



# CARVEWRIGHT™

## WOODWORKING SYSTEM

PROJECT  
BASIC  
DIFFICULTY

### PROJECT TUTORIAL

## The Bread Crib

Designed for CarveWright™ by Michael Tyler - [www.carvebuddy.com](http://www.carvebuddy.com)



The Bread Serving Crib will make an excellent addition to a holiday table, or for everyday use anytime! Place a linen or decorative napkin inside the "crib" and serve rolls, croissants, muffins, bagels or any item of your choice.

The project uses just the 1/16" Carving Bit and the 1/8" Cutting Bit. No other bits are required.

The overall finished dimensions of the assembled project are about 18½" long x 7½" wide x 4" tall.



Main items you will need:

**1) The Project Files (included):**

- Bread\_Crib\_Panels.mpc
- Stringers.mpc

**2) Boards with the following dimensions:**

**Panels:** 0.75" x 11" x 27"

**Stringers:** 0.50" x 5.5" x 14"

**NOTE:** Do not use boards that are smaller than specified above.

**3) Clamps, wood glue, sandpaper, wood stain and/or paint and clear finish**

**4) 5/16" and 5/8" diameter dowels**  
(You will need three 4 ft. lengths of 5/16" dowels and about 2 ft. of 5/8" dowels, which allows for any waste.)

**5) A Dremel-type rotary tool with assorted sanding wheels and bits to sand small details and speed up preparation for finishing.**



## STEP 1

Start your Designer software and open the .mpc files. (fig. 1a)

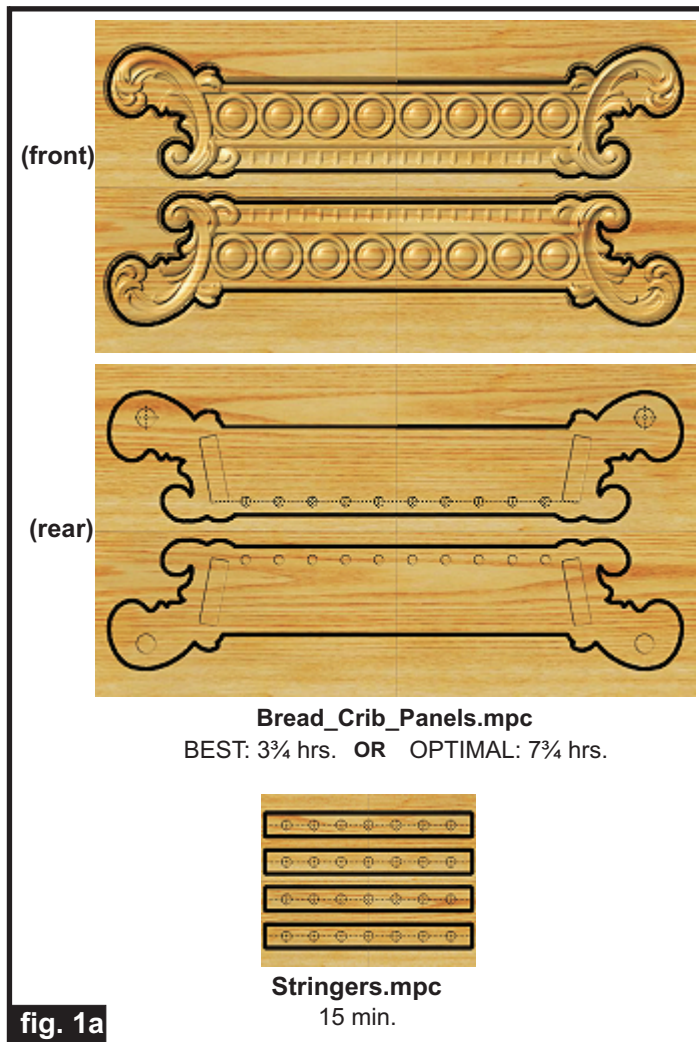


fig. 1a

All you need to do at this point is upload the project files to your memory card. (File/Upload). During upload, you may or may not see a pop-up window with an “Auto-Jig” warning message (fig. 1b)

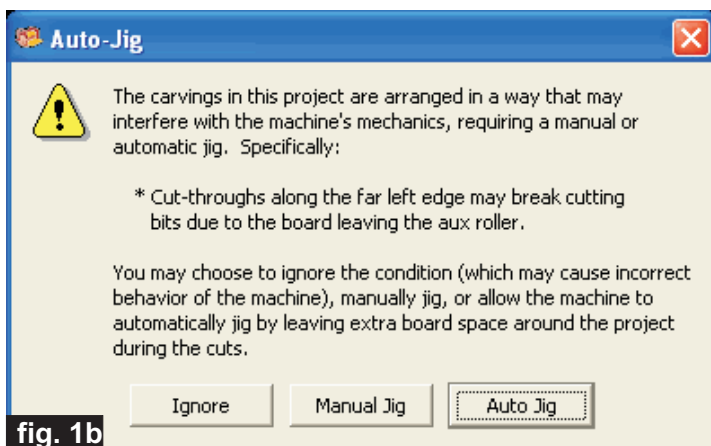


fig. 1b

If you do see the message, you may safely click on “Ignore” because the actual boards will be large enough that it won’t cause any problems at all.

After the project is compiled, select “Best” or “Optimal” for the Quality setting. Click “OK” and upload each mpc project file to your memory card. Insert the card into your machine and load a board that measures the appropriate dimension specified for each particular mpc (see page 1 for board dimensions). Proceed with the project setup in Step 2...

## STEP 2

You will see “Project Menu” on your LCD display. Press “1” then scroll to the **Bread\_Crib\_Panels.mpc** project, and press the green ENTER button. This MPC is a **TWO-SIDED** carve. The machine will carve the dado recesses and drill holes on the **BACKSIDE first**. Follow the additional prompts closely....

- **Stay Under Rollers** - press 1) YES
- **Press Enter to Proceed: Board (BACK)** Press ENTER
- **DO NOT RESIZE or SCALE the projects!** If prompted, always Keep the Original Size. No scaling!
- **How to Place...** - press 1) Center
- **Cut Board to Size?** - press 2) NO
- **Select Drill Bit: 1/8" Cutting** - Press ENTER. The machine will move the bit holder to the center.
- **Load Bit: 1/8" Cutting** - Insert your 1/8" cutting bit, then press the green ENTER button. (homes, etc.)
- **Select Carving Bit: 1/16" Carving** - Press the green ENTER button. (Moves to center of machine.)
- **Load Bit: 1/16" Carving** - Remove the 1/8" cutting bit, and insert your 1/16" carving bit, then press the green ENTER button. After homing and finding surface, the machine will begin the carving process.
- **After it is done carving, you will be prompted to load your 1/8" cutting bit.** Take out the 1/16" carving bit, then insert your 1/8" cutting bit. Press the green ENTER button. The drill holes will be performed.

(cont.)



## STEP 2 (cont.)

• **After it is done with the back, you will be prompted to “Please Flip Piece”.** Raise the head of the machine to remove and flip the board.

• **Please Load Piece: Board** - Brush off the board, and flip the board over width-wise, top-to-bottom (**NOT** end to end! see fig. 2a). Put the board back into the machine (blank side up) and crank down the head.



Flip the board over width-wise

fig. 2a

• Press **ENTER** to Proceed (will measure board again)

• **Select Cutting Bit: 1/8" Cutting** - Press the green ENTER button. The machine will move the bit holder to the center of the machine.

• **Load Bit: 1/8" Cutting** - Just press ENTER since the bit is still in the chuck. (homes, etc.)

• **Select Carving Bit: 1/16" Carving** - Press the green ENTER button. (Moves to center of machine.)

• **Load Bit: 1/16" Carving** - Remove the 1/8" cutting bit, and insert your 1/16" carving bit, then press the green ENTER button. After homing and finding surface, the machine will begin the carving process.

• **After it is done carving, you will be prompted to load your 1/8" cutting bit.** Take out the 1/16" carving bit, then insert your 1/8" cutting bit. Press the green ENTER button. The machine will now proceed to perform the cutouts as it moves around the component outlines. When the machine is finished, remove your board and clean your machine of excess sawdust.

Proceed to run the **Stringers.mpc**. This MPC uses only the 1/8" Cutting Bit. Here is the basic procedure as follows...

• Project Menu - press “1”

• Scroll to the **Stringers.mpc**, load your board and press the green ENTER button. Then follow the additional prompts....

• **Stay Under Rollers** - press 1) YES

• **DO NOT RESIZE or SCALE the projects!** If prompted, always Keep the Original Size. No scaling!

• **How to Place...** - press 1) Center

• **Cut Board to Size?** - press 2) NO

• **Select Cutting Bit: 1/8" Cutting** - Press the green ENTER button. (Moves to center of machine.)

• **Load Bit: 1/8" Cutting** - Insert your 1/8" cutting bit, then press the green ENTER button. (homes, etc.)

• **Select Drill Bit: 1/8" Cutting** - Just press ENTER since the bit is already in the chuck.

The machine will now proceed to perform the drills and then the cutouts.

Your boards will look like this. (fig. 2b)

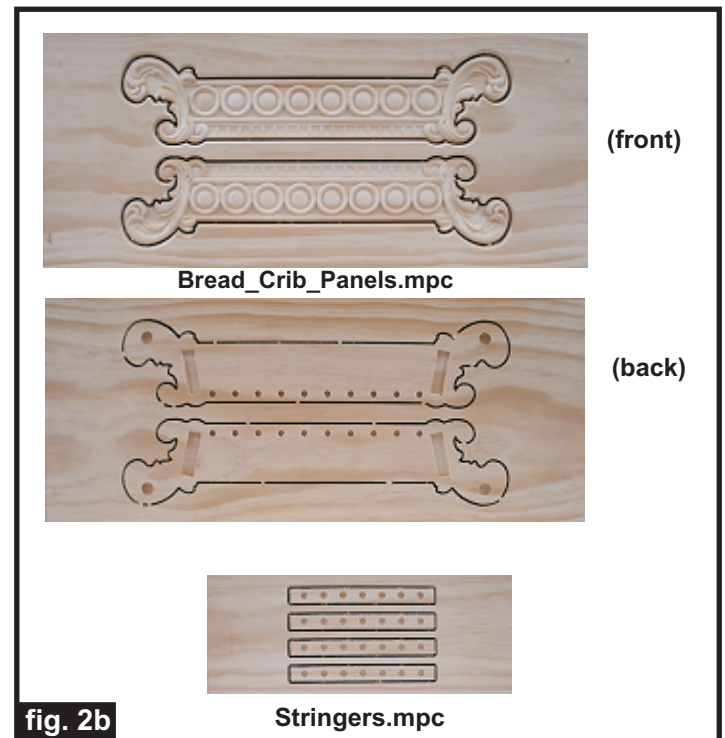


fig. 2b

(cont.)

## STEP 3 - Part Preparation/Sanding

Separate all the pieces from the boards with a utility knife or hobby saw. Sand all the components to remove the tabs, fuzzies and undesirable tool marks. Use a Dremel-type tool with various abrasive wheels and tips to make the job go faster. (fig. 3a, 3b)



fig. 3a



fig. 3b

## STEP 4 - Cut Dowels To Length

Cut the 5/16" diameter dowels into 14 lengths of 17/16" and 10 lengths of 6 1/2". Cut the 5/8" diameter dowels into 2 lengths of 6 1/2".

Dry-fit all the parts together to test the fit and get a feel for assembly before applying glue. 'Ease' the dowel ends with sandpaper, if necessary, so they fit into the holes snugly, but easily. Dowel diameters sold in stores can vary - I bought several and test fit them into the

holes to find the 'best' ones before cutting to length. (fig. 4a, 4b)



fig. 4a



fig. 4b

## STEP 5 - Assembly/Glue-Up

Glue the two stringer parts together. Clamp while the glue sets. (fig. 5a)

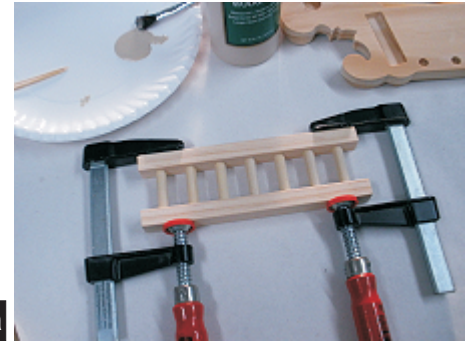


fig. 5a

When set, remove the clamps. Lay one of the side panels on your work surface with the holes and pockets facing up. Glue in the stringer assemblies and all the dowels. (fig. 5b)

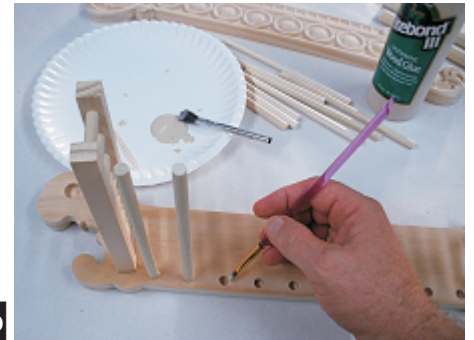


fig. 5b

Take the other panel and apply glue inside the holes and the pockets where the stringers will contact (I used no-drip molding glue from TiteBond). (fig. 5c)



fig. 5c

Turn the panel upside-down onto the upright stringers and dowels. Tilt from one side, aligning the holes as you press the panel into place. This is the 'tricky' part, but everything will go together just fine. (fig. 5d)



fig. 5d

(cont.)



# The Bread Crib

(cont.)

## STEP 5 - Assembly/Glue-Up (cont.)

Clamp the entire assembly while the glue dries.  
(fig. 5e)

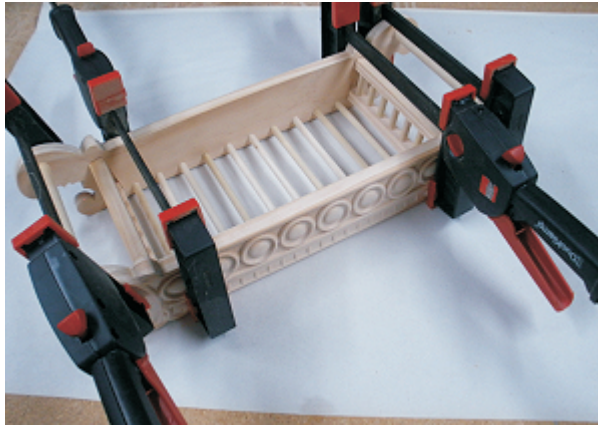


fig. 5e

## STEP 6 - Apply Finish

Apply your choice of stains, paints and clearcoats.

Here's what I used on my Bread Crib made from Select Pine boards and Poplar dowels:

- Two coats of thinned Zinnser Bulls Eye Seal Coat (50% denatured alcohol and 50% Seal Coat), sanding after each coat
- Two coats full-strength Zinnser Bulls Eye Seal Coat
- Several coats of Krylon Crystal Clear Acrylic gloss



## IN CONCLUSION

I hope you have enjoyed this CarveWright project and that it will grace your dining table for many years!

Happy Carving!

*Michael*



# Materials Source Page

- **3M Radial Bristle Discs** from [www.mcmaster.com](http://www.mcmaster.com)  
(stack 3 discs at a time on your rotary tool mandrel)

**80-grit: part # 4494A19**

**220-grit: part # 4494A18**



Krylon Clear Gloss Acrylic  
from WalMart™

## Miscellaneous Items Purchased at Lowes™

- Zinnser Bulls Eye Seal Coat
- Denatured Alcohol
- Paint Rags and disposable brushes
- Wooden Dowels

# Additional Resources

## RESOURCES...

There are numerous resources for the CarveWright/CompuCarve owner to make their experience with these machines much more enjoyable.

Every owner should join the CarveWright User Forum (<http://forum.carviewright.com/forum.php>) where fellow users share their experiences and knowledge with these machines on a daily basis. It is a FREE service that you will surely appreciate. A handy Search Feature helps you find answers to any questions you may have.



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