

About the Artist:

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

Complexity 3 • Directions

Kinetic Sculpture by David C. Roy
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To the Owner...

Hello,

Welcome to the world of Wood That Works. This Complexity 3 is a one-of-a kind sculpture made by me in 2020. I build, test and pack each sculpture myself, making about 6 pieces of an edition sculpture per month. Designing and building kinetic sculptures like Complexity 3 has been my full time occupation since 1975. I hope Complexity 3 brings you and other viewers as much enjoyment as I've found in making it.

Complexity 3 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 three years. See the guarantee section of this booklet for details.

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

David C. Roy

Subsequent windings:

- Turn the winding wheel in a clockwise direction 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 2 turn from the end. *Winding beyond this point may damage the sculpture.*
- The ratchet pawl at the top of the mechanism keeps the spring from unwinding rapidly. NEVER touch the ratchet pawl after the sculpture is wound. the spring will release and damage will probably result.

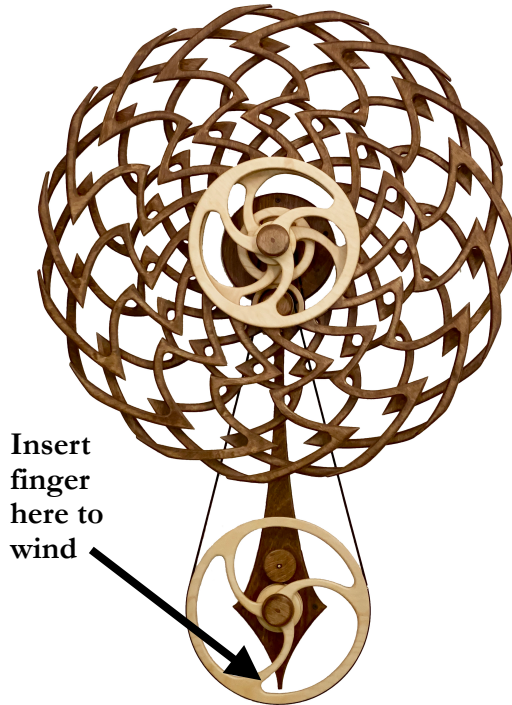
Before Moving Sculpture:

- Make sure the power spring is unwound.
- Always tape the spring belts in place before moving the sculpture. This will save a lot of aggravation when it is time to set the piece up again. Blue Painter's tape works well.
- It is safest to pack if you remove the patterning wheels. Reverse the steps for installation. Be sure to save the spacer. Tape it back on the shaft before screw the knob on.
- Make sure you keep the wheels flat during storage or transportation. They can warp if not supported.

Guarantee:

- My kinetic sculptures are guaranteed to the original owner for a period of three 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.

Directions:



Insert
finger
here to
wind

Important First Time winding instructions:

- The first time you wind up this sculpture after setting up requires special attention. Shipping may have caused parts to move unexpectedly.
- First look for obvious things that might have come out of alignment in shipping. (Belts out of pulleys, spring band out of spool, etc.)
- Only turn the winding wheel TWO

turns for the first run.

- Turn the winding wheel in a clockwise direction.
- Make sure the metal band is winding inside the larger spool walls. If it isn't, shift it so that it does. It should be fine for all future windings. A short run will show you if parts slid out of alignment during shipping.

To Start

- If the sculpture doesn't start moving on its own when you finish winding, gently push both patterning wheels in a clockwise direction.
- If it doesn't run as expected email David at david@woodthatworks.com.

About Complexity 3:

My edition sculpture Boomerang was the result of a systematic study using patterns created by the swept-back spoke design. I've been experimenting with this type of pattern for years but never systematically. In my retirement I decided to take the time to do a more detailed study. In this phase of the study I varied the number of bends in the spoke; Complexity 1 has one bend followed by Complexity 2 with two bends and 3 bends in Complexity 3. My normal working method of studying computer animations was not definitive so I decided to make all three and compare them side by side. The time to do this is another luxury of retirement. Each sculpture had its own qualities and I liked them all. In the end we chose Complexity 1 to become Boomerang. But..... Complexity 2 and 3 are both fascinating sculptures so I've decided to sell them as one-of-a-kind sculptures. In the past I would have hung on to them for future editions but there are too many new ideas to try and not enough time to do it all.

Specifications:

Size: 47"h x 32"w x 6"d

Power Source: negator spring

Approximate Run Time: approx. 20 hours

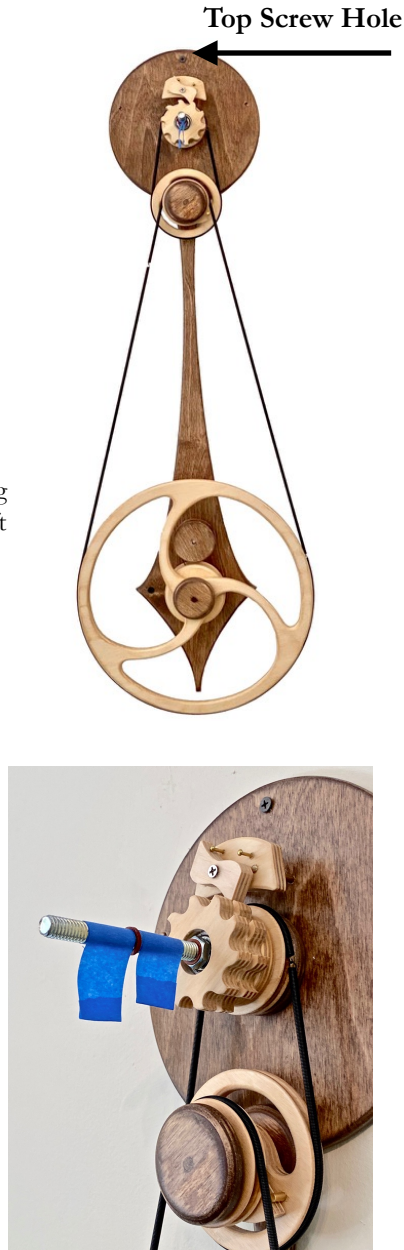
Materials: hardwood plywood, bearings,

Complexity 3 © 2020

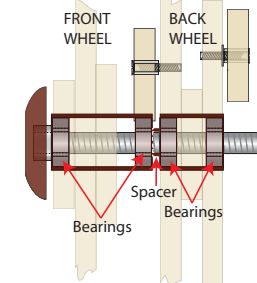
Directions:

To Mount on Wall:

- Do not remove the blue tape until instructed to do so.
- Complexity 3 does not need a template to set up.
- Hold the base up against the wall. Position the top center hole. This needs to have 17" clearance to the left and right, 14" above and 35" below this top hole.
- Hold the sculpture in the desired location and screw the top center screw in place temporarily securing the sculpture base to the wall. Shift the dark base so that the screw is top center and base and winding wheel are vertical. Screw all the screws in marking their exact location on the wall.
- Now take the sculpture base down by removing the screws. Gently hammer the provided plastic anchors into the screw holes making sure the collars are flush with the wall. Screw the sculpture base back into position again starting with the top center screw.
- Remove the knob on the top shaft. Remove all the blue tape here and slide the first brown spacer that is taped in place off the shaft. Place in a safe place. It is essential. There may be another spacer against the nut in front of the cog. Do not remove this one.



- Handle the patterning wheels with care. The spokes are fragile.
- Slide the back patterning wheel onto the shaft as shown. It has 2 bearings that need to be lined up. It should slide onto the shaft easily. See diagrams



- Slide the brown spacer **Spacer** back onto the shaft and up against the bearing at the back wheel center.
- Slide the front patterning wheel onto the shaft. As you see the shaft start to appear in the front bearing start rotating the wheel clockwise. This will push the small lever on the back wheel out of the way and properly seat the wheel.
- Screw the knob back in place. Tighten just enough to secure it in place. Do not over tighten. The front patterning wheel should be free to move back and forth on the shaft about 1/16 inch.
- Remove the blue tape securing the belts.

