

## About the Artist:

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David C. Roy

Mechanics and motion have always fascinated me. During college I studied physics, engineering and chemistry to further my understanding of how things worked. I graduated with a degree in physics from Boston University in 1974. This intuitive understanding of motion and mechanics combined with the artistic influences of my wife, Marji, led me to the creation of kinetic sculptures. In 1975 we started "Wood That Works" and I became a full time sculptor. Since then I have designed and handcrafted over 150 different limited edition and one-of-a-kind kinetic sculptures. I have exhibited in numerous juried, invitational and group events. My work is displayed in galleries and private collections around the world. I currently maintain a studio in rural northeastern Connecticut.

Wood   
that Works

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## Labyrinth • Directions

Kinetic Sculpture by David C. Roy  
©2012



## To the Owner...

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Hello,

Welcome to the world of Wood That Works. This Labyrinth is number \_\_\_\_\_ out of a possible 95 pieces. It was made by me during the month of \_\_\_\_\_ in 2012. I build, test and pack each sculpture myself, doing 6-12 pieces of an edition per month. It takes several years for me to complete an edition and some are never finished as I move on to new designs. Designing and building kinetic sculptures like Labyrinth has been my full time occupation for more than 30 years. I hope Labyrinth brings you and other viewers as much enjoyment as I've found in making it.

Labyrinth has been mounted on a wall in my shop and running for at least 2 complete windings (several hours) before I pack it. I make every effort in design, construction and packing to make sure the piece will perform problem free for years to come. I use only the finest materials. Of course, problems can still occur no matter how hard I try to prevent them. My answer to this is a warranty to the original owner against defects in materials and workmanship for five years. See the guarantee section of this booklet for details.

It leaves me happy and satisfied to find that my work has made it's way into new lives. I hope it brings you years of enjoyment.

David C. Roy



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### **Before Moving Sculpture:**

- Always tape the spring-belts and strings in place before moving the sculpture. This will save a lot of aggravation when it is time to set the piece up again.
- See the diagram for the best tape locations. They are shown as gray rectangles.
- Remove the large patterning wheels before taking the sculpture off the wall in a reverse procedure to the installation.
- Never lay the sculpture on a horizontal surface for a long period of time without supporting the patterning wheels. I use crumpled newspaper to support and separate the wheels when packing the sculpture.

### **Guarantee:**

- My kinetic sculptures are guaranteed to the original owner for a period of five years. All warranties expire with transfer of ownership from the original owner. Damage of the sculpture from exposure to extremes of high or low humidity, or to adverse hot or cold temperatures, or damage caused by normal wear and tear, accidents, misuse, or modification will not be covered by the warranty. Shipping and insurance to and from Wood That Works is the responsibility of the purchaser.
- I will charge a reasonable repair fee if the sculpture was damaged by misuse or needs refurbishment from normal wear and tear.

## About Labyrinth:

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Labyrinth is an easy-to-live with kinetic sculpture that meanders along unfolding a variety of hidden patterns while making soft, wooden clicking sounds.

This sculpture had a difficult birth. I designed the patterning wheels in 2007 but it took five years before I perfected a mechanism that moves them appropriately. One of the fine points I strive to achieve is the optimal pacing of the wheels as they move in either opposing or matching directions. The power mechanism has to be designed and tuned to deliver that exact rhythm.

To complicate matters, I love simplicity and efficiency and fuss to maximize run time while minimizing power input. I am able to power the wheels in Labyrinth with just a single spring and still get about 9 hours of runtime. The key is in the five balls providing a visual interest factor in the background. Yes, they are necessary!

## Specifications:

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Limited Edition of 95  
Size: 41”h x 30”w x 5”d  
Power Source: negator spring  
Approximate Run Time: 9 hours  
Materials: hardwood plywood,  
brass, bearings, string  
Labyrinth © 2012

## Directions:

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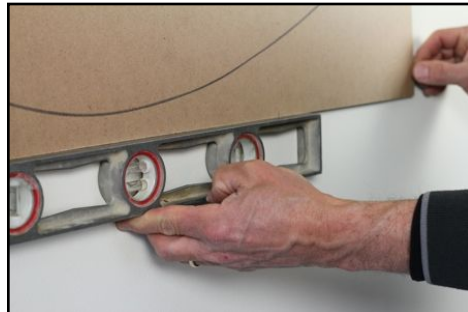
### To Mount on Wall:

- DO NOT remove the tape holding the spring-belts and strings in place.
- Hold the mounting template in the desired location against a wall. The diagram on the next page shows the relationship of the template to the sculpture to guide you in positioning the sculpture on the wall. Minimum clearance distances are noted

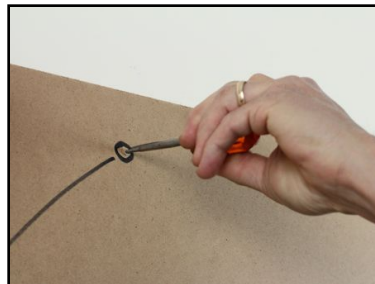


- Attach the template to the wall with 1 screw in the upper right corner screw hole.

- Level the bottom edge of the template. Important! Use a level. Insert a second screw to mark the location.



- Place a sharp instrument through all the screw holes, marking their positions on the wall. Remove and save the template.



Winding Wheel

## Directions:

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### To Wind:

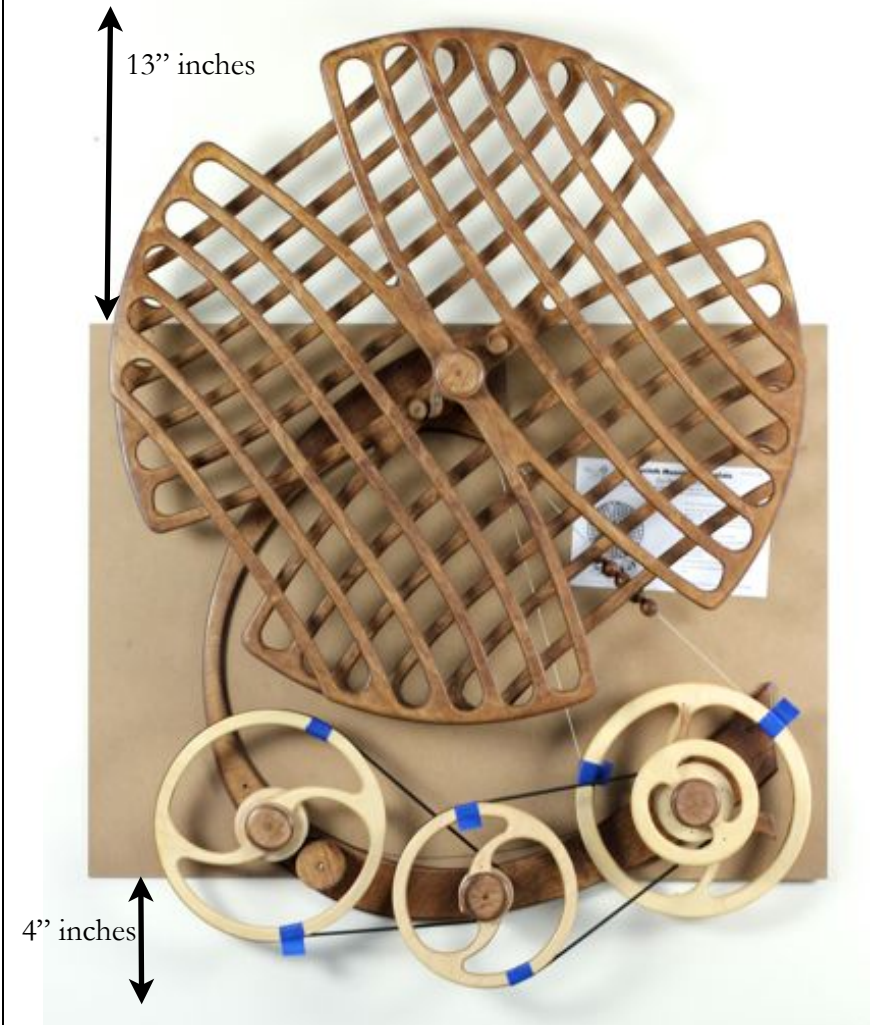
- Turn the winding wheel clockwise 23 turns.
- Pay close attention to the top of the light colored wood spool directly behind the winding wheel. Stop winding as soon as you see the red tape appear on the metal band. This is placed about 1 turn from the end. *Winding beyond this point may damage the sculpture.*

### To Start:

- If the sculpture does not start by itself after winding, **gently** push both patterning wheels in a clockwise direction.

### To Stop:

- Slow the motion of the patterning wheels with your hand and let them come to rest.

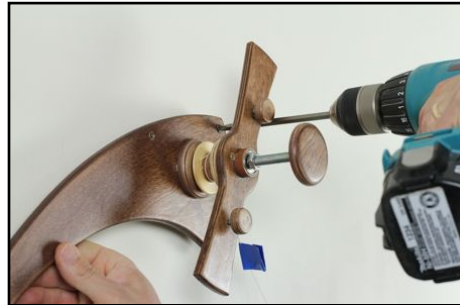


## Installation Directions (con't):

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- Drill pilot holes in the wall using a 1/8" bit. If the wall is sheet rock or plaster use plastic anchors.

- Screw the sculpture to the wall using all 4 screws.



- Remove blue tape.

- Remove the 1 large and two small knobs from the top hub as shown in this photo.



- Slide the large patterning wheel with the 1 inch hole onto the hub. Note that it only fits on in one orientation. Match the markings.
- Screw the small knobs in place.

## Installation Directions (con't):

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- Slide the second patterning wheel in place. There are two bearings in the hub of this wheel so make sure you align it with the center of each. It slides on easily. Don't force it.
- There is a small pivoting lever on the back of this wheel. This may prevent you from sliding the wheel to its final resting place. Rotating the wheel slowly clockwise will push this lever out of the way. When completely in place there is a small gap between the hubs of the front and back wheels.
- Screw the large knob in place finger tight. There needs to be at least 1/16 inch of free play motion front to back with the knob in place. If you don't feel the free play, the knob is too tight. Back it off a bit.