

CHIEF'S SHOP PLAN OF THE WEEK



STORAGE TOOL STAND



WHAT YOU'LL NEED



LUMBER

2 - 1 x 2 x 8
2 - 2 x 2 x 8
5 - 2 x 4 x 8
1 - 3/4-inch x 4- x 8-foot
sheet of plywood
(availability will vary)

HARDWARE/SUPPLIES

Kreg 2 1/2" pocket hole screws
Kreg 1 1/4" pocket hole screws
wood glue
paint/stain/
sealer/polyurethane

TOOLS

table saw or circular saw
miter saw
jigsaw
sander/belt sander
drill/driver
Kreg Jig
clamps
square

ABOUT THESE PLANS

On this first page you will see above the project complete. On the last page you'll find the finished outer dimensions. Be sure to read ALL of the project steps before you start.

To the right is a list of the Lumber, Hardware/Supplies, and Tools you will need to complete this project. A measuring tape and pencil are not included because that should be pretty standard and self explanatory.

Below What You'll Need is the Parts list. This also is included on the Cutting Diagram page, which is the next to last page of this plan document. Also on the Cutting Diagram page is an estimate of the cost of the lumber. This estimate doesn't include any other supplies and does not factor in sales tax.

Throughout these plans you'll find the icons below:



LAYOUT

This indicates a diagram detailing the dimensions of a project part and/or the placement for pocket holes, screws, nails, etc.



NOTE

Notes are the instructions for a particular step/section of the project.



TAKE CARE!

This indicates when to pay close attention to the diagrams, take precautions for safety, etc.



MORE PLANS

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VIDEO?

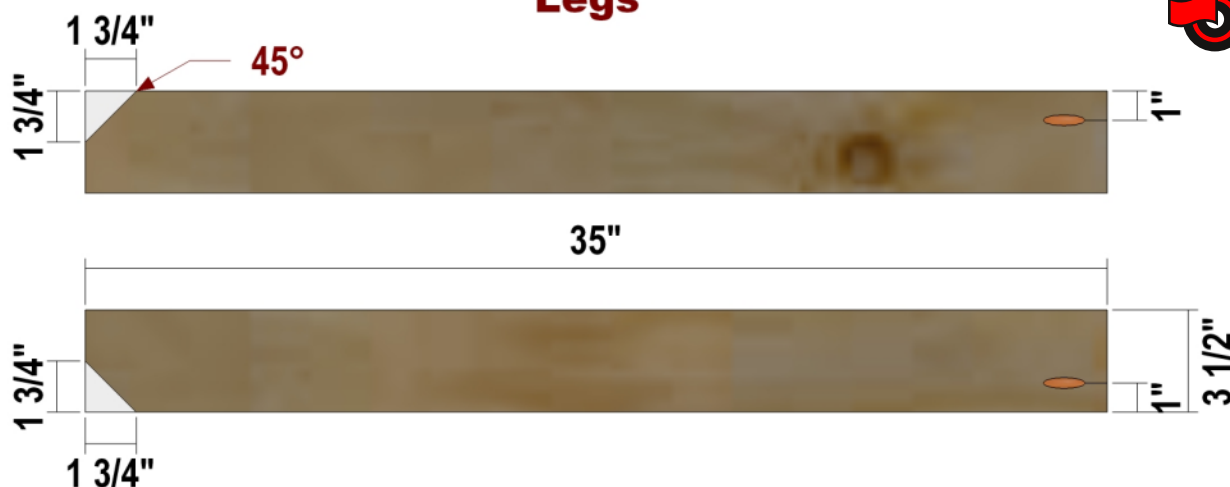
Check out Chief's Shop Videos on YouTube. ([click here](#))

PARTS

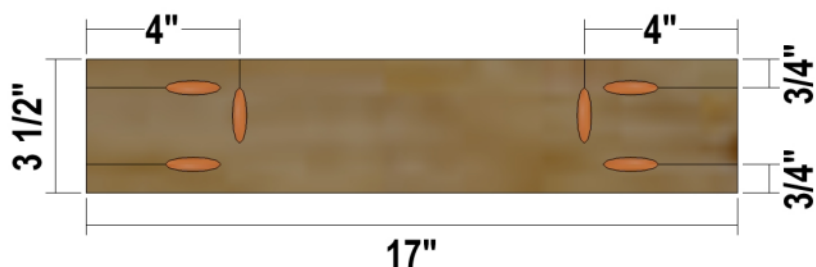
Legs (4) - 1 1/2 x 3 1/2 x 35
Top End Rails (2) - 1 1/2 x 3 1/2 x 17
Mid End Rails (2) - 1 1/2 x 1 1/2 x 17
Bottom End Rails (2) - 1 1/2 x 3 1/2 x 17
Top Side Rails (2) - 1 1/2 x 3 1/2 x 36
Top Stretcher - 1 1/2 x 3 1/2 x 21
Mid Side Rails (2) - 1 1/2 x 1 1/2 x 36
Mid Shelf Stretcher - 1 1/2 x 1 1/2 x 9 3/4
Bottom Side Rails (2) - 1 1/2 x 3 1/2 x 36
Bottom Shelf Stretcher - 1 1/2 x 3 1/2 x 9 3/4
Top - 3/4 x 24 x 39
End Top Trim (2) - 3/4 x 1 1/2 x 24
Side Top Trim (2) - 3/4 x 1 1/2 x 40 1/2
Shelves (2) - 3/4 x 12 3/4 x 39

All parts are listed in actual dimensions. Refer to the Cutting Diagram on the last page of this plan as a guide for determining the specific board from which to cut the parts.

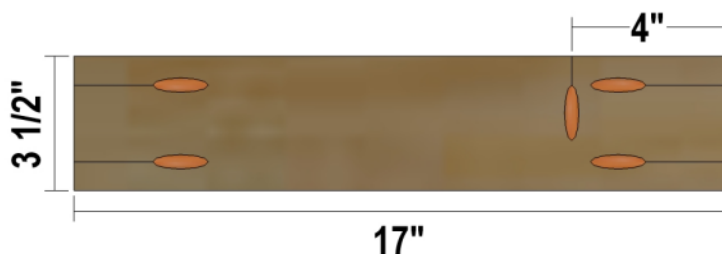
Legs



Top End Rail

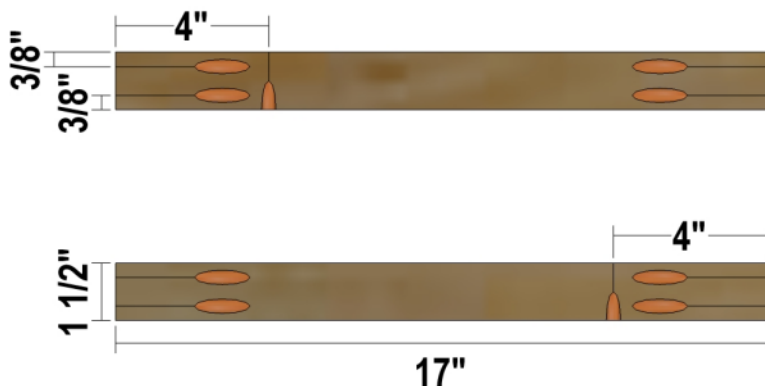


Bottom End Rails

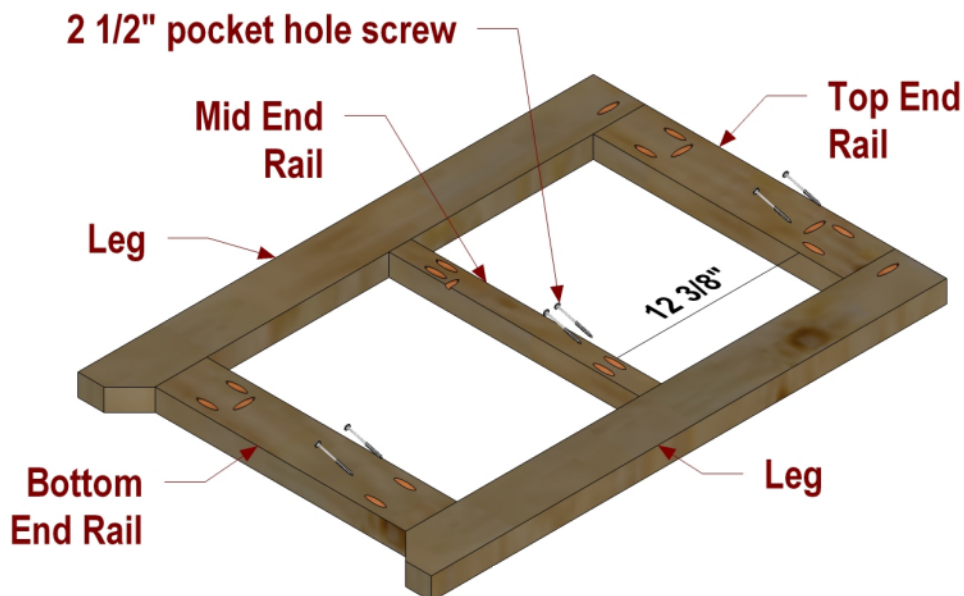


Use the layouts on this page to create the Legs, Top End Rails, and Bottom End Rails (not that there are two different Bottom End Rails. **Set your Kreg Jig and drill bit for 3/4" stock for the Legs (you will be driving the screws into 3/4" material later. Set your Kreg Jig and drill bit for 3/4" stock for the vertical holes on the Rails. Set your Kreg Jig and drill bit for 1 1/2" stock for the horizontal holes on the ends of the Rails. Create two of each of the Legs (four total), two of the Top End rails, and one each of the Bottom End Rails.**

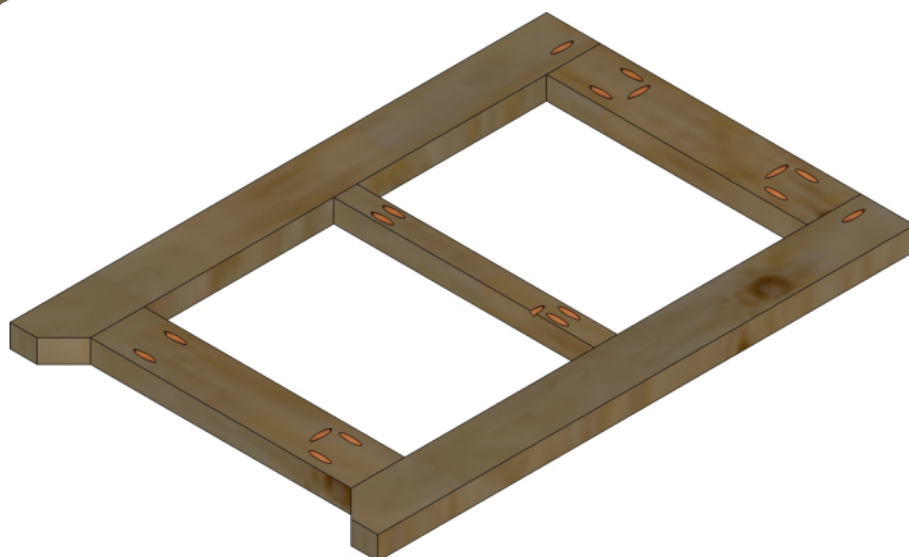
Mid End Rails



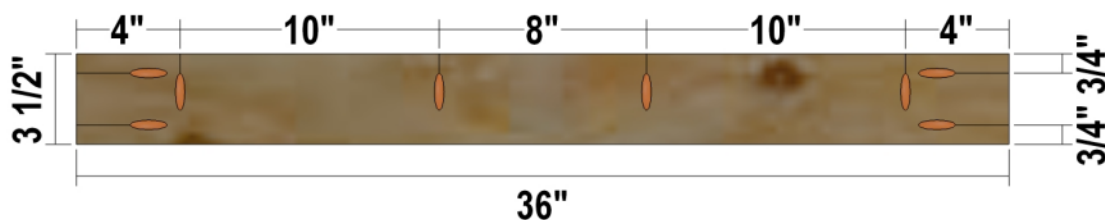
Use the layout to create the Mid End Rails. **Set your Kreg Jig and drill bit for 3/4" stock for the vertical holes and 1 1/2" stock for the horizontal holes on the ends of the Rails.**



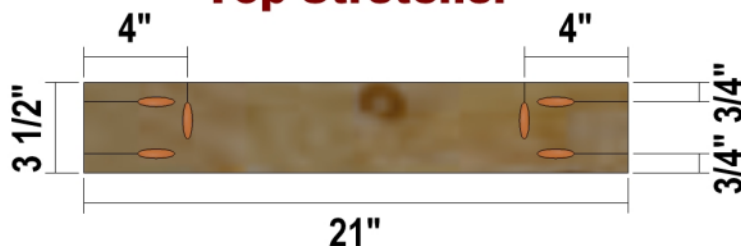
Apply glue to the ends of the Rails, and position the parts as shown. Attach using 2 1/2" pocket hole screws. Create two assemblies as shown. Note the position of the vertical pocket holes on the Mid End Rails and Bottom End Rails - make sure that they match each other.



Top/Bottom Side Rail



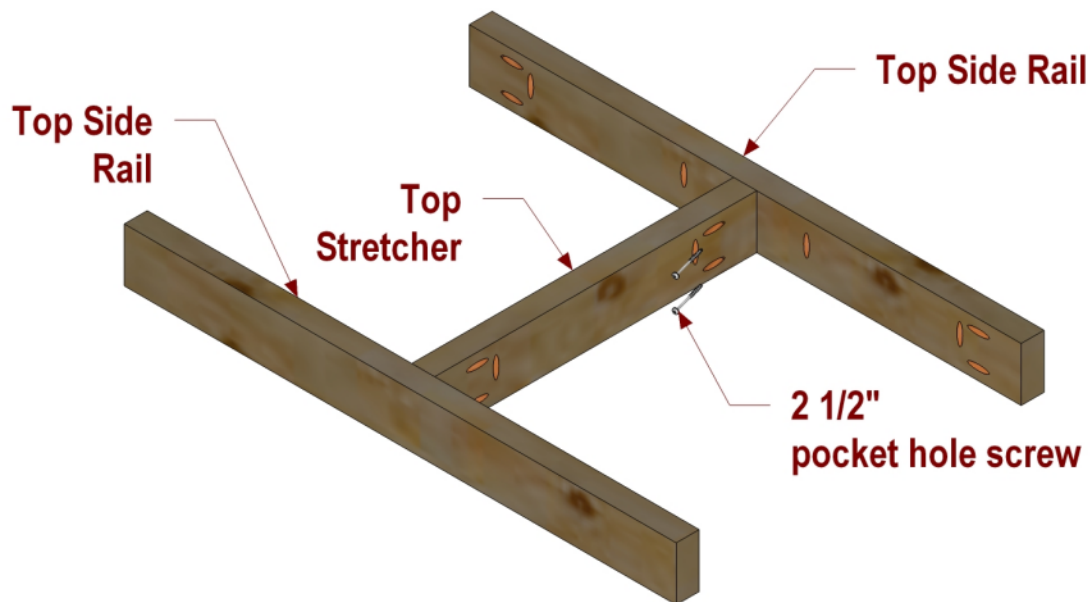
Top Stretcher



Use the layouts for creating the Top Side Rails and the Top Stretcher. **Set your Kreg Jig and drill bit for 3/4" stock for the vertical holes and 1 1/2" stock for the horizontal holes on the ends.**

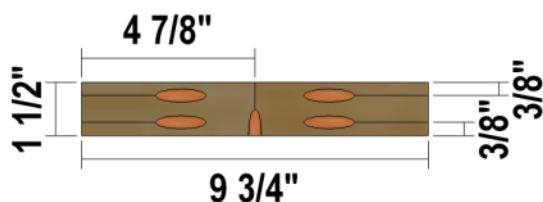


Apply glue to the ends of the Top Stretcher, and position the parts as shown. Attach using 2 1/2" pocket hole screws.





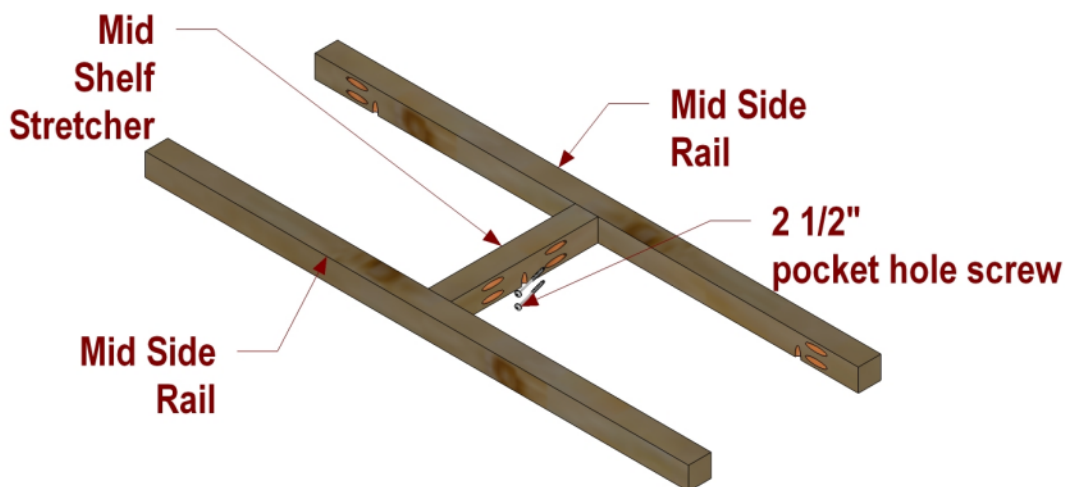
Mid Shelf Stretcher



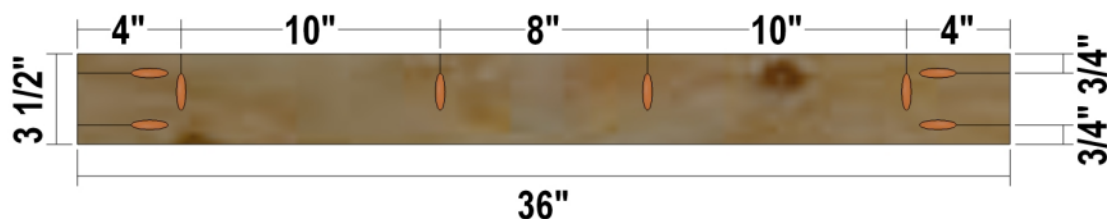
Use the layouts to create the Mid Side Rails and the Mid Shelf Stretcher. Set your Kreg Jig and drill bit for 3/4" stock for the vertical holes and 1 1/2" stock for the horizontal holes on the ends.



Apply glue to the ends of the Mid Shelf Stretcher, and position the parts as shown. Attach using 2 1/2" pocket hole screws.



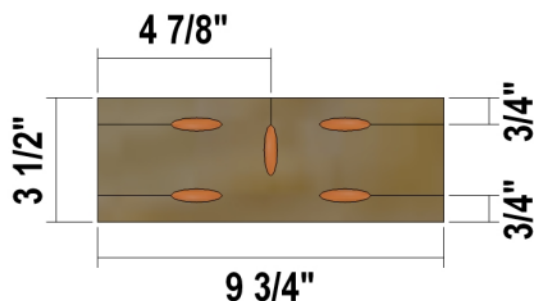
Top/Bottom Side Rail



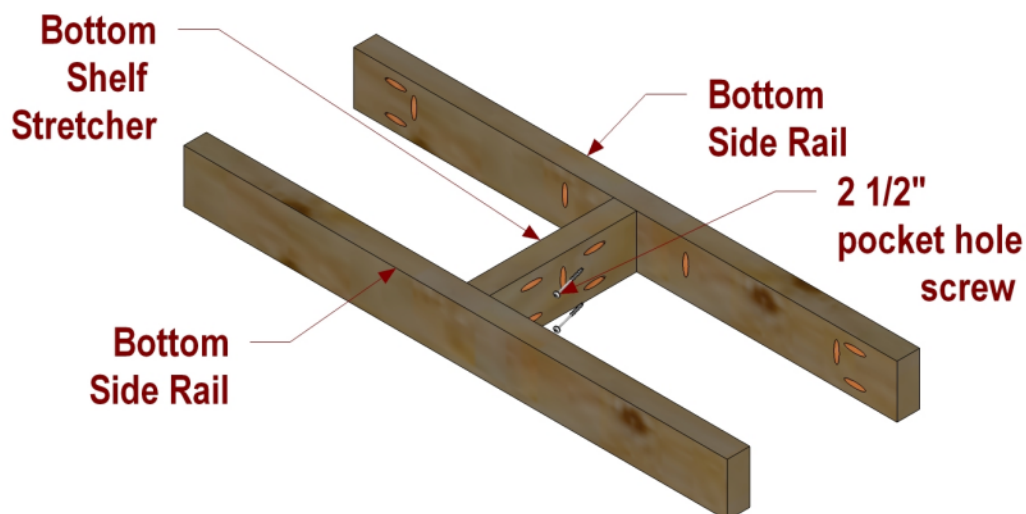
Bottom Shelf Stretcher



Use the layouts to create the Bottom Side Rails and the Bottom Shelf Stretcher. Set your Kreg Jig and drill bit for 3/4" stock for the vertical holes and 1 1/2" stock for the horizontal holes on the ends.

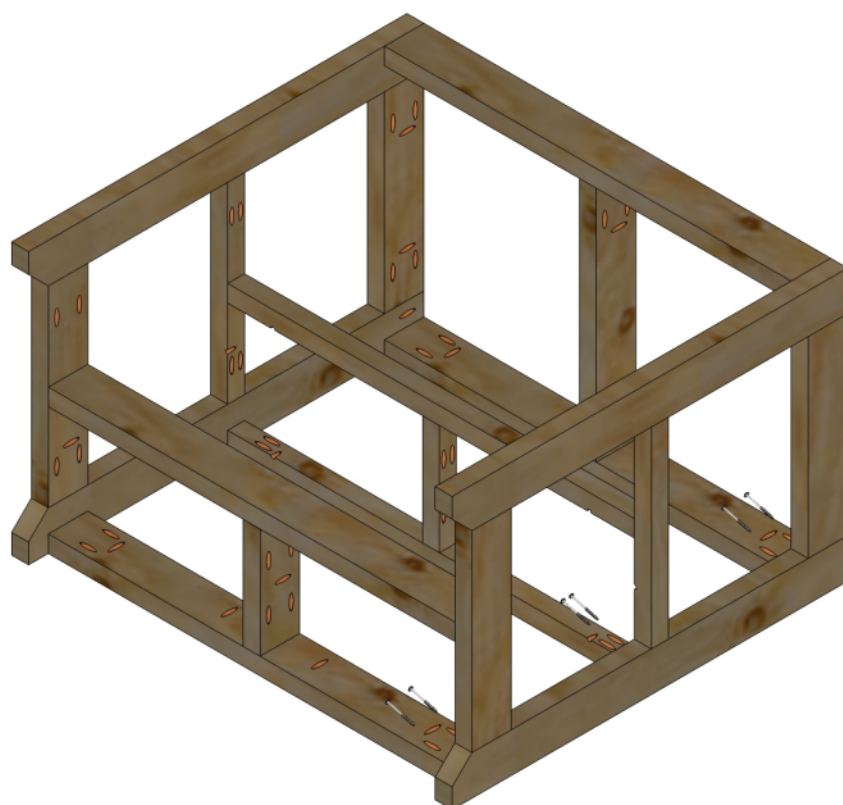
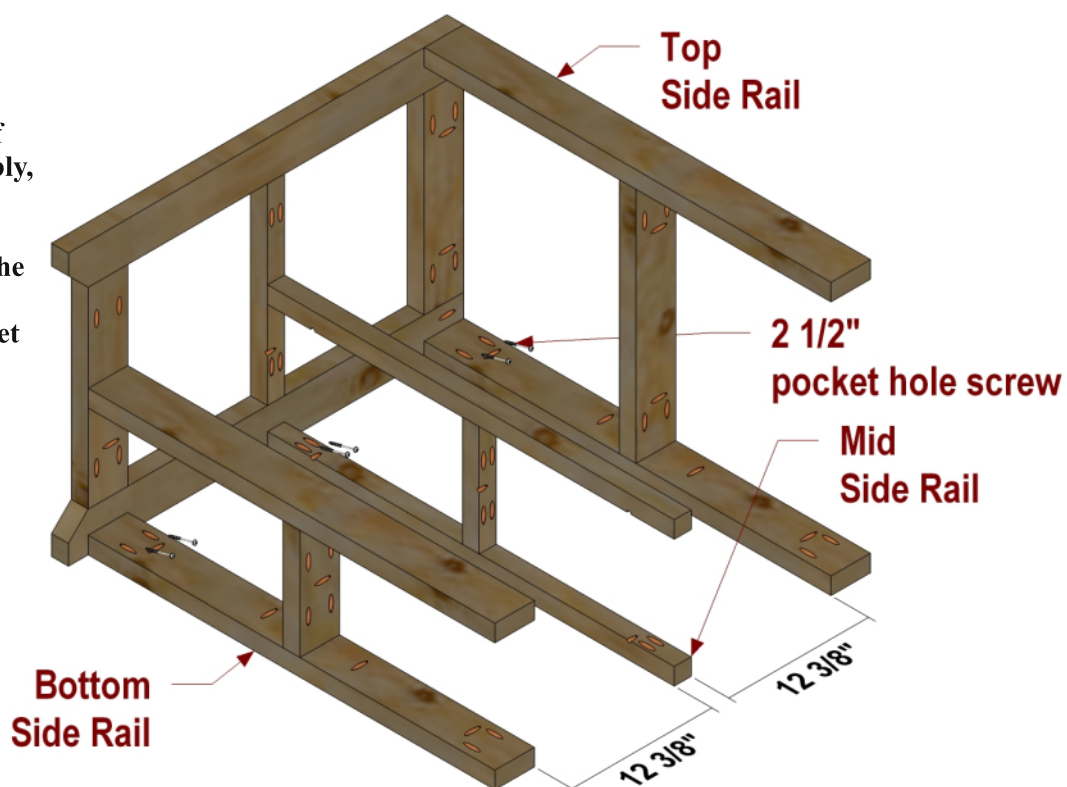


Apply glue to the ends of the Bottom Shelf Stretcher, and position the parts as shown. Attach using 2 1/2" pocket hole screws.



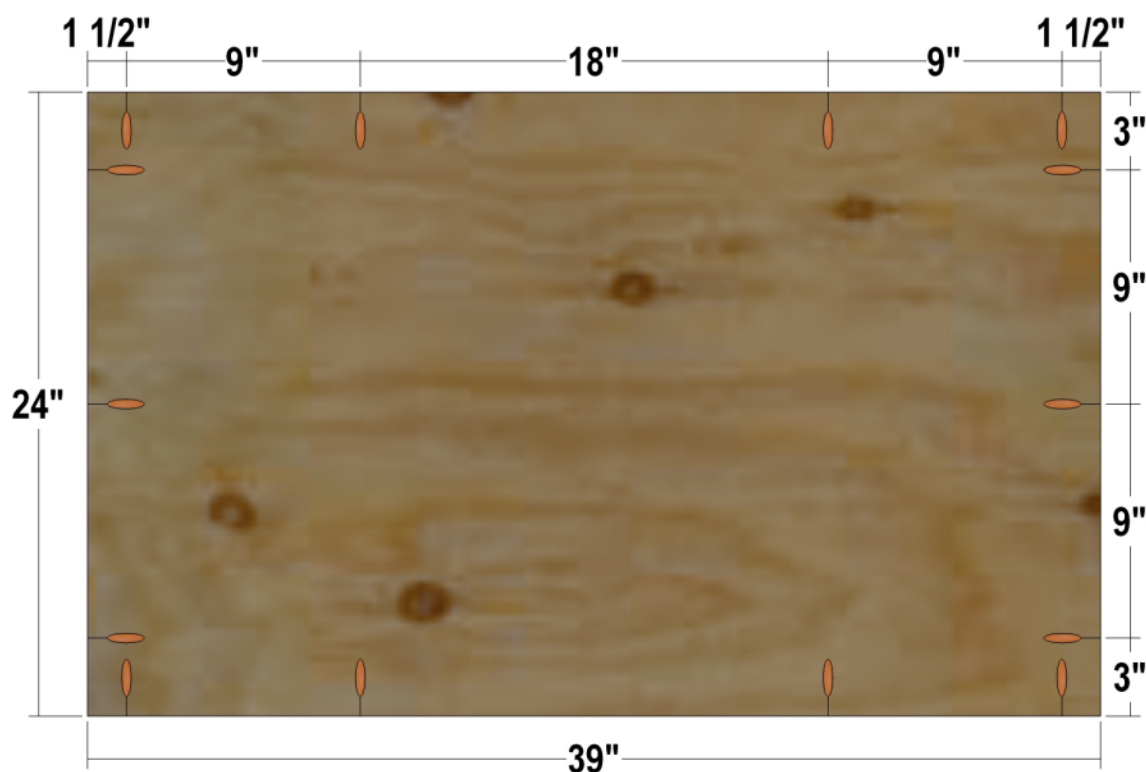


Apply glue to the ends of the Top Side Rail assembly, Mid Side Rail assembly, and Bottom Side Rail assembly and attach to the End Rail assemblies as shown using 2 1/2" pocket hole screws.

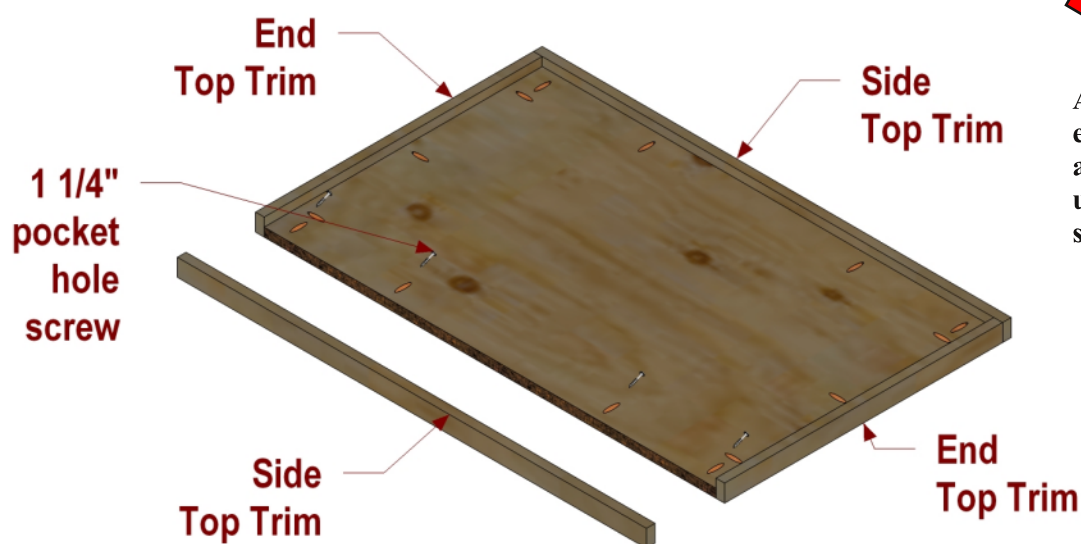


Top

LAYOUT



NOTE Use the layout to create the Top. Set your Kreg Jig and drill bit for 3/4" stock.



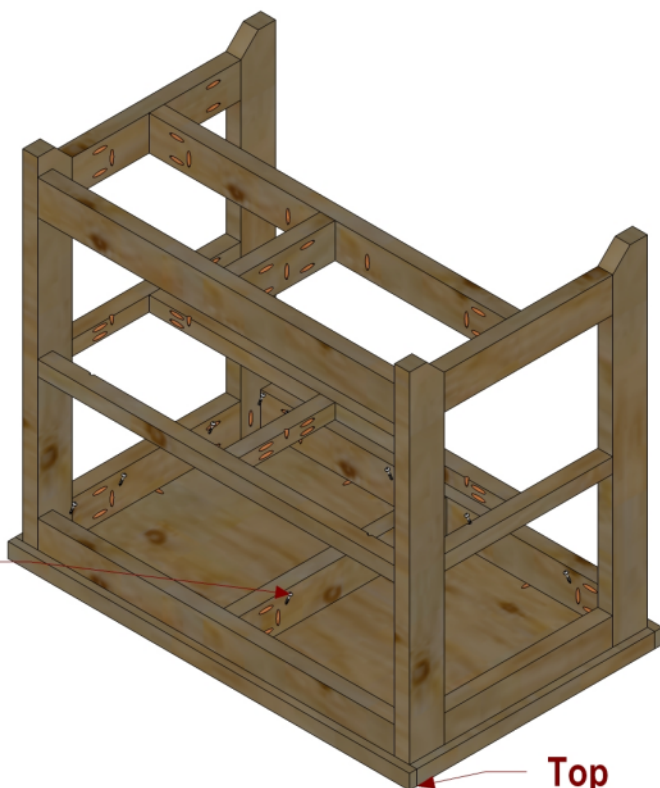
NOTE Apply glue to the ends and edges of the Top and attach the Trim as shown using 1 1/4" pocket hole screws.

STORAGE TOOL STAND



Position the base assembly as shown at left, inside the trim of the top assembly and flush against the Top. Attach using 1 1/4" pocket hole screws. Drive screws through the Top End Rails, Top Side Rails, Top Stretcher, and Legs and into the Top.

1 1/4"
pocket
hole
screw



Top
Assembly



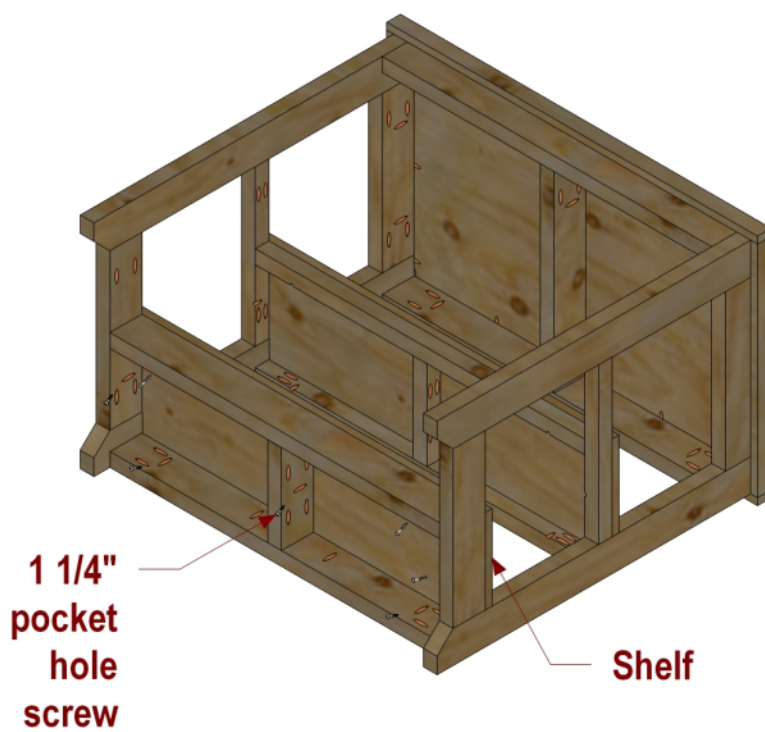
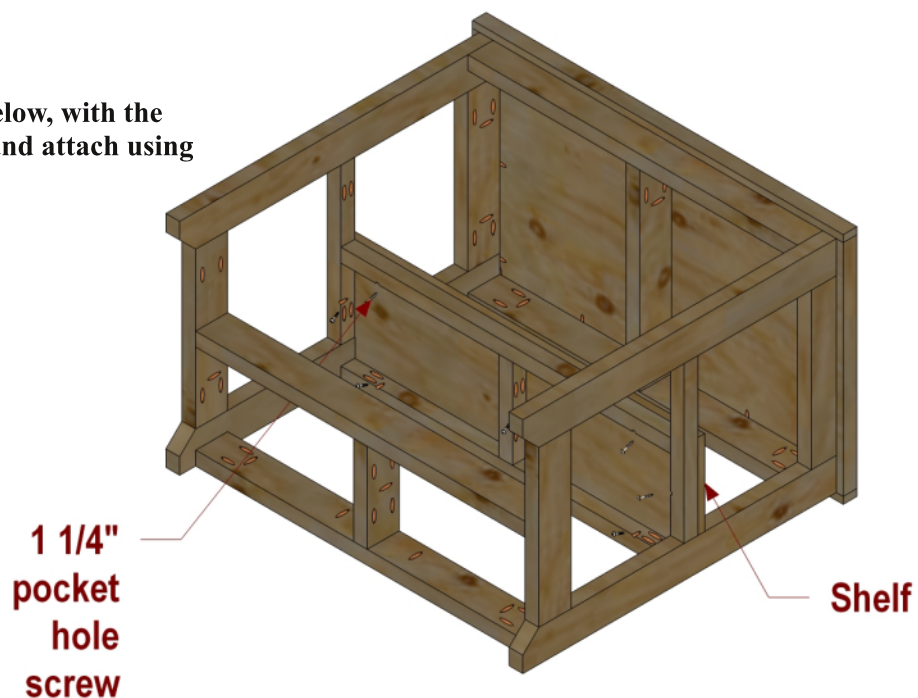
Shelf



Use the layout to create the Shelves. Use a jigsaw to cut out the notches.

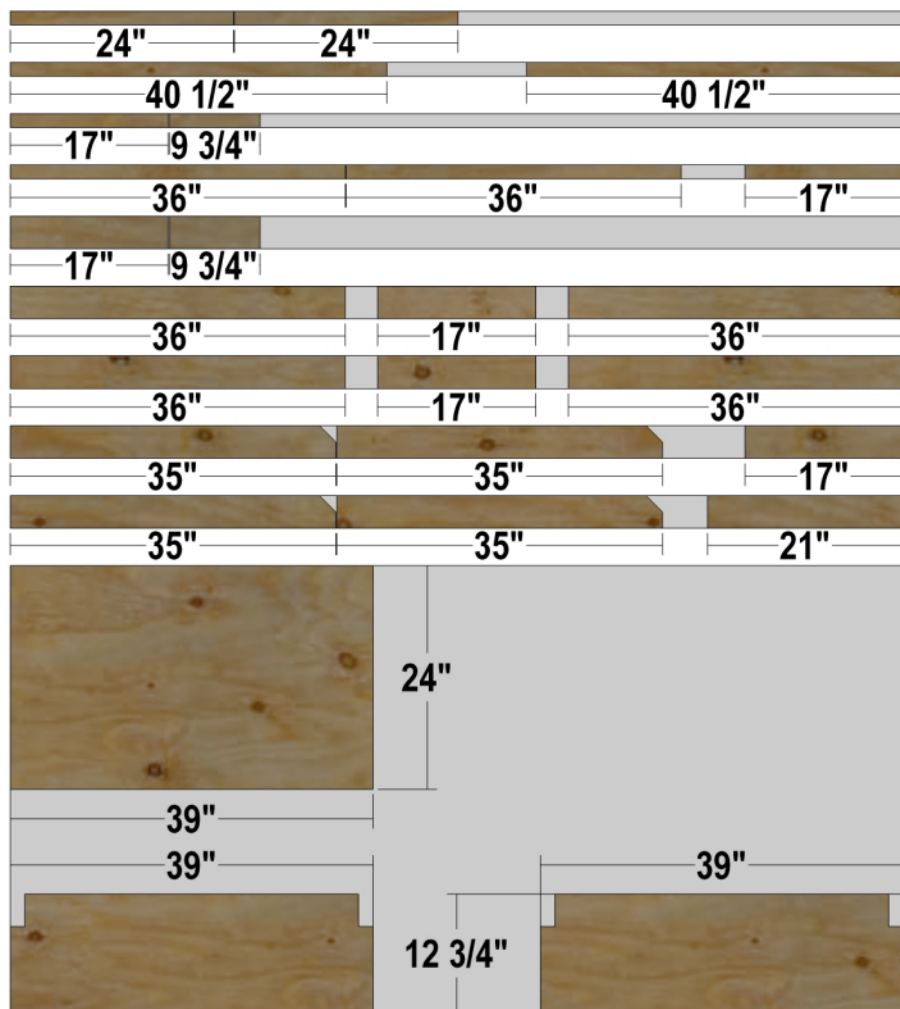
NOTE

Position the Shelves as shown below, with the notches flush against the Legs, and attach using 1 1/4" pocket hole screws.





CUTTING DIAGRAM



1x2x8 (2)

2x2x8 (2)

**2x4x8
(5)**

**3/4" x 4' x 8'
sheet of
plywood**



TAKE CARE!
Follow **ALL SAFETY GUIDELINES AND RECOMMENDATIONS** provided by the manufacturers of your tools, and any chemicals such as glue and finishes you use in this project. **YOU are responsible for your safety, so use common sense when working in the shop!**

PARTS

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