

# CHIEF'S SHOP PLAN OF THE WEEK



## STORAGE 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.



### MORE PLANS

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### VIDEO

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

### WHAT YOU'LL NEED



#### LUMBER

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

#### HARDWARE/SUPPLIES

- Kreg 1 1/4" pocket hole screws
- 1 1/4" brads
- 36" continuous (piano) hinge
- 1-2 heavy-duty lid supports
- wood glue
- paint/stain/sealer/polyurethane

#### TOOLS

- miter saw
- jigsaw or band saw
- sander/belt sander
- drill/driver
- Kreg Jig
- clamps
- square
- flexible metal ruler

### PARTS

- Legs (12)\* - 3/4 x 2 1/2 x 17
  - End Rails (4) - 3/4 x 3 1/2 x 14 3/8
  - End Panels (2) - 3/4 x 14 3/8 x 15 5/16
  - Side Rails (4) - 3/4 x 3 1/2 x 28 1/2
  - Long Stiles (2) - 3/4 x 2 1/2 x 15 5/16
  - Short Stile (1) - 3/4 x 2 1/2 x 8 5/16
  - Short Cleats (4) - 3/4 x 2 1/2 x 13
  - Long Cleats (3) - 3/4 x 2 1/2 x 15 7/8
  - Bottom Panel (1) - 3/4 x 15 7/8 x 33 1/2
  - Side Panels (2) - 3/4 x 13 13/16 x 33 1/2
  - Fixed Slat (1) - 3/4 x 5 1/2 x 40
  - Seat Slats (3) - 3/4 x 5 1/2 x 40
- \*creates four Leg Assemblies

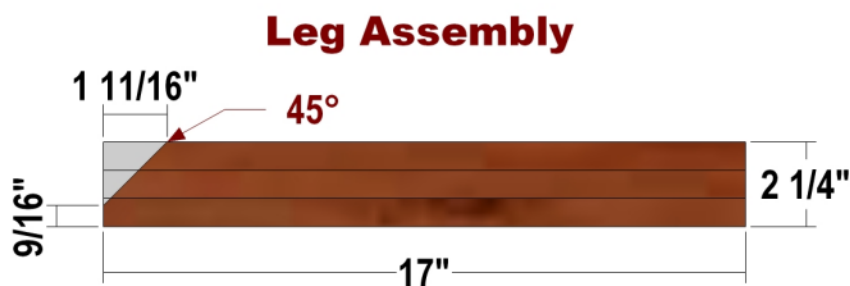
All parts are listed in actual dimensions. Refer to the Cutting Diagram on the last page of this plan as a guide for determining the specific board from which to cut the parts.



## NOTE

Cut the Legs per the Parts List. Apply glue to the faces of the Legs and create a laminated Leg Assembly using three Legs as shown at left. You can either clamp the parts in place or attach two Leg parts together at a time using glue and 1 1/4" brads. *Create four assemblies. Sand or scrap the assemblies smooth, particular on the edges.*

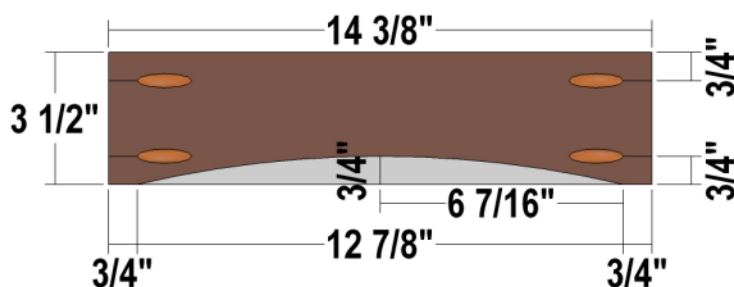
## LAYOUT



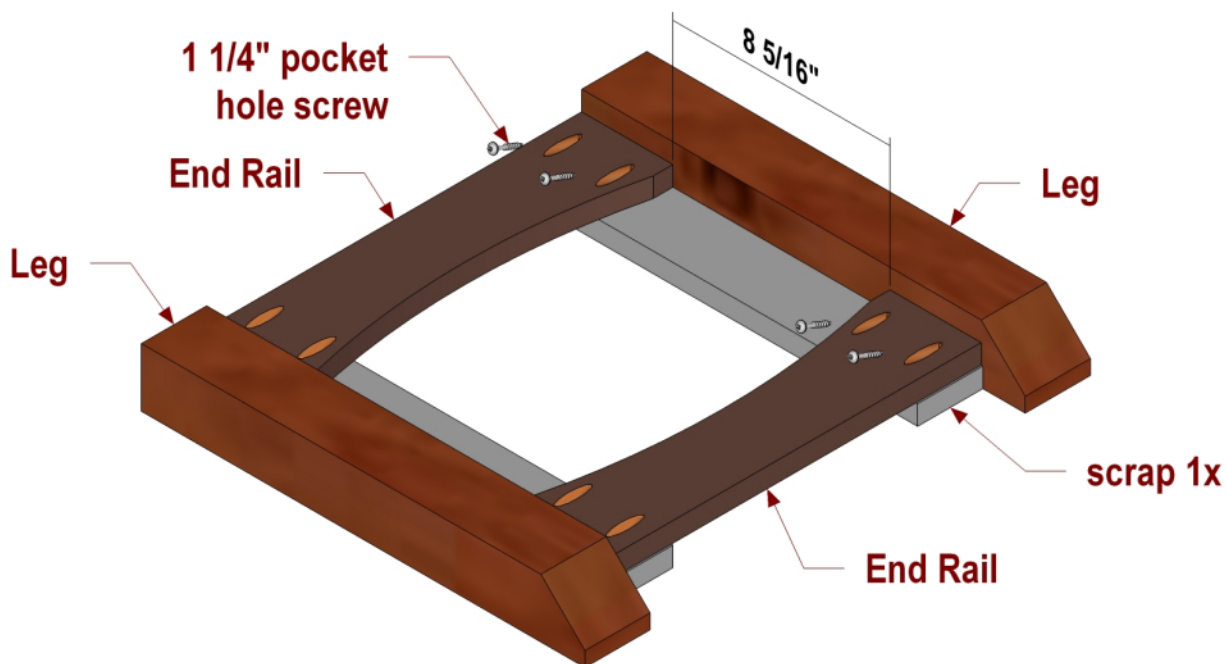
## NOTE

After the glue has set, cut a 45-degree on one end as shown in the layout.

## End Rail

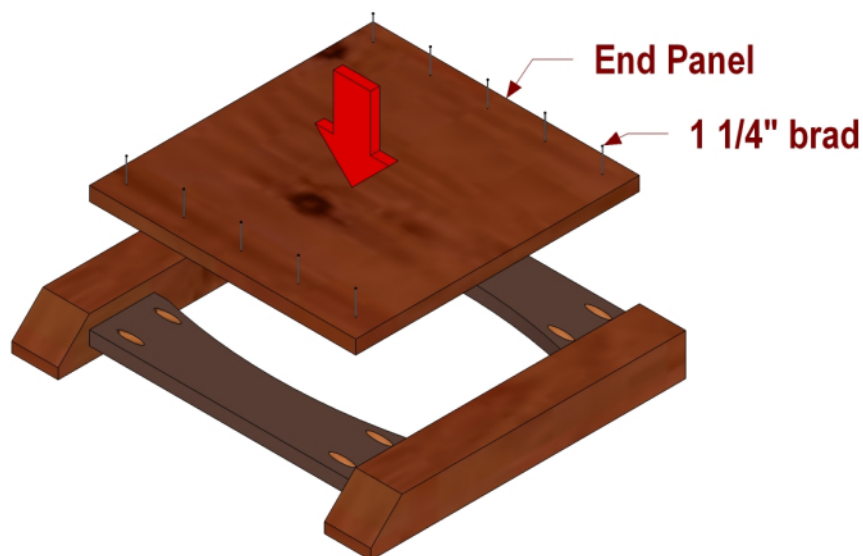


Use the layouts for creating the End Rails. Set your Kreg Jig and drill bit for 3/4" stock. Cut the arc using a jigsaw or band saw. Click [here](#) for my video on creating large arcs.



Apply glue to the ends of the End Rails, and position the parts as shown, using 1x scrap as 3/4" spacers. Attach using 1 1/4" pocket hole screws.

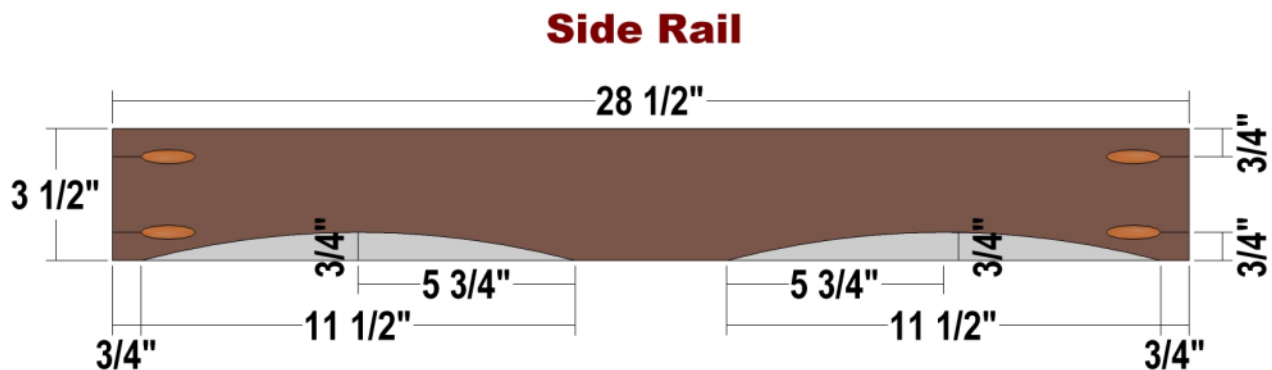
## STORAGE BENCH



### NOTE

Apply glue to the faces of the End Rails with pocket holes and attach the End Panels to the End Rails using 1 1/4" brads. You want to make sure that the End Panels fit snugly, so check the measurement of the space before cutting the panels.

### LAYOUT

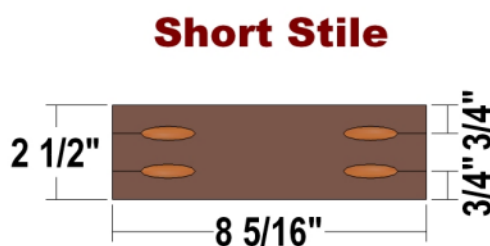
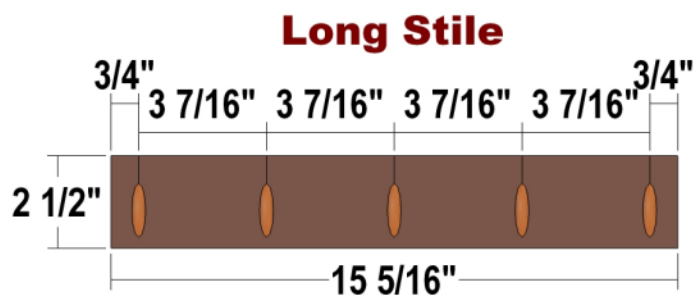


### NOTE

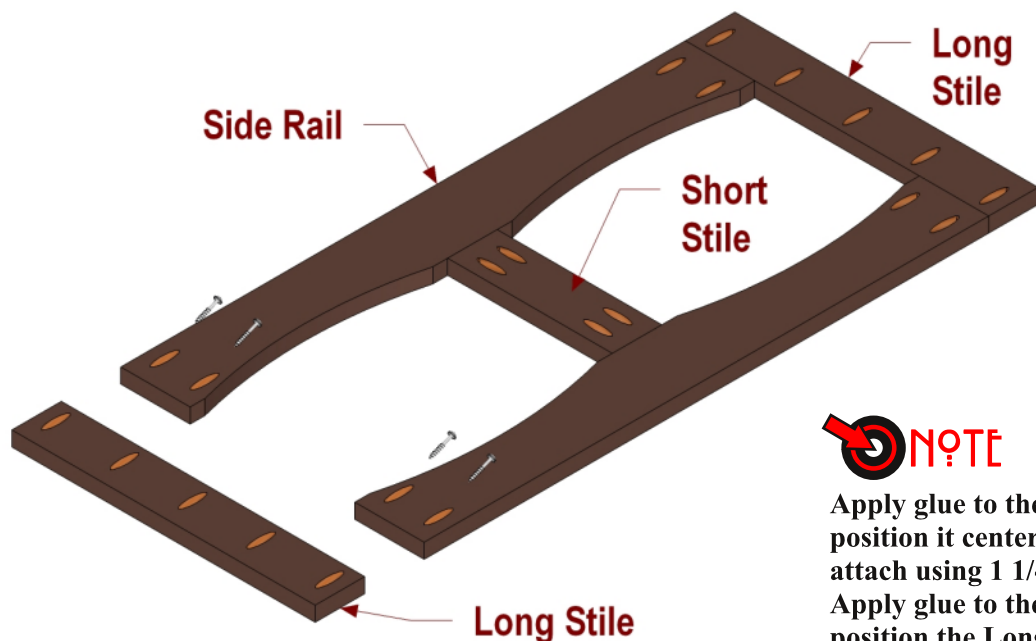
Use the layouts for creating the Side Rails. Set your Kreg Jig and drill bit for 3/4" stock. Cut the arc using a jigsaw or band saw.



## STORAGE BENCH



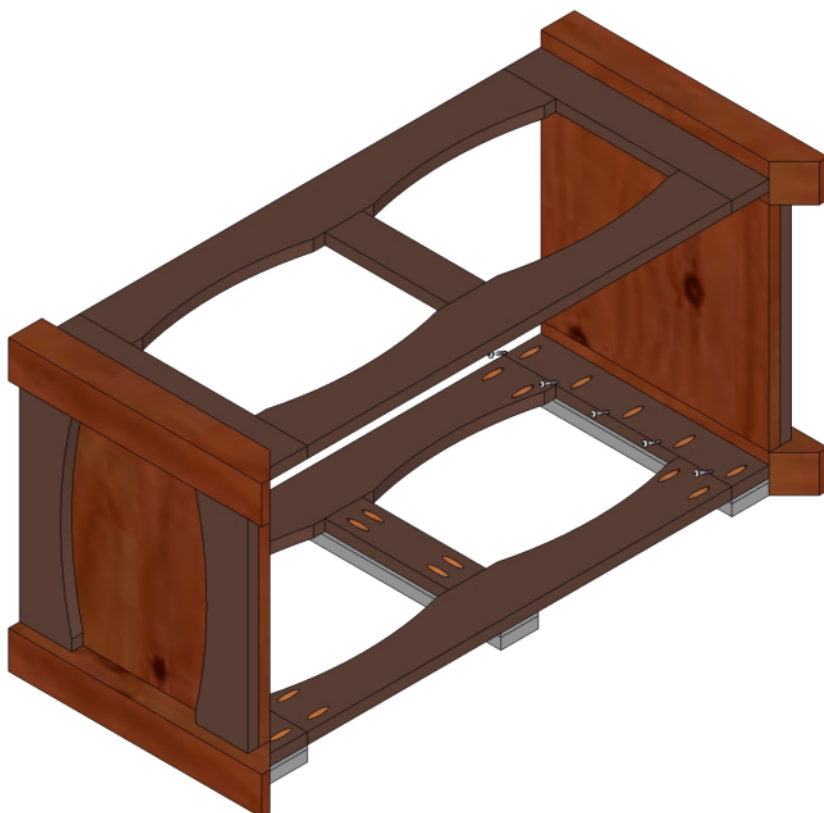
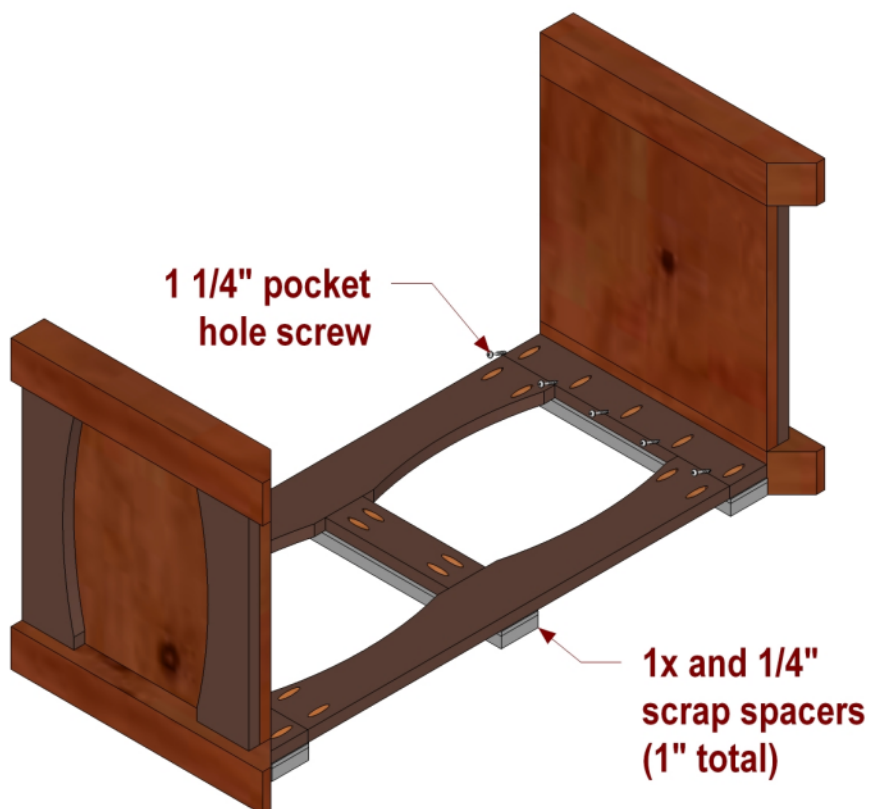
Use the layouts for creating the Long Stiles and Short Stiles. Set your Kreg Jig and drill bit for 3/4" stock.



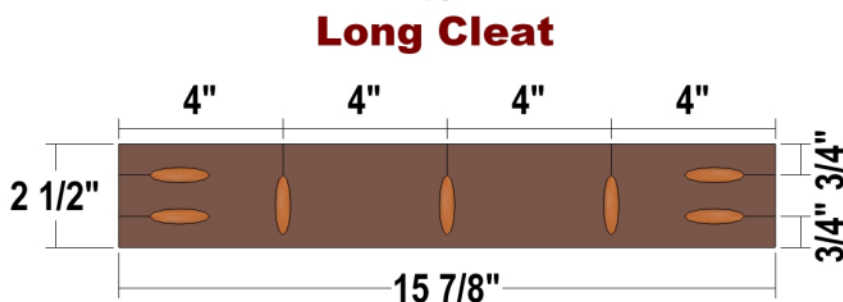
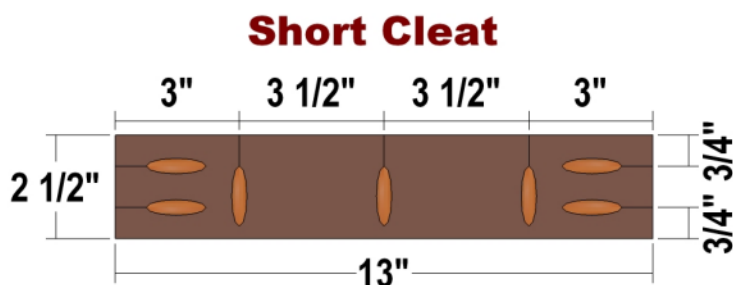
Apply glue to the ends of the Short Stile, position it centered on the Side Rails, and attach using 1 1/4" pocket hole screws. Apply glue to the ends of the Side Rails, position the Long Stiles (with the pocket holes pointing outward) flush with the edges of the Side Rails, and attach using 1 1/4" pocket hole screws.

## NOTE

Apply glue to the edges of the Long Stiles and position as shown (flush with the top end of the Legs). Use 1x scrap and 1/4" scrap as spacers to create the 1" offset as shown. Attach using 1 1/4" pocket hole screws.



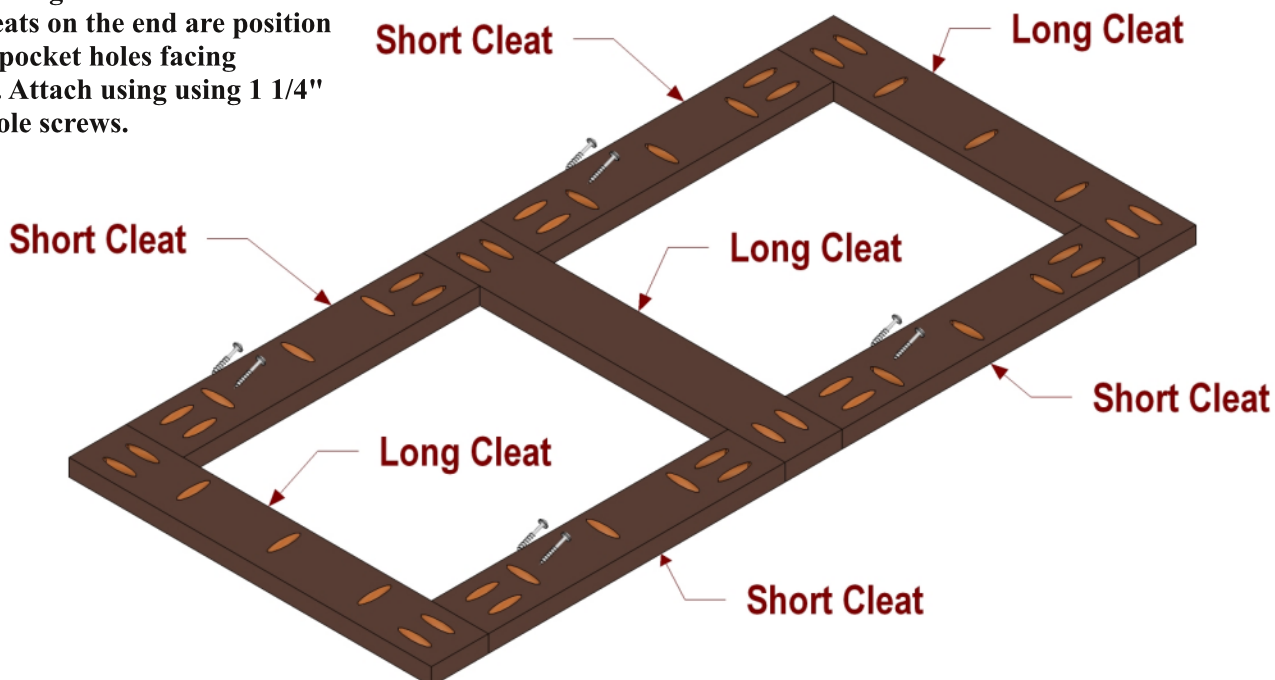
## STORAGE BENCH



Use the layouts for creating the Short Cleats and Long Cleats. **Set your Kreg Jig and drill bit for 3/4" stock.** *Create one Long Cleat with only pocket holes on the end.*

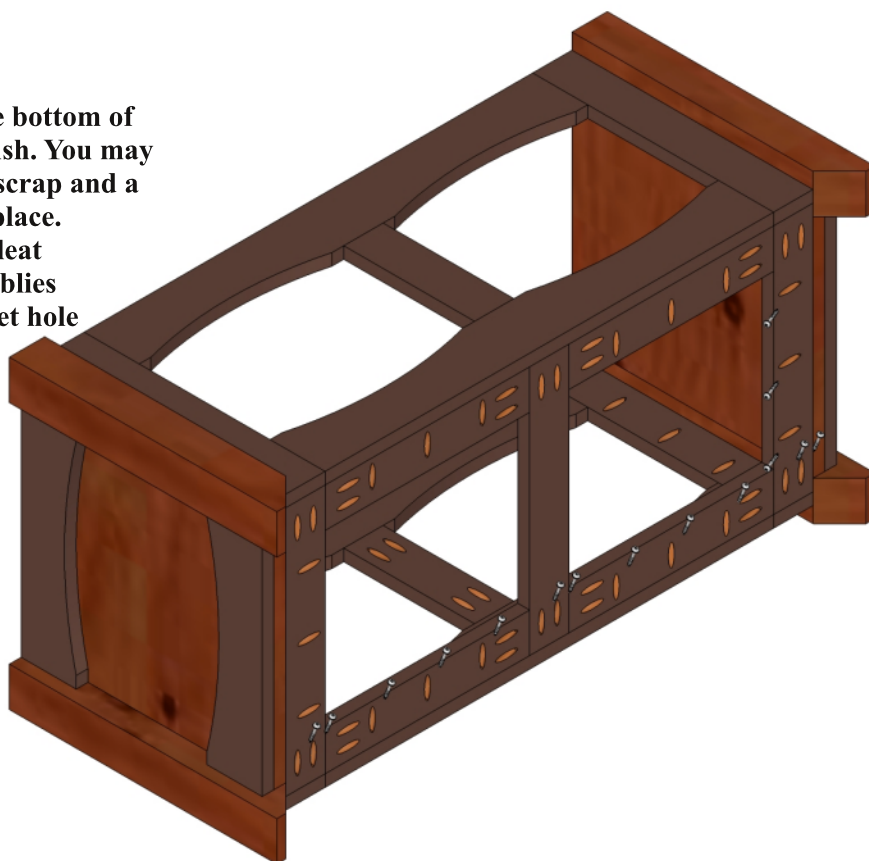


Apply glue to the ends of the Short Cleats and position them as shown with the Long Leats. Make sure the Long Cleats on the end are position with the pocket holes facing outward. Attach using using 1 1/4" pocket hole screws.



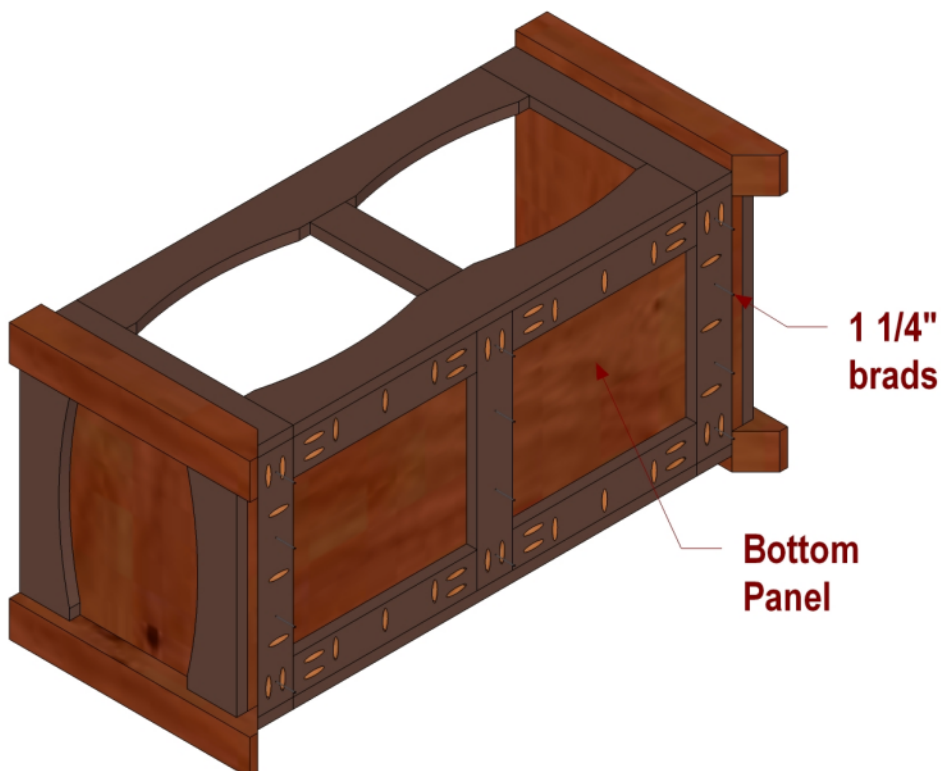
## NOTE

Position the Cleat Assembly inside the bottom of the Base Assembly so that they are flush. You may need to use a wood mallet or piece of scrap and a rubber mallet to tap the assembly in place. Clamping will also help. Attach the Cleat Assembly to the Side Rail/Stile Assemblies and the End Panels using 1 1/4" pocket hole screws.



## NOTE

Apply glue to the faces of the Cleats and attach the Bottom Panel to the Cleat Assembly using 1 1/4" brads. You want to make sure that the Bottom Panel fits snugly, so check the measurement of the space before cutting the panel.

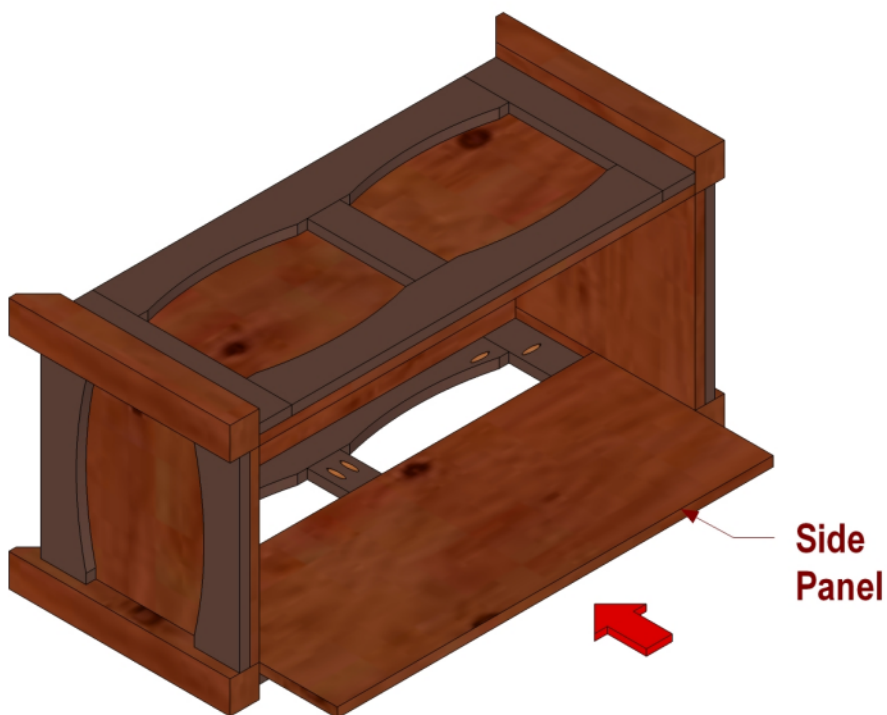
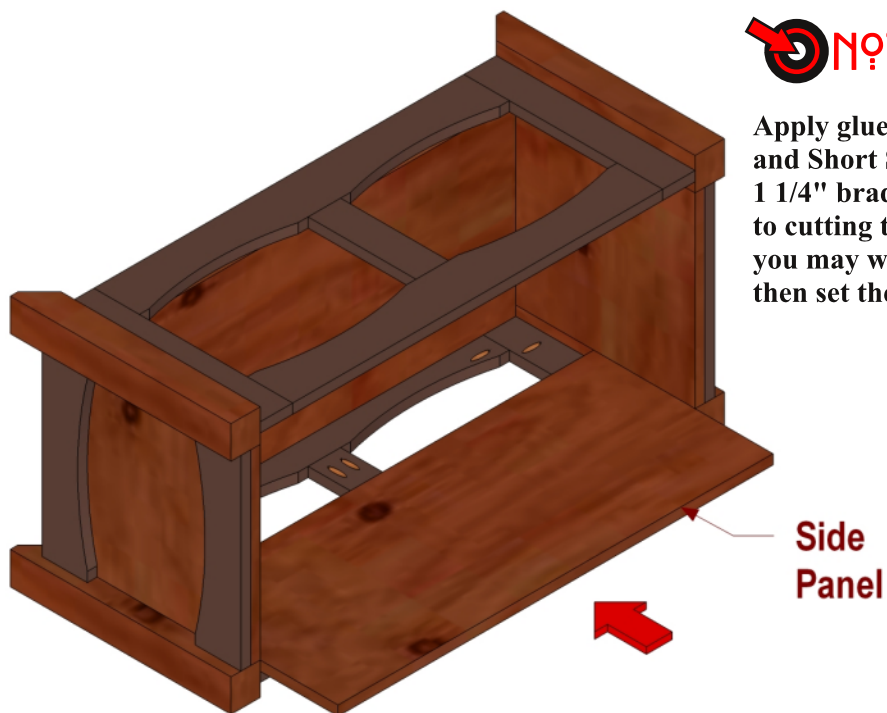


## STORAGE BENCH



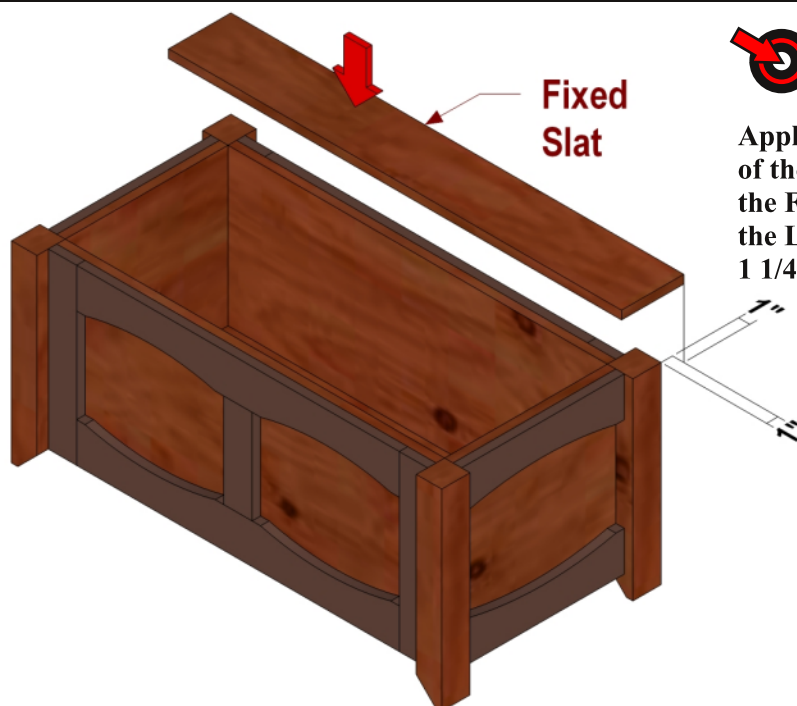
### NOTE

Apply glue to the faces of the Side Rails, Long Stiles, and Short Stiles and attach the Side Panel using 1 1/4" brads. Check the opening measurement prior to cutting the panels. To avoid smearing the glue, you may want to insert the Side Panels at an angle, then set them flush against the Rails and Stiles.





## STORAGE BENCH

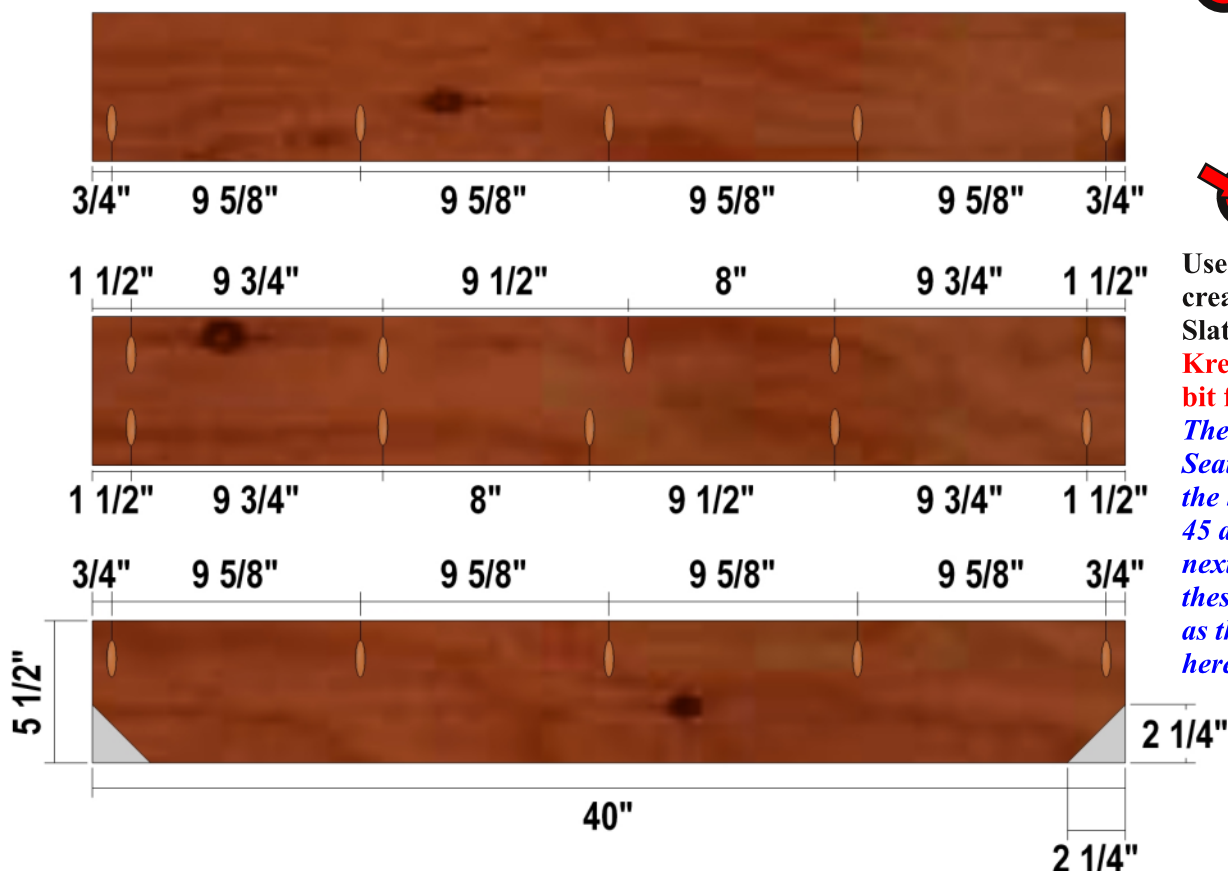


Fixed Slat



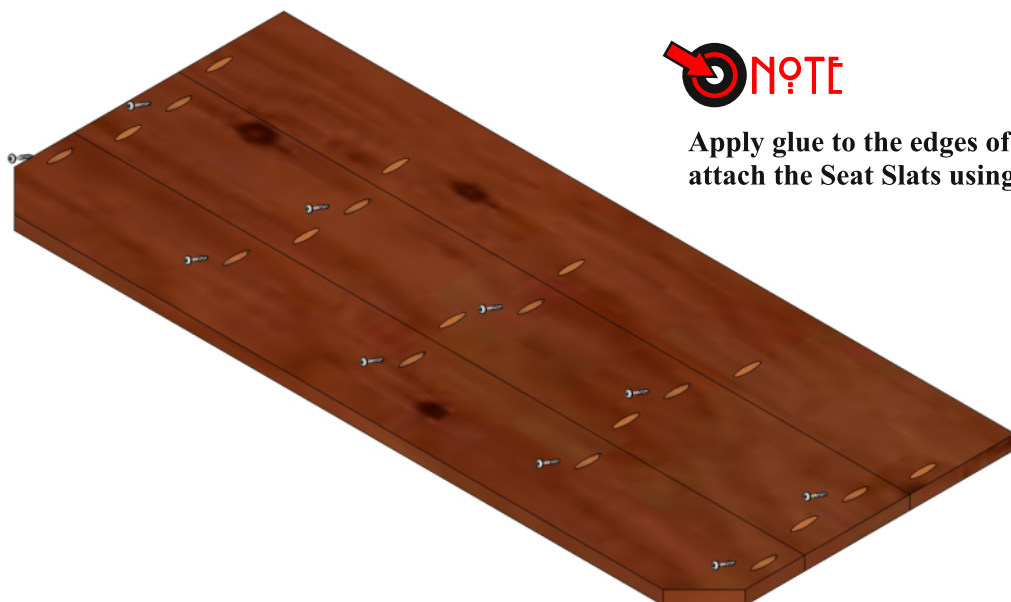
Apply glue to the top end of two Legs, and top edge of the adjoining Side Rail and Side Panel. Position the Fixed Slat so that it extends beyond the back of the Legs and end of the Legs by 1 inch. Attach using 1 1/4" brads

### Seat Slats



Use the layouts for creating the Seat Slats. **Set your Kreg Jig and drill bit for 3/4" stock.** *The miter on the Seat Slat shown at the bottom is set at 45 degrees. In the next step, position these parts exactly as they are shown here.*

## STORAGE BENCH



Apply glue to the edges of the center Seat Slat and attach the Seat Slats using 1 1/4" pocket hole screws.



continuous  
(piano) hinge



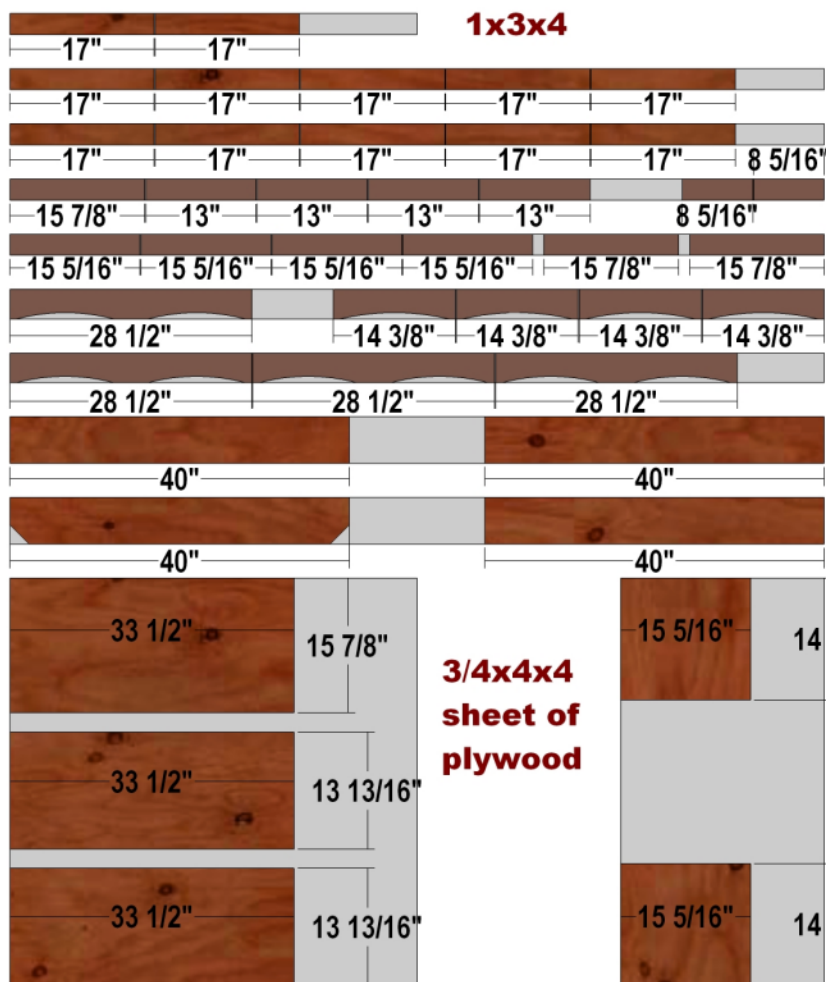
Attach a 36" continuous (also know as piano) hinge to the Fixed Slat and Seat Slat assembly. Test the fit and open and close the seat and make adjustments as needed.



Attach one or two lid supports to prevent the Seat Slat assembly from slamming shut, particularly if you have small children around.



## CUTTING DIAGRAM



**1x3x8  
(4)**

**1x4x8  
(2)**

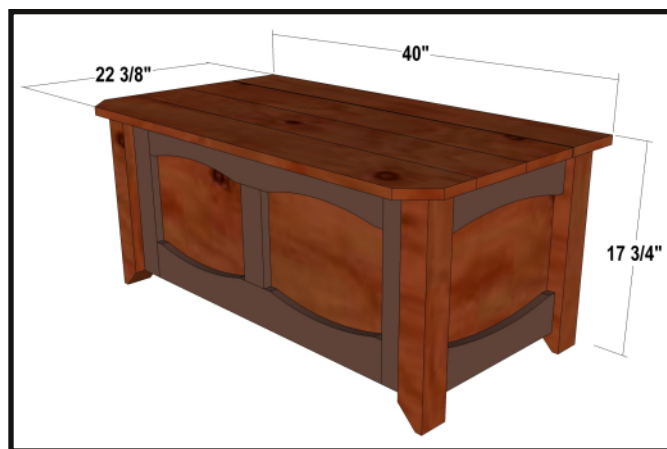
**1x6x8  
(2)**

**3/4x2x4  
sheet of plywood**

### PARTS

Legs (12)\* - 3/4 x 2 1/2 x 17  
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Seat Slats (3) - 3/4 x 5 1/2 x 40  
\*creates four Leg Assemblies

*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.*



### 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!