

## 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 100 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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## Variation II Sun • Directions

Kinetic Sculpture by David C. Roy  
©2014



## To the Owner...

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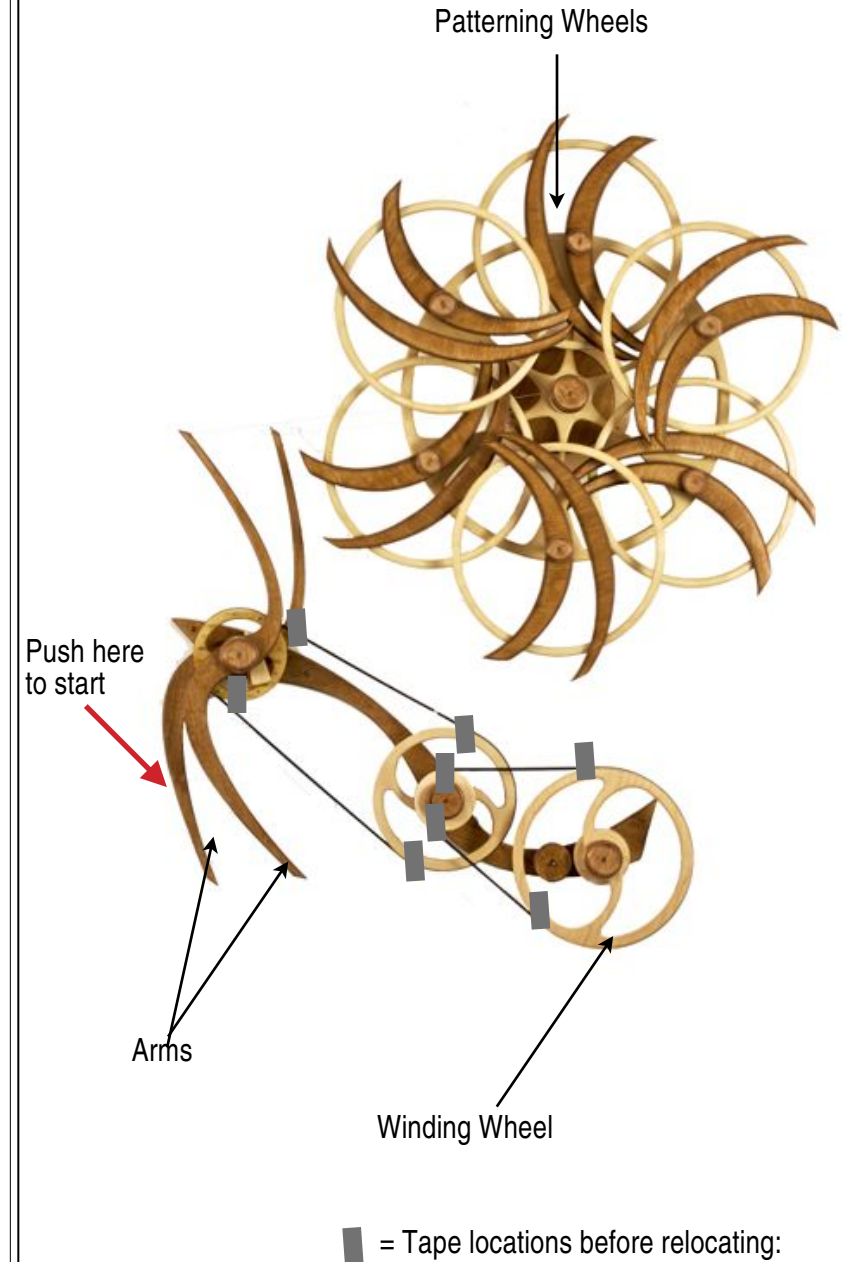
Hello,

Welcome to the world of Wood That Works. This Variation II Sun is number \_\_\_\_\_ out of a possible 24 pieces. It was made by me during the month of \_\_\_\_\_ in 2014. 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 Variation II Sun has been my full time occupation for more than 35 years. I hope Variation II Sun brings you and other viewers as much enjoyment as I've found in making it.

Variation II Sun has been mounted on a wall in my shop and running for at least 2 complete windings (many 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 additional 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



## Directions:

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### To Wind:

- Turn the winding wheel clockwise 22 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 on the bottom of the arm that is in the leftmost position. On the image to the right the correct “push” point is noted with an arrow.

### 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 Variation II Sun:

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The Variation series is the result of my continued exploration in the world of kinetic patterns created by 6 overlapping wheels orbiting a common center. Each orbiting form is designed to hold a particular orientation by rotating in the opposite direction from its orbital motion. I first “discovered” this kaleidoscopic effect in my sculpture called Rhapsody, took it a step further with Quark Cotillion and got serious about exploring this effect with the first Variation series. Variation II is a complete redesign of the drive mechanism and mechanics of this type of sculpture but it retains the original pattern creation concept.

## Specifications:

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Limited Edition of 24

Size: 46”h x 44”w x 8”d

Power Source: negator spring

Approximate Run Time: 15 hours

Materials: hardwood plywood,  
bearings, string

Variation II - Sun ©2014

## Directions:

### To Mount on Wall:

- DO NOT remove the tape holding the spring-belts in place.
- Hold the lower template against the wall at the desired location. Note the clearance distances required.
- Place a screw through the left hand screw hole in the template and screw it part way into the wall. This is to mark the location and to create a pivot point for leveling the template.
- Use a level to level the bottom edge of the template. Partially screw in the right hand screw at this point to temporarily hold the template to the wall. Mark the center screw hole position.
- Hold the upper template on top edge of the bottom template. Line up the cross marks. Mark the screw hole positions.
- Remove the templates from the wall.
- Install wall anchors at marked holes if necessary.
- Attach the round upper base to the wall using 3 screws.
- Attach the lower part of the sculpture to the wall using 3 screws.
- Carefully slide the large patterning assembly wheel onto the long shaft on the round upper base. There are 2 bearings in the hub, one at the back and one at the front. (See hub diagram). As you slide the assembly on it will move easily if the assembly is held so that the bearings are in line.
- Screw the front center knob on the shaft until you meet resistance and stop. Please note it does NOT go tight against the bearing assembly. There MUST be at least 1/16" of play front to back to allow for expansion.
- Remove the tape holding the strings to the upper mechanism. Attach the rear (closest to the wall) string to the rear arm. There are two hooks on the inside of the rear arm. The end loop on the string goes over the inner hook to secure the string. The string then passes under the hook at the tip of the arm. (See string attachment diagram.)
- Attach the front string to the front arm in the same manner.
- NOTE: The number of times the string is wrapped around the spool is very important. When one string is totally unwound, (that is when it is pulled straight out from the spool) the other string must be wrapped around the spool 3 times. It ships this way.
- Remove the tape holding the spring-belts in place.

