

BERNINA⁺

Triple Play

Created by Debbi Lashbrook



Embroidery Software

3D Fashion
Pattern Software

Border Software

Today's technology opens so many doors for designing our own garments exactly as you want. This jacket uses three separate software programs to make sure the style, the fit, and the embellishment are just right!

The jacket shown started with the Boxy Jacket pattern of the My Label pattern fitting software and is embellished with free-motion couching stitched using an open embroidery design, customized using the BERNINA[®] embroidery software and combined using the BERNINA[®] Border software.

Supplies

- Fabric yardage based on My Label calculated fabric requirements
- Interfacing for jacket facings
- My Label Boxy Jacket pattern
- La Espiga Nylon Thread
- Mettler polyester thread to match fabric
- Mettler polyester thread to match cording **or**
- YLI invisible thread
- Free-Motion Couching Foot #43
- Design Card: Fashion Jewels
- Needle: Size 80/12 universal
- Marking pencil or pen
- Cut for the Cure Ruler
- Hoops:
 - artista 255 x 145 Oval Hoop
 - artista 400 x 150 Mega Auto Split Machines
- 101 Quilt Basting Spray

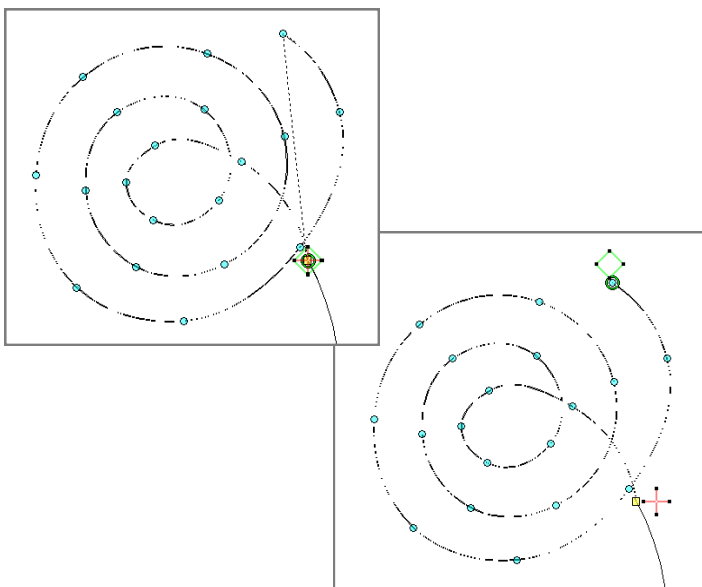


BERNINA[®] Embroidery Software: Measuring the Embroidery Designs

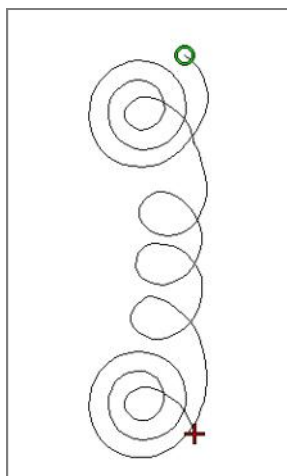
Starting Design:

- Open the design file BE 10552.
- Choose File > Save As and name design: Starting Design.
- Select the design and ungroup.
- Delete the bottom two sections of the design so that only the top repeat remains.
- Delete these sections by first selecting them (hold down the <Ctrl> key to select both at the same time) and hit the <Delete> key on your keyboard.
- Hold down the <Ctrl> key on the keyboard and select the top swirl, then the next portion of the design, and then choose Arrange > Sequence as Selected. This rearranges the stitching order of the design.

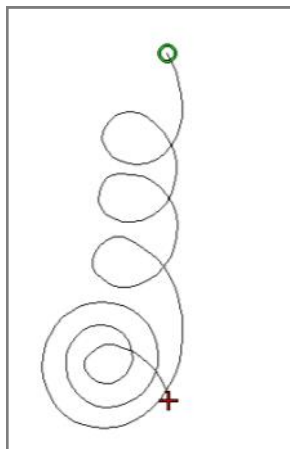
- To eliminate the jump stitches in the top swirl, select it and click on the Reshape Object icon. Notice that the start and stop point are at the same point. Select the start point (green square); click and drag it to the beginning of the design swirl.
- Hit <Enter> key to activate.



- Save the design.
- Print a template by Selecting File > Print.
- Click on Options and make sure these options are checked:
 - Embroidery
 - Start & End Crosshairs
 - Actual size
 - 100%.

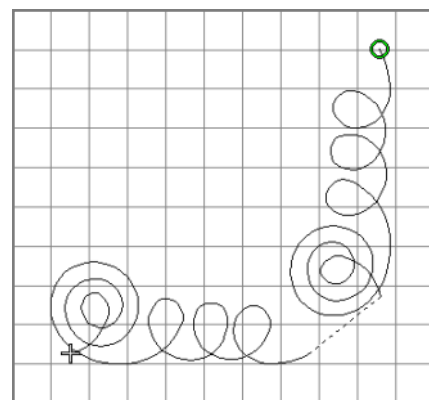


- Delete the top swirl and then Save this file as: Single Connecting Design.
- Print another template of this saved design to help calculate repeats necessary in the BERNINA[®] Border Calculator Software.



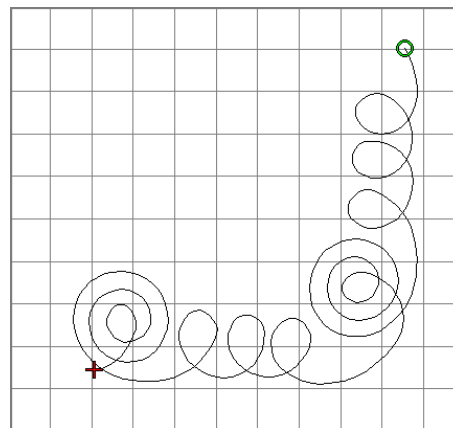
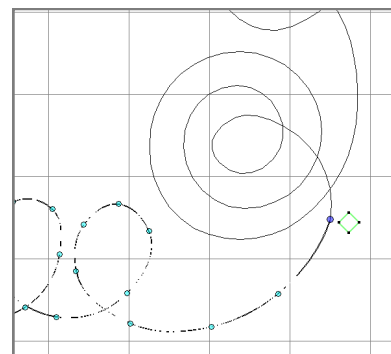
Corner Design:

- Left click on the Grid icon to turn the grid on if it is turned off.
- Start with the Single Connecting Design file; Select File > Save As and name this design: Corner Design.
- Select the design, copy, paste, and right click on the Rotate icon twice. While it is selected, move it so that it forms a right angle to the vertical section and place the design so that it is about one grid away from the vertical design and the loops of the two designs are evenly spaced from the swirl of the design. See the picture of the corner design as a guideline.



- Some reshaping will be necessary to join the corner designs. Select the horizontal design and then click on the Reshape Object icon.

- Use the Zoom icon to zoom in close to the intersection. By clicking and dragging on the end reshape points of each design, you can make a smooth transition from one section to the other.

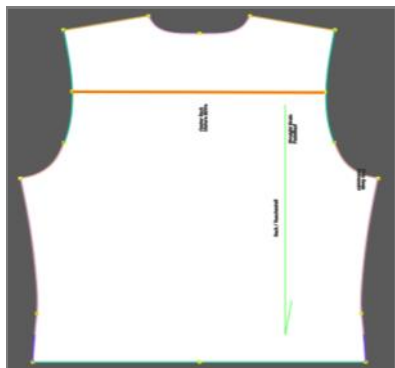


BERNINA[®] My Label Software:

Determining the Style

- Open My Label software and choose your model.
- Click on the Style Drawer; click on the boxy jacket.
- Make any desired style property changes. The following changes were made to the sample:
 - The jacket was shortened to a finished length of 52" from center back neck to hem.
 - A yoke design line was added to the back of the jacket with the pencil tool: Zoom in on the pattern back by selecting the Zoom Rectangle icon and clicking and dragging a box around the jacket back.
 - Click on the Style Drawer, choose the practical stitches tab, and choose a straight stitch from the selections.
 - Click and drag the stitch to the back of the jacket. The tool will change to a pencil.
 - Click about one-third of the way down the armscye. Go to the opposite armscye and click again. Right click to activate the line.

- Select the Move Internal tool to move either of the yellow points or you can select between the line with this tool to move the entire line. You can also use this tool to bring the points completely to the edge of the pattern.



- Save the pattern as Fashion Jewels Boxy Jacket.
- Print the pattern pieces using your desired method of printing.

Pattern Manipulation

- Because the finished jacket does not have buttons and buttonholes, the lap needs to be eliminated from the pattern pieces. To do this, measure out 5/8" (for seam allowance) from the center front of the pattern and cut the remaining pattern away.
- Repeat this same process for the Center Front facing pattern.
- Draw notch match points across the yoke line on the back pattern piece in two places. Cut the pattern apart across the drawn yoke line and add seam allowances to each side of the pattern.

- Cut out the pattern pieces sew the back yoke to the bottom of the jacket and then sew the side seams of the jacket together.



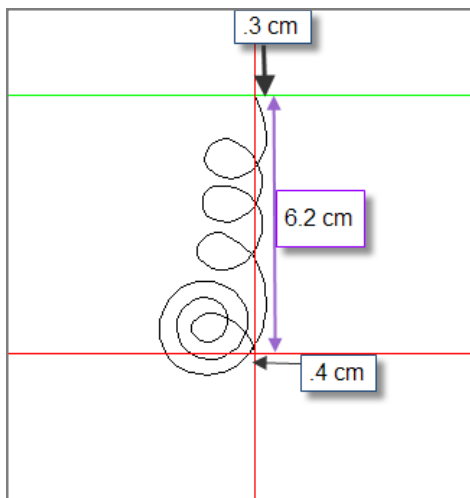
BERNINA[®] Border Calculator Software:

Center Front Design

Using the Border Calculator Software allows you to calculate the number of repeats needed to go down the center front of the jacket and across the back of the jacket. By taking the measurements listed below, you will be able to use the calculations to combine the simple designs to form the final designs for the jacket.

- Measure the finished jacket from the top of the jacket to the bottom of the jacket along the center front. Be sure to not include seam and hem allowances.
- To determine the length of the finished center front design, you will need to calculate the difference between the height of template 1 (Starting Design) and template 2 (Single Connecting Design). By calculating the height differences between these files, you will be able to allow room for the first swirl at the beginning of the design. The height is printed on the templates. The height of the design with the swirl is 86.4 mm and the height of the design without the swirl is 67.6 mm, for a difference of 18.8 mm (1.88 cm). Subtract this difference from the measured finished length at center front.
- On the second template, measure the distance between the start point line and the end point horizontal lines. This measures 6.2 cm.
- Measure from the red vertical line on the template to the furthest point of the design on the right hand side. This measures .3 cm.

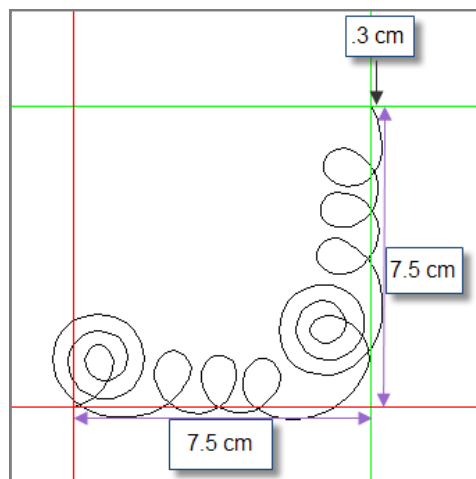
- Measure the distance between the lower horizontal line and the lowest point of the design at the bottom edge. This measures .4 cm.



Because the center front design will be slightly different than the design across the bottom of the jacket, it is necessary to use both a straight border calculation and a rectangle border calculation.

- Open the Border Calculator software.
- Enter the following information in the software:
 - Shape Selection: Straight
 - Pattern Selection: My Pattern
 - Measurement System: Centimeters
 - Desired distance between pattern and hem edge: 1 cm
 - Length: Measured length along center front of jacket minus 1.9 cm. (This is 1.88 rounded off) (In the sample, this was 50.2 minus 1.9, for a total of 48.3)
 - S-R value: 6.2
 - A-S value: 0 (there is no overhang at the start of the design)
 - R-Z value: .4
- Click on the Results Window: In the straight border there will be 7 repeats and the design will start 2.2 cm from the top edge of the garment.
- Measure along the bottom edge of the jacket from center front to the center front on the opposite side. This measurement will be used in the software for the length of the rectangle shape. In the sample, the jacket measured 109 cm.
- For the straight design, the S-R distance is 6.2 as measured above. The H value is the distance between the vertical start line and the right edge of the design. This value is .3 cm.

- Next, measure the corner template to record the necessary measurements in the Border software. Follow the illustration to measure the values to record in the software. For the Corner Design, measure from the start point line down to the end point design; then measure from the start point of the horizontal design to the end point of this design. These values are both 7.5 cm.



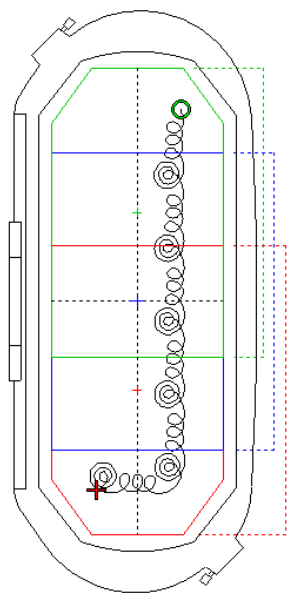
- Enter the following information in the software:
 - Shape Selection: Rectangle
 - Pattern Selection: My Pattern
 - Measurement System: Centimeters
 - S-R value: 6.2
 - H value: .3
 - S-C value: 7.5
 - C-R value: 7.5
- Enter your measured amounts for length and width of the cloth in the area provided. Decide how far you want the design from the edge of the jacket and enter that in the "Desired distance between pattern and hem edge."
- Click on the Results Window: In the example, 14 repeats + 2 corner designs will be stitched.

BERNINA[®] Embroidery Software: *Creating the Final Stitch Files*

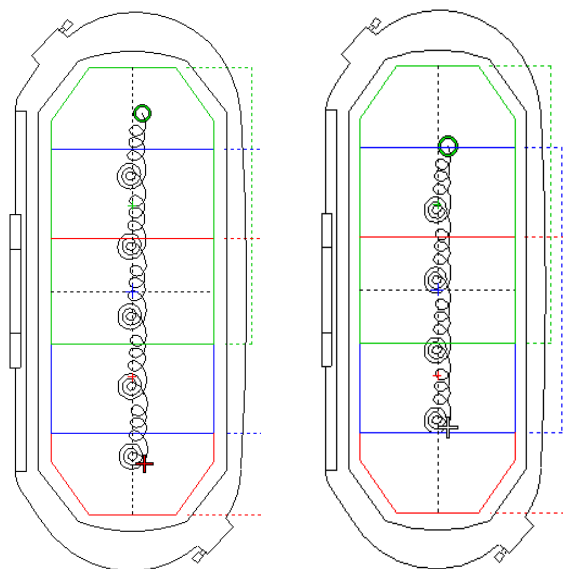
To save time when embroidering, you can combine the designs in the embroidery software for use in the Mega-Hoop. It is recommended that templates be printed for each design created in the software.

Center Front Design: The Border Calculator Software calculated seven repeats for the center front straight design. Since one of these is the corner design, six more repeats are needed. Also, the first one of these will be the Starting Design. The lower part of the design will be combined first so it is known how many repeats fit into the Mega Hoop,

- Open the Single Connecting Design; Right click on the Hoop icon and select artista 400 x 150 Mega Auto Split Machines; Click on Show Hoop
- Make a quick clone by right clicking and dragging the design. Zoom in to align the end of the first design with the beginning of the second.
- Clone the single design one more time. When there is only room for one more repeat, go to File > Insert Design and insert the Corner Design. Align this file as well.
- Select all parts by holding the <Ctrl> Key down on the keyboard and select the letter "A" on the keyboard.
- Select align designs right.
- Save this file as Lower Center Front.



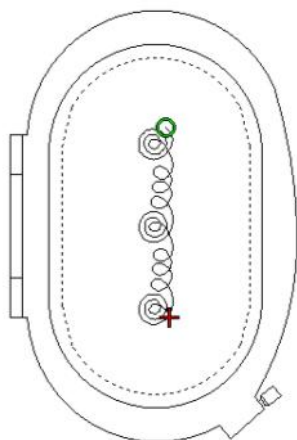
- Open the Lower Center Front file;
- Select File > Save As and name this file Lower Jacket 5 repeats.
- Select the design and ungroup the design.
- Choose the corner design and delete it.
- Right click and drag another repeat. Align the start point with the stop point of the continuous design. This file contains five repeats. Two of these files will be stitched, leaving four more repeats (total of 14 in the sample) to be stitched before turning the corner. Delete one repeat from this file.
- Save the file as Lower Jacket 4 repeats.



Lower Jacket 5 repeats Lower Jacket 4 repeats

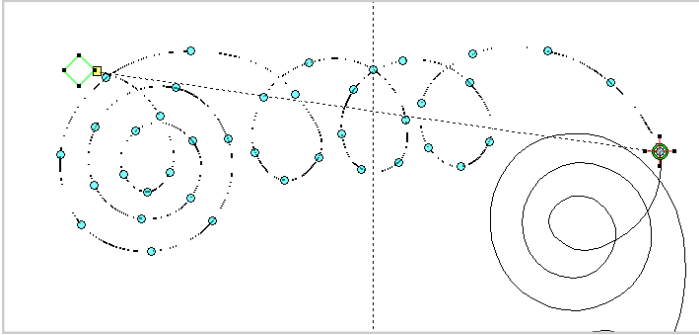
Since there were five repeats, including the corner repeat, two more repeats must be stitched to complete the center front design (total of 7 repeats).

- Open the Starting Design and choose File > Insert Design.
- Select the Single Connecting Design
- Align the beginning of the second design with the end of the first design. Select both designs and align along the right by clicking on the Right Align Vertical Centers.
- Save this as Upper Center Front file.



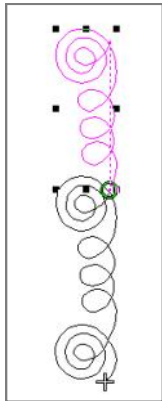
To continue up the other side of the jacket, the Lower Center Front file will need to be mirrored.

- Open the Lower Center Front file.
- Select the design; select the Mirror Vertical icon.
- Ungroup the design; then select the corner design and ungroup it as well.
- Hold the <Ctrl> key down and select the corner design first, then work from the top of the design to the bottom portion of the design.
- Choose Arrange > Sequence as Selected.
- Save this file as Mirrored Lower Center Front.
- To eliminate the jump stitch in the corner of the design, select the first portion of the design, and move the start position to the far left edge of the design.



- For the last file, open the Upper Center Front.
- Select the design and select Mirror Vertical icon.
- Ungroup the design and hold the <Ctrl> key while selecting the top portion of the design and each other portion of the design working top to bottom.
- Choose Arrange > Sequence as Selected.
- Save the file as Mirrored Upper Center Front.

- To eliminate the jump stitch at the beginning of the design, select the first portion of the design.
- Select Reshape; move the start position to the beginning of the design.
- Save the file and get ready to stitch your design!



Use your printed design templates as a check for positioning on the jacket. Make sure to allow for hem and seam allowances.



Mark the start point of each design file with a cross hatch mark on the jacket with the fabric marker of your choice.

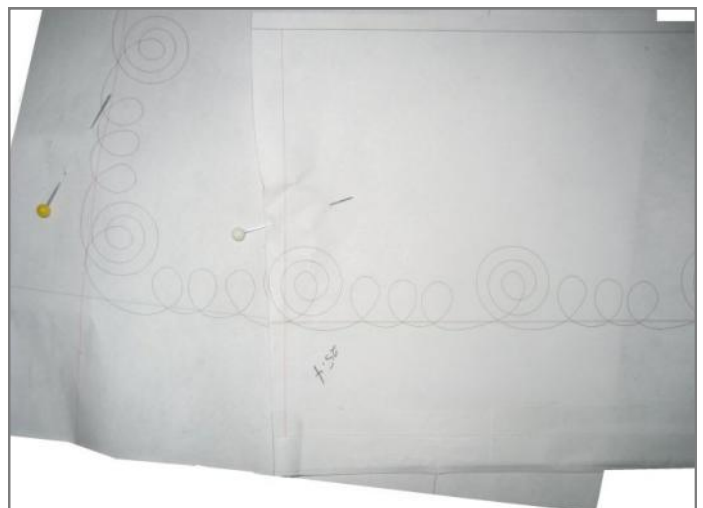


Stitching Your Design

Draw a guideline around the jacket edges adding the measurement of the desired distance from the edge of the jacket used in the Border Calculator Software to the hem allowance of the jacket. In the sample, a 2" border was added around the jacket, along the center front and across the back of the jacket.



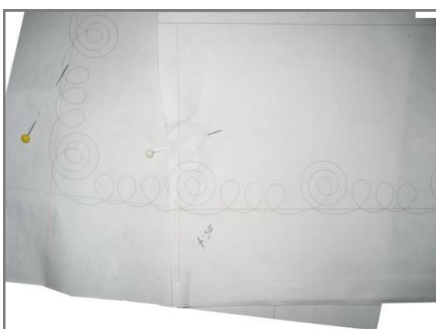
At the left-hand corner of the jacket, you will have an extra swirl in the design that will need to be eliminated when the jacket is stitched.



Hoop Ultra Clean & Tear in the artista 255 x 145 Oval hoop. Spray with 101 Quilt Basting Spray. Wait a few seconds until it becomes tacky. Align the jacket using the edge of the hoop as a guideline for positioning. Check the alignment with the plastic template for the hoop.



Hoop Ultra Hoop Clean & Tear in the Mega Hoop and spray the stabilizer. Check for accuracy using the plastic template. Select the design file, Lower Center Front. Align the start point with the ending point of the last design.



Open the design file, Upper Center Front in the machine of your choice. Place Free Motion Couching Foot #43 on your machine and thread the cording through the foot as

instructed in the directions that are included with the foot., Align the start point of the design using the Move Motif icon on the machine so that the first needle penetration aligns with the start point of the design.

Stitch the file. Use each of your marked start points as a check when aligning the next design



After the first design is finished, remove the hoop and turn the hoop to the underside to trim the Ultra Clean & Tear from the back of the design. Leave the cording threaded in the foot.

Pull the cord to tighten it within the foot after the hoop is into position. Also, be careful that plenty of cording is pulled from the spool and that it doesn't get caught up in the jacket. Reposition the Mega Hoop as instructed as the design stitches.

Continue this process, stitching the files, removing stabilizer, re-hooping new stabilizer, and re-aligning the designs as needed. Check that the jacket side seams remain open when placed on the stabilizer.

Stitching the Mirrored Lower Center Front File: Hoop and spray the stabilizer as instructed before, but don't place the jacket on the stabilizer.

The corner design will have an extra swirl at the beginning of the design that will need to be by-passed. After you bring the design file into the machine, select the broken thread icon and move ahead in the design to bypass the swirl.

Mark this starting point on the stabilizer; remove the hoop to place the jacket on the stabilizer, aligning the start point of the new file with the ending point of the previous design.

Place the hoop on the machine and stitch design.

For the last design file, use the large oval hoop. Follow the directions for aligning the design to begin stitching. When finished stitching, leave a long tail of cord at the end of the design that can be caught in the seam allowance when the facing is stitched to the jacket.

Finish constructing the jacket following the directions in the My Label software.

