

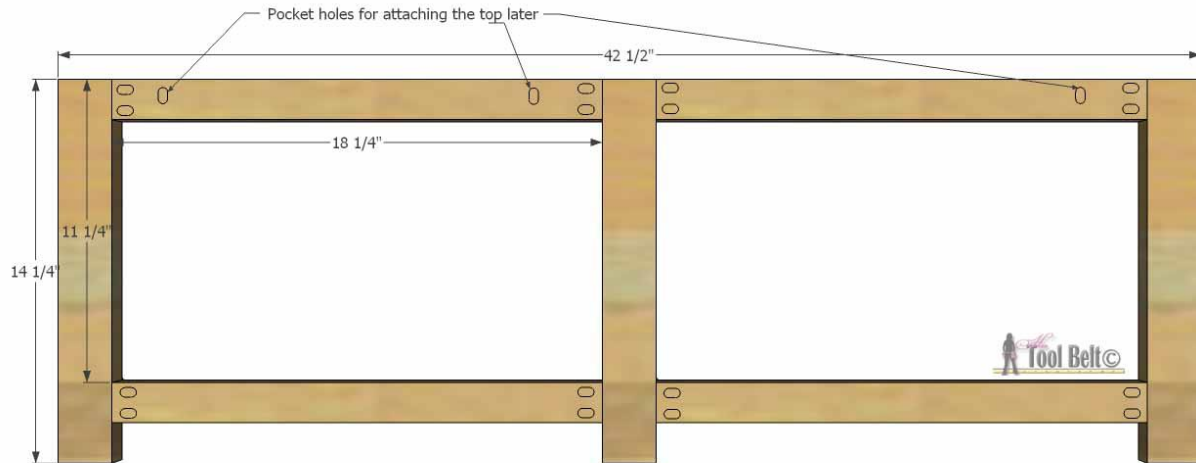
# Crate Storage Coffee Table

(by Her Tool Belt for Ryobi Nation)

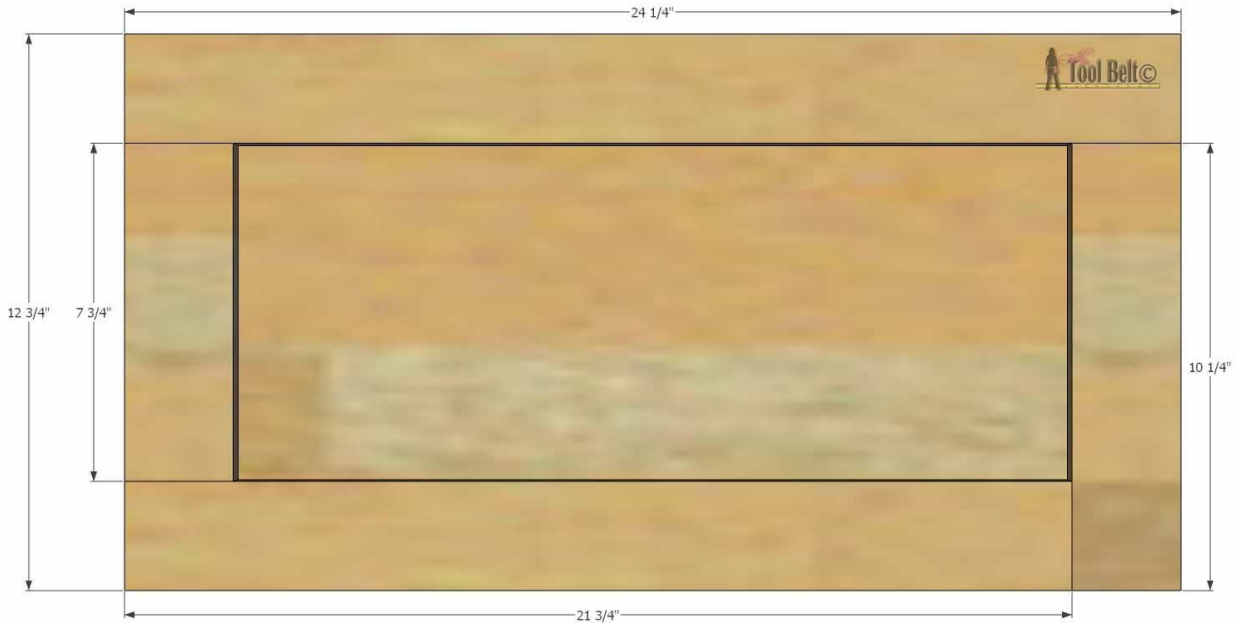


Materials Needed Crate Table		
4 – large crates	Paint/Stain/Top Coat	5/8” brad nails
2 – 2” x 8” x 8’ wood	Wood glue	4 – swivel casters (optional)
1 – 2” x 4” x 8’ wood	1 1/4” pocket hole screws	4 – cup cabinet pull (optional)
2 – 1” x 4” x 8’ wood	2 1/2” pocket hole screws	64 – Upholstery nails (optional)
2 – 1” x 3” x 8’ wood	1 1/4” brad nails	8’ plastic hanger strap (optional)
1 – 1/2” sheet of plywood	Sand paper	Staples
3 – 1/4” x 2 1/2” x 4’ poplar		
Materials Needed for Stools		
Crate	1/2” plywood	2” foam
Batting	Cloth material	Staples
2 – 2 1/2” narrow utility hinges	4 – swivel casters (optional)	Paint/Stain

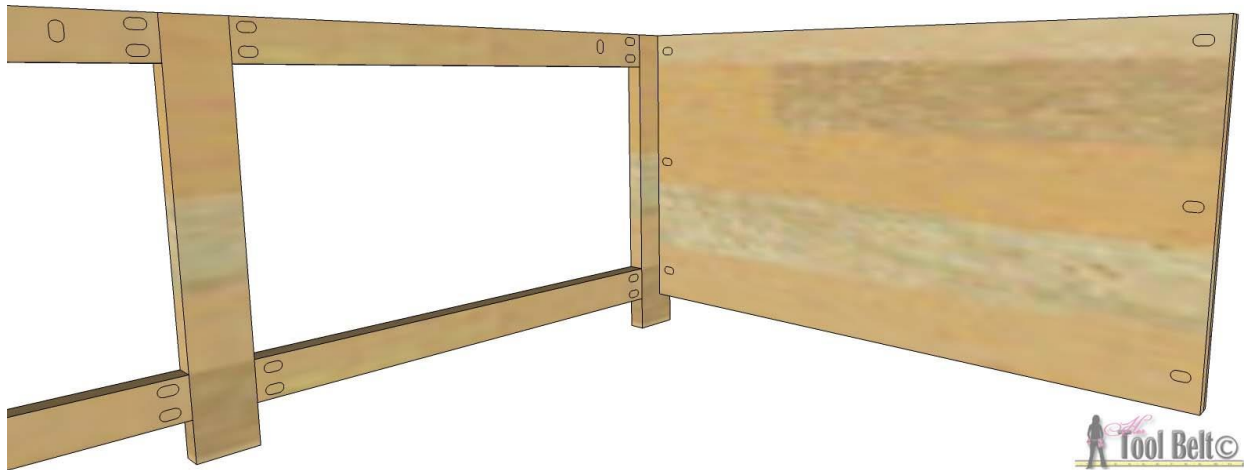
Crate Table Cut List					
Quantity	Thickness	Width	Length	Material	Description
8	3/4"	1 1/2"	18 1/4"	1x4	Face frame H
6	3/4"	1 1/2"	14 1/4"	1x4	Face frame V
2	1/2"	24 1/4"	12 3/4"	1/2" plywood	Side panels
2	1/4"	2 1/2"	24 1/4"	Poplar	Side accents
2	1/4"	2 1/2"	21 3/4"	Poplar	Side accents
2	1/4"	2 1/2"	9 3/4"	Poplar	Side accents
2	1/4"	2 1/2"	7 3/4"	Poplar	Side accents
3	1 1/2"	3 1/2"	24 1/4"	2x4	Bottom supports
1	3/4"	2 1/2"	41"	1x3	Center divider
2	3/4"	2"-2 1/2"	42 1/2"	1x3	Molding
2	3/4"	2"-2 1/2"	27 1/4"	1x3	Molding
2	3/4"	2"	11 1/2"	1x4	Drawer guide
4	3/4"	1 1/4"	11 1/2"	1x4	Drawer guide
4	1 1/2"	7"	30 3/4"	2x8	Top
2	1 1/2"	7"	28"	2x8	Top
Crate Stool Cut List					
1/each	1/2"	12 1/4"	18"	1/2" plywood	Lg crate lid
1/each	1/2"	9 1/2"	11 3/4"	1/2" plywood	Sm crate lid



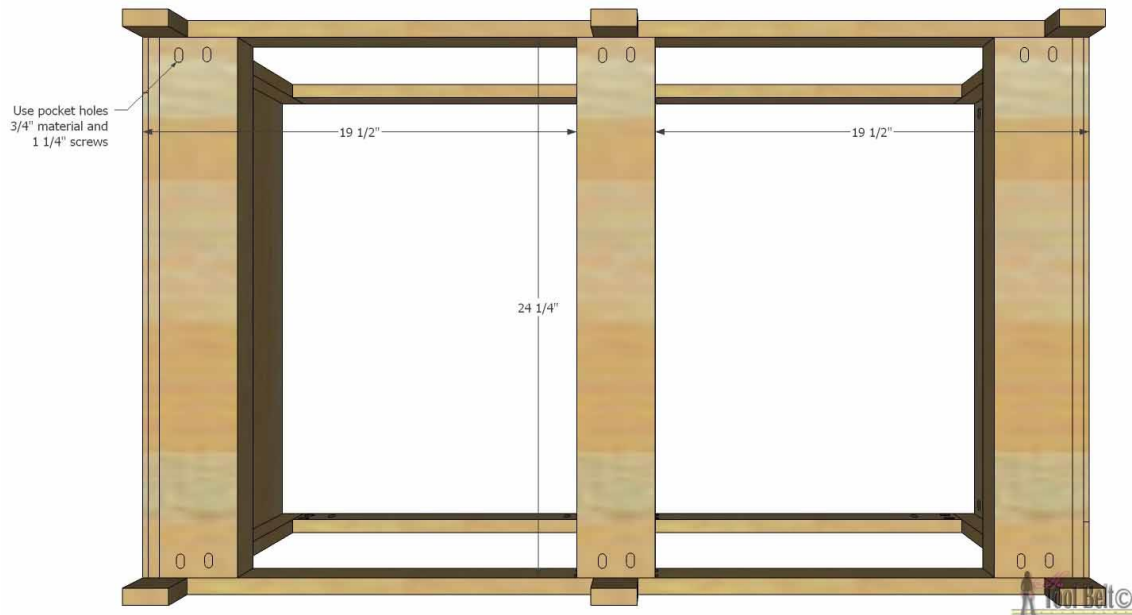
Cut the face frame pieces. On the backside of each of the 8 - 18 1/4" face frame pieces, drill 2 pocket holes on each end. On 4 of the boards drill a vertical pocket hole to attach the top later. On each of the 6 - 14 1/4" face frame pieces measure and mark 11 1/4" from the top. Make 2 face frames, 2 - 18 1/4" pieces at the top and 2 at 11 1/4". Use wood glue and 1 1/4" screws to join the wood together.



Cut the side panels and side accent pieces. Use wood glue and 5/8" brad nails, add the side accent pieces around the side panels.



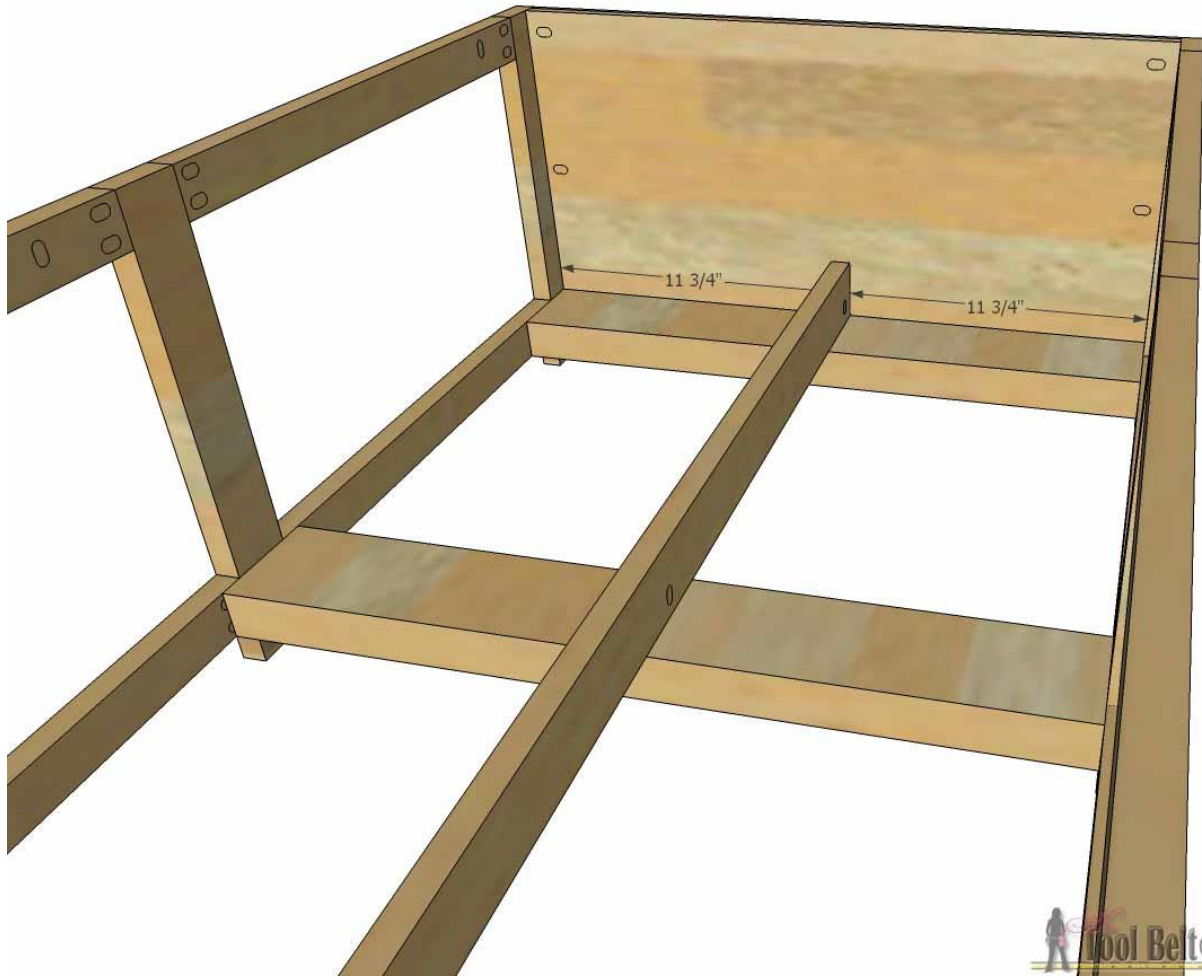
Drill 3 pocket holes on the backside of each side panel end. Use wood glue and 1 1/4" screws to attach one side of the panel to the face frame. Make the tops flush and the front of the side panel flush with the end of the face frame. Repeat for the other side panel.



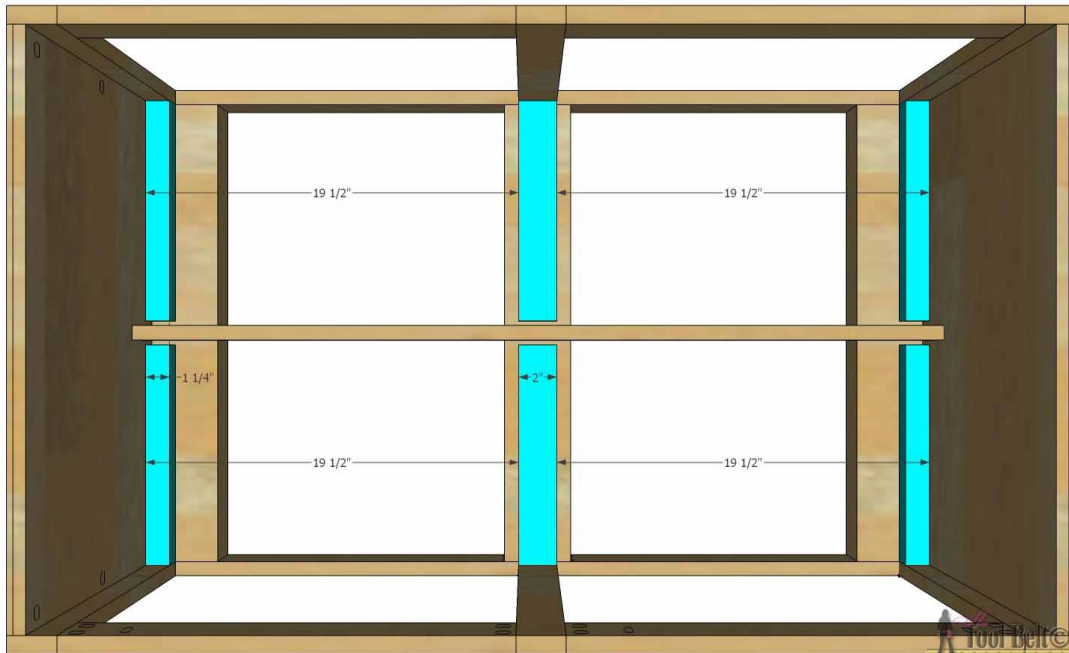
Drill pocket holes for  $\frac{3}{4}$ " material in the ends of each 2x4 bottom support. Drill a couple pocket holes facing the sides on 2 of the bottom supports. Use wood glue and  $1\frac{1}{4}$ " screws to attach bottom supports to the face frame and side panels. Center the middle support with the face frame center vertical piece. Make the 2x4 flush with the face frame opening so the crates will slide smoothly.

Attach the other face frame to the side panels and bottom supports with wood glue and  $1\frac{1}{4}$ " screws.

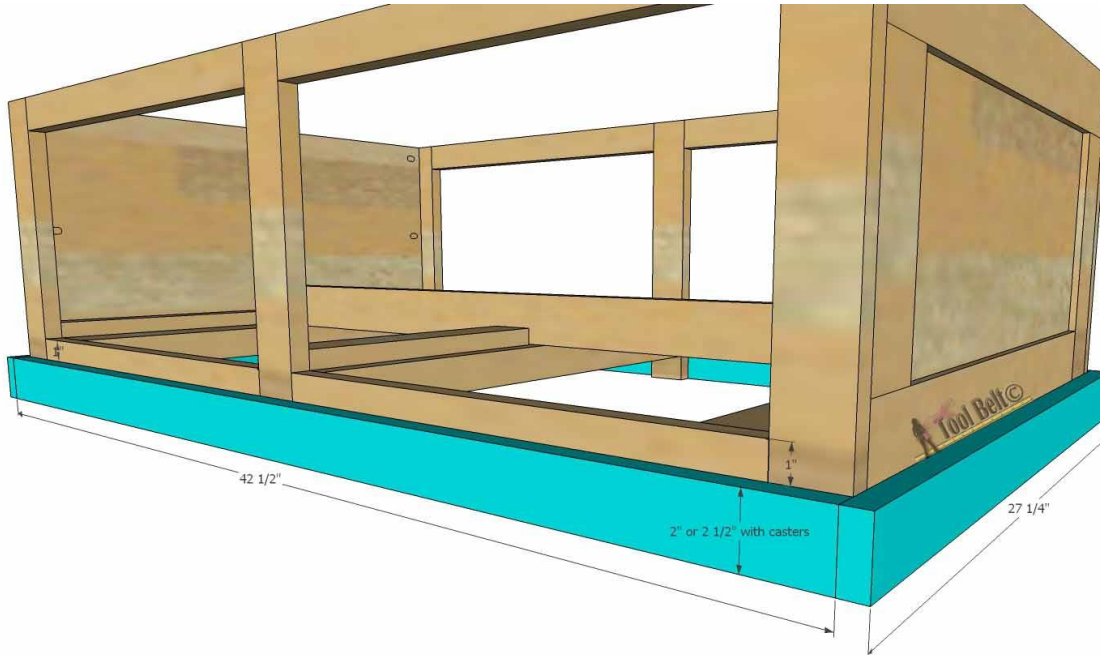
Optional – I decided to add swivel casters to my table so I could easily move it while vacuuming, etc. The casters are not necessary, but will be mostly hidden by the molding. Attach swivel casters to the bottom support. Rotate caster around and make sure there is plenty of room for the molding later.



On the inside of the table, measure and mark on the supports from the inside face frame  $11 \frac{3}{4}$ ". Dryfit center divider and trim as necessary. Add 3 or so pocket holes in the center divider to attach it to the bottom supports. Use  $1 \frac{1}{4}$ " screws to attach the center divider to the supports. The center divider is the backstop for the crates.

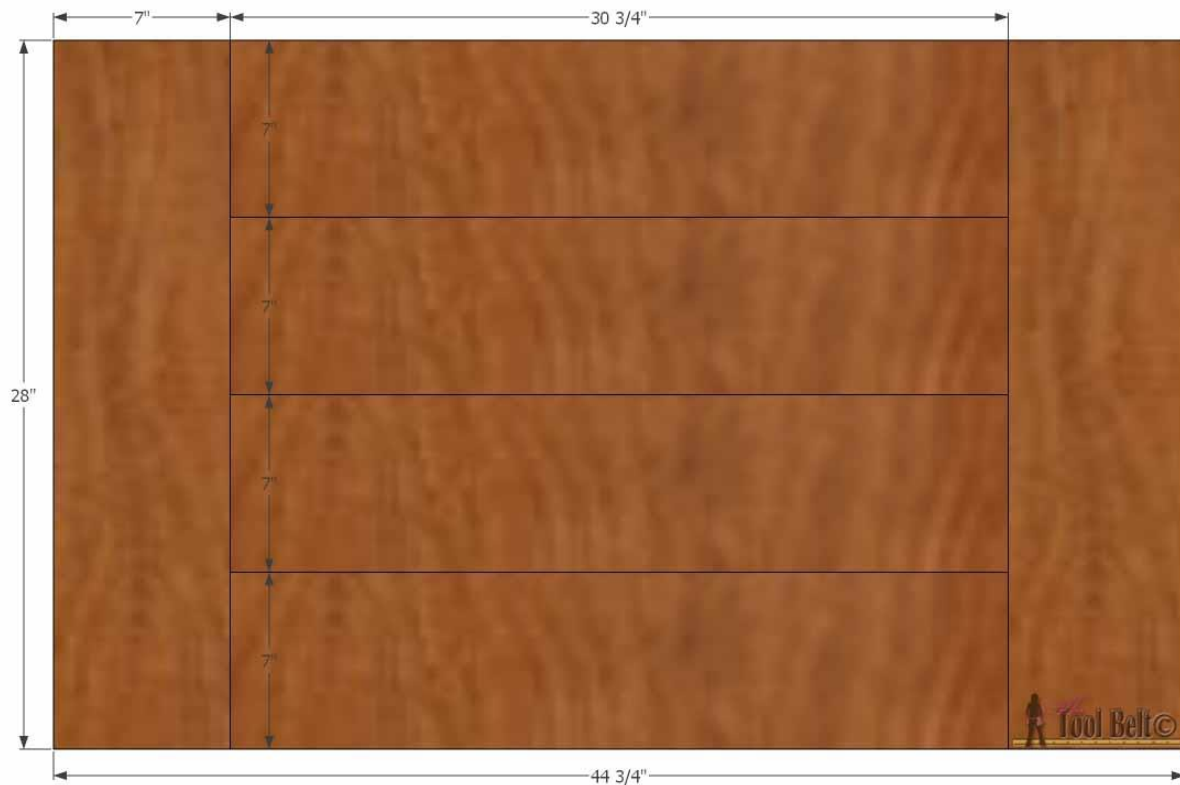


Attach 2 -2" drawer guides with wood glue and 1 1/4" brad nails, these should be flush with the center face frame piece and 19 1/2" from the side panels. Attach 4 - 1 1/4" drawer guides with wood glue and 1 1/4" brad nails flush with the side openings of the face frame. The drawer guides help the crate slide in straight.



From the bottom of the face frame opening, measure and mark 1" in a few places. Use wood glue and 1 1/4" brad nails to attach the 42 1/2" molding pieces to the front and back of the table. The molding edges should be flush with the sides, trim as necessary. Attach the 27 1/4" molding pieces flush with the other molding pieces. Dry fit the large crates and make sure they fit nicely through the face frame and on the bottom

supports. Make any adjustments as necessary. (Note: I haven't installed the molding yet in this picture)  
Sand, sand, sand finishing with 120-150 grit. Paint or stain the table as desired. I primed the table and crates and painted them with white latex paint.



Cut the top pieces, 4 @ 30 3/4" and 2 @ 28". When using 2 x 8 for tops, I like to trim down the sides with a table saw to get a straight edge. The widths of the 2x8's are trimmed down to 7" wide.

Drill pocket holes for 1 1/2" material in the top boards, about 5 holes along each joint, 1 on each end. Use wood glue and 2 1/2" screws to join the top pieces together. Sand, sand, sand finishing with 120-150 grit. Paint or stain the top as desired. I used wood conditioner then applied 2 coats of Varathane Carrington stain and finished with Varathane satin polyurethane.

Once all of the pieces dried I attached the table to the top with 1 1/4" screws. To help with the sliding motion and save the paint surfaces, I stapled plastic hanger strap on the bottom supports (optional). Cut the plastic hanger strap flush with the front and if needed hammer down the staples.

I added a cup cabinet pull to each crate and decorated the crates by hammering upholstery nails into each slat.