

CHIEF'S SHOP PLAN OF THE WEEK



SIMPLE WOODWORKING: ASSEMBLY BENCH



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.



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WHAT YOU'LL NEED



LUMBER

4 - 1 x 2 x 6
2 - 1 x 2 x 8
8 - 2 x 4 x 8
2 - 2 x 6 x 8
3 - 3/4 x 4 x 8
sheets of plywood
(availability will vary)

HARDWARE/SUPPLIES

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

TOOLS

table saw or circular saw
with Kre Rip-Cut Jig
miter saw
jigsaw or bandsaw
sander
pneumatic nailer/hammer
drill/driver
Kreg Pocket Hole Jig
clamps
square
compass
long metal ruler

PARTS

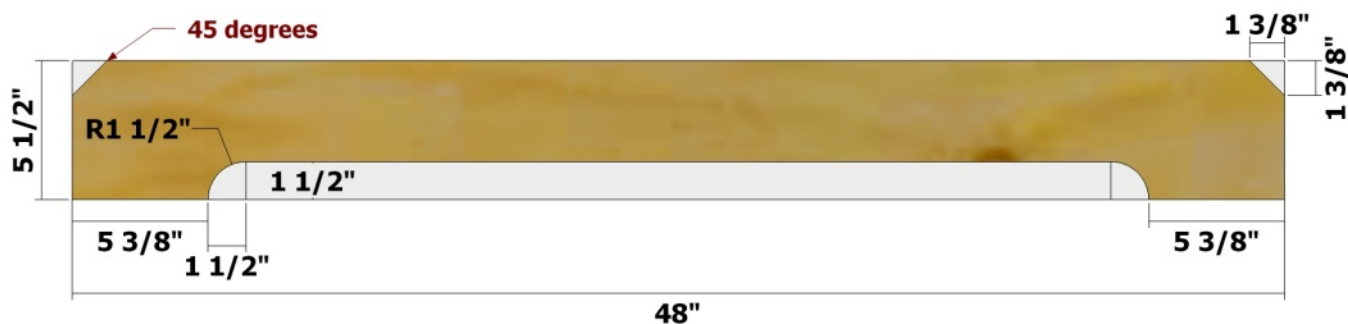
Feet (2) - 1 1/2 x 5 1/2 x 48*
Legs (4) - 1 1/2 x 3 1/2 x 21 1/2
Top End Rail (2) - 1 1/2 x 3 1/2 x 38 1/4*
Bottom End Rail (2) - 1 1/2 x 3 1/2 x 38 1/4*
Top Stretcher (1) - 1 1/2 x 3 1/2 x 40 1/4
Top Side Rail (2) - 1 1/2 x 3 1/2 x 64 1/4
Bottom Stretcher (1) - 1 1/2 x 3 1/2 x 40 1/4
Bottom Side Rail (2) - 1 1/2 x 3 1/2 x 64 1/4
Bottom (1) - 3/4 x 43 3/4 x 64 1/4
Posts (2) - 1 1/2 x 3 1/2 x 18 1/4
Cleat (1) - 1 1/2 x 3 1/2 x 40 1/4
Dividers (2) - 3/4 x 21 3/4 x 40 1/4
Dividers (2) - 3/4 x 21 3/4 x 40 1/4
Top (2) - 3/4 x 48* x 72
Bottom Trim (2) - 3/4 x 21 3/4 x 64 1/4
End Trim (2) - 3/4 x 21 3/4 x 48*
Side Trim (2) - 3/4 x 21 3/4 x 73 1/2

*may vary due to plywood width

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.

LAYOUT

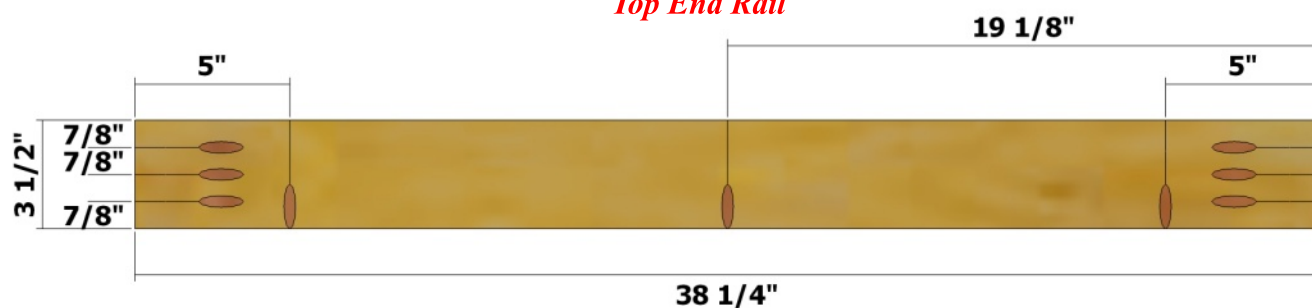
Foot



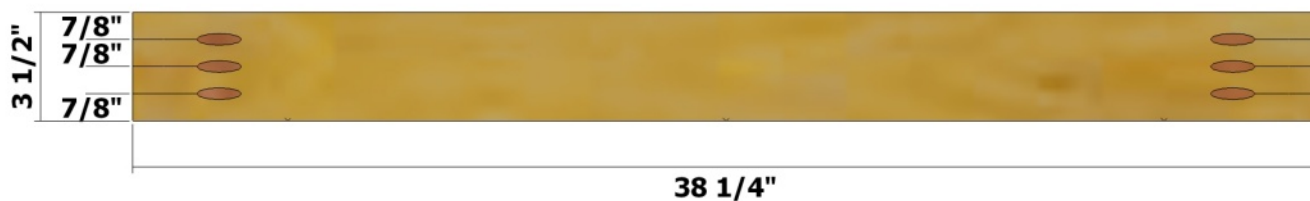
Leg



Top End Rail

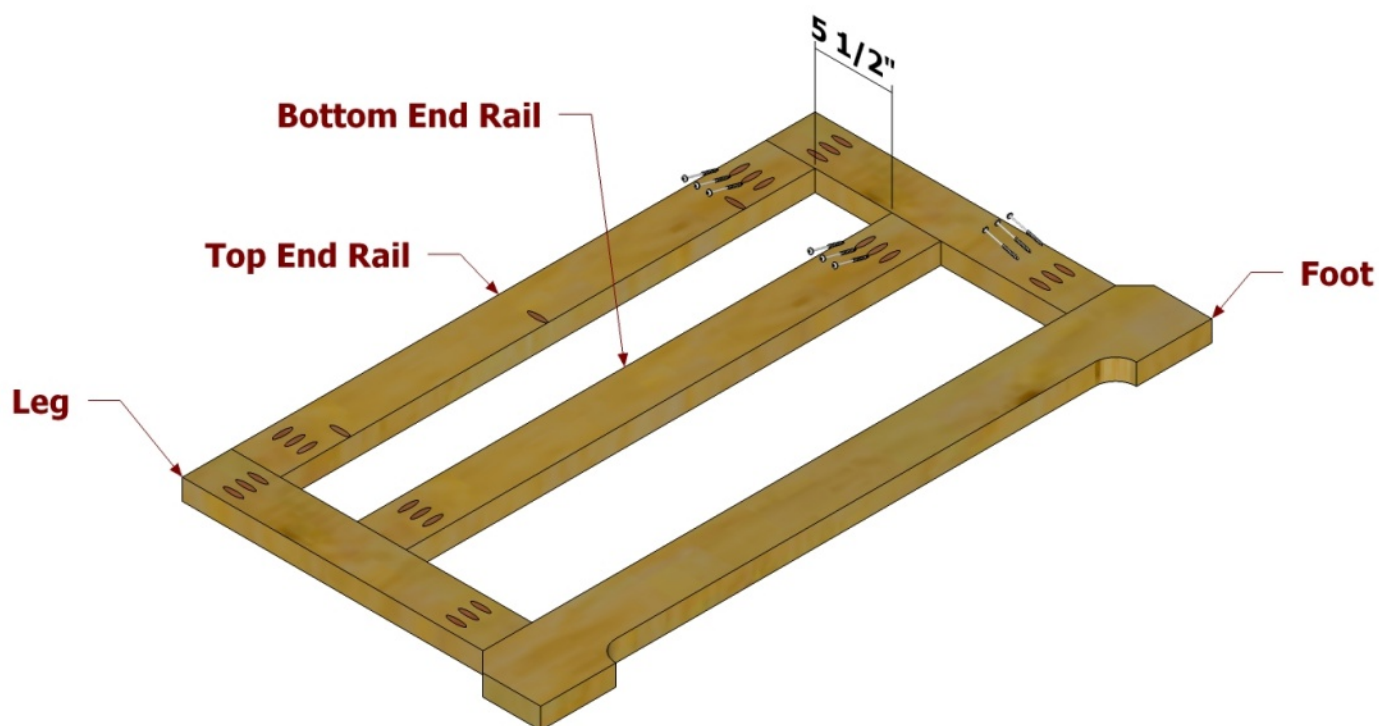


Bottom End Rail

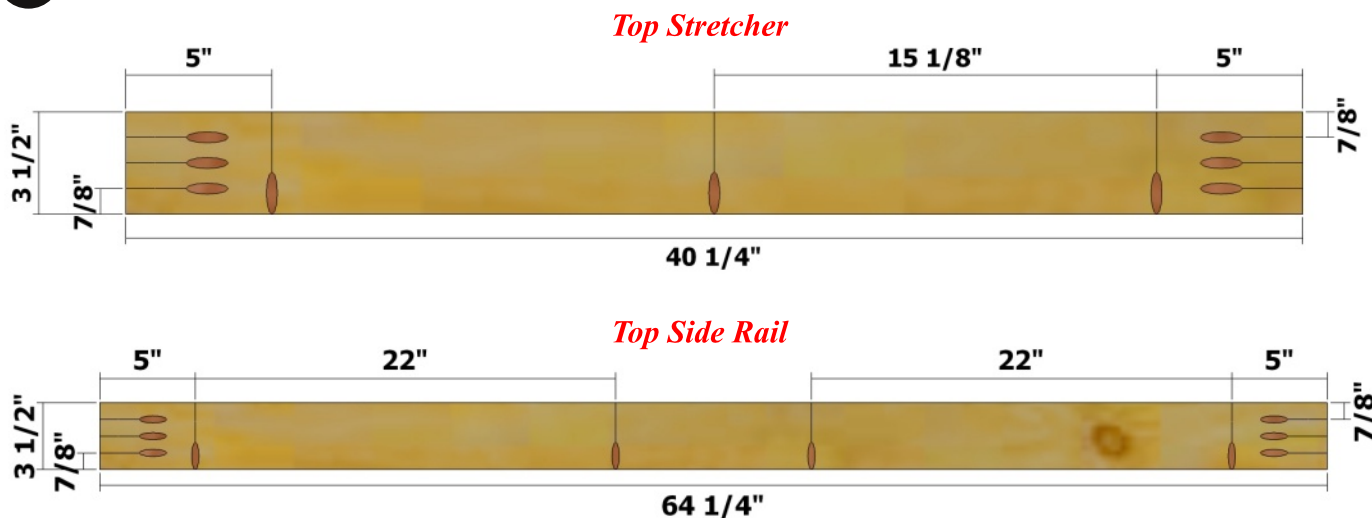


NOTE

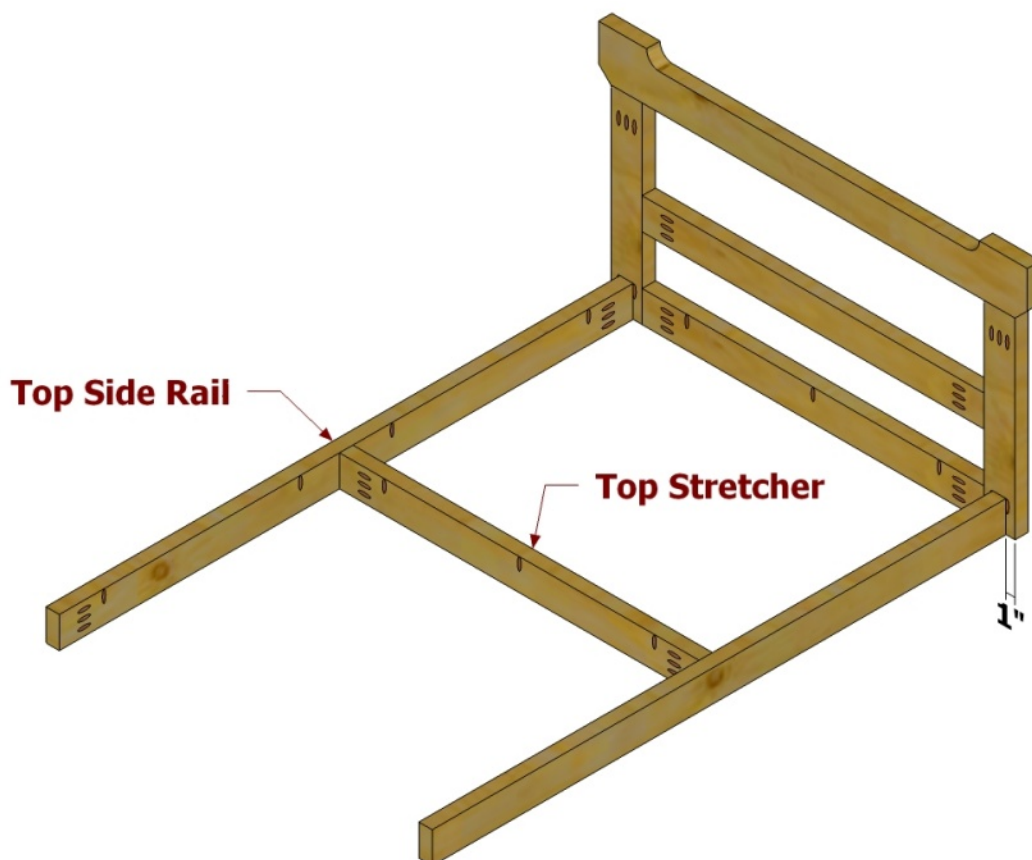
Use the layouts as guides for measuring, marking, and cutting the **Feet** and measuring, marking, cutting, and drilling pocket holes in the **Legs**, **Top End Rails**, and **Bottom End Rails**.
Be sure to set your pocket hole jig and drill bit for 1 1/2-inch stock.



Position the parts as shown above and attach using glue and 2 1/2-inch pocket hole screws. Create two assemblies.



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

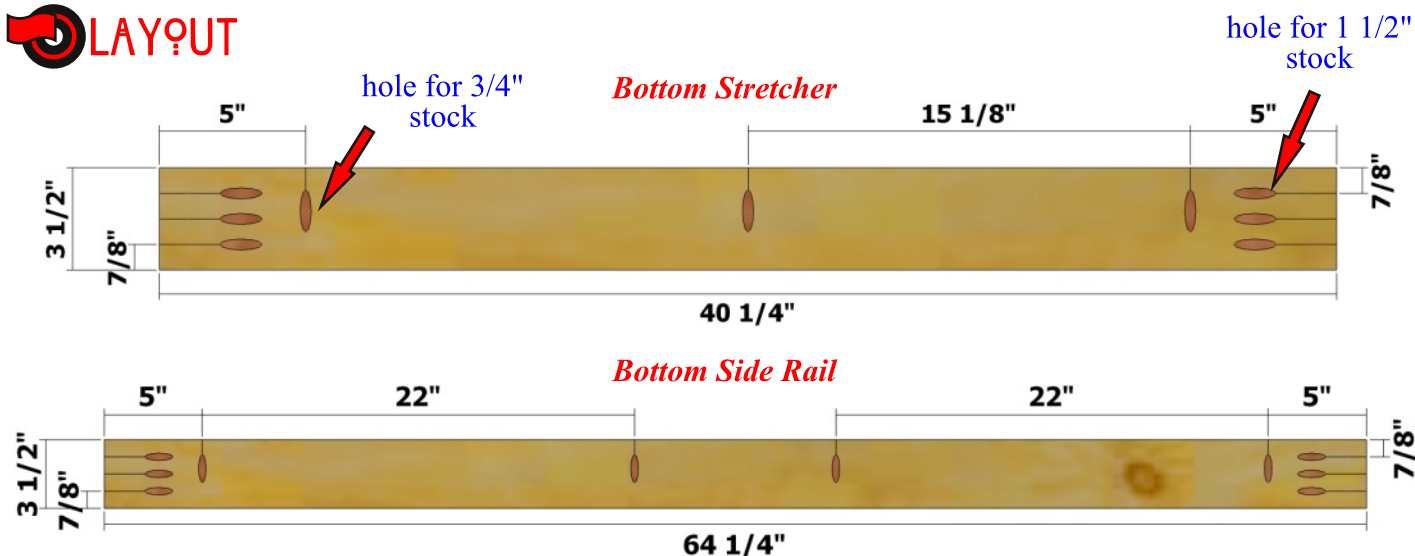


NOTE

Position the parts as shown above and attach using glue and 2 1/2-inch pocket hole screws.



LAYOUT

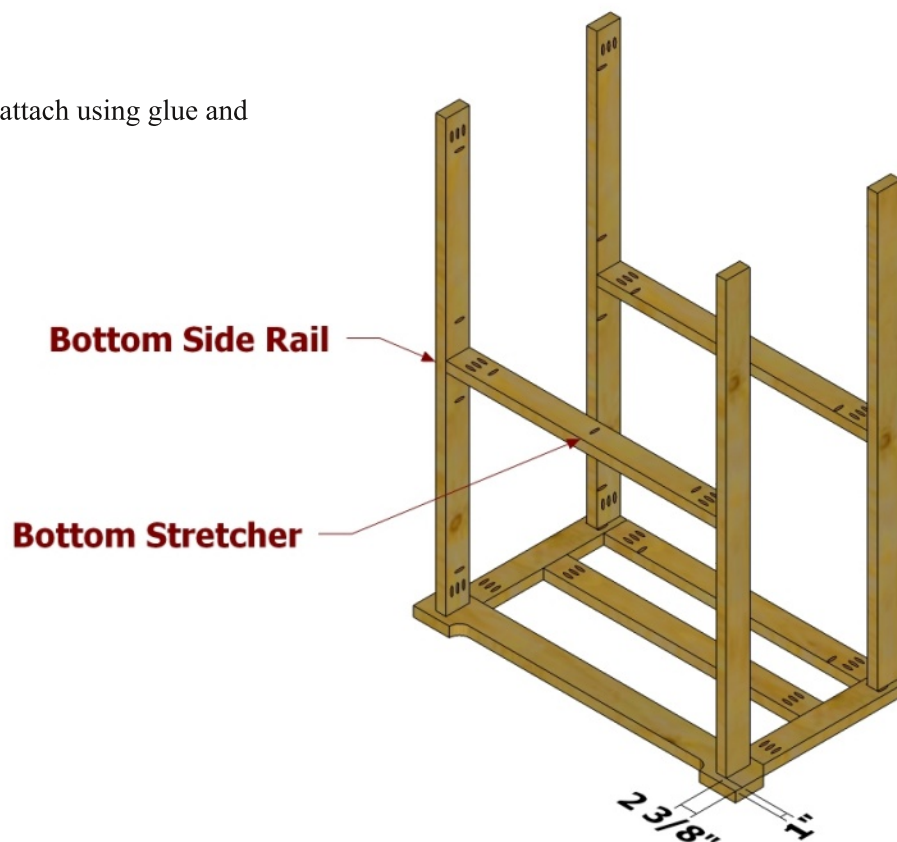


NOTE

Use the layouts as guides for measuring, marking, cutting, and drilling pocket holes in the **Bottom Stretcher** and **Bottom Side Rails**. Be sure to set your pocket hole jig and drill bit for 1 1/2-inch stock for the end holes, and 3/4-inch stock for the side holes.

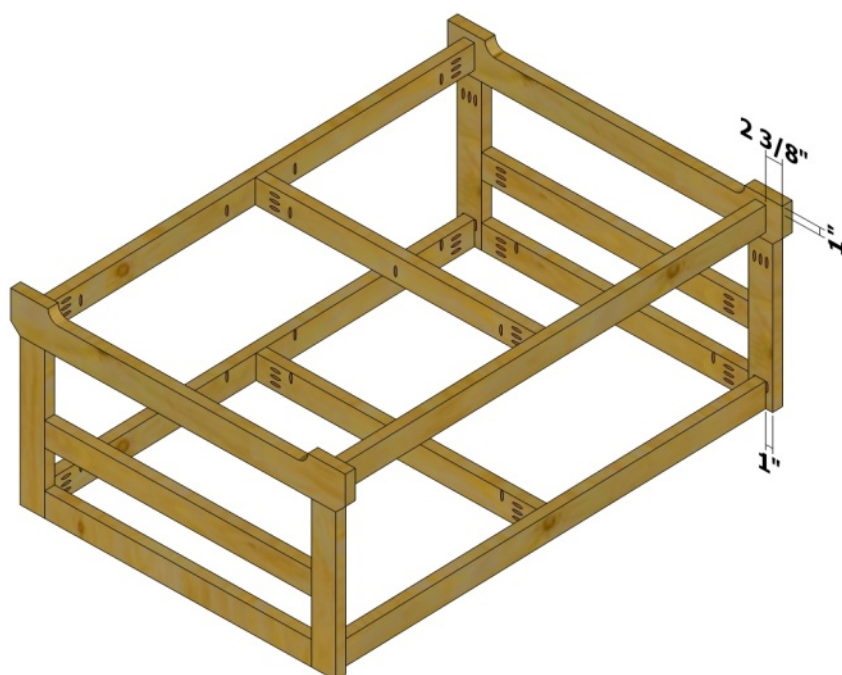
NOTE

Position the parts as shown at right and attach using glue and 2 1/2-inch pocket hole screws.



NOTE

Position the parts as shown at left and attach using glue and 2 1/2-inch pocket hole screws.



If you plan to store very heavy items on the **Bottom**, add a cleat to the **Feet** for extra support.

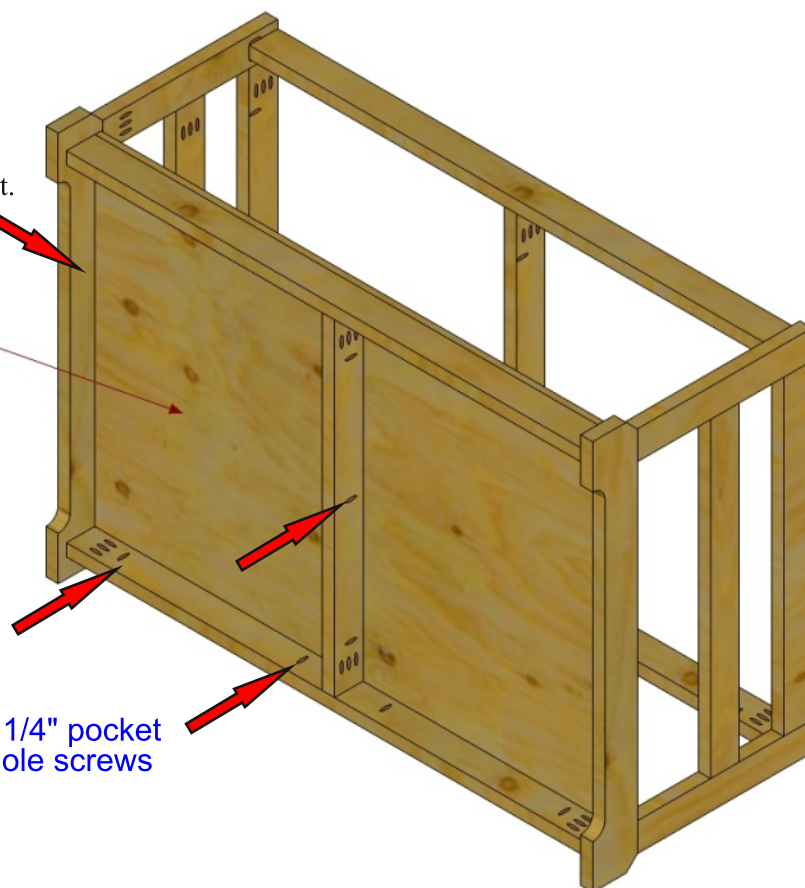
Bottom



NOTE

Position the **Bottom** as shown at right and attach using glue and 1 1/4-inch pocket hole screws.

1 1/4" pocket
hole screws



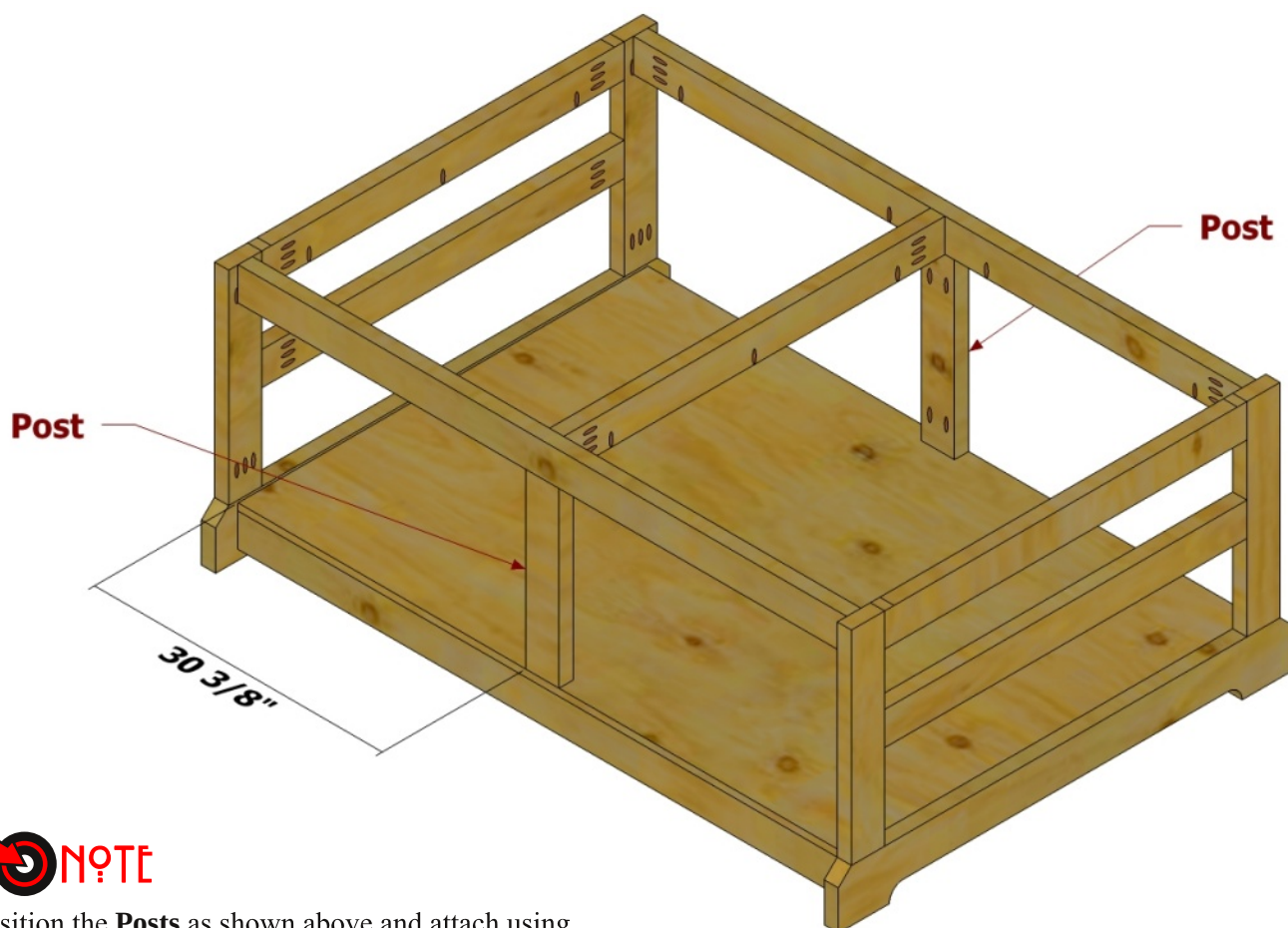
LAYOUT

Post



NOTE

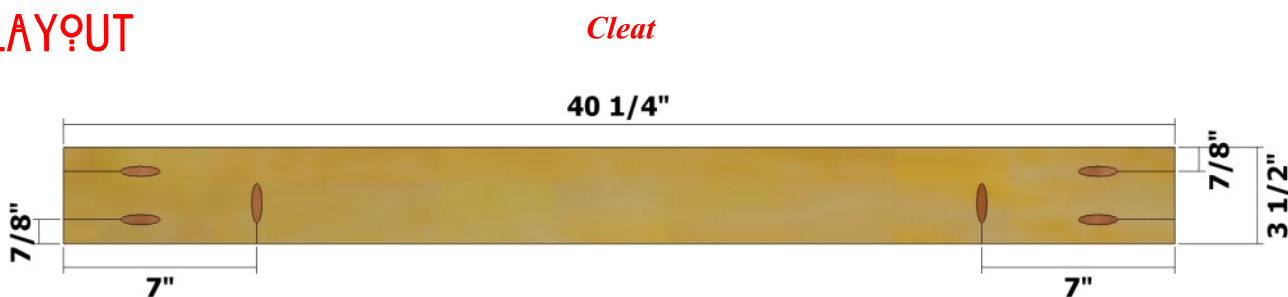
Use the layout as a guide for measuring, marking, cutting, and drilling pocket holes in the **Posts**. Be sure to set your pocket hole jig and drill bit for 1 1/2-inch stock. **TEST FIT** the **Posts** in their positions (see next page) prior to drilling the pocket holes in case you need to adjust their length.



NOTE

Position the **Posts** as shown above and attach using glue and 2 1/2-inch pocket hole screws.

LAYOUT



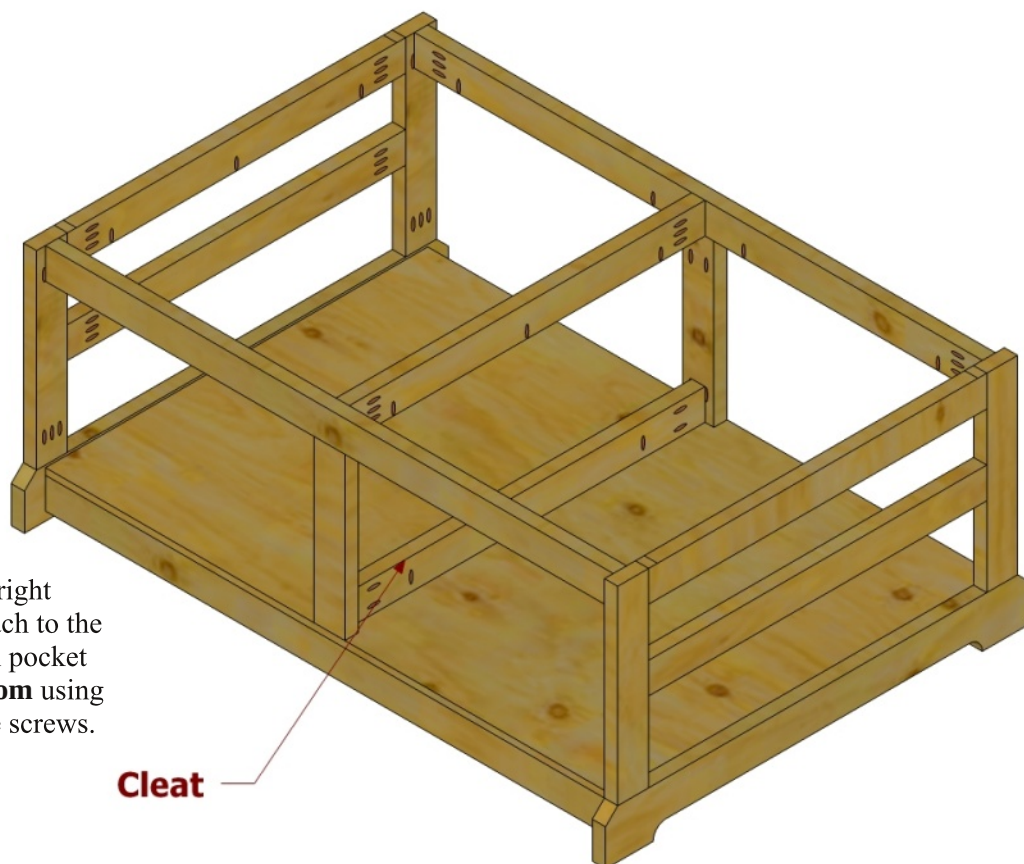
NOTE

Use the layout as a guide for measuring, marking, cutting, and drilling pocket holes in the **Cleat**. Be sure to set your pocket hole jig and drill bit for 1 1/2-inch stock on the ends and 3/4-inch stock on the sides.



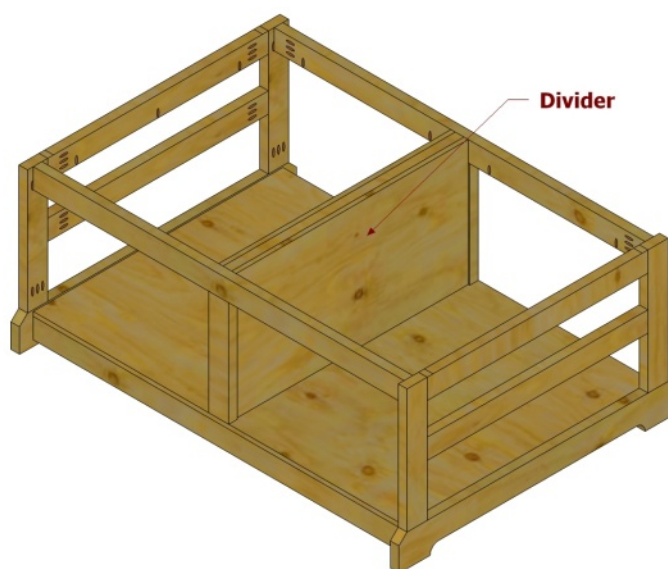
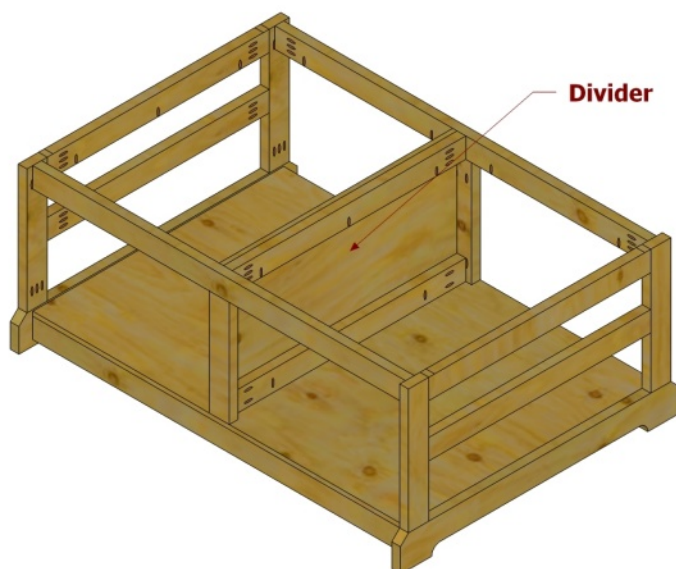
NOTE

Position the **Cleat** as shown at right (centered on the **Posts**) and attach to the **Posts** using glue and 2 1/2-inch pocket hole screws. Attach to the **Bottom** using glue and 1 1/4-inch pocket hole screws.



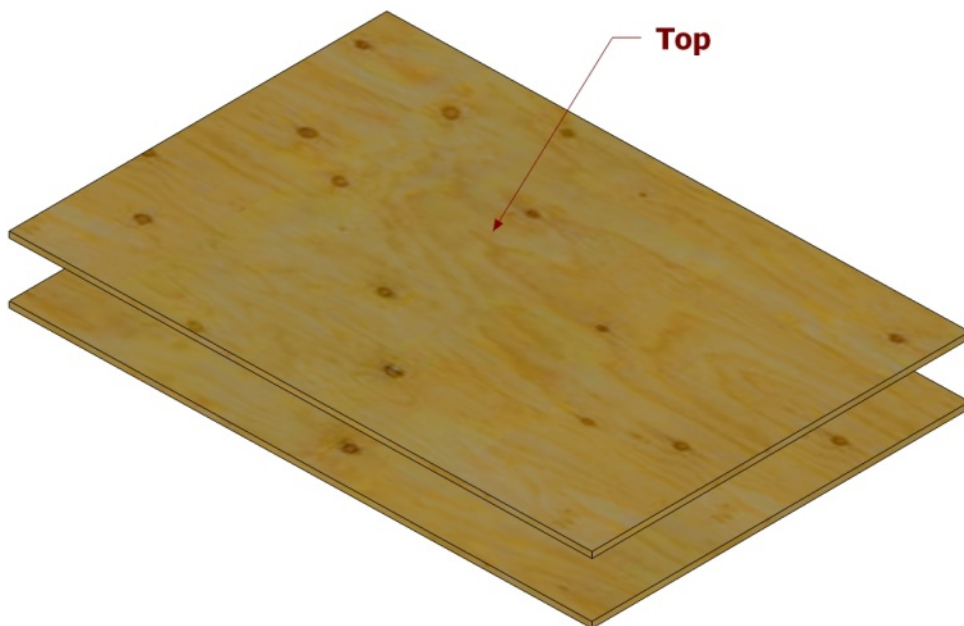
NOTE

Position the **Dividers** as shown below and attach to the **Cleat** and **Top Stretcher** using glue and 1 1/2-inch brads.



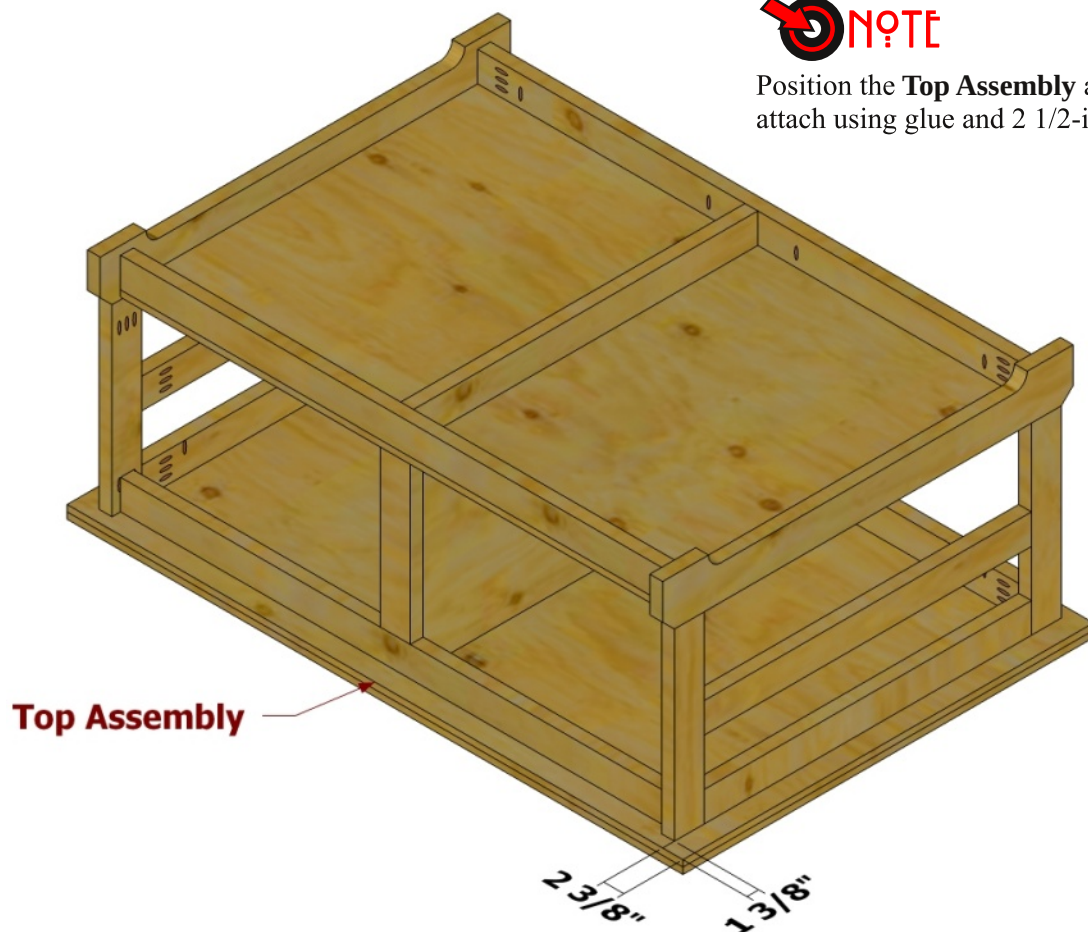
NOTE

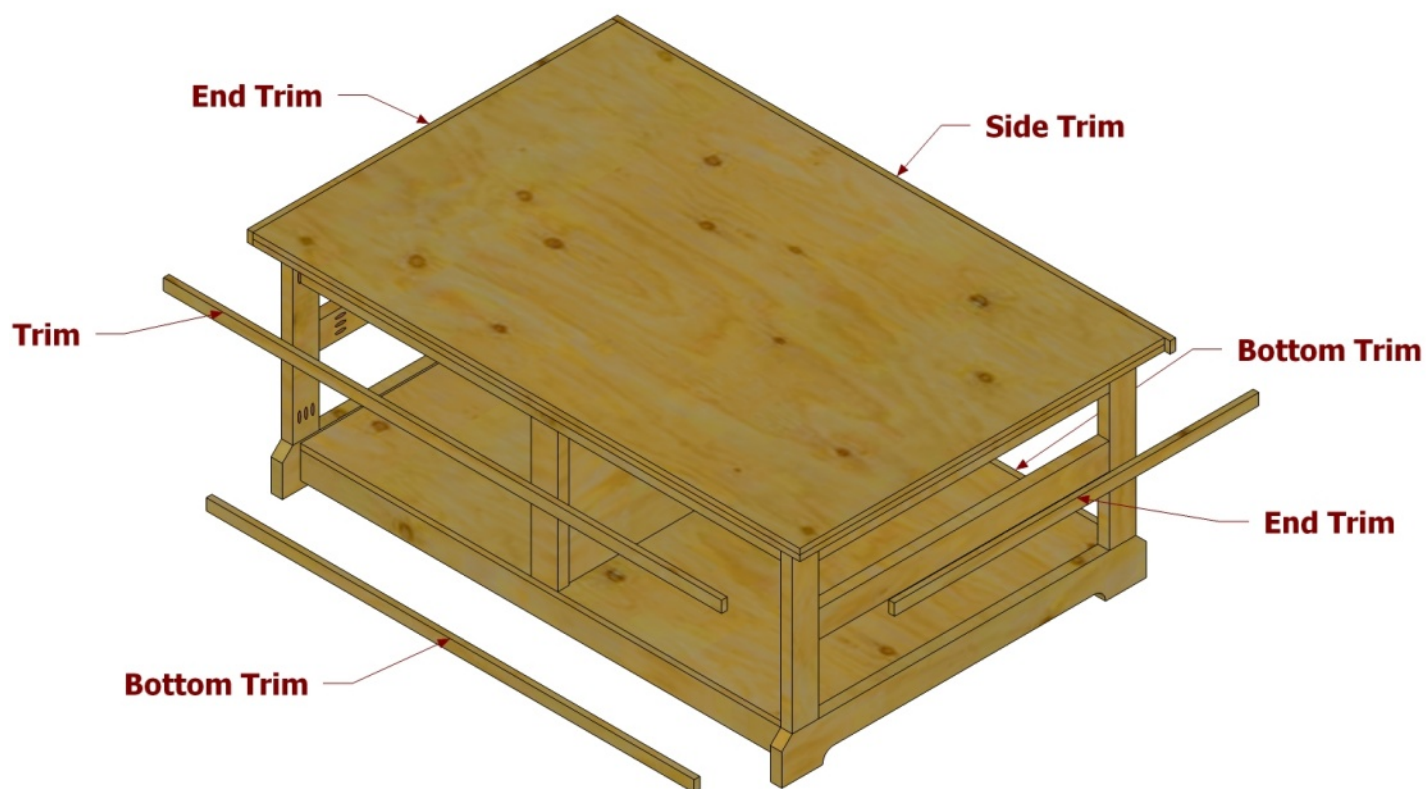
Position the **Top** parts as shown at right, apply glue to two faces, clamp together and attach using 1 1/4-inch brads.



NOTE

Position the **Top Assembly** as shown below and attach using glue and 2 1/2-inch pocket hole screws.



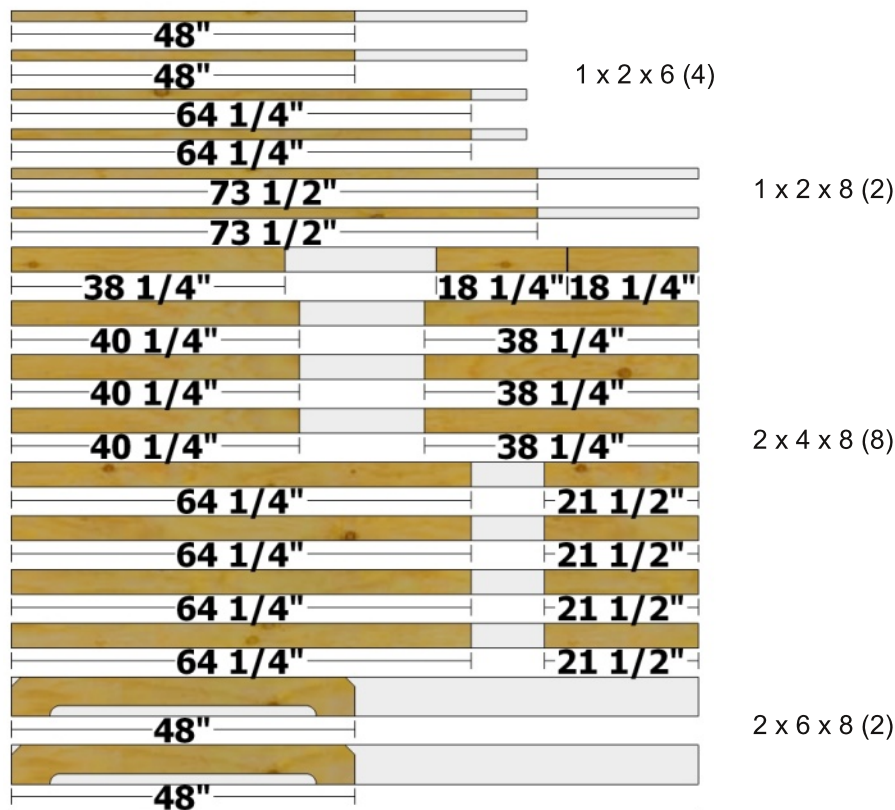


NOTE

Position the **Trim** parts as shown above and attach using glue and 1 1/2-inch brads. Be sure to cut the parts TO FIT after double checking the measurements where they are to be attached. Attach the **End Trim** prior to attaching the **Side Trim**.



CUTTING DIAGRAM



Estimated Lumber Cost
(Pine)
Starting at \$175
(excludes taxes)



Feet (2) - 1 1/2 x 5 1/2 x 48*
Legs (4) - 1 1/2 x 3 1/2 x 21 1/2
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*may vary due to plywood width

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3/4-inch x 4- x 8-foot
sheet of plywood (3)



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!

