



# LEARN & CREATE

with Baby Lock

## Project: IQ™ Technology Quilted Table Runner

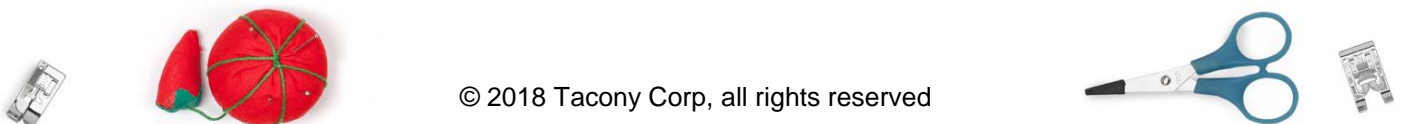
Your Destiny is loaded with state of the art features that instantly elevate your skills without requiring a huge investment of your time. This video will take you step by step through creating this beautifully pieced table runner all the while you are learning how to make the most of the best features of the Destiny. You'll be using the Embroidery Positioning by Camera feature, Edge Sewing by camera, the Guide Beam for creating half square triangles and so much more. If you haven't been using these outstanding features of your Destiny yet, you will soon! This class also applies to the Baby Lock Destiny II.

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### Fabric and Thread Supplies

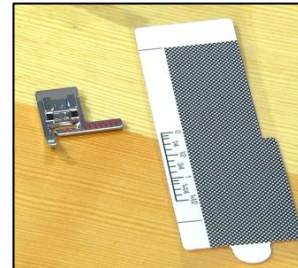
1. 4 fabric squares cut 4 7/8" x 4 7/8" (2 each of 2 different colors) to be used for the half square triangles
2. 1 fabric rectangle cut 4 1/2" x 6 1/2" to be inserted between the half square triangle units
3. 2 Border strips cut 2 1/2" x 15" to be placed between the half square triangle units and the embroidered piece. (these were cut a little longer than needed to make assembly easier)
4. 2 Border strips cut 2 1/2" x 40 1/2" to be stitched to the long edges of the table runner (these were cut a little longer than needed to make assembly easier)
5. Lighter colored fabric cut 14 1/2" x 28 1/2" for the embroidered piece





6. Generously cut batting that will be trimmed to fit when everything is assembled
7. 1 fabric cut 20" X WOF (width of the fabric) to be used as the backing fabric
8. Batting cut 18" x 42
9. Fabric for Binding or purchase binding as desired
10. Light colored thread for piecing
11. Madeira Cotona 50 weight cotton thread for the quilting and embroidery

## Presser Feet and Accessories Used

1. The V foot and the Edge Sewing Sheet allows the Destiny to see where the edge of the fabric is and it will give us a perfect seam allowance without needing a guide or needing to steer the fabric

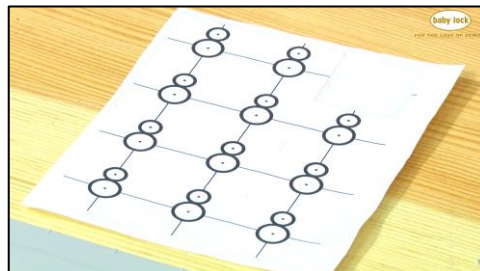


2. The Stylus  that came with the Destiny is useful for the touch screen

3. 9 1/2" x 14" Embroidery Hoop 
4. Destiny screwdriver will be used to tighten the hoop screw



5. Positioning Stickers will be used for Pattern Connectivity

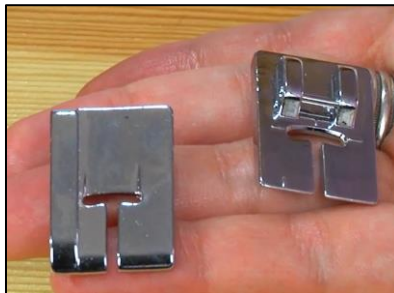


6. Quarter Inch Piecing Foot with Guide will be used for piecing and for sewing down the center of the squares when creating the half square triangles.

- The guide on this foot is exactly  $\frac{1}{4}$  inch from the center needle position which makes it easy to sew a perfect and consistent quarter inch seam
- Sara will use this foot along with the Destiny Guide Beam for fast and accurate piecing of the half square triangles



7. Optional Left and Right Bi-Level Feet are used when stitching the binding



- If you turn the foot over and look at the bottom, you will find that one edge of the foot is a little bit deeper
- The deep edge makes it very easy to sew straight along seams that are uneven
- There are two different versions of this foot
  - One has the deep edge on the right and the other has the deep edge on the left
- There is a hash mark molded into the top of the toe on the foot that shows you exactly where the edge of that deep edge is located.
  - Bi-Level foot-Left – Part# BLSO-BLF – available from your Baby Lock retailer
  - Bi-Level foot Right – Part# BLSO-BRF BLF – available from your Baby Lock retailer

8. USB Flash Drive with the project design loaded



### 9. Embroidery Foot for the Destiny



### 10. Digital Dual feed with the Stitch in the Ditch Foot which will be used in combination with the Guide Beam for perfect stitch in the ditch quilting in the border of the table runner

- The digital dual feed foot is a standard accessory included with the Destiny
- The Stitch in the Ditch foot for the digital dual feed is an optional presser foot
  - Stitch in the Ditch foot – Part# BLDY-SDDF – available from your Baby Lock retailer
- The stitch in the ditch foot allows you to use the belt driven digital dual feed and to have a large guide at the center front of the foot that can be placed in the ditch and make it easy to stitch right in the ditch



### 11. Wonder Clips which will hold the layers of the project together

- Unlike straight pins, Wonder Clips will not poke you while you are sewing.
  - Package of 50 clips – Part# CL3156 – available from your Baby Lock retailer




## Make Half Square Triangle Blocks


1. Two 4 7/8" squares of fabric are placed right sides together with all edges aligned.
  - Use one square of each print for this




2. Normally, you would then be instructed to use a fabric marker to draw a line from corner to corner diagonally across the block and sew  $\frac{1}{4}$ " away from each side of the line
  - There is an easier way on your Destiny

3. Place the  $\frac{1}{4}$ " piecing foot  on the Destiny

4. Touch Sewing  on the Home page of the Destiny

5. Select the Q menu 

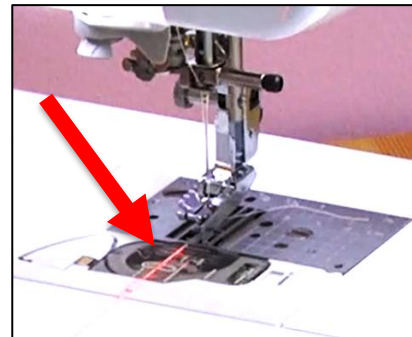
6. Select Stitch Q-01  which is a straight stitch with the needle in the center needle position
  - It is important to use the center needle position with the quarter inch piecing foot
  - If the needle is not in the center needle position, the needle will hit the foot and be broken when you begin to sew!

7. Turn on the Needle Guide Beam 


8. A window opens which shows that the Guide Beam is turned on and is set at its default position in the center



9. The Guide Beam is visible on the bed of the Destiny and is directly in line with the center needle position



10. The Guide Beam needs to be moved so it is  $\frac{1}{4}$ " to the right of the center needle position for our purposes

11. Move the Guide Beam by touching the plus 

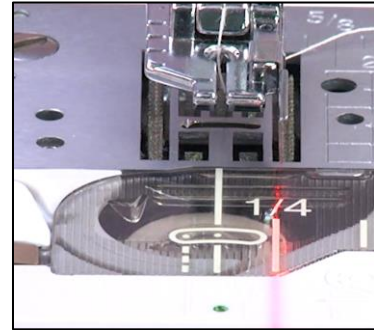


- Move the Beam to the right until it is in line with the guide on the piecing foot
- The Guide Beam on Sara's Destiny is in line with both the guide on the foot and the  $\frac{1}{4}$ " seam guide on the bobbin door



12. Guiding the fabric is different than what you may have done in the past

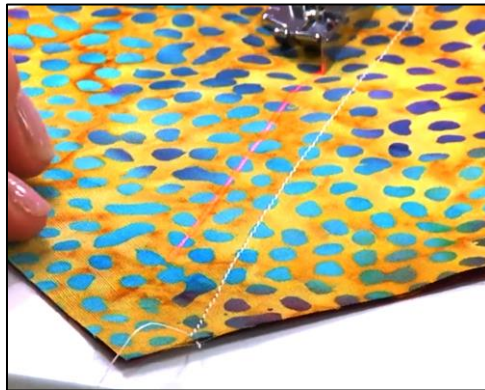
- Place the fabric so the Guide Beam and the guide on the piecing foot are on a line from corner to corner on the fabric
- The needle will stitch  $\frac{1}{4}$  inch to the left of that line



13. Stitch diagonally across the square while keeping the Guide Beam lined up with the points of the square

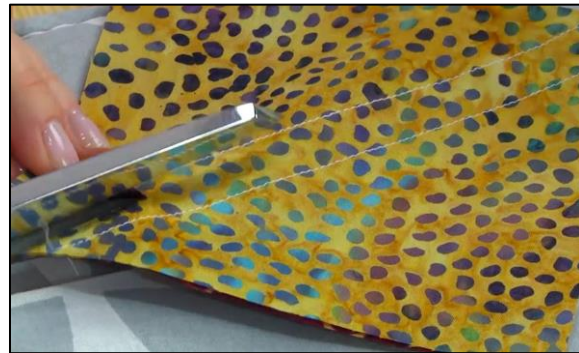
14. After the first seam is stitched, turn the fabric 180° and line up the Guide Beam with the points of the square

15. Sew a second seam down the other side of the center line



16. Cut from corner to corner between the two rows of stitching

- It is your choice whether you cut this with scissors or a rotary cutter and a mat



17. Press the blocks open



18. Repeat with the second pair of squares and you should have four half square triangle blocks



## Bands for Ends of Table Runner

Use the 4 ½" x 6 ½" rectangles to create the bands that go on the top and bottom ends of the table runner

1. Take a moment to lay out the pieces for the bands so you know you have everything turned to the correct angle
2. A half square triangle block will be stitched on each end of the 4 ½" x 6 ½" rectangles



- Try turning the half square triangles to decide where you want each color
  - Once you have decided, just take care to position all four in the same orientation
3. The 2 ½" x 15" band will then be stitched along the top
    - The 2 ½" band looks too short, but the seam allowances on the rectangle and half square triangle blocks will make that section shorter
  4. The Destiny is already set up for a perfect quarter inch seam, so no changes are needed to the machine set-up
    - The Guide Beam is still on, so it will be easy to line up the edge of the fabric and keep a consistent seam
  5. Sew a half square triangle block to each short end of the 4 ½" x 6 ½" rectangle




6. Repeat to create an identical band for the other end of the table runner
7. Press the seams
  - The direction the seams are pressed is not critical on this, but you may find it easier to press them toward the center rectangle
8. Sew the 2 ½" x 15" strip along the top edges of each of the pieced bands



9. Sew the bands on the short ends of the large 14 ½" x 28 ½" light colored fabric



10. For this longer seam you may find it helpful to turn on the Pivot function

by touching 

- When the Pivot function is on, if you pause while sewing a seam the machine stops with the needle down and the foot up, so it is easy to adjust the fabric
- There is no need to lower the foot because it is automatically lowered when you begin to sew again

## Add Borders to the Long Edges of the Runner

Set up for Vertical Stitch Alignment on the Destiny

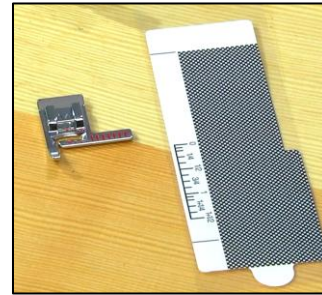
1. When Vertical Stitch Alignment is used, the Destiny uses the built-in camera and sews the seam for you





- It will keep the seam allowance consistent and it does all the work for you
2. You will need the V foot (that is V for Vertical Stitch Alignment) and an Edge Sewing Sheet

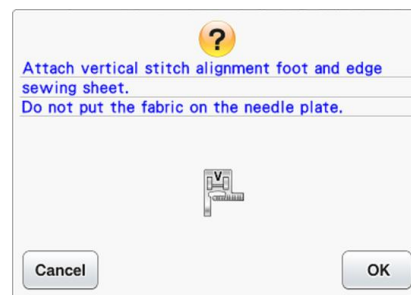
- You will find the Edge Sewing Sheets in the same bag with the Instruction Manual and the Positioning Stickers that came with your Destiny
- The V foot is stored in one of the accessory trays that hold the feet that come with the Destiny



3. Touch Edge Sewing  on the LCD screen

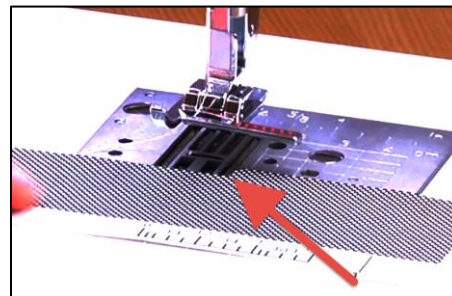
- If the icon is greyed out and cannot be selected, it is because the Destiny is set up in a manner that conflicts with the Edge Sewing function
  - If you have a stitch selected that cannot be used with Edge Stitching
  - If you have the Width Control to ON, on page 1 of your Settings pages
  - if you have the straight stitch needle plate on the machine
  - If Twin Needle is selected
  - If Needle Position - Stitch Placement is turned ON, on page 4 of your Settings pages
  - If the feed dogs have been lowered


4. A box opens on the LCD screen to remind you that the V foot and an Edge Sewing Sheet must be attached to the machine
5. Place the V presser foot on the machine
6. Peel the Edge Sewing Sheet away from the backing

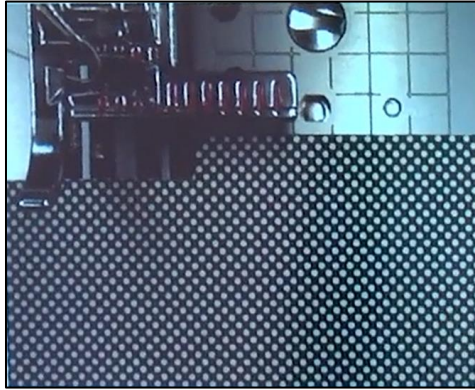


- Set the backing aside where you will be able to find it when you are through, so the Edge Sewing Sheet can be stored with the backing protecting the sticky side of the sheet

7. Stick the Edge Sewing Sheet in place on the bed of the Destiny with the cut-out corner aligned with the front right corner of the feed dog opening in the needle plate



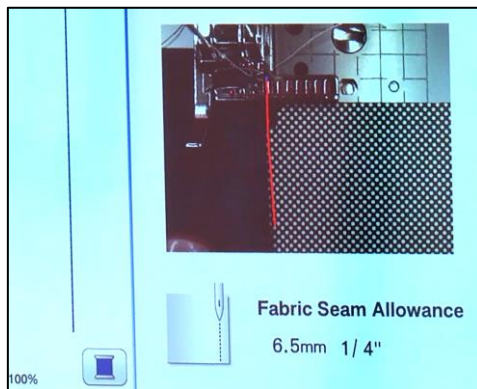
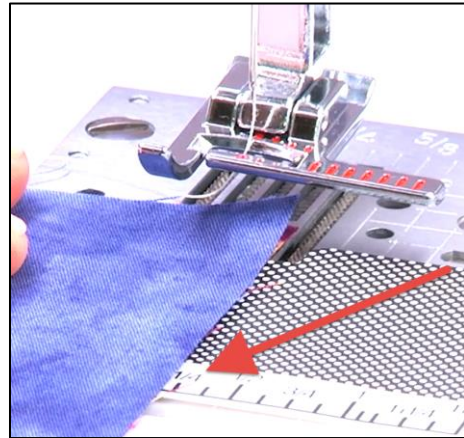
8. Touch  to close the box on the LCD screen
9. A window opens on the LCD screen to show you the view from the camera of the V foot and the Edge Sewing Sheet



- The camera is looking straight down

To sew the border along one long side of the table runner

1. Position the edge of the fabric so it is aligned with the  $\frac{1}{4}$ " seam mark on the Edge Sewing Sheet
2. You will be able to see right on the LCD screen that the camera recognizes the fabric and verifies the seam allowance.



3. The machine is going to do the work for you and if needed the needle position will be moved as the seam is sewn to keep the seam  $\frac{1}{4}$ " wide.
  - And if the fabric gets even farther off, the lateral feed mechanism in your feed dogs will engage to keep the seam straight



4. You may want to unplug the foot control and use the Start/Stop button for this seam
5. As Sara stitched the seam, she kept the fabric right sides together with the raw edges even and the machine kept track of the seam allowance.
  - Sara did stop the machine when she needed a moment to match those raw edges
6. The fabric can feed perfectly and sew a straight seam even when Sara was not touching it!



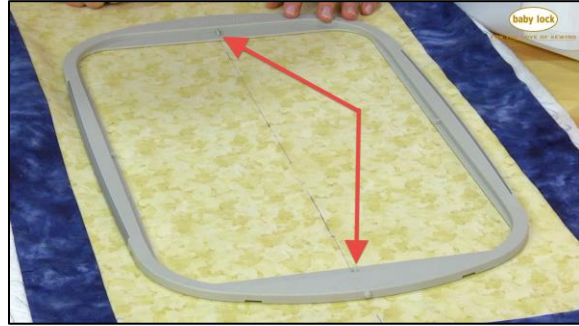
7. Add the second border to the other long side of the table runner and then you will be ready for embroidery

## Prepare the Runner for Embroidery

1. Layer the pieced table runner with batting and backing that are a little bit larger than the front
2. Use a fabric marking pen to mark a line down the center of the light-colored fabric
  - It is always a good idea to test the pen on a scrap of your fabric to be sure that you will be able to remove the marks when you are finished`
3. Sara knew that she would have 24 inches of completed embroidery, so she measured the length of the light-colored fabric and figured out how far from the end the embroidery should start.
  - Take the total length of the light fabric, subtract 24 inches of embroidered fabric and divide the balance by 2.
    - Measure down that distance and mark
  - She placed a mark at the point on the center line where the embroidery should start
4. Hoop the table runner in the 9 ½" x 14" hoop



5. Match the notches at the top and bottom of the inner ring on the embroidery hoop with the center line you marked on the table runner
6. Align the mark for the top of your embroidery with the top notches on the left and right sides of the inner ring on the embroidery hoop



- Those notches indicate the top edge of the embroidery field
  - The space in the embroidery hoop is larger than the embroidery field and the embroidery foot and the needle cannot reach into that extra space at the edges of the hooped area
7. Loosen the screw on the outer ring of the embroidery hoop
    - You will need to loosen the outer ring quite a lot because you are hooping two layers of fabric and a layer of batting



8. There are grips on the sides of the inner ring that are designed to keep the fabric from slipping when it is hooped.
9. Gather the fabric on the sides of the inner ring and hold it against those grips as you move the inner ring and the fabric over the outer ring of the embroidery hoop



10. Press the inner ring into the outer ring so the two are even and the fabric is flat and smooth
11. Fold the fabric out of the way so you can tighten the screw on the outer ring

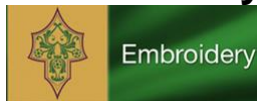


- The screw tilts up to make it easier to tighten
  - Because of the bulk of the fabric, you may want to use the Destiny screwdriver to tighten the screw
12. When the screwdriver is in position 3 with the head of the screwdriver hidden inside the handle, the opening is the perfect size to fit over the




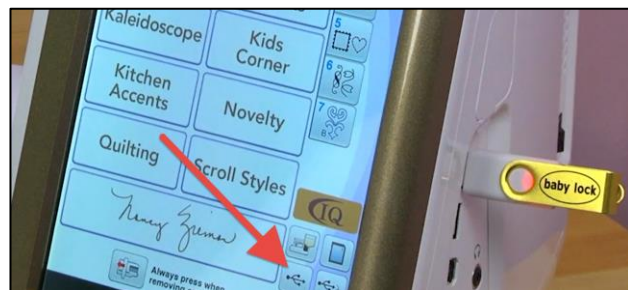
hoop screw and set the blade of the screwdriver in the slot on the screw





## Set up at the Destiny for Embroidery








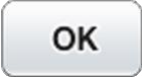

1. Touch to select Embroidery on the Home page of the Destiny
2. Sara's design was on a flash drive inserted in the port on the right side of the machine, so she touched

USB  on the LCD screen





3. The design stored on the USB is displayed on the LCD and Sara touched it to select the design
  - The design used in the video is a running stitch quilting pattern that was created using Art & Stitch software
4. Touch Set  and the Edit screen is opened
  - The feature we will be using is called Pattern Connect and it is found in the Embroidery screen
5. Touch Embroidery 
6. Touch Edit  to open the Edit panel at the right side of the screen
7. Touch Pattern Connect 

The Pattern Connect icon is greyed out on Sara's Destiny because the pattern needs to be resized


1. Touch Return 
2. Touch Edit 
3. Touch Size 
4. Use Proportional Shrink  until the pattern is 12.14 inches long
  - This is as small as the design can be without using the stitch recalculation function 
  - The reason the design had to be reduced in size is that when the Pattern Connect is used, the Destiny will scan the pattern in the hoop and it then needs to have some room to move the pattern around to achieve a position that will match the patterns perfectly
  - The embroidery field is 9 ½" x 14" but to use Pattern Connect, the size of the design needs to be no larger than 8" x 12" to allow the needed "wobble room" that allows the Destiny to match up the designs
5. Touch OK  to leave the Sizing screen
6. Touch Embroidery 



7. Touch Edit  to display the Editing options
8. And now the Pattern Connect icon  is available to be selected


## Sew Design 1 & Connect Design 2

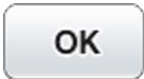
1. Rethread the Destiny with the Cotona cotton thread in both the needle and the bobbin
2. Attach the hoop to the embroidery arm

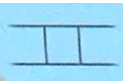
3. Lower the presser foot and touch the Start button  to stitch the design

4. When the design is complete, a box opens to say “Embroidery is finished. OK to connect next pattern?”

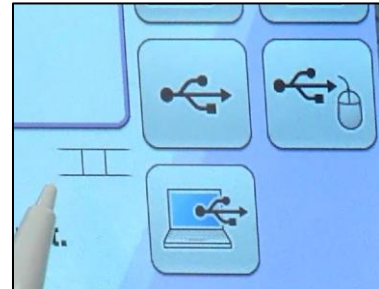


5. Touch OK 
6. A new box opens to say “Do not remove the material from the frame and press OK to select the next pattern”


7. Touch OK 
8. The Embroidery menu is displayed
9. There is a new icon on the Embroidery menu

screen  just to the left of the icons used to retrieve designs from USB media

- The icon is there to tell you that you are in Pattern Connect mode
- When you select a design, the Destiny is going to try to connect it to the design that you just stitched



10. Select the design exactly as you did the first time.

- Sara touched USB  because that is where her design was located

11. Touch Set 
12. Resize the design to the same size used before


13. Touch Edit 



#### 14. Touch Size


15. Use Proportional Shrink until the pattern is 12.14 inches long
  - This is as small as the design can be without using the stitch recalculation function

Note that you could save the design after you resized it the first time and then select the saved copy of the design for the second pattern

1. Now instead of touching Embroidery, touch the Connect icon  in the lower right corner of the LCD screen

The Pattern Connect screen opens to allow you to select how the patterns will be connected.

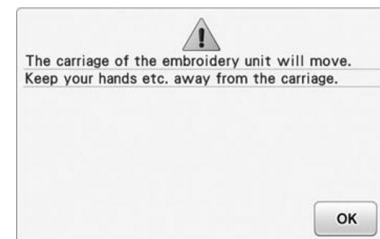
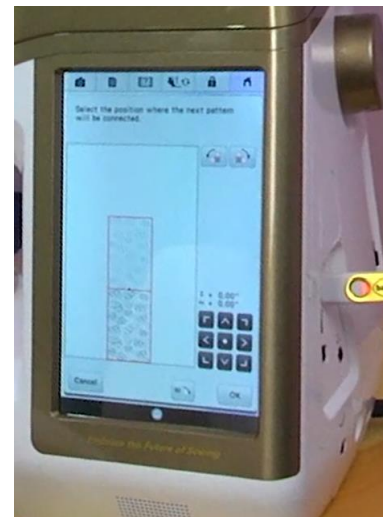
1. The greyed-out pattern is the one that has already been stitched
2. The bold design is the new pattern that will be stitched next
3. There are 16 different choices as to how you can line up your designs

4. The two icons at the upper right  allow you to move the design around the original design to the position you want the second design to occupy
5. Sara left her second design in the default position below the first design


6. Touch OK 

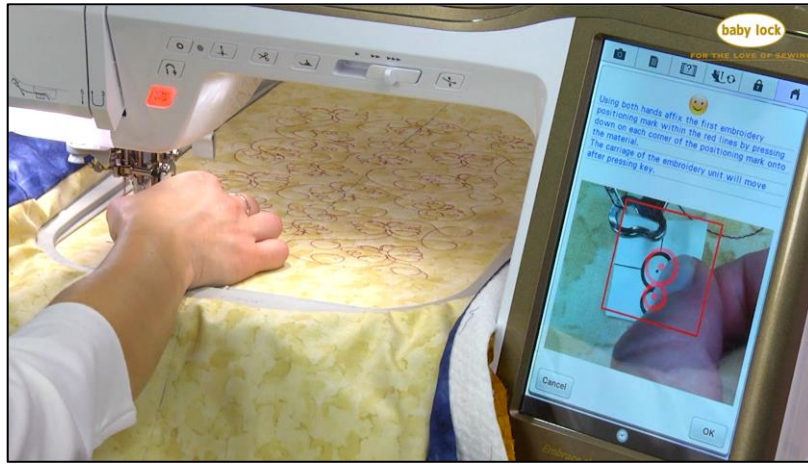
7. A box opens to say, "The carriage of the embroidery unit will move. Keep your hands ect. away from the carriage."


Now you want to simply follow the instructions displayed on the LCD screen





1. Begin by placing a Positioning Sticker  inside the box that is shown on the LCD screen




2. Slide the Positioning Sticker  under the needle while watching the LCD screen to match the sticker to the position shown.


3. Press the Positioning Sticker  down so it is stuck firmly to the fabric

4. Touch OK 

5. The Destiny uses the camera to recognize the position of that first

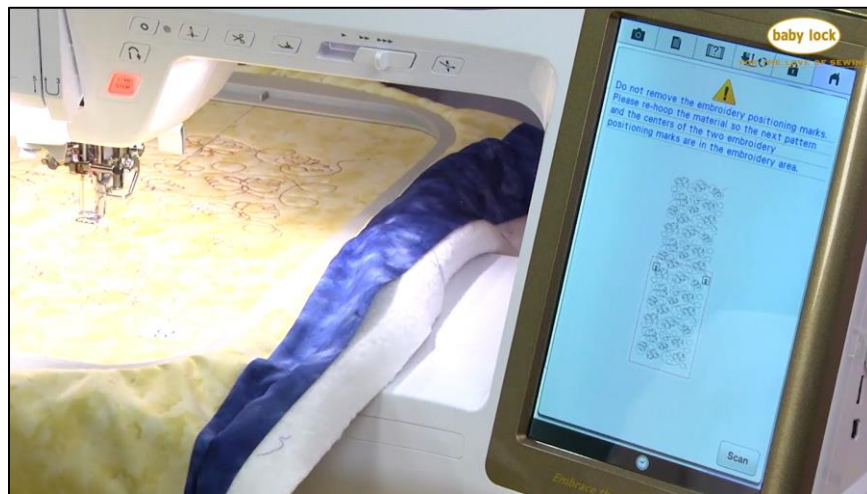
Positioning Sticker  at the lower left corner of the design

6. The carriage then moves to the lower right corner of the pattern
7. The red box is displayed on the LCD screen and you are asked to place a second Positioning

Sticker  on the fabric in the position shown on the LCD screen

8. Touch OK 
9. A new box with instructions is displayed





10. The first instruction here is VERY IMPORTANT! It says, “Do not remove the embroidery positioning marks.”

- You will need to work carefully as you re-hoop the fabric because



those Positioning Sticker must remain where they are

11. This box also tells you, “Please re-hoop the material so the next pattern and the centers of the two embroidery positioning marks are in the embroidery area.”




## Re-hoop the Fabric for Design 2

1. Take the hoop off the machine
2. Loosen the screw on the outer ring of the hoop
3. Remove the outer ring
4. Lay the fabric flat on the table with the inner ring
5. Slide the inner ring down to the unstitched area of the table runner
6. Align the marks at the top and bottom of the ring with the center line on the table runner
7. Position the ring so the embroidery positioning markers are within the embroidery field
8. Lift the bottom edge of the inner ring and slide the outer ring under the fabric so you will not have to move very far to place the fabric into that ring




9. Grip the fabric at the sides as shown earlier in this class
10. Set the inner ring into the outer ring
11. Tighten the screw on the out ring
12. Now that the fabric has been re-hooped, it is time to place the hoop back on the embroidery machine and continue following the directions on the LCD screen.



## Sewing Design 2

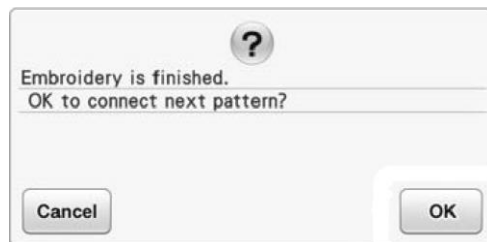
1. After placing the hoop on the Destiny, touch Scan 
2. The camera is activated, and the hoop moves as the Destiny scans the fabric and the Positioning Stickers  in the embroidery hoop.
3. After the Destiny recognizes the Positioning Stickers  a box opens to tell you that the machine is ready to stitch the designs
  - Note: if you did not hoop correctly so that the connected design can be stitched in the embroidery field, then you will see a box that tells you that you need to try re-hooping the fabric and then scan again
4. The box that tells you the machine is ready to stitch the design also tells you that now it is time to remove the Embroidery Positioning Stickers



, so they will not be stitched into your embroidery

5. Touch OK 
6. Lower the presser foot and touch the Start button
7. When the design is complete, a box opens to say "Embroidery is finished. OK to connect next pattern?"

- Touch Cancel  if you are finished connecting
- Touch OK  if you want to connect another pattern

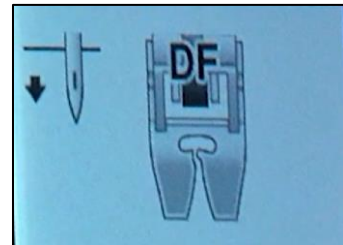



8. Sara's embroidery is complete, so she touched Cancel 



## Digital Dual Feed & Stitch in the Ditch

1. The optional Stitch in the Ditch foot has a large opening at the front of the foot which makes it easy to see exactly where you are stitching
  - Stitch in the Ditch foot – Part# BLDY-SDDF – available from your Baby Lock retailer
2. It also has a guide at the center front of the foot that can be set right in the seam to help you keep the stitching right in the seam line
3. When the Digital Dual Feed is plugged into the Destiny, you will see several changes on the screen of the machine
  - Several of the stitches will be greyed out because those are stitches that cannot be sewn with the Digital Dual Feed
    - Stitches that require sideways motion cannot be sewn because the belt driven Digital Dual Feed feeds the fabric front to back
  - The Digital Dual Feed foot is also shown as the selected foot on stitch preview area of the LCD screen



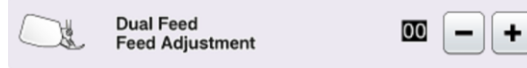
4. Select stitch 1-03  which is a straight stitch in the center needle position
  - Selecting a center needle position aligns the needle perfectly with the guide on the stitch in the ditch foot
5. Sara is going to stitch in the ditch in the seam where the border fabric is sewn to the quilted panel in the center of the table runner
6. Position the guide in the seam and lower the presser foot
7. If you find that one of your fabric layers is moving faster than the other, you can adjust the feeding of the Digital Dual Feed on page 1 of Settings





- Touch the Settings icon at the top of the LCD screen




- The adjustment is at the bottom of page 1 and is called Dual Feed Adjustment



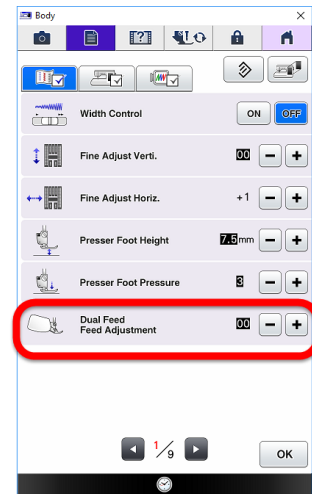
- The Default setting of 00  has a black box behind the numbers
- If you touch the plus sign  to select a higher setting, the top fabric which is fed by the belt on the Dual Feed will feed faster



- If you touch the minus sign  to select a lower setting, the top fabric which is fed by the belt on the Dual Feed will feed

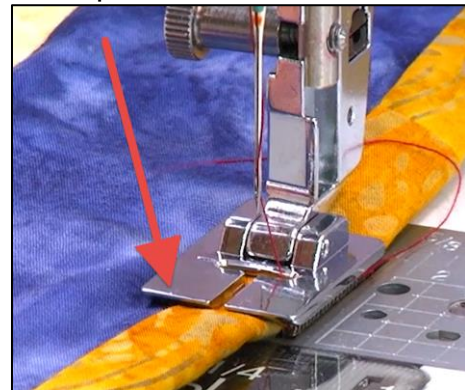





slower



## Binding

1. Sew binding to the back of the table runner and press it to the front
2. Attach the left justified Bi-Level foot to the machine
  - Bi-Level foot-Left – Part# BLSO-BLF – available from your Baby Lock retailer
3. The fabric is thinner on the left side where there is backing, batting and top fabric so that is where the deeper side of the foot is sitting.
4. On the right we have backing, batting, top fabric, and six layers of binding fabric, so that is where the shallower side of the foot is needed.
5. The mark on the left toe of the foot is aligned with the folded edge of the binding.
6. The foot has a 7mm opening, so you are not limited to a straight stitch.
  - You can use any of your favorite 7mm or narrower decorative stitches to attach the binding if desired.



7. Sara used the Serpentine stitch Q-18  for her binding
- To find the Serpentine stitch
    - Select the Quilting tab 
    - Select stitch Q-18 
8. As you stitch the binding, fold the binding over to the stitching line created when you sewed the binding on the back of the runner
9. Or you can fold the binding over before you begin to sew and secure it with Wonder Clips
- Package of 50 clips – Part# CL3156 – available from your Baby Lock retailer
10. The Wonder Clips hold the binding in place and are easy to remove as you come to them

