

Radiance 101 – Placement & Apps Project

Sweet Summer Wall hanging

Getting Started

Let's play with ways to place a design by creating this Summer themed wall hanging. The Radiance has so many options when it comes to placing designs. We will show tips on how to create an edge-to-edge look for your future projects. Pattern Connection will also be showcased to help understand how that feature can give you endless embroidery with the Radiance. In addition, we are going to play with IQ Designer turn shapes from an E2E design into an applique.



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Project Introduction

This class project is created using the Radiance and combines all sides of the machine together. This project is designed to showcase all the ways you can place embroidery designs with your placement tools within the Radiance.

Supplies Needed

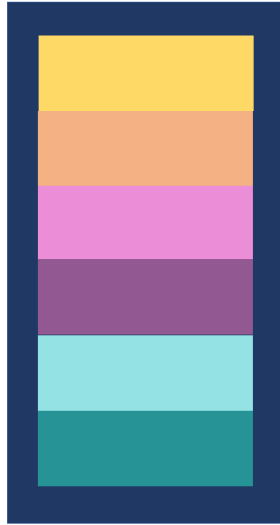
- Baby Lock Radiance
- 10 5/8" X 10 5/8" and 11 5/8" X 18 1/4" Embroidery Hoops
 - Optional Hoops include the Baby Lock Magnetic Hoops and/or DIME Magnetic hoops
- W+ Foot (Embroidery foot)
- J Foot (General Purpose foot) or Optional BLSO-QGF (1/4" Piecing foot)
- Optional BLSA-QBF (Quilt Binding Foot)

Notions

- Embroidery Thread and Bobbins
- Embroidery needles
- Sewing Thread and Bobbins
- BLC204 Baby Lock Ultra Soft Fusible interfacing or Fusible Fleece Batting
- Temporary Adhesive Spray
- Marking Pen
- General sewing supplies

Fabric - For this project, you can use any fabric of choice. For this project, it was kept themed for Summer. Solid and tone on tone prints were used for the center of the wall hanging. This is a great stash buster project as well.

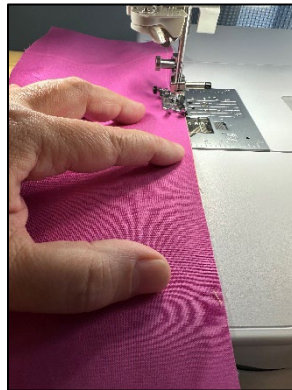
- 6 – 5.5" X 14" strips of bright colored solid or tone-on-tone cotton prints
 - OR one solid piece of 14" X 30.5" fabric for the center.
- 1 – 24" X 45" piece of Ultra Soft Fusible Interfacing or Fleece batting
- 1 – 36" X 42-45 "piece for backing (a yard of fabric was used in the class example)
- 4 – 4" x WOF strips of fabric for borders.
- 3-4 – 2.5' x WOF strips for binding
- 2 -6" squares pressed on the diagonal in half
- 1 – dowel rod for hanging (optional)



Creating Sweet Summer Wall Hanging

Piecing the Center of the Wall Hanging

1. From the Home Screen, select **Sewing**.
2. Under Tab Q of the Utility Stitches, select **stitch Q-01**. Attach your ¼" piecing foot including with the Radiance or optional BLSO-QGF (¼" Piecing foot)
3. Collect your strips of fabric for the center.
4. Select the top two pieces and with right sides together, stitch along the long edge of the fabrics.
5. Repeat for the other remaining 4 strips.
6. Press the seams along the way.



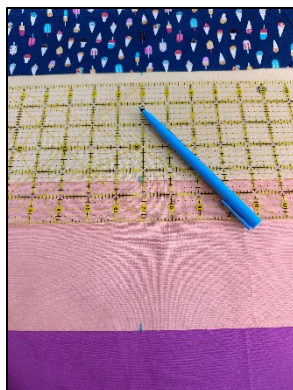
Adding Borders-

1. Align the 4” border strips to the top and bottom of the center panel.
2. Stitch and press.
3. Repeat adding the 4” border strips to the sides. Stitch and press.
4. Layer the wall hanging top with batting and fuse together.
5. Allow for batting as we will be quilting this using embroidery.
6. If desired, you can baste or stitch in the ditch between the wall hanging center and the borders.
7. For this project, we are only going to quilt the top and batting. We will later add the backing so that you don’t see any of the additional embroidery we are adding. If that doesn’t bother you, feel free to layer the backing as well at this point.
8. Prepare the binding strips by sewing together using a mitered seam. Fold and press in half.

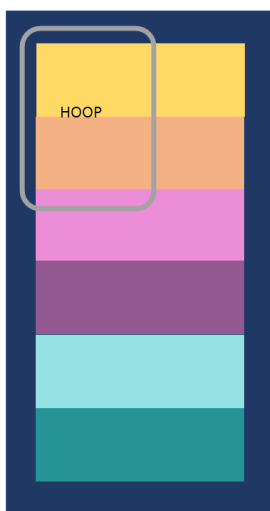


Preparation – Hooping the Fabric for Embroidery

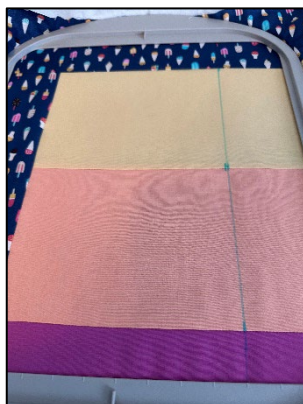
1. Prior to going to embroidery, we need to piece together the wall hanging top. If you would rather quilt using a solid piece of fabric, you can use that instead of the striped fabric. This will just require additional markings on the fabric to help with placement tools.
2. For this project, we are going to use a variety of placement methods to quilt the center of our wall hanging. For this reason, we want to mark the center of our wall hanging and then use the sewn lines between the strips as our guide.
3. Center and press the pieced wall hanging onto the fusible side of the fusible batting.
4. Again, for this project, we are only going to quilt the top and batting. We will later add the backing so that you don’t see any of the additional embroidery we are adding. If that doesn’t bother you, feel free to layer the backing as well at this point.
5. Using a marking pen, find the center of the pieced wall hanging center and mark it all the way through the center.



6. Place the fabric into the hoop so that the left section of the wall hanging is in the embroider able area of 10 5/8" X 10 5/8" hoop.

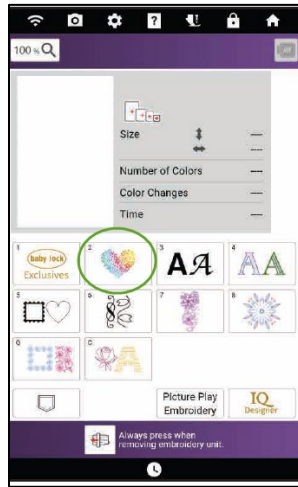


7. Set the hoop aside.
8. Thread the machine with the coordinating embroidery thread and bobbin.

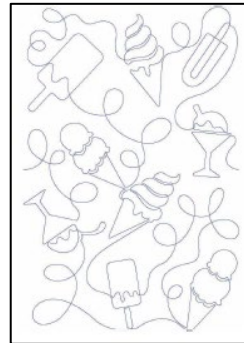


Edge to Edge Design –

1. From the Home Screen, select **Embroidery**.



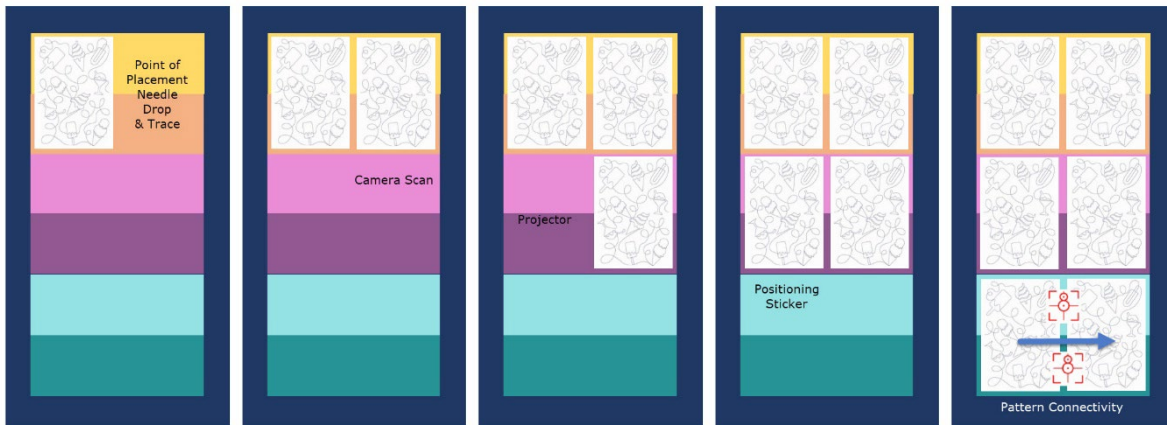
2. **Select Tab 2** with the Common Designs.



3. Under **Quilts**, select the **Ice Cream Quilting Design #2**.
4. Touch **Set**.
5. Touch **Edit** and **Size**. Using **Sizing with Stitch Recalculation**, Resize the design to approximately **9.81" X 6.52"**.
6. Save the resized design to **Memory**.
7. Touch **Embroidery**.



For this wall hanging we are going to use 5 placement methods to create the Edge-to-Edge quilting. Then on the last row, we will use the Pattern Connectivity Method to connect the designs. This will require 6 separate hoopings to create the final quilted pattern.



Placement Method #1 – Point of Placement, Needle Beam and Trace Feature



Please NOTE: Some of the screen images are used for reference only. Sizes and colors may not reflect what is showing on your machine.

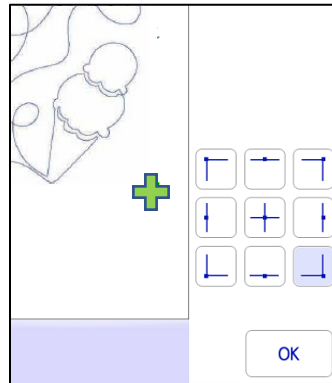
1. Place the hooped fabric into the machine.



2. Select the **Point of Placement Key**.

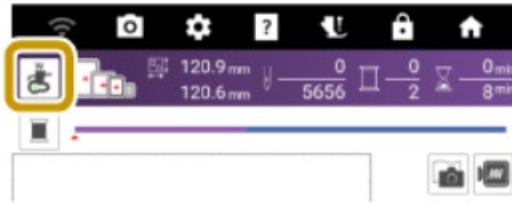


3. From here, select the bottom right corner as your point of reference.
4. Note that the hoop and needle will move to that area of selection box.



5. Under Layout, Use the **Move Keys** to move the needle to the center point of the marked line on your fabric.
6. To verify placement or the need to possibly rotate the design, we can verify the design selection box by using the trace feature and the needle beam.
7. Engage the **Needle drop point** by selecting that key in the top right corner of the screen.

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8.



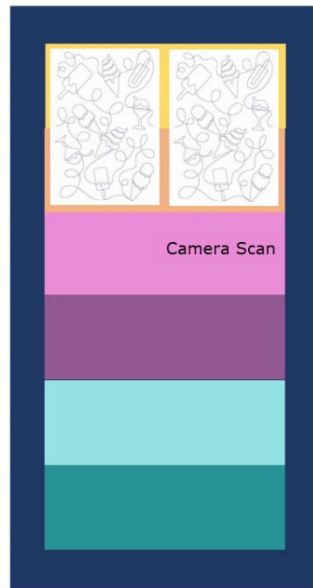
9. Select the **Trace** feature key and then allow the machine to trace the selection box.



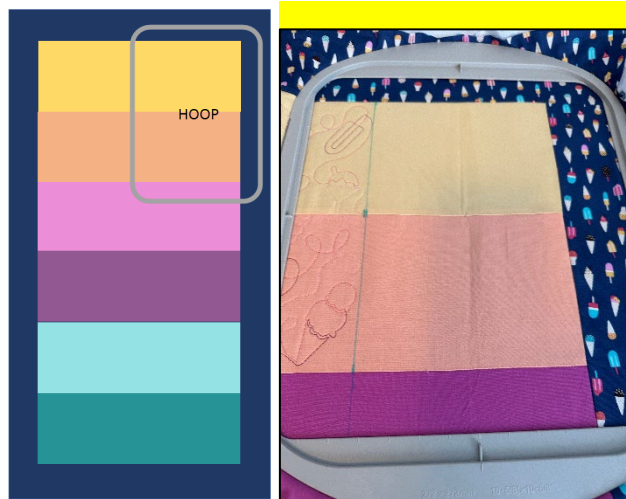
10. If needed, rotate, or move the design based on the trace.
11. Once happy with placement, stitch out the design.
12. Say **OK** when the embroidery is completed.
13. Remove the hoop from the machine.



Placement Method #2 – Camera Scanning.



1. Rehoop the fabric so that the top right section is hooped.
2. Make sure that some of the previously stitched design can be viewed.

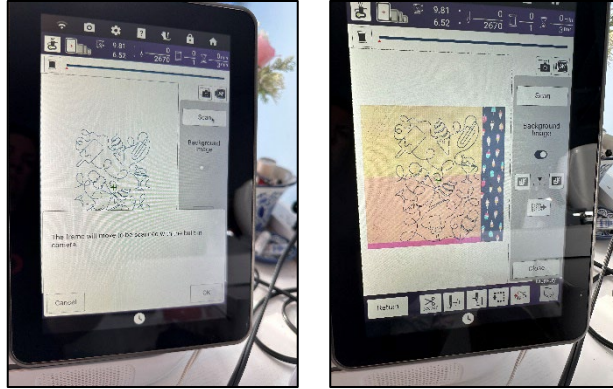


3. We will be using the same design, so no need to do anything with the designs.
4. Re-attach the hoop to the embroidery unit.

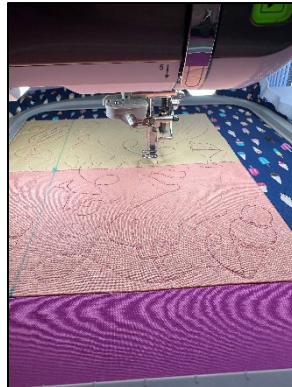


5. Touch the Camera Scan  Embroidery placement.
6. This will prompt you that the machine will move to scan the fabric.
7. At the machine, you now will be able to see the design.

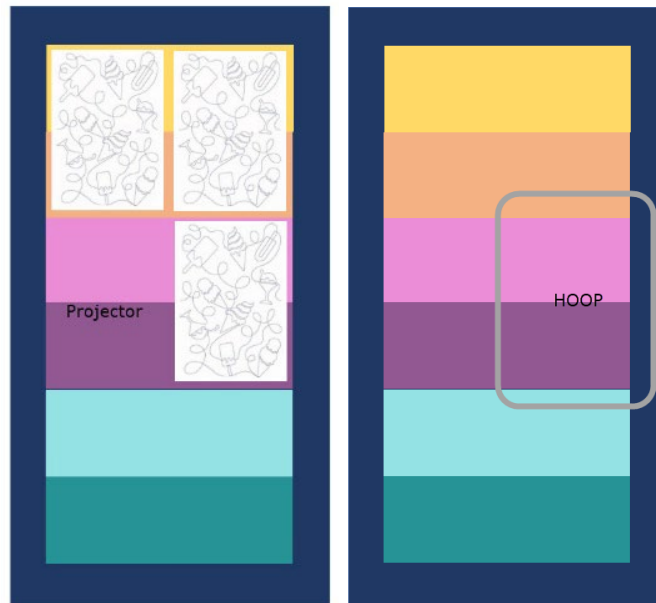
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8. Use the **Move and Rotate keys** to align the center left connection point.
9. Verify the placement by using the **Trace and Needle drop** features if desired.
10. Once happy with placement, stitch out the design.
11. Say **OK** when the embroidery is completed.
12. Remove the hoop from the machine.
13. **NOTE:** At version 1.06 the Image Scan is remaining on the screen even after the design has been stitch. Go to the Settings on Page 9 and Delete the Scan image to clear out the screen.



Placement Method #3 – Projector.



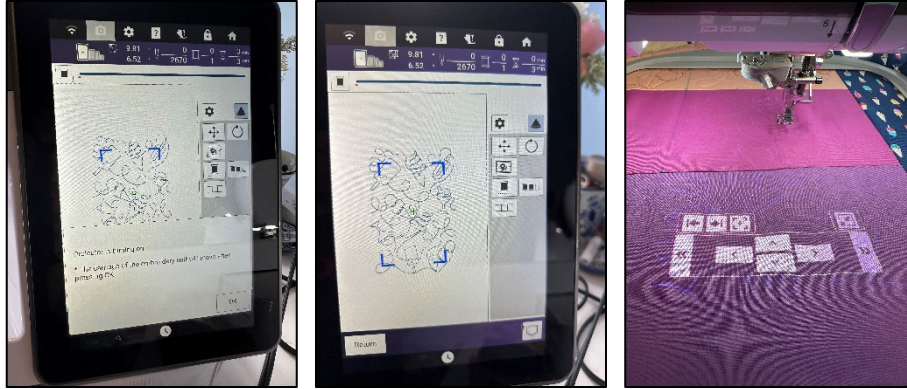
1. Rehoop the fabric so that the right side of the next two center color stripes are hooped.
 - a. Ensure that you can see some of the stitching and the marked center line when hooping.
2. Touch Return to go back to Embroidery Edit.



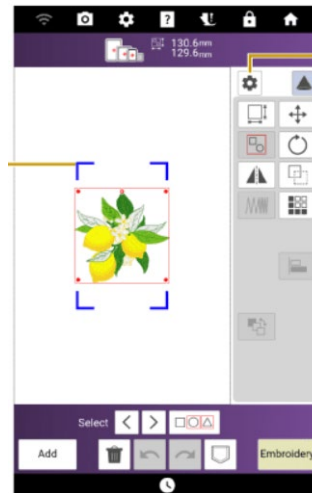
3. Turn on the Projector.
 - a. Note, you can utilize the Projector feature on the Embroidery Edit Screen, Embroidery Settings/Layout Screen and Stitch settings screen of IQ Designer.



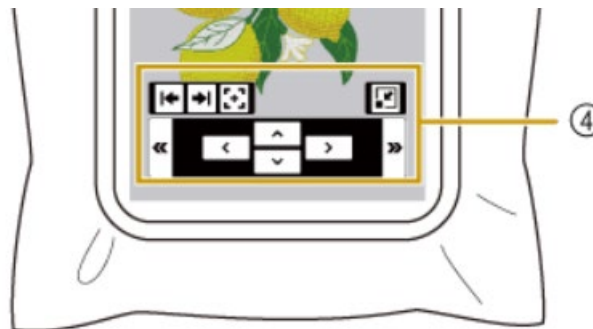
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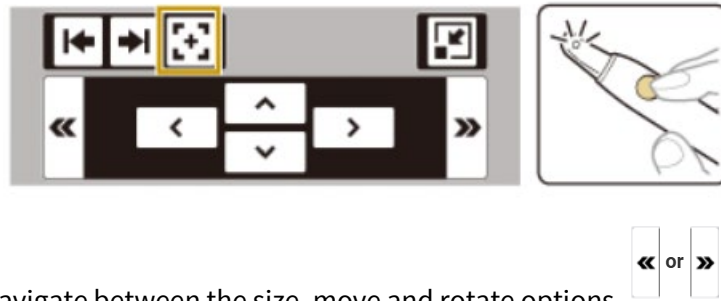
4. You will see the Projector turn on in the hoop area for this project, changing the thread color using the Color Key can improve the view of the projector OR change the color settings on the Projector to one of the 16 color options.
5. Also, the screen will change to reflect the editing tools available for use with the Projector. (image below is just for a sample of the screen – you will not have lemon design on screen)



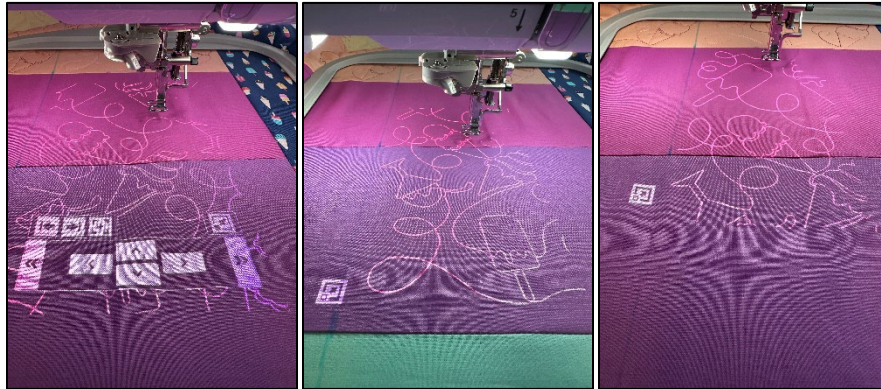
6. You also can use the dual-purpose stylus and make changes on the hooped fabric.



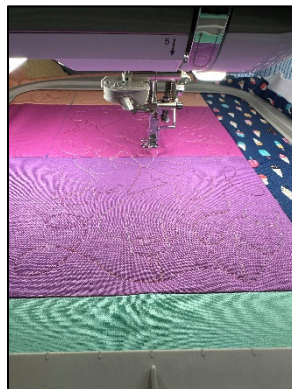
7. Use these tools to Move, Rotate or Resize the Design.
8. To move the Projector View, click on the blue brackets on the screen or the button below with the dual-purpose stylus



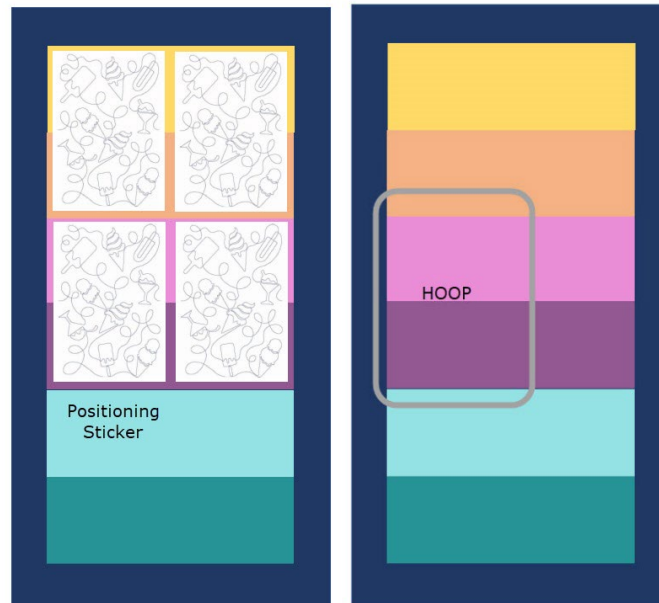
9. Use the arrows to navigate between the size, move and rotate options.



10. Once happy with placement, turn off the Projector and touch Embroidery.
11. If you use the Projector on the Embroidery Setting/Layout screen you will only get the option to view the design for placement.
12. Stitch out the design.
13. Say **OK** when the embroidery is completed.
14. Remove the hoop from the machine.



Placement Method #4 – Camera Placement



1. Rehoop the fabric over the left center of the stipe pieced center.
2. Place a positioning sticker at the center crosshairs marked on the fabric in the bottom right at the marked intersection.

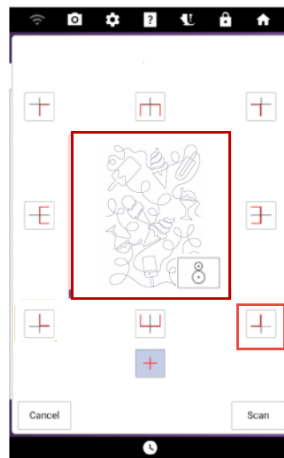


3. Make sure that some of the previously stitched design can be viewed.
4. To use the feature, select **Layout and the Positioning Sticker** Icon.
5. A message will come up that will state it will move and rotate the design. Touch OK.
 - a. Note, if you moved this at all on the Embroidery Editing Screen, that will become the original orientation. You may need to go back and recenter the design on the Embroidery Edit screen.

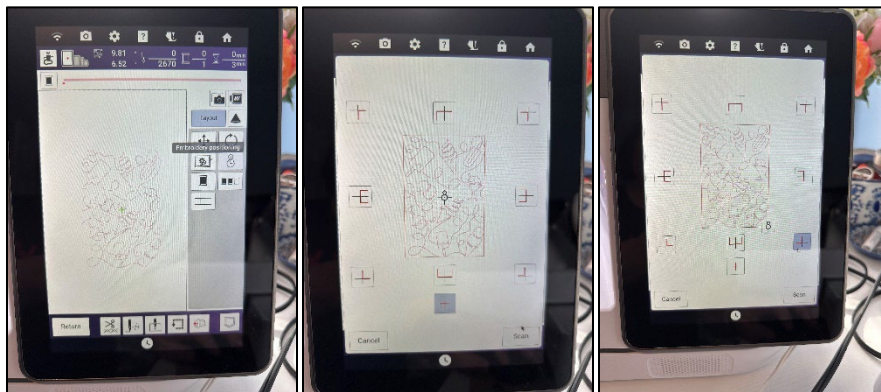
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6. Because of where the sticker was placed you will want to choose the bottom right corner option

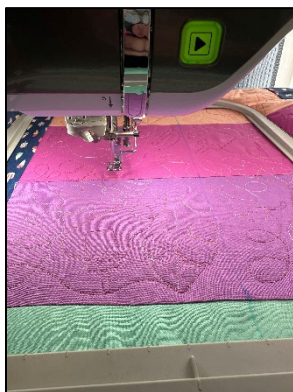


7. Touch **Scan** and allow the machine to place the design.

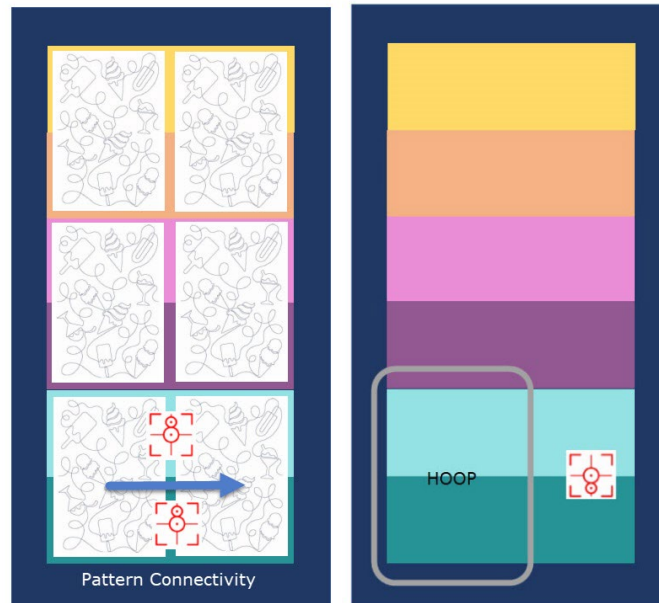


8. Remove sticker when done placing the design
9. Verify the placement by using the **Trace and Needle beam** features if desired.
10. Once happy with placement, stitch out the design.
11. Say **OK** when the embroidery is completed.

12. Remove the hoop from the machine.



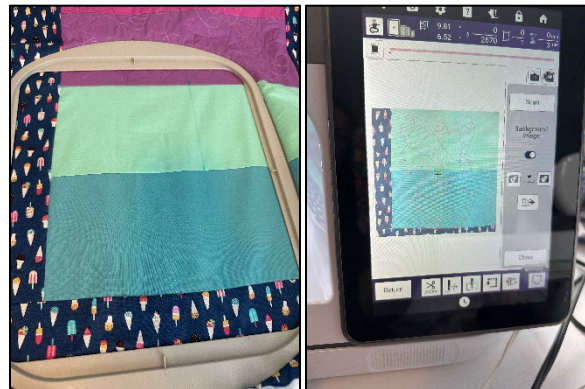
Placement Method #5 – Pattern Connectivity with the Camera



Pattern Connectivity is such a great feature. For this we are going to focus on just connecting two sections of the Edge-to-Edge design together to quilt the bottom third of the wall hanging.

As a reminder, there is a video posted on the Radiance 101 class page that goes over a lot of different ways that you can utilize the Pattern Connectivity feature. The Large Connect Category of design and the Enhanced Quilt Border and Edge to Edge quilting design categories are all based up using Pattern Connectivity.

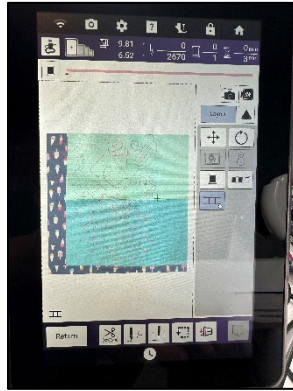
1. Rehoop the fabric so that the bottom left section is hooped.



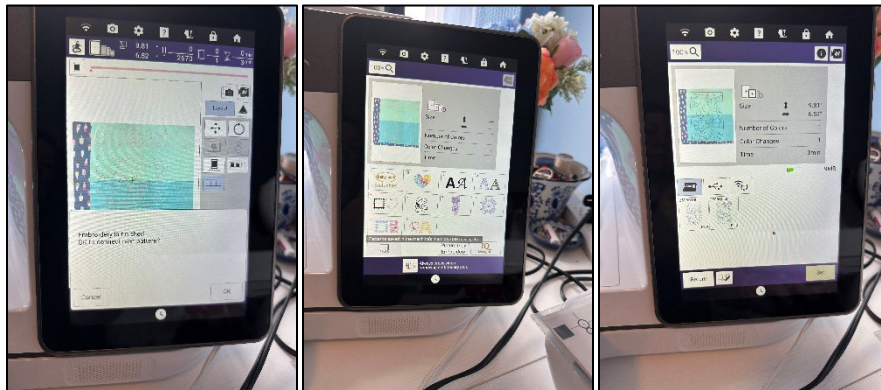
2. With the E2E design on the Embroidery Settings/Layout screen, position the first section by using any of the methods above.

- Once you have that section positioned, turn on **Pattern Connectivity icon** under the Layout

menu. 

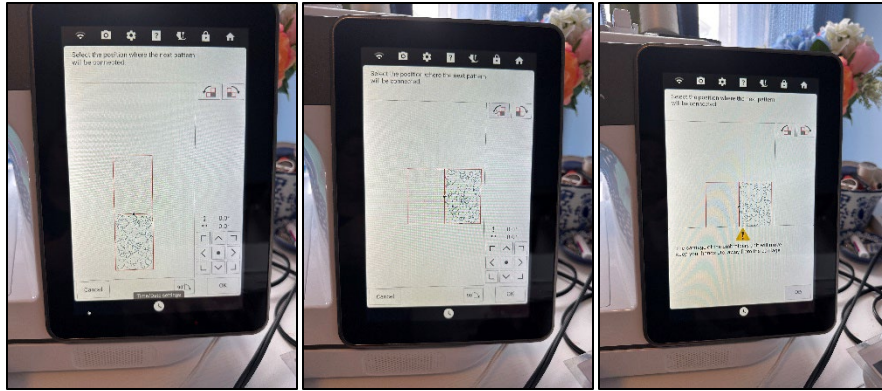


- Lower the foot and stitch out the first pattern.
- After embroidery is completed, the machine will prompt you if it is OK to Connect the next pattern. Say **OK**.
- On the main screen, recall the saved re-sized design. Touch **Set**.

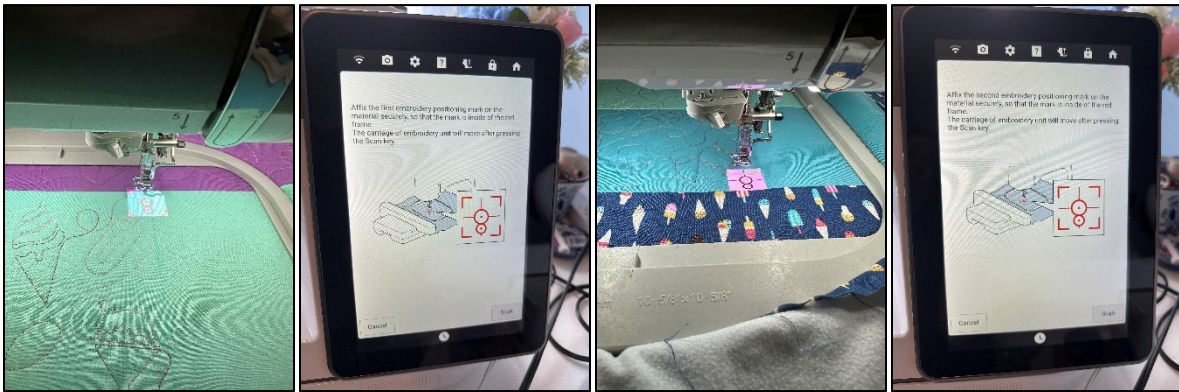


- Touch the Pattern Connect Icon at the bottom right corner of Embroidery Edit Screen.
- Follow the prompts. It is very important that you read message boxes and follow the instructions.

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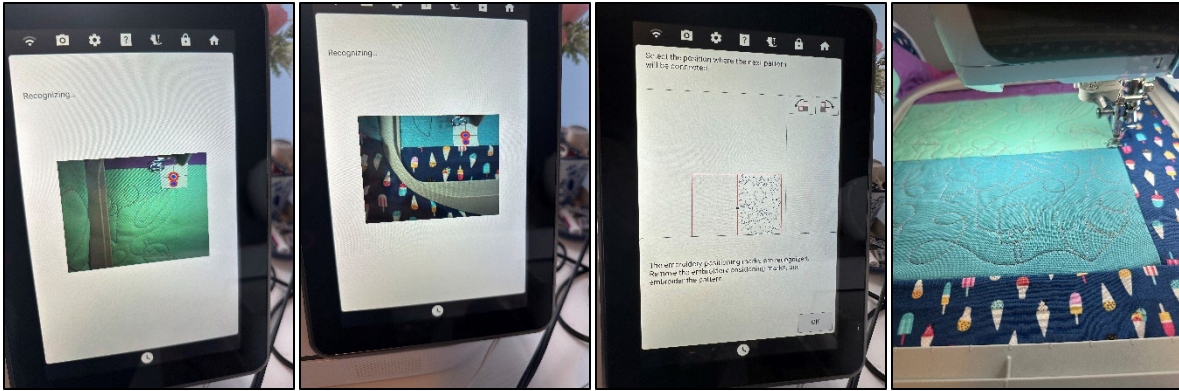
9. Rotate the design to connect where you would like. For this exercise we want to connect it to the right of the existing design. Touch OK.



10. Place the stickers where indicated and scan. Be sure to follow the prompts.
11. Once the machine indicates, rehoop the fabric.



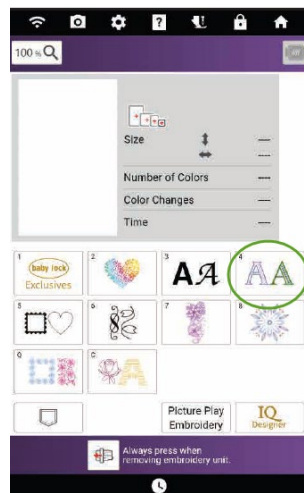
12. Ensuring the positioning stitches are inside the embroidery area, scan the positioning stickers.
13. The machine will look for the stickers. Once recognized, it will place the design.



14. If you get a frowned face, you may need to re-scan or rehoop your fabric.
15. Once you get the approved message, remove the stickers and stitch out your next section.
16. When you turn on Pattern Connectivity, it will continue to want to connect patterns until you Cancel or touch the **Home** screen.
17. Again, this feature is a great way to make endless embroidery and connect larger designs together.

Adding Text -

1. Once completed quilting the wall hanging center, touch the **Home Key**.
2. For this wall hanging, we are going to create the word “Summer” for our banner using the large font category. These will be done in two sections, and we can use Pattern Connectivity or your Camera Scanning to combine these vertically down the front of the wall hanging.
3. Touch **Embroidery**.
4. From the main screen, select the large lettering under **Tab 4**.



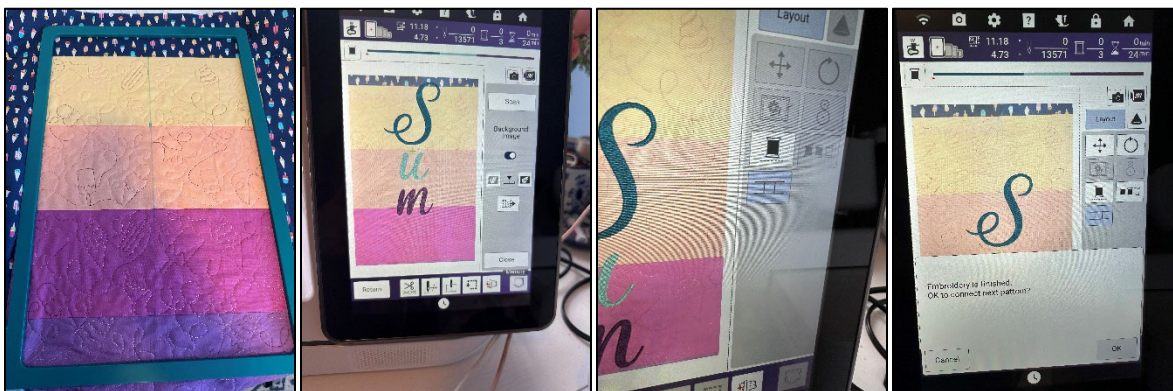


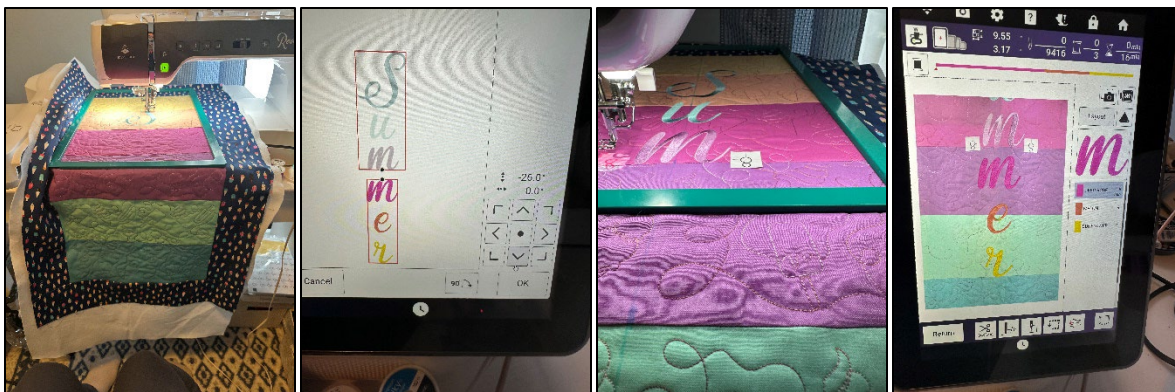
5. Select the **Calligraphy font 09**.
6. With these letters, you will need to bring the letters over one at a time, similar to any of the other built-in designs.
7. Start with selecting the letter “**S**” and touch **Set**.
8. Touch Add and go back to select the “u” and “m”. This will give us the first half of the Summer design.
9. **Move and resize** the other lines to the desired layout.
10. Change the colors if desired to compliment the wall hanging design.
11. **Use the Alignment Key** to select the three letters and center align them.
12. Once happy with the layout, you can use the **Multiple Selection Key** and **Group** the designs together.
13. Save the design to **Memory**.
14. Touch **HOME** and repeat the process for the “mer” portion of the lettering.
15. Again, align these vertically, group and save to Memory.
16. Along the way, make note of the length of these designs. Even though we split it into 2 sections for the word ‘Summer’ they won’t be evenly sized.
17. For this type of placement, you will want to do some sort of math to determine where these will line up, so they appear
18. Mark the center alignment for your letter sections.
19. Hoop the fabric, using the appropriate size hoop.
20. Select the saved “**Sum**” design from **Memory**.
21. Touch **Set**.
22. Touch **Embroidery**.
23. Use placement method of choice to align the letters referencing the center bottom position of the letters to the marked center.
24. Change the reference point using the point of placement key on the Embroidery Layout/Settings screen.



25. Once positioned, touch **Layout** and the **Pattern Connectivity** Icon.
26. If this is greyed out, this means that your design is too large to allow for rehooping and positioning stickers to connect the letters together.
27. Stitch out the “**Sum**” design.
28. Once completed, you will receive a prompt from the machine asking if you would like to connect the next part of the design.
29. **YOU MUST READ THE MACHINE PROMPTS AND ENSURE YOU ARE DOING WHAT THE MACHINE IS ASKING!!!**
30. Follow the prompts by retrieving the saved “**mer**” design from the **memory pocket**.
31. The machine will ask you where you want to connect the next section.

32. If not automatically selected, align the design so that it will connect below the “Sum” letters.
33. To ensure letter spacing, you will want to use the Move keys to align the letter. This will be based on how you spaced your other letters when setting up the design. If needed, turn on the grid in the settings to help with the spacing.
34. Touch **OK**.
35. Next you will be prompted to affix two positioning stickers.
36. Place the stickers as indicated on the projected spots.
37. Once recognized, you will be prompted to re-hoop the fabric.
38. Do not peel off either sticker until the fabric has been re-hooped and the sticker recognized.
39. Once re-hooped, place the hoop back on the machine and scan.
40. After the embroidery positioning stickers have been detected, touch **OK**.
41. If you get a message saying the stickers can’t be detected, ensure they are in the embroider able area of the hoop. If needed, re-hoop the fabric and then scan again.
42. Once you get the smiley face on the message, you can remove the stickers.
43. For this, refer to the class video or page 217 of the Radiance Manual to walk through the steps of connecting designs together.
44. Also on the Radiance 101 Class page, there is a video showcasing all the different ways you can use Pattern Connectivity.
45. The Large Connect Category uses Pattern Connectivity to assist in connecting three designs together to create a larger pattern.
46. Here are some images of the steps done to create the word “Summer” down the center of the Wall hanging. Multiple of the tools were used to place and verify placement.

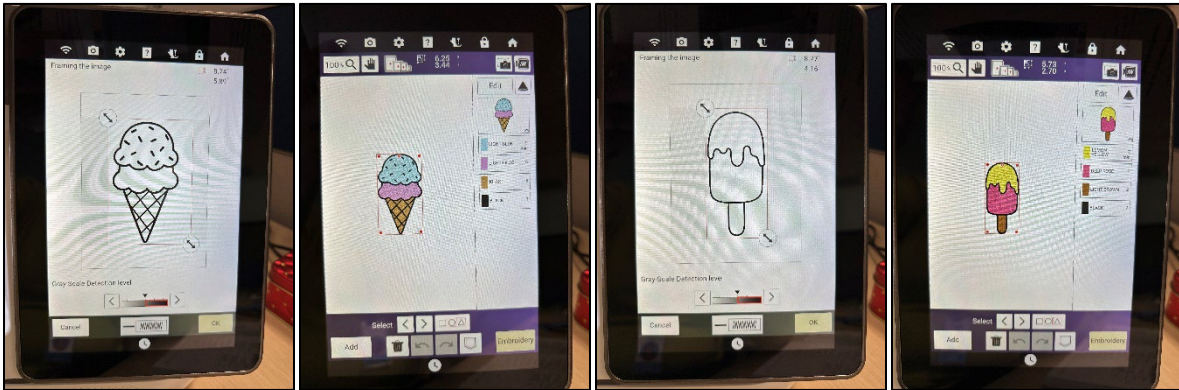




Ice Cream Embroidery Design –

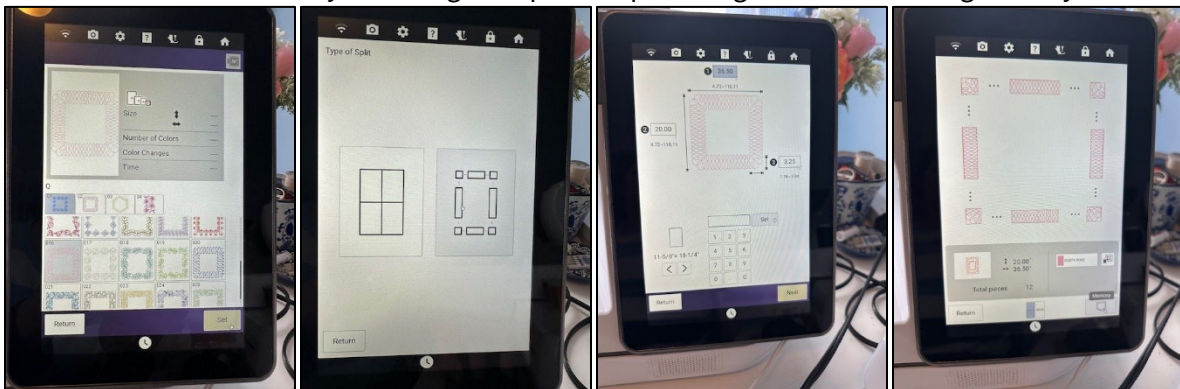
1. Touch the Home Key.
2. From the Home Screen, select **IQ Designer**.
3. The artwork for this project is located on the Radiance 101 class page. Print or download the files from that landing page.
4. Either scan the artwork or send the images over using the IQ™ Positioning App.
5. For this project, we are going to turn the ice cream images into stitch embroidery designs to add to the project.
6. You have a variety of artwork options to choose from for your project. Select one of the images to work on at a time.
7. Use the **Region Fill and the standard fill** to fill in the sections of the ice cream artwork as desired.
8. Using the **Line Properties, select the Satin Stitch (if not already selected)** and apply that to the outside of the ice cream artwork.
9. Save the shape to **Memory**.
10. Touch **Next**.
11. Select the **link key** to link all the region fills together.
12. Adjust the Region Fill properties to **Manual and 60 degrees**. **Turn Under sewing ON**.
13. Select over to the Satin Stitch. Adjust the outline to 3mm or .024” and adjust the Density to 110%.
14. Touch **Preview** to see the design.
15. Save again to **Memory**.
16. **Note:** In class we may show some other options like layering a fill or changing the outline colors of the artwork. Refer the class recording to review how to accomplish those looks if that is what you would like for your project.
17. Follow the prompts out to **Embroidery Edit**.
18. Use the **Color Key** to adjust the colors of the flowers.
19. **Resize** and/or **rotate** the design as needed.
20. Save the Design to **Memory**.

21. Use your favorite placement method to position the design.

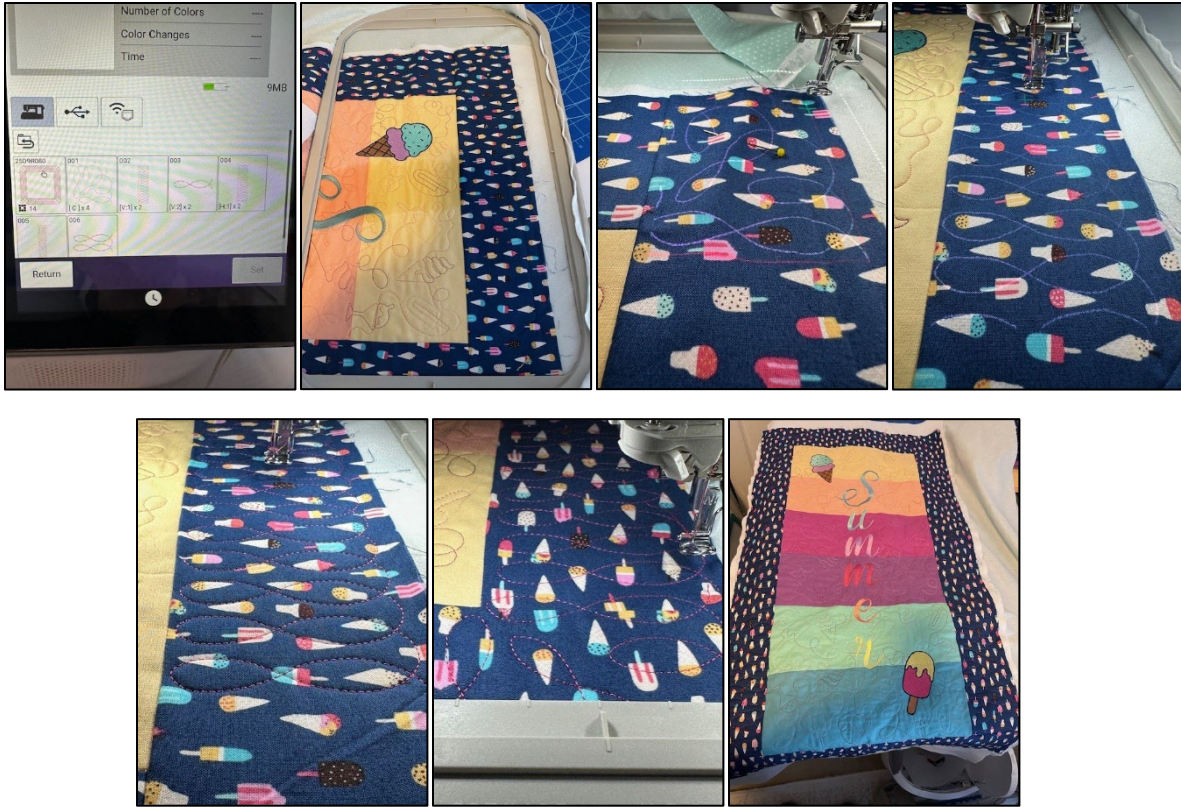


Enhanced Quilt Border -

1. In this class, we will discuss a variety of ways that you finish this quilt, including the **Enhanced Border feature**.
2. The measurements used for this project and the border was 36.50" x 20.00" border width 3.25". This allows wiggle room for the binding. Save this to Memory.
3. NOTE: for the class we started with the top-short end as our height and the longer as our width. This was just to save stitch time in class and show how you can approach and turn a corner faster. For your project you can flip the measurements and start with the long end first and then the shorter bottom/top edges.
4. Once saved you will have the ability to select the automatically connected pattern or individual pieces.
5. The machine will walk you through the process providing instructions along the way.



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6. For this process, refer to the class video to see the steps and tips. If you are looking for more information on how to use the **Edge-to-Edge Quilting** or the **Enhanced Border Feature**, be sure to check out these classes on SEWED Classes. Or if you have purchased the **Mastering Your Solaris Recorded Series**, review the classes in that course as well.

<https://babylock.com/mastering-your-solaris-sorting>

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Adding Binding-

9. From the Home Screen, select **Sewing**.
10. Under Tab Q of the Utility Stitches, select **stitch Q-01**.
11. Once all three layers are quilted together, trim the excess batting.
12. Attached binding using your favorite binding method. NOTE- For this 2 6" squares were added to create corner pockets for the dowel rod.
13. Remove any markings from the fabric, press and hang.

