## Alternating Current

Companion Pattern for Studio 180 Design's Split Rects ${ }^{\circledR}$ Tool


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Quilt Designed by Sarah Furrer, Studio 180 Design
Recommended Tools: Split Rects ${ }^{\text {e }}$
Project Size: 63" x 80 $1 / 2$ "

## Fabric Requirements

Based on 40 " of usable fabric.

| Fabric | Yardage |
| :--- | :--- |
| Mediums and Darks | $40-2^{1 / 2}$ strips (1 Jelly Roll" $)$ |
| Background | $31 / 2$ yards |
| Binding | $5 / 8$ yard |
| Backing | 5 yards |

It is recommended that you read through the instructions to familiarize yourself with the steps before you begin, and, of course, that you use your best skills when cutting, sewing, and pressing.

We'll start with a summary of the blocks you will need to create for this quilt.

## Block Summary



## Type \#1

7" finished ( $71 / 2$ " unfinished)
Make 39
Fabrics: Background \& Assorted MediumsDarks


## Type \#2

7 " finished ( $71 / 2$ " unfinished)
Make 40
Fabrics: Background \& Assorted MediumsDarks

## Cutting Instructions

Note: wof stands for width of fabric.

| Fabric | Cut |
| :---: | :---: |
| Background | Cut 10 strips 8 " x wof. With strips wrong sides together, sub-cut into 80 mirror image pairs using steps 5 through 11 in the Split Rects ${ }^{*}$ instruction set. |
|  | Cut 5 strips $71 / 2^{\prime \prime} \times$ wof; sub-cut into 47 rectangles $4^{\prime \prime} \times 71 / 2^{\prime \prime}$. |
| Binding | Cut $2^{1 / 4}{ }^{\prime \prime}$ strips by preferred method and piece to make 300 " of binding. |

Note: Refer to the instructions that came with your Split Rects tool or to the online video at Studio180Design.net for additional information and left handed trimming instructions, if needed.

## Piecing Instructions

Step 1 - Organize your $21 / 2$ " strips into 10 groups of 4 . Label them $1-4$ so you know the position you assigned each strip.
Step 2 - Cut the center two strips (strips 2 and 3 ) down to $211 / 4^{\prime \prime} \mathrm{x}$ wof. Be sure to arrange the strip sets in numeric order 1-4 as shown.

Step 3 - Stitch the strips together to make your strip set. Press the seams open. The strip set should measure 8 " x wof (approximately 42 ").
Step 4 - Fold the strip set in half right or wrong sides together. Make sure the top and bottom


Steps 1-3-Position, Stitch, and Press edges are aligned. Make a vertical cut along the short open edge to clean it up and remove the selvage.
Step 5 - Sub-cut the folded strip set into 8 mirror image pairs. Align the bold Place on Cut Edge of Strip line on the straight edge and the $31 / 2 " x 7$ " Finished Unit line on the bottom of the strip. The $11 / 2 " x 3 "$ Finished Unit line will align on the center seam. Cut along the edge of the tool.
Step 6 - Rotate the tool $180^{\circ}$ and use the Second Trim guidelines to cut the next triangles from the strip. Continue rotating and cutting until you have 8 mirror image pairs from the strip set. Repeat steps 5 and 6 for a total of 80 mirror image pairs.


Steps 5 \& 6 - Position, Cut, Rotate, and Cut Again

Step 7 - Separate background and pieced triangles into like piles. 80 triangles will slant left (Type \#1) and 80 triangles will slant right (Type \#2). You will be stitching together triangles that have the same slant.
Step 8 - Position a background triangle right sides together with a pieced triangle. There will be a small triangle at either end of the raw edge. Stitch along the long diagonal. Press open. Repeat for all pieced units.


Step 7 - Lay out


Step 8 - Stitch and Press

Step 9 - Trim each unit to measure $4 " \times 71 / 2^{\prime \prime}$ using the trim down section of the Split Rects ${ }^{\otimes}$ tool. For the Type \#1 units, the "Common Diagonal seam line" will line up on the seam and the $31 / 2 " x 7^{\prime \prime}$ Finished Unit line will intersect at the center seam of the pieced triangle. For the Type \#2 units, the $31 / 2 " x 7$ " Finished Unit line will line up on the seam and the "Common Diagonal seam line" will intersect at the center seam of the pieced triangle.


## Step 9 - Trim

Step 10 - Stitch the Type \#1 units together to make 39 pairs. Stitch the Type \#2 units together to make 40 pairs. Press all seams open. You will have two Type \#1 units not sewn together that will be used in the corners.


## Step 10 - Stitch and Press

Step 11 - Lay out the pairs and setting pieces according to the diagram on page 5.
Step 12 - Stitch the units together into vertical rows. Press the seams open. Then stitch the rows together. Press the seams open.

Step 13 - Finish with Batting, Backing, Quilting, and Binding! Layer quilt top with batting and backing. Baste and quilt. Bind and Enjoy!
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Alternating Current Layout

