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Bill Krier  
Editor in Chief, WOOD magazine

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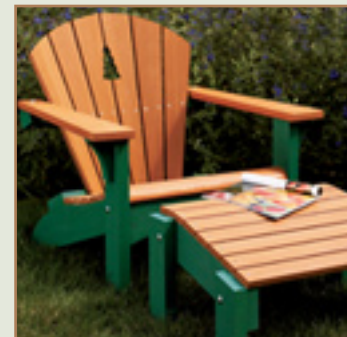
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# Queen-Sized Quilt Showcase



*Here's an easy approach to Early American elegance. Our wall-mounted design lets you display your favorite quilts proudly—instead of just hanging them on the usual free-standing model. We proportioned this rack generously because we've never met a quilt lover yet who had just one favorite.*



## Bill of Materials

Part	Finished Size			Mati.	Qty.
	T	W	L		
A side panels	3/4"	7"	47 7/8"	C	2
B top rail	3/4"	6"	40 1/2"	C	1
C shelf	3/4"	6 3/4"	40 1/2"	C	1
D stretchers	3/4"	3"	40 1/2"	C	2
E* shelf rail	1/2"	3/4"	40 3/8"	C	1
F hangers	3/4"	1 1/8"	40 7/16"	C	2
G hanger caps	1/2"	1 1/8"	40 7/16"	C	2
H brackets	1/2"	1 1/8"	2 1/8"	C	4

\*Cut parts marked with an \* to final size during construction. Please read all instructions before cutting.

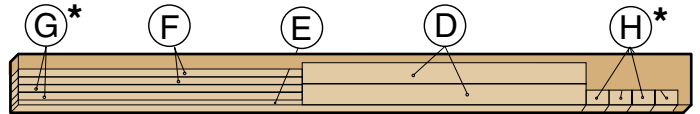
**Materials Key:** C—cherry.

**Supplies:** #8x1 1/4" flathead wood screws, 1/4" dowel stock, #10x2" panhead wood screws, triangle picture hangers, adhesive cork pads, finish.

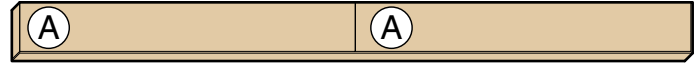
### Buying Guide

**Spindles and Plugs.** 20—9/16x1 1/2" cherry gallery spindles #107-C; 14—3/8" flathead cherry plug #105-C; 18—3/8" mushroom cherry plug #31-C. Cherry Tree Toys call 800-848-4363, 2104 Beloit Ave., Janesville, WI 53546 or go to [cherrytreetoys.com](http://cherrytreetoys.com).

## CUTTING DIAGRAM



3/4 x 7 1/4 x 96" Cherry (\* Plane to thickness)

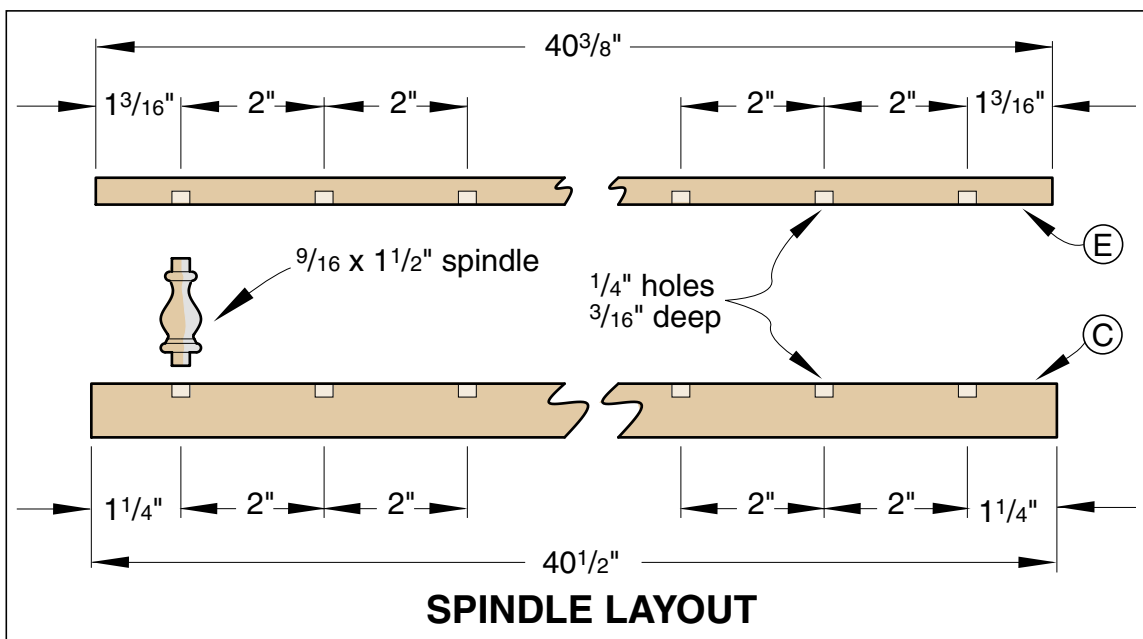
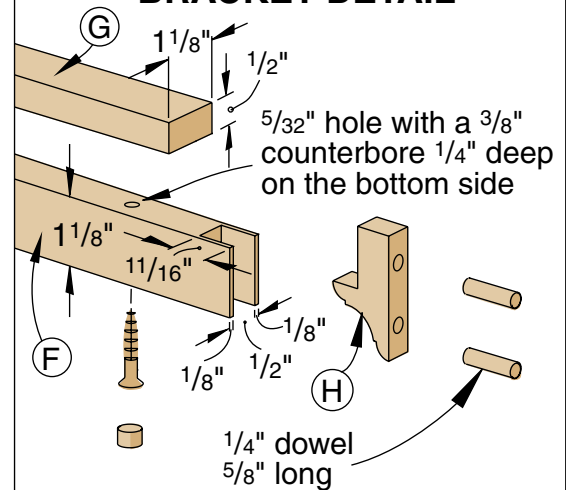


3/4 x 7 1/4 x 96" Cherry



3/4 x 7 1/4 x 96" Cherry

## HANGER AND BRACKET DETAIL



### Start with the Main Frame Parts

**1** To make the side panels (A), start with a 96" length of  $\frac{3}{4} \times 7\frac{1}{4}$ " stock. (We selected cherry.) Rip the stock to 7" wide, then crosscut two lengths to 47 $\frac{7}{8}$ ". From a second piece of  $\frac{3}{4} \times 7\frac{1}{4} \times 96$ " stock, crosscut the top rail (B) to 40 $\frac{1}{2}$ " long.

**2** Lay out the full-size Side Panel patterns on *page 7* and Top Rail half-pattern shown *below right* in full size on large sheets of paper. (We keep a roll of butcher paper in our shop for this purpose.) Make a copy of each Side pattern and two copies of the Top Rail half-pattern. Stack the two side panels using double-faced carpet tape, and adhere the top and bottom patterns to one face. Tape the two copies of the half-pattern together at the centerline. Then, find the center of the top rail, align the pattern centerline with it, and adhere the pattern to the stock.

**3** Fit your portable jigsaw with a fine-tooth blade, and saw the side panels and top rail to shape, keeping your blade outside the line. Sand to the line using a 1 $\frac{1}{2}$ "-diameter fine-grit drum sander in your drill press. Smooth the angular details with a small triangular file.

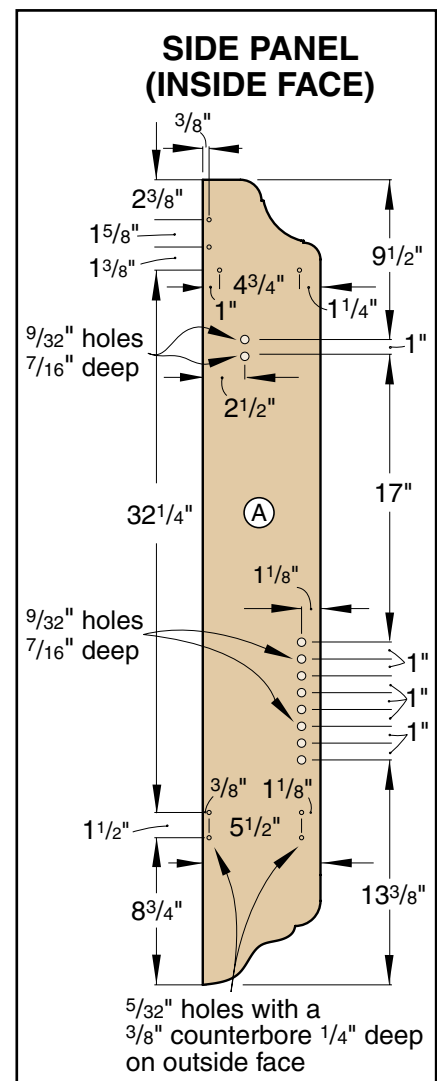
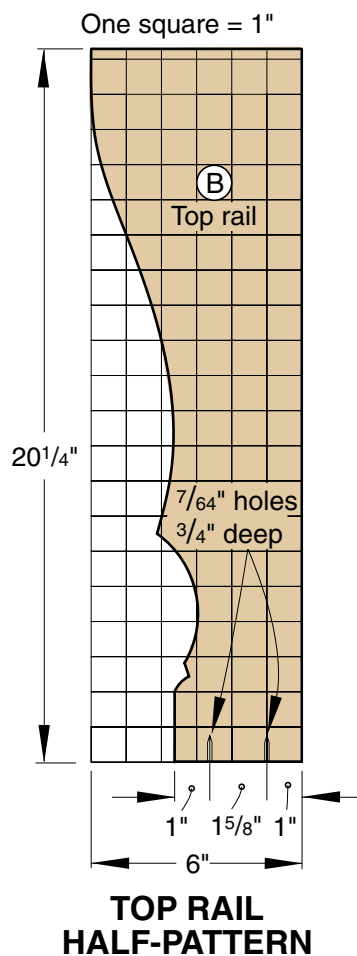
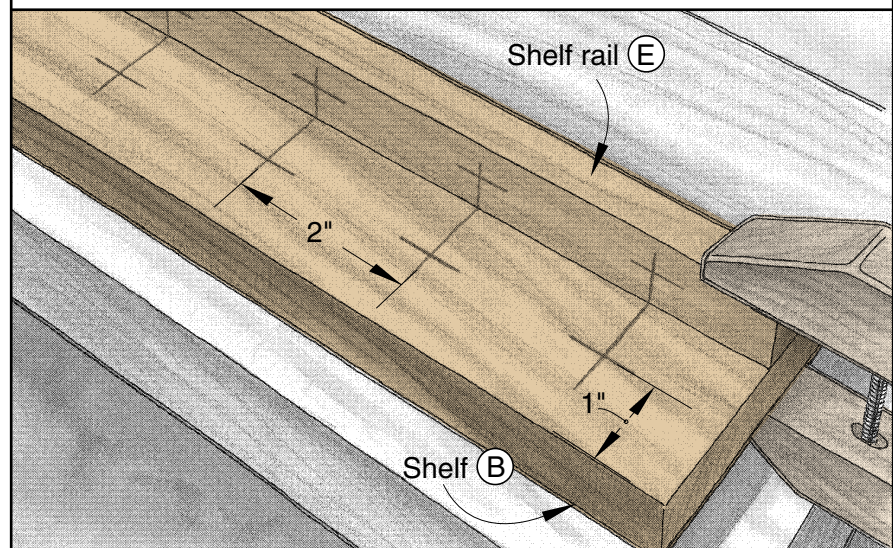
**4** To make the shelf (C), rip and crosscut your leftover stock to 6 $\frac{3}{4} \times 40\frac{1}{2}$ ". From a third  $\frac{3}{4} \times 7\frac{1}{4} \times 96$ " piece of stock, rip and crosscut two stretchers (D) to 3 $\times 40\frac{1}{2}$ ".

**5** Fit your table-mounted router with a piloted  $\frac{1}{4}$ " round-over bit, and rout the top and bottom front edges—not the ends—of the shelf. Then, rout all four edges of the front stretcher and just the front edges of the back stretcher where shown on the Exploded View drawing. Finish-sand the side panels, top rail, shelf, and stretchers using 150- and 220-grit sandpaper.

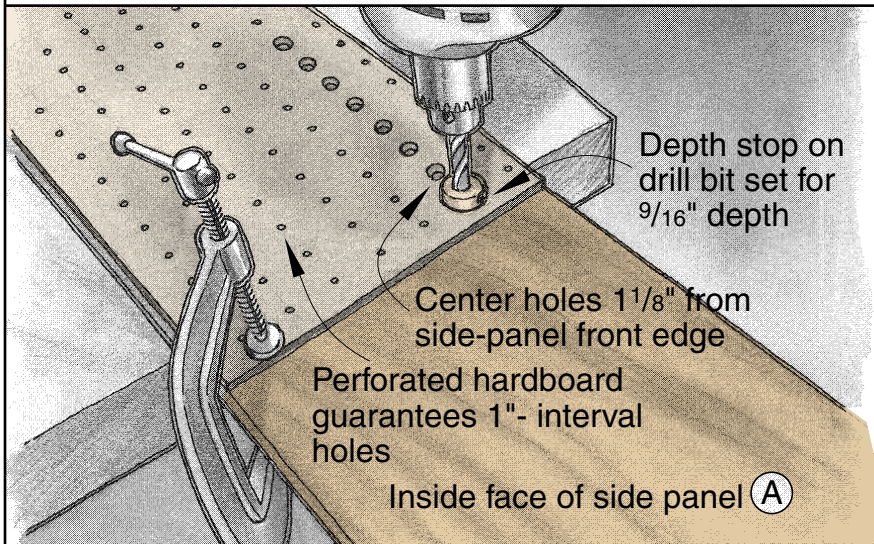
### Now, Add a Rail and Spindles To Accent the Shelf

**1** From your third piece of stock, rip and crosscut a shelf rail (E) to  $\frac{3}{8} \times 40\frac{1}{2}$ ". (Cut the rail to finished length after drilling the spindle holes.)

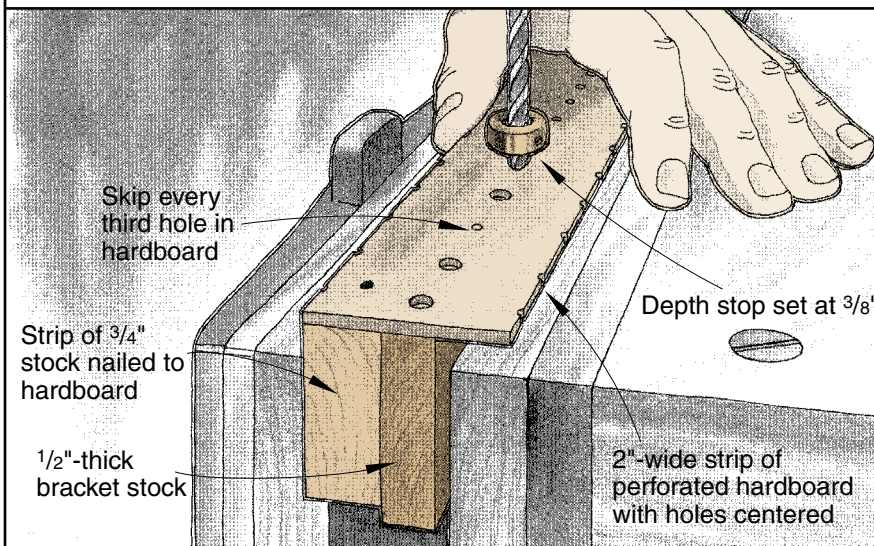
### LAYING OUT THE SPINDLE HOLES



## DRILLING BRACKET HOLES USING TEMPLATE



## DRILLING DOWEL HOLES IN THE BRACKET STOCK



Mark the center of one edge, and lay out 20 spindle holes from this centerline where shown on the Spindle Layout drawing on *page 3*. Now, dry-clamp the shelf rail to the shelf  $1\frac{1}{2}$ " from the front edge as shown *above*. Use your combination square to transfer the hole centers to the shelf 1" from the front edge.

**2** Set up your drill-press table with a fence and  $\frac{1}{4}$ " brad-point bit. Set the quill to a  $\frac{3}{16}$ " depth, and drill the 20 spindle holes on the shelf rail. Adjust the fence, then drill the shelf holes. Now, trim  $\frac{1}{16}$ " from each end

of the shelf rail for a finished length of  $40\frac{3}{8}$ ". Finish-sand the rail using 150-grit sandpaper.

**3** Glue a  $1\frac{1}{2}$ " cherry spindle with  $\frac{1}{4}\times\frac{3}{16}$ " tenons into each hole on the shelf rail. (See our Buying Guide for a mail-order source.) Glue the spindles into their respective holes on the shelf, then clamp. (We applied glue only to the tip of each spindle tenon and clamped straightedges to the rail top and shelf bottom.) Allow the glue to dry, then unclamp.

## Your Quilt Rack Begins to Take Shape

**1** Next, drill adjustment holes for the lower hanger brackets where shown on the Side Panel drawing on *page 4*. To ensure the accuracy of the hole positions, make a template as shown *left* from a  $7\times 12$ " piece of  $\frac{1}{8}$ "-thick perforated hardboard. (Peg-Board is a familiar brand name.) Cut one edge of the hardboard  $\frac{1}{8}$ " from the center of a row of holes as shown. Align this edge with the front of one side panel, and position the template so the center of the bottom hole measures  $13\frac{3}{8}$ " from the bottom of the side panel. Clamp the template, then drill through the second row of eight holes where shown. To do this, use a portable drill with a depth stop set to  $\frac{9}{16}$ " to allow for the  $\frac{1}{8}$ "-thick hardboard. Drill a first set of holes with an  $\frac{11}{64}$ " twist bit to prevent the bit from wandering. Then, enlarge these holes with a  $\frac{3}{32}$ " twist bit.

**2** Lay out two bracket holes for the upper hanger on each side panel where shown on the Side Panel drawing. Again, use a piece of perforated hardboard as a template. (We cut a 3"-wide piece with one edge  $\frac{1}{2}$ " from the center of a row of holes. We aligned this edge with the side-panel back edge to position a row of holes  $2\frac{1}{2}$ " from the back edge.)

**3** Lay out and drill four evenly spaced counterbores and shank holes  $\frac{3}{8}$ " from the back edge of the shelf bottom as dimensioned on the Exploded View drawing. Next, lay out and bandsaw four right-angled, L-shaped corner jigs from  $\frac{3}{4}$ "-thick plywood. Use two of these to clamp the top rail to the top face of the shelf, then drill a pilot hole in each shank hole. Unclamp, then glue and screw the top rail to the shelf using  $\#8\times 1\frac{1}{4}$ " flathead wood screws. Glue a  $\frac{3}{8}$ " flathead cherry plug into each counterbore, and sand flush when the glue has dried. (See the Buying Guide for a mail-order source.)

**4** Lay out and drill eight counterbores and shank holes on the outside face of each side panel where shown and

dimensioned on the Exploded View and Side View drawings. Next, lay out the positions of the shelf assembly and stretchers on the side panels. Use your four corner jigs to clamp the shelf assembly to the side panels, then drill  $\frac{7}{64}$ " pilot holes through each shank hole to a total depth of  $1\frac{1}{4}$ ". Repeat this step for the two stretchers.

**5** Unclamp all parts, then glue and screw the shelf/top rail assembly and stretchers to the side panels. Check for square, then wipe off any glue squeeze-out with a damp cloth. Allow the glue to dry.

### Machine the Hangers And Brackets, Then Apply Your Finish

**1** Rip and crosscut two hangers (F) to  $1\frac{1}{8}\times 40\frac{7}{16}$ " from  $\frac{3}{4}$ "-thick stock. Set up your tablesaw and rip fence to cut a centered slot in both ends of each hanger where shown and dimensioned on the Hanger and Bracket detail on the Exploded View drawing. (We stood the hangers on end and clamped them to a  $10\times 15$ " sliding wooden auxiliary fence.) Use a rasp to taper the inside tongue faces and smooth the slot surfaces. Then, finish-sand the hangers.

**2** Plane the remainder of your third piece of stock to  $\frac{1}{2}$ " thick. Rip and crosscut two hanger caps (G) to  $1\frac{1}{8}\times 40\frac{7}{16}$ ". Fit your table-mounted router with a  $\frac{1}{4}$ " round-over bit, and rout the top edges of each. Finish-sand each cap, then center and clamp a cap to the top edge of each hanger. Drill counterbore, shank, and pilot holes where shown and dimensioned on the Exploded View drawing and the Hanger and Bracket detail. Unclamp the parts, then glue and screw the hangers to the caps using  $\#8\times 1\frac{1}{4}$ " flathead wood screws. Glue  $\frac{3}{8}$ " flathead cherry plugs into the counterbores, and sand flush after the glue has dried.

**3** To make the brackets (H), rip and crosscut a  $2\times 14$ " piece of  $\frac{1}{2}$ "-thick stock. Make a simple jig as shown on page 5 by cutting a  $2\times 14$ " piece of perforated hardboard with a centered

row of holes. (In other words, rip each edge down the centerline of a row of holes.) Nail this piece to the edge of a  $\frac{3}{4}\times 1\frac{1}{2}\times 14$ " straightedge so that the row of holes is centered  $\frac{1}{4}$ " from the straightedge. Place the jig over the top edge of your bracket stock, and clamp this assembly into your vise as shown. Drill two  $\frac{1}{4}$ " holes  $\frac{3}{8}$ " deep ( $\frac{1}{4}$ " deep plus  $\frac{1}{8}$ " for the hardboard thickness) starting approximately 1" from the end. (Again, we started with an  $\frac{11}{64}$ " twist bit, then finished with a  $\frac{1}{4}$ " twist bit.) Skip a hole, and then drill two more holes. Repeat this procedure until you've drilled four pairs of holes.

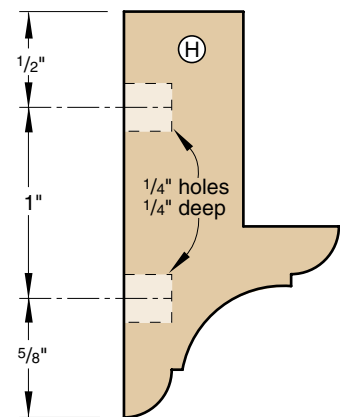
**4** Unclamp your stock, and make four copies of the full-sized Bracket pattern shown at right. Align the holes shown on the patterns with the holes you drilled in the previous step, and adhere your patterns to one face of the stock. Bandsaw the four brackets to shape, keeping your blade outside the line. Then, sand to the line. Sand the flat surfaces smooth. Cut four  $\frac{5}{8}$ " lengths of  $\frac{1}{4}$ " dowel stock, and chamfer one end of each. Glue the other dowel ends into the bracket holes. Now, trial-fit the brackets in the adjustment holes on the side panels.

**5** Finish-sand the side panels, then glue a cherry mushroom plug into each counterbore. (See our Buying Guide for a mail-order source.) Now, apply the finish of your choice. (We brushed on Watco Natural Danish Oil Finish, let it stand for 15 minutes, then wiped off the excess. After an hour, we repeated this procedure. We allowed the finish to dry for 24 hours, then rubbed it out with a cotton cloth. Next, we sprayed all surfaces with three coats of Deft satin aerosol lacquer, sanding between coats with 0000 synthetic steel wool.)

**6** To wall-mount your rack, locate two studs 32" apart in your chosen wall, and mount  $\#10\times 2$ " panhead wood screws. (*Note: If you can't manage to situate the rack over two studs, mount toggle bolts and picture hanging hooks in the wallboard.*) Attach two triangle picture hangers to the back face of the top rail, positioning them to fit the screws. Adhere an adhesive cork pad to the bottom back edge of each side panel to make the rack hang vertically. 🌿

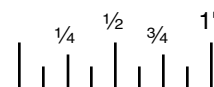
Produced by Marlen Kemmet  
Project Design: Bob Colpetzer  
Illustrations: Roxanne LeMoine, Carson Ode  
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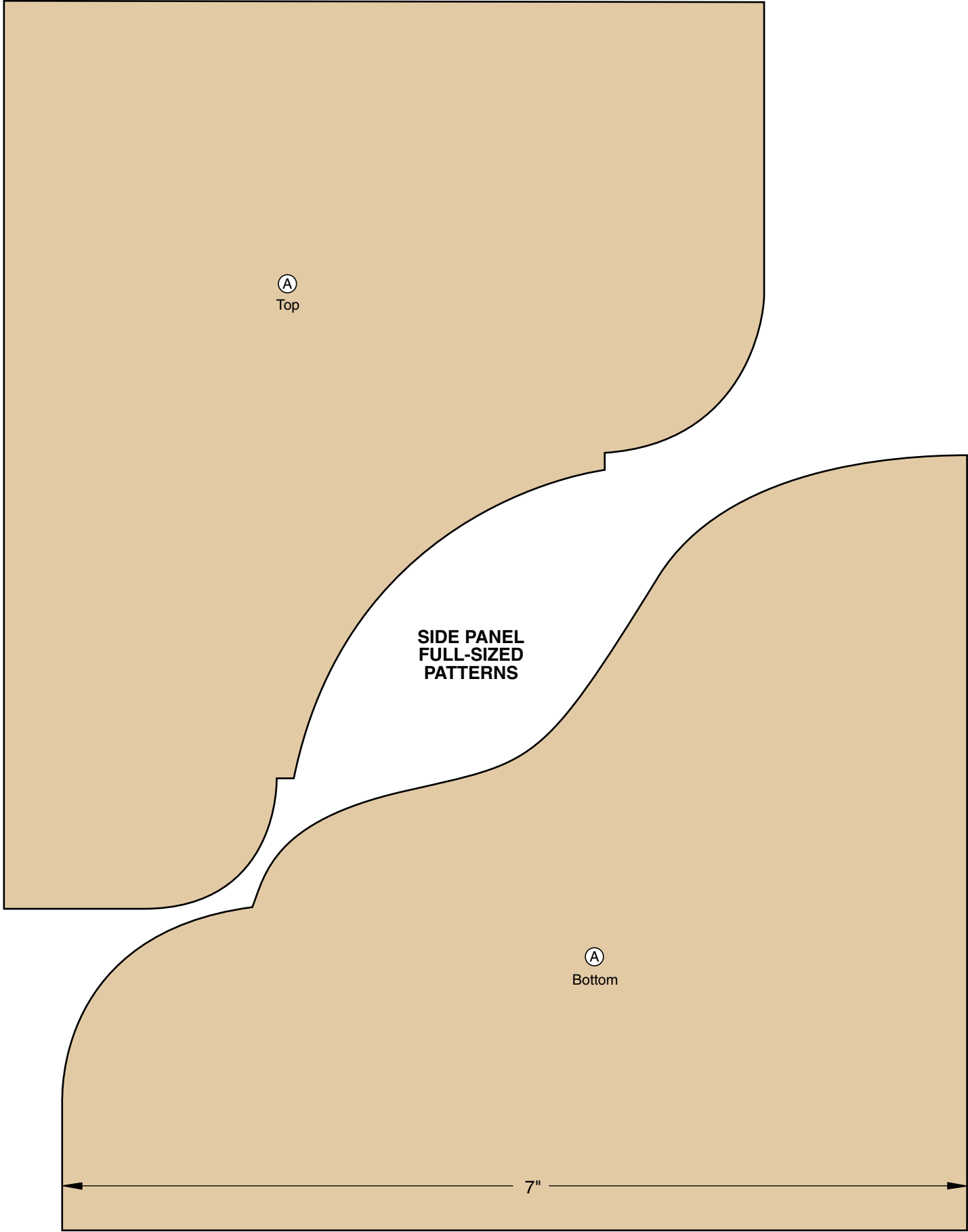
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**FULL-SIZED BRACKET PATTERN**

To ensure full-size patterns are correct size, your printer should be set to print at 100% (not fit to page). Measure full-size patterns to verify size.





Ⓐ  
Top

SIDE PANEL  
FULL-SIZED  
PATTERNS

Ⓐ  
Bottom

7"



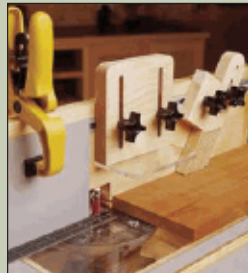
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