ratchet Wheel onto the rail until you can see the entire hole of the nut. Tighten three (3) 5mm x 16mm SBHCS into each Ratchet Wheel, as shown in Fig. (7-2).

**Step 8: Rail Attachment to Table Assembly**

**Parts Needed:**
- 4- 2” Rail Assemblies

**WARNING:** The Rail Mount Ends may become damaged if the rail is allowed to sag down while one end is attached to the Take-Up Rail Mount End, Front Rail Mount End, or the 4th Rail Mount End.

8-1: Slide one Ratchet Wheel of a 2” 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. (8-1). Repeat this step to attach the remaining three (3) 2” rail assemblies to the frame.
**Step 9: Bottom Plate Placement**

Parts Needed:
1- Bottom Plate
1- Table Assembly

9-1: First, remove the Take-Up-Rail from the table assembly, which is the rail located over the middle of the table.

9-2: Place the Bottom Plate on the table assembly and make sure all eight (8) wheels are in contact with the plastic tracks.

**Step 10: Top Plate Placement**

Parts Needed:
1- Top Plate
1- Table Assembly

10-1: Place the Top Plate onto the Bottom Plate, as shown in Fig. (9-1). Make sure eight (8) wheels are in contact with the plastic tracks (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 through-out the remaining instructions, except when the instructions refer to features only on one item or the other.

**Step 11: Sewing Machine**

Parts Needed:
1- 18” or 26” Tin Lizzie Sewing Machine
4- Sewing Machine Clamp
1- Table Assembly

11-1: Place your Sewing Machine onto the Top Plate of the carriage, and center it front to back and side to side, as shown in Fig. (11-1).

11-2: Pull the Sewing Machine Clamp handle in the open position, as shown in Fig. (11-2). Slide the Sewing Machine Clamp into the slot, as shown in Fig. (11-1). When the clamp touches the sewing machine push the handle down to lock the clamp into position.

11-3: Roll the carriage all the way to one end of the table.

11-4: Put the Take Up Rail through the throat of your sewing machine. Attach the Take-Up-Rail, as previously shown in step (9-1).
Step 12: Leveling the Table

Now that you have completed the assembly of your Hailey Quilting Frame, it is time to level the table.

12-1: 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 front to back when it is left at any point on the table.

Congratulations! This completes your quilting frame setup. Please make sure all screws are completely tightened before continuing. Now you need to install your quilt fabric on the quilting frame, and detailed instructions, explaining how to put your fabric onto the frame, are located on page 14.

Step 13: 4 ft Frame Assembly

Parts Needed:
- 2- Leg Sub Assembly
- 2- Track Support
- 1- Right Frame End
- 1- Left Frame End
- 1- Right Frame Corner
- 1- Left Frame Corner
- 4- 48” Plastic Track
- 12- 6mm x 10mm SBHCS
- 4- 6mm x 12mm SBHCS

Tools Required:
- 4mm Allen Wrench
- Open End Wrench

13-1: Please use the same method used in step 4 to finish 4-foot table assembly, as shown in Fig. (13-1).

13-2 Please use the same method used in Step (4-6) to finish 4-foot track attachment, as shown in Fig. (13-2).

Step 14: 4 ft Foot Frame Table Surface Attachment

Parts Needed:
- 3- Table Brace
- 1- Table Surface
- 6- 5mm x 10mm Countersink Socket Head Screw

14-1: Please use the same method used in Step 5 to finish 4-foot table surface attachment, as shown in Fig. (14-1).
**Step 15: 8 ft Frame Assembly**

Parts Needed:
- 2- Leg Sub Assembly
- 1- Middle Leg Assembly
- 2- Track Support
- 1- Right Frame End
- 1- Left Frame End
- 1- Right Frame Corner
- 1- Left Frame Corner
- 4- 96” Plastic Track
- 20- 6mm x 10mm SBHCS
- 4- 6mm x 12mm SBHCS

Tools Required:
- 4mm Allen Wrench
- Open End Wrench

15-1: Please follow the same method used in step 4 to finish 8-foot table assembly, as shown in Fig. (15-1).

15-2: Please follow the same method used in Step 4 to finish 8-foot track attachment, as shown in Fig. (15-2).

**Step 16: 8 ft Frame Table Surface Attachment**

Parts Needed:
- 3- Table Braces
- 1- Table Surface
- 12- 5mm x 10mm Countersink Socket Head Screw

15-1: Please use the same method used in Step 5 to finish 8-foot table surface attachment, as shown in Fig. (16-1).
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 your 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 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 doesn’t matter. The important thing to watch when rolling the batting is that the batting is not stretched. Always keep the ratchet lever on the batting rail in the Neutral Position (Right or Left Side) to prevent any tension from being applied to the batting (See Fig.Fl 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.

2-3: 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 3: Quilt backing to Backing Rail**

3-1: To begin, determine which will be the front and back edge 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 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 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.

3-3: 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 Fl 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 4: Attaching Quilt Layers to the Take-Up Rail (See Fig. Fl4-4).**

4-1: Put the Take-Up Rail’s Ratchet Lever into the center ratcheting position, to ensure that it always rotates in the correct direction.

4-2: 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 fabric fast tubing. Be careful not to 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. F14-1).

4-3: Next, bring your Batting up 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. F14-2).

4-4: 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 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 (See Fig. F14-3). 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, simply switch the Quilt Top, and Backing Ratchets into the neutral position, allowing them to roll freely. The Batting Ratchet should already be in the neutral position. 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 except the batting rail, 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 8: 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 to install into the rail slot.

2: Serge 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 a straight line. (OPTIONAL: For 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. 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 with the 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 Pinnacle 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.
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 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 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.