

In this plan you'll find:

- Step-by-step construction instruction.
- A complete bill of materials.
- Construction drawings and related photos.
- Tips to help you complete the project and become a better woodworker.

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Victorian-Style Wall Shelf



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WEEKEND WOODSHOP EASY-TO-MAKE ACCESSORIES

Victorian-Style Wall Shelf

wall shelf that looks this good can be put to use almost anywhere in the house. Our shelf is made from mahogany, but cherry or walnut are other good choices for wood. It's a perfect size for displaying a couple of collectible plates, so we added a groove to help keep them in place when they are stood on edge.

We felt ³/₄ in. thick stock looked a little heavy for this project, so we opted to use ⁵/₈ in. thick stock. If you don't have a thickness planer, check to see if your local lumberyard or millwork shop will plane it for you. They usually don't charge much, especially if you buy the stock from them. Another option, of course, is to sharpen up your hand plane, clamp the stock to your workbench, and go at it with vigor.

The Bracket

As shown in Fig. 1, you'll need a piece of stock measuring 5/8 in. thick by 63/4 in. wide by 12 in. long in order to make the bracket (A). Once the stock is cut to size, you can transfer the full-size pattern from the drawing to the stock using carbon or tracing paper. Or if you have access to a photocopy machine, you need only copy the pattern and fix it to the stock with a spray adhesive or rubber cement. For maximum strength, you'll want to make sure the grain of the wood runs in the direction shown in the drawing.

Next, with the table saw miter gauge set to 45 degrees, make the two angled cuts as shown. Then, use the scroll saw to cut the various curves and also the corner notch. (You'll need to bore starter holes in order to make the oval and triangular cutouts.) Once everything is cut, some work with files and sandpaper will smooth the sawn edges.

The Back

To make the back (B), cut ⁵/s in. thick stock to 2 in. wide and 18¹/2 in. long. Transfer the full-size pattern to the stock, including the location of the keyhole shaped slot.

The keyhole slots are made with a special cutter called a keyhole or picture framing router bit, which is available from most mail-order catalog outfits. The bit cuts a lipped slot that serves to grip the head of a nail or screw that's been driven into the wall. We used it here because, unlike most hanging hardware, it permits the project to fit flush against the wall.

Although this bit is designed to be used in a router, for this project we found it easier to cut the slots using the drill press set up shown in Fig. 2. To use the drill press, first set it to the highest speed

(8,000 rpm for our Sears model), then set the depth stop so that the cutter makes a ⁵/₁₆ in. deep cut. Locate a fence 5¹/₂ in. from the centerline of the router bit. Also, make a pusher by cutting ¹/₂ in. or ³/₄ in. thick stock to about 4 in. by 6 in.

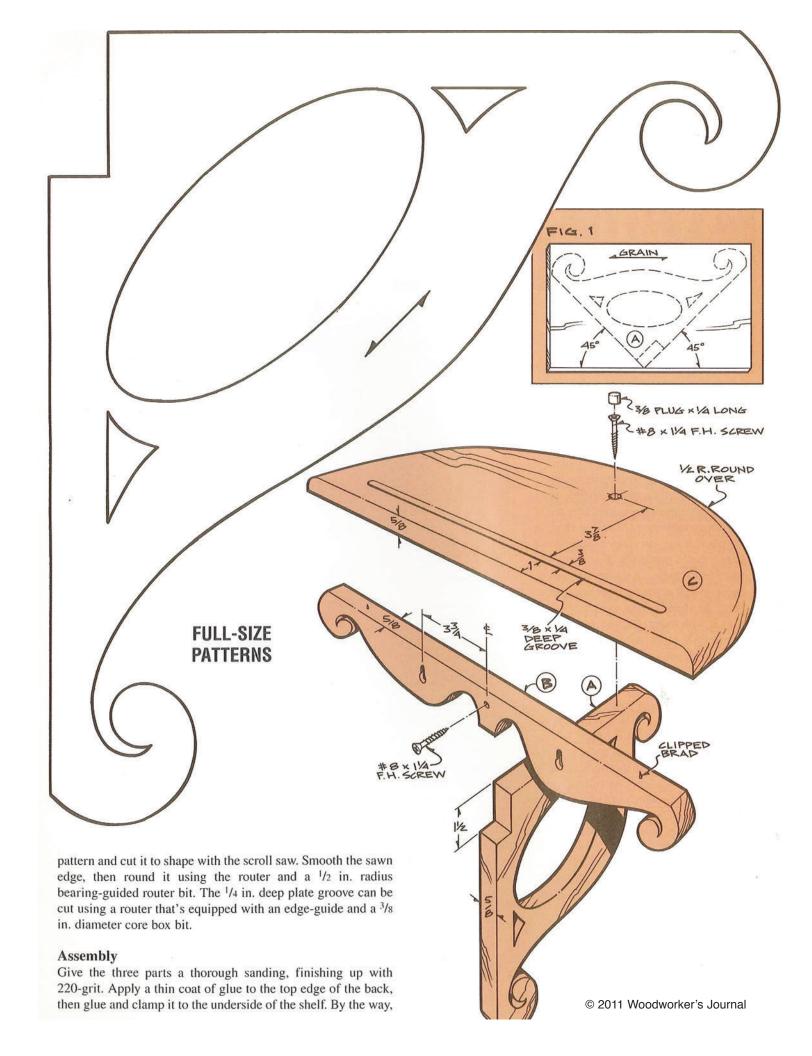
To cut a slot, start the drill press, lower the cutter 5/16 in. deep to the stop and lock it to that depth. Now, using the pusher, feed the stock into the cutter to make the 1/2 in. long slot. Once the slot is cut, shut off the drill press, slide the stock so the bit is at the entry hole, then release the lock and raise the cutter from the slot. Next, flip the stock end-for-end, move the pusher to the other side of the cutter, and repeat the process.

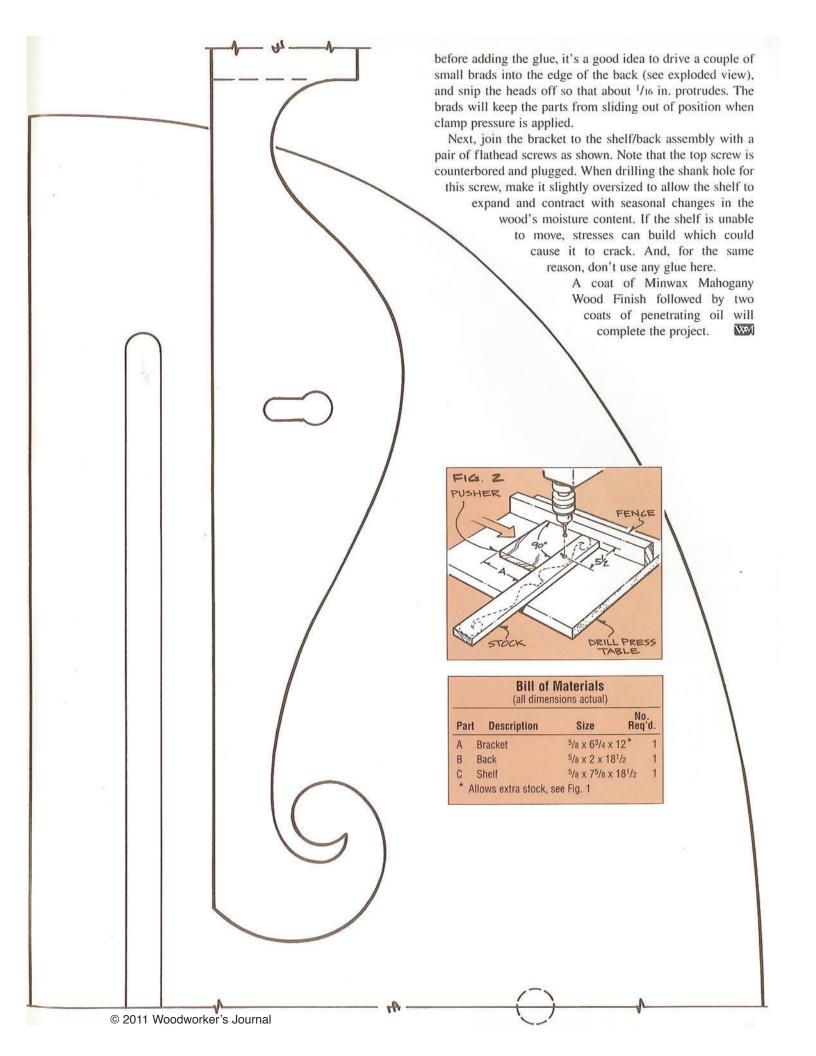
Now, using the scroll saw, follow the pattern traced earlier to cut the curves. As you did with the bracket, sand the edges smooth with files and sandpaper.

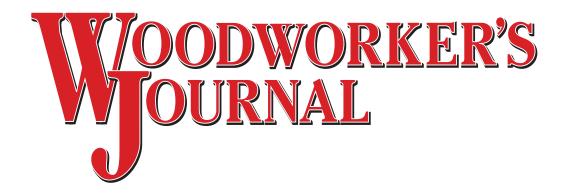
The Shelf

A piece of 5/8 in. thick stock measuring at least 75/8 in. wide by 181/2 in. long is needed for the shelf (C). Transfer the









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Matt Becker Internet Production Coordinator