

CHIEF'S SHOP PLAN OF THE WEEK



SIMPLE WOODWORKING: OUTDOOR DINING BENCH



WHAT YOU'LL NEED



LUMBER

1 - 4 x 4 x 6

1 - 2 x 4 x 8

2 - 2 x 6 x 8

(availability will vary)

HARDWARE/SUPPLIES

2 1/2" pocket hole screws
(exterior)

2 1/2" deck screws

wood glue

stain, polyurethane

TOOLS

table saw or circular saw

hand saw

miter saw

sander

drill/driver

Kreg Pocket Hole Jig

chisel & mallet

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.



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PARTS

Legs (4) - 3 1/2 x 3 1/2 x 15

End Rails (2) - 1 1/2 x 3 1/2 x 8 1/2

Side Rails (2) - 1 1/2 x 3 1/2 x 36 1/2

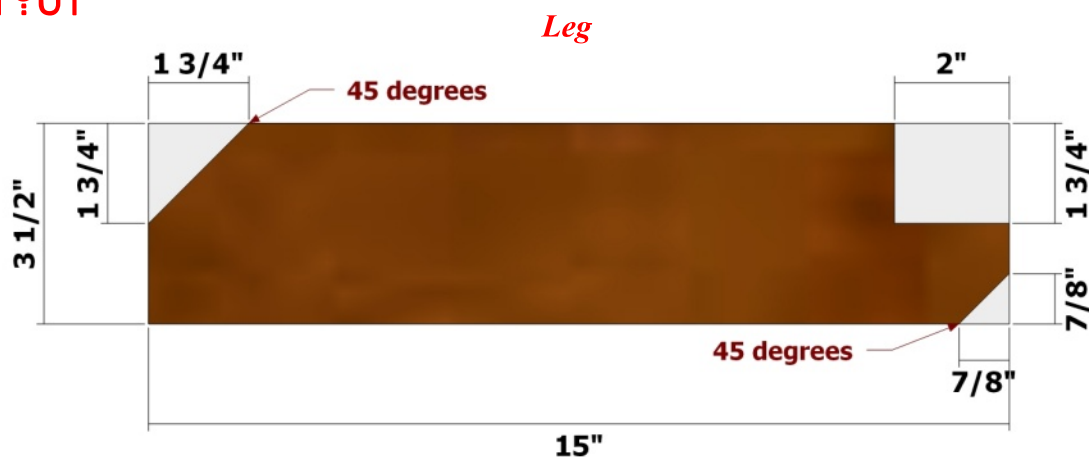
Stretcher (1) - 1 1/2 x 3 1/2 x 10 1/2

Center Slat (1) - 1 1/2 x 3 1/2 x 43 1/2

Outer Slats (2) - 1 1/2 x 3 1/2 x 40

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.

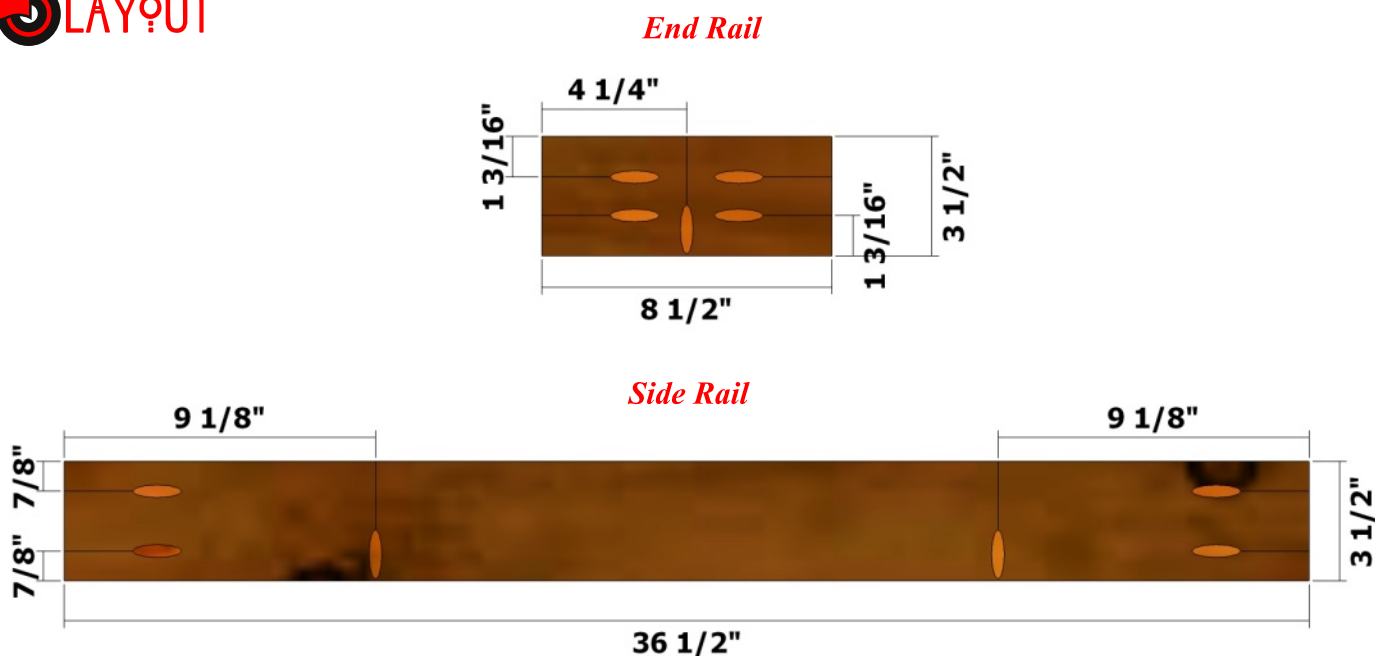
LAYOUT



NOTE

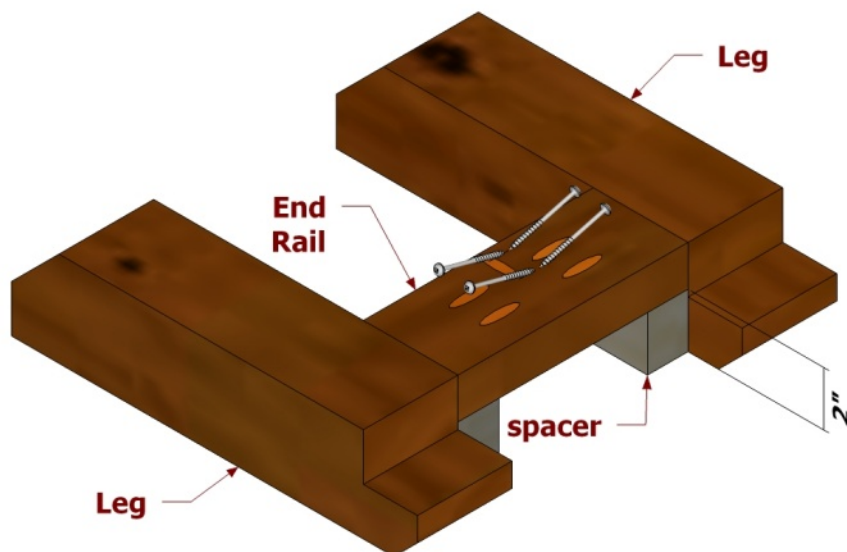
Use the layout as a guide for measuring, marking, and cutting the **Legs**. Use a circular saw or hand saw to cut the 2" x 1 3/4" section. If needed, use a chisel to square up the cut area.
Note: If you want a taller bench, increase the length of the **Legs**.

LAYOUT



NOTE

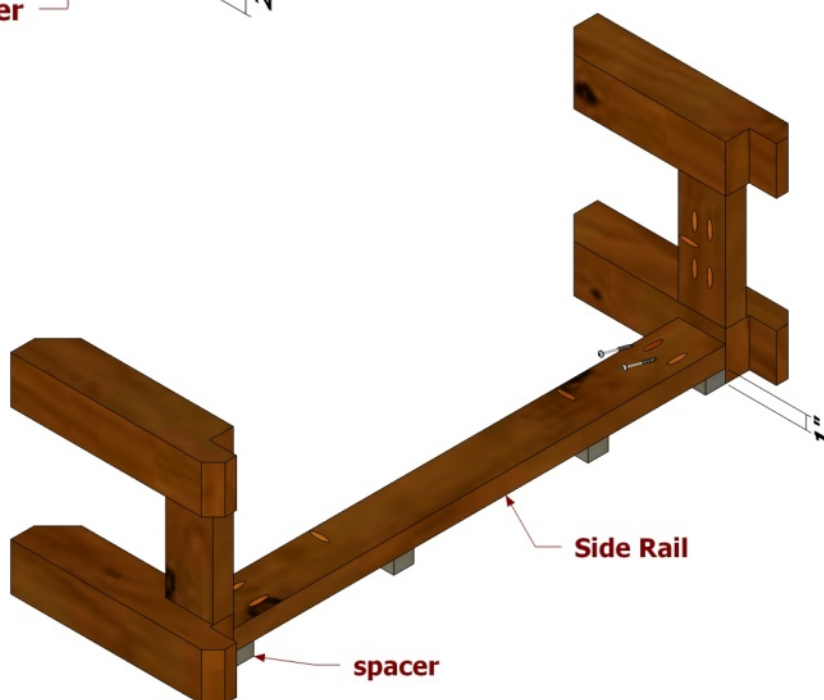
Use the layouts as guides for measuring, cutting, and drilling pocket holes in the **End Rails** and **Side Rails**.
Be sure to set your pocket hole jig and drill bit for 1 1/2-inch stock.



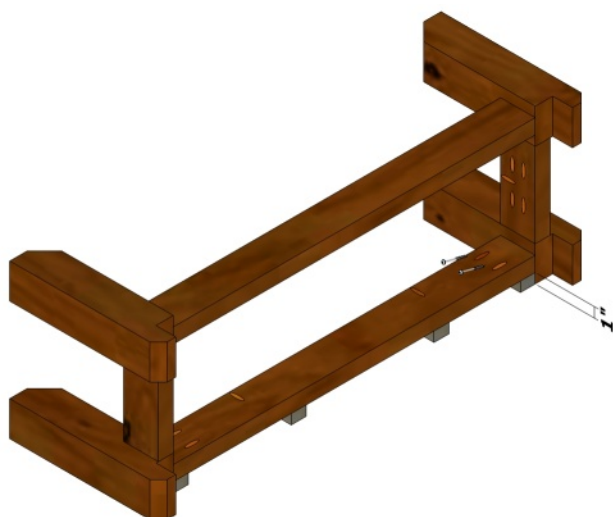
Position the parts as shown at left and attach using glue and 2 1/2-inch pocket hole screws. Create two assemblies. **Cut the spacers (1 1/2" x 3 1/2" x 2") from scrap 2x lumber.**



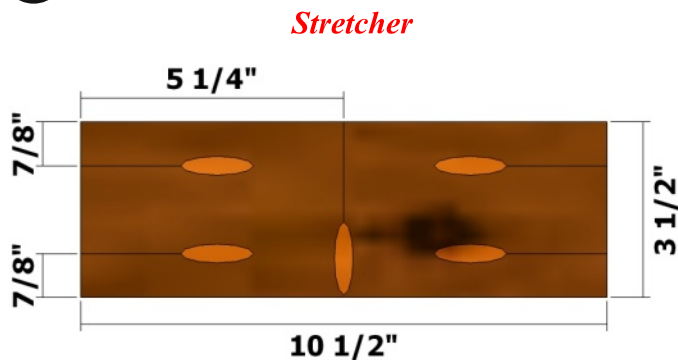
Position the parts as shown at right and attach using glue and 2 1/2-inch pocket hole screws. Create two assemblies. **Cut the spacers (1 1/2" x 3 1/2" x 1") from scrap 2x lumber.**



Flip over the assembly and attach the remaining **Side Rail** as shown at left.



LAYOUT

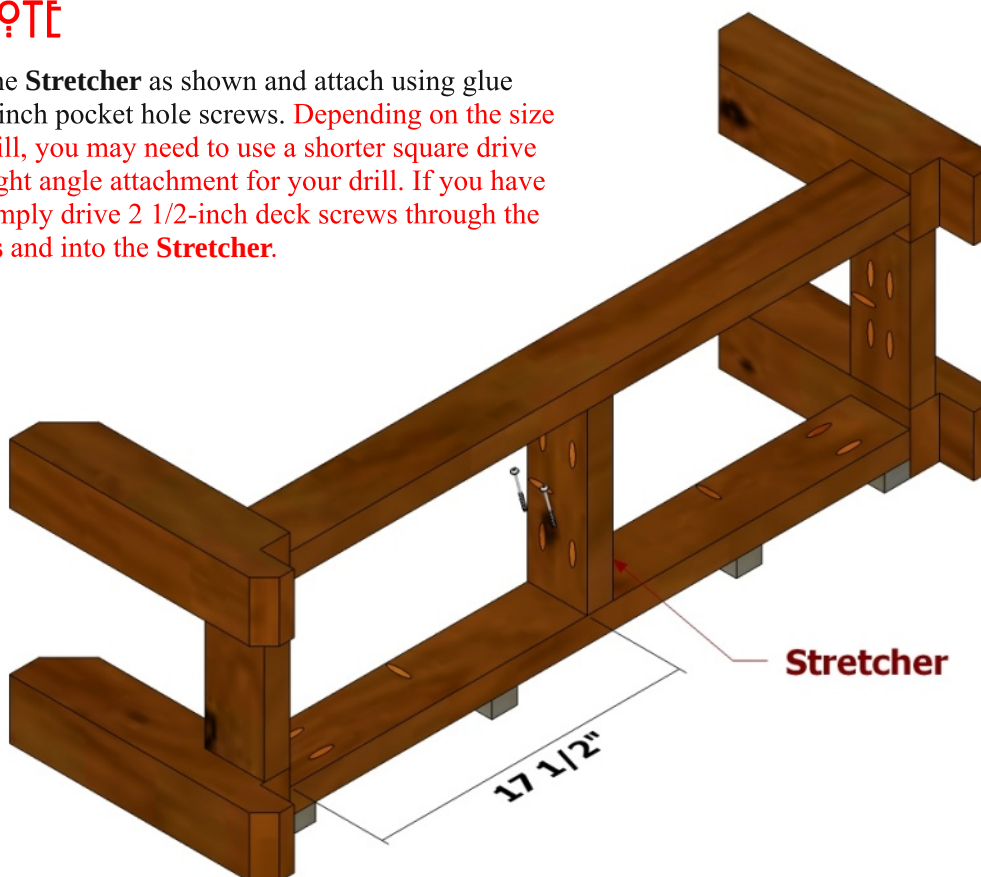


NOTE

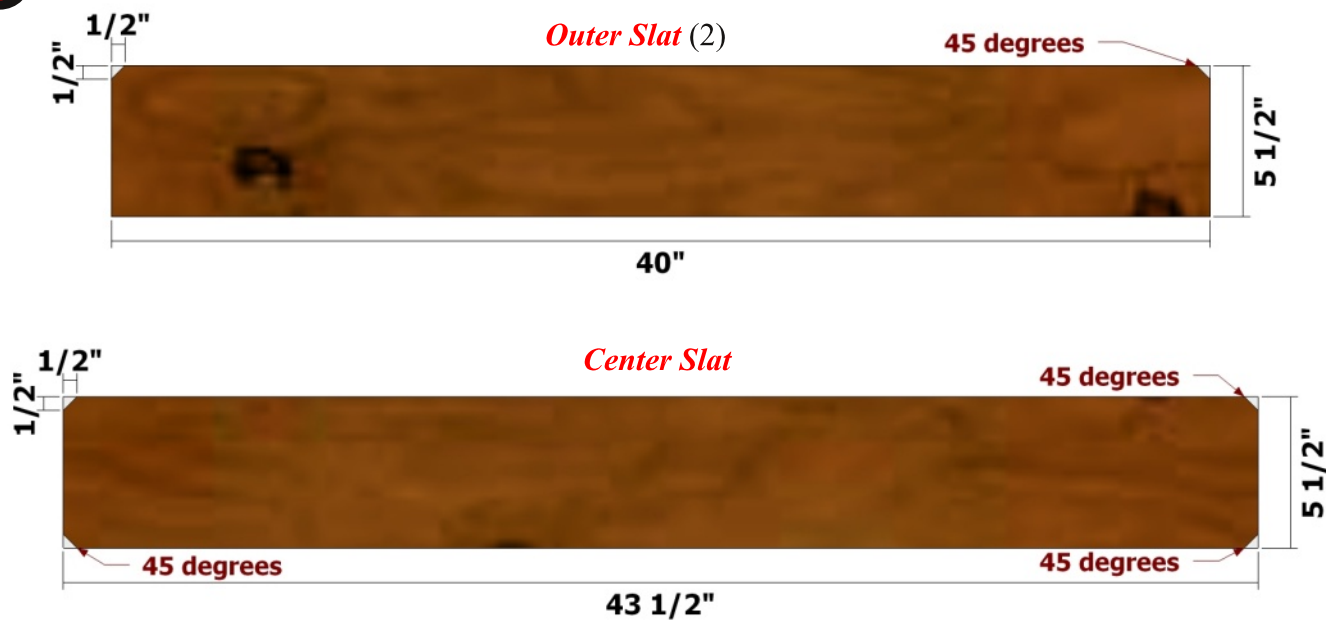
Use the layout as a guide for measuring, marking, cutting, and drilling pocket holes in the **Stretcher**. Be sure to set your pocket hole jig and drill bit for 1 1/2-inch stock.

NOTE

Position the **Stretcher** as shown and attach using glue and 2 1/2-inch pocket hole screws. Depending on the size of your drill, you may need to use a shorter square drive bit, or a right angle attachment for your drill. If you have neither, simply drive 2 1/2-inch deck screws through the **Side Rails** and into the **Stretcher**.



LAYOUT



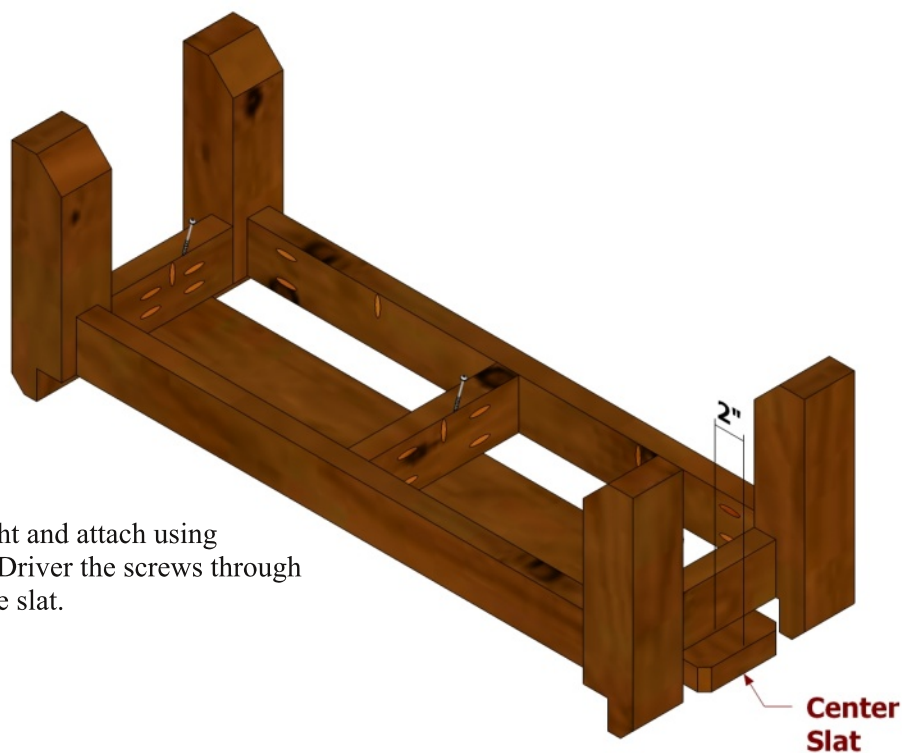
NOTE

Use the layouts as guides for measuring, marking, and cutting the **Outer Slats** and **Center Slat**. Be sure to create two **Outer Slats**.



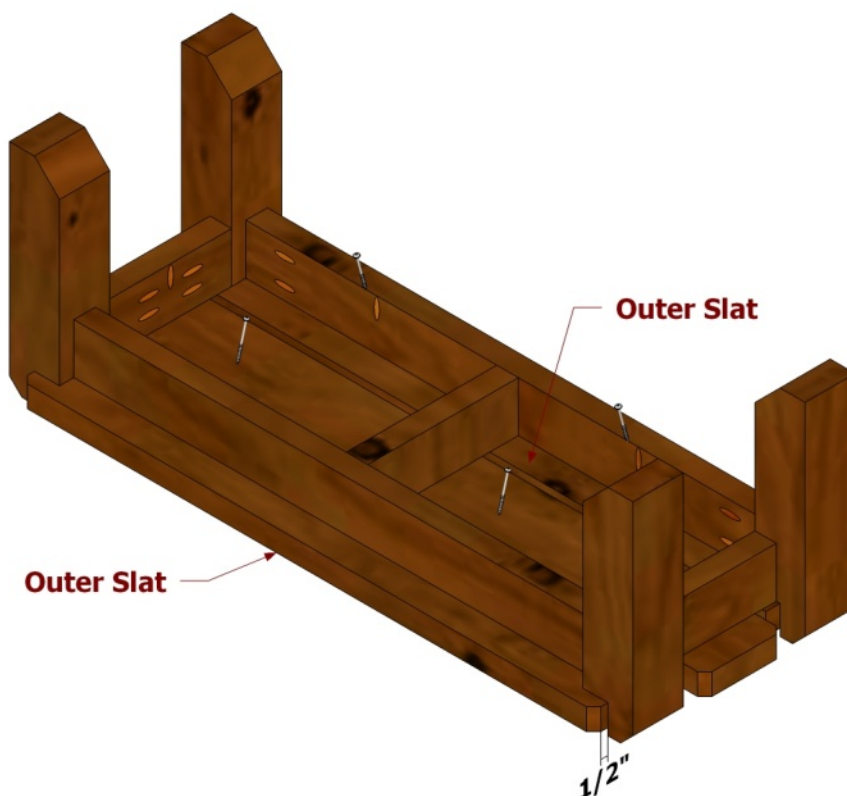
NOTE

Position the **Center Slat** as shown at right and attach using glue and 2 1/2-inch pocket hole screws. Driver the screws through the **End Rails** and **Stretcher** and into the slat.



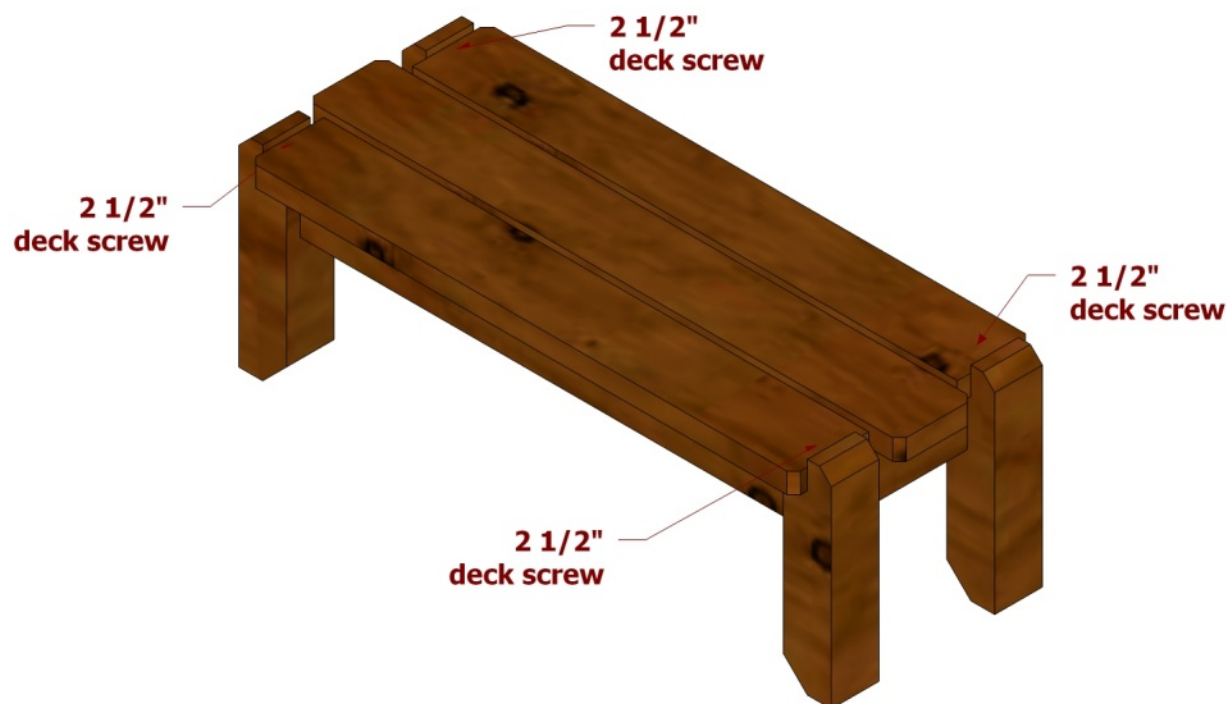
NOTE

Position the **Outer Slats** as shown at right and attach using glue and 2 1/2-inch pocket hole screws. Drive the screws through the **Side Rails** and into the **Outer Slats**.



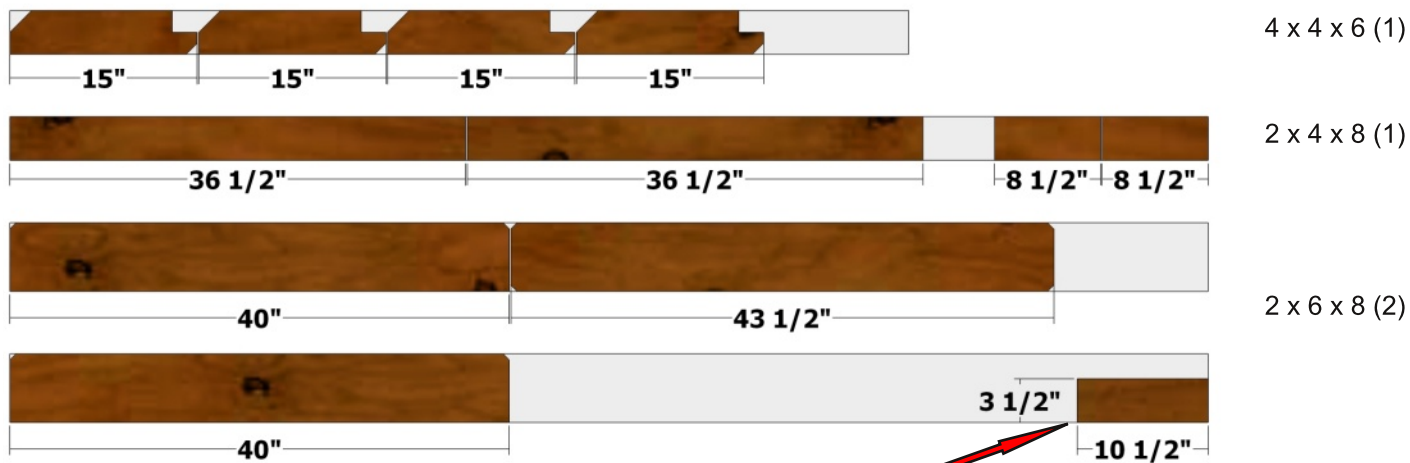
NOTE

Flip over the assembly, drill countersunk pilot holes for 2 1/2-inch deck screws, and drive the deck screws through the **Outer Slats** and into the **Side Rails** near the end of the slats.





CUTTING DIAGRAM



Note: The Stretcher is ripped from the of the 2 x 6s. If you have scrap 2 x 4 from another project, you can feel free to cut the part from it and avoid having to make the rip cut.

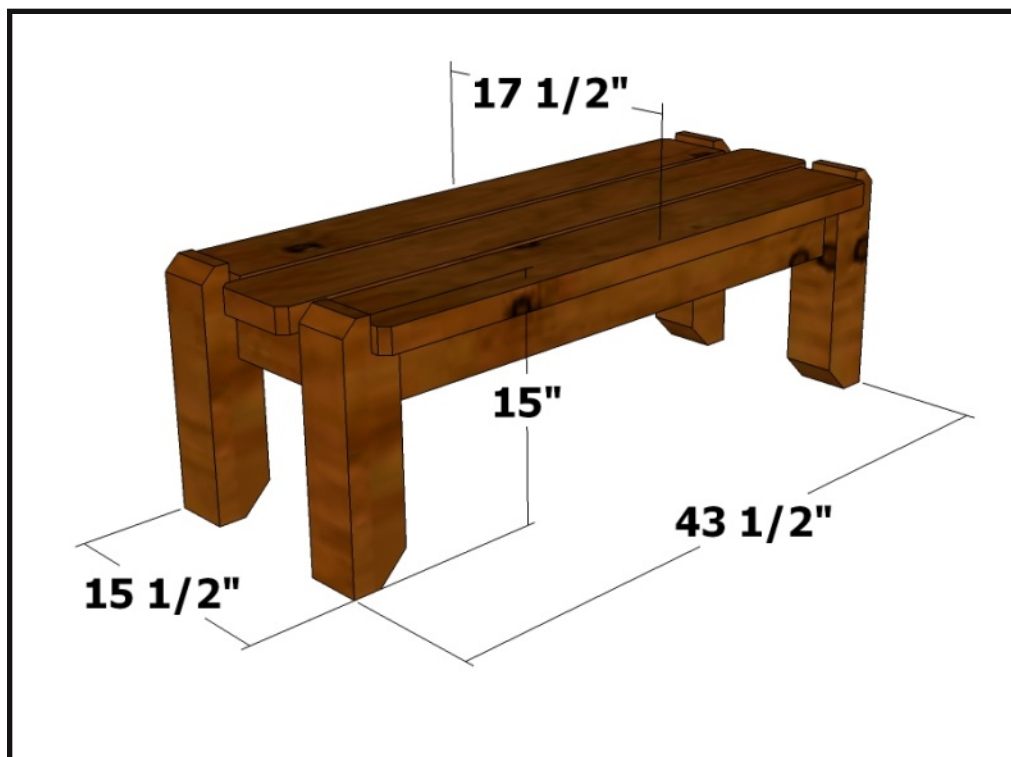
Estimated Lumber Cost

Starting at \$18
(excludes taxes)



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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!