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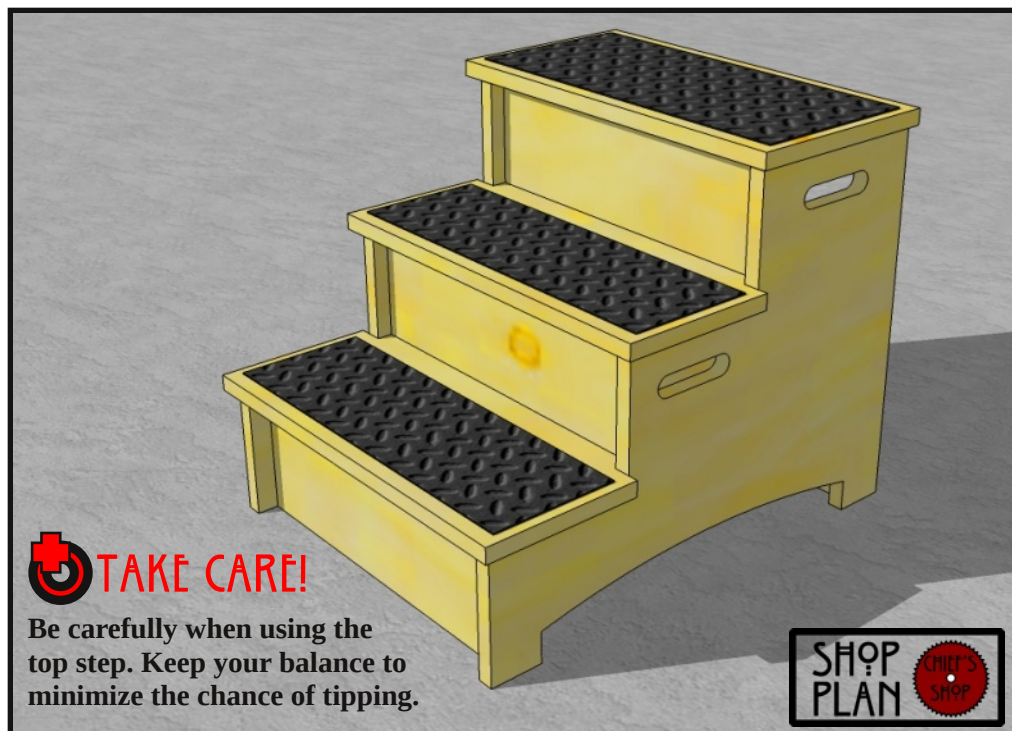
CHIEF'S SHOP

Plan of the Week

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CHIEF'S SHOP PLAN OF THE WEEK

SIMPLE WOODWORKING: SHOP STEPS



WHAT YOU'LL NEED



LUMBER

1 - 3/4 x 4 x 4
sheet of plywood

(availability will vary)

HARDWARE/SUPPLIES

2" wood screws
1 1/4" pocket hole screws
3 self-adhesive rubber
safety step treads
wood glue

TOOLS

table saw or circular saw
with Kreg Rip-Cut
miter saw
jig saw
drill/driver
1-inch Forstner
or spade bit
Kreg Pocket Hole Jig
clamps
square
compass
flexible metal ruler or thin
strip of scrap wood



TAKE CARE!

Be carefully when using the top step. Keep your balance to minimize the chance of tipping.



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 Parts Diagram page, which is the next to 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.



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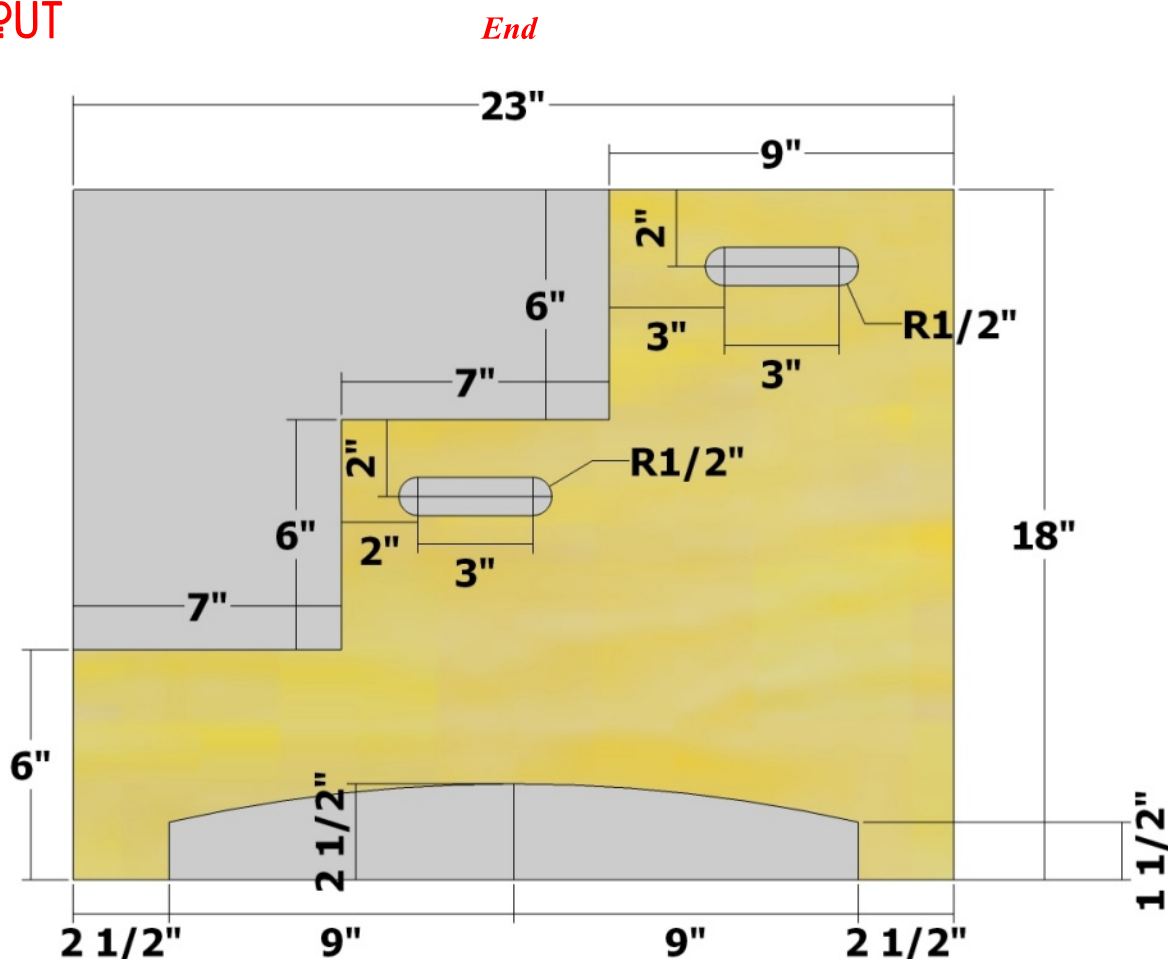
PARTS

Ends (2) - 3/4" x 23 x 18
Bottom Riser (1) - 3/4" x 6 x 16 1/2
Back Rail (1) - 3/4" x 2 1/2 x 16 1/2
Bottom Step (1) - 3/4" x 19 x 23 1/2
Mid Riser (1) - 3/4" x 5 1/4" x 16 1/2
Mid Step (1) - 3/4" x 19 x 16 1/2
Top Riser (1) - 3/4" x 5 1/4" x 16 1/2
Top Step (1) - 3/4" x 19 x 9 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.

Plywood thickness will vary, so adjust dimensions accordingly.*

 LAYOUT



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

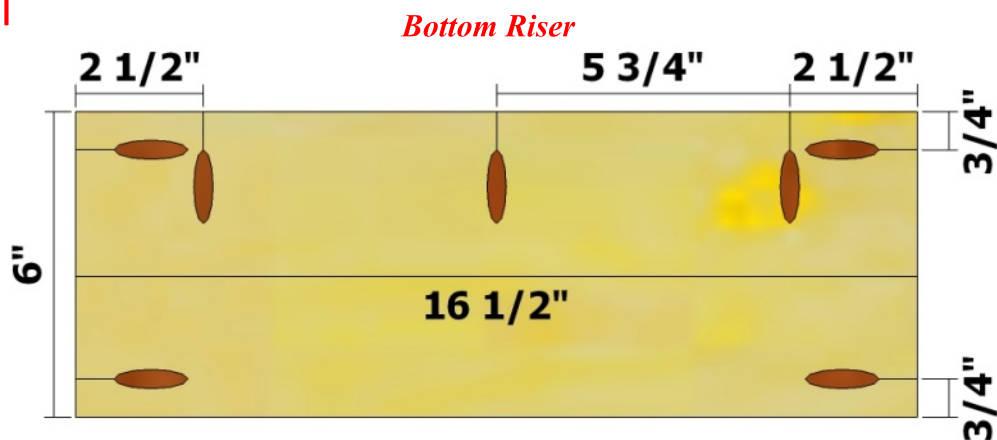
Use a table saw or circular saw with a guide to cut the parts to the outer dimensions first.

Use a flexible metal ruler or thin strip of scrap in marking the arc at the bottom. Cut the opening using a jigsaw.

Use a jigsaw to cut the step and riser openings.

Use a drill with a 1-inch bit to drill the starter holes for the hand hold openings and a jigsaw to cut the remainder.

LAYOUT



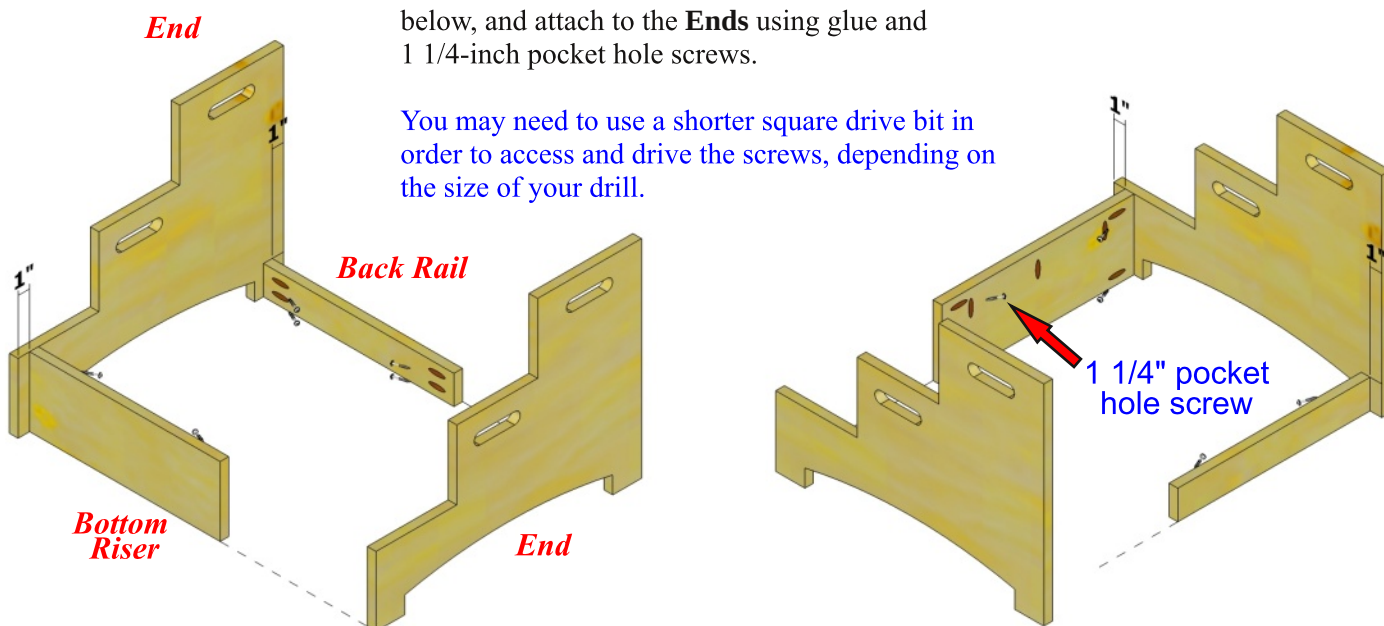
NOTE Use the layouts as guides for drilling pocket holes in the **Bottom Riser**, and **Back Rail**. Be sure to set your pocket hole jig and drill bit for 3/4-inch stock.



NOTE

Position the **Bottom Riser** and **Back Rail** as shown below, and attach to the **Ends** using glue and 1 1/4-inch pocket hole screws.

You may need to use a shorter square drive bit in order to access and drive the screws, depending on the size of your drill.

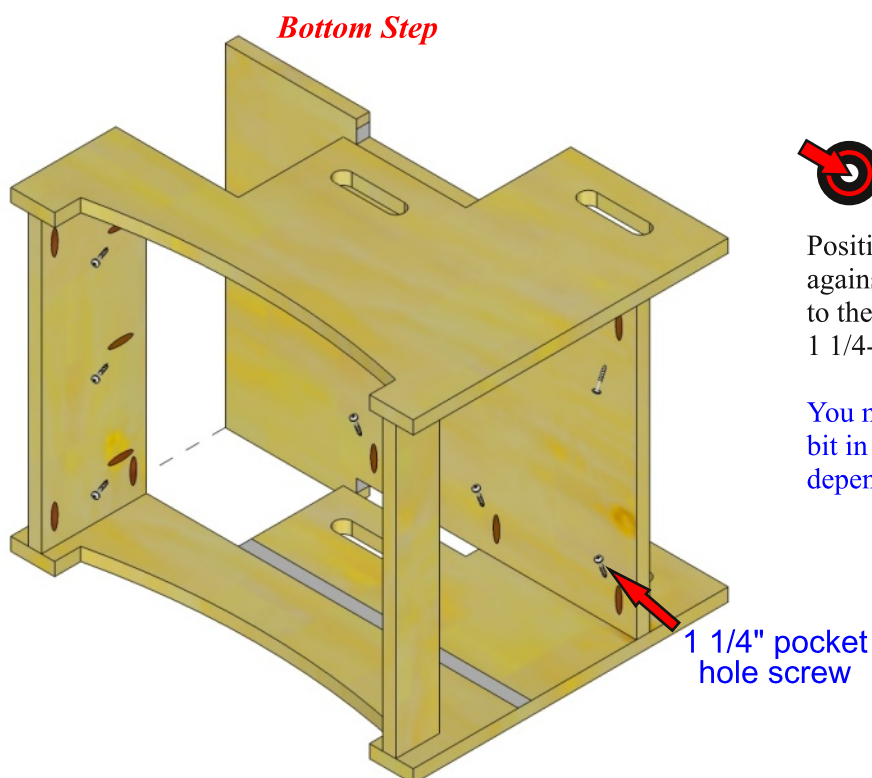
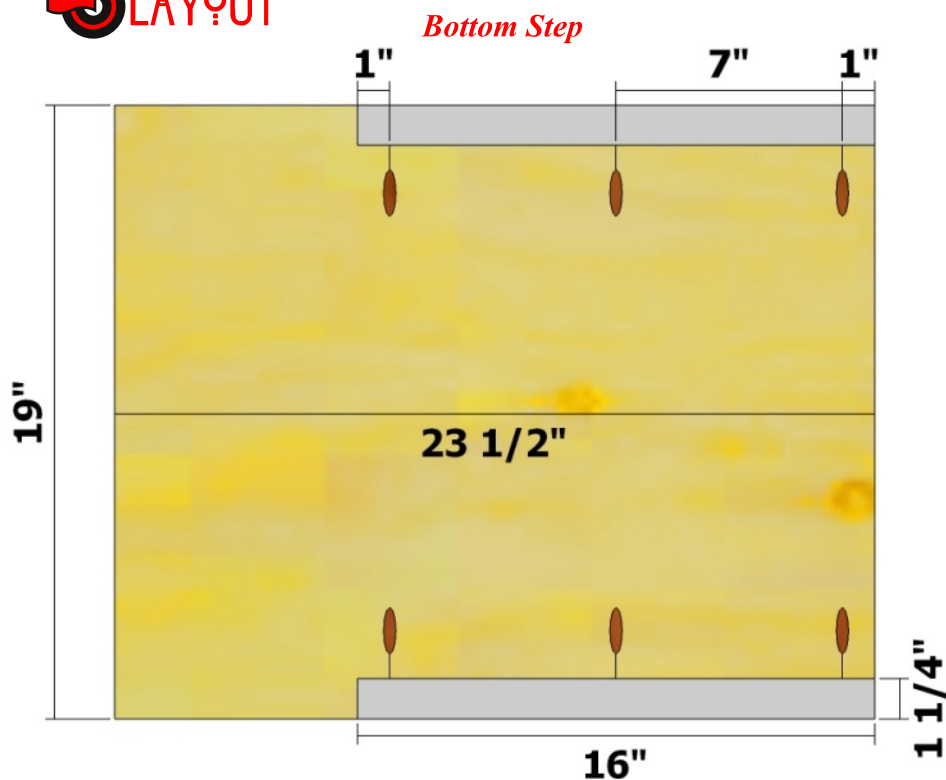


LAYOUT

NOTE

Use the layout as a guide for measuring, marking, cutting, and drilling pocket holes in the **Bottom Step**.

Be sure to set your pocket hole jig and drill bit for 3/4-inch stock.

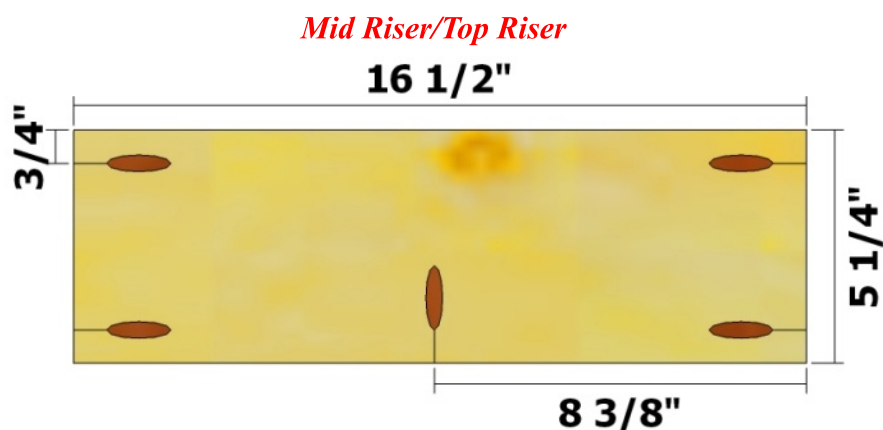


NOTE

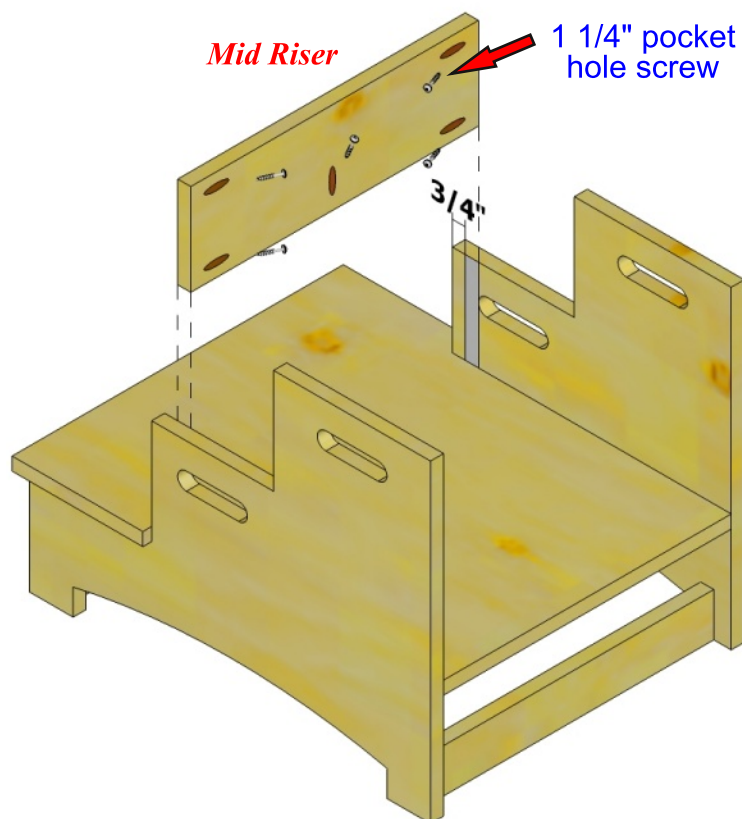
Position the **Bottom Step** as shown at left (flush against the **Ends** and **Bottom Riser**), and attach to the **Ends** and **Bottom Riser** using glue and 1 1/4-inch pocket hole screws.

You may need to use a shorter square drive bit in order to access and drive the screws, depending on the size of your drill.

LAYOUT



Use the layout as a guide for measuring, marking, cutting, and drilling pocket holes in the **Mid Riser** and **Top Riser**.
Be sure to set your pocket hole jig and drill bit for 3/4-inch stock.



Position the **Mid Riser** as shown at left, and attach to the **Ends** and **Bottom Step** using glue and 1 1/4-inch pocket hole screws.

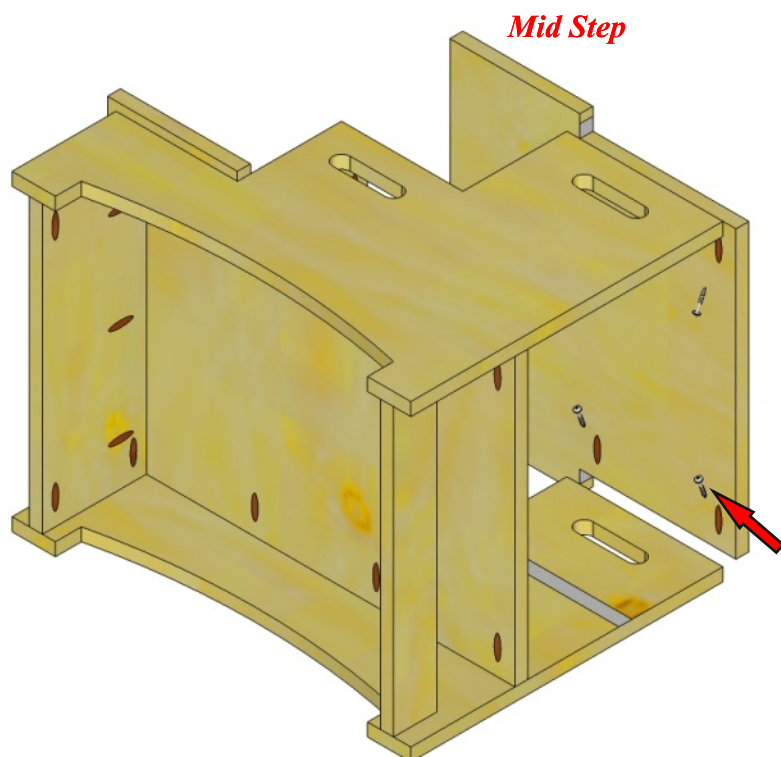
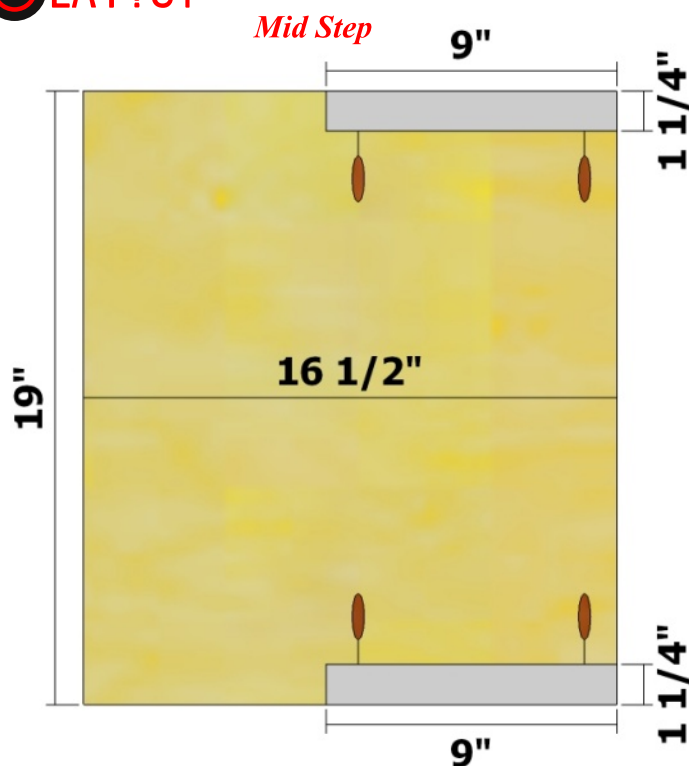
You may need to use a shorter square drive bit in order to access and drive the screws, depending on the size of your drill.

LAYOUT

NOTE

Use the layout as a guide for measuring, marking, cutting, and drilling pocket holes in the **Mid Step**. Position the pocket holes 1 inch from the edge and the corner.

Be sure to set your pocket hole jig and drill bit for 3/4-inch stock.

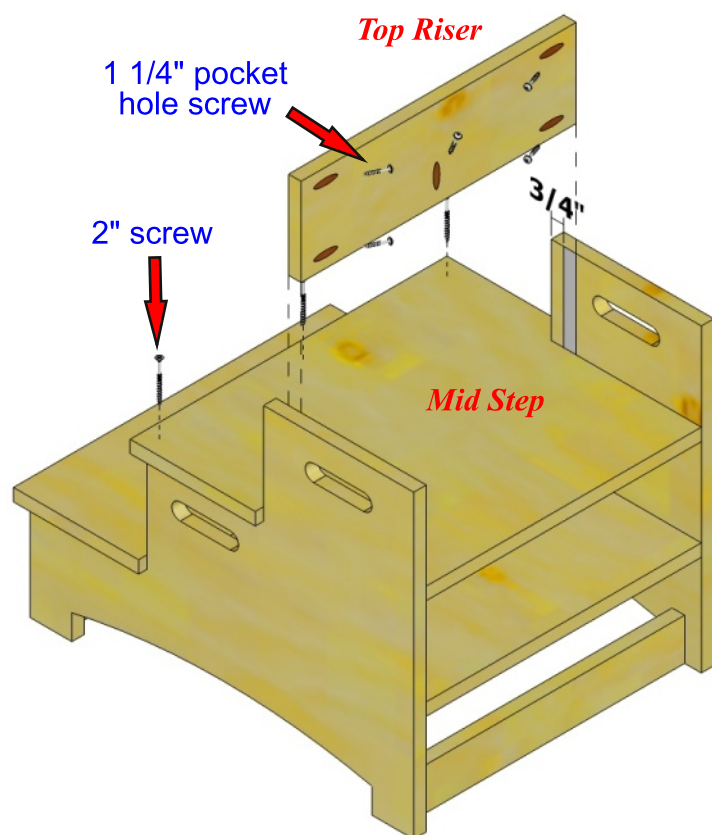


NOTE

Position the **Mid Step** as shown at left (flush against the **Ends** and **Mid Riser**, and attach to the **Ends** and **Mid Riser** using glue and 1 1/4-inch pocket hole screws.

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1 1/4" pocket hole screw



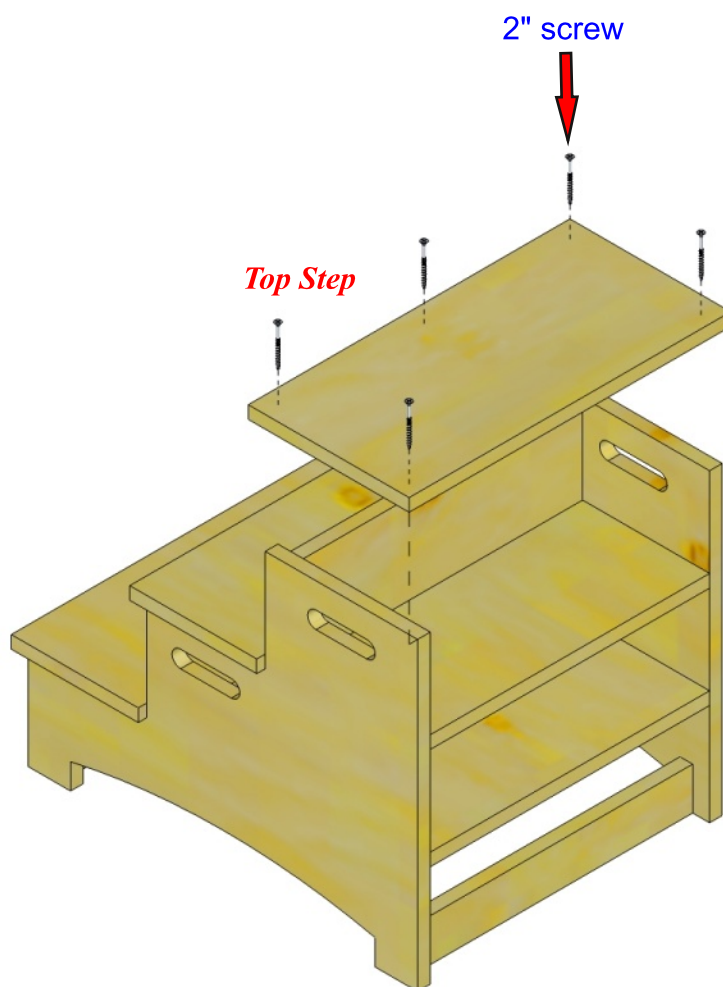
Finish attaching the **Mid Step** to the **Ends** and **Mid Riser** using 2-inch screws.

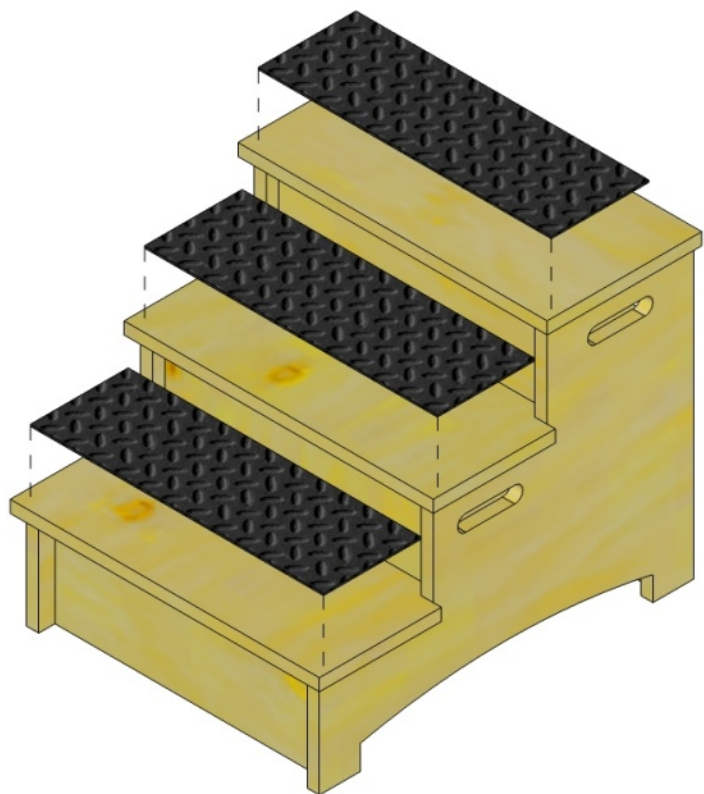
Position the **Top Riser** as shown at left, and attach to the **Ends** and **Mid Step** using glue and 1 1/4-inch pocket hole screws.

You may need to use a shorter square drive bit in order to access and drive the screws, depending on the size of your drill.



Position the **Top Step** as shown at right (flush with the back edge of the **Ends** and centered across the width), and attach to the **Ends** and **Top Riser** using glue and 2-inch screws.





 NOTE

Apply the self-adhesive rubber safety step treads centered on each step. They're available from various outlets online. Availability will vary at your local home center or hardware store.



CUTTING DIAGRAM



NOTE

Cut the sheet of plywood down into larger sections first, such as the section that contains the Bottom and Mid Steps, which is 19 inches wide. Then cut the parts from those sections.

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!

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