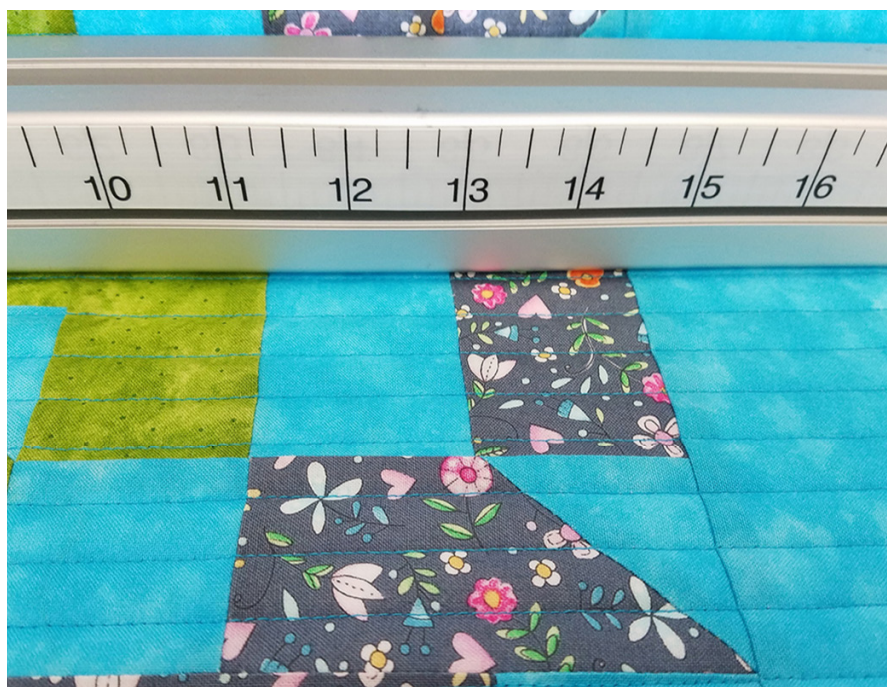
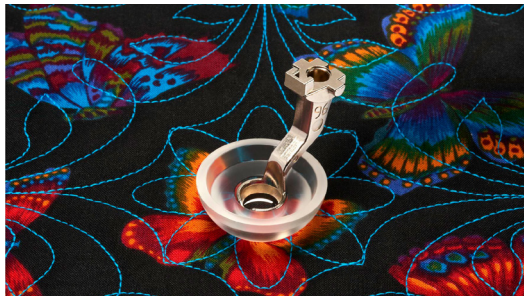
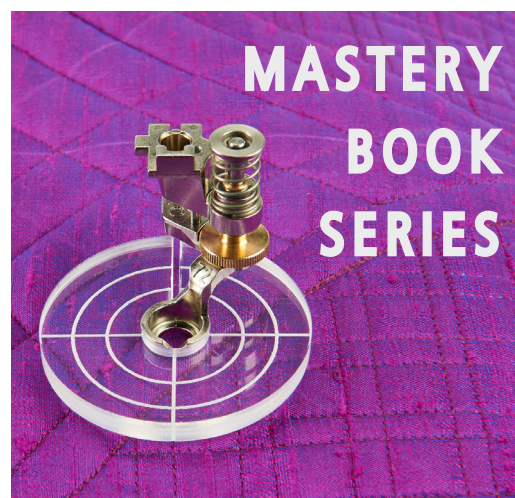


# MY BERNINA



## BERNINA Q SERIES ACCESSORIES WORKBOOK



made to create **BERNINA**

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# INTRODUCTION

Welcome! Using your BERNINA Longarm offers you beautiful and regulated quilting, a tremendous advantage in finishing your quilted items. Add accessories to your longarm for a variety of reasons including increasing the creative options you can use on your quilted projects.

Whether quilting on the frame or table, understanding how these accessories work with your machine will expand your creative journey and allow you to enhance or change your quilting style with each project. This workbook is designed for you to experience the accessory features through a series of introductory exercises. Once completed, the workbook can serve as a technique reference guide.

BERNINA of America strives to provide quality quilting, sewing and embroidery machines while offering the best educational experience available. Your BERNINA dealer may offer additional educational programs and is a great resource for support.

Instructional video tutorials are available on [bernina.com](http://bernina.com) and the BERNINA YouTube channel. You will also find inspiring quilting projects on the BERNINA blog [WeAllSew.com](http://WeAllSew.com). Visit the BERNINA website at [bernina.com](http://bernina.com) to keep abreast of the new accessories available for your BERNINA Longarm machine.



[www.bernina.com](http://www.bernina.com)  
[www.weallsew.com](http://www.weallsew.com)



# FRAME ACCESSORIES

## HYDRAULICS

The hydraulic lift system for the BERNINA Large and Classic Frames allows simple height adjustments of the frame with the touch of a button. (Does not apply to the Studio Frame.) Adjust the frame height for comfort and as a preference for certain quilt techniques.



1. After installing the hydraulic lift according to the manual, you can raise and lower the frame with the touch of the button. The switch to raise and lower the frame is installed on the front bar for easy access.
2. To find the optimal working height, bend your arm at the elbow with arms at sides. The bottom of the elbow should be even with the stitch plate or the top of the backing rail. Some users prefer the frame to be a little lower when doing rulerwork, and a little higher when doing micro work, while others prefer to do just the opposite. Experiment with raising and lowering the frame for various techniques to find your optimum height for each technique.



Click the icon for video:  
Hydraulics

## CASTERS

Fit your frame with casters for easy repositioning.

1. To secure the frame in place, lock each of the 6 casters.
2. If there is a need to move the frame, you should re-level it. A level frame is always easier to work with and makes the quilting look great.



Click the icon for video:  
Casters



# FRAME ACCESSORIES

## PALM PRECISION HANDLES

The Palm Precision Handles available for the Q Series machines allow the ergonomic and controlled handling of the machine, even when quilting for hours. They are perfectly suited for micro work, filling small areas, doing detail work or quilting a Trapunto effect.

### Installation

The Palm Precision Handles are mounted directly on the longarm machine's head and replace the standard handles.

1. Turn off machine.
2. Following the Installation guide that comes with the handles, unplug the left standard handle and plug in the Palm Precision Handle marked left.
3. Unplug the right handle and plug in the right Palm Precision Handle marked right.
4. Program the functions for the handles in the same manner as the standard handles.
5. Adjust the handles so they ride just above the quilt top.
6. Turn on machine.



### Working with the Palm Precision Handles

1. The hands should lie comfortably on the handle controls with the thumb above the RED safety knob.
2. The fingers may overlap the control buttons, until a comfortable position is found. In some cases, a sitting position may work best with your forearm resting on the Backing Rail.
3. When using any function that moves the needle, the RED Safety Knob will need to be used.
4. Press the RED Safety Knob and hold and press the function needed. Release both. To stop stitching simply press the Start/Stop button.



Click the icon for video:  
Palm Precision Handles

# FRAME ACCESSORIES

## ZIPPERED LEADERS

The BERNINA Zippered Leaders have many benefits for the quilter, especially when working on more than one quilting project at a time. (Not available for the BERNINA Studio Frame.)

Instead of pinning the backing and lower end of the quilt top directly to the leaders on the frame, the fabric is pinned or even machine basted to the respective smaller zippered parts of the leaders and then zipped onto the main part. Additionally, the quilting project, although unfinished, can be changed with ease by zipping off one and zipping on another. The started project will remain square and can easily be put on the frame again in just a few steps.

With each set of Zippered Leaders you will receive 2 extra zip on parts for each leader. The BERNINA Zippered Leaders are available for all three sizes of the frame. They are easy to attach following the enclosed instructions or using the same method as the standard leaders were installed.

The option to purchase extra zip-on parts of all three leaders is available.



Click the icon for video:  
Zippered Leaders

# RULERWORK

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Rulerwork is the use of specialized quilting rulers to create accurate, repeatable designs. Using a rulerwork ruler and a ruler foot where all edges of the foot are 1/4" from the needle, you can create straight lines, curved lines, scallops, waves, and specific designs while free-motion quilting.

Rulerwork presser feet have a thick outside edge on the foot, called the "fence" that keeps the ruler from sliding under or over the foot. Rulers used for rulerwork are acrylic templates that are 1/4 to 3/16 inch thick and meant for holding against a ruler foot. BERNINA has two sets of 1/4 inch rulers available. One set is designed for the table model quilter, and one set designed for the frame quilter. However, either set can be used in either quilting situation.

Note: While rulerwork has been a traditional longarm technique, it can also be done on a domestic machine, but without stitch regulation. Use Adjustable Ruler Foot #72 or #72S with rulers, and the stitch length is determined by the speed the fabric is moved.

## SUPPLIES NEEDED FOR RULERWORK

- Ruler Foot #96 or Adjustable Ruler Foot #72 or 72S
- Needlepoint Laser (optional accessory)
- Rulerwork Kit (frame model only)
- Rulers
- Quilt Sandwich basted with preferred basting method (Table Model)
- Fabric loaded on the frame (Frame Model)
- Thread for the Top & Bobbin
- Size 90 Jeans Needle

# RULERWORK, CONT.

## FRAME SETUP WITH RULERWORK KIT

Use the Rulerwork Kit with your BERNINA Q Series Quilt Frame. The Kit consists of the Ruler Base, Ruler Foot #96, and a straight-edge Ruler.



1. Snap the base around the stitch plate. The base provides a flat surface to support the ruler.
2. Attach Ruler Foot #96 or Adjustable Ruler Foot #72/72S and insert the needle.
3. Set Needle Stop Down.
4. Select BSR Mode 2.
  - BSR Mode 2 is recommended for rulerwork because the needle stops when the machine stops, making it easy to reposition the ruler. However, it is always a good idea to turn off stitching to reposition the ruler.
5. Activate the Needle Point Laser. The laser helps to align your needle position. The Needle Point Laser can be turned on or off as needed.
6. Decide the starting point and drop the needle and the foot.
7. Bring up the bobbin thread.
8. Snug the ruler up against the foot and take a few stitches to secure.
9. Guide the foot against the ruler applying light pressure.
  - Tip: There are various aids to keep the ruler from slipping, from rubberized strips to sandpaper like strips.
10. On the frame, the head is moved while the ruler and fabric are stationary.
11. Stop with needle down and tie off the threads, or continue by repositioning the ruler for more quilting.



To remove the base from the frame, pull out on one of the latches on the back of the base. Lift the base to disengage it. Turn the base and slide it off the machine.



# RULERWORK, CONT.

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## RULERWORK SETUP FOR TABLE

1. Attach Ruler Foot #96 or Adjustable Ruler Foot #7272S. If using Adjustable Ruler Foot #72/72S, adjust the sole to the proper height.
2. Set the needle to stop down.
3. Select BSR Mode 2.
  - BSR Mode 2 is recommended for rulerwork because the needle stops when the fabric stops, making it easy to reposition the ruler. However, it is always a good idea to turn off stitching to reposition ruler.
4. Activate the Needle Point Laser. The laser helps to align your needle position. The Needle Point Laser can be turned on or off as needed.
5. Decide the starting point and lower the needle and the foot.
6. Bring up the bobbin thread.
7. Place the ruler up against the foot and take a few stitches to secure.
8. Use the edge of the ruler as a guide for the foot.
9. Place enough pressure on the ruler to move the fabric and ruler at the same time.
  - Tip: There are various aids to keep the ruler from slipping, from rubberized strips to sandpaper like strips.
10. Stop with needle down and tie off the threads, or continue by repositioning the ruler for more quilting.

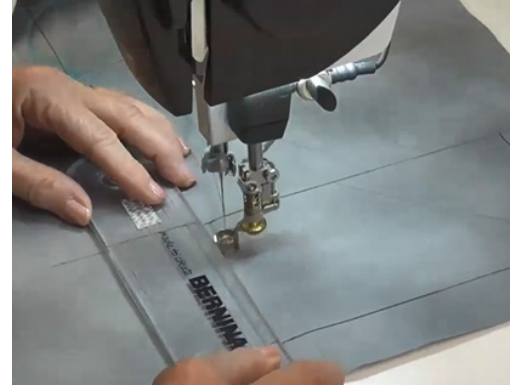


Click the icon for video:  
Frame Setup for Table

# RULERWORK TECHNIQUES

## RULERWORK TECHNIQUES—STRAIGHT LINES

1. Whether echoing a seam line, stitching in the ditch or working in an open area, stitch a straight line using a straight edge ruler as a guide.
2. Hold your hands on the ruler where the stitching is happening. Don't try to stretch your hand too far; it is better to stop and move your hand when needed.
3. Decide how far apart the straight lines should be. Standard spacing might be 1/4" or 1/2".
4. If stitching 1/4" spacing, stitch away from the previously sewn line until it is against the outside edge of the ruler. Place the edge of the straight ruler on the stitched line. The edge of the ruler foot should be against the ruler.
5. Repeat until the area is filled with lines 1/4" apart.
6. Similarly, to get 1/2" spacing, stitch 1/2" away from the first stitching line. Lay the first etched line of the ruler on top of the stitching line. Place the edge of the ruler against the foot and stitch.



## RULERWORK TECHNIQUES—CURVES INSIDE THE RULER

1. Begin by marking horizontal and vertical centering lines on the fabric.
2. Use the Nested Circles from the BERNINA Ruler Kit for Table models.
3. Remove the two inner circles turning the key to complete the 3" circle ruler.
4. Slide the ruler under the foot.
5. Pull up the bobbin thread at the intersection of the two centering lines. Secure.
6. Lower the needle and the presser foot.
7. Place the bottom of the inner circle against the front of the ruler foot. Line up the vertical centering line etched in the ruler with the drawn vertical line.
8. Stitch around the complete circle, beginning and ending at the intersection of the two lines.
9. Do not cut the thread.
10. Slide the ruler to the right and place the left inside edge of the ruler against the left side of the rulerwork foot.
11. Stitch another circle.
12. Repeat the process until you have four circles, one on each line.
13. Remove the 3" circle ring, turn the key to complete the 4" circle. Repeat the process with the 4" circle.



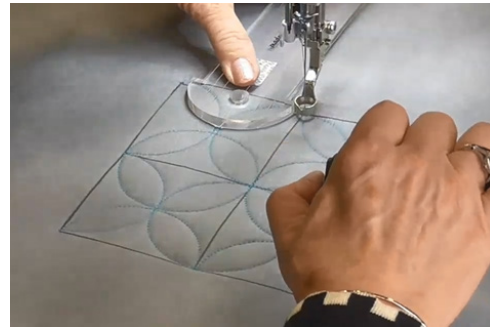
Click the icon for video:  
Rulerwork Techniques

# RULERWORK TECHNIQUES, CONT.

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## RULERWORK TECHNIQUES—CURVES OUTSIDE THE RULER

1. Draw a 6" square on the fabric and divide it in quarters so that you have 4—3" squares.
2. Use the rounded end of the BERNINA Mini Straight Line Tool.
3. Lower the needle into the upper left hand corner of the 6" square, pull up the bobbin thread and secure.
4. Lower the needle and the foot.
5. Lay the rounded end of the ruler against the foot so that the notches on the ruler are on the outside line of the square and the other side of the half circle is 1/4" from the center horizontal line.
6. Stitch around the outside curve, hugging the ruler as you go.
7. Stitch this curve on every line of the 4—3" squares always orientating it to the inside.
8. The object is to stitch all in one motion, without having to pull the bobbin thread and start again.



# RULER FEET

1. There are two ruler feet available for the Q Series machines:
  - Ruler Foot #96.
  - Adjustable Ruler Foot #72.
  - Adjustable Ruler Foot #72S.
2. Both feet are 1/2" feet, meaning that the edge of the foot is 1/4" from the needle on all sides.
  - When a ruler lays against the foot, the stitching will be 1/4" from the ruler.
3. Both feet have a "V" on the front of the foot that lines up with the needle. The Adjustable Ruler Foot #72 and #72S also have markings inside the foot on the sides and back that line up with the needle.
4. Traditional 1/4" thick rulers work 360 degrees around both feet.
5. Adjustable Ruler Foot #72 and #72S foot have height adjustability for different thicknesses of batting.
6. Adjustable Ruler Foot #72/72S feet are also domestic machine foot.
7. Both ruler feet have additional accessories.
  - Echo Clips fit all feet.
  - Couching Inserts are available for the Adjustable Ruler Foot #72/72S only.
  - The Cup Clip is available for the Ruler Foot #96 only.



**Ruler Work Foot #96**



**Adjustable Ruler Foot #72**



**Adjustable Ruler Foot #72S**



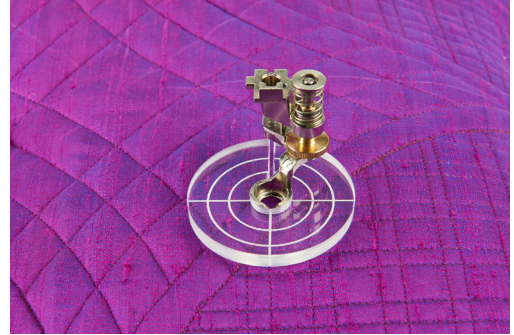
Click the icon for video:  
Ruler Feet

# ECHO CLIPS

There are three Echo Clips that attach to the Ruler Foot #96 or the Adjustable Ruler Foot #72/72S. The Echo Clips allow for 1/2", 3/4", or 1" echoing from your ruler or guideline.

## ECHO CLIP SUPPLIES

- Echo Clips
- Ruler Foot #96 or Adjustable Ruler Foot #72/72S
- Ruler or Design of Choice



## QUILTING WITH ECHO CLIPS

1. Remove the foot from the machine. Select the desired Echo Clip and slide it onto the sole of the foot. There is a slit on the back of each Echo Clip so that thread need not be cut. The Clip should fit onto the sole snugly.
2. The slit on the ring goes to the back of the foot. The quadrant lines on the clips match the lines on the #72/72S foot. The front quadrant line should line up with the "v" cut-out on the #96 foot.
3. The bottom of the clip has etched lines as well as a ridge. The clip should be put on the foot so the foot sits in this ridge and the etched line are on the bottom.
4. Push the foot down into the clip. Make sure the clip is firmly attached. Attach the foot to the machine.
5. Keep your ruler in the same place as the last row of echoing and align the edge of the echo clip with the edge of the ruler and sew.
6. Continue with the same clip for the same echo spacing or repeat with the remaining two clips.
7. To remove the clip, gently wiggle it free. Remove the foot from the machine to remove the clip.
8. If it is very tight, use a small flat head screwdriver to assist. Place it in the slit and gently twist it as you wiggle the clip off.



Click the icon for video:  
Echo Clips

# PANTOGRAPH

## SETUP FOR PANTOGRAPH KIT

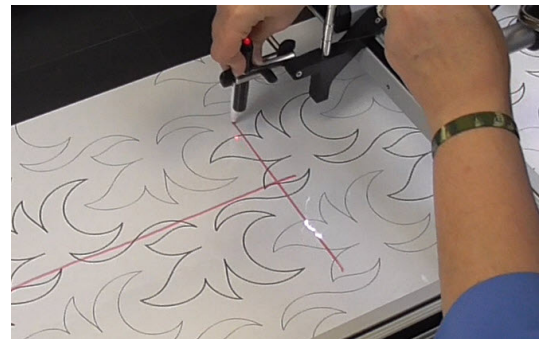
Using a Pantograph Kit (not available for Studio Frame and Q 16) is a great way to learn to guide the machine for patterns. The pantograph kit includes everything needed to easily stitch edge-to-edge designs. Stitch beautiful motifs following commercial paper templates or your own creations. You will also be able to use Groove Boards.

Commercial paper templates and Groove Boards are readily available at local shops, quilt shows or online. Some sites have free samples that can be printed and used.

With the kit installed according to the installation guide, lay the paper pantograph on the back side of the frame. Place the clear plastic over the pantograph. Both may need to be cut depending on the size of the frame. You are ready to begin working with the pantograph.

The quilt should be loaded and basted across the top and sides.

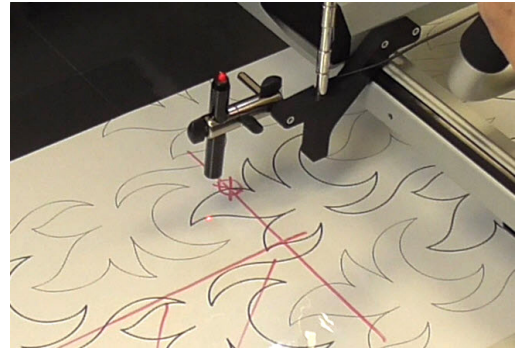
1. Lock the machine on the carriage with the horizontal Channel Lock. Hold the dry erase marker close to the laser light. As you move the carriage with your other hand, draw a line through the design onto the clear plastic. This line is the top boundary of the quilt.
2. Place the machine at the side of your quilt top and mark on the plastic cover.
3. Mark out (or strike through) the part of the design that you will not need to stitch for the top edge of the quilt.
4. Drop the needle at the top edge of the quilt top and roll back the loaded quilt until the top of the quilt matches with the laser at the line created for the top of the design.
5. Firm up quilt.
6. Attach the Cup Clip (optional accessory) to Ruler Foot #96 and attach the foot to the machine. The shape of the Cup Clip prevents the foot from catching on the edges of the quilt.



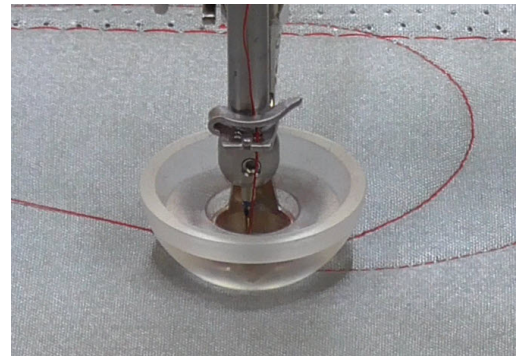
Click the icon for video:  
Pantograph, Cup Clips, Metal Stylus

# PANTOGRAPHS, CONT.

7. Place machine on the first stitch of your pantograph and bring up bobbin thread. Secure with the Securing Stitch from the front of machine.
8. Move to the back of machine. Touch any toggle to activate the back screen and start stitching. Follow the design on the pantograph. Be sure to avoid the areas marked out so that you will not stitch them. Carefully following the line, the machine will stitch on the quilt. This will become easier the more you do it. The handles are adjustable and can be placed where you are most comfortable.

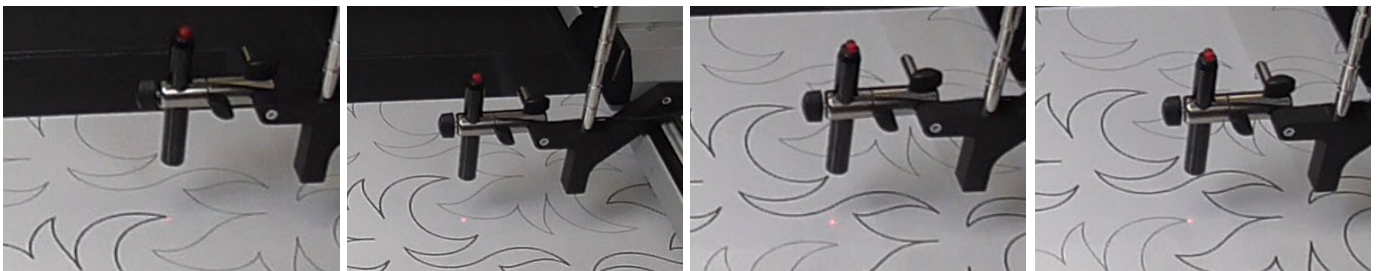


9. Erase the line in the middle and the part that was marked out when you are finished with the top. These steps will be repeated for the last row stitched. Leave the side marks so that you know where to start and stop each row.
10. When the row is finished, move to front of frame and drop needle at one of the already stitched points



11. Unlatch Backing and Quilt Top Rails to advance the quilt.

12. From the back you can see the laser move from the location where the needle was dropped to the new location of the same point in the ghost or the lighter colored line. This is what keeps your spacing between the rows even.



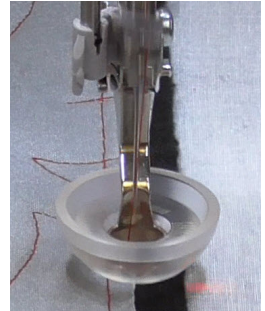
13. Firm up the quilt and latch the rails. Raise the needle.
14. Place the machine on the start point again, bring up bobbin thread and secure. Move the machine from the back and stitch out a full-pattern second row.
15. Repeat the steps for advancing the quilt, lining up the rows, and stitching out. Take a step back and look how great the rows nest.

# PANTOGRAPHS, CONT.

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## CUP CLIP

The Cup Clip on Ruler Foot #96 is great for stitching over the edges of your quilt with the pantograph designs. It is cupped and large enough that it will not catch under the edge of the fabric. The Cup Clip also glides easily and comfortably over thick and uneven surfaces for perfect stitching.



## USING THE METAL STYLUS WITH GROOVED BOARDS

The Metal Stylus also comes with the Pantograph Kit to use with Groove Boards.

1. Place your needle where you want to start and secure.
2. At the back of the frame, place the groove board on the surface where the pantograph was.
3. Place the stylus in the groove where you want to start.
4. Press any toggle on the back to activate the back screen and start stitching.
5. Gently move the machine in the groove to stitch the design.

Moving the machine at a smooth steady rate will always give a nice stitch out.





# COUCHING

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## FREE-MOTION COUCHING FOOT #43, ADJUSTABLE RULER FOOT #72/72S, AND COUCHING INSERTS

Couch yarns onto quilting projects to add detail and emphasis whether working on the frame, table, with Q-matic or pantographs.

There are two feet available for couching on the Q Series machines. Free-Motion Couching Foot #43 is used to couch cords approximately 2 mm in width, and Adjustable Ruler Foot #72/72S with three inserts is used to couch cords or yarns 1.4 mm, 1.8 mm and 2.2 mm. For both feet, use cords or yarns that are flexible and fill the chosen couching foot.



### At the Frame

Supplies

- Backing, Batting and Quilt Top loaded on the frame
- Free-Motion Couching Foot #43 or Adjustable Ruler Foot #72/#72S with Inserts
- Cord or Yarn
- Needle thread to match the cord
- Bobbin Thread same as needle
- 90 Jeans Needle

### At the Table

Supplies

- Quilt Sandwich with layers basted together
- Free-Motion Couching Foot #43 or Adjustable Ruler Foot #72/72S with Inserts
- Cord or Yarn
- Needle Thread to match the cord
- Bobbin Thread same as needle
- 90 Jeans Needle



Click the icon for video:  
Couching Inserts and Foot #72  
Gripper Rings

# COUCHING, CONT.

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## MACHINE SETUP

### Cord Placement 1

1. The Q Series is threaded through the normal path.
2. Place the cording spool on the right spool pin on the top of the machine.
3. Run the cording up to the thread stand through the guide above the cord. Pull the cord across to the front guide on the thread stand. The cord will share this guide with the needle thread.
4. Let the cording lay along the left side of the machine.



### Cord Placement 2

1. The Q Series is threaded through the normal path.
2. Place the cord on the Horizontal Spool Holder.
3. If the spool has a large opening, insert two medium spool caps, one at each end.
4. Let thread fall from the spool to the foot.



# COUCHING, CONT.

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## THREADING THE FOOT

### Free-Motion Couching Foot #43

1. Thread the cord through the presser foot using the wire threading aid included with the foot.
2. The cord enters the foot from the side and then down through the center hole.
3. The cord should fill the hole and flow through the foot smoothly.
4. Place the foot on the machine.



Click the icon for video:  
Free-motion Couching Foot #43

### Adjustable Ruler Foot #72/72S

1. Use the dial to raise the sole of Adjustable Foot #72/72S to the highest position.
2. Choose the correct size insert, 1.4 mm, 1.8 mm or 2.2 mm. Snap into place.
3. Thread the cord through the center of the insert.
4. Place the foot on the machine. Lower the foot.
5. Using the dial on the foot, lower the sole of the foot so that it is just above the fabric and the fabric moves freely under the foot.



Click the icon for video:  
Couching Inserts and Foot #72  
Gripper Rings

# COUCHING, CONT.

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## BEGINNING TO SEW

1. Pull up the bobbin thread and secure.
2. Hold the cord tail and thread tails when starting to quilt. After stitching a few stitches, cut the thread tails. The excess cord tail may be cut to the fabric or threaded through a large eye needle and run into the layers of the quilt.
3. Begin couching the design. Start with a meandering or stippling pattern, and then try other designs.
4. The Adjustable Ruler Foot #72/72S with Inserts may also be used with quilting rulers while couching.
5. On the Q Series machines, the couching is stitch-regulated because of the built-in BERNINA Stitch Regulators.
  - If on the frame, move the sewhead in a steady motion.
  - If on the table, move the fabric in a steady motion.
6. Pull excess cord off the spool and help guide it through the foot.
7. If using Q-matic, all you need to do is watch the cord, guiding it if necessary.
8. When stitching is finished, secure the sewing threads and trim. Thread the cord tail through a large eyed needle and run the tail into the layers of the quilt.



Click the icon for video:  
Tips for Couching Success

# DOUBLE NEEDLE QUILTING

## MACHINE SETUP AND THREADING

Double needle stitching is a unique way to show off quilting designs. Two lines of stitching that have a ribbon like effect, enhance many quilting designs. Double needle stitching may be done on both the table and frame model Q Series machines. Double needle stitching may also be used with Q-matic designs.

### Supplies:

- Double Needle Stitch Plate
- Double Needle (maximum size: 4.0 mm)
- Hand needle threader (included accessory)
- Foot that can accommodate the wider needles, such as Freehand Embroidery Foot #24
- Table Model: quilt sandwich basted together
- Frame Model: backing, batting and quilt top loaded on the frame



Click the icon for video:  
Machine Setup for  
Double Needle Quilting

### Machine Setup:

1. Remove standard stitch plate.
2. Attach twin needle stitch plate.
3. Insert the double needle (no larger than 4.0 mm).
4. Attach the presser foot.
5. With the foot up, thread one needle at a time.

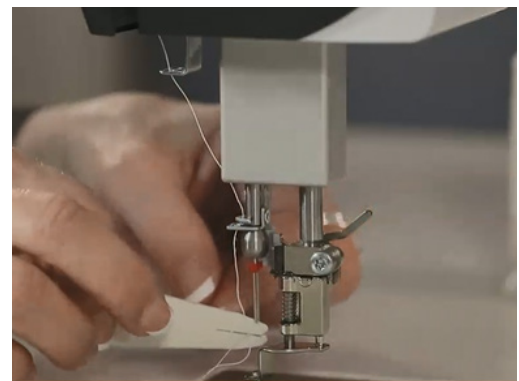


### Threading—Right Thread:

1. Place a spool of thread on the right spool holder.
2. Bring the thread straight up to the guide on the thread stand. Bring across to the front guide on the left.
3. On the left side of the machine, slide the thread into the upper front thread guide and under the second guide.
4. Bring thread across the machine into the back side of the tension disc, down under the check spring and through the eye of the take up lever back to front.
5. Bring the thread straight down. When you get to the first thread guide above the needle, thread it through the hole on the right. Go behind the c clamp and through the guide above the needles and thread the right needle using the manual threader.

### Threading—Left Thread:

1. Place a spool of thread on the left spool holder.
2. Pull the thread straight up through the guide on the thread stand and through the front guide on the thread stand.
3. On the left side of the machine, slide the thread into the upper back thread guide and under the second guide.
4. Bring thread across the machine into the front side of the tension disc.
5. The rest of the threading is the same as usual, except when you get to the first guide above the needle, place the thread through the left hole. Sometimes folding the thread in half and twisting it makes it easier to thread. Thread behind the c clamp, through the guide above the needles and thread the left needle with the manual threader.

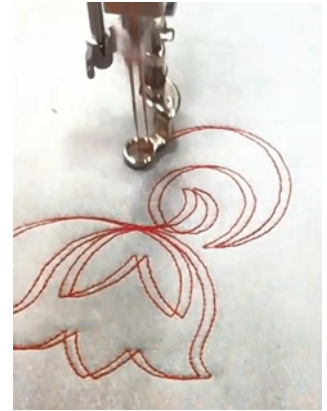


# DOUBLE NEEDLE QUILTING, CONT.

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## STITCHING

1. Pull up the bobbin thread and secure.
2. Stitch at a slow, steady pace. If stitching in Q-matic, slow the machine down using the Slide/Speed Control.
3. The upper tension may need to be set a little lower.
4. When stitching side to side, the needles stitch a single straight line as the needles are in alignment with each other. When stitching up and down, there will be two parallel lines of stitching. All other stitching takes on a ribbon-like look.
5. Match the bobbin thread to the backing to minimize the double thread look on the back of the quilt.
6. Stitch out a motif. Pull up bobbin thread and secure.



# DOUBLE NEEDLE QUILTING, CONT.

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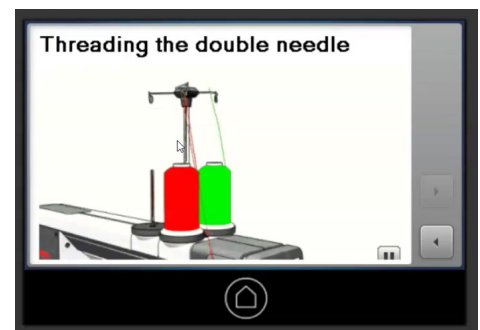
## TIPS FOR SUCCESS

- One of the most important things when using double needles is to slow down.
  - A slow steady pace is better than a faster jerky pace with a lot of stopping and starting.
- If using BSR1, you may want to slow the idle speed of the needle.
- You may also want to lower the upper tension.
- When quilting with double needles, you will always have a zigzag-like stitching on the back of your quilt. If you are bothered by this, you could minimize this look by using a busy print that matches the thread color.

## BUILT-IN TUTORIAL

Do not forget that there is a built-in tutorial on the Q Series machines for threading the double needle.

- Go to the Home Menu by selecting the Home button below the screen.
- Select Tutorials and Threading.
- In the Threading Menu, you will find Threading the Double Needle.
  - You may watch the video play while you are threading.



## Q-MATIC TIP

The same rules apply when stitching with double needles in Q-matic.

- Slow the machine down by using the slide located below the quilt area on the computer screen.



Click the icon for video:  
Tips for Double Needle Quilting

# MECHANICAL CHANNEL LOCKS

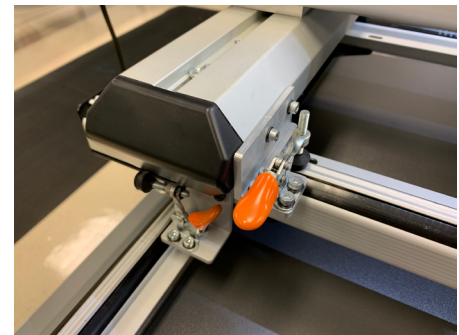
## APPLICATION (BASTING AND STRAIGHT-LINE QUILTING)

Mechanical channel locks make it easier to sew in perfectly straight lines. They are also useful for straightening the top of a quilt and simultaneously tacking it at the edges onto the batting and the quilt back.

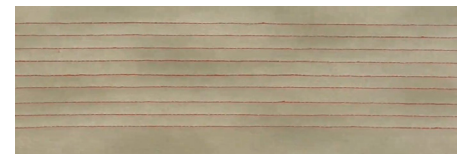
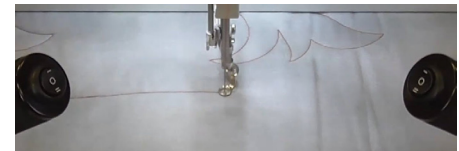
Channel locks are mounted directly onto the X and Y-axes of the quilting frame. They block the movement of the carriage and that of the machine in either a horizontal or vertical direction.



1. Lock the channel lock by pushing down on the orange lever to stop the machine from moving from front to back to create horizontal straight-line quilting.



2. Stitch your first line by gently guiding the machine straight across the frame.
3. Mark how far apart you want your stitching lines. Unlock the Channel Lock. Move the machine the determined distance and lock the Channel Lock in its new position. Start row 2.
4. Repeat for row 3.
5. Continue until you have all the rows you need stitched.



## TIPS FOR SUCCESS

The Mechanical Channel Lock that stops the movement of the machine from side to side is located on the carriage and can be locked to do the basting down the sides.

Both channel locks can be locked at the same time so that the machine does not move when cleaning and oiling.



Click the icon for video:  
Mechanical Channel Locks



# NEEDLE POINT LASER

The BERNINA Needle Point Laser shows the exact place below the needle. Use it to ensure stitching accuracy on start points, or when you want to mark something. Follow the included installation instructions. After installation, go to Setup and turn on the Needle Point Laser.



## FINE-TUNING THE POSITION

- Make sure you have aligned the laser before you start a project. To do this:
  - Cut the included foam in half so that it is about the same size as the stitch plate. Place a piece of tape across the foam so that the needle will make a hole in it.
  - Turn the handwheel or use the Securing Stitch function with an un-threaded needle to make a hole in the tape.
  - Use the two thumb screws to adjust the the laser from front to back and side to side until the red light of the laser is right on the hole in the tape. Tighten the screws.
- Re-check the alignment as needed. Quilting may cause the thumb screws to loosen and cause the laser to shift.

## NEEDLE POINT LASER SETTINGS

There are 3 settings for the Needle Point Laser, and they display with the icon.

- “0” is OFF, for times when the laser is not needed.
- “I” is ON, the laser is always on. This is good for seeing where the needle will touch the project or when placing designs with Boundary or Markers in Q-matic.
- “A” is AUTOMATIC, the laser turns itself off during stitching, but turns itself on when the machine stops. This is good when placing a design every time you stop.

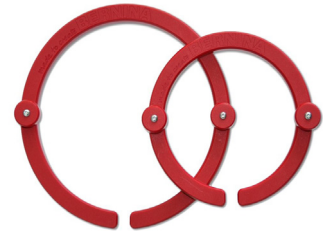
## NEEDLE POINT LASER TIP

For high-loft batting – you may need to hold the quilt sandwich down with your fingers to get a more accurate placement of the needle.



# GRIPPER RINGS

This accessory keeps the desired area completely flat and taut while quilting with a table model longarm or a domestic sewing machine. With the assistance of the ring, you can focus on the quilting, rather than how firmly to hold your fabric.



## SUPPLIES

- Quilt Sandwich at least 20" x 20" spray basted together
- BERNINA Gripper Rings (one 8" and one 11" red ring)
- Darning Foot #9
- Thread for Top & Bobbin
- Size 90 Topstitch Needle
- BSR Mode as desired
- Needle Stop Down

## USING THE GRIPPER RING

1. Position the gripper ring around the presser foot and on the area to be quilted. The opening in the ring allows you to slide the hoop around the presser foot without having to cut the thread.
2. Position your hands over the knobs.
3. With a light touch, begin to move the fabric as you quilt.
4. Once the area inside of the ring is full, stop and reposition the ring.
5. Begin quilting again in your open work area.
6. Continue using the Gripper Ring to quilt areas of your quilt. Practice different quilting designs.



## TIPS FOR USING THE GRIPPER RING

- Smooth the quilt before the final placement of the ring making sure there are no tucks and the quilt is flat.
- The 8" ring may be used for small areas or when working on a smaller domestic machine.
- The 11" ring may be used for the most quilting area. This is helpful when stitching larger designs such as a large all-over design.



Click the icon for video:  
Couching Inserts and Foot #72  
Gripper Rings