#### Do It Yourself

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## Workbench: Assembling the Legs and Base

From "Woodworking"

episode DIW-205 -- More Projects »

Once the rails and legs are made and joined together by the mortise-andtenon system, it's time to assemble the base of the table.

**Note**: This workbench originally appeared in *Workbench Magazine*. Complete plans to build this workbench can be purchased at <a href="https://www.workbenchplans.com">www.www.workbenchplans.com</a>.

#### Materials:

Drill

3/8" spur bit
Masking tape
Wooden peg
Hammer
Scrap wood
Wood glue
3/8" drill bit with extender
1 1/4" Forstner bit
Bolt, washer and nut
Wrench

- 1. Begin joining the mortise-and-tenon system at the top. Place drill bit alongside the mortise opening to choose the correct bit. (**Tip:** A piece of masking tape can be wrapped around the drill bit to indicate the correct depth.)
- 2. Position drill bit in the center of the joint and drill through the front of the leg's surface, through the mortise opening, and into the back of the leg -- but not through the back surface (**figure A**).
- 3. Fit tenon into the mortise opening. Use hammer to tap a drill bit into the hole to mark drilling position on the tenon's surface.



Mortise-and-tenon joints give the workbench legs added strength and stability.

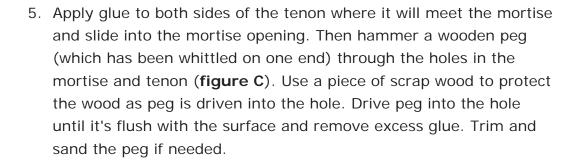


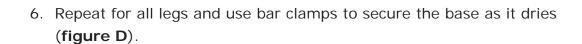
Figure A

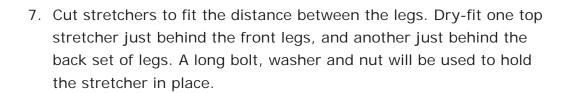


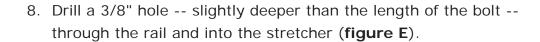
Figure B

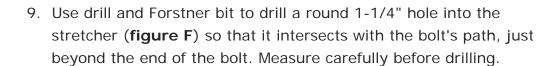
4. Remove tenon and place on a piece of scrap wood. Drill a hole about 1/32" behind the marked position (figure B).











- 10. Add bolt to the hole in the end of the rail (**figure G**). Add a washer and bolt through the 1-1/4" hole in the stretcher and use wrench to tighten.
- 11. Repeat process to secure the ends of both stretchers.

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> <u>Click here</u> to order your tools and materials for this project from **Woodcraft!** 



Figure C



Figure D



Figure E



Figure F



Figure G

### **RESOURCES:**

#### Workbench Vise

Model: Record 52 ED

**Record Tools** 

Website: recordtools.com

Setting Up Shop: The Practical Guide to Designing and Building Your Dream Shop

Model: 1561585556

Author: Sandor Nagyszalanczy

Making Workbenches: Planning, Building, Outfitting

Model: 0806905352 Author: Sam Allen

#### The Workbench Book

Model: 1561582700 Author: Scott Landis

## The Small Wood Shop (The Best of Fine Woodworking)

Model: 1561580619

Author: Helen Albert (Editor)

## Workbench Magazine

How-to magazine featuring a wide variety of woodworking projects.

Workbench Magazine

Website: www.workbenchmagazine.com

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Workbench: Assembling the Legs and Base

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