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 hand-crafted over 80 different limited edition and one-of-a-kind kinetic sculptures. I have exhibited in numerous , 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

Serenade • Directions

Kinetic Sculpture by David C. Roy

To the Owner...

Hello,

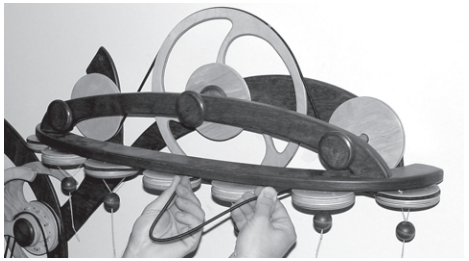
Welcome to the world of Wood That Works. This Serenade is number _____ out of a possible 36 pieces. It was made by me during the month of _____ in 2000. I build, test and pack each sculpture myself, doing 6-12 pieces of an edition per month. It takes several years for me to complete an edition and some are never finished as I move on to new designs. Designing and building kinetic sculptures like Serenade has been my full time occupation for more than 25 years. I hope Serenade brings you and other viewers as much enjoyment as I've found in making it.

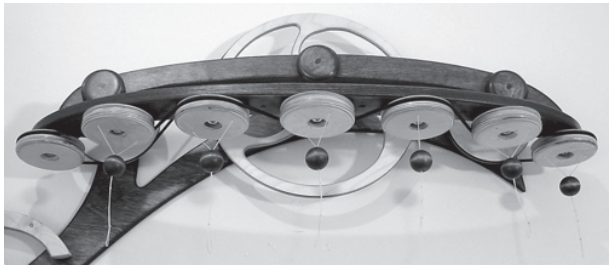
It leaves me happy and satisfied to find that my work has made it's way into new lives. I hope it brings you years of enjoyment.

David C. Roy

Reinstalling the Chime Belt (con't):

•While maintaining tension on the belt place it around these pulleys from back to front. Maintaining tension on the belt as you thread it from back to front snaking it between the chime pulleys. I do this with both hands simultaneously but it is easier to have one person hold the belt fixed over one pulley while the other person threads the belt. Use the photo below as a reference.





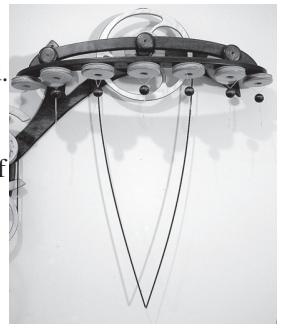
The belt path as viewed from below before the chimes are added.

- Reinstall the connecting belt and the chime tubes as per the original installation directions.

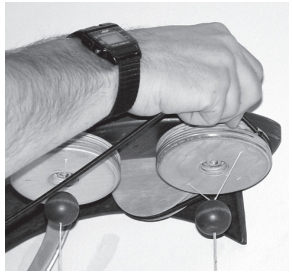
Reinstalling the Chime Belt:

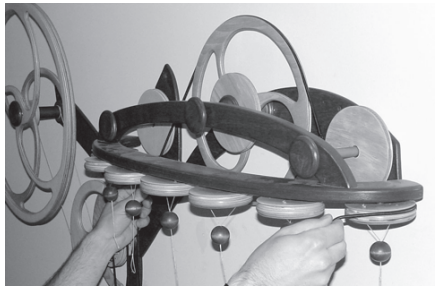
Serenade is shipped with all belts installed but accidents happen and they can become dislodged during shipping, installation or just from curious fingers later on. This is not normally a problem for simple belts but the right- hand side chime belt follows a rather complex path so I thought I've give directions on how to reinstall it. After a lot of practice I can install the belt by myself but it is easier with an extra set of hands.

- Unlink and remove the connecting belt.
- Push the volume adjusting balls all the way up to the quiet position.
- Detach and remove the chime tubes. Lay them out flat so the strings don't get tangled.
- Place the chime belt over the large vertical pulley in the center rear of the chime side of the sculpture.
- Bring each side of the belt down and under the left and right vertical pulleys and then out and around the outside horizontal pulleys.



Belt Starting Position





Two views of wrapping around the outside pulley.

About Serenade:

Serenade is a long running sculpture which produces a soft, random musical texture as well as some interesting visual patterns. Incorporated are precision tuned “Chimes of Java” created by Woodstock Percussion™.

I’ve been toying with the idea for another “musical” sculpture since I made Chime Carillon in 1988. I was looking for a way to lay the tubes out on the wall in pipe organ fashion rather than using the traditional circular wind chime format. The problem was one of complexity, controlling all 6 strikers led to a mechanism that was just too complex to be practical for a wall sculpture. The solution came to me while looking at a pair of earrings. I’d rotate each chime tube and striker as a pair and let their relative motion generate the sound. This had the advantage of allowing me to control each tube and striker with a relatively simple mechanism while still allowing for random motion and sound. A further benefit of this system is a way to control the overall volume of the sculpture. Simply sliding the tensioning balls above each tube allows you to regulate action and volume of that particular tube assembly. The rest of the design emerged after a series of experiments and a good measure of serendipity.

Specifications:

Limited Edition of 36
Size: 50"h x 50"w x 9"d
Power Source: negator spring
Approximate Run Time: 4.5 hours
Materials: hardwood plywood,
bearings, string

Directions:

NOTE: Do not remove any of the tape holding strings or belts in place until the sculpture is fully installed.

To mount on wall:

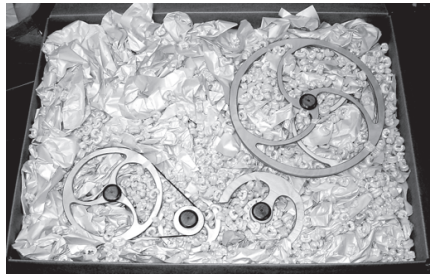
- Hold the left-hand template against the wall in the desired location.
- Level the bottom edge.
- Temporarily attach the template to the wall using the marked screw holes in the template. Partially screw in the screws.
- Hold the right-hand side template against the left one lining up the bottom edges. Mark the screw holes.
- Remove the left-hand side template from the wall.
- Install wall anchors if necessary.
- Screw the left and right-hand sides of the sculpture to the wall using the marked holes. Be careful not to dislodge the black belts from the pulleys.

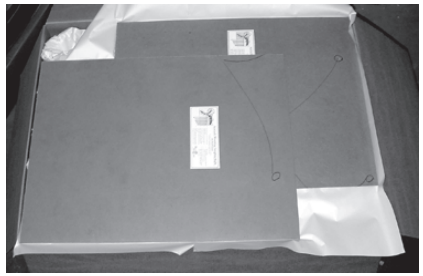
Repacking Instructions:

Follow these instructions whenever you must move the sculpture. It will then be in the correct orientation for reassembly according to this booklet.

Packing directions:

- Before removing sculpture from the wall, carefully tape the strings in place as shown in diagram on page 4. Unhook and repack chimes in chime box. Disconnect the connecting belt.
- Put one inch layer of Styrofoam peanuts on bottom of large box and cover with a layer of paper or cardboard.
- Lay the right side mechanism in the box as shown. Lay the chime tube box next to the mechanism. Secure both items with crumpled packing paper as shown.
- Cover these items with several inches of packing peanuts filling all voids. Lay several sheets of packing paper over the peanuts.
- Position the left side mechanism as shown and secure with crumpled packing paper. Fill voids with packing peanuts.
- Fill the remaining space with packing peanuts until 1 inch below the top of the box.
- Lay in the packing templates as shown. Include directions, screws, and connecting belt on this layer.
- Add several crumpled pieces of packing paper to secure a tight pack, close and seal the box.

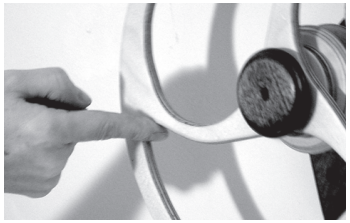




Directions (con't):

Winding the Sculpture

- Insert your index finger at the juncture of the spoke and the rim of the winding wheel and turn the winding wheel 24 turns clockwise.



Starting the Sculpture

- Serenade will usually start by itself after winding. If it doesn't just give the large pendulum wheel a gentle push to get it going.

Stopping the Sculpture

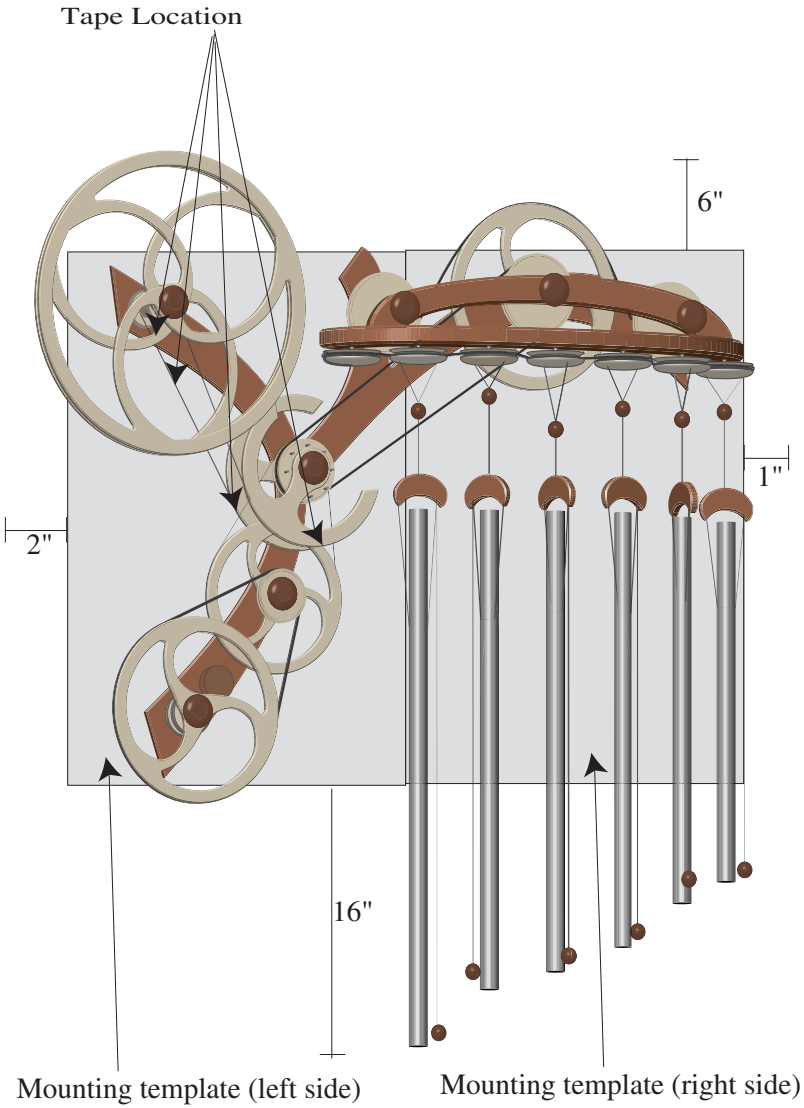
- Serenade can be stopped mid-winding by gently slowing the motion of the pendulum wheel until it reaches a stall point. It can take a few tries to find the correct point.

Adjusting the Volume

- The relative volume of the Serenade can be adjusted by sliding the dark wooden ball at the top of each chime tube up or down. The knots in the string provide enough friction hold the wood ball in place. The action and volume is minimum when the ball is closer to the chime pulley and louder when closer to the chime tube. It can take several minutes for the ringing to settle down to the new level after an adjustment is made. The volume of each tube can be adjusted individually creating some interesting and pleasing combinations.

Louder

Softer



Directions (con't):

Installing the connecting belt.

- Place the connecting belt over the front slot in the pin wheel on the drive side of the sculpture and over the smaller center pulley of the chime side. Hook the 2 ends of the belt together.

Hanging the Chime tubes.

- Hang each of the chime tubes from the string loop using the small silver hook in the top of the wood crescent. The longest tube goes on the left side and the shortest on the right.

- Check that the crescent top is visually level. See photo below. Adjust if necessary by carefully sliding the string.

Finish Installation:

- Remove the masking tape that secured the belts and strings for shipping.

Correct

Incorrect