1. Open QCT5 by double tapping on icon (backing, batting and quilt top with border should be on frame, ready to quilt.)

2. Touch “Select & Sew” when Home screen opens.

3. Set “Safe Area”:
   To set “Top Left,” move machine away from you, to top left corner of backing. Touch within red rectangle at center bottom of screen.

   To set “Bottom Right,” move machine toward you, to bottom right corner of backing. Touch within red rectangle at center bottom of screen.

   This tells QCT5 the area where your machine will be able to safely sew within.

4. The next screen is the “Pattern Placement” screen where you will touch “Select Pattern” in upper left corner.
5. Touch “Border Sets,” then touch “heartcorner.gpf.” Touch “Open.”

6. Touch “Toolbox” in lower left corner of screen, then touch “Marking Tool.”

You will be using the Marking Tool to reflect your quilt top corners and borders on your tablet screen, so that your pattern can be adjusted to stitch where desired.

7. To mark lines on tablet screen to represent the outer border, move your needle along lower left edge of quilt top, with a suggested amount of ½” to the right of your quilt top edge. The ½” includes ¼” for binding plus ¼” distance from finished binding to leftmost stitching (or whatever distance from the binding you want your leftmost stitches to hit).

Under “Points” touch “Add.” The first add will show as a small brown point on screen. Each point added after that will add a line connecting to last added point.

If you need to remove the last point added, touch “Remove Last.”
To remove all the points, touch “Remove All.”

Move your needle up to the top left corner of quilt top, ½” to the right of quilt top side edge and ½” below top of quilt top edge. Touch “Add.”
Move your needle across to the top right corner of quilt top, ½” below top of quilt top edge and ½” to the left of quilt top side edge. Touch “Add.”
Move your needle along lower right edge of quilt top, ½” to the left of quilt top edge. Touch “Add.”

An on-screen keyboard will be displayed.
Touch “2” (or enter other descriptive name preferred) to add a second, separate line of markings. Touch “Enter.”

“2” should now be highlighted in blue, showing it as selected.

To mark lines for the inner border, follow the instructions in previous step, moving the needle over border a suggested amount of ⅛” from inner border seam (or whatever distance from the seam you want your stitches to hit). The border lines drawn on your tablet screen should reflect exactly where you will want your design border and corner patterns to stitch between.
9. To place the pattern, touch “Placements” under the red Toolbox. Touch “All,” then touch “One Point.” Along the bottom of screen, touch “Corner.” This selection places a gray node at the top left corner of your selected pattern.

Note: Once the pattern is placed, the gray node changes to green.

10. Move your needle over top left corner of quilt top, ½” from top and left edges (or whatever measurement was used in Step 7). Touch the gray placement node at top left corner of pattern. The pattern will move to the top left of your on-screen markings and the node will turn green, showing that pattern has been placed. If you see that your needle was not positioned to place the pattern exactly where
you wanted, move your needle and touch the top left node (now green) again.

If your pattern needs to be adjusted to fill the border space defined by the marking lines, as shown in the above diagram, touch the icons under “Size” to adjust the pattern to fit.

Note: When the yellow lock is in the locked position, the pattern increases and decreases the same amount in height and width when touching either the horizontal or vertical icons to increase or decrease pattern size. Touching the lock toggles it between being locked and unlocked.

When an icon is touched to increase the size, the green placement node will change back to gray. Place the pattern again, using the same needle placement from edges. Repeat until ideal size has been reached.

Once the pattern has been adjusted to fill the corner, take a picture or write down the Size measurement.

To undo all size changes, touch “Reset.”
11. Touch “Quilt” in lower right corner to go to the Quilting Interface screen. Note: “Markings” should not be selected, only “Pattern.”

12. Save your design by touching the blue disk in the top left corner, taking note of the file path you are saving it to.

13. Touch “Settings” in top left corner of screen to make desired selections. Touch “OK.”

14. Touch “Trace” if you want to verify where the machine will stitch without actually sewing.

Green dot - shows where stitching will begin
Red dot - shows where stitching will end
If no further adjustment is needed, touch “Pull Bobbin” and once bobbin has been pulled, touch “Sew.”
Optional: When pulling bobbin, leave thread tails to bury in the quilt layers. (This will not be repeated but is suggested for each time bobbin is pulled where the beginning or ending stitches are within the quilt top.)

15. When stitching has completed, touch “Pull Bobbin” and once bobbin has been pulled, touch “Finished! Back to Pattern Placement.”

This returns you to the Pattern Placement screen.

16. Tap twice on the 45° blue arrow to rotate the pattern for the top right corner. If the arrows are not pointing clockwise, touch “Reverse” to change them.

Note: If you are using a directional corner pattern like the ducks, make sure the objects are pointed in the direction needed:
17. Move your needle over top right corner of quilt top, ½” from top and right edges (or whatever measurement was used in Step 7). Touch the placement node at top right corner of pattern. The pattern will move to the top right of your on-screen markings, showing that pattern has been placed.

If the pattern size needs adjusting, following directions in Step 10 to use Size icons. Note: If an adjustment is made to the Size, the pattern will reset to the left and have to be rotated again.


19. After both top corner blocks have been stitched, touch the white “X” in the top left corner of Pattern Placement screen to return to the Home screen.

20. Touch “Pantograph” to begin designing the border to connect the upper left and right corner blocks. Note: Pro version users should have “Basic” selected for “Panto Mode.” “EZ” can also be used – see further instruction in Step 25.

21. Touch the yellow ruler along the top of the screen to measure the width between the patterns stitched in the top corners. The icon with yellow measuring tape and slanted green line should show selected at center bottom of screen. If not, touch it to select. Move needle over where the stitching ended for the top left corner pattern and touch the left side of the large ruler icon at bottom center of screen.
Move needle over where the stitching began for the top right corner pattern and touch the right side of the large ruler icon. Touch “Apply Measurement.”

This returns you to the PantoStacker screen where the width measurement is now reflected in the “Total Width.”

22. The “Total Height” to enter will be the height the design needs to be within the border, which is the distance between the ½” and ⅛” margins used in Steps 7 and 8 (or whatever margin amounts you used).

23. Optional: Touch “Options” at top right of screen and if there is not already a large green check mark under “PantoStacker,” touch the block above “Show Grid” to display one. Touch “OK.” This allows you to see 1” grid lines on your screen.

24. Touch “Select Pattern.” Touch “Border Sets” at top of screen and then touch “heartborder.gpf.” Touch “Open.”
25. The next step is to determine the number of “Patterns” to stitch across the top border, between the corner patterns. Because there is a huge variety of corner and border patterns available, there are no set instructions to follow.

Possible ways include:

- Visualizing. Touch the “+” next to Patterns until the number selected looks pleasing.
- Use the width of a design element in the corner pattern already stitched to gauge what the Pattern Width should be for each pattern across the border. Using the 1” grid lines as a guide, keep touching the “+” next to Patterns until that design element has the approximate measurement as in the corner. It does not have to be exact.
- If a single pattern has a uniform height and width (like that of a square), then as you touch “+” to increase number of Patterns, stop when the Pattern Width is closest to that of the Pattern Height.
- If using EZ Mode in Pro version, after entering Total Width and Total Height, touch “Select Pattern” to open desired pattern. Touch “Stretch” and the number of patterns needed will be autofilled for you.

With this tutorial, since the heart pattern (by default) has a width that is slightly wider than the height and the Total Height is 4.5, increasing the pattern count to 11 gives a Pattern Width of 5.134.
26. Save design.

27. Touch “Place as a Single Pattern” in lower right corner. This will take you to the Quilting Interface screen.

28. Touch the blue triangle pointing down to select “Two Points.” Below that, touch “Stretch.” Note: Unless the markings were deleted in previous Select & Sew screen, they will still show on your screen.

29. Move needle exactly over where stitching ended for top left corner. Touch gray node on left end of design. Move needle exactly over where stitching began for top right corner. Touch gray node on right end of design.
Pattern is now placed and both nodes will show as green.

30. Touch “Quilt,” with only “Pattern” selected to quilt.

31. Touch “Pull Bobbin” and once bobbin has been pulled, touch ”Sew.” When stitching has completed, touch “Pull Bobbin.”

32. Once bobbin has been pulled, touch “Finished! Back to Pattern Placement.” This returns you to the Pattern Placement screen.
To delete all the marking lines, touch the red toolbox then touch “Marking Tool.” Under “Markings,” touch “Remove All.”

Touch the “X” in upper left corner to return to the PantoStacker screen.

33. Quilt inner quilt top as desired and advance to bottom border of quilt top.
34. From Home screen, touch “Select & Sew.”
   Open the corner block file saved in Step 12. This will enter the “w” and “h” Size measurements from Step 10. Following Steps 7 and 8, use the Marking Tool to mark lines for bottom corners and border of quilt top. Touch “Placements” under the red Toolbox and touch “One Point.” Along the bottom of screen, touch “Corner.”

![Diagram of quilt corner with markings]

Tap on the 45° blue arrow to rotate the pattern for the bottom left corner. Move your needle over bottom left corner of quilt top, ½” from side and bottom edges (or whatever measurement was used in Step 7). Touch the gray placement node at bottom left corner of pattern. The pattern will move to the bottom left of your on-screen markings and the node will turn green, showing that pattern has been placed.

![Pattern placed at bottom left corner]

35. Touch “Quilt” in lower right corner to go to the Quilting Interface screen. Note: “Markings” should not be selected, only “Pattern.” Repeat Steps 13-15.

36. Tap on the 45° blue arrow to rotate the pattern for the bottom right corner. Move your needle over bottom right corner of quilt top, ½” from side and bottom edges (or whatever measurement was used in Step 7).
Touch the gray placement node at bottom right corner of pattern. The pattern will move to the bottom right of your on-screen markings and the node will turn green, showing that pattern has been placed.

Repeat Step 35.

37. After both bottom corner blocks have been stitched, touch the “X” in the top left corner of Pattern Placement screen to return to the Home screen.

38. Touch “Pantograph” and open the file saved in Step 26.

Note: Depending on orientation of pattern chosen, you may need to flip the border pattern.
Touch the “Flip” icon in lower right corner of screen, which gives further choices. Touch the blue arrow pointing down until the 2nd choice is selected.

39. Repeat Steps 27 – 32.

40. When the bottom corners and border have completed stitching, remove quilt from rails. Rotate quilt and reattach backing to the leader cloth on take-up rail, trimming excess batting as needed. Top edge of quilt will need to be loaded parallel to rails. Note: Lower edge of quilt can be floated over top front rail, using clamps or magnets on top front rail to hold quilt in place.

Tip: To reload quilt parallel with rails, lay a ruler with several inches width so that a straight line mark lines up on the raw edge (or inner border if straighter) of quilt top
and one of the ruler’s sides is just within the excess of the backing. Use a marker to draw a straight line on the backing cloth (may need to trim some excess batting), the entire length across, so this line can be used to attach to the pin line of the leader cloth. (If backing excess allows, you could also use a rotary cutter to trim the backing equidistant from the quilt top edge, allowing enough fabric to pin to the leader cloth.) Do this for both sides.

41. **RESET THE SAFE AREA!!** Either exit program and reopen or touch red toolbox and arrow down to “Set Safe Area” to manually enter width and height for Safe Area.

42. If the border length on the sides is different from the top and bottom border lengths (i.e. not a square quilt), repeat Step 21 to measure and enter a new Total Width. Repeat Step 25 to determine the number of Patterns needed to stitch between the corner patterns. Make sure pattern is oriented as desired and flip if needed.

43. Repeat Steps 27 – 32 to quilt border between corner blocks.

44. To quilt the last remaining border, either advance the quilt on the rails or remove from rails and reattach, as described in Step 40, insuring that the border be parallel to the rails. Make sure pattern is oriented as desired and flip if needed.
   Note: If quilt is removed from rails and reattached, Safe Area may need to be reset.

45. Repeat Steps 27 - 32.

46. Once bobbin has been pulled, remove quilt from rails!!! Congratulations!!!!