BABY LOCK
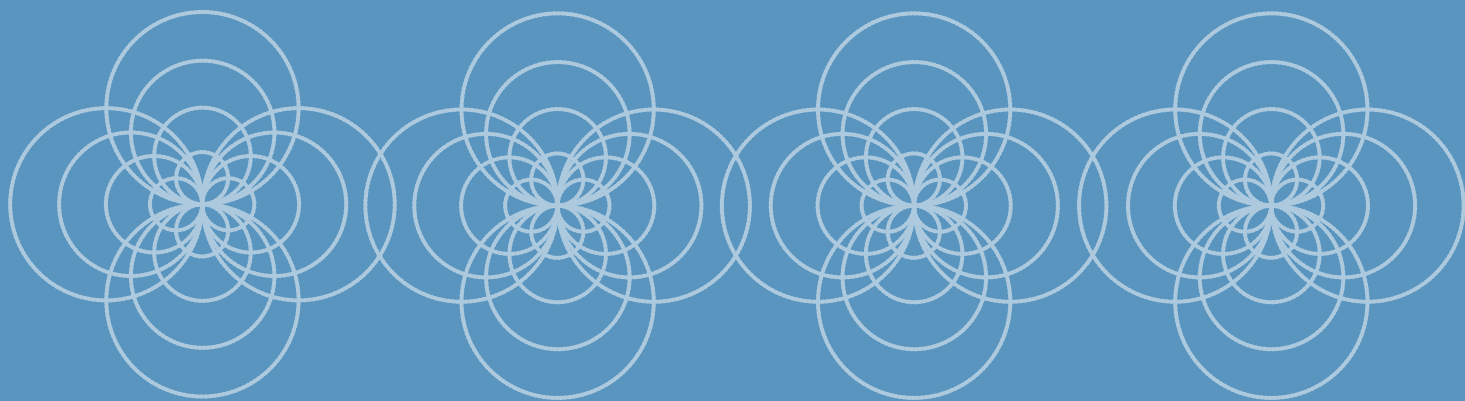## Ruler Set Instructions
### For Low, High Shank and Longarm Quilting Machines

baby lock

BABY LOCK
Ruler Set Instructions

Expand your quilting capabilities with the Baby Lock Ruler Set. From stitching squiggles across seam lines to curved line doubled-sided feathers to perfect concentric circles, these templates are perfect for any sewer looking to add new designs and styles to their quilts.

- Nautilus Feather Tool
- Squiggle Template
- Feather Tool
- Mini Straight Line Tool
- Nested Mini Circles Template
- Small Diamond Template

3/16" Templates
- Designed for low shank machines.
- For use with the Baby Lock Open Toe Ruler Foot Low shank. (BL-LOTRF)
- Recommended for use with an extension table or on a standard machine that has been lowered into the cabinet.
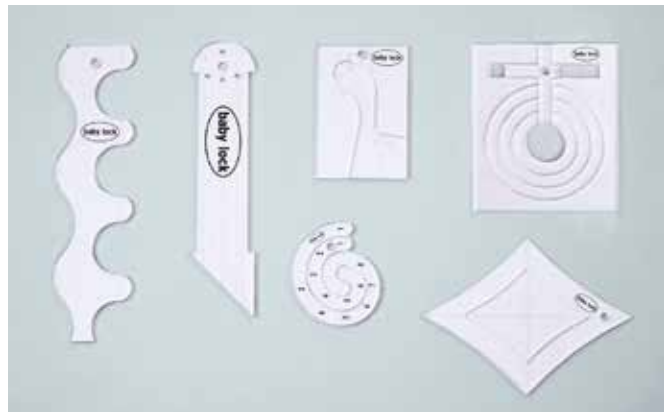
Low Shank Ruler Set BLRK-LS

1/4" Templates
- Designed for high shank and longarm machines.
- For Use with the Baby Lock Open Toe Ruler Foot High Shank. (BL-HOTRF)
- Recommended for use with a ruler base on longarm machines, sit down longarm machines, or standard machines lowered into the cabinet.

High Shank Ruler Set BLRK-HSLA

baby lock

FOR THE LOVE OF SEWING

NAUTILUS FEATHER RULER

Design by Sheri Wood of White Robin Designs

The Nautilus Feather is easy and versatile to work with, but as with any new tool or technique, practice is encouraged before you start quilting.

If you are quilting on a quilting machine, the appropriate template foot for your machine is required and using an extended base is recommended.

If you have trouble with the ruler slipping while you are quilting, try adding the Grip Stop Dots or Temporary Adhesive Spray.

Directions for the border design can be used with any size of the Nautilus Feather.

The Nautilus Feather is etched with registration lines that divide it into 8 sections. They are numbered starting from the open or tail end. These are used to help you keep the baseline even.
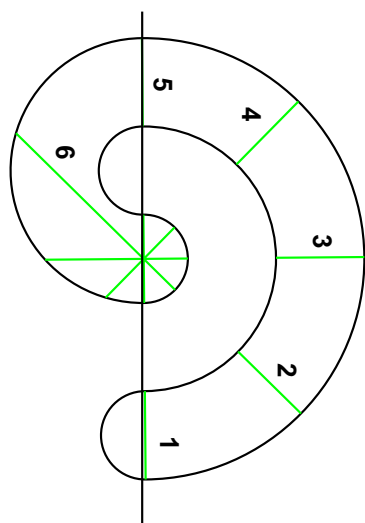
Borders

Mark a line in the lengthwise center of the border with an appropriate marking tool such as a chalk pen - the kind that you can refill and has a wheel on the bottom, or a blue water soluble marker. ALWAYS test your choice of marking methods. Also mark the center of each border and the diagonal of each corner.
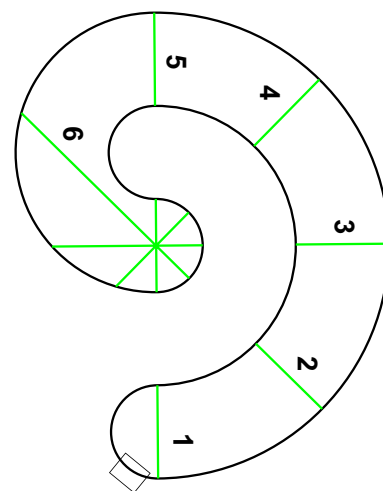
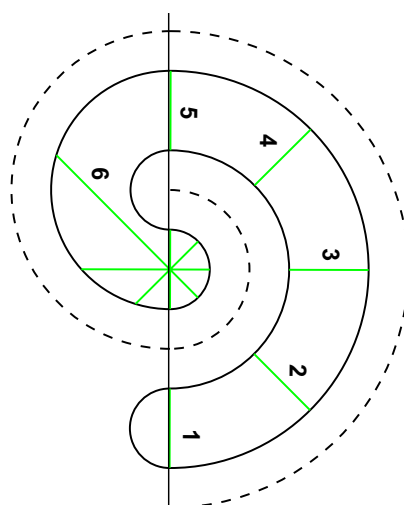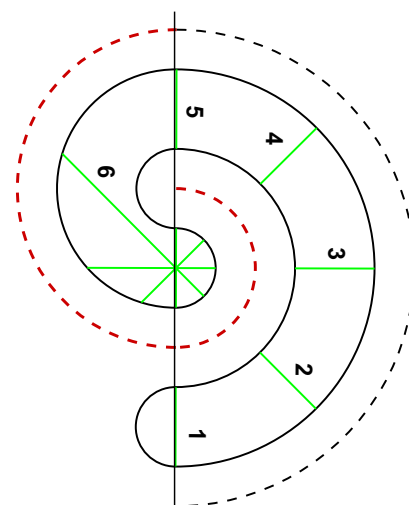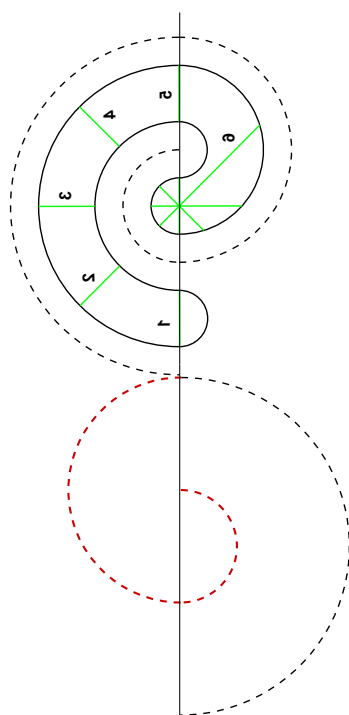Etched registration lines
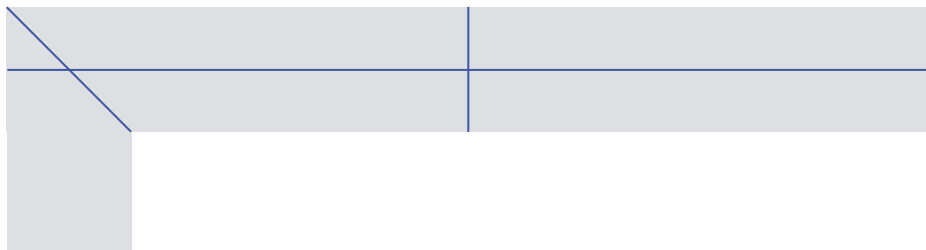
1. Place the Nautilus Feather on the lengthwise center marking of the border, with the #1 and #5 registration lines of the ruler on the center line.


2. Bring up your bobbin thread and anchor your stitching line. Begin stitching around the outside edge of the Feather Ruler, adjusting your hand position as necessary, until you stitch to the center.


3. Backtrack your stitching line until you reach the top of the ruler (#5 registration line of template) and the centerline of the border. (Backtracking shown in red.)

4. Move the Nautilus Feather Ruler so #1 registration line is at the needle, flipping the Nautilus Feather Ruler so it is facing the opposite direction as before. Begin stitching around the ruler until you reach the center.
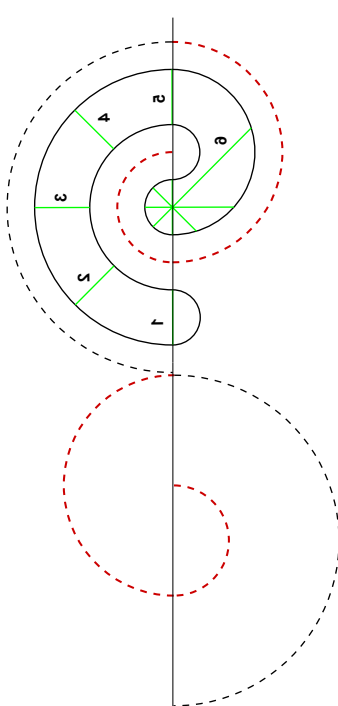
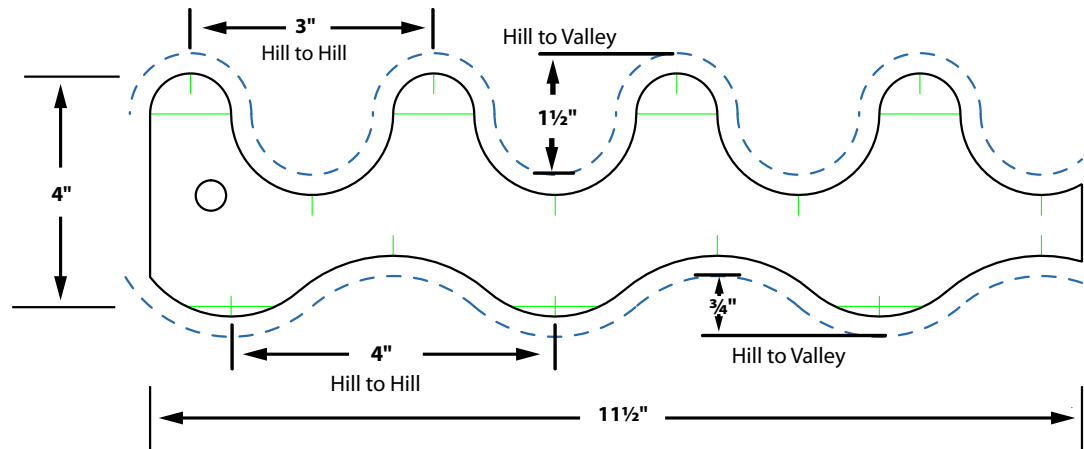5. Backtrack your stitching out to top center (#5 registration line). (Backtracking shown in red.)
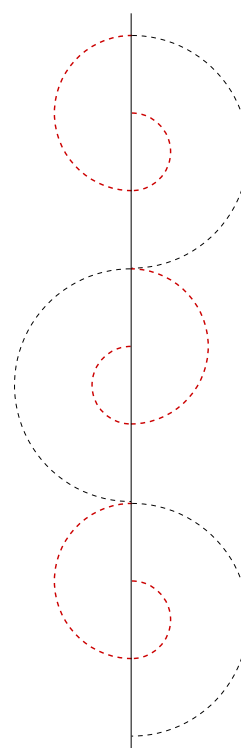
6. Continue alternating the direction of Feather Ruler, stitching until you finish your border or need to move the quilt.

7. Embellish as desired.

Squiggle II

The Squiggle Templates are designed for use on a machine. If you are using the template on a machine that moves, be sure the ruler base is attached to your machine. If you are on a machine that is stationary, you may find it helpful to put Grip Stop Dots or spray adhesive on the templates. The hills and valleys on these templates are designed with the Ruler foot in mind. This means from outside edge to outside edge, the foot measures 1/2". There are etched vertical and horizontal lines to help align the templates when creating your designs. Before using the template, peel any film/paper masking from the templates so you can see through the clear plastic.

etched line
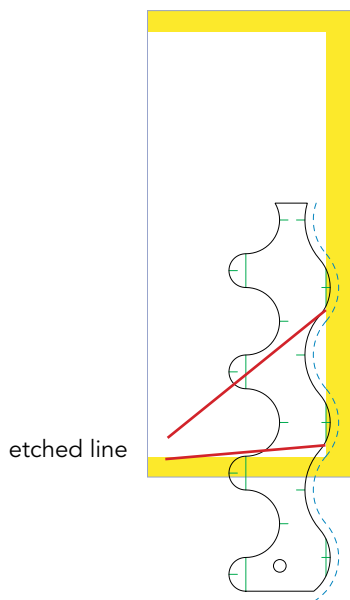
The Squiggle Templates are specifically designed to cross a seam line with a simple, even wave. They were specifically designed to be easily managed template which will quickly create a wide variety of designs. Let's start with the basics. Place the Squiggle Template on a seam aligning the etched lines on the seam.
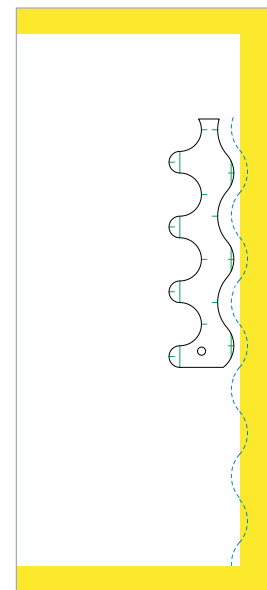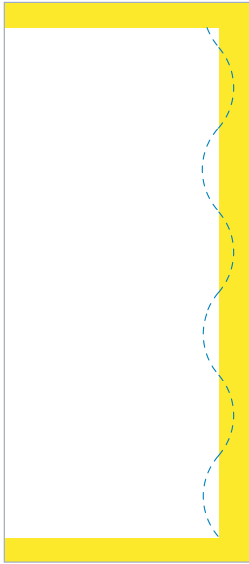
Stitch the wave, stopping when you get to the seam. Needle down. Slide the Squiggle Template up keeping the etched lines aligned with the seam. Continue the wave.
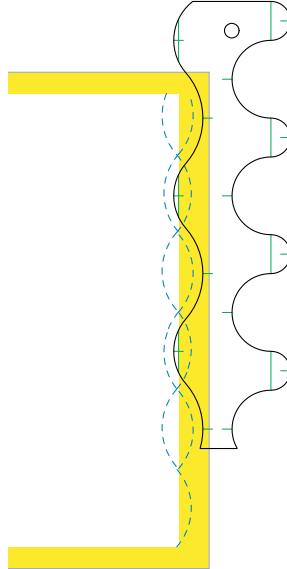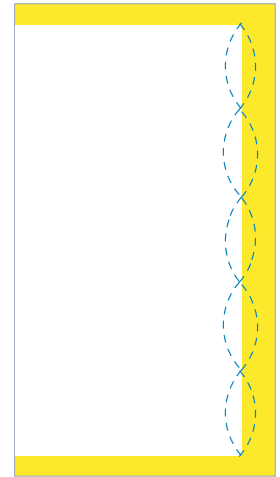
The Ribbon Effect

By using the "flip" movement with the Squiggle Template, you can create some interesting ribbon effects.

Align the etched lines with a seam. Stitch the wave the length you desire.

Flip the Squiggle Template. Align the etched lines with the seams and make sure the hills are opposite the valleys and vice versa.
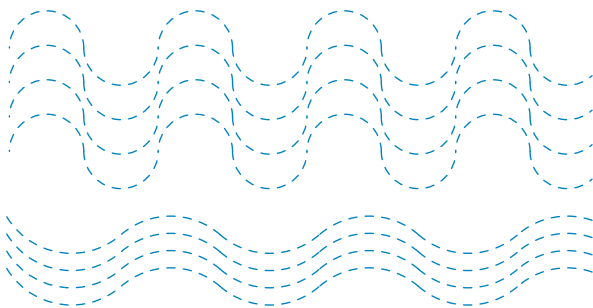
Stitch the new wave.

Cascasing Waves

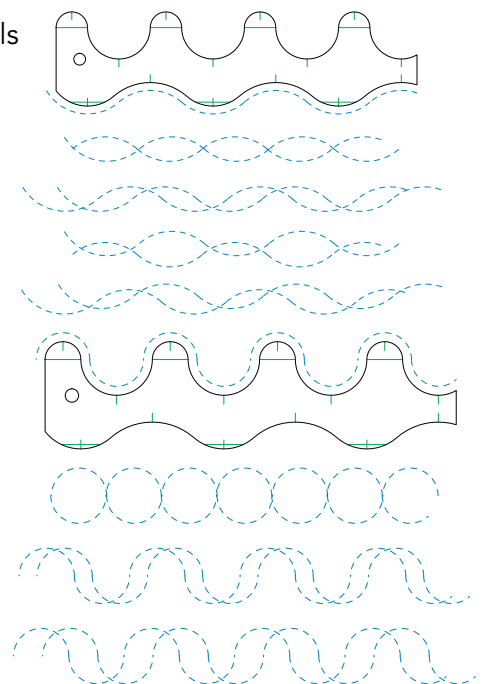The Squiggle Templates are excellent for creating a series of waves.

 Squiggle II

Ribbons

You can create a variety of different ribbons by changing how valleys and hills line up.

Squiggle II

Crosshatching

Create a unique crosshatching effect using the Squiggle Templates.
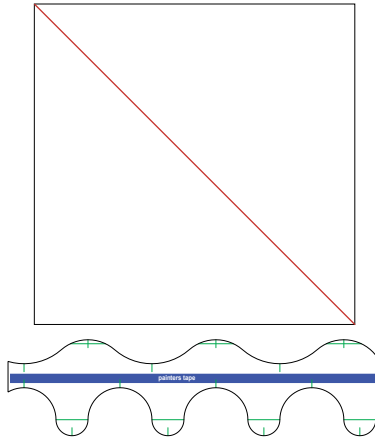
First, to ensure a consistent line, you may find it helpful to mark the square from corner to corner and to use blue painter's tape on the template to mark the distance apart you wish the crosshatching to be.
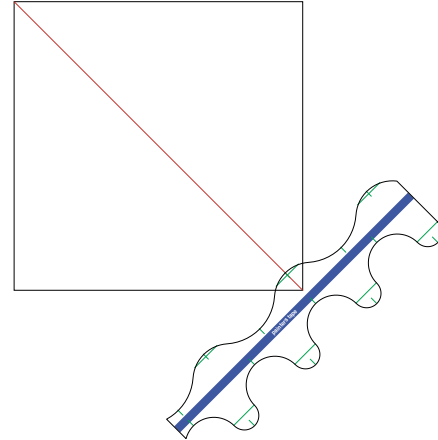

Place the Squiggle Template so you can align the etch line of the middle hill with the drawn line of the square. Stitch from seam to seam.

Stitch along the seam line until you can position the Squiggle Template with the blue tape on the previous stitched line. Stitch from seam to seam.

* Be sure to note where on the waves you line up the tape. If you use a valley and then a hill, your spacing will be uneven.
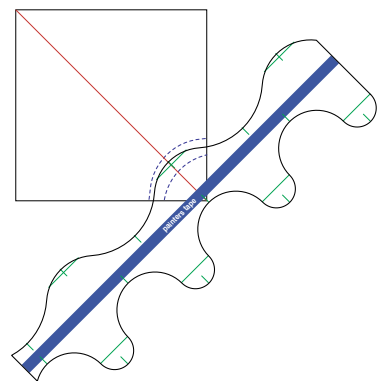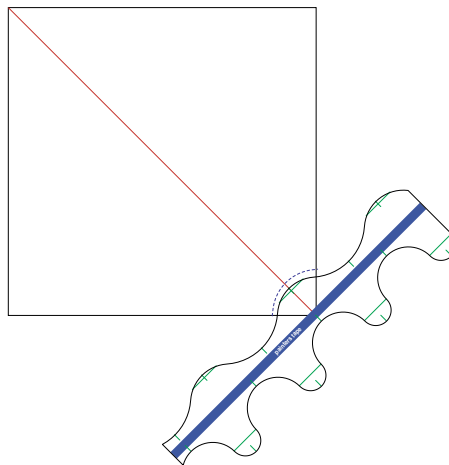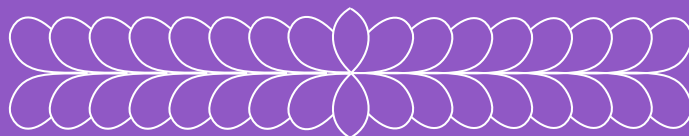

Note: You can only cross an 8" square if you wish the whole square to be crosshatched. To finish the crosshatching, switch to the other diagonal and repeat.
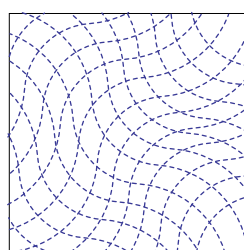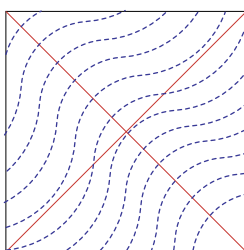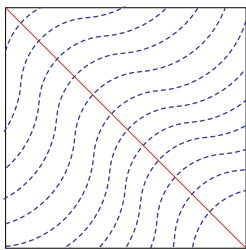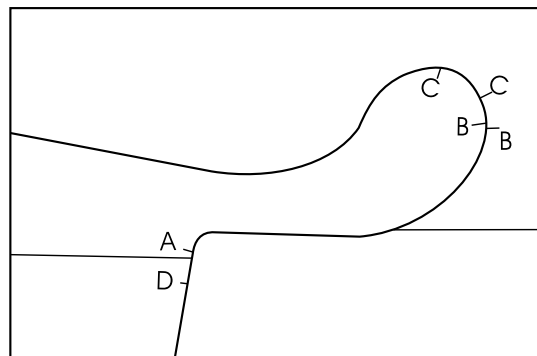

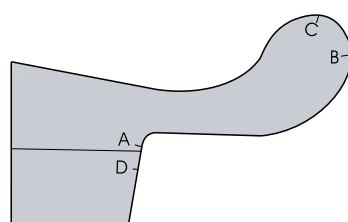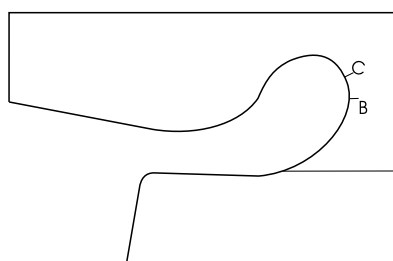Continue until square is completed.

Design by Nancy Johnston

What the Feather Ruler can do:
- Straight line single sided feather
- Straight line double sided feather
- Curved line single sided feather
- Curved line double sided feather
- Feathered wreath - inside and outside both sides or one side only
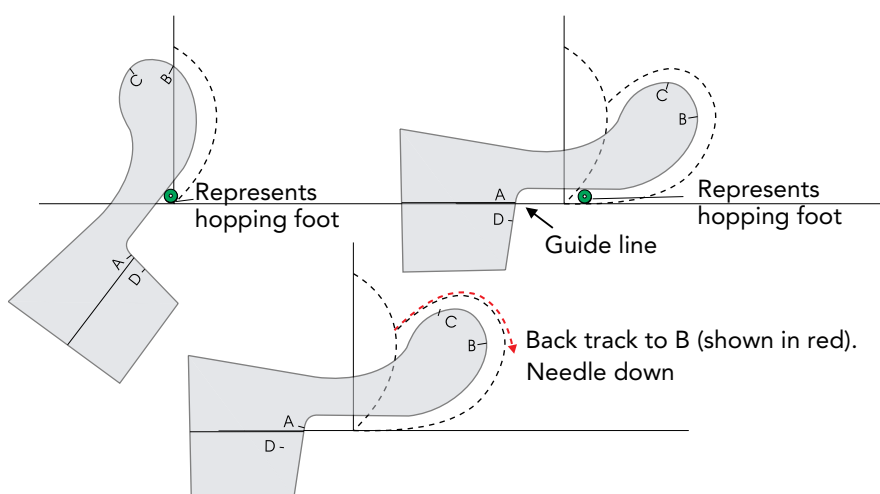

Two Tools - Two Feather Sizes

Mark in a base line (straight line) or use the seam line. Mark your center line.

Position the template with B at the top intersecting with your center line and pivot the template so that your stitching line will intersect with your base line/seam line and center line. Stitch from B to base line. Needle down.

Pivoting ruler aligning etched line to base line and the top of the tool intersects with your previous stitching line. Stitch from baseline until you intersect with the previous stitching line.


Represents hopping foot

Guide line

Represents hopping foot

Back track to B (shown in red). Needle down

Reposition the template, aligning your base line with the template against the foot at your stop point. Stitch down to point A. Backtrack up to B (shown in red). Repeat this step until you have filled your border area. Return to the center, flip the template horizontally and repeat the steps for the left hand side.
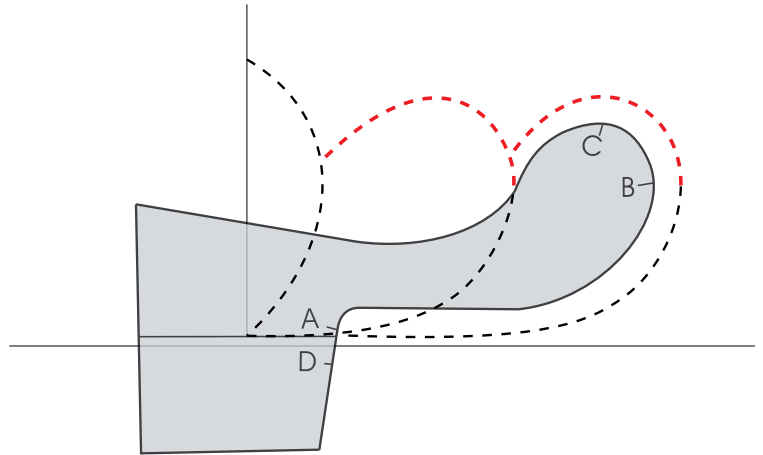
For a larger border/double sided feather flip the ruler vertically, repeating all of the steps on the other side of your base line.
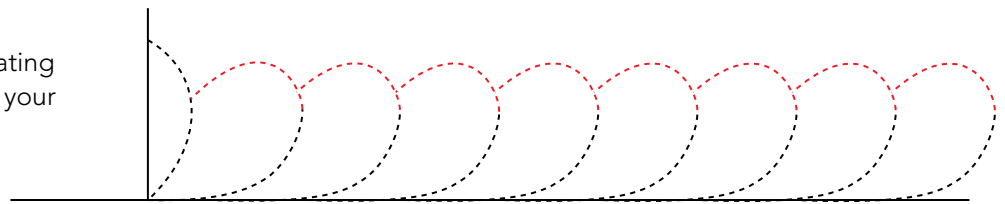
Red stitching lines indicate Backtracking.

MINI STRAIGHT LINE RULER

Excellent ruler for use directly on long arm machines. This 1/4" thick acrylic ruler can be used to "Stitch in the Ditch". Each edge is "indented" by a 1/4" to aid in proper placement on quilts. One end is round and can be used to create arcs and scallops. The opposite end contains a 45 degree angle. Using this end you can make lines to do crosshatching on point.
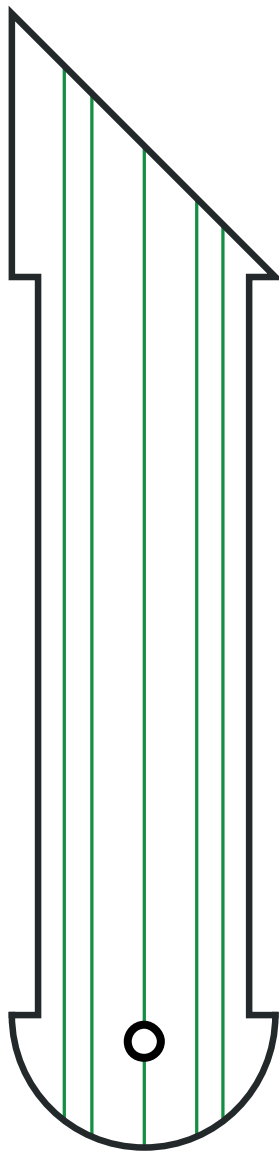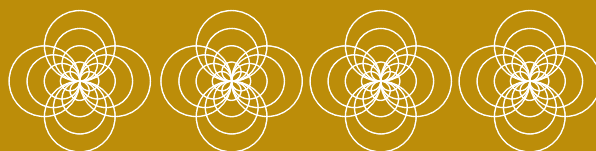
The Nested Mini Circles are designed for use on a machine (either sit-down, or mounted on a frame). If you are using the rulers on a machine that moves, be sure the base is attached to your machine. If you are on a machine that is stationary, you may find it helpful to put Grip Stop Dots or spray adhesive on the templates. The dimensions of these rulers are designed with the Ruler foot in mind. This means from outside edge to outside edge of the foot measures 1/2". If your foot is a different size, your stitched line will be slightly different than the stated measurement. The rulers have been segmented into eight sections for ease in aligning the tool to create designs. Before using the template, peel any film/paper masking from the it so you can see through the clear plastic.

Concentric Circles

Remove key from template in order to position foot on the inside of the Nested Mini Circles.
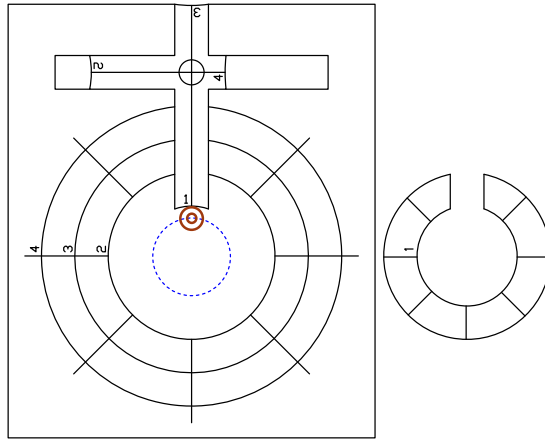Replace key being sure to match key to circle desired.
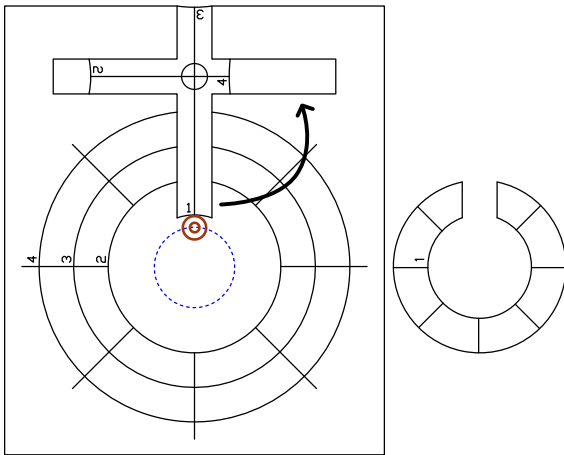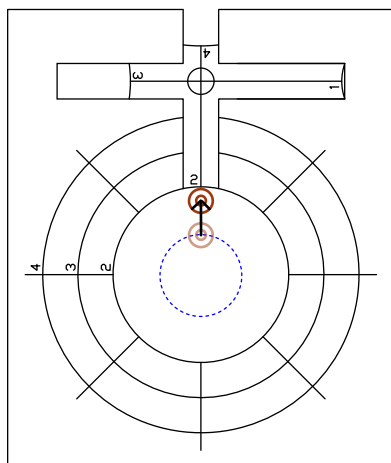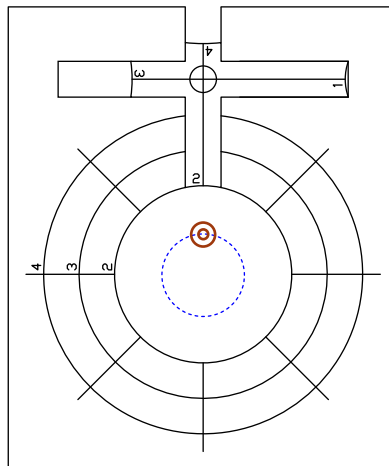
Hopping
Foot
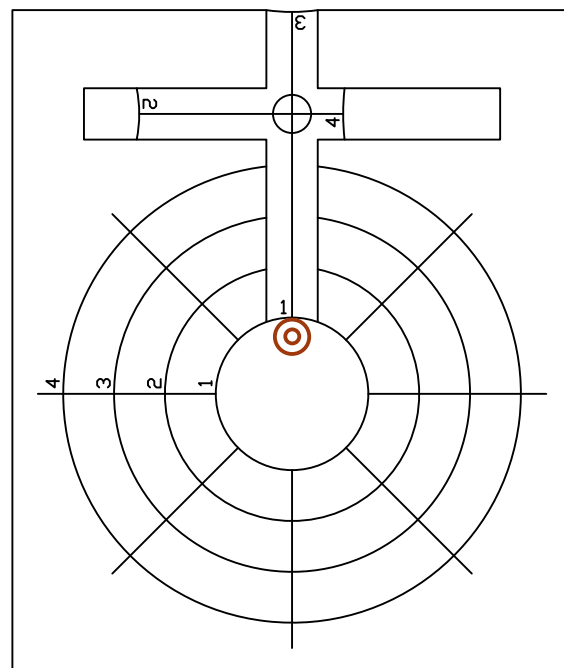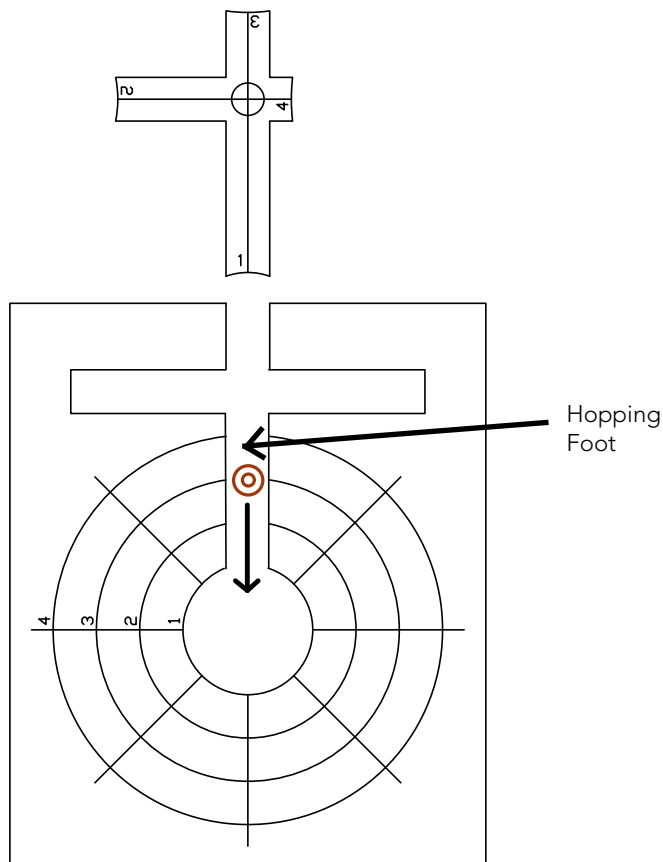
Concentric Circles
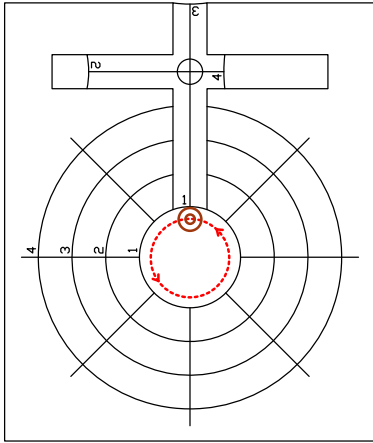
Stitch a complete circle. Tie off thread.

Remove first ring.

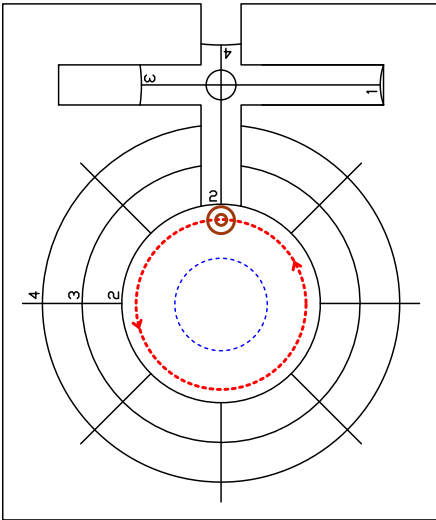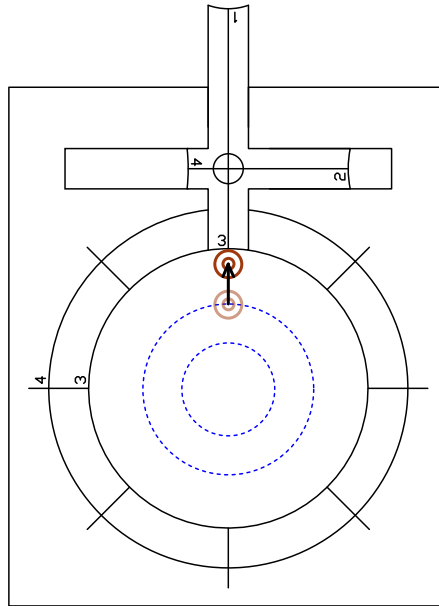Turn key to match new circle size.

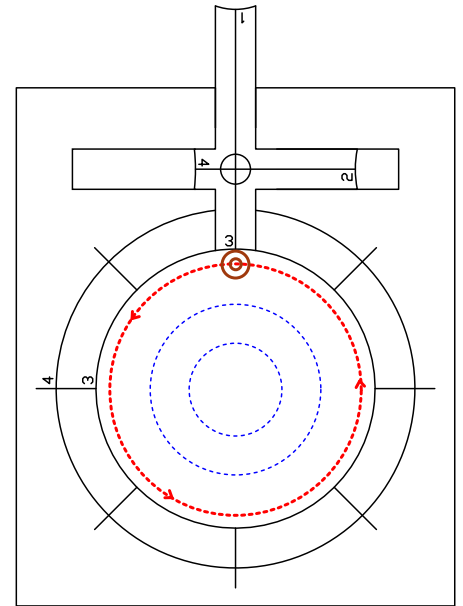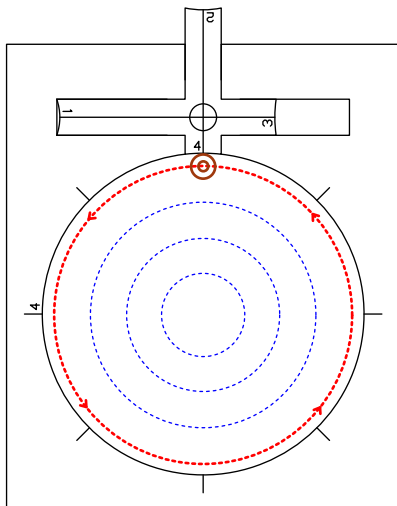Move foot to edge of new circle.

Concentric Circles
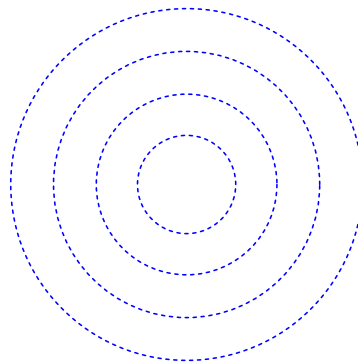
Stitch a complete circle. Tie off thread.

Remove second ring. Turn key to match new circle size. Move foot to edge of new circle.
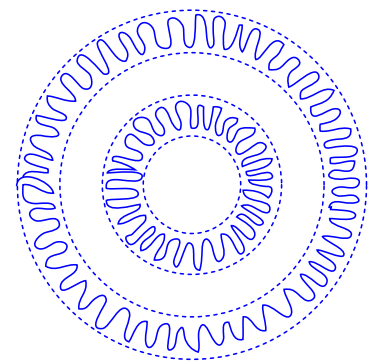
Stitch a complete circle.

Remove third ring. Turn key to match new circle size. Move foot to edge of new circle. Stitch complete circle.
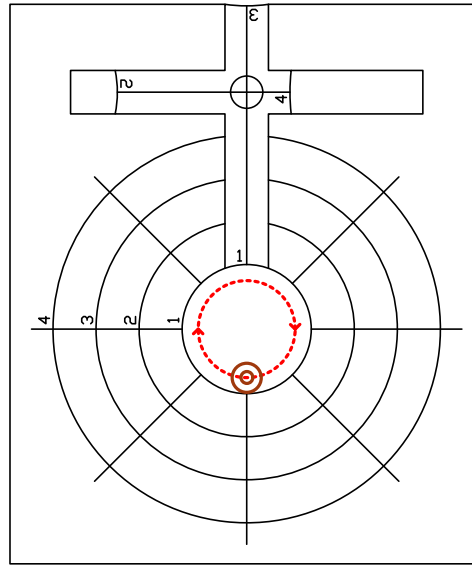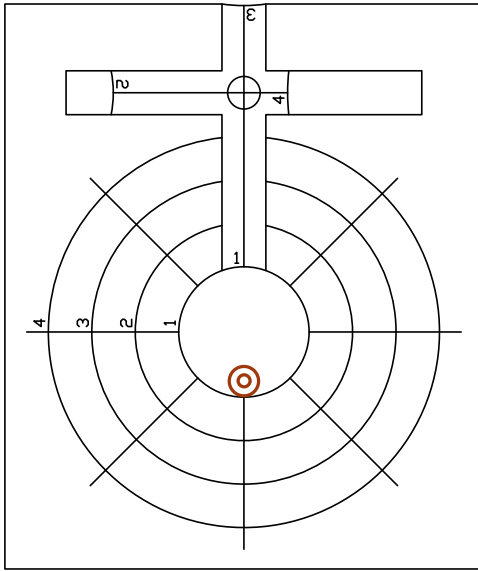
Completed design of four concentric circles 1/2" apart.

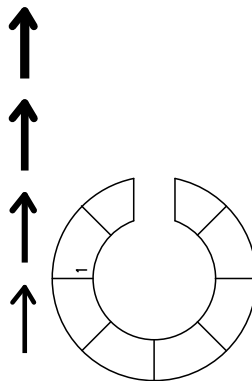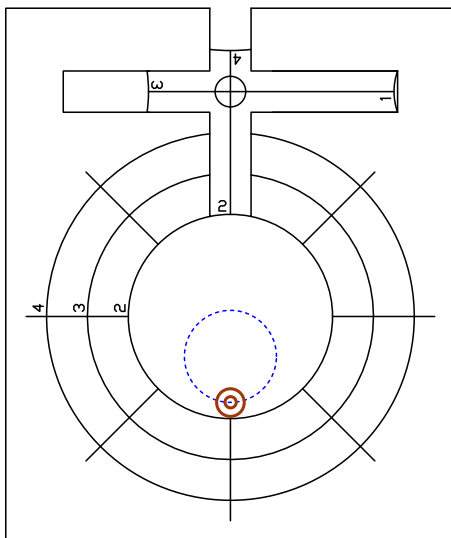You can fill any of your circles for a faux trapunto effect.
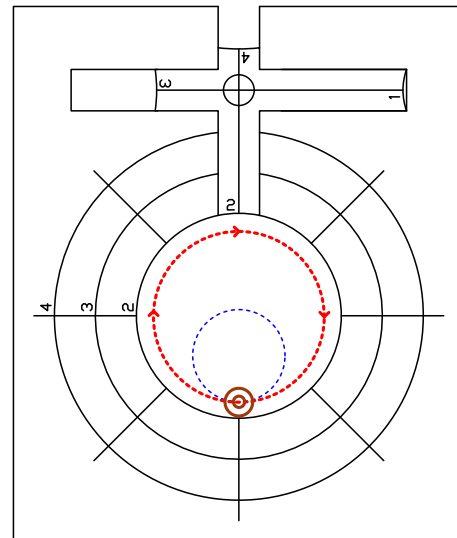
Connected (Psychedelic) Circles

Remove key from template in order to position foot on the inside of the Nested Mini Circles. Replace key being sure to match key to circle desired. Position foot at the bottom of the circle.
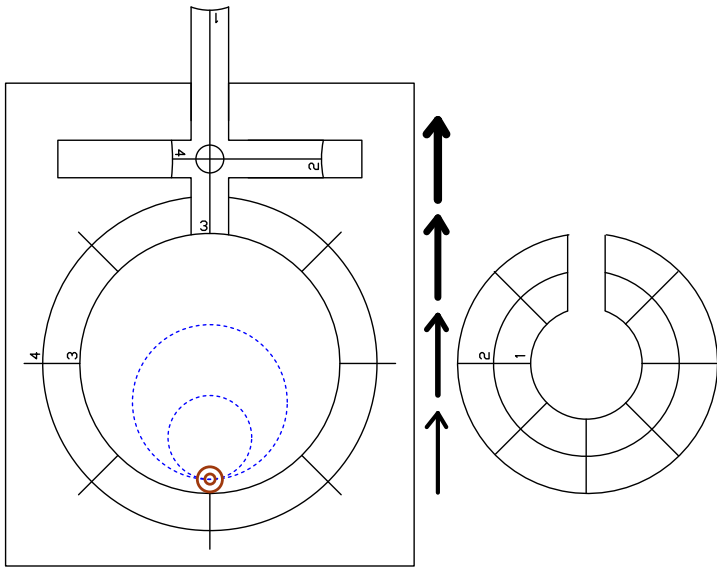

Stitch a complete circle. Needle down.

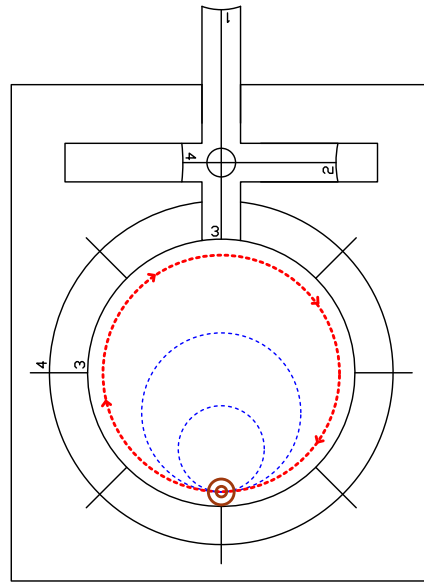Remove first ring. Turn key to match new circle size. Slide template to foot position.

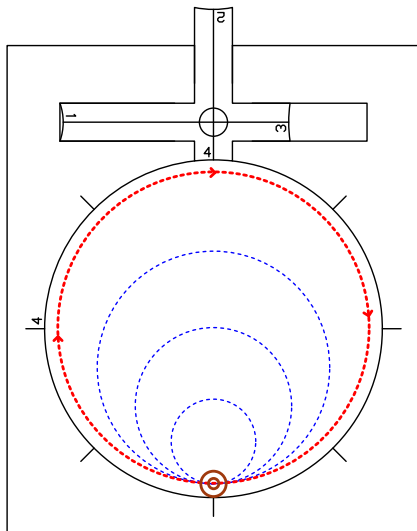Stitch a complete circle. Needle down.

Connected (Psychedelic) Circles

Remove second ring. Turn key to match new circle size. Slide template to foot position.
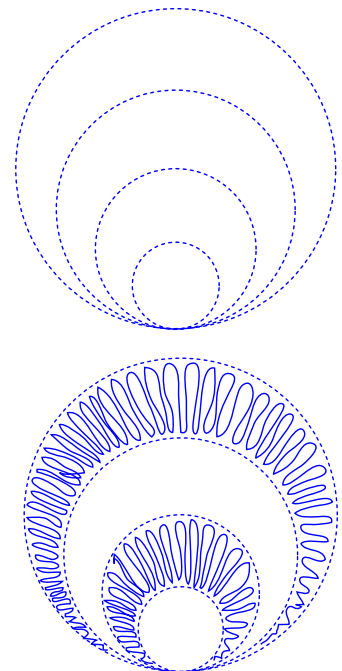
Stitch a complete circle.

Remove third ring. Turn key to match new circle size. Slide template to foot position. Stitch complete circle.

Completed Psychedelic Circles.

You can fill any of the areas for a faux trapunto effect.

Spyrographing Circles

You will be using the etched lines on the template to keep your design even and consistent. You will need to have lines or seams (shown in purple dashes) on the block where the design is to be stitched. If there are no seams, (for instance: A blank block as opposed to a four patch), use a stencil to pounce in a grid, or use a ruler to draw in a set of cross hairs on the block. Line template up with one edge of the circle on the center point of the block and the etched line running straight up the key on the vertical line of the crosshairs. The etched line opposite the key should be on the same vertical line.

Tip: The first time you do this, it is easiest with the largest size. If you use one of the smaller sizes, you might find it helpful to use blue painter's tape to help hold the pieces when moving the template.
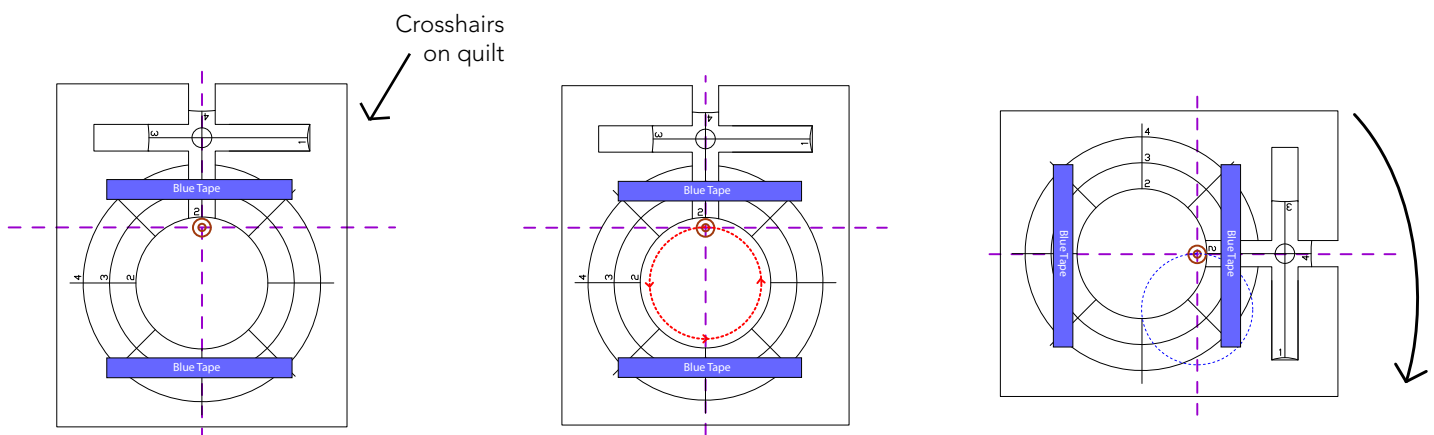
Crosshairs on quilt

Pick a circle size. Remove key from template in order to position foot on the inside of the Nested Mini Circles. Replace key being sure to match key to circle desired.

Starting at the center of the block, stitch a complete circle. Needle down.

Rotate the template to the horizontal crosshair as shown above.
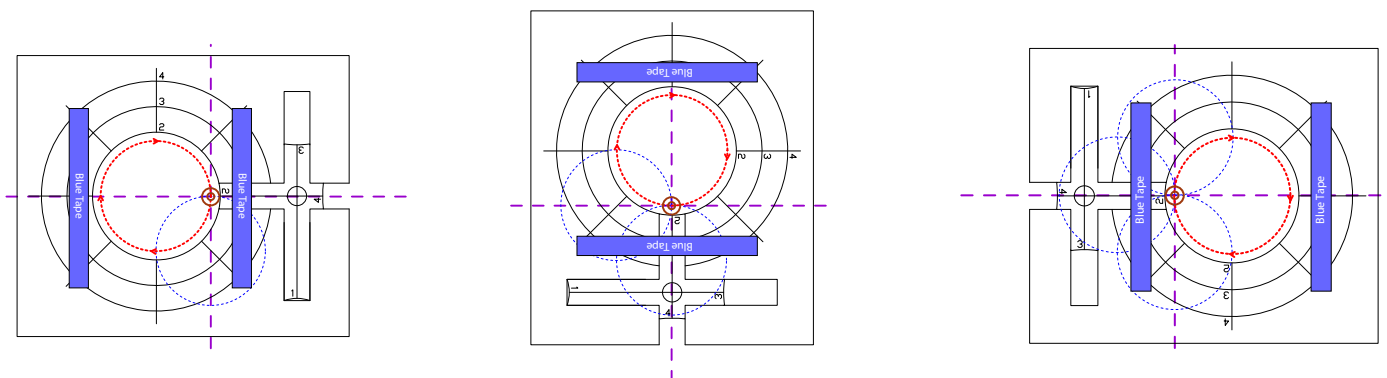
Starting at the center, stitch a complete circle. Needle down.

Rotate the template to the vertical crosshairs as shown above and stitch a complete circle. Needle down.
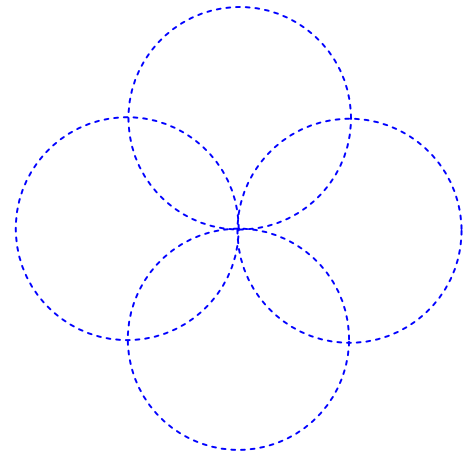
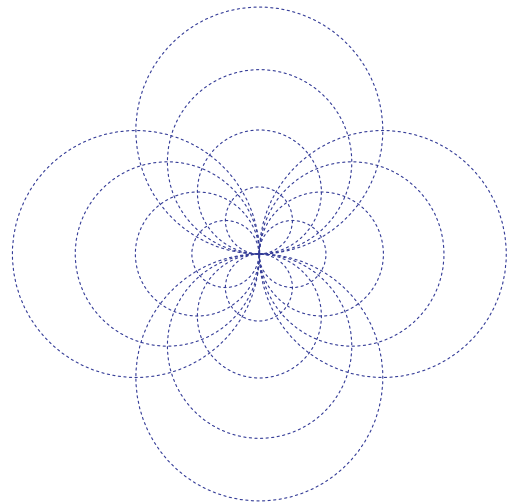Rotate the template to the horizontal crosshairs as shown above and stitch a complete circle.

Variations: Combine Psychedelic Circles and Spyrographing Circles for a really fun look. Start by spyrographing the smallest circle and then work your way up to the largest.
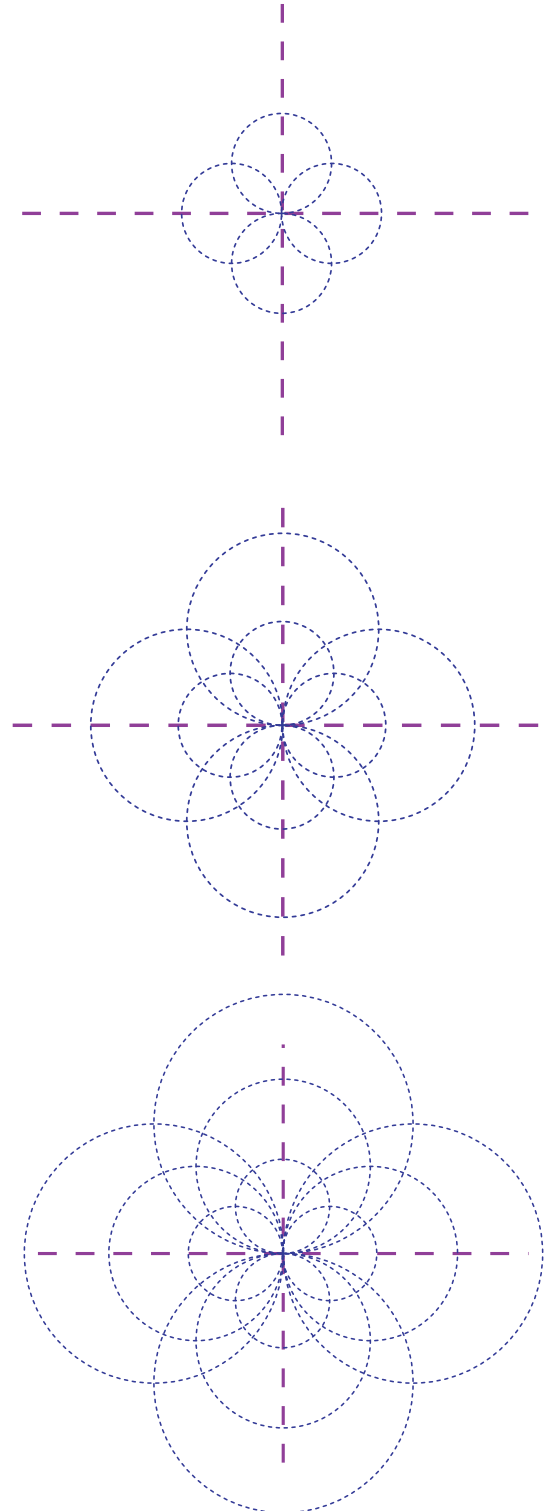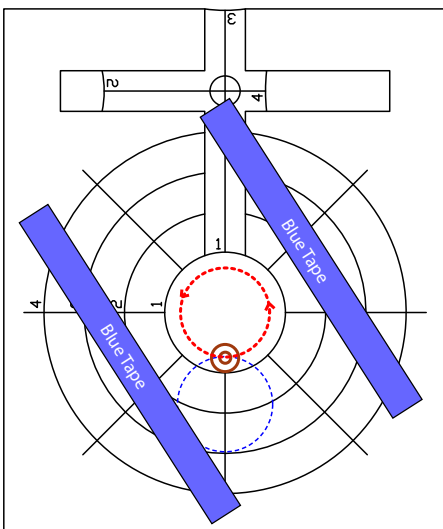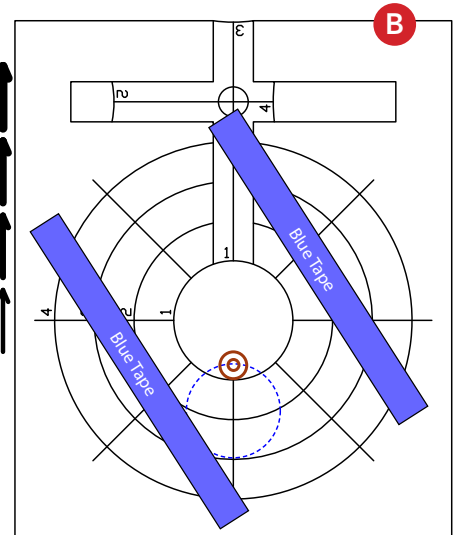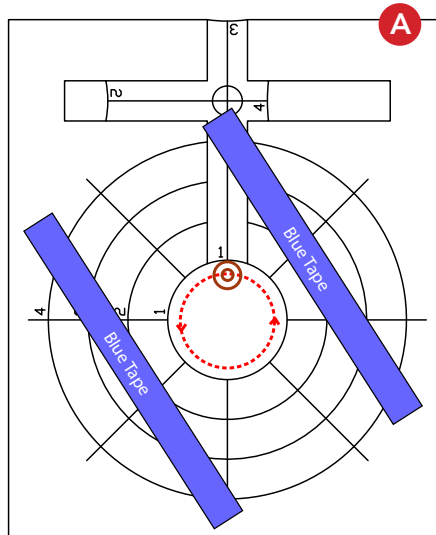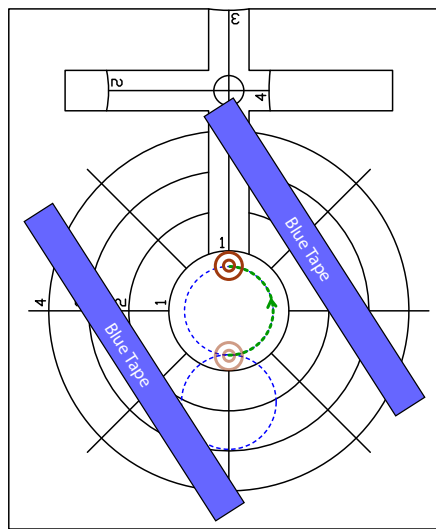
Completed Spyrographing Circles

Finished Variation
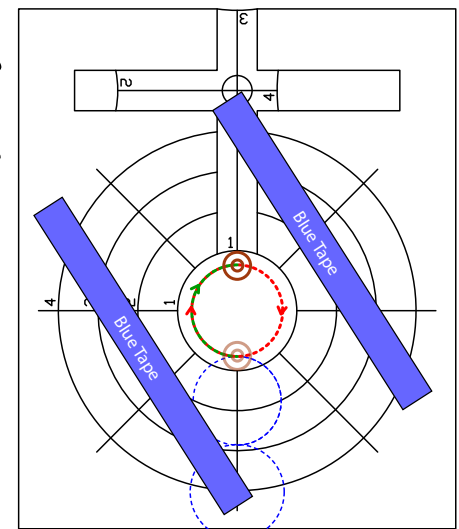
String of Pearls

Pick a circle size. Remove key from template in order to position foot on the inside of the Nested Mini Circles. Replace key being sure to match key to circle desired. If you use one of the smaller sizes, you might find it useful to use blue painter's tape to help hold the pieces when moving the template. Stitch a complete circle. Needle down. See drawing A. Slide template to foot position as shown on drawing B.
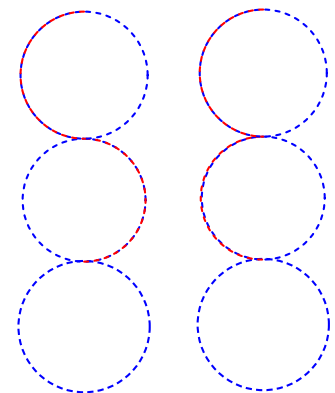
Stitch a complete circle.

Stitch a half circle over already stitched area so that the foot is positioned to continue along path. Needle down.

Stitch 1-1/2 circles. Needle down. Continue until design is desired length.

Variation: You can choose to have all the "double" stitched areas (shown in red) on the same side or opposite sides.
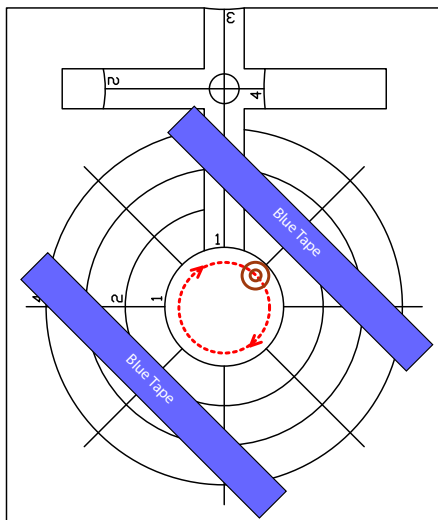
Interlocking Circles

Pick a circle size. Remove key from template in order to position foot on the inside of the Nested Mini Circles. Replace key being sure to match key to circle desired. If you use one of the smaller sizes, you might find it useful to use blue painter's tape to help hold the pieces when moving the template. We will be using the diagonal lines etched into the template, so be sure you can see these lines for reference. If you are not stitching the interlocking circles along a seam, you may find it helpful to have a line marked which you can line up the center of the circles upon. Start with your foot on one of the etched diagonal lines. In the illustration to the left we are using the upper right diagonal.
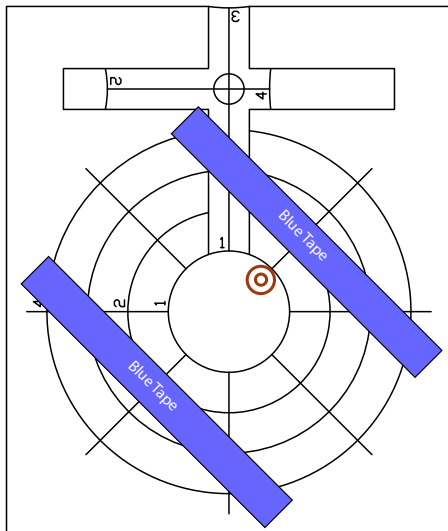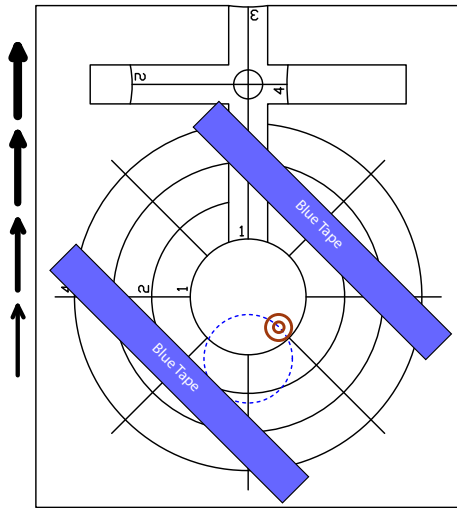

Tip: If you are positioning the foot on the right side of the template and going up, you will want to do counter clockwise circles. If you are positioning the foot on the left side of the template and going up, you will want to do clockwise circles. Going down it is the opposite.
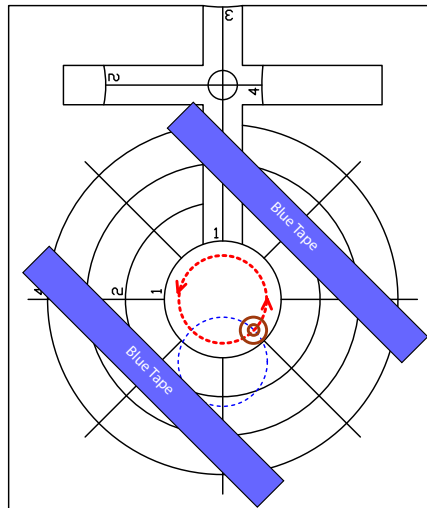

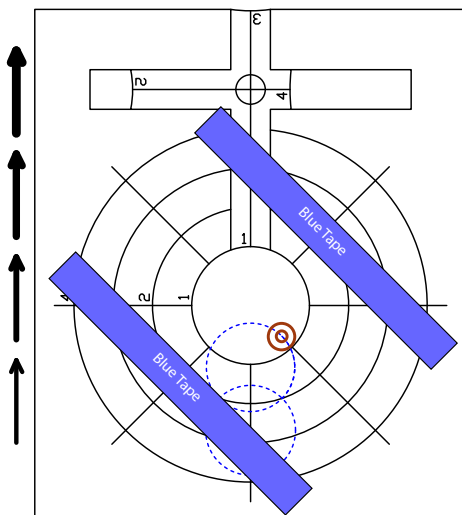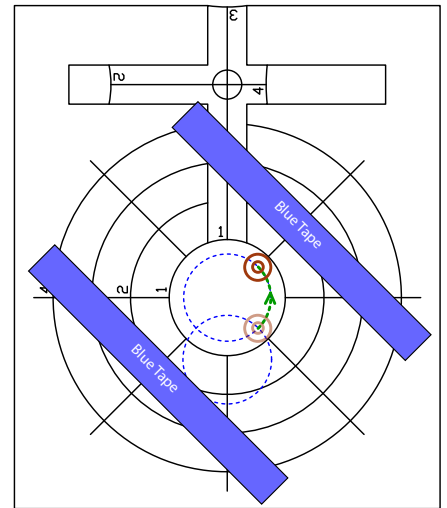Stitch a complete circle. Needle down.
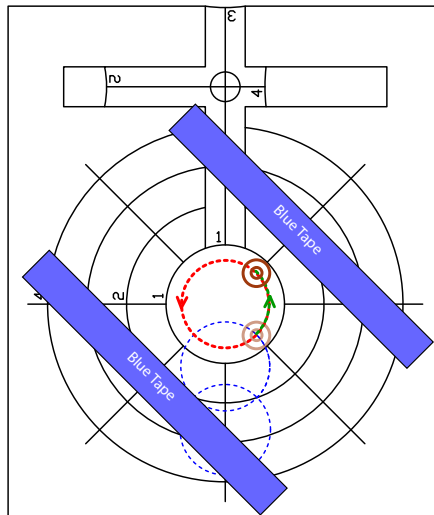
Interlocking Circles

Slide template up until the bottom right diagonal is against the foot.

Stitch a complete counter-clockwise circle. Continue stitching until you have reached the upper right diagonal. Needle down. You'll stitch 1-1/4 circles stitching over a 1/4 of the circle twice.

Slide template up until the bottom right diagonal is against the foot.

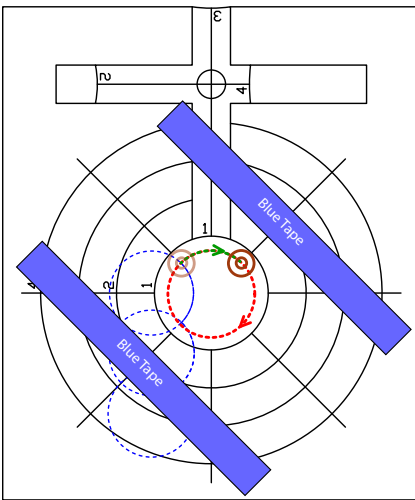Stitch 1-1/4 counter-clockwise circle. Needle down. Continue circles until desired length.
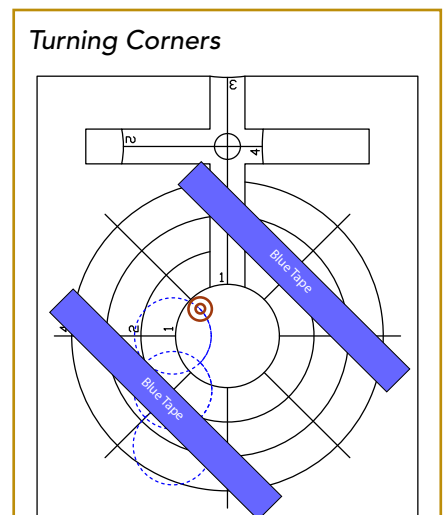
Turning Corners

To turn a corner: upon completion of a circle your foot should be at one of the upper diagonals. In our case, the upper right diagonal. Slide your template until the upper left diagonal is at the foot position.
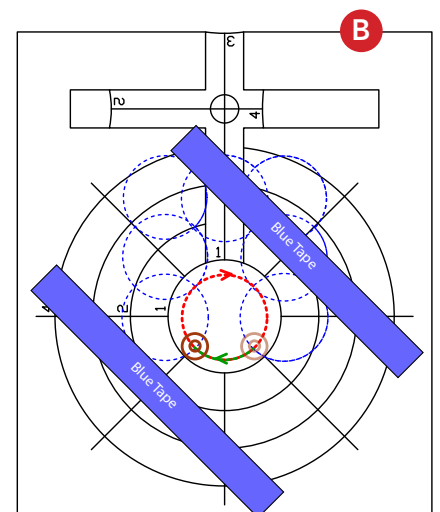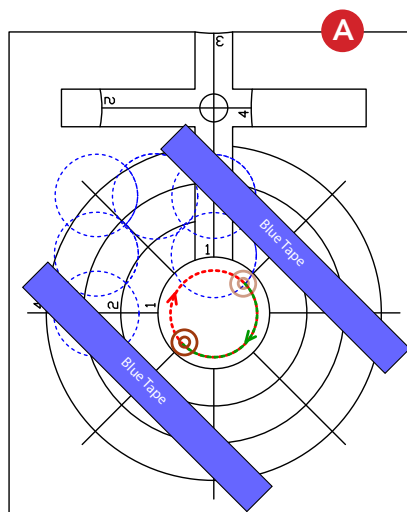
Interlocking Circles

Stitch a 1-1/4 clockwise circle, stopping at the upper right diagonal. Needle down. Slide template to the right until upper left diagonal is at the foot position. Continue circles until desired length.
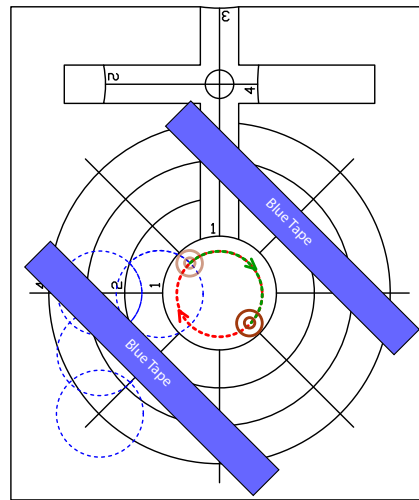
To turn corner again (going down) Stitch 1-1/2 clockwise circles stopping at lower right diagonal. Needle down.

Tip: When moving horizontally, if you are moving to the left, stitch counter-clockwise circles; if moving to the right, stitch clockwise circles.
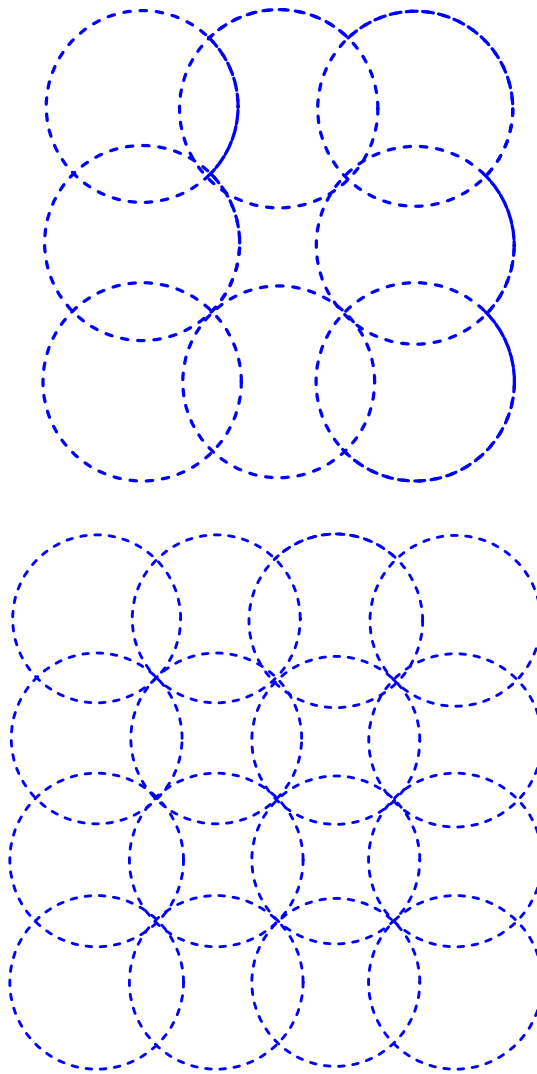

To turn corner again (going left), stitch 1-1/2 clockwise circles, stopping in lower left diagonal. Needle down. See drawing A. As shown on B, slide template to the left until lower right diagonal is at the foot position. Stitch a 1-1/4 clockwise circle. Needle down. Continue circles until desired length.
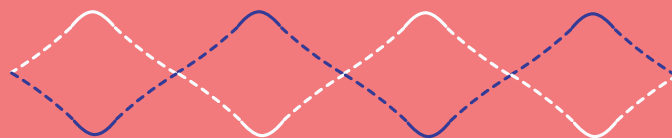
Interlocking Circles

Completed Interlocking Circles

This template will work well for Orange Peel as well.

You will be using the etched lines on the template to keep your design even and consistent. You will need to have lines or seams (shown in black dashes) on the block where the design is to be stitched. If there are no seams, (for instance: a blank block as opposed to a four patch), use a stencil to pounce in a grid, or use a ruler to draw in a set of cross hairs on the block. Line template up with one edge of the Diamond on the center point of the block and the etched line running straight up the template on the vertical line of the crosshairs. The etched line opposite the template should be on the same vertical line.
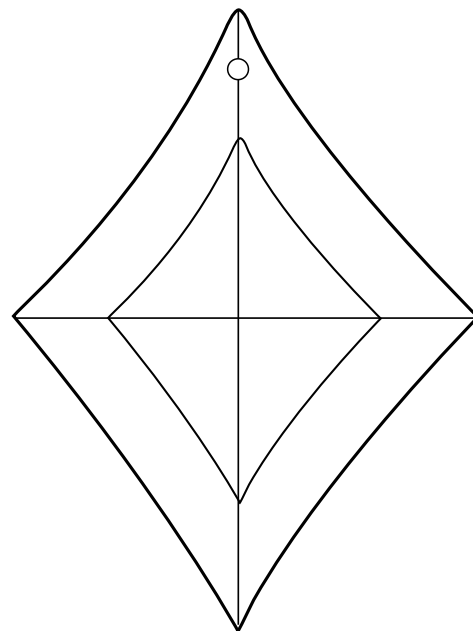
Tip: Use painter's tape to hold the nested pieces together. The painter's tape serves two purposes: holds the template together and can be used as a guide for aligning the template.

Create a simple block design using the Diamond Template and the 4-point Grid. The technique is "Rotate".
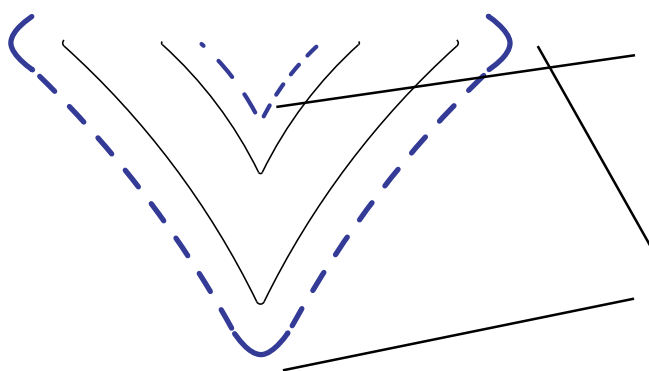
Note: When you stitch inside with a round foot you will get a point.

Note: When you go around a point with a round foot you will not get a point.

Simple Block Design 1

1) Place one tip of the Diamond 1/4" away from the center of the 4-point Grid and the opposite tip on a vertical line such that the long length of the diamond is on the vertical line. (See Illustration 2)

2) Stitch a complete diamond. Needle down. (See Illustration 3)

3) Rotate template to a horizontal line. Align template as before with one tip 1/4" away from the center and the opposite tip on the horizontal line. (See Illustration 4)

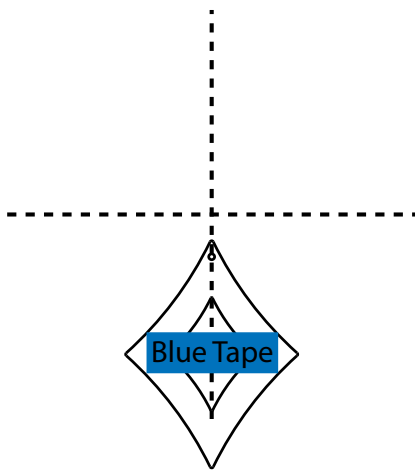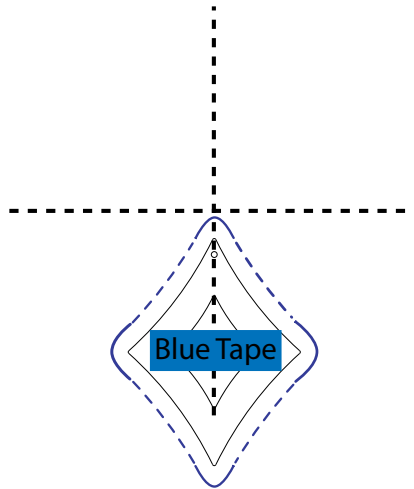4) Stitch from where you left off, stitch a complete diamond. Needle down. (See Illustration 5)
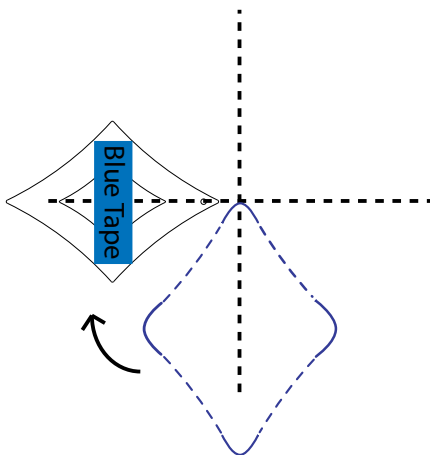
Blue Tape

Illustration 2

Blue Tape

Illustration 3

Blue Tape

Illustration 4

Blue Tape
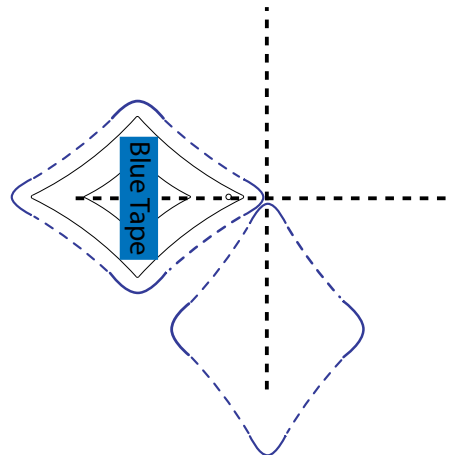
Illustration 5

Simple Block Design 1

5) Rotate template to a vertical line. Align template as before with one tip 1/4" away from the center and the opposite tip on the vertical line. (See Illustration 6)

6) Stitch a complete diamond. Needle down. (See Illustration 7)

7) Rotate template to a horizontal line. Align template as before with one tip 1/4" away from the center and the opposite tip on the horizontal line. Stitch a complete diamond as shown in Illustration 8. This will complete the design as shown in Illustration 9.
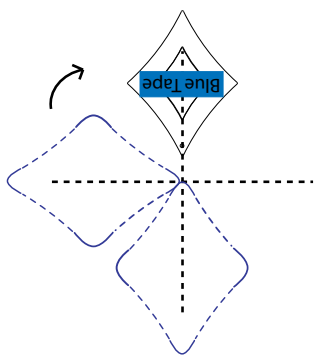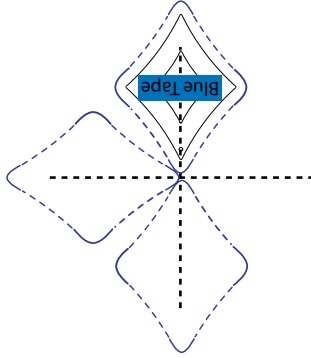
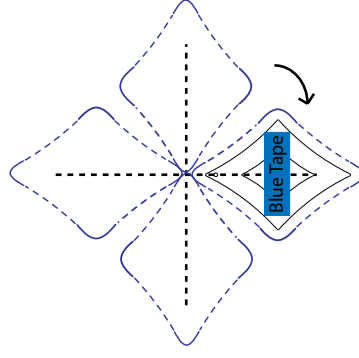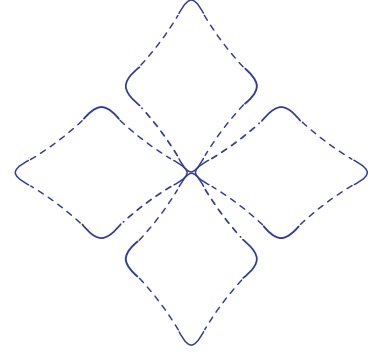Illustration 6   Illustration 7   Illustration 8   Illustration 9

If you would like a stitching with more complexity, try adding another four (4) Diamonds.

8) Place the long axis of the Diamonds on a 45° line with the tip of the template 1/4" away from the center and the opposite tip on the 45° line. (See Illustration 10)

9) Stitch a complete diamond. Needle down. (See Illustration 11)

10) Rotate the template to the next 45° line. Align template as before with one tip 1/4" away from the center and the opposite tip on the 45° line. Stitch a complete diamond. Needle down. (See Illustration 12)
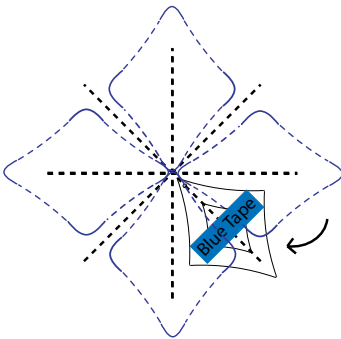
11) Rotate the template to the next 45° line. Align template as before with one tip 1/4" away from the center and the opposite tip on the 45° line. Stitch a complete diamond. Needle down. (See Illustration 13)
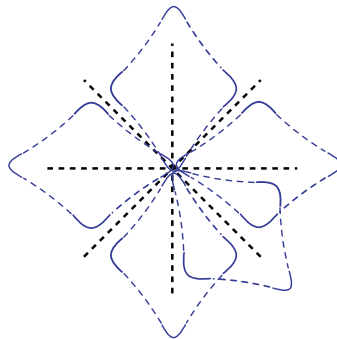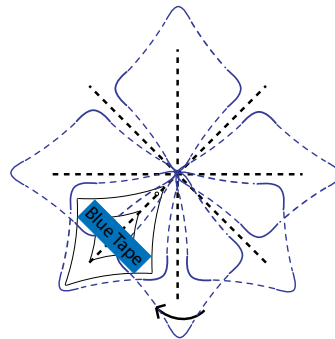
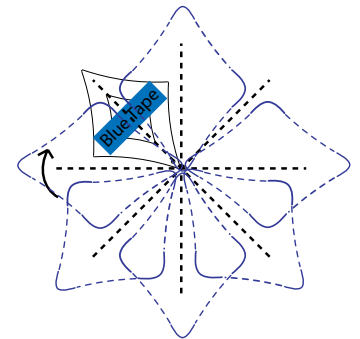Illustration 10   Illustration 11   Illustration 12   Illustration 13

Simple Block Design 1

15) Rotate the template to the next 45° line. Align template as before with one tip 1/4″ away from the center and the opposite tip on the 45° line. Stitch a complete diamond as shown in Illustration 14. This completes the design as shown in Illustration 15.
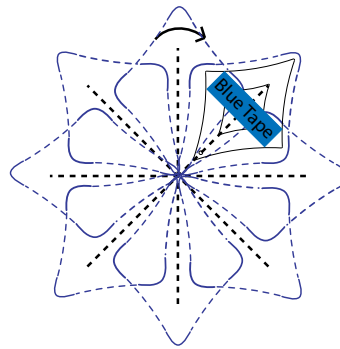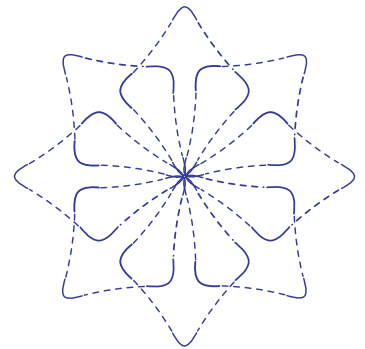
Illustration 14

Illustration 15

Simple Border Design 1:

Create a Diamond Chain using Diamond Machine Quilting Tool and the "Slide" technique.

1) Place the Diamond with the long axis on the center of your border as shown in Illustration 37. For this design we are using a 4″ border.

2) Stitch half a diamond. Needle down. Shown in Illustration 38.

3) Slide the template to foot position. (See Illustration 39) Stitch half a diamond. Needle down.

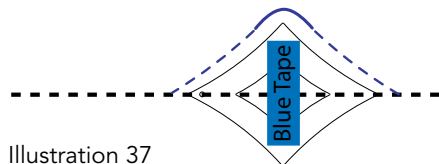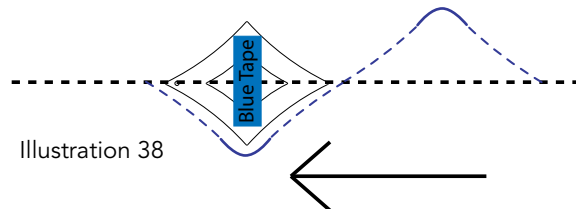Illustration 37

Illustration 38
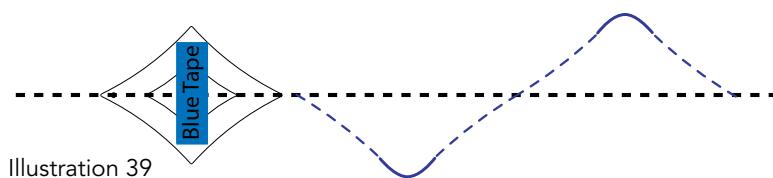
Illustration 39

4) Continue the slide technique until border is desired length and stitch a complete diamond. Then continue stitching half diamonds shown in Illustration 40 until you complete the design as shown in Illustration 41.
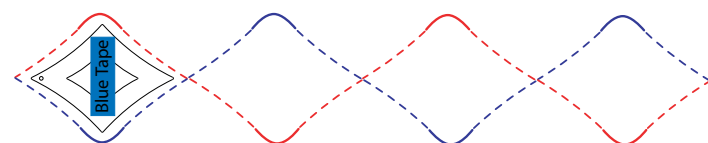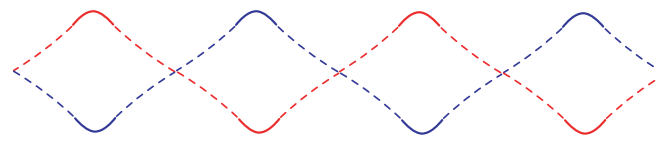
Illustration 40

Illustration 41

Interlocking Diamonds

A complex looking design can be created by laying another Diamond Chain on top of another Diamond Chain.

5) Place the Diamond with the long axis on the center of your border. Slide the template along the center line until the short axis is bisecting the cross point of the previous border design. (See Illustration 42)

6) Stitch a half diamond as shown in Illustration 43. Needle Down.

7) Slide the template over and stitch a half diamond. Needle down. (See Illustration 44)

8) Continue the slide technique as shown in Illustration 45 until border is desired length. Stitch a whole diamond and continue stitching half diamonds until you complete the design. The completed design is shown in Illustration 46.
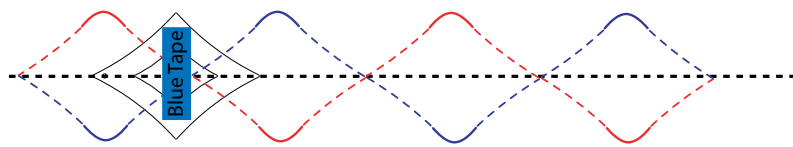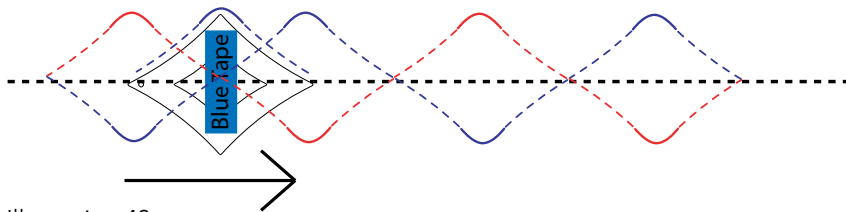
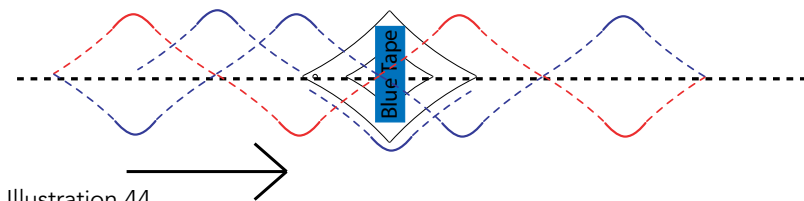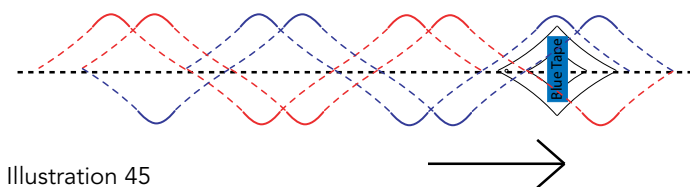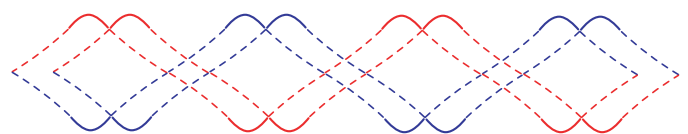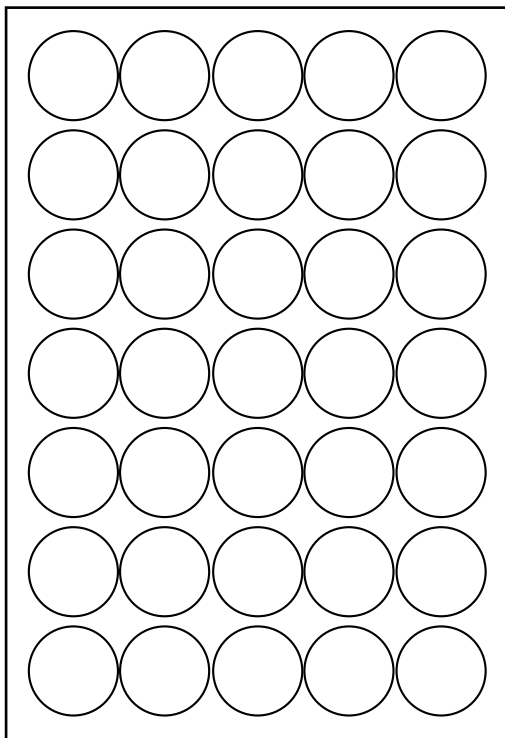Illustration 42

Illustration 43

Illustration 44

Illustration 45

Illustration 46

Helps to prevent templates and rulers from slipping on fabric. These low profile, clear dots will not interfere with the template but rather will aid in "stability" of the template.

Your Grip Stop Dots are great for:
- Holding templates and rulers to fabric
- Fingertips to aid and grip during needlework
- Replaces the traditional thimble allowing you to work on projects without removing thimble.

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