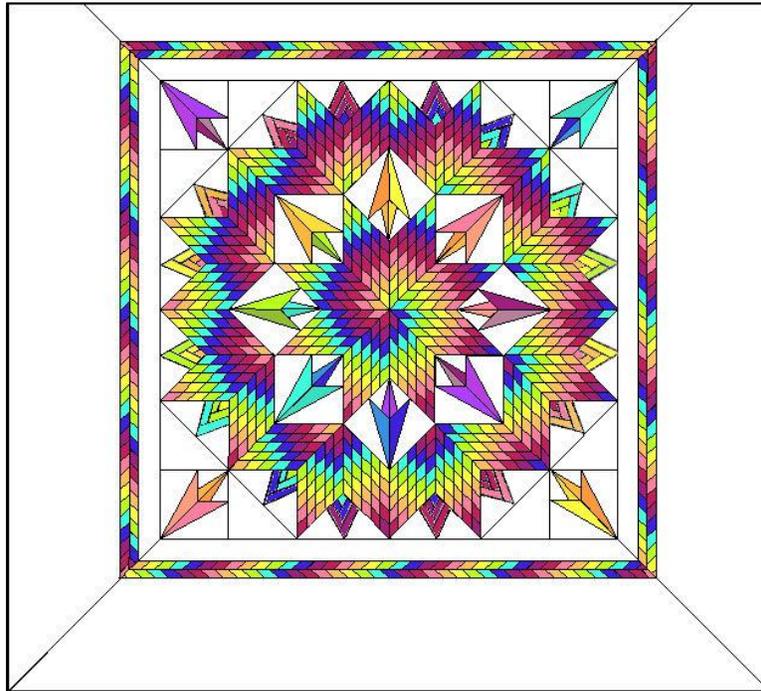


Custom Spiral Broken Star with Diamond Braid Border

Design by Jan P. Krentz

2015 Empty Spools Seminar–Session II – Feb. 27-March 4, 2015



Spiral Broken Star medallion quilt

Approximate sizes: 75" square wall quilt, 91" x 100" Queen, or 108" x 113" King

This custom quilt design can be made in wall, Queen or King size. Jan's quilt features a rainbow palette, with a bold and pastel combination of yardage. Create your design from your own collection of yardage and color combinations.

Allow the selected quilt background to determine the color saturation in the star points and design elements:

- If you plan to use a light background (as in Jan's example), select light-medium fabrics as the "pastel" and medium-to-dark fabrics as the saturated bright colors.
- Selecting darker colors (brown, navy, purple, grey, or similar) – select fabrics that are brighter and lighter for the star components. The darkest values of the star points and foundation piecing should be medium – and all fabrics should range from light to medium for the greatest impact.
- A stunning color strategy recommended for advanced colorists: Change the background values, shading from medium (in the center) to dark at the outer edges. This color palette can be tricky to select the star fabrics and achieve successful contrast when the background values are also changing in medium-to-dark saturation.

Note:

This design features 32 diamonds made of 5 rows x 5 diamonds per row. I call it a "5x5" diamond layout. There are 512 angled intersections. You can also make the diamond units with a 4x4 layout (288 intersections) or a 6x6 layout (800 intersections).

Cutting dimensions for the other two options are not included on this supply list, as all the strips and components are slightly different in size. If you prefer a different layout combination, please write to Jan at least 6 weeks before class for additional cutting help.

Bottom corners of the bed quilts may be trimmed at a 45-degree angle or curved shape after quilting to minimize tripping when the quilt is used on the bed.

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PRE-WASH FABRICS

Pre-washing the fabrics in advance is recommended, particularly the stronger colors. Pre-washing benefits are:

- All the project fabrics will be pre-shrunk, and therefore less prone to random shrinkage during construction when pressing with a hot iron, or when laundering the finished quilt.
- Pre-shrinking is beneficial as the fabrics should remain true-to-size during construction, and sections will not likely shrink unexpectedly when pressed, creating buckling and puckering with the adjacent components.
- During construction, occasionally moisture or steam will be used when pressing seams. Any unwashed fabrics may potentially release dyes during the pressing process, transferring loose dye (“bleeding”) to the surrounding fabrics, and also to the iron’s sole plate.
- Dye migration or “bleeding” is minimized or eliminated when fabrics are pre-washed in small loads, according to their color families (ie: Just as your mother taught you, do not wash darks and lights together!) I recommend the use of “Color Catchers” in the wash load to absorb loose migrating dye from the wash water.

NEW 2015 Spiral Broken Star Wall or Queen Bed Quilt yardage requirements (PDF of this yardage is on Jan’s website)			
<p>The center star medallion measures approx. 60" square without borders; including the spacer and rainbow-colored Diamond Braid border, the measurements are approx. 75" square. A wall-hanging may be 60", 75", or customize the size depending upon borders.</p> <p>A standard Queen bed surface dimension is 60"W x 80" L. Please measure <i>your bed</i> for the surface (top) dimensions, and the drop (two sides and bottom of the bed). Do not cut the outer borders until the center of the quilt is pieced. Consider ideas for design elements you might like on the “drop” sides surrounding the bed. Purchase the fabric before starting the project.</p> <p>Enter the address below when online to link to a printer-friendly PDF for the Spiral Broken Star supply list only. http://www.jankrentz.com/displaypage.php?ID=111</p> <p>WOF = Width of Fabric – approximately 42”– 44”. If your yardage is narrower, or you are using fat quarters, cut extra pieces to have adequate quantity. HST = Half Square Triangle.</p> <p>BRING all excess yardage to class after cutting. Having the fabric in hand permits you to make design changes in class to customize your quilt if desired. Label each of the cut sections to stay organized and minimize confusion.</p>			
Fabric color	Yardage	Cutting	Location in the quilt
1. Light yellow	1/4 - 1/3 yard	From EACH FABRIC, cut the following: 3 – 1 3/4" x WOF strips; sub-cut in half lengthwise. (yield 6 pieces approx. 21-22" long. Label strips for the center star.)	1. Center Star: Strip-sets which will be sub-cut, creating the diamond rows & 8 diamond units in the quilt center. 2. Foundation-pieced sections in the outer triangle setting squares
3. Light peach	1/4 - 1/3 yard		
4. Light pink	1/4 - 1/3 yard		
5. Light lavender	1/4 - 1/3 yard		
6. Light orchid	1/4 - 1/3 yard		

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7. Light blue	¼ - ⅓ yard	2 – 2" x WOF strips; sub-cut into the following lengths: 2-6.5", 2-5.5", 2-4.5", 2-3.5", 2-2.5". (total 10 pieces, 2 of each. Store in a zip-lock bag, labeled for the foundation piecing)	surrounding the central star.
8. Light aqua	¼ - ⅓ yard		
9. Light lime green	¼ - ⅓ yard		

The following yardage is for the 24 diamonds forming a circular pattern around the center star, plus the outer “diamond braid” border. You may design other elements in class to customize your quilt. If planning additional piecing or applique in the outer borders (for a bed quilt), please bring the excess fabric, or supplement the fabric collection with coordinating scraps from previous projects.

Fabric color	Yardage	Cutting	Location in the quilt
1B. yellow	¾ to 1 yard	<p>From EACH FABRIC, cut the following: 5 – 1 ¾" x WOF strips (label these strips for the Secondary Diamond Units)</p> <p>From the remaining fabric, cut several 2" strips on the bias (45-degree angle). Cut adequate strips for approximately 45 linear inches of each color. Label these strips for Diamond Braid Border. Bring the rest of the fabric with you, to cut more in class if necessary.</p>	<p>1. 24 secondary diamond units surrounding central star: Strip-sets will be constructed in class, then sub-cut, creating the diamond rows & 3 each of 8 different diamond color combinations.</p> <p>2. Strip-pieced Diamond Braid border.</p>
2B. peach	¾ to 1 yard		
3B. pink	¾ to 1 yard		
4B. lavender	¾ to 1 yard		
5B. orchid	¾ to 1 yard		
6B. blue	¾ to 1 yard		
7B. aqua	¾ to 1 yard		
8B. lime green	¾ to 1 yard		

Fabric sample	Yardage	Cutting	Location in quilt
Background – both wall and Queen bed quilt	1¼ yd	4 – 6" w x WOF strips 3 – 3" w x WOF strips (cut 1 in half lengthwise). Label: Rocket Block background	Background for 12 Rocket blocks (large & small shape)
		4 – 10" squares, cut 1x diagonally to yield 8 HST. Label: Outer Triangles	Background triangles at outer edges of the central medallion.
		4 – 6" w x WOF strips. Label: Background for foundation-pieced triangles.	Background sides of 16 foundation-pieced triangle units

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Additional Background – Queen sized quilt only Add this yardage to the background above (if making a bed quilt) Borders are cut parallel to the selvage for greatest stability TOTAL BACKGROUND YARDAGE: 1 ¼ + 5 = 6 ¼ yds	5 yards	From 2-yard piece of fabric: 4 – 5" x 72" cut parallel to the selvage. Label: Border 1 strips	Border 1 surrounding central medallion (wall or Q bed quilt)
		From remaining 3-yard piece: OK to cut width only	
		1 – 5" x 88" strip Label: Top Outer Border	Border 3 at top of quilt (omit for wall quilt)
		2 – 12 ½" x 92" strips Label: Side Outer Borders	Border 3 – wide R & L side “drop” borders (omit for wall quilt)
		1 – 12 ½" x 102" strip Label: Bottom Outer Border	Border 3 – wide bottom “drop” border (omit for wall quilt)
Batting – not necessary for class	1 queen size	At least 98" x 106" in size	Filling between top and back
Backing fabric – not necessary for class	2 ¾ – 3 yds extra-wide backing fabric OR 7 yds @ 42" wide	Pre-wash fabric. Use extra wide backing in its entirety OR remove selvages, and seam 2 full widths side by side (approx. 98-100" long + another section to create a backing wide enough)	Backing of quilt.

NEW 2015 Spiral Broken Star King Bed Quilt yardage requirements
(PDF of this yardage is on Jan’s website)

The center star (without borders) measures approximately 72 ½". The surface of a standard King bed is 76"W x 80" L, and a California King measures 72"W x 84" L. Please measure *your bed* for the surface (top) dimensions, and the drop (two sides and bottom of the bed). Do not cut the outer borders until the center of the quilt is pieced. Consider ideas for design elements you might like on the “drop” sides surrounding the bed. Purchase the fabric before starting the project.

Enter the address below when online to link to a printer-friendly PDF for the Spiral Broken Star supply list only.
<http://www.jankrentz.com/displaypage.php?ID=111>

WOF = Width of Fabric – approximately 42"– 44". If your yardage is narrower, or you are using fat quarters, cut extra pieces to have adequate quantity.

BRING all excess yardage to class after cutting. Having the fabric in hand permits you to make design changes in class to customize your quilt if desired.

Label each of the cut sections to stay organized and minimize confusion.

Fabric color	Yardage	Cutting	Location in the quilt
1. Light yellow	1/3–1/2 yard	From EACH FABRIC, cut the following:	1. Center Star: Strip-sets which will be sub-cut, creating the diamond
2. Light peach	1/3–1/2 yard		

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3. Light pink	1/3–1/2 yard	3 – 2" x WOF strips; sub-cut in half lengthwise. (yield 6 pieces approx. 21-22" long. Label: Strips for the Center star.) 2 – 2"w x WOF strips; sub-cut into the following lengths: 2–8", 2–6 1/2", 2–6", 2–5", 2–4". (total 10 pieces, 2 of each. Store in a zip-lock bag, labeled for the foundation piecing)	rows & 8 diamond units in the quilt center. 2. Foundation-pieced sections in the outer triangle setting squares surrounding the central star.
4. Light lavender	1/3–1/2 yard		
5. Light orchid	1/3–1/2 yard		
6. Light blue	1/3–1/2 yard		
7. Light aqua	1/3–1/2 yard		
8. Light lime green	1/3–1/2 yard		

The following yardage is for the 24 diamonds surrounding the center star, plus the outer “diamond braid” border. You may design other elements in class to customize your quilt. If planning additional piecing or applique in the outer borders (for a bed quilt), please bring the excess fabric, or supplement the fabric collection with coordinating scraps from previous projects.

Fabric color	Yardage	Cutting	Location in the quilt
1B. yellow	3/4 to 1 yard	From EACH FABRIC, cut the following: 5 – 2"w x WOF strips (label these strips for the Secondary Diamond Units) From the remaining fabric, cut several 2"w strips on the bias (45-degree angle). Cut adequate strips for approximately 45 linear inches of each color. Label these strips for Diamond Braid Border. Bring the rest of the fabric with you, to cut more in class if necessary.	1. 24 secondary diamond units surrounding central star: Strip-sets will be constructed in class, then sub-cut, creating the diamond rows & 3 each of 8 different diamond color combinations. 2. Strip-pieced Diamond Braid border.
2B. peach	3/4 to 1 yard		
3B. pink	3/4 to 1 yard		
4B. lavender	3/4 to 1 yard		
5B. orchid	3/4 to 1 yard		
6B. blue	3/4 to 1 yard		
7B. aqua	3/4 to 1 yard		
8B. lime green	3/4 to 1 yard		

Fabric sample	Yardage	Cutting	Location in quilt
Background – King bed quilt	2 3/4 yds	4 – 7 1/2"w x WOF strips 4 – 4"w x WOF. Label: Rocket Block background	Background for 12 Rocket blocks (large & small shape) to be cut in class. Yield: 24 mirror image sets of each shape
Borders are cut parallel to the selvage for greatest stability		4 – 11 1/2" squares, cut 1x diagonally to yield 8 HST. Label: Outer Triangles	Background triangles at outer edges of the central medallion.

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Borders are estimated, and can be adjusted to suit your mattress depth, height of bed frame, and pattern design on the “drop” sides of the quilt TOTAL BACKGROUND: $2 \frac{3}{4} + 5 \frac{3}{4} = 8 \frac{1}{2}$ yards		6 – 6 ½”w x WOF strips. Label: Background for foundation pieced triangles.	Background sides of 16 foundation-pieced triangle units (6 pcs per strip) To be sub-cut in class
	5 ¾ yards	From the 2-yard piece of fabric: 4 – 5”w x 84”l strips cut parallel to the selvage. Label: Border 1 strips	Border 1 surrounding central medallion (wall or Q bed quilt)
		From remaining yardage: OK to cut strip widths only	
		1 – 5”w x 94”l strip Label: Top Outer Border strip	Border 3 at top of quilt; custom-cut length after quilt measurements are taken (omit for wall quilt)
		2 – 12 ½”w x 108”l strips Label: Side Outer Border strips	Border 3 – wide R & L side “drop” borders; Custom-cut length after measurements taken (omit for wall quilt)
	1 – 12 ½”w x 115”l strip Label: Bottom Outer Border strip	Border 3 – wide bottom “drop” border (omit for wall quilt)	
King-sized batting Unnecessary for class.	At least 108” x 115” or larger	A quilt of this size is typically machine-quilted; consider your options before the final quilting – hand or machine.	Filling between top and backing fabrics.
Backing fabric Purchase after the quilt top is finished. Unnecessary for class.	3 ½ yds x 115” wide OR 9 ¾ yards @ 42”w	Pre-wash backing. Use extra-wide backing in 1 piece or Seam 3 widths (remove selvages) side-by-side x 116” long	Back of quilt

Next page:

General class supplies and equipment

Add to your notebook:

Go to the following pages online: print the pages and 3-hole punch them; keep the information in your notebook for reference, should you prefer a quilt of unique dimensions.

LONE STAR CALCULATIONS: http://www.jankrentz.com/download/lone_star_calculations.pdf

DRAWING A TRAPEZOID SHAPE: http://www.jankrentz.com/download/Draw_the_Trapezoid_unit.pdf

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<i>Equipment and Supplies– Please mark everything clearly with your name!</i>			
Sewing machine with various presser feet, electrical hook-up, foot feed, accessories		Machine must be clean, serviced, and functioning well before class.	
Dressmaking – weight thread – I recommend a good quality 50-wt, 3ply thread for quilts or garments that will receive regular use and laundering due to their strength in seams.			
Sewing machine extension table surface such as a Sew-Steady or similar (fits around sleeve-sized sewing machine bed)			
Bobbins – wound with medium tone thread to blend with your project		Quarter-inch presser foot for machine	
Sewing machine needles – sharps (Microtex, Quilting, Top Stitch, etc)		Glass-headed pins – .05 shaft x 1 3/8" long	
Rotary cutter with NEW blade (45mm or 60mm preferred)		Medium or large rotary cutting mat	
6" x 24" (or wider) acrylic ruler with 45° guidelines		3" x 18" ruler if you own one	
3-ring notebook (must have!) with supply lists, a few sheets of blank paper, and collected design inspiration pictures.		Large square acrylic ruler (do not bring if flying / borrow teacher's ruler)	
Glue stick or bottle of Roxanne's Glue Baste-it– use at home for your design mockup (no mockup for Spiral designs)		Fabric scissors	Paper scissors
3-5 large zip-lock bags for storing small pieces, scraps, tools, etc.		Transparent (clear) tape	Double-stick tape
Rigid ironing surface – 12" x 18" or larger if you own one – a limited number of ironing boards will be in class (do not bring if flying)		Heavy duty (3-prong industrial) extension cord (limited number supplied for class – don't bring if you're flying)	
Multi-outlet electrical power strip (don't bring if you're flying)		Freezer paper (partial roll OK)	
Colored pencils (will be used to mark seams on fabric and shade in design areas on drawings)	pencil & eraser	<u>Extra fine</u> Sharpie marker	
Small pencil sharpener – school supply variety	Safety pins – for final pinning design pieces to felt – safe transport /packing without puncturing yourself!		
Quilter's Design mirrors or 2 mirror tiles, taped with duct tape (creating a hinge) – classroom-use mirrors will be available for student use		<i>Lone Star Quilts & Beyond</i> book – recommended	
<i>Optional supplies or equipment</i>			
DRAFTING SUPPLIES: (used for setting designs) 11 x 17 graph paper sheets (2-5)		Large compass or 1" x 12" Omnigrd ruler & compass point set (if you plan to design compass patterns, and own the tools)	
Personal coffee cup	great jokes / stories / sense of humor	Desk lamp or Ott light	Advil / Tylenol if desired
Camera to record class projects (strongly encouraged & will be used in class as a design tool!)			Band-aids
Chair cushion (strongly encouraged for all students!)		Favorite chair (if driving)	Eye glasses / sunglasses / readers
2 large rubber door stops (to tilt machine towards yourself in class)			
Large sheet or piece of cloth (to lay over your work station when you depart; it says "I'm away" and conceals your equipment)		Table leg raisers – see Jan's website (supply list, bottom) for tips – can work together with a fellow student to raise 1 table for both to cut, and keep 1 table low to both sew.	

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COLOR CHART

Fabric color	Sample / Swatch	Optional 2 nd value	
1. Light yellow		1B.	
2. Light peach		2B.	
3. Light pink		3B.	
4. Light lavender		4B.	
5. Light orchid		5B.	
6. Light blue		6B.	
7. Light aqua		7B.	
8. Light lime green		8B.	