



PROJECT PLANS

HOBBY BENCH



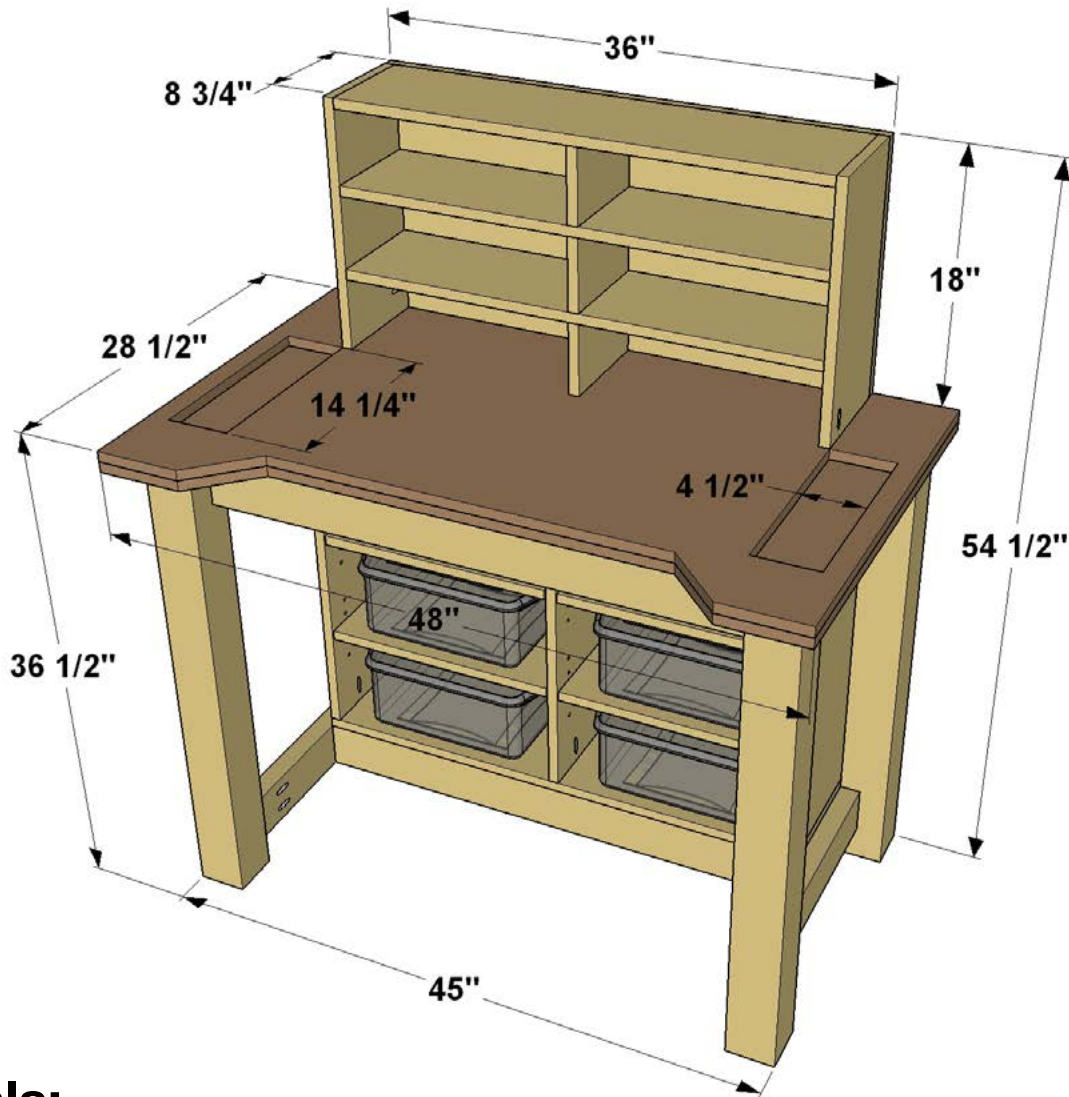
This great-looking bench provides the perfect place to pursue a variety of hobbies. It offers a large bench top with built-in trays for small items, plus shelves up above to hold even more. Underneath, an organizer holds 16-quart storage bins so you'll always be able to organize your supplies. Plus, the bench is super sturdy, so it will hold up whether you're working with small crafts or heavyweight projects.

The entire bench is built from two sheets of MDF (Medium Density Fiberboard), plus a couple of 4x4s and three 2x4s.



Safety:

Attention: Almost any do-it-yourself project involves risk of some sort. Your tools, materials, and skills will vary, as will the conditions at your project site. Kreg® Tool Company ("Kreg") has made every effort to be complete and accurate in the instructions and other content contained in this document. However, Kreg® will not assume any responsibility or liability for damages or losses sustained or incurred in the course of your project or in the use of the item you create. Always follow the manufacturer's operating instructions in the use of tools, check and follow your local building codes, and observe all commonly accepted safety precautions. We strive to be accurate, but reserve the right to correct any errors.



Materials:

Qty	Description
(2)	3/4" x 49" x 97" MDF Sheets
(2)	4 x 4 x 96" Spruce, Pine or Fir Boards
(3)	2 x 4 x 96" Spruce, Pine or Fir Boards
(30)	2 1/2" Coarse Thread Pocket Hole Screws
(15)	1 1/2" Coarse Thread Pocket Hole Screws
(90)	1 1/4" Coarse Thread Pocket Hole Screws
(24)	#8 x 1 1/4" Flathead Wood Screws
	Wood Glue
	Paint
	Oil or Polyurethane Finish

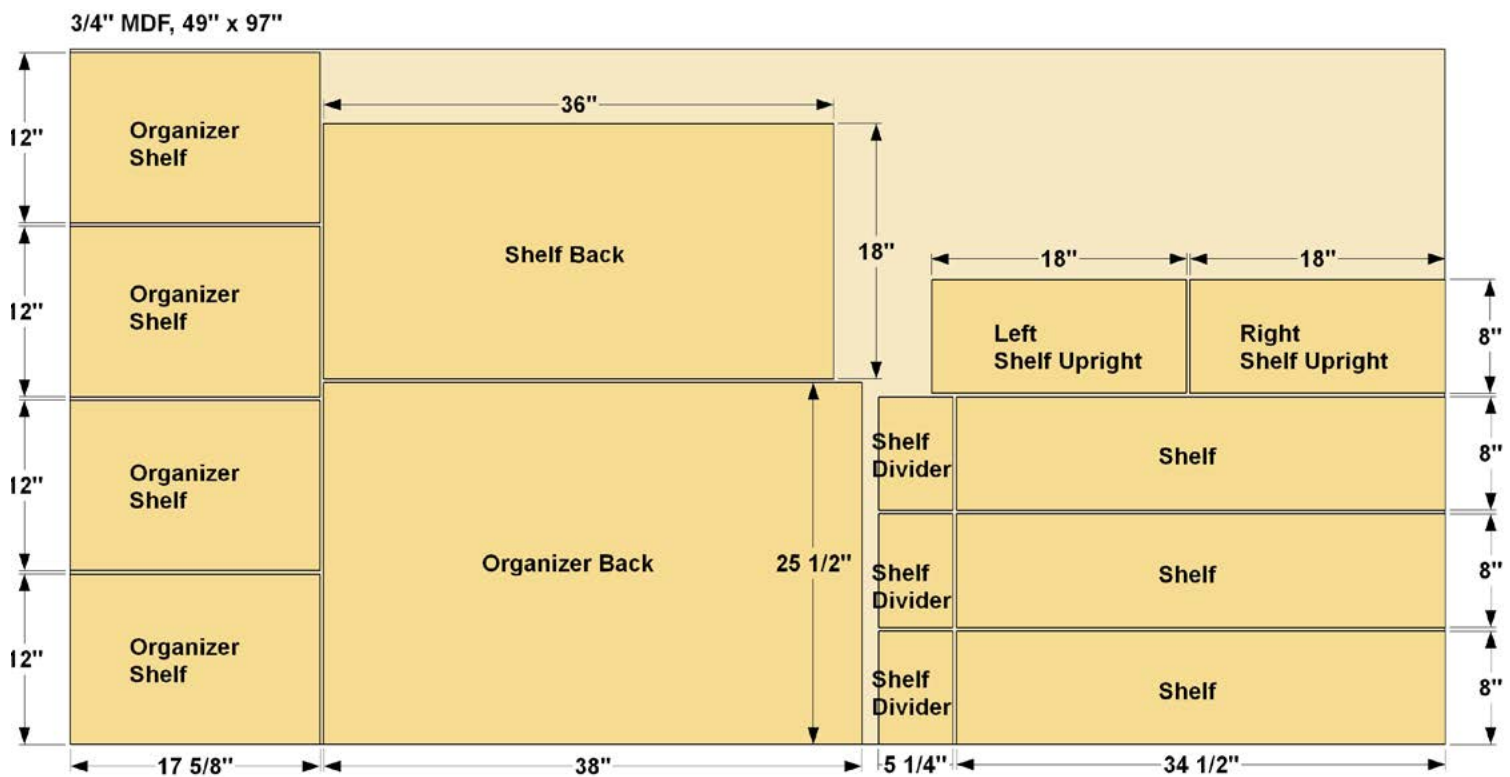
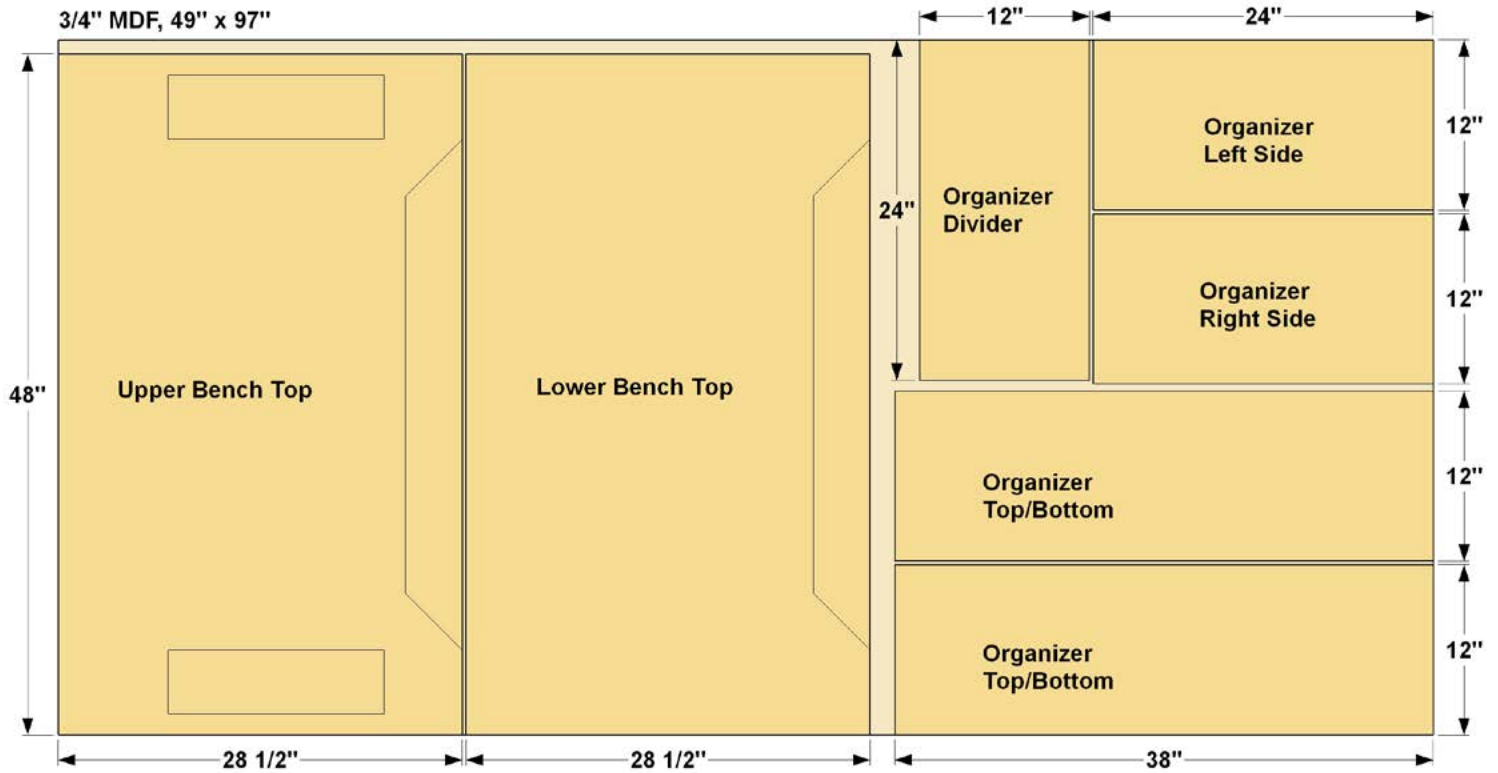
Tools:

Drill/Driver
Kreg Jig®
Miter Saw
Circular Saw
Jig Saw
Tape Measure

Shelf Pin Jig
Compass
Sandpaper and Sander

Optional Tools:
Kreg Square-Cut™

Cutting Diagram:



Cutting Diagram (continued):

4 x 4 x 96"



4 x 4 x 96"



2 x 4 x 96



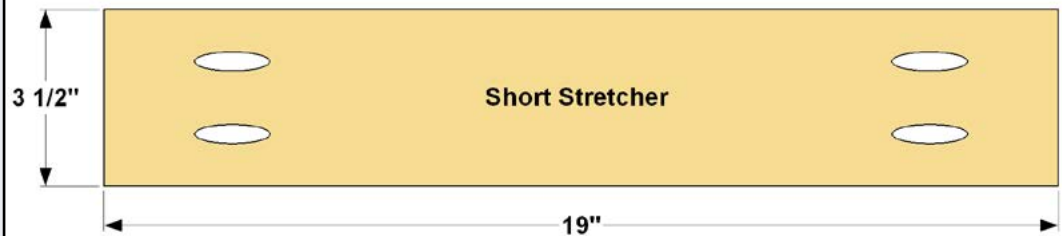
2 x 4 x 96



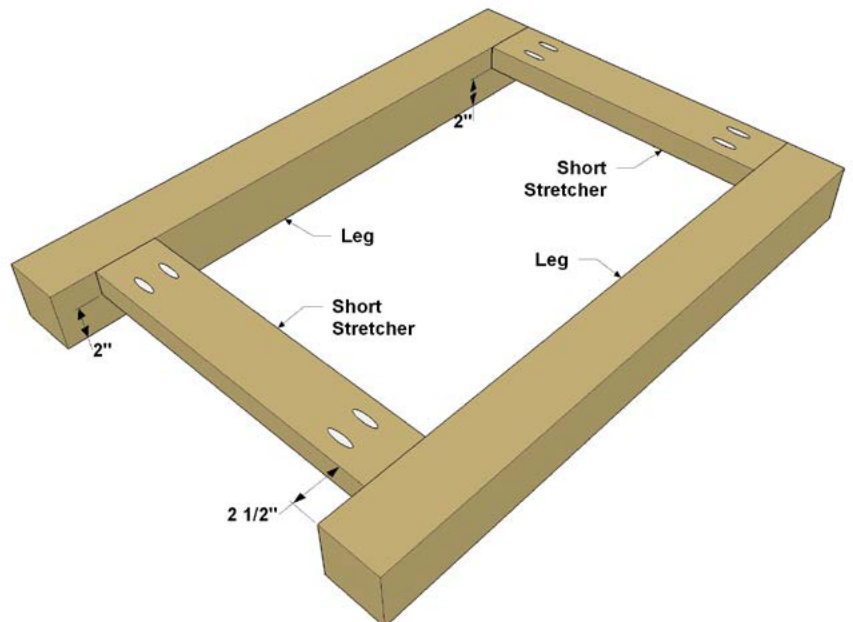
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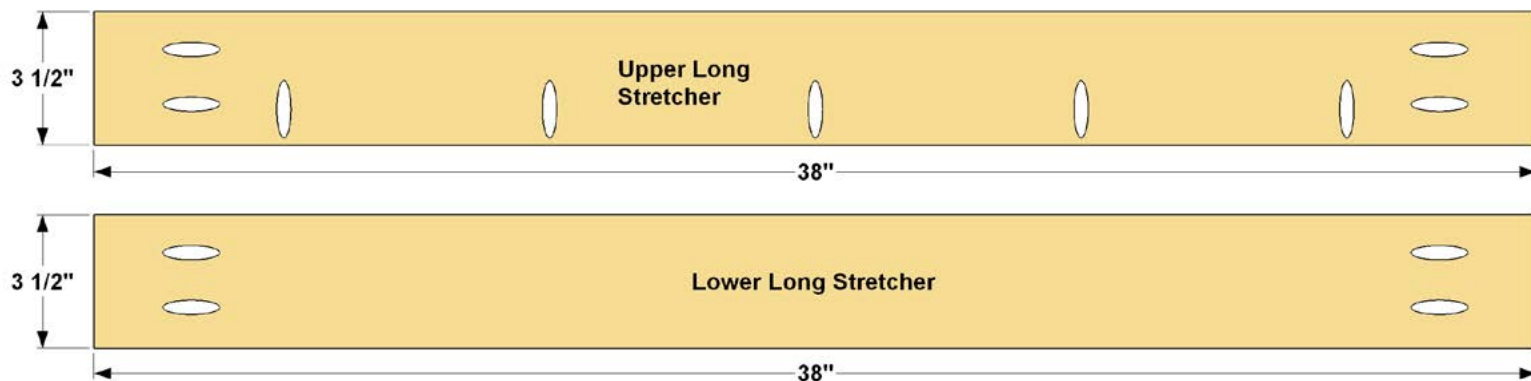


Step 1: Start by cutting four Legs to length from 4x4 boards. Then cut four Short Stretchers from 2x4 boards, as shown in the cutting diagram. Next, with your pocket hole jig set up for 1 1/2" material, drill pocket holes in the Short Stretchers where shown.



Step 2: Assemble the bench ends by attaching the Short Stretchers to the Legs using 2 1/2" pocket hole screws, as shown.

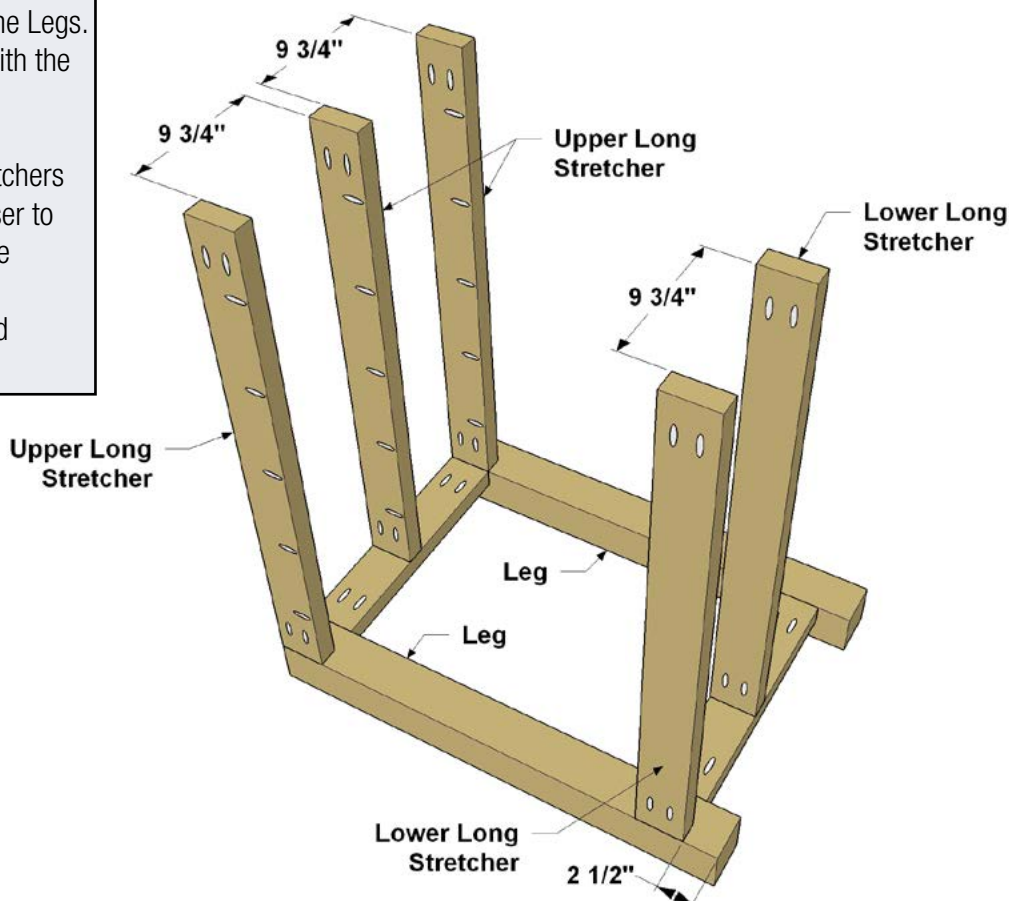


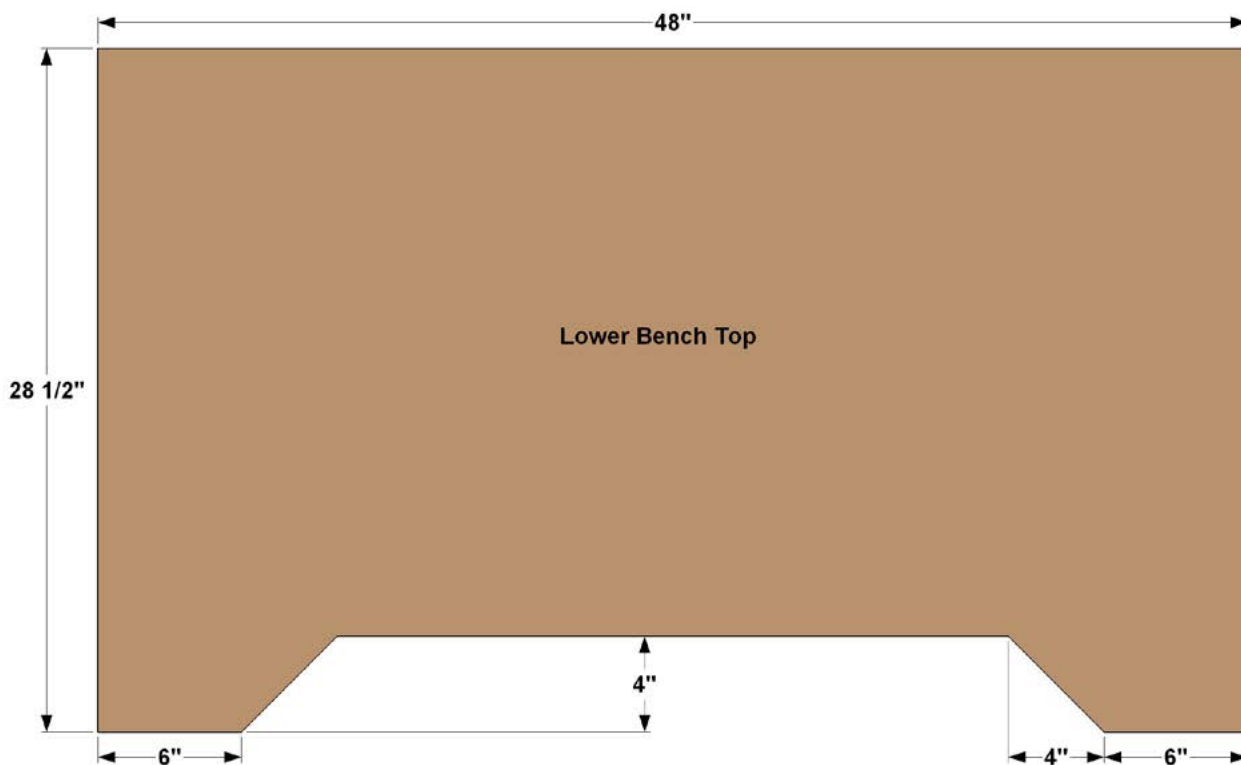


Step 3: Cut five Long Stretchers to length from 2x4 boards, as shown in the cutting diagram. With your pocket hole jig set up for 1 1/2" material, drill pocket holes in three of pieces to create three Upper Long Stretchers. Then, create two Lower Long Stretchers by drilling those pocket holes where shown.

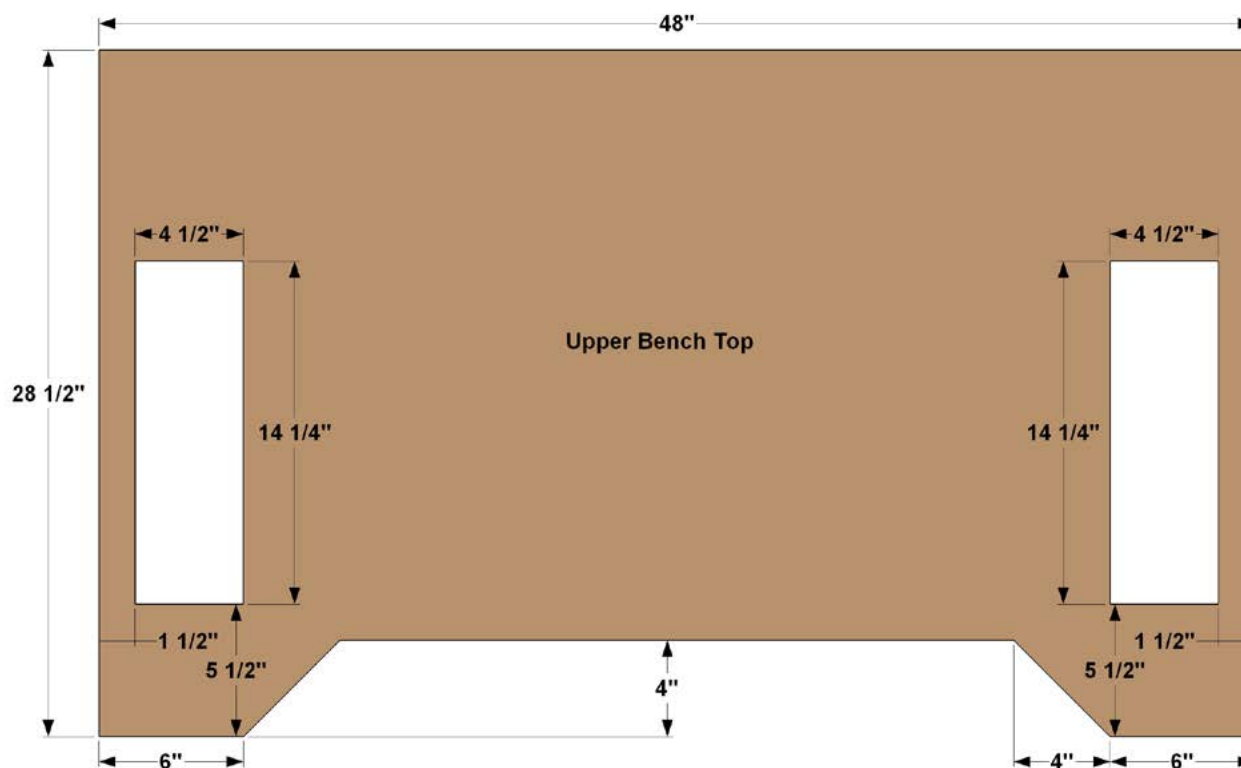
Step 4: Now you can attach the Upper Long Stretchers and Lower Long Stretchers to the one of the end assemblies using 2 1/2" pocket hole screws. Note that the end assembly should be positioned so that the Short Stretchers are positioned toward the inside. Also, pay attention to the positions of the Stretches. The ones at the rear are flush with the *outer* face of the Legs. The front Upper Long Stretcher is flush with the *inner* face of those legs.

Finally, note that the other two Long Stretches aren't centered. They're both slightly closer to the back of the bench base. That way, the organizer you'll add later can rest on the Stretches. Once you've attached one end assembly, attach the other one.





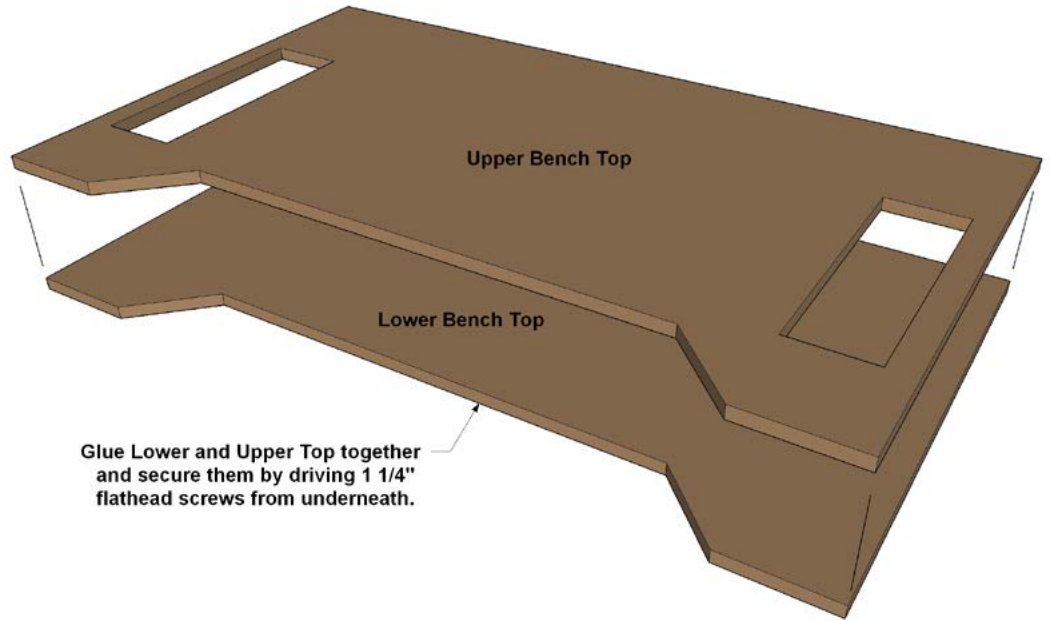
Step 5: Now you can create the bench top. It's made of two layers of MDF (Medium Density Fiberboard). First, cut one Lower Bench Top to size from 3/4" MDF, as shown in the cutting diagram. Then lay out and cut the recess along the front edge using a jigsaw.



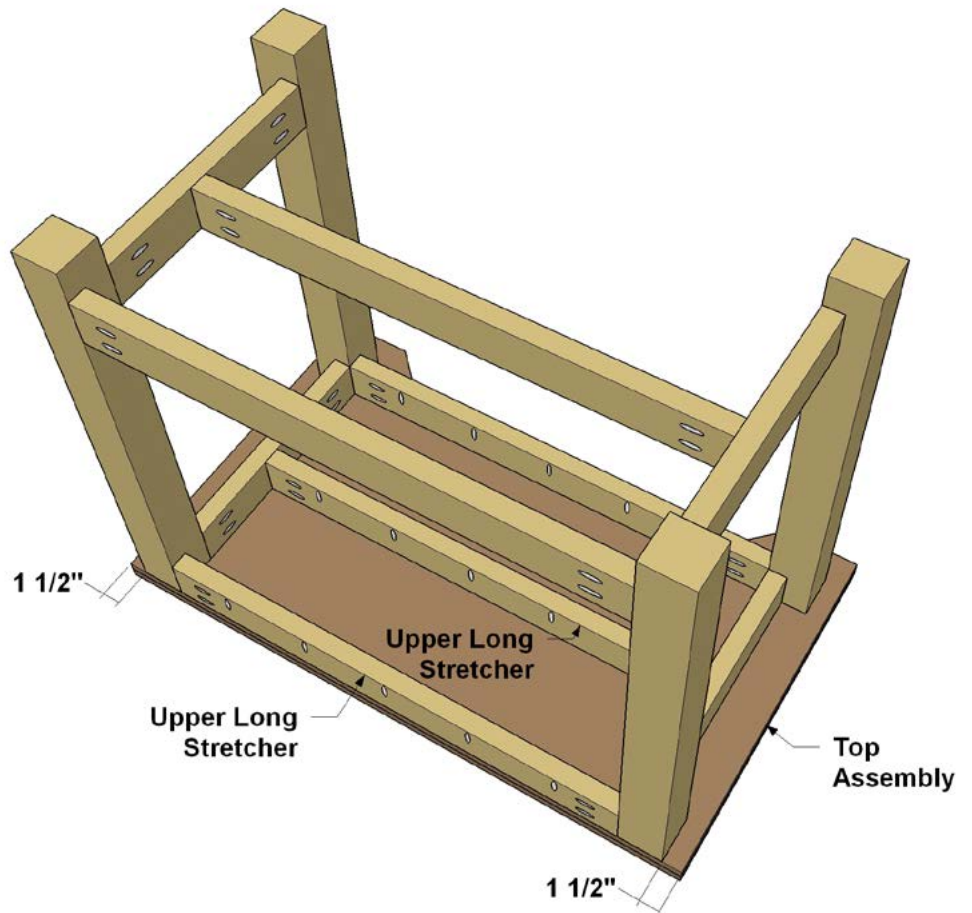
Step 6: Cut one Upper Bench Top to size from 3/4" MDF, as shown in the cutting diagram. Then lay out and cut the recess along the front edge using a jigsaw. Next, lay out and create the tray openings. Start by drilling a hole at each corner, then cutting along the lines with a jigsaw.

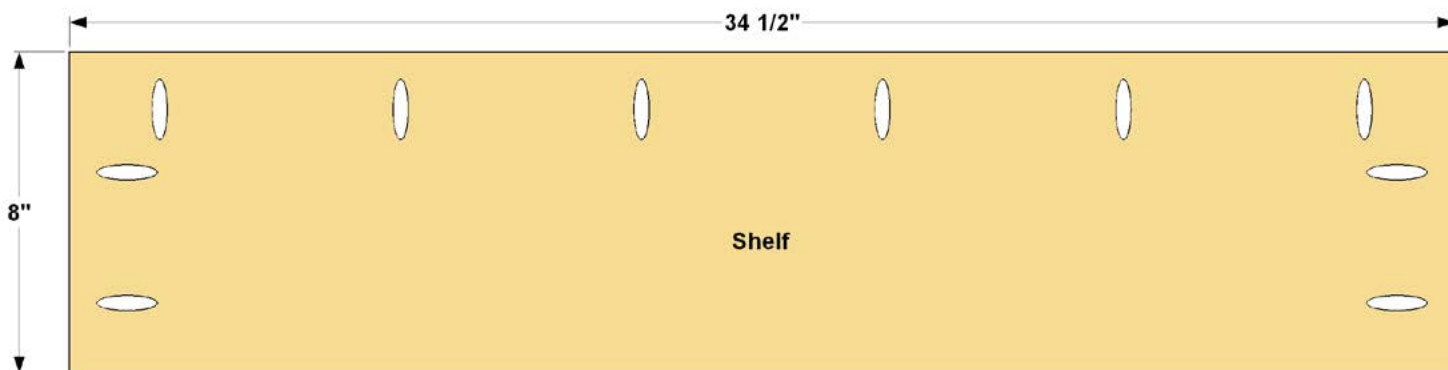
Step 7: Now you can join the Upper Bench Top to the Lower Bench Top. Spread wood glue on the underside of the Upper Bench Top, and then lay the Lower Bench Top in position. Clamp the pieces together, and then drill pilot holes and drive 1 1/4" flathead screws through the Lower Bench Top and into the Upper Bench Top.

You don't need to worry about exact screw placement, except to avoid driving screws into the tray areas. Sand the edges of the top assembly as needed to make sure the edges are all flush on both pieces.

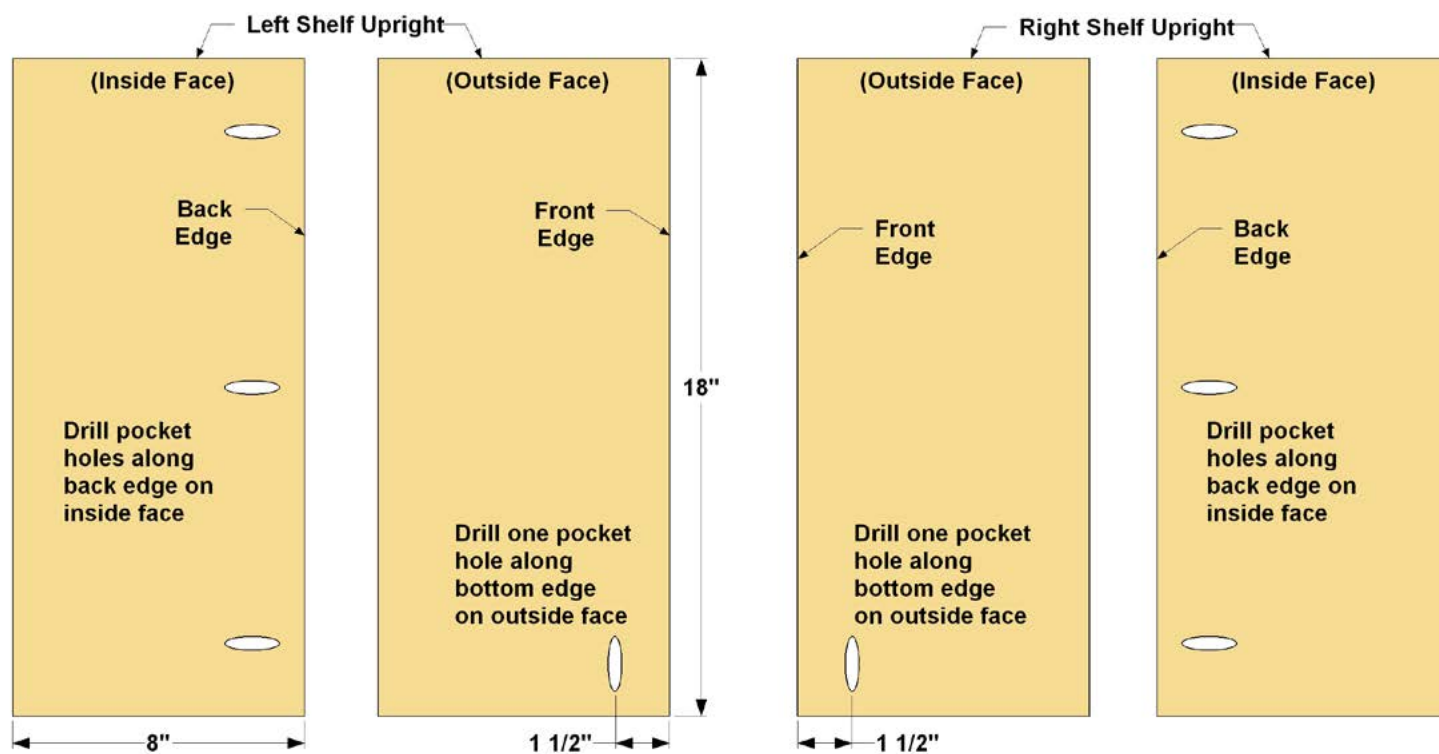


Step 8: Now you can attach the top assembly to the bench base using 1 1/2" pocket hole screws. Make sure the top assembly is flush with the bench Legs at the back, and that the top assembly overhangs equally on each end.

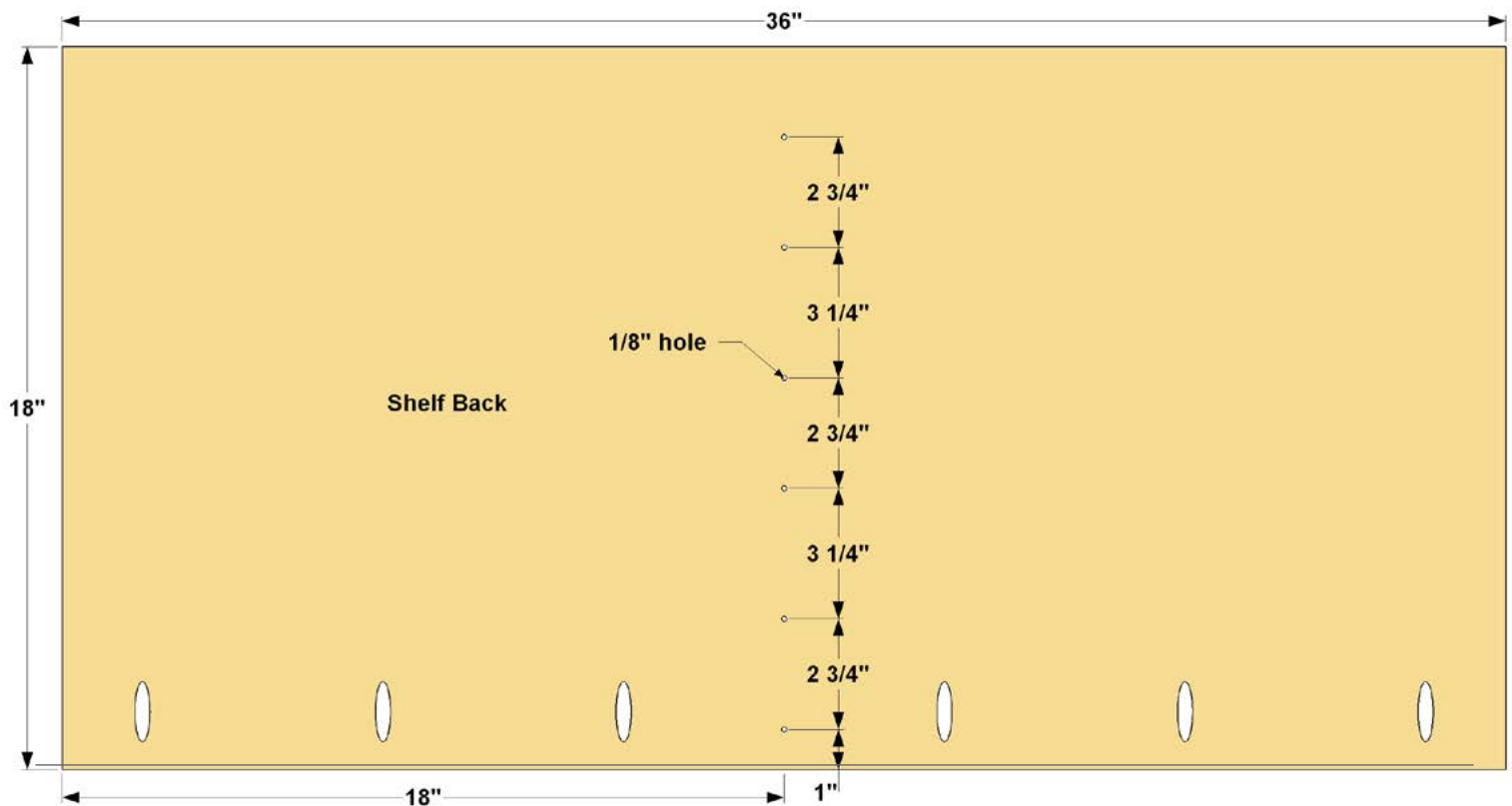




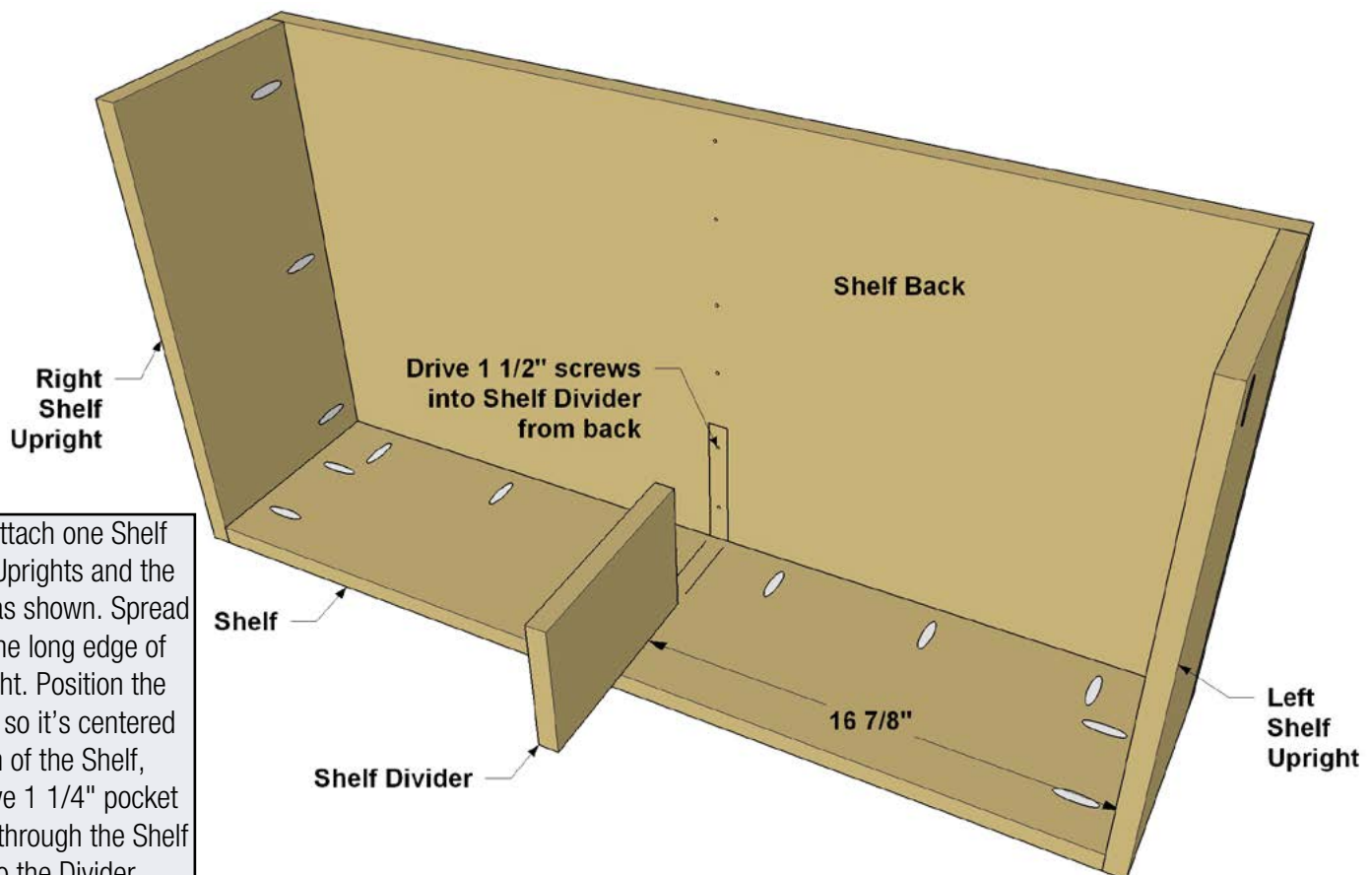
Step 9: Cut three Shelves to size from 3/4" MDF, as shown in the cutting diagram. Cut three Shelf Dividers while you're at it. Then, with your pocket hole jig set up for 3/4" material, drill pocket holes in the Shelves, as shown.



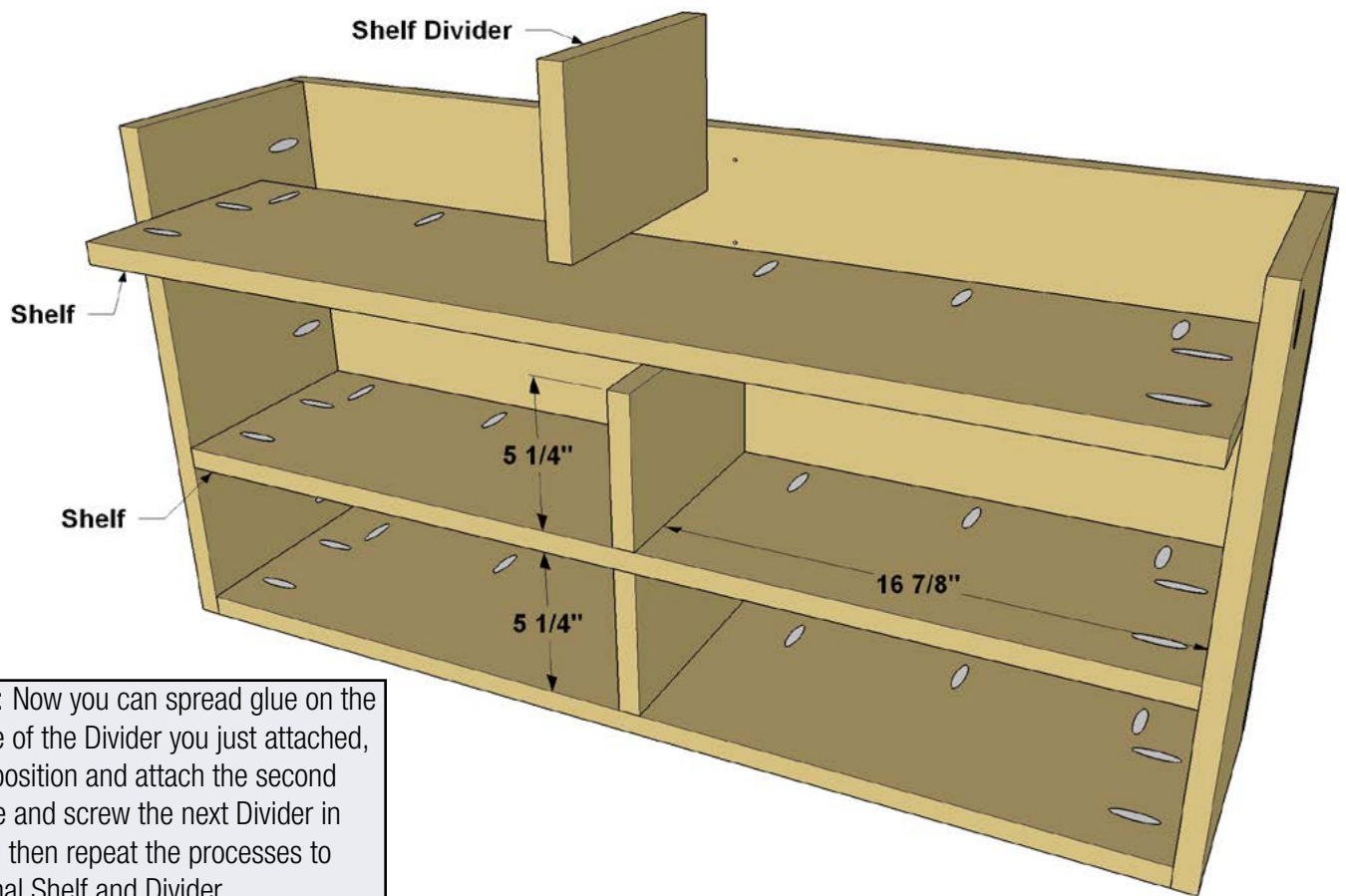
Step 10: Cut two Shelf Uprights to size from 3/4" MDF, as shown in the cutting diagram. Then drill pocket holes where shown with your pocket hole jig set up for 3/4" material. Note that you need to create a "matched pair" of uprights. You'll drill pocket holes along the back edge of each one on the inside face. Then you need to drill one pocket hole in the outside face of each upright, as shown.



Step 11: Cut a Shelf Back to size from 3/4" MDF, as shown in the cutting diagram. Then drill pocket holes where shown. After that, you need to drill a row of holes through the Shelf Back, as shown. These will be used for screws that attach the Shelf Dividers.

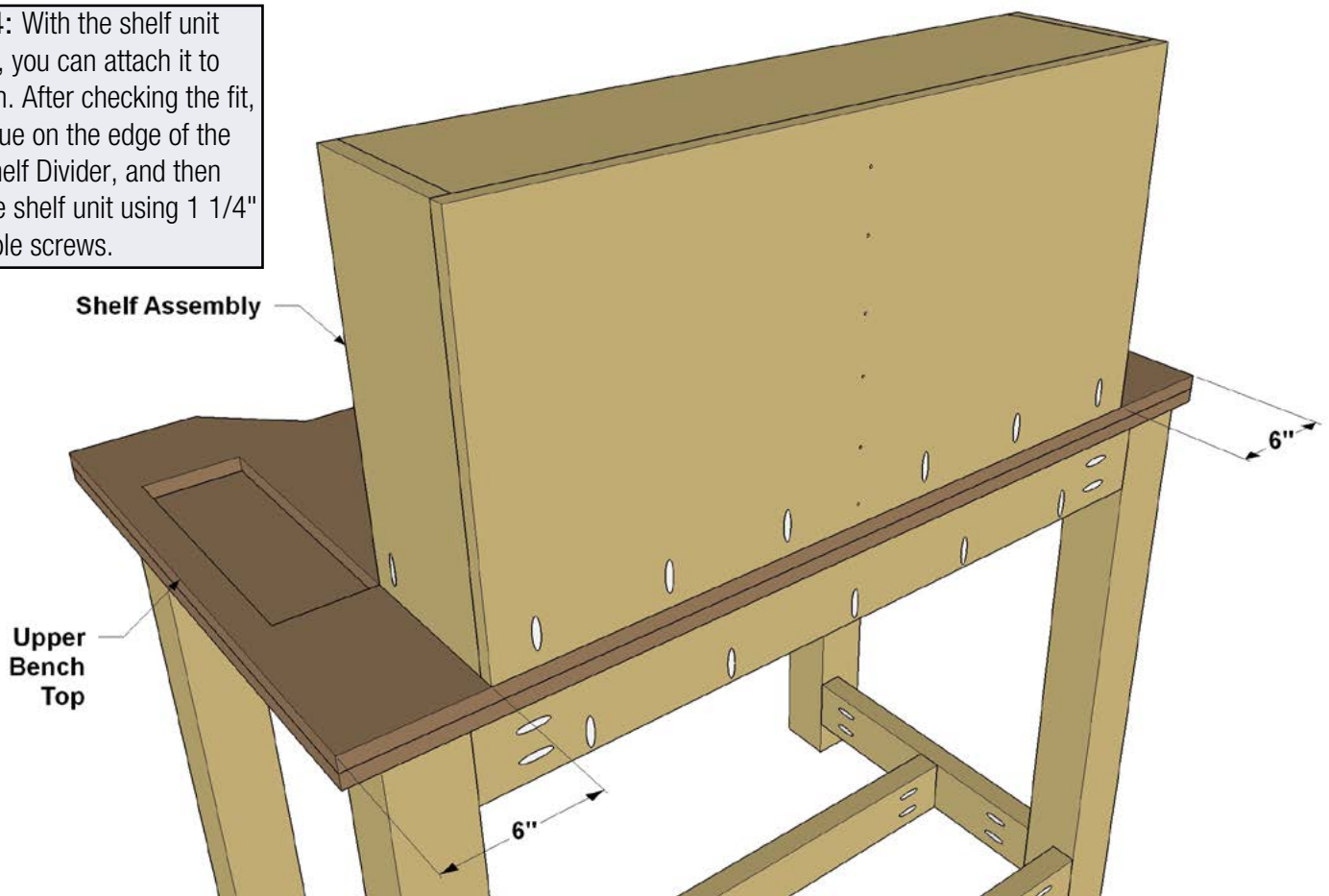


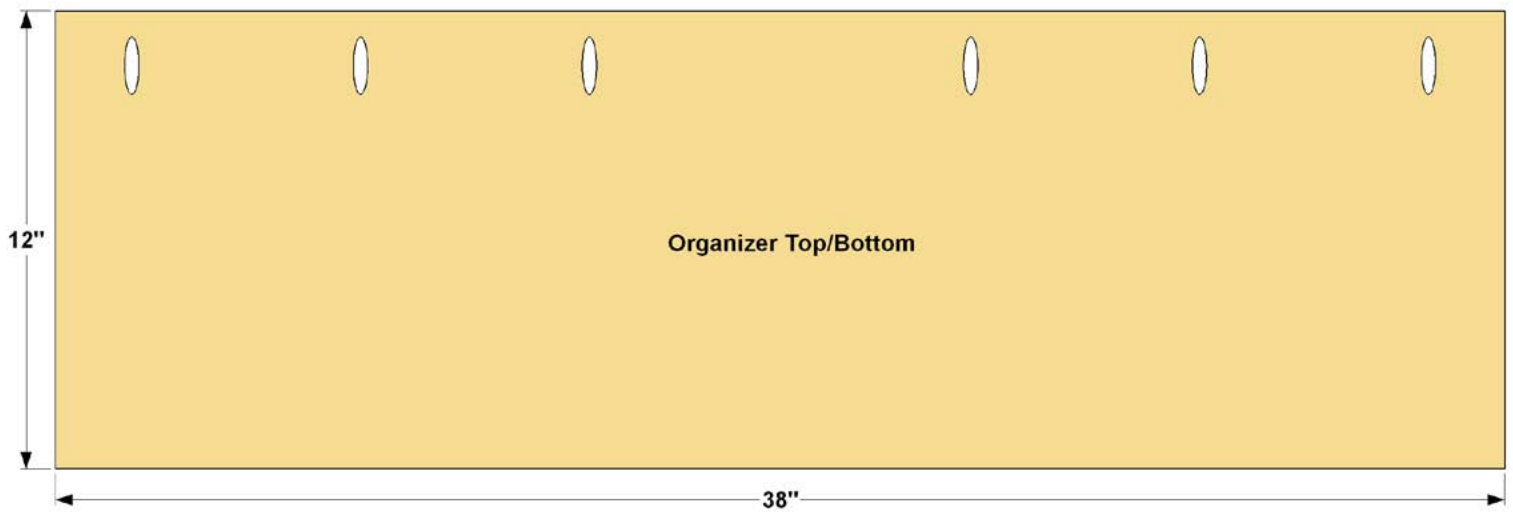
Step 12: Attach one Shelf to the Shelf Uprights and the Shelf Back, as shown. Spread glue along one long edge of a Shelf Upright. Position the Shelf Divider so it's centered on the length of the Shelf, and then drive 1 1/4" pocket hole screws through the Shelf Back and into the Divider.



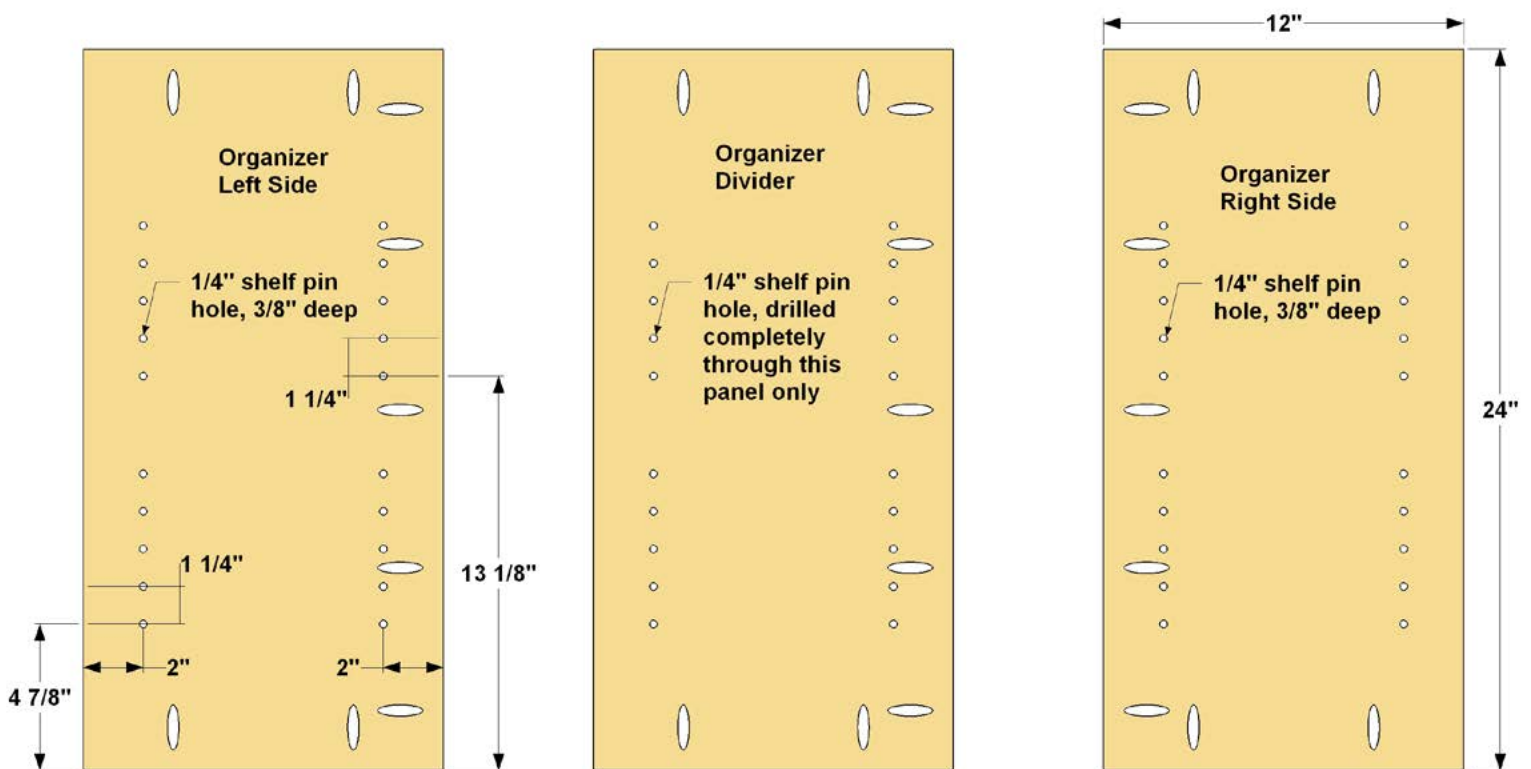
Step 13: Now you can spread glue on the other edge of the Divider you just attached, and then position and attach the second Shelf. Glue and screw the next Divider in place, and then repeat the processes to add the final Shelf and Divider.

Step 14: With the shelf unit complete, you can attach it to the Bench. After checking the fit, spread glue on the edge of the lowest Shelf Divider, and then attach the shelf unit using $1\frac{1}{4}"$ pocket hole screws.



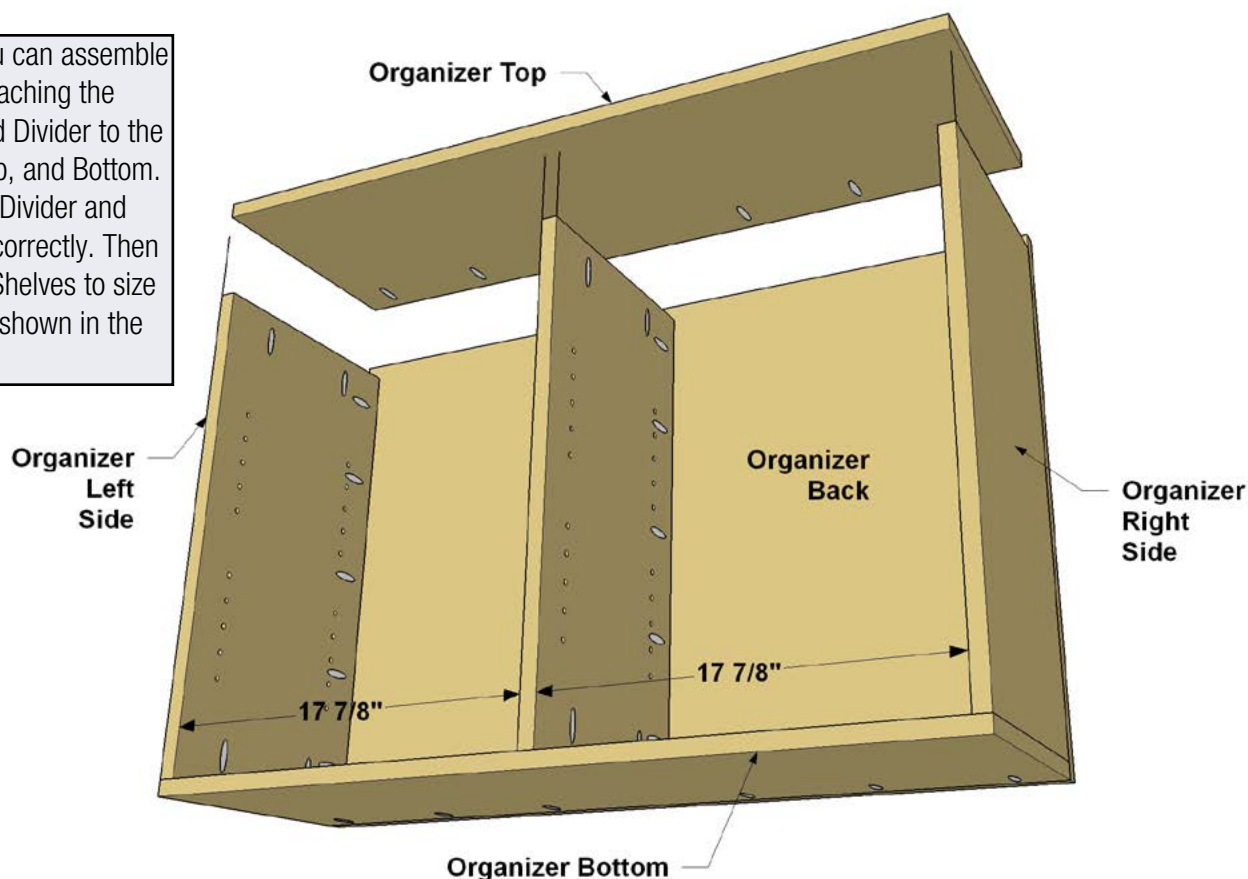


Step 15: Cut one Organizer Back, one Organizer Top, and one Organizer Bottom to size from 3/4" MDF, as shown in the cutting diagram. With your pocket hole jig set up for 3/4" material, drill pocket holes in the Organizer Top and Bottom as shown.



Step 16: Cut one Left Organizer Side, one Organizer Divider, and one Right Organizer Side to size from 3/4" MDF. Then you need to drill shelf pin holes in these parts. Before you do this, mark the bottom edge of each piece so you get all of the holes positioned correctly. Note that the Divider needs holes in both faces. After you drill the shelf pin holes, drill pocket holes, as shown, with your pocket hole jig set up for 3/4" material.

Step 17: Now you can assemble the organizer by attaching the Organizer Sides and Divider to the Organizer Back, Top, and Bottom. Make sure that the Divider and Sides are oriented correctly. Then cut four Organizer Shelves to size from 3/4" MDF, as shown in the cutting diagram.



Step 18: Now slip the organizer assembly into the bench. Drill a pair of pilot holes along the front edge of the Organizer Top, and a pair in the Organizer Bottom. Attach the organizer to the Long Stretchers using four 1 1/4" wood screws. Then you can paint or finish the bench. We used paint on the base and outer portions of the shelf unit and organizer, then coated the bench top and remaining surfaces with a penetrating oil finish.

