

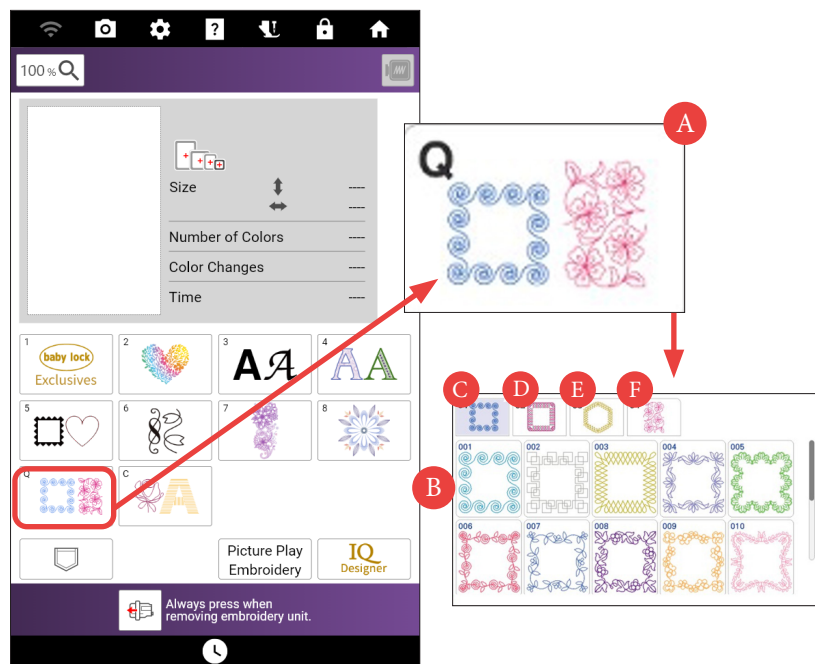
BABY LOCK *Radiance* TIPS FOR SUCCESS



◦ ENHANCED QUILT BORDER ◦

ENHANCED QUILT BORDER WITH EMBROIDERY

Quilting in the hoop has quickly become a favorite way to utilize embroidery. The Baby Lock Radiance includes several Quilt Border features that makes it simple to quilt the borders of your quilt tops. Under the Q category in embroidery, you can choose to create Enhanced Quilt Borders or do the all over Edge-to-Edge Quilting. The Quilt Border Options can be found under Tabs 1, 2 & 3. Included are 25 single-color rectangular border patterns, 5 two-color rectangular borders and 5 hexagonal borders.



- A**  Quilt Sashing and Edge-to-Edge Quilt Patterns
- B**  Quilt Pattern Preview Window
- C**  Single-Color Rectangular Quilting Border Patterns
- D**  Two-Color Rectangular Quilting Border Patterns
- E**  Hexagonal Quilt Border Patterns
- F**  Edge-to-Edge (E2E) Quilt Patterns

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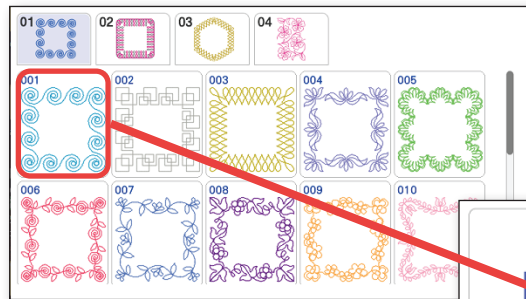
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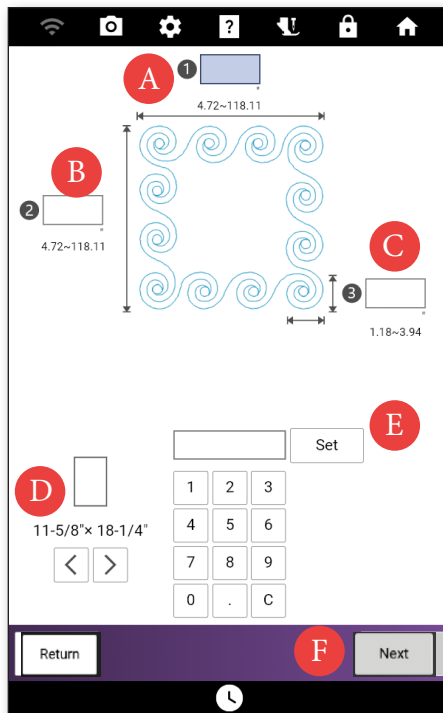
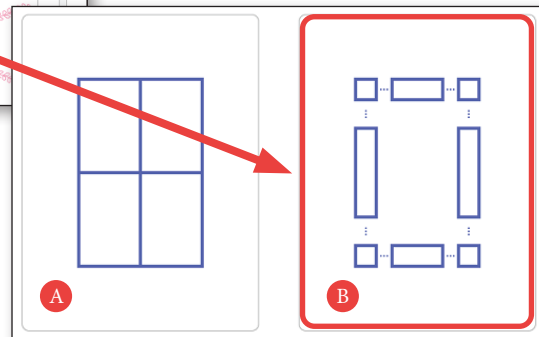
◦ ENHANCED QUILT BORDER ◦

ENHANCED QUILT BORDER AND EDGE-TO-EDGE



Select Method of Pattern Division

- A** Auto-Split Quilt Sash
- B** Semi-Auto Split Quilt Sash



- A** Embroidery Area Width
- B** Embroidery Area Height
- C** Sash Width/Height
- D** Embroidery Frame Selection
- E** Set Measurement Entries
- F** Move to the Preview Screen

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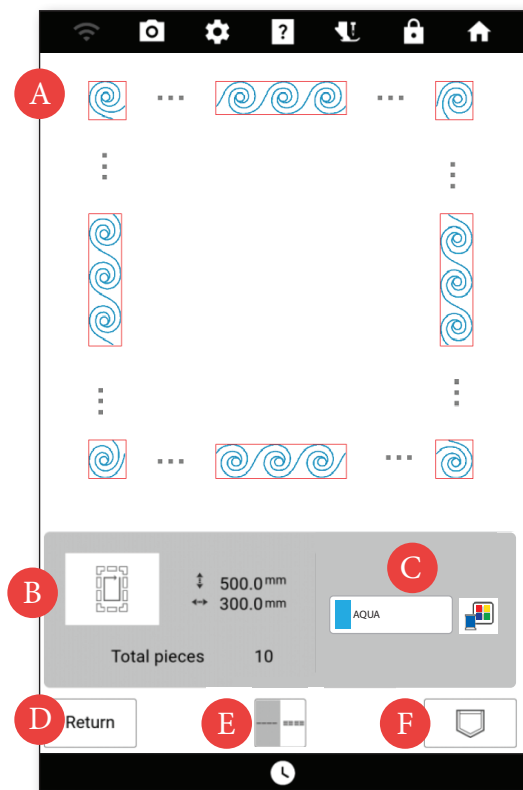
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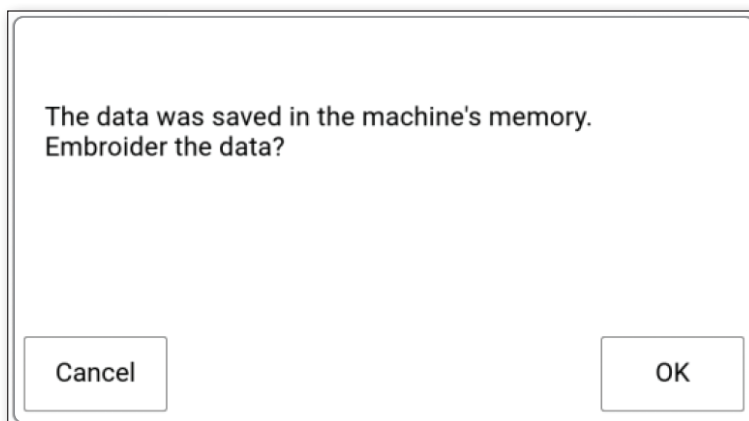
◦ ENHANCED QUILT BORDER ◦

ENHANCED QUILT BORDER AND EDGE-TO-EDGE



- A**  Pattern Division Preview
- B**  Pattern Size and Total Section Count
- C**  Thread Colors - Select to Change Color
- D**  Return Return to Previous Screen
- E**  Single or Triple Stitching Selection
- F**  Save to Memory

Once the pattern selection and quilt information has been entered and the Save to Memory is selected, the following message will appear. The design has been created and saved to the machine's memory. Select OK to continue forward and stitch the design. If the design will be completed at a later time, select Cancel. The embroidery files will remain in the machine's internal memory.



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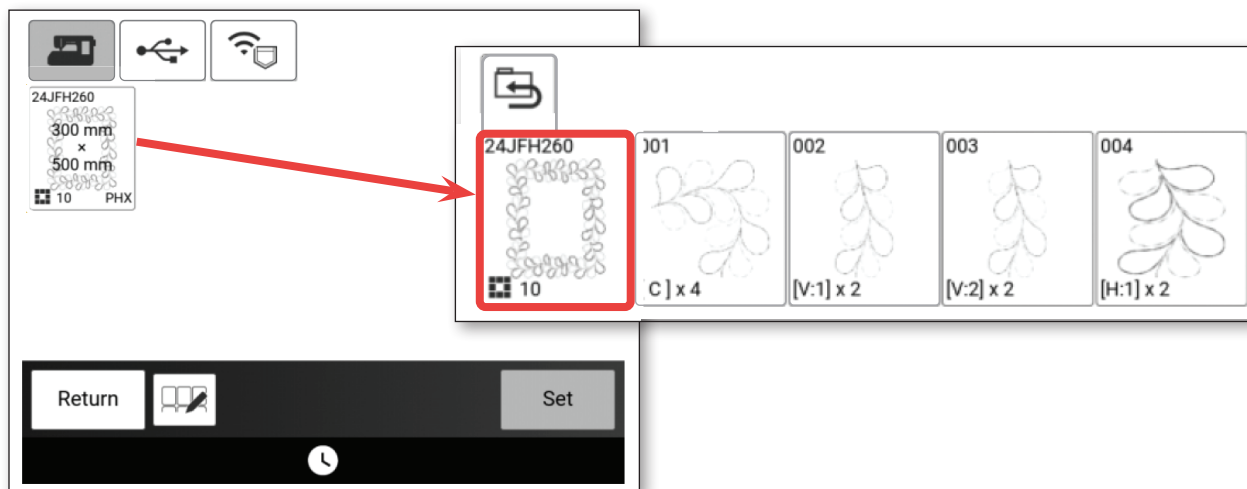
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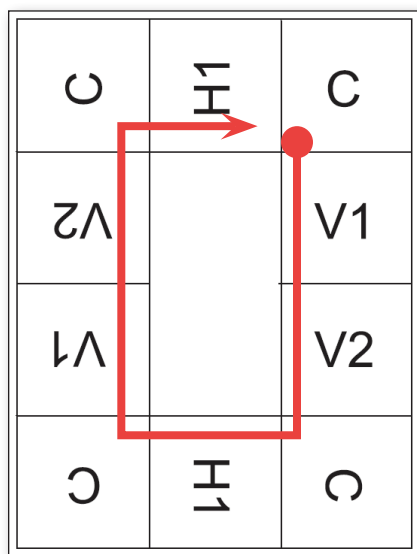


◦ ENHANCED QUILT BORDER ◦

ENHANCED QUILT BORDER AND EDGE-TO-EDGE



When a design is saved using any of the quilting embroidery patterns, the saved file will contain multiple files. The first file will provide on-screen instructions during the process of embroidery and automatically advance through the various sections of the design, which is indicated by the symbol and number in the lower left corner of the preview thumbnail. The remaining files, which will differ in number for each saved pattern, are used to embroidery each section of the design manually, using alignment features of the machine to create proper alignment. Each of these files are labeled to show where they fall in the pattern and how many times each will be stitched to complete the project. These individual sections can also be used to re-stitch a section of a quilting project that may have not been as successful as desired, or to embellish additional sections of the quilt or accompanying projects.



Quilt sashing is started in the upper-right corner of the quilt and follows the sashing in a clock-wise motion. The diagram to the left shows the placement of sections. In larger projects, the number of sections will increase sequentially.

Key:

- C = Corner (all four corners will be the same piece)
- V = Vertical Sections with each section numbered in sequence
- H = Horizontal Sections with each section numbered in sequence

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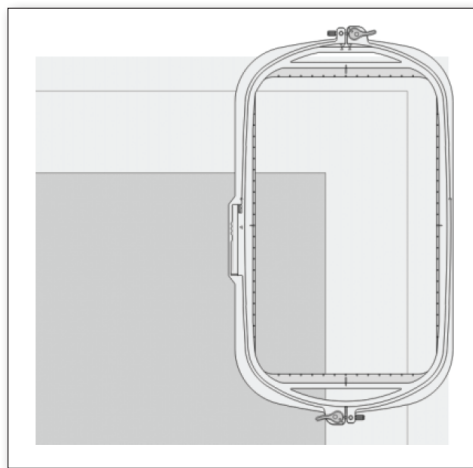
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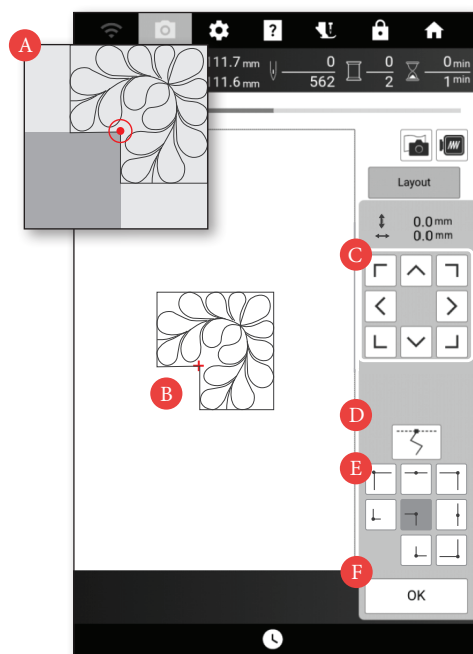
◦ ENHANCED QUILT BORDER ◦

ENHANCED QUILT BORDER AND EDGE-TO-EDGE



When using the Semi-Automatic Split pattern, each step of the process will be fully detailed on screen. This will include proper hooping, positioning, and rotation. Taking the time to read the screen and follow the provided directions will ensure success. The following information highlights major parts of the process. The first step is to hoop the quilt so the upper right corner is positioned within the embroidery field as shown in the illustration.

There are two basic alignment processes used when working with the semi-automatic quilt sashing. On-screen instructions will be provided to use the Move Keys to align specific points in the design with landmarks on the quilt (the point will be projected on the hooped fabric) and the Rotate Keys will be used to ensure alignment of the edges of the pattern with the edges of the sashing. (See diagrams below).



- A**  The initial alignment point will be displayed on-screen. This point will be the area to focus on (always focus on the Red Circle).
- B**  The crosshairs will correspond with the alignment point (Red Circle) from the previous screen. The crosshair position can be changed using the Alignment Position (E).
- C**  Use the Move Keys to reposition the alignment point, which is projected on the fabric, so that it aligns with the area in the quilt sashing indicated in previous screen.
- D**  The Start Point can be selected to check the alignment of the beginning stitch.
- E**  The Alignment Position keys can be selected to check various points of the pattern. The number of alignment keys will correspond with the shape of the pattern.
- F**  Select OK to accept the position and proceed to stitching or additional alignment.

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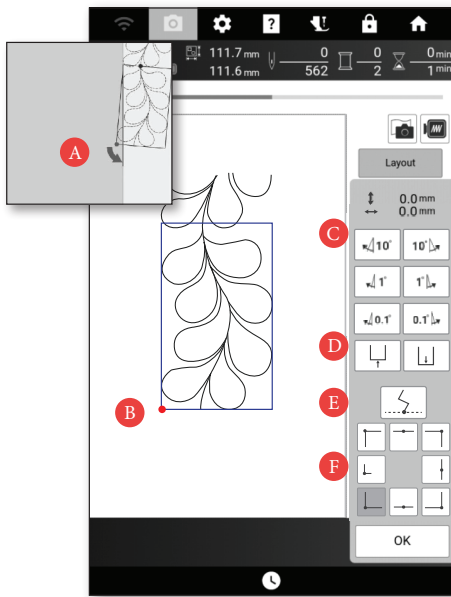
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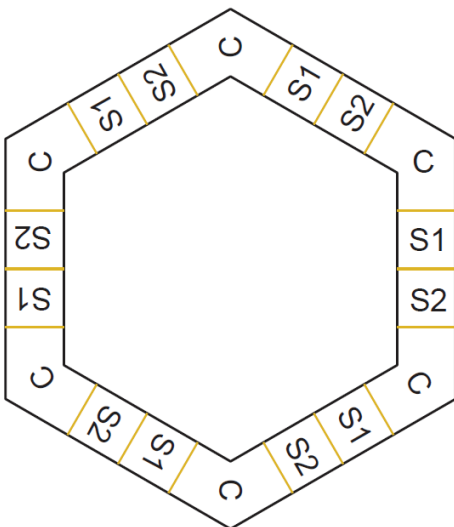
◦ ENHANCED QUILT BORDER ◦

ENHANCED QUILT BORDER AND EDGE-TO-EDGE



- A** The alignment point is shown in the guide screen as being the lower left corner with an arrow indicating rotation will be used to ensure placement.
- B** The alignment point, which is determined based on the Alignment Position keys, is shown here in red. The rotate keys are used to adjust the placement.
- C** The Rotate Keys allow for the adjustment of the alignment point on edge pieces.
- D** These keys allow the pattern to be lengthened or shortened as needed. It is generally used only on pattern pieces leading into a corner or the final pattern piece.
- E** The End Point can be selected to check alignment of the last stitch. This will usually only be helpful if this is the last section being stitched.
- F** The Alignment Position keys can be selected to check various point of the pattern. The highlighted position will be the current alignment point shown on screen.

The Move Keys and Rotate Keys will be the main key to ensuring that all alignment points are properly adjusted. A pattern is quickly developed as the process advances. If the project has to be re-hooped, both the Move and Rotate features will be used (Move to align the first stitch and Rotate to ensure the pattern alignment matches vertical alignment of pattern related to the quilt). If re-hooping is not required, the machine will automatically know where the last stitch of the previous pattern piece is, so the Move feature isn't needed, meaning that only the Rotate keys will be used.



The two-color and hexagonal borders will follow the exact same process as highlighted above. For the two-color patterns, each color will stitch for each section. For the hexagonal patterns, the pieces will be comprised of a single corner piece that is repeated six times, and a series of side sections, each repeated a total of six times as well. The Move and Rotate pattern remains the same as previously described.

For the hexagonal borders, you will be asked for the measurement on the inside points of the quilt, rather than the outer edges. When you go to stitch these hexagonal borders, the key is to ensure that you have the first corner piece placed well. This will help you to have success with the following side pieces. Try not to over-rotate the corner pieces.

There are several easy projects that you can create using fabric strips cut into 60 degree wedges. These make great practice quilt tops!

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BABY LOCK *Radiance* TIPS FOR SUCCESS



◦ ENHANCED QUILT BORDER ◦

GOOD TO KNOW

HERE ARE SOME TIPS AND TRICKS THAT CAN COME IN HANDY WITH WORKING WITH BORDERS:

- If the border/sashing that is being created is on the outer edge of the quilt, **don't forget to take binding into account**. The binding will result in the outer sashing area to be decreased by approximately 1/4" on each side. This will impact the overall size of the quilt and the size of the border pattern.
- Take your time and read through each screen. If you pay attention to what is being shared on screen, and you adhere to the guidance, **you will have success**.
- **Practice makes perfect!** The more you use this feature, the better you will get at it.
- **Remember that you always have access to the individual sections of the pattern.** If something goes wrong, such as a piece not being able to be adjusted to fit, you can always use the individual pattern pieces and the on-board alignment tools of the machine to hand-place a difficult section. This is especially useful when you need to resize a section of the pattern.

GOOD TO KNOW

SOME OF THE MOST IMPORTANT THINGS TO REMEMBER ARE:

- **The Move and Rotate keys** can be revisited at anytime during the alignment process by simply selected the Layout key.
- **Auto-Resume is available** when using the Enhanced Quilt Border and Edge-to-Edge Quilting. This means that an interruption to the stitching process, intentional or accidental, will result in the machine remembering where the user is in the process and automatically resume with that point in the design once power is restored. It is recommended when relying on the Auto-Resume that prior to turning the machine off, the machine complete the process of aligning the next section. This will ensure the next section of the pattern is ready to stitch as soon as the Auto-Resume kicks in.



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Questions & Answers



◦ ENHANCED QUILT BORDER ◦

WHAT DO I DO IF I CAN'T COMPLETE THE QUILT BORDER ALL AT ONE TIME? CAN I STOP IN THE MIDDLE OF STITCHING?

The Radiance has auto-resume feature in Embroidery. This means that you can turn off the machine in the middle of stitching and it will ask you if you want to resume stitching the next time you turn on the machine. If you need to stop so you can use the machine for another purpose, have no fear. Note where you left off with the stitching and what section you are currently on. When you are ready to resume, recall the design. Advance through the first few pages of messages until you get to the embroidery layout screen. Select the +/- key. On the bottom of that screen, there is an icon that will allow you to advance to a specific section of the border quilting. Select the last section that you worked on, and then continue the on-screen steps to pick up where you left off.

CAN PURCHASED BORDER DESIGNS OR OTHER MACHINE DESIGNS BE ADDED INTO THE BUILT-IN ENHANCED BORDER FEATURE?

Quilting and Border pattern collections in the machine cannot be added to by the user. Designs that have been purchased or have been designed using digitizing software such as Palette 11 cannot be used as part of the automatic Quilt sashing or Edge-to-Edge program. However, this doesn't mean those patterns won't work on your machine! These purchased or custom designs can be used with the Pattern Connect feature, which allows the user to take advantage of the machine's Camera and Projector to accurately align patterns that span over multiple hoopings, including edge-to-edge designs.

WHAT HOOP SHOULD I USE WHEN QUILTING USING THE ENHANCED BORDER FEATURE?

There are many great hoop options when doing Border quilting. When setting up your overall quilt pattern, you will be asked to select a specific hoop. There are several great options for hoops to use. The Baby Lock Magnetic hoops are one we recommend as they do a great job

of securing your quilt sandwich in the hoop. The DIME magnetic hoops are also a great option as these can stay on the machine while you are re-hooping unlike the Baby Lock hoops. If you find your fabric shifting with the DIME hoops, there are StabilGrips from DIME, that could help secure the layers of your quilt. This can lead to quicker set-up times and adjustments to the quilt sandwich. You also can utilize the larger included hoops as well.

WHAT OTHER THINGS SHOULD I CONSIDER WHEN MANAGING MY QUILT FABRIC FOR THE ENHANCED BORDER FEATURE?

A layered quilt can be a lot to manage, even with all the additional space and embroidery field on the Radiance. Make sure that you give yourself plenty of room to manage and support the weight of your fabrics. That support will assist with any pulling of the fabric and allow the hoop to move freely.

WHAT ARE THE RECOMMENDATIONS WHEN CREATING THE LAYERS OF A QUILT SANDWICH?

A quilt sandwich consists of the pieced quilt top, quilt batting and backing. It is always recommended that you have 4-6" of extra backing and batting all the way around the quilt top. That extra fabric will help you out when it comes to hooping as well. Depending on the size of your quilt top, you may want to consider using a fusible fleece batting or baste the layers using free-motion basting stitches or a spray baste. All these will assist you in managing your fabrics and keep you from having puckering issues.

WHAT DO YOU SUGGEST DOING FOR MY FIRST BORDER ON A QUILT?

If you are new to using this feature, we recommend that you PRACTICE!!! Give yourself a chance to get comfortable with the process. Make a charity quilt or use a panel. Make sure it includes a border section so you can practice. It will be worth it to get comfortable with the process and make any mistakes before you attempt a more sentimental project!

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Questions & Answers



◦ ENHANCED QUILT BORDER ◦

WHEN I GO TO CONNECT, MY PROJECT CONNECTION LOOKS CORRECT, BUT IT IS OFF A LITTLE WHEN I GO TO STITCH.

Since the projector is a representation of the design, it is helpful for visually aligning your design. If when you stitch your first connection point you find that it is off by a little bit, note that distance. As you connect future points, move the projected image over a little on the fabric to adjust for that difference.

The Radiance Manual on page 206 provides some great suggestions for alignment with the quilt borders.

For precise positioning of the start point, rotate the handwheel toward you to check the needle drop point. After checking the needle position, be sure to use the needle up/down key to return the needle to it's highest position.

By checking the needle drop point for each connection and making necessary adjustments, the outcome will be improved and consequently, the your overall satisfaction with this feature will be improved.

SOMETIMES WHEN I GET TO A CORNER, THE PATTERN IS TOO SHORT OR EXTENDS BEYOND THE CORNER POINT OF ALIGNMENT. HOW DO I MAKE SURE MY PIECES ALIGN BETTER?

Be sure to use the keys that extend or shorten the patterns that are located under the Rotate feature. This is especially important on the last design as you near corners. If you overshoot a corner, you may run into some issues. Make sure your quilt math was correct and if needed, exit out of the automated quilt border, retrieve the individual design, and use the size, rotation and move keys to place while using the camera or projector to assist. Then once that is positioned and stitched, you can recall the automated pattern and advance to the next connection point.

WHEN CHECKING MY ALIGNMENT POINTS AROUND THE QUILT BORDER I HAVE A HARD TIME SEEING THE PROJECTED DESIGN. ANY SUGGESTIONS TO HELP THIS?

The Projector is in the bottom left-hand side of your machine, just to the left of the needle area. When using the Border or E2E feature and moving the points of placement to check, you may find that this can be blocked by your quilt fabric or by the foot itself. Make sure to manage your fabric, especially over the embroidery carriage so that is not in the way. If the foot is blocking the view, you could remove the foot or use the bottom center point of placement option to obtain a better view of the bottom left corner of your projected design.

WHAT IF I HAVE A BORDER WIDER THAN THE 3.94" SASH WIDTH LIMIT?

One option with a wider border is to create a double border. You would need to set up the border and stitch that based on the inside of the border. After marking a separate reference point, you could then quilt around that second border. This is a case where we suggest practicing this method to ensure your measurements are accurate and the look you end with is one you are happy with.

WHAT SORT OF CONSIDERATION DO I NEED TO GIVE FOR MY OVERALL WIDTH TO ADJUST FOR MY BINDING?

If you are planning to bind your quilt, you will want to reduce your overall border width to adjust for the 1/4" stitching of the binding. For example, if your quilt with a 3" border measure 36" wide by 48" tall, you would want to enter 35.5" x 47.5". For the sash/border width, you would want to make it 2.5 -2.75". Give yourself some wiggle room with measurements!

Questions & Answers



◦ ENHANCED QUILT BORDER ◦

MISTAKES HAPPEN, EVEN TO THE BEST OF US! HERE ARE SOME WORDS OF WISDOM FOR WORKING WITH THIS PROCESS.

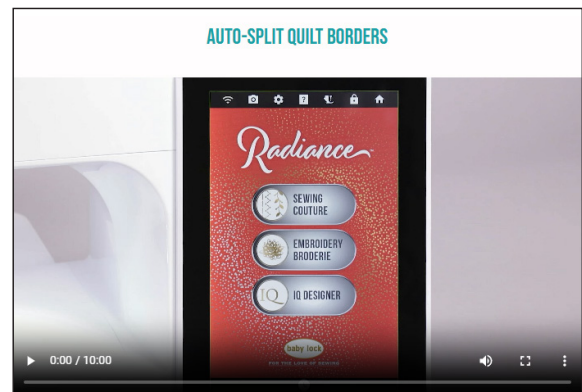
Give yourself a chance to get comfortable with the process. Make a charity quilt or use a cheater panel quilt to familiarize yourself with the Enhanced Border and Edge-to-Edge feature. Include a quilt top with a border so you can practice that as well. It will be worth it to get comfortable. Just remember that there are a lot of things that contribute to the success of your embroidery quilting experience. Quilting on a panel vs. a quilt top can make a difference because you should consider how the quilt is pieced and deal with seams and different thicknesses of fabric. Managing fabric is also another component. As mentioned earlier, using clips, and giving yourself extra flat work surfaces will help you to keep the weight of the quilt out of the equation. When doing this process, remember that there is a lot of re-hooping and fabric managing. All of these can play into the ease of placing each of your designs. If you take time to keep the hooping consistent, that will make the process better and require less rotating and moving of the pattern.

HERE ARE SOME SUGGESTIONS ON HOW TO FIX MISTAKES YOU MAY ENCOUNTER.

If there are situations where an area didn't connect or you feel like something is not close enough to the edge, you have options to help you resolve. Some options are to use free motion quilting to fix those spots using Stitch Sync Stitch Regulation or the regular free motion quilting on the sewing side of the Radiance. IQ Designer can also be enlisted to help fix missed connections. Scan in your hooped area that needs some connection, draw lines using the drawing tools and stitch it out in embroidery.

Just remember! Don't fixate or be critical of every little stitch or detail. Not everything will be perfect, take a step back and then determine if you even notice the issue from afar! Most quilts have little imperfections that make them perfect!

WHAT OTHER RESOURCES DO I HAVE TO LEARN MORE ABOUT THIS FEATURE?



The Machine Help provides a 10 minute video on the Auto-Split borders. In addition to that, there are detailed written instructions included in the Radiance manual to assist you as you learn this feature.

As we continue to record more Radiance content, be sure to watch the SEWED Classes video for Solaris and the Radiance 101 classes (available for a limited time).

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