

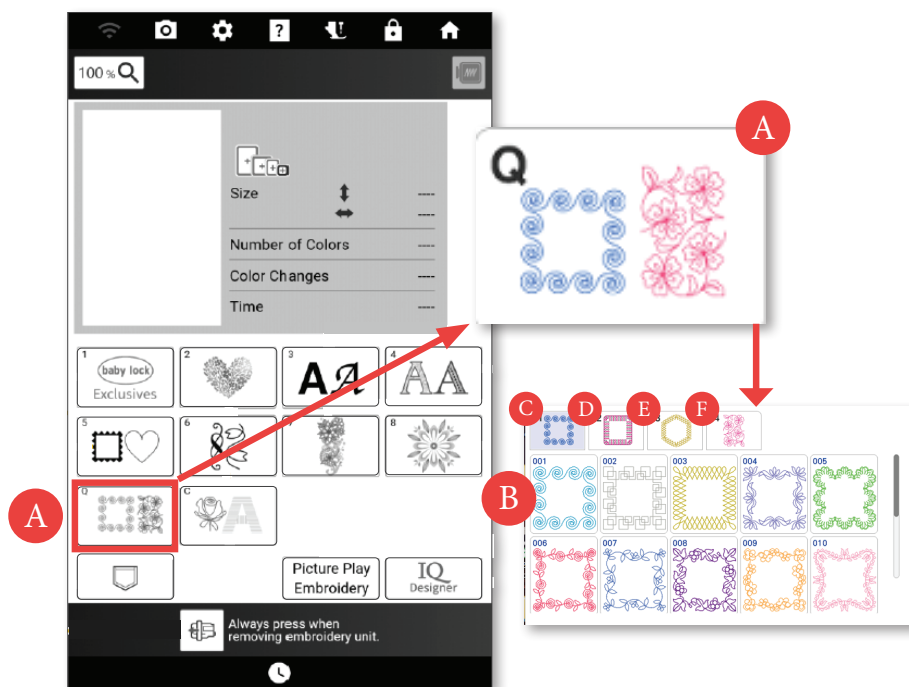
BABY LOCK *Radiance* TIPS FOR SUCCESS









EDGE-TO-EDGE

EDGE-TO-EDGE QUILTING WITH EMBROIDERY

Quilting in the hoop has quickly become a favorite way to utilize embroidery. The Baby Lock Radiance includes an Edge-to-Edge (E2E) feature that makes it simple. Under the Q category in embroidery, you can choose to create Enhanced Quilt Borders or do the all over Edge-to-Edge Quilting. The Edge-to-Edge can be found under the last tab and has a selection of 20 built-in designs.



- 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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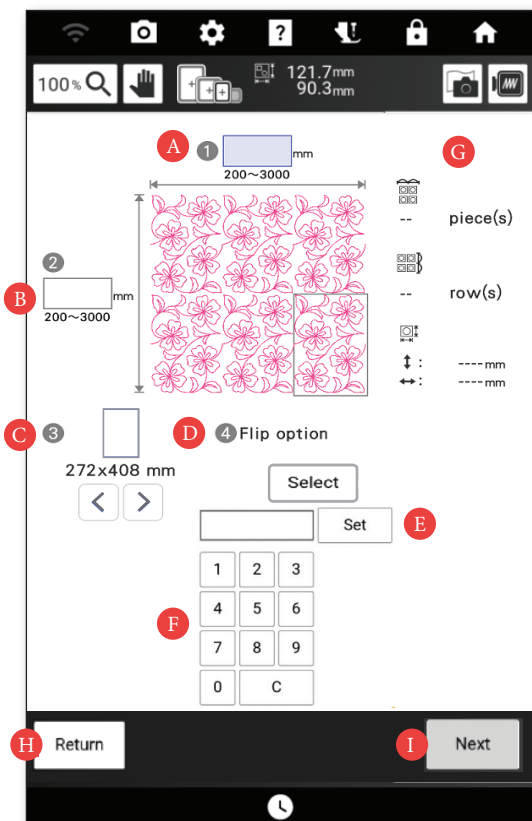
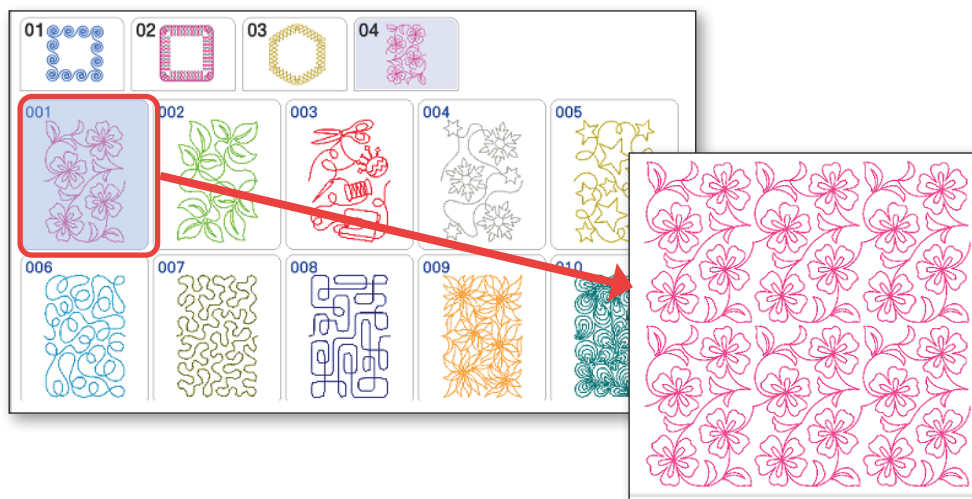
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EDGE-TO-EDGE

EDGE-TO-EDGE QUILTING



- A** Desired width of Quilting
- B** Desired height of Quilting
- C** Hoop/Frame Size
- D** Flip/Pattern Alternation Options
- E** Keypad Entry Setting
- F** Keypad
- G** Pattern Repeat and Size Schematic
- H** Return to Pattern Selection
- I** Accept and Advance to Next Screen

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EDGE-TO-EDGE

EDGE-TO-EDGE QUILTING

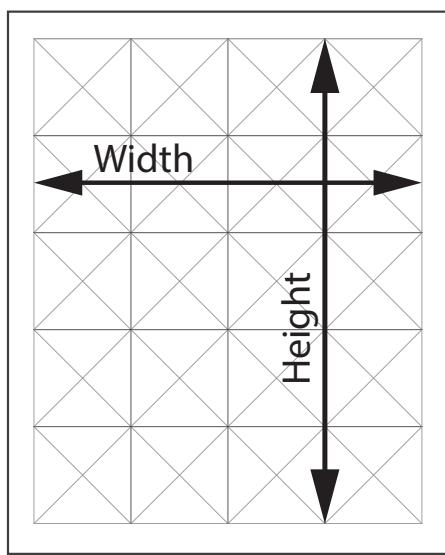


Figure A

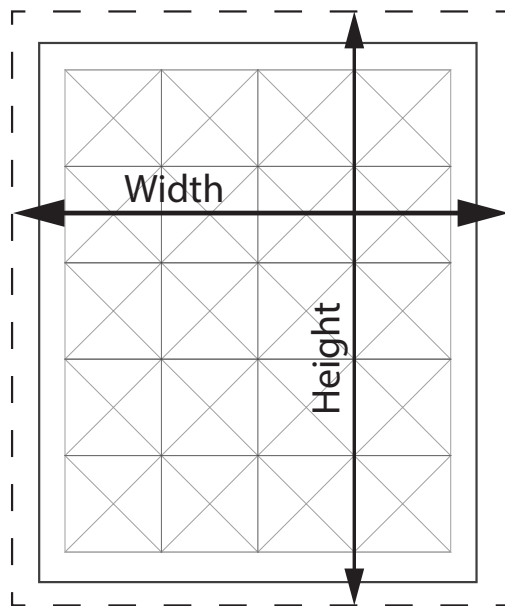
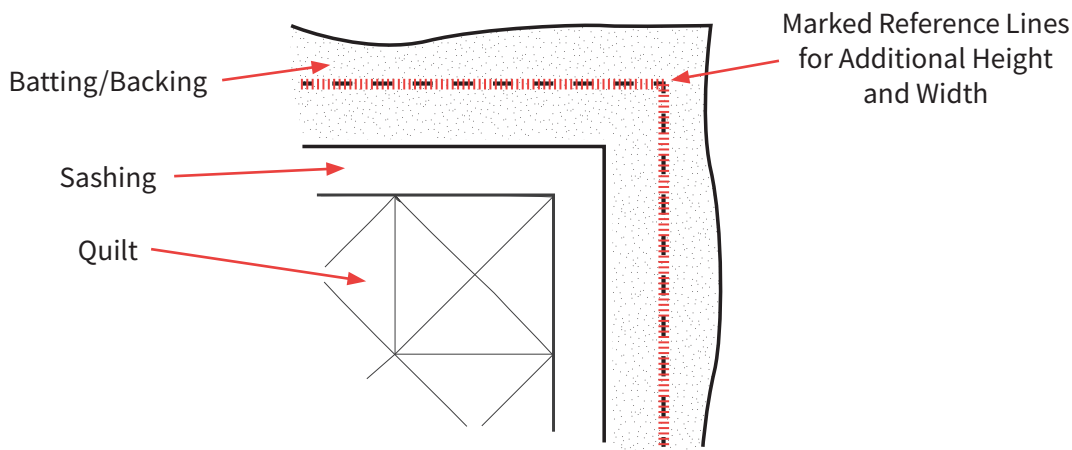


Figure B

When measuring the height and width of the quilt, it must be taken into account if the quilting will be limited to a defined area or if it will be more of a true edge-to-edge pattern. If the quilting will be restricted to a given area, use the actual measurements of that area (Figure A). If a more traditional edge-to-edge pattern is desired, measure the full size of the quilt top and then inflate those measurements by several inches to allow the quilting to extend off the edges of the quilt top into the backing and batting (Figure B). This is a standard practice by longarm quilters that ensures the pattern fully covers the quilt from top to bottom, even if the quilt is not perfectly squared. Additionally, it prevents the creation of a “hard edge” at the edge of the quilt top.



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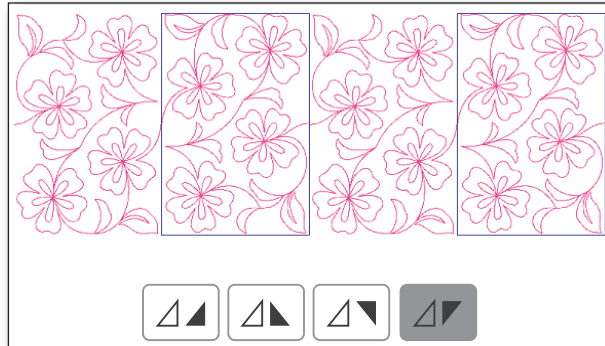
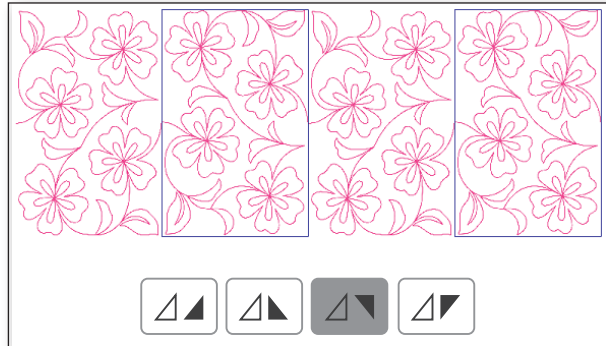
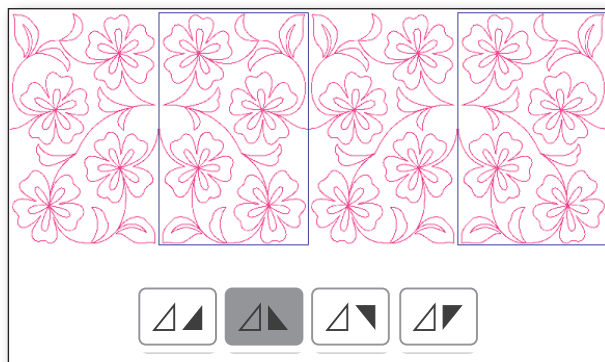
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EDGE-TO-EDGE

The selected pattern can be customized by flipping every other pattern to create new arrangements. The options include all repeats being identical, every other pattern being flipped along the vertical axis, every other pattern being flipped on the horizontal axis, and every other pattern being flipped both on the horizontal and vertical axis. Each combination will produce unique patterns that can be previewed on the selection screen.



GOOD TO KNOW

Quilting and Border pattern collections in the machine can not 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.

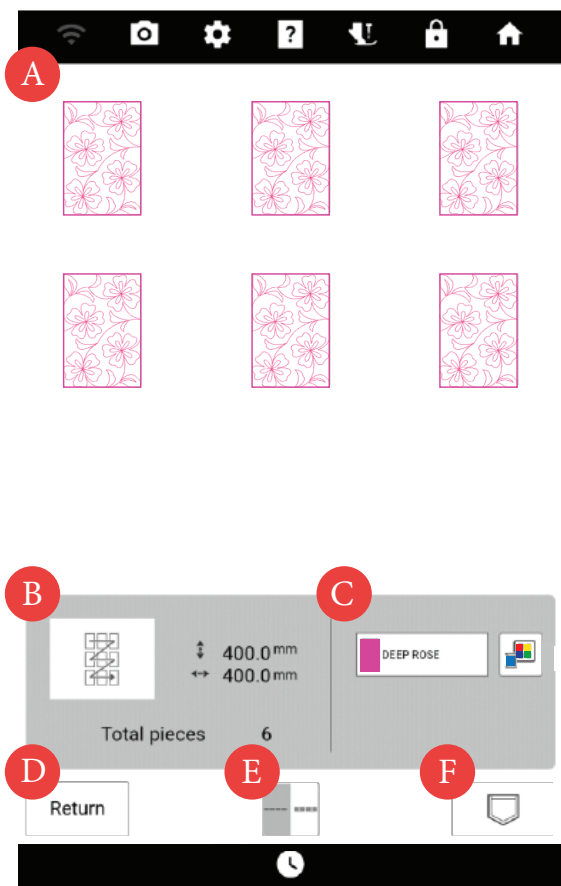








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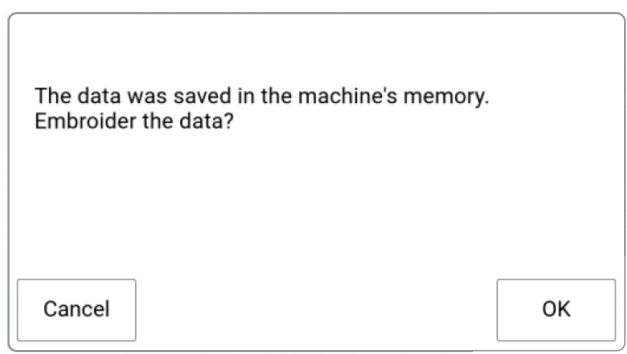


EDGE-TO-EDGE



- A**  Pattern Division Preview
- B**  Pattern Size and Total Section Count
- C**  Thread Colors - Select to Change Color
- D**  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.



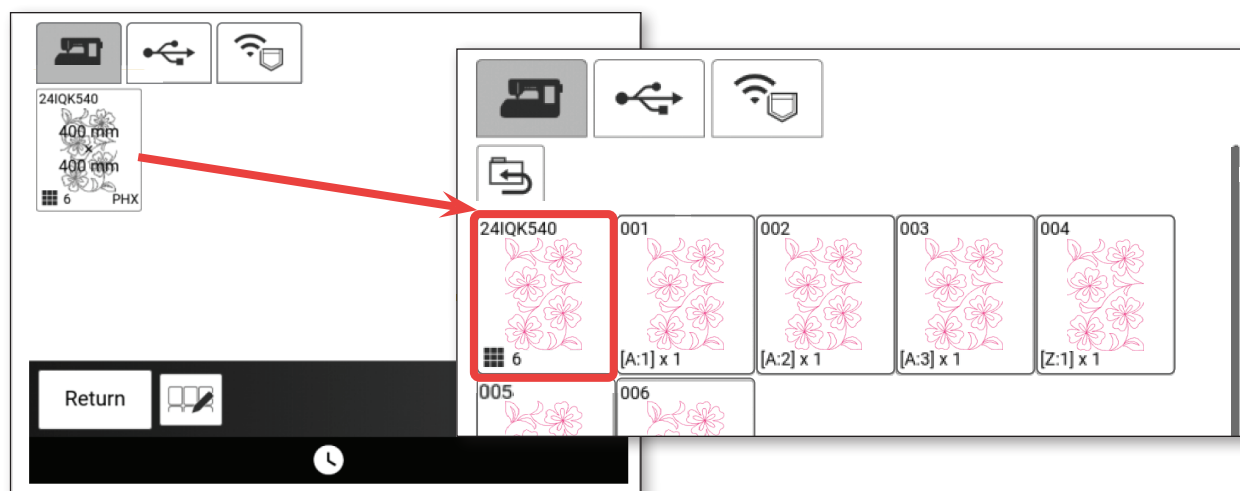
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EDGE-TO-EDGE



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.

A:1	A:2	A:3	A:4	A:5
A:1	A:2	A:3	A:4	A:5
A:1	A:2	A:3	A:4	A:5
A:1	A:2	A:3	A:4	A:5
A:1	A:2	A:3	A:4	A:5
Z:1	Z:2	Z:3	Z:4	Z:5

Edge-to-edge quilting begins in the upper left-hand corner of the quilt and will proceed to the right until the row is complete. Each additional row will begin on the left and proceed right to the end of the row. Like sashing, the individual sections are coded to help understand where each pattern piece is placed.

Key:

- **Row A** - All rows EXCEPT the final/bottom row
- **Row Z** - Final/Bottom row of the edge-to-edge
- **Block Numbers** - 1 will be the first block and the number increases as it moves to the right. Each row is identical with the exception of row Z.

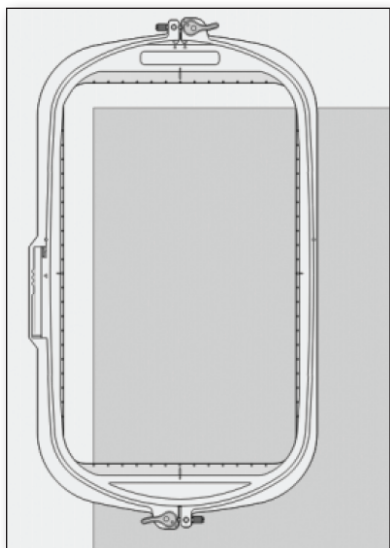
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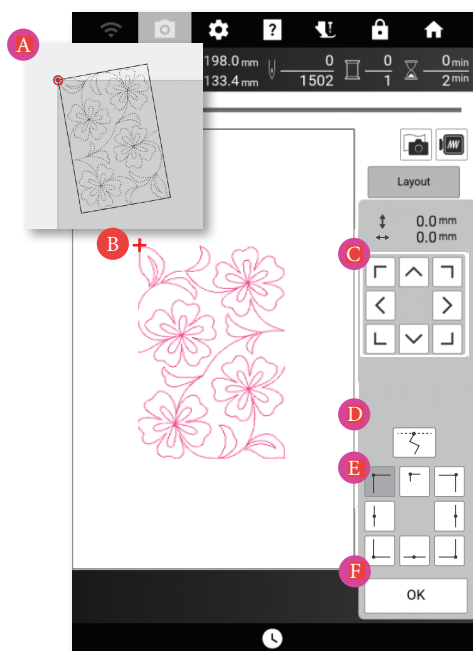







EDGE-TO-EDGE



Edge-to-edge quilting will begin in the upper left corner of the quilt. Using the hoop selected during the previous screens and taking into account the type of edge-to-edge being stitched, hoop the upper-left corner so that the area to be covered by quilting is completely within the embroidery field. If you are doing traditional edge-to-edge, you may find that the quilt top is only caught in two sides of the hoop/frame, with only batting and backing secured in the other two sides of the hoop/frame.

Alignment of each of the edge-to-edge pattern blocks will once again rely on the use of the Move and Rotate keys, just like the quilt border/sashing process. One major difference between the two techniques is that each hooping when doing edge-to-edge will contain only one pattern section, so rehooping the quilt will happen with each pattern piece. As with sashing, the first alignment tool will be the Move feature.



- 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. This 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.

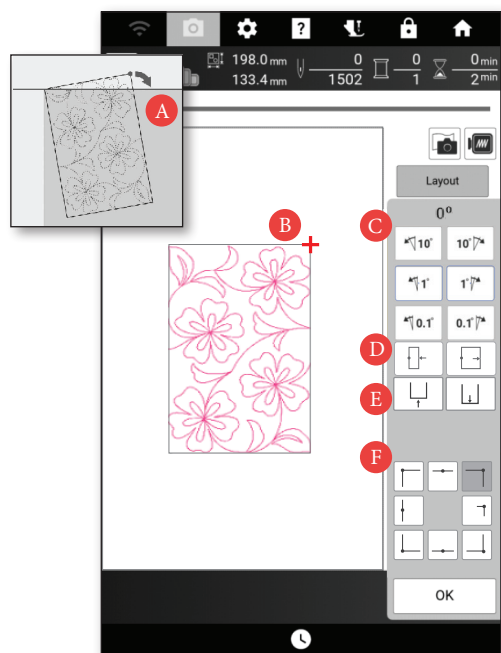
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EDGE-TO-EDGE

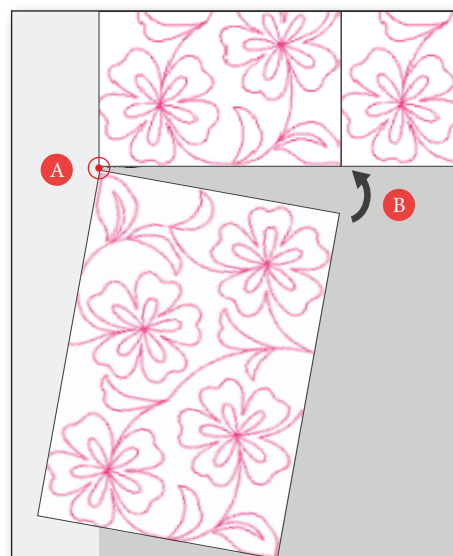


- A**  The alignment point is shown in the guide screen as being the upper-right corner of the pattern with an arrow indicating the point to be rotated to align to desired point.
- B**  The alignment point, which is determined based on the Alignment Position keys, is shown here in red. The rotate keys are used to adjust the placement.
- C**  The Rotate Keys allow for the adjustment of the alignment of the upper edge of the pattern.
- D**  These keys allow the pattern to be increased or decreased horizontally as needed. It is generally used only on pieces in the final column.
- E**  These keys allow the pattern to be lengthened or shortened as needed. It is generally used only on pattern pieces found in Row Z.
- 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.

Just like working with the quilt sashing/borders, the Move and Rotate keys will facilitate the alignment of each section of the edge-to-edge patterns. With each pattern outside of the last row, alignment marks will be stitched along the bottom edge. These small thread marks will be used to align each new row or pattern pieces with the row above. These thread marks are small enough to remain in the quilt without being noticed, but can also be removed once the quilt is complete.

- A** When aligning a new row, the first block will use the Move keys to align the upper-left corner of the pattern piece with the lower-left thread mark of the previous row pattern, shown here as the red target.

- B** Next, the upper-right corner of the new pattern will be moved into place using the Rotate key. This is also a time where the pattern width adjustments to ensure the new row of patterns align with the patterns of the previous row.



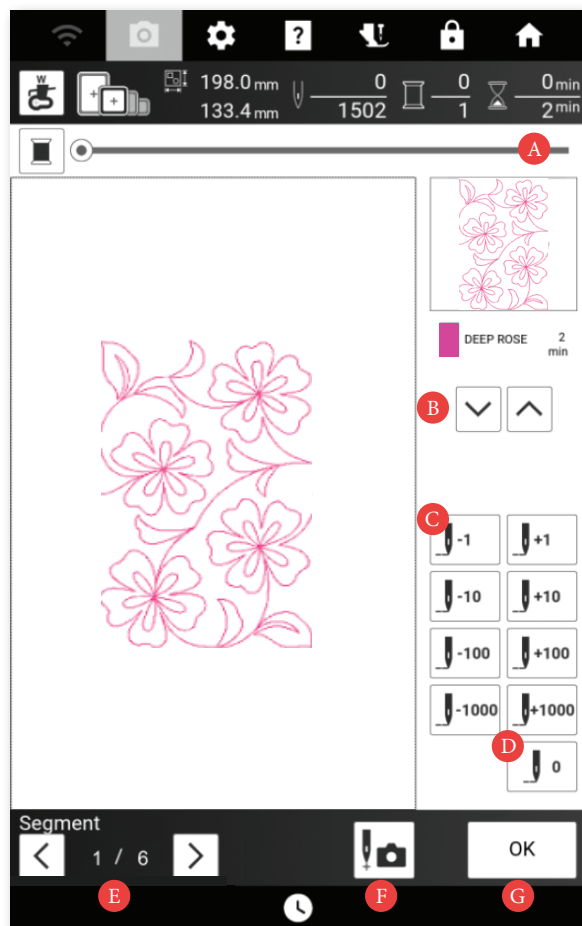
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EDGE-TO-EDGE



- A** Stitch Progress Bar - When in the Needle Advance Screen, moving the indication marker on the progress bar will jump to the corresponding stitch.
- B** Use these keys advance or reverse through individual color steps. When doing single-color sashing/borders and edge-to-edge, there is only one color step per pattern piece.
- C** Needle advance/reverse increments.
- D** Return to the beginning of the pattern (stitch zero)
- E** Advance/reverse through the segments of the full sashing/border or edge-to-edge. The number of segments is determined based on the size of the project.
- F** Needle Camera -the camera can be activated to give a “bird’s eye” view of the needle plate area to allow exact movement as you move through the pattern.
- G** Select OK to exit the Needle Advance/Reverse.

As previously mentioned, Auto-Resume will recall the pattern and stitch information for the quilt sashing/ border and edge-to-edge patterns in the event the machine is turned off or power is interrupted during the process of stitching a design. Additionally, the Needle Advance/Reverse icon can also be used to progress through the stitch count for each pattern piece, as needed. In the event that the pattern stitch out needs to be fully interrupted (perhaps a project needs to be worked on in the midst of doing a large quilt) the various segments of the patterns (both borders and edge-to-edge) can be navigated as well. The user will need to advance through the first three or four screens of the pattern, but then will be offered the opportunity to advance through full segments until they reach the correct pattern section.

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EDGE-TO-EDGE

HERE ARE SOME HELPFUL TIPS AS YOU ARE STITCHING OUT THE EDGE-TO-EDGE DESIGNS:

- Take time and read each of the steps in the automated process.
- Once the quilt area, pattern, and selected frame have been set, the machine will prompt the user to send the data to Memory and then recall it.
- From here, the project can be completed according to on-screen instructions or piece-by-piece.
- When following the on-screen instructions, the first segment has you anchor the upper left corner then match the upper right corner. Subsequent segments in this row have you anchor the first stitch before matching the upper right corner. The last segment has you also check the pattern width.
- To best match points, rotate the handwheel to check the exact needle position. If you find that you are rotating more than 1-2 degrees to match the upper right corner, you should select the move keys to check the position of the pattern.
- The on-screen procedure will stitch across an entire row, stitching positioning marks so that the next row will be spaced with a 0.10 inch gap to prevent any overlapping of rows.
- It is very easy to overlook the prompt on the last row to check for the correct pattern length, especially if several rows have already been stitched. Be sure to use the stretch/skew keys to manage the last row.
- If you accidentally go too quickly and need to go back, you can access the move and rotate features under the LAYOUT menu with Move and Rotate keys.



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Questions & Answers



EDGE-TO-EDGE

WHAT DO I DO IF I CAN'T COMPLETE THE QUILTING 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. Use the +/- key and at the bottom there is an icon that will allow you to advance to a specific section of the Edge-to-Edge quilting. Select the section where you left off and then continue the on-screen steps to pick up where you left off!

CAN PURCHASED DESIGNS I HAVE FROM KIMBERBELL, DESIGNS BY JUJU, AMALIE SCOTT OR OTHERS BE ADDED INTO THE BUILT-IN EDGE-TO-EDGE 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 hooping's, including edge-to-edge designs.

WHAT HOOP SHOULD I USE WHEN QUILTING USING THE E2E FEATURE?

There are many great hoop options when doing Edge to Edge quilting. When setting up your overall quilt pattern, you will be asked to select a specific hoop.

Suggestion of 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 EDGE-TO-EDGE 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 around you 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 while stitching. You can also use quilting clips or other notions that may help you manage all the excess fabric.

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.

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Questions & Answers



EDGE-TO-EDGE

WHAT DO YOU SUGGEST DOING FOR MY FIRST E2E 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. Include one with a border so you can practice that as well. It will be worth it to get comfortable with the process and make any mistakes before you attempt a more sentimental project!

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 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 Edge-to-Edge 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.

SOMETIMES WHEN I GET TO ADD A ROW END PIECE AND MY PATTERN IS TOO SHORT OR EXTENDS BEYOND THE SEAM. 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 in each row. Another suggestion with alignment is to not skip the registration marks step of the process. Mark them with a marking pen if don't like having the stitches to remove. These are important to aligning the rows of quilting.

IS THERE A WAY TO TURN OFF THE TIE-INS/TIE-OUTS FOR THE BEGINNING STITCHES SO I CAN BURY MY THREADS?

There is no way to turn toggle the tie-in/tie-offs that are found in the design; however, the automatic thread cutting feature can be controlled. On the Embroidery Layout Screen, the second icon located at the bottom of the screen, the Cut/Tension Icon, can be selected to disengage the automatic thread cutting function. Turning this function off (it is on by default) will result in the thread remaining intact once a color has finished stitching. The user can then pull the desired length of the upper thread and manually trim the thread. The needle up/down function found on the front of the machine can also be used to pull the bobbin thread to the top of the project. This will allow the user to secure and bury the thread at the end of the project, as desired. For additional information on the thread trimming/cutting functions, refer to page 143 of the Instruction and Reference Guide.

WHEN CHECKING MY ALIGNMENT POINTS AROUND THE QUILT PATTERN 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 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



Questions & Answers



EDGE-TO-EDGE

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.

I WANT TO DO WHOLE CLOTH QUILTING OR QUILT WITHOUT USING THE BORDER. HOW DO I SET THE MEASUREMENTS FOR THIS?

If doing whole cloth quilting, it may be helpful to mark horizontal and vertical registration lines to assist in keeping consistent pattern sizes and connections. This can be done by marking the fabric and/or using tape to keep some reference points for doing an Edge-to-Edge.

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 be enlisted to help fix any missed connections. Scan in your hooped area that needs some connection, draw the lines using the line 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!

