
DIY Trophy Shelf with Hat Rack

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Before beginning this project...

Please read through all of the plans as well as the blog post associated with this project. Always use safety precautions whenever using power tools and follow the manufacturer's suggested guidelines. Make sure to wear proper safety protection (eye protection, hearing protection, etc.) before beginning any project. Cut all pieces per the measurements in the plans, unless noted otherwise.

Materials Needed:

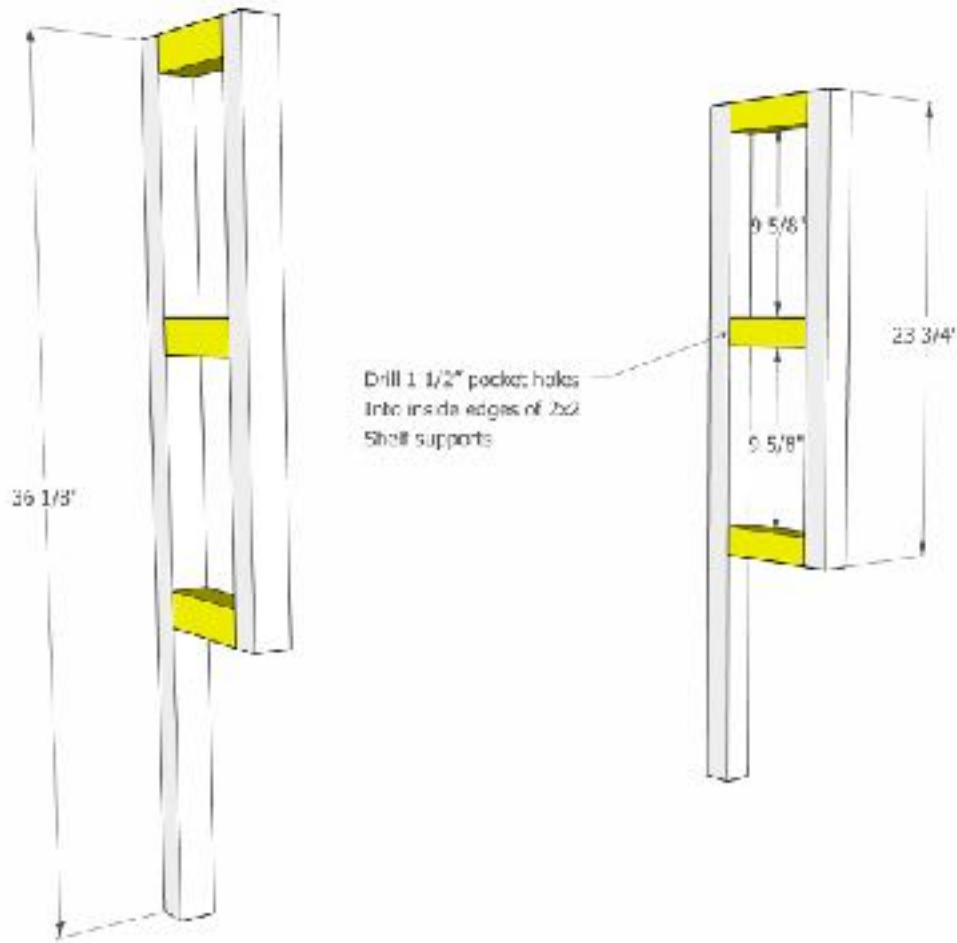
- 2 - 2x2 boards @ 8' long
- 3 - 1x5 @ 6' long (ripped down to 4 1/4")
- 1 - 1x3 @ 6' long
- 7 or 8 single robe hooks
- Wood Filler
- Wood Glue
- 2 1/2" pocket screws
- 1 1/4" pocket screws
- 220 grit sandpaper
- Drill/Impact Driver
- 2" wood screws
- Router
- Keyhole Router Bit

Cut List:

- 2 - 2x2 @ 36 1/8" long
- 2 - 2x2 @ 23 3/4" long
- 6 - 2x2 @ 5 1/2" long
- 6 - 1x5, ripped to 4 1/4" @ 33" long
- 2 - 1x3 @ 30" long

Step One:

Build The Frame



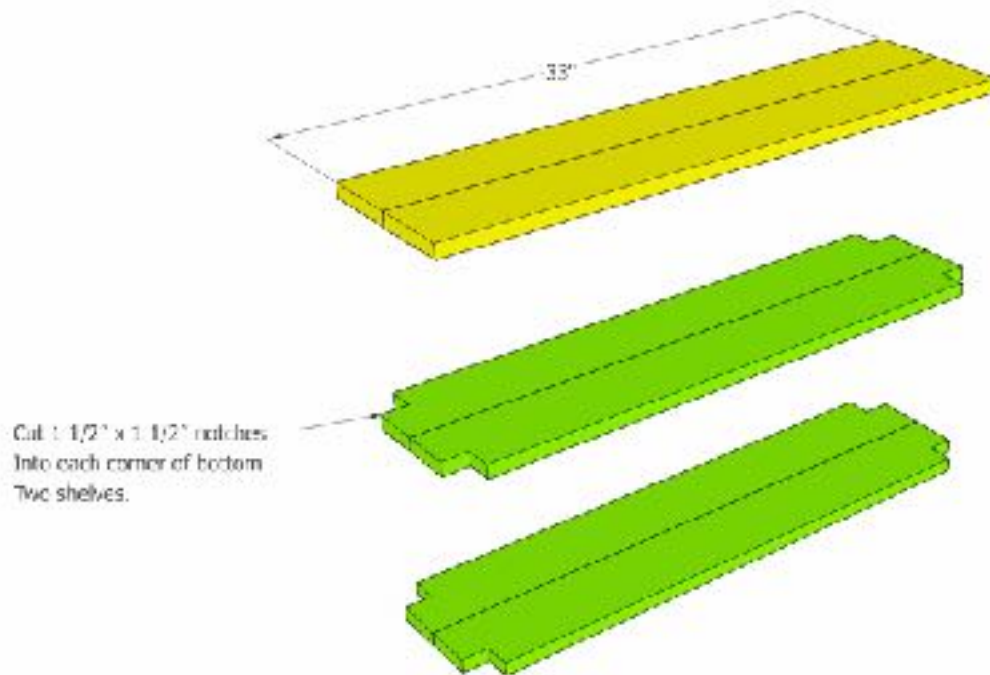
Drill 1 1/2" pocket holes into the inside edge of the 5 1/2" shelf supports. Attach the top supports flush with the top edges of the front and back frame pieces using wood glue and 2 1/2" pocket screws. Attach the middle support with 9 5/8" space between the top and middle edges. Attach the bottom support flush with the bottom edge of the front piece of the frame.

Using a keyhole router bit, route a keyhole groove into the back of each long frame piece for hanging on the wall.

Fill the pocket holes with wood filler, let dry, then sand. Fill again with wood filler as needed. Let dry, then sand frames entirely. If painting, do so now and set aside to dry.

Step Two:

Build The Shelves



Cut the 1x5 boards down to 33" long. Using a table saw or circular saw, rip the boards down to 4 1/4" wide. To build a shelf, apply a bead of glue across one entire edge and spread it over the edge. Place another board against the glued edge and clamp firmly together. Set aside to dry for several hours or overnight. Repeat for the remaining two shelves.

For the two lower shelves, cut 1 1/2" x 1 1/2" notches into each corner using a jigsaw or bandsaw.

Stain or paint the shelves and set aside to dry.

Step Three:

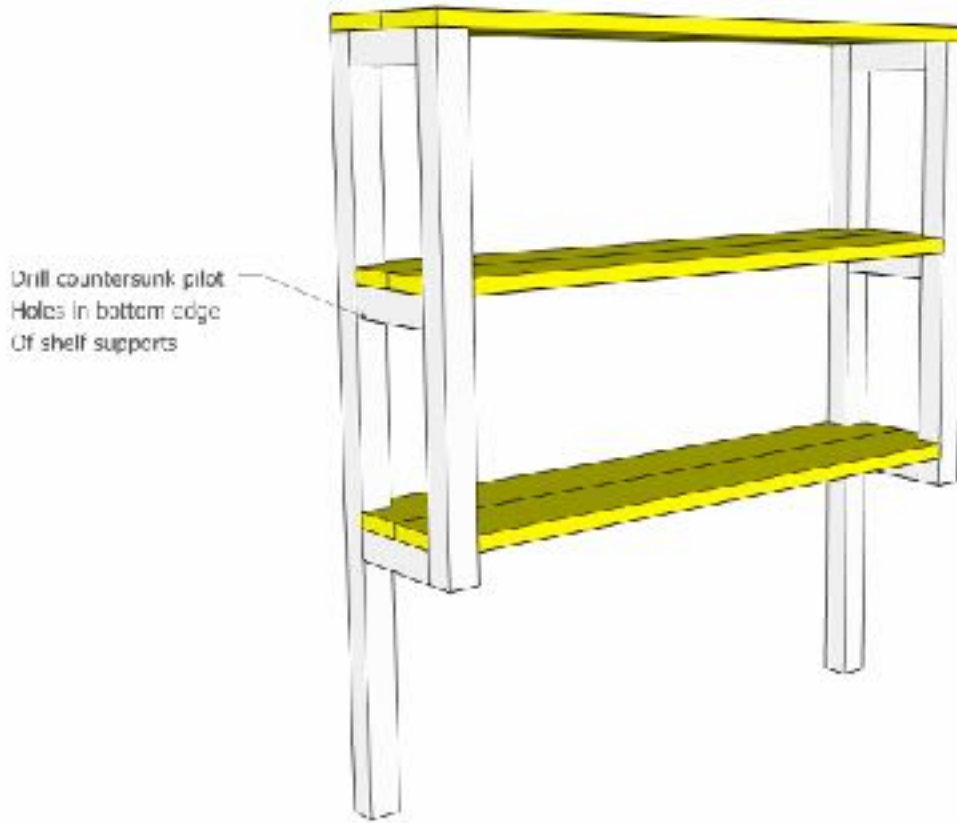
Cut The Boards For The Hat Rack

For the hat rack, cut two 1x3 boards down to 30". Drill 3/4" pocket holes into each end of the boards. Stain or paint and set aside to dry.

If staining hat rack boards and shelves, finish with a clear coat such as polyurethane.

Step Four:

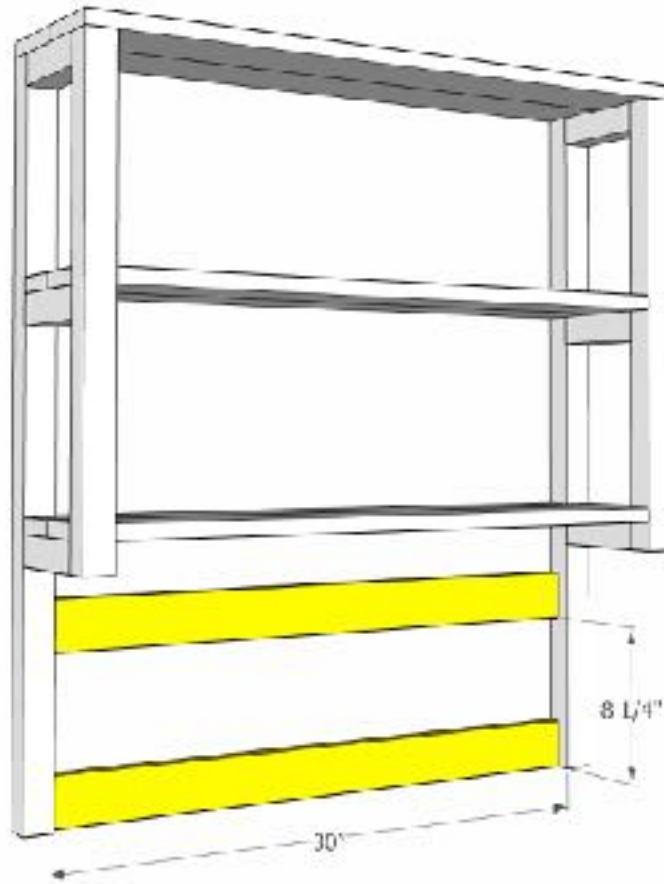
Attach The Shelves



Drill two $\frac{3}{32}$ " countersunk pilot holes into each of the bottom edges of the shelf supports. Clamp the shelves in place and attach with 2" wood screws.

Step Five:

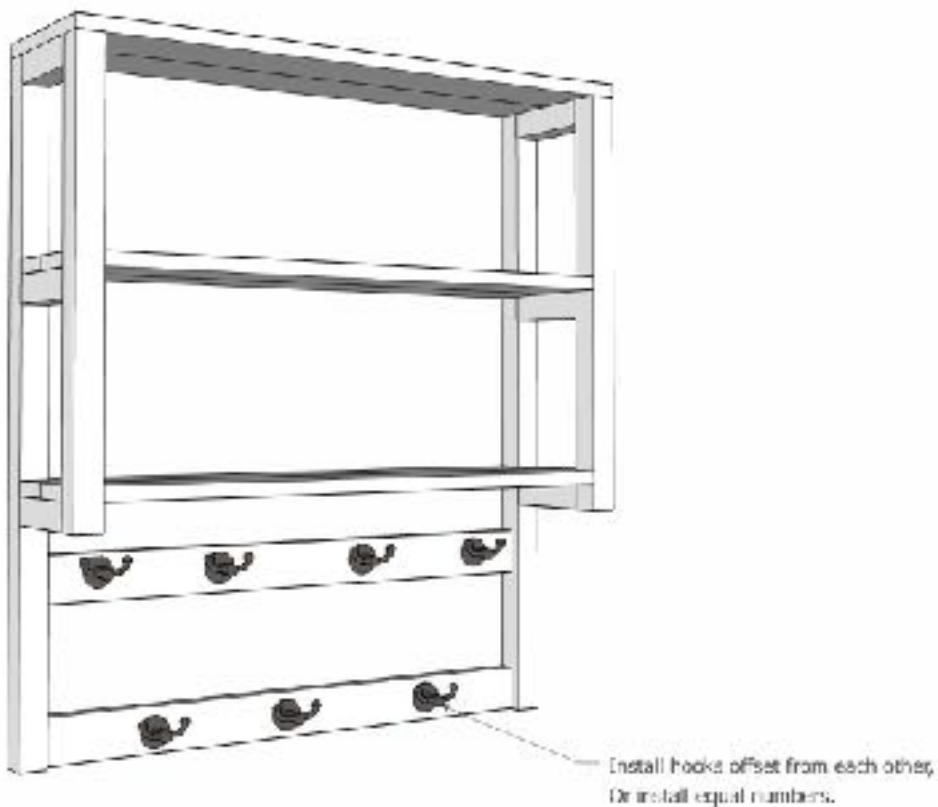
Attach The Hat Rack Backers



Place the top hat rack backer 8 1/4" up from the bottom end of the back frame piece and flush with the back edge. Place the bottom backer flush with the bottom and back edges of the frame piece. Clamp and attach with 1 1/4" pocket screws.

Step Six:

Attach The Hooks



Attach the hooks to the backer boards, either offsetting them with four on top and three on the bottom, or attach four on each board.