

CHIEF'S SHOP PLAN OF THE WEEK

SIMPLE WOODWORKING: TOOL STAND



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 last page of this plan document.

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.

WHAT YOU'LL NEED



LUMBER

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

HARDWARE/SUPPLIES

2 1/2" pocket hole screws
2 1/2" deck screws
1 1/4" deck screws
wood glue

TOOLS

miter saw
circular saw w/Kreg Rip Cut
jig saw
drill/driver
Kreg Pocket Hole Jig
power sander
clamps
square

PARTS

Legs (4) - 1 1/2 x 3 1/2 x 35 1/2
Top End Rails (2)
- 1 1/2 x 3 1/2 x 11 15/16
Bottom End Rails (2)
- 1 1/2 x 3 1/2 x 21 1/8
Side Rails (4) - 1 1/2 x 3 1/2 x 24
Bottom Shelf (1)
- 3/4 x 27 x 26 11/16
Top (2) - 3/4 x 28 1/2 x 28 1/2
Short Trim (2) - 3/4 x 1 1/2 x 28 1/2
Long Trim (2) - 3/4 x 1 1/2 x 30
Top Supports (2)
- 1 1/2 x 3 1/2 x 4 1/2

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.

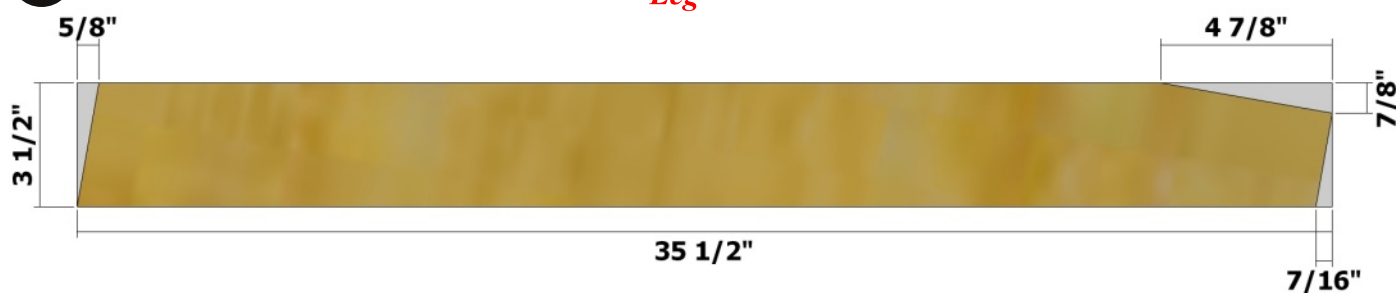


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 LAYOUT

Leg



 NOTE

Use the layout as a guide for measuring, marking, and cutting the **Legs**. Each angle is 10 degrees.

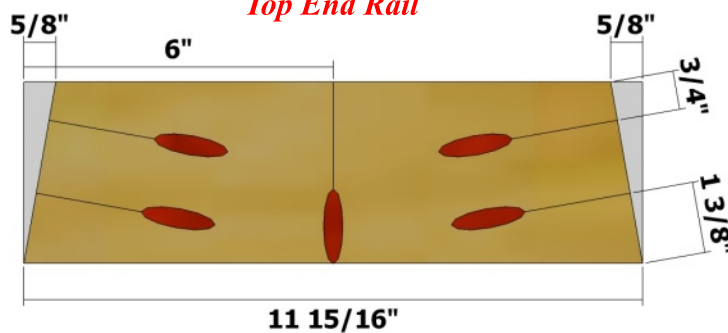


TAKE CARE!

This **Leg** length will create a **Tool Stand** with a height of 36". If you need a shorter finished project, reduce the length of the **Leg**. The rest of the project will not be affected by this dimension change.

 LAYOUT

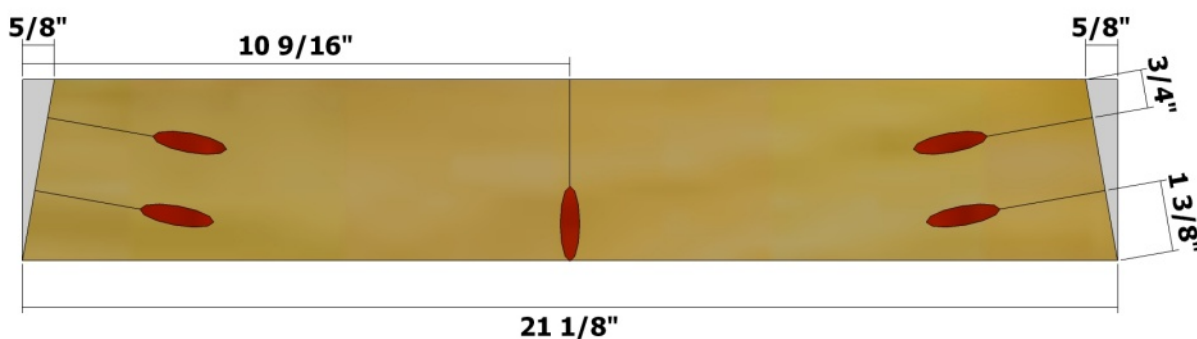
Top End Rail



 NOTE

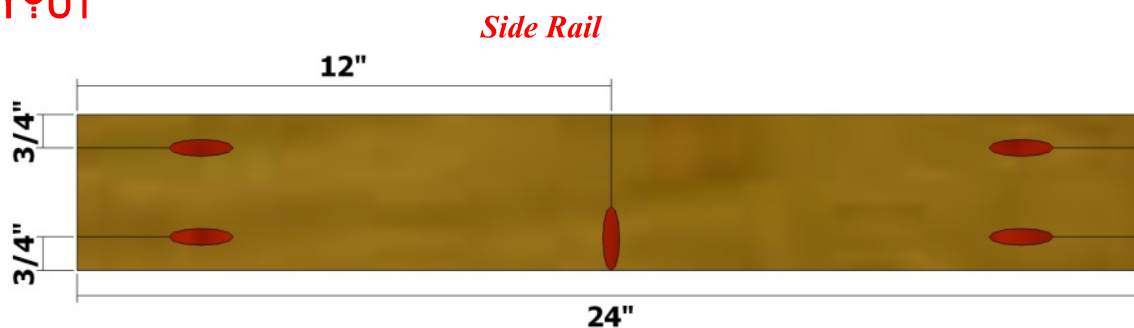
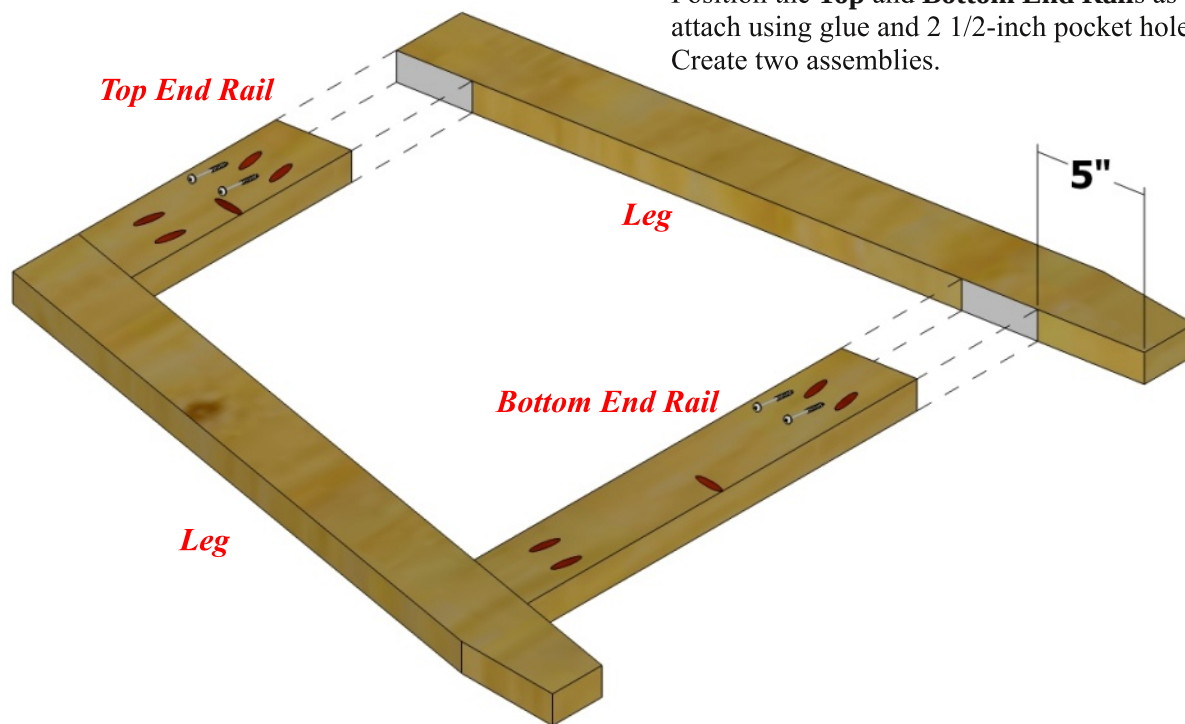
Use the layouts as guides for measuring, marking, cutting, and drilling pocket holes in the **Top End Rail** and **Bottom End Rail**. Each angle is 10 degrees. Be sure to set your Kreg pocket hole jig and drill bit for 1 1/2-inch stock.

Bottom End Rail

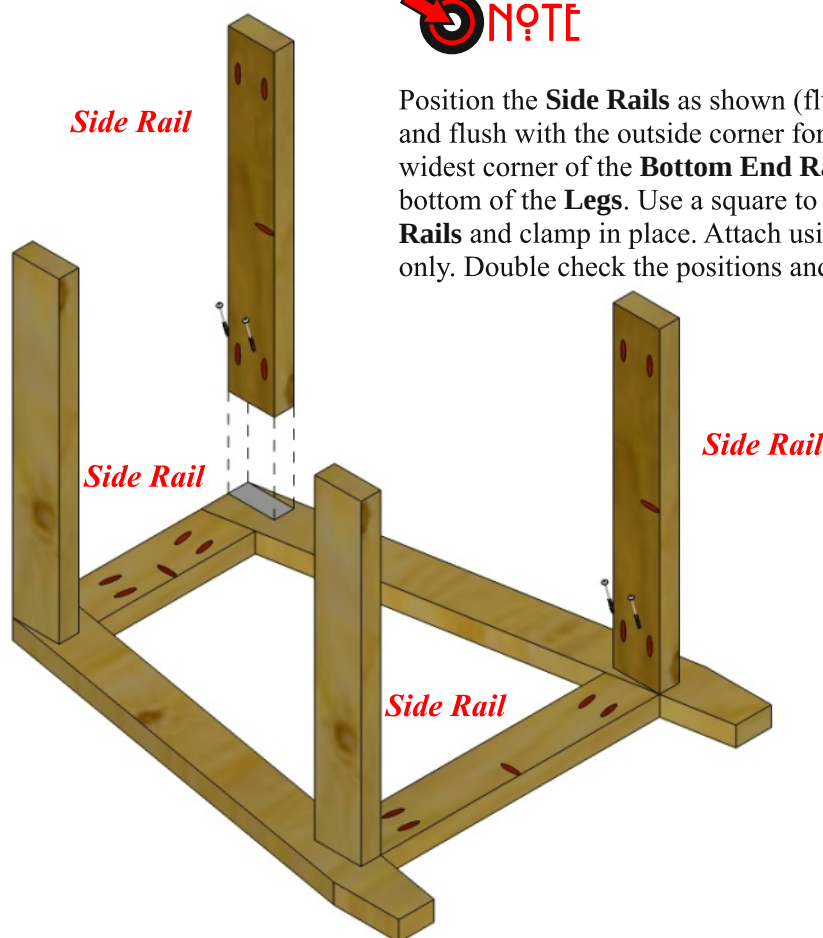




Position the **Top** and **Bottom End Rails** as shown and attach using glue and 2 1/2-inch pocket hole screws. Create two assemblies.



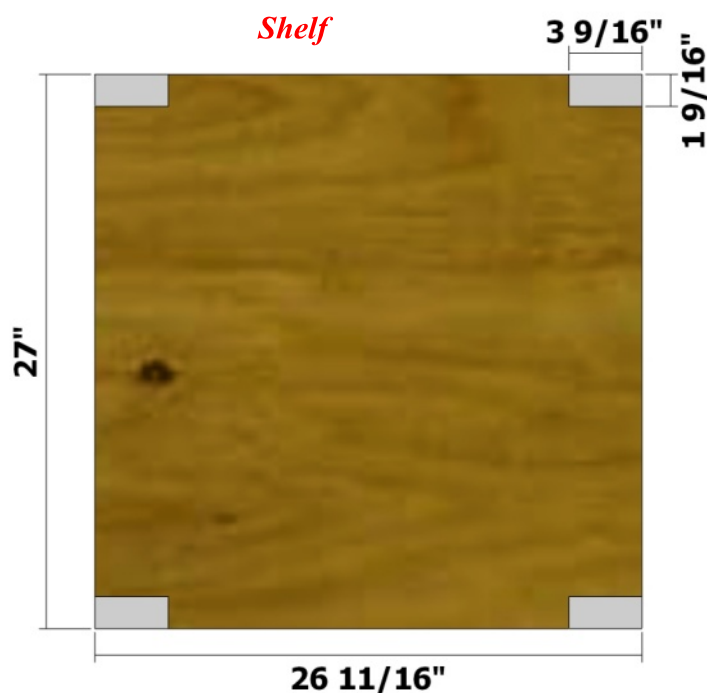
Use the layout as a guide for measuring, marking, cutting, and drilling pocket holes in the **Side Rails**. Be sure to set your Kreg pocket hole jig and drill bit for 1 1/2-inch stock.

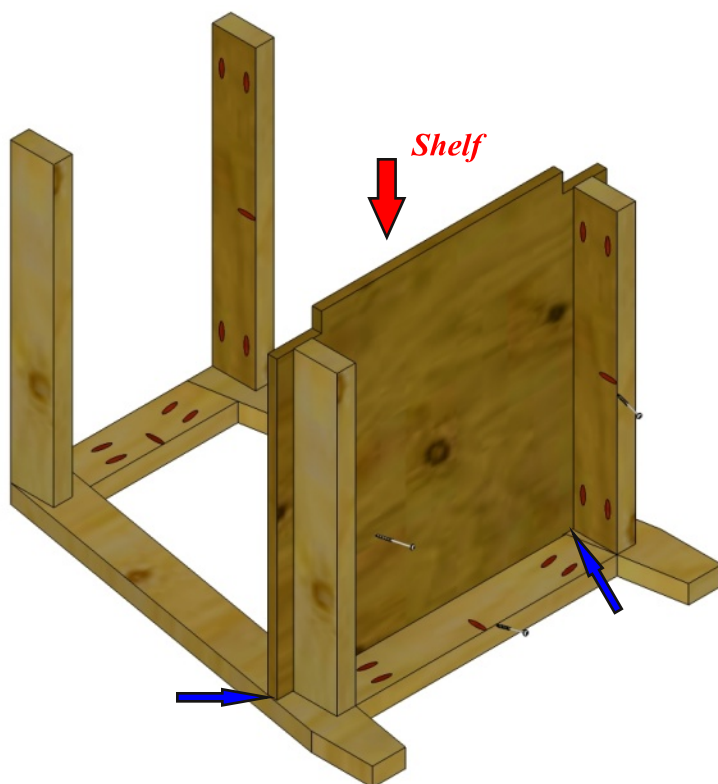


Position the **Side Rails** as shown (flush with the top end of the **Legs** and flush with the outside corner for the top **Side Rails**; flush with the widest corner of the **Bottom End Rail** and perpendicular with the bottom of the **Legs**. Use a square to set up the positions of the **Side Rails** and clamp in place. Attach using 2 1/2-inch pocket hole screws only. Double check the positions and readjust if necessary.



Use the layout as a guide for measuring, marking, and cutting the **Shelf**.



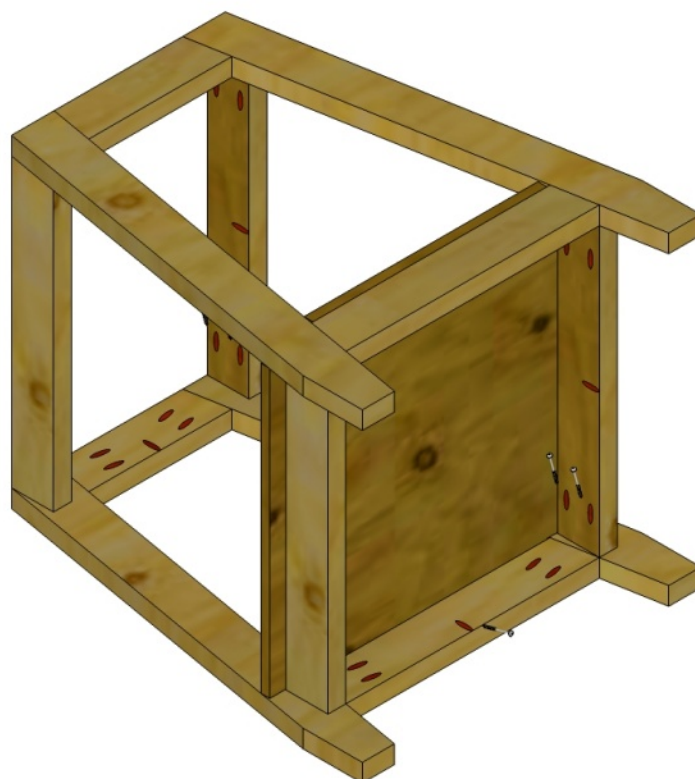


NOTE

With the assembly positioned on an end as shown, insert the narrow side of the **Shelf** into the assembly. Place U.S. nickels (coins) between the edge of the shelf and the **Legs** as spacers (blue arrows). Attach using 2 1/2-inch pocket screws (no glue). You'll only be driving three screws at this point.

NOTE

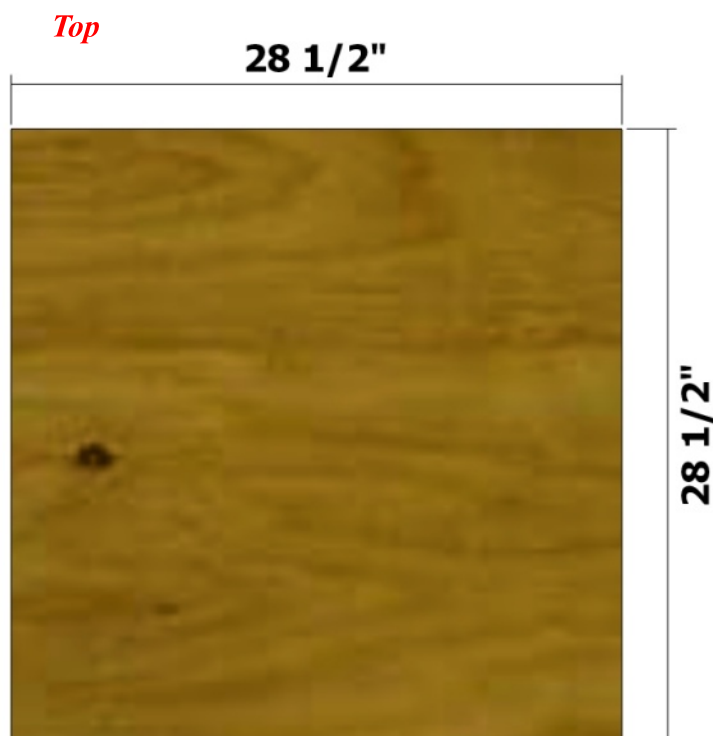
Flip over the assembly and place it onto the other **End Assembly**. Position the **Side Rails** as described on **Page 4**, and attach to the **Legs** using 2 1/2-inch pocket screws. Drive a final screw into the **Bottom End Rail** and into the **Shelf** (this is the missing screw from the step above).



LAYOUT

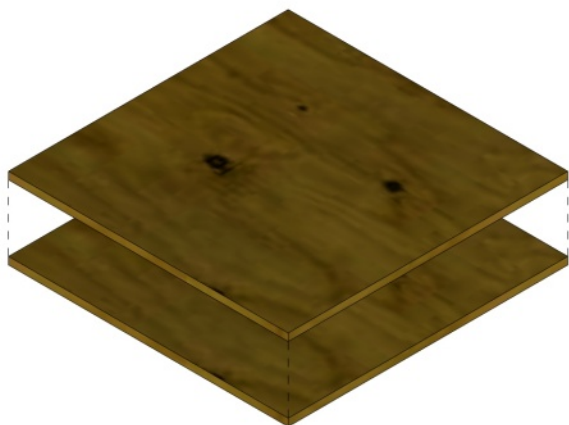
NOTE

Use the layout as a guide for measuring, marking, and cutting the two **Top** parts.



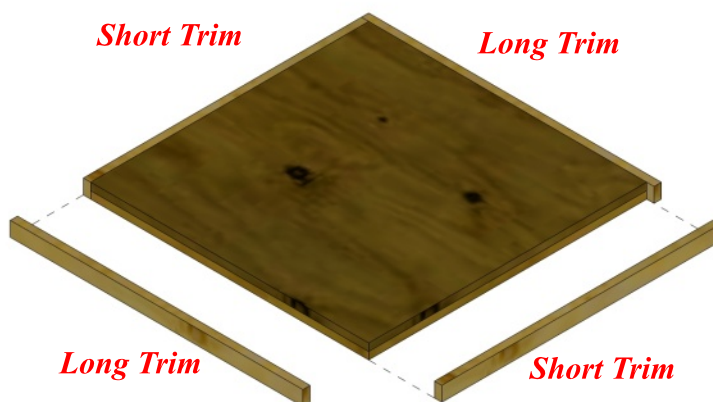
NOTE

Thoroughly apply glue to one face of the **Top** parts (do not apply glue to the better side of the plywood), position the edges flush, add a weight to the center, and clamp the sides. Allow the glue to set.



NOTE

Position the **Short Trim** flush with the edge of the **Top Assembly** and attach using 1 1/4-inch deck screws only. Position the **Long Trim** flush with the ends of the **Short Trim** and attach using 1 1/4-inch deck screws only.

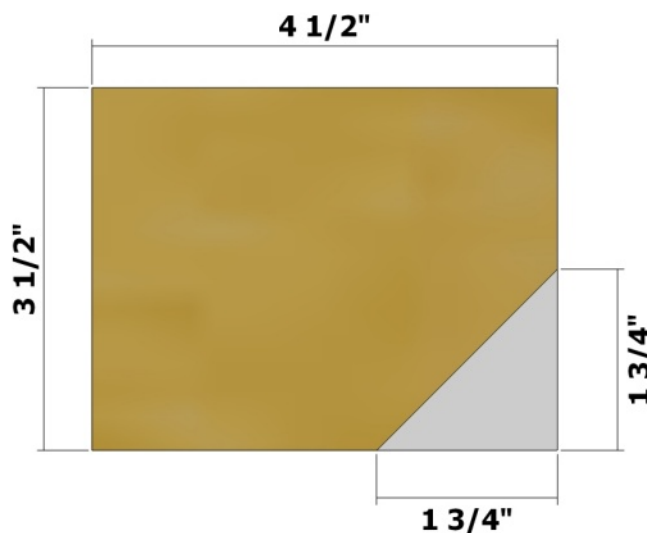


LAYOUT

NOTE

Use the layout as a guide for measuring, marking, and cutting the two **Top Supports**.

Top Support



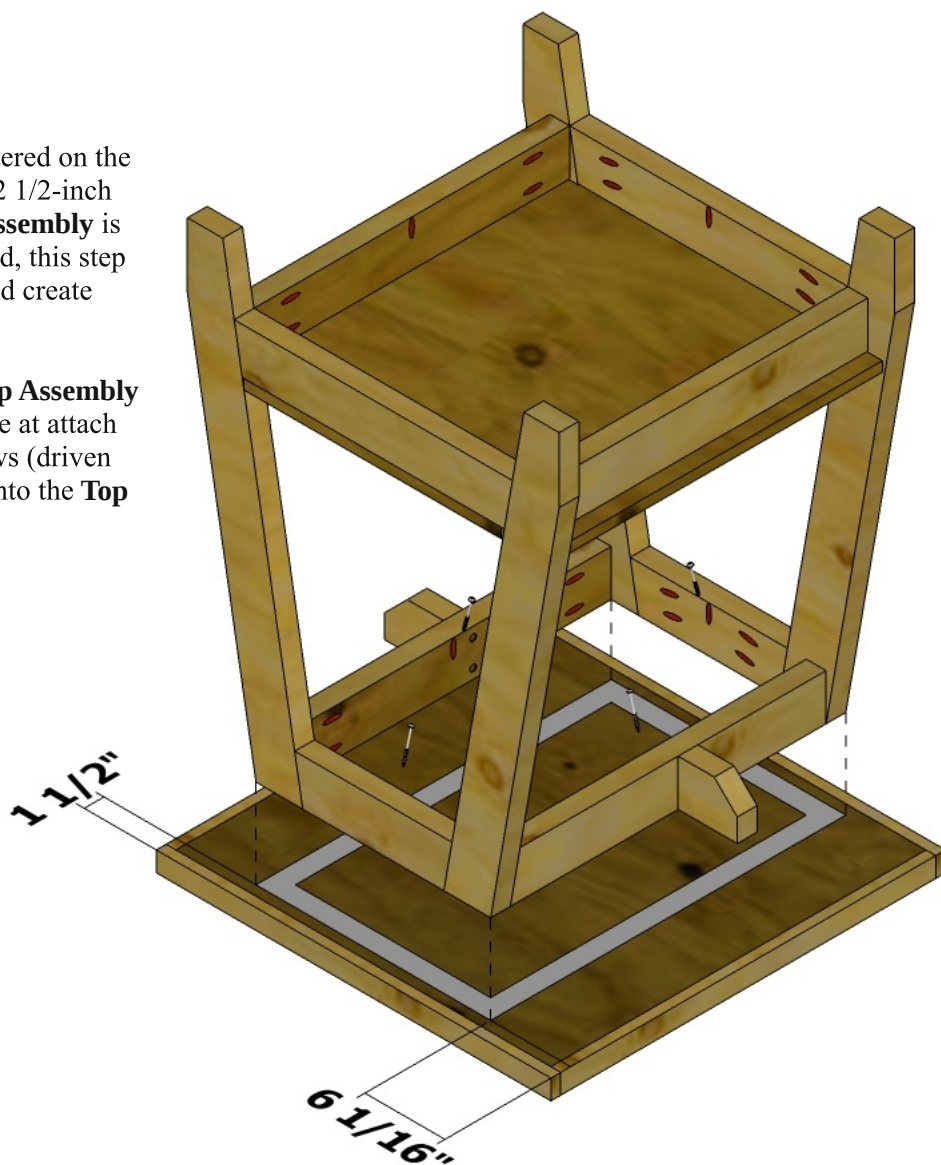
NOTE

Position the **Top Supports** as shown and attach using 1 1/2-inch deck screws only. Be sure to drill countersunk pilot holes for the screws.

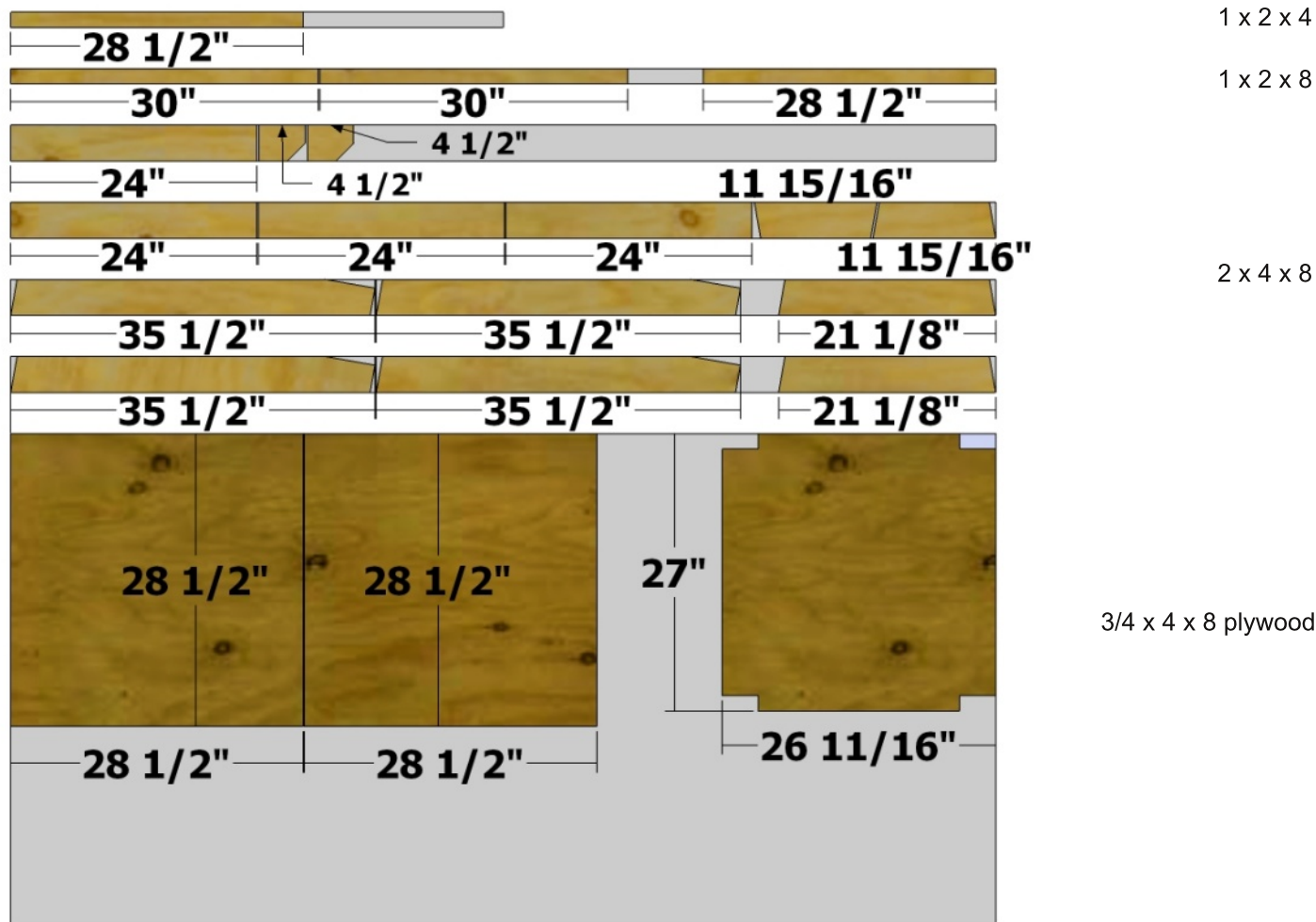
NOTE

Position the **Base Assembly** centered on the **Top Assembly** and attach using 2 1/2-inch pocket screws only. If the **Top Assembly** is damaged and needs to be replaced, this step allows you to easily remove it and create another one.

There is no need to attach the **Top Assembly** to the **Top Supports**, but feel free to attach them using 2 1/2-inch deck screws (driven through the **Top Assembly** and into the **Top Supports**) if desired.



K CUTTING DIAGRAM



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

Legs (4) - 1 1/2 x 3 1/2 x 35 1/2
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