

WOODWORKER'S JOURNAL

"America's leading woodworking authority"™



Classic Project

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.

Stackable Shoe Rack

GIFT SHOP Easy-To-Make Gift Projects

Stackable Shoe Rack

You don't have to be famous for your shoe collection to appreciate a handy closet organizer like our shoe rack. The racks are designed to stack on top of each other, so you can make as many as need. You can also vary the length of the racks to fit your closet.

The pine lumber and steel joint-connector construction makes these racks light but sturdy. And they're easy. The joint connectors employ a cross dowel and connector bolt to securely join two perpendicular wood parts. To mount them you simply drill two holes, a shank hole for the connector bolt and a larger hole for the cross dowel. It's a new wrinkle on an old idea. Wood cross dowels have been used for generations to provide a secure anchor when driving a screw into end grain. The steel variety allows you to easily disassemble the shoe racks.

First cut the sides (A) and stretchers (B) to the sizes shown on the Bill of Materials. We list enough parts to make two complete racks.

With the parts cut to size, move on to drilling the holes. Use

Part	Description	Size	No. Req'd.
A	Side	3/4 x 5 7/8 x 19 1/4	4
B	Stretcher	3/4 x 1 1/4 x 34 1/2	6
C	Cross Dowel	16 mm *	12
D	Connector Bolt	40 mm *	12
E	Locating Pin	3/16 dia. x 1 1/4 long	4

* Available from Garrett Wade, 161 Avenue of the Americas, New York, NY 10013, 1-800-221-2942. The cross dowels are catalog number Q20.02 and sell for \$4.50 for a package of 10. The connector bolts are catalog number Q12.02 and sell for \$2.90 for a package of 10.

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Stackable Shoe Rack

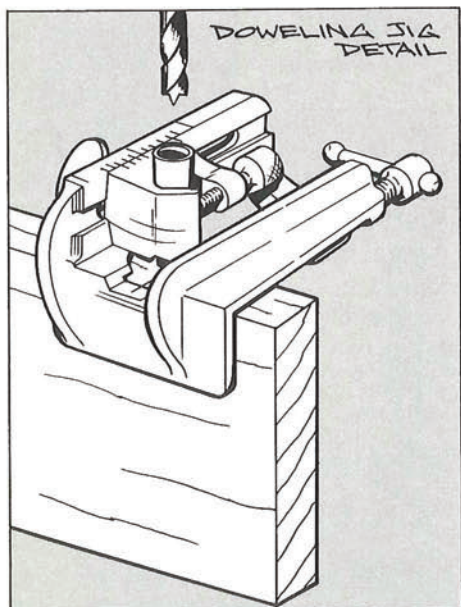
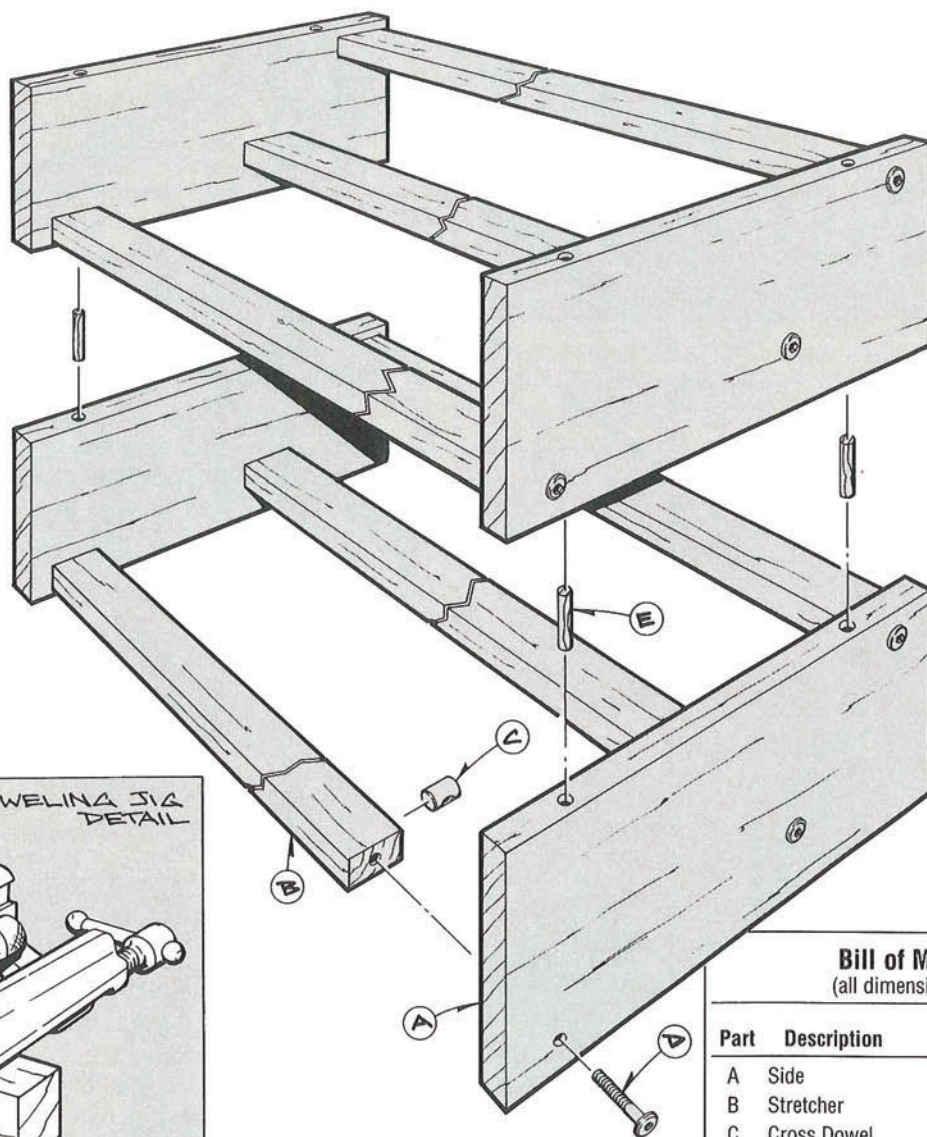
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drill two holes, a shank hole for the connector bolt and a larger hole for the cross dowel. It's a new wrinkle on an old idea. Wood cross dowels have been used for generations to provide a secure anchor when driving a screw into end grain. The steel variety allows you to easily disassemble the shoe racks.

First cut the sides (A) and stretchers (B) to the sizes shown on the Bill of Materials. We list enough parts to make two complete racks.

With the parts cut to size, move on to drilling the holes. Use




Bill of Materials (all dimensions actual)			
Part	Description	Size	No. Req'd.
A	Side	3/4 x 5 1/2 x 11 3/4	4
B	Stretcher	3/4 x 1 1/4 x 34 1/2	6
C	Cross Dowel	16 mm	12
D	Connector Bolt	40 mm	12
E	Locating Pin	3/8 dia. x 1 1/4 long	4



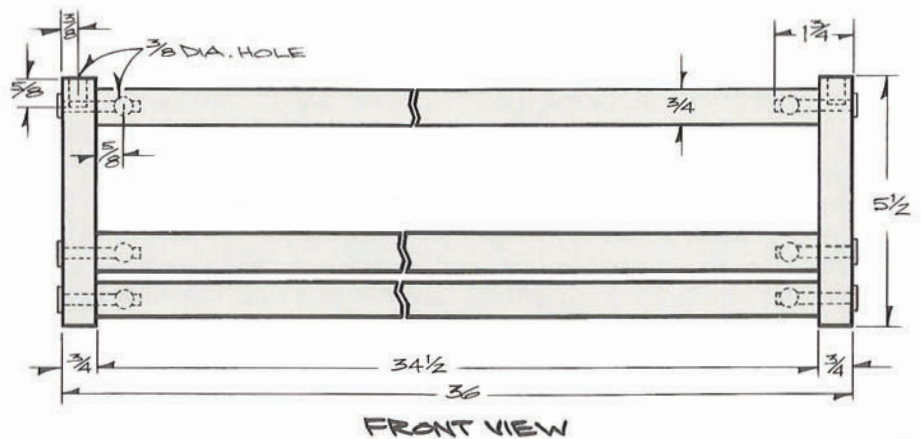
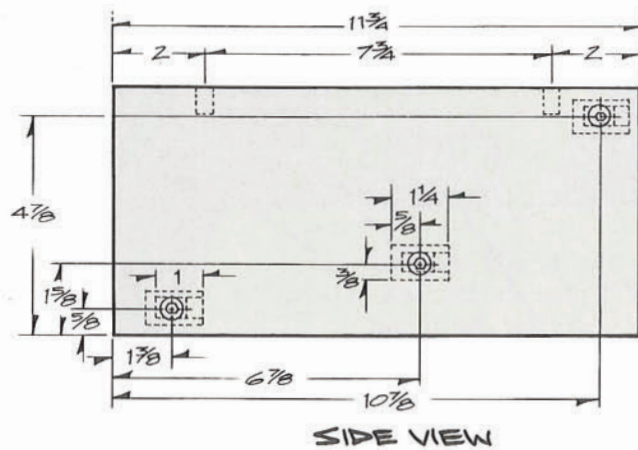
the elevation drawing to locate the hole centers on the sides. A drill press or a drill stand will help to make the holes perpendicular.

Next, use a doweling jig to drill the intersecting holes in the stretchers for the cross dowels (C) and connector bolts (D), as well as the holes in the edges of the sides for the locating pins (E). Note that the cross dowels require a $\frac{3}{8}$ in. diameter by 1 in. deep hole. The connector bolts require a $\frac{1}{4}$ in. diameter by $1\frac{3}{4}$ in. deep hole. Be careful about locating the centers so the holes intersect neatly.

Once the parts are cut and holes drilled, use 150-grit sandpaper to remove any saw marks and slightly round over, or break, the edges. Pay special attention to the end grain, which usually takes more sanding. When the saw marks are gone and the pieces are well sanded overall, switch to 220-grit paper and sand the pieces again. To assemble, insert the cross dowels into their sockets and screw in the connector bolts. Make them good and tight so the stretchers don't turn in use.

We finished the shoe racks with two coats of spray polyurethane varnish. It's quick and leaves a durable finish. 

May/June 1990



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Thank you again for your purchase, and happy woodworking!

Matt Becker
Internet Production Coordinator