

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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Oak Plate Rack



Our Mission-style oak rack is the perfect place to display those prized plates and cups or collectibles. A 10 ft. length of 3/4 in. thick by 6/4/4 in. wide stock will provide all the wood parts. A source for the hand-forged cup hooks (f) we used is listed in the Bill of Materials.

Start by laying out and cutting the sides (Å) and shelves (B, C) to length and width. Then cut the mortises and tenons. Use a drill to remove most of the mortise wates, and square the mortises with a chiel. The tenons on the top cud of the sides and on the bottom shelf are all 3 in, wide, so you can use the same table saw setup for the shoulder cuts. Ruise your blade to 1 1/s in, height and use the miler gauge to make one shoulder cut, then flip the stock and cut the opposite shoulder. Use a stopholek to insure accuracy.

Use a sharp handsaw to make the ripping cuts that complete the tensor, An easy way to get a square cut is to clamp a length of scrap on the tenson side of the cut as a guide. Make your cut sut of the line, then clean up the cut with a chief. The $^{1}/_{96}$ in, addus plate groovers in the two shelves are cut with a $^{1}/_{96}$ in, addus plate groovers in the two shelves are cut with a $^{1}/_{96}$ in, addus plate groovers in the two shelves are cut with a $^{1}/_{96}$ in. Use the full-size pattern to lay out the decorative cutouts in the sides. A $^{1}/_{96}$ in dimeter drift bit will produce the circles at he ends of the center cutouts, and a $^{7}/_{1}$ in. diameter bit will cut he round end of the teardrops, but the rest of the cuts will equire either a scroll or coping saw. Use files to clean up any suphness

The remaining details are mostly handwork, A dovertail saw and a chickle will cut the notches in the sides for the rail (D), which slides in and out to allow access for the plates on the bottom sheft. The keys (E) are cut to size and then shaped with ransp and files. Cut the l_2 in hy l_4 in, key mortises so they are l_1/n in, from the tenon shouldess. Since the side and sheff stock is l_1/n in, thick, the l_1/n in, offset that results will allow the keys to apply pressure at hey're instered.

Chamfer the ends of the tenons and rail and final sand all parts. Then apply an oak stain and lacquer topcoat and, when dry, assemble the shelf.

The hand-torged cup hooks and an authentic took, and we like their large diameter, which easily accepts the big handles found on coffee mugs. However, to save a little money, you can always substitute a hardware store variety cup hook. The shelf is sized to mount on sturk that are 16 in, on-center,

whole hangers mortised into the back edge of the sides best way to mount the shelf securely.

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U ur Mission-style oak rack is the perfect place to display those prized plates and cups or collectibles. A 10 ft. length of $^{3}/_{4}$ in. thick by $6^{1}/_{4}$ in. wide stock will provide all the wood parts.

Start by laying out and cutting the sides (A) and shelves (B, C) to length and width. Then cut the mortises and tenons. Use a drill to remove most of the mortise waste, and square the mortises with a chisel. The tenons on the top end of the sides and on the bottom shelf are all 3 in. wide, so you can use the same table saw setup for the shoulder cuts. Raise your blade to a $1^{1}/8$ in. height and use the miter gauge to make one shoulder cut, then flip the stock and cut the opposite shoulder. Use a stopblock to insure accuracy.

Use a sharp handsaw to make the ripping cuts that complete the tenon. An easy way to get a square cut is to clamp a length of scrap on the tenon side of the cut as a guide. Make your cut just off the line, then clean up the cut with a chisel. The 3/16 in. radius plate grooves in the two shelves are cut with a 3/8 in. diameter core box bit using the router and an edge guide.

Use the full-size pattern to lay out the decorative cutouts in the sides. A ³/₈ in. diameter drill bit will produce the circles at

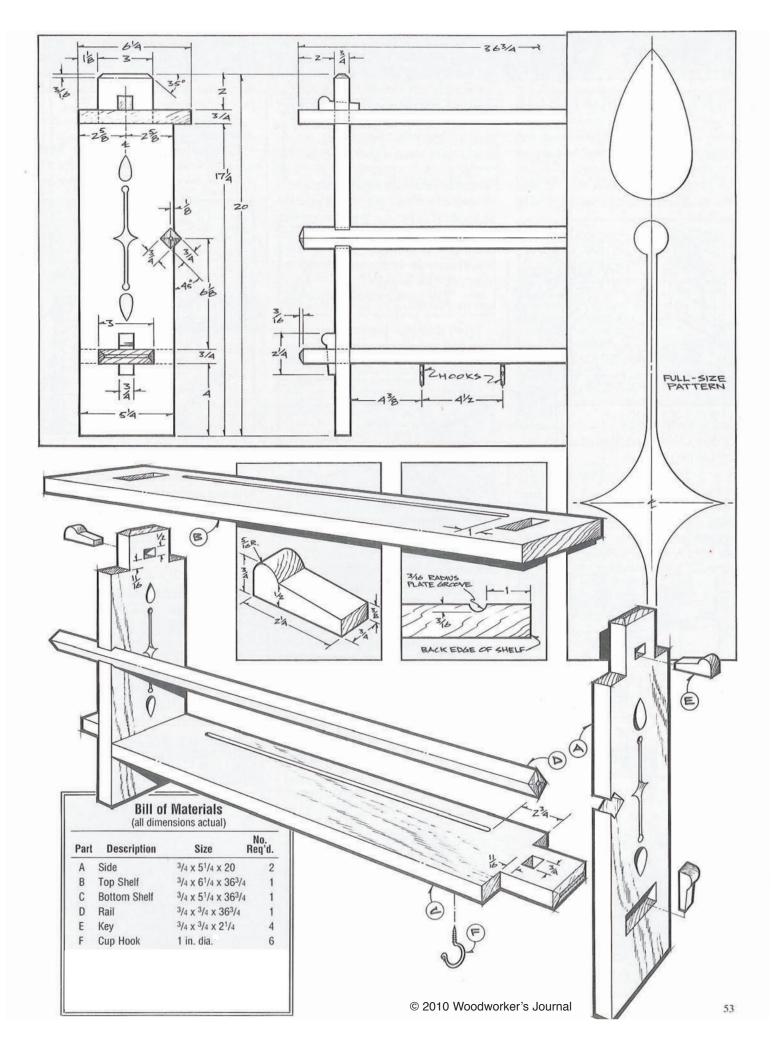
the ends of the center cutouts, and a ⁷/₈ in. diameter bit will cut the round end of the teardrops, but the rest of the cuts will require either a scroll or coping saw. Use files to clean up any roughness.

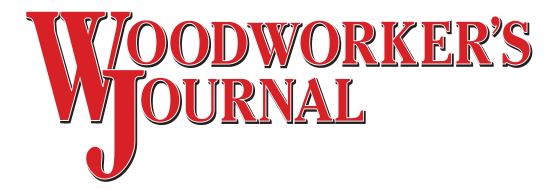
The remaining details are mostly handwork. A dovetail saw and a chisel will cut the notches in the sides for the rail (D), which slides in and out to allow access for the plates on the bottom shelf. The keys (E) are cut to size and then shaped with rasps and files. Cut the 1/2 in. by 3/4 in. key mortises so they are 11/16 in. from the tenon shoulders. Since the side and shelf stock is 3/4 in. thick, the 1/16 in. offset that results will allow the keys to apply pressure as they're inserted.

Chamfer the ends of the tenons and rail and final sand all parts. Then apply an oak stain and lacquer topcoat and, when dry, assemble the shelf.

The hand-forged cup hooks add an authentic look, and we like their large diameter, which easily accepts the big handles found on coffee mugs. However, to save a little money, you can always substitute a hardware store variety cup hook.

The shelf is sized to mount on studs that are 16 in. on-center. Keyhole hangers mortised into the back edge of the sides are the best way to mount the shelf securely.





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Thank you again for your purchase, and happy woodworking!

Matt Becker Internet Production Coordinator