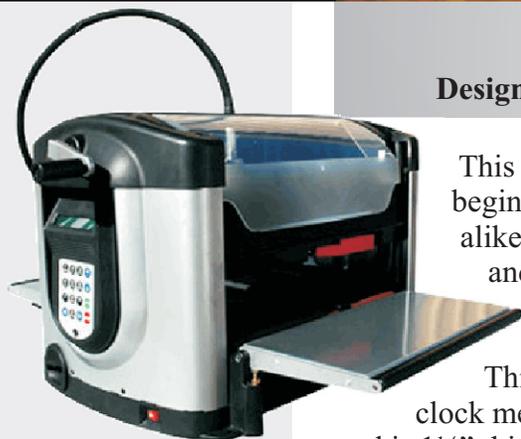


January 2009

Wilderness Eagle Clock

Designed for CarveWright™ by Michael Tyler - www.carvebuddy.com



This is an easy project for beginners and advanced hobbyists alike. It requires no special bits and uses just the two bits that came with your machine.

This beautifully detailed wall clock measures 15½" tall, 10" wide and is 1½" thick. It features a classic Wilderness Eagle theme with nicely carved acorn and oak leaf accents. The finished clock will make a handsome addition to your home, and will impress even the most discriminating observer!

Main items you will need:

1) The 2 Project Files (included):

- Eagle_Clock_FRONT.mpc
- Eagle_Clock_BACK.mpc

2) Boards with the following dimensions:

- 1 for FRONT:** .75" x 11.25" x 26"
(nominal 1 x 12 x 26" long)
- 1 for BACK:** .75" x 11.25" x 23"
(nominal 1 x 12 x 23" long)

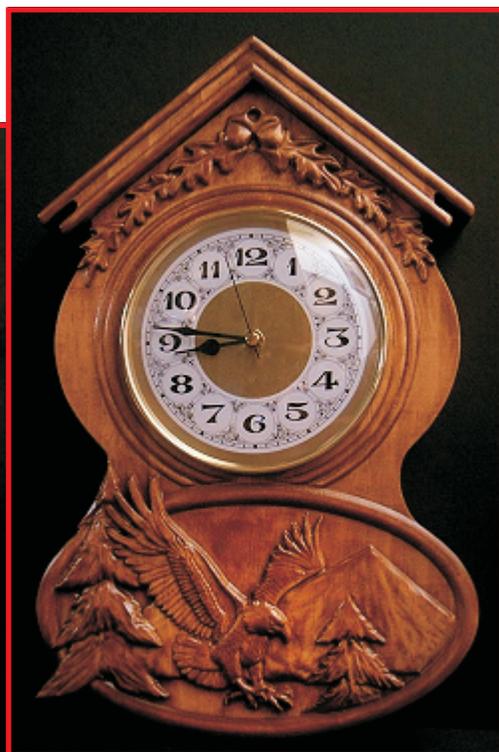
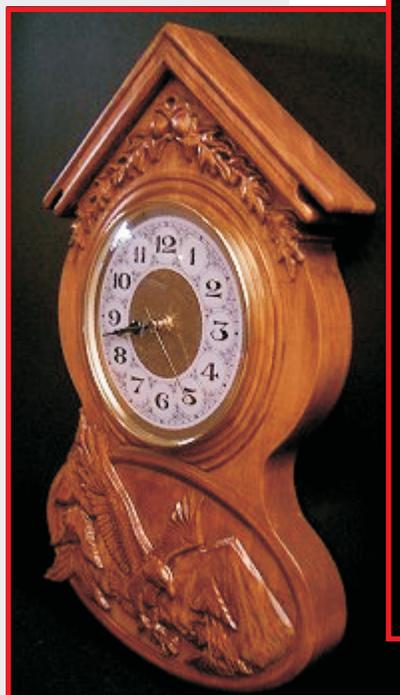
NOTE: Do not use boards that are shorter in length than specified above.

3) Clock insert with 5 7/8" face and 3 1/4" mounting diameter (we used Style #15344 from <http://www.klockit.com>)

4) Picture frame hanger hardware for the back of the clock

5) Sandpaper, wood glue, CA glue (optional), wood stain and/or paint and clear finish

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

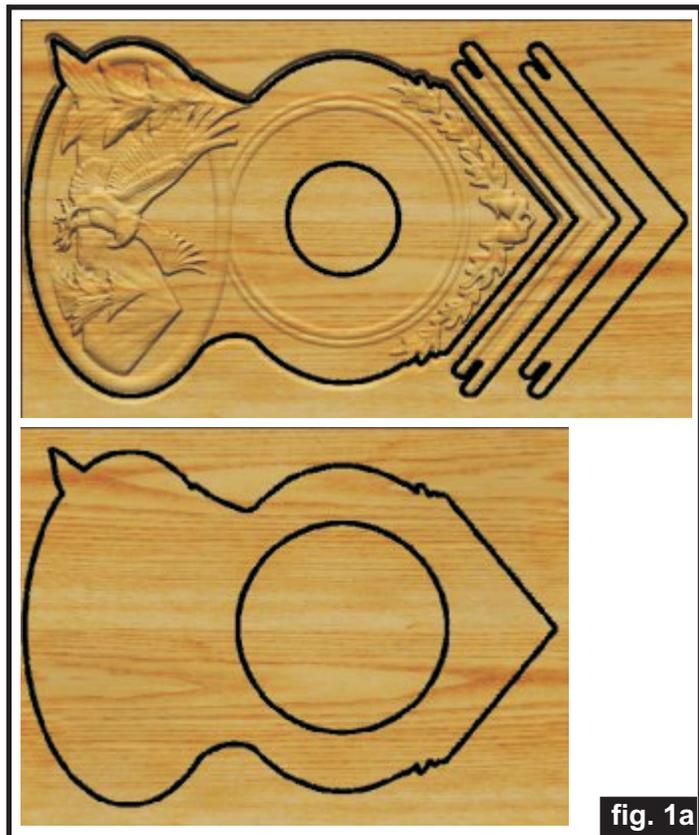


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STEP 1

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



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

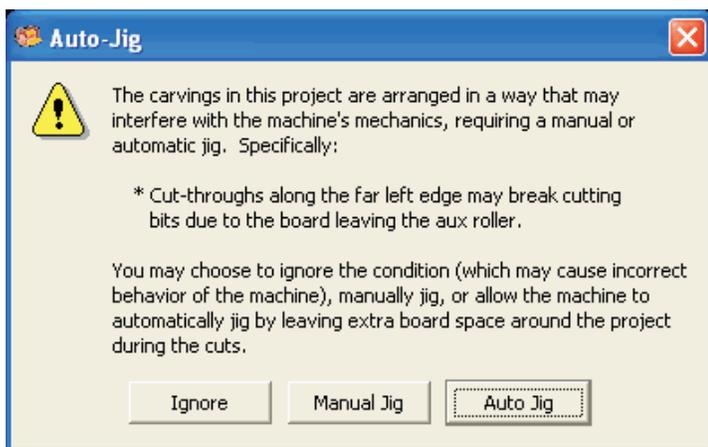


fig. 1b

If you do see the message, you may safely click on “Ignore” because our actual boards will be large enough that it won’t cause any problems at all. After the project is compiled, select “Best” for the File Quality setting. **NOTE: TOTAL** combined carve/cut time for **both mpc’s** is about 4¼ hours all together.

Click “OK” and upload each mpc project file to your memory card. Take and 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).

Turn on your machine and proceed with the standard project setup in Step 2...

STEP 2

You will see “Project Menu” on your LCD display. Press “1” then scroll to the Eagle_Clock_FRONT.mpc project, and press the green ENTER button to select it. Then follow the additional prompts....

- **Stay Under Rollers** - press 1) YES
- **How to place on Length** - press 1) Center On Length
- **Cut Board to Size?** - press 2) NO
- **Select Cutting Bit: 1/8” Cutting** - Press ENTER. The machine will move the bit holder to the center of the machine in preparation for the bit installation.
- **Load Bit:1/8” Cutting** -Insert your 1/8” cutting bit, then press the green ENTER button. The machine will go through a series of homing steps and ‘finds surface’.
- **Select Carving Bit: 1/16” Carving** - Press the green ENTER button. The machine will move the bit holder to the center of the machine in preparation for the bit installation. 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 load your 1/8” cutting bit, then press the green ENTER button. Cutouts are always performed last, after all raster carving is completed.

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STEP 2 (cont.)

• The machine will now proceed to cut out each part as it moves around the outlines of every component. It leaves little tabs to hold each part in the board. When the machine is finished, remove your board and clean your machine of excess sawdust.

• Repeat the above procedures for the Eagle_Clock_BACK.mpc. **NOTE:** The 1/16" bit will NOT be asked for on the Eagle_Clock_BACK.mpc, since it consists of only cutouts.

After the cutouts are completed, remove the board. Your boards will look like this (fig. 2)

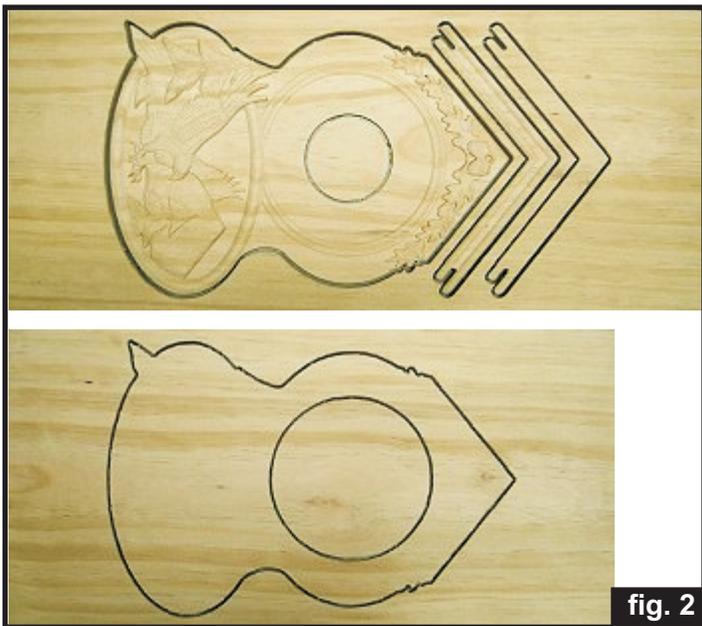


fig. 2

STEP 3

Separate all the pieces from the boards and carefully work off the tab nodes around the cutouts. (fig. 3a)



fig. 3a

Glue the Front and Back pieces together, as well as the roof pieces, and clamp until dry. (fig. 3b)

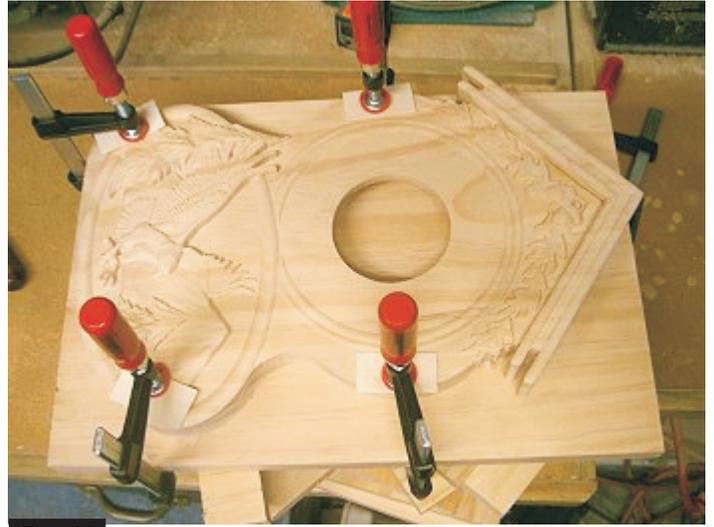


fig. 3b

STEP 4

Un-clamp the assembly and start with 100 grit and work down to 220 grit sandpaper around the edges to refine and blend the front and back glue-up assembly. (fig. 4a)



fig. 4a

(cont.)

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(cont.)

STEP 4 (cont.)

Sand all remaining surfaces and details to prepare for finishing. Use your rotary tool and assorted bits to help get into the tight spots. I suggest using 3M 220 grit sanding disks to speed up the process. (fig. 4b)



fig. 4b

STEP 5 - Finishing

After all surfaces are sanded smooth, apply your desired finish.

I used Cabot brand Pre-Stain Wood Conditioner (fig. 5a) then applied Cabot Pecan stain immediately. The stain must be applied before the pre-stain conditioner dries, so you have to work quickly.



fig. 5a



fig. 5b

After the stain was dry, I applied 3 coats of MinWax water-based Satin Polycrylic clear finish. (fig. 5b)

STEP 6

I used a couple screw eyes and wire from a picture frame hanger set (fig. 6a) for hanging the clock on the wall, but you can use another method if you wish. Just make sure the clock will lay flush to the wall when hung,



fig. 6a



fig. 6b

To install the picture wire, mark the screw eye locations and use a sharp awl to create pilot holes in the sides of the back recessed portion for the screw eyes. (fig. 6b)

Then simply install the screw eyes and cut a wire to length and twist both ends securely to the screw eyes. Leave a slight amount of slack, but not too much. (fig. 6c)



fig. 6c



IN CONCLUSION

Install your clock insert and enjoy your completed clock!

Happy Carving!

Michael

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.carverwright.com/index.php) (<http://forum.carverwright.com/index.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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picture of June's Project