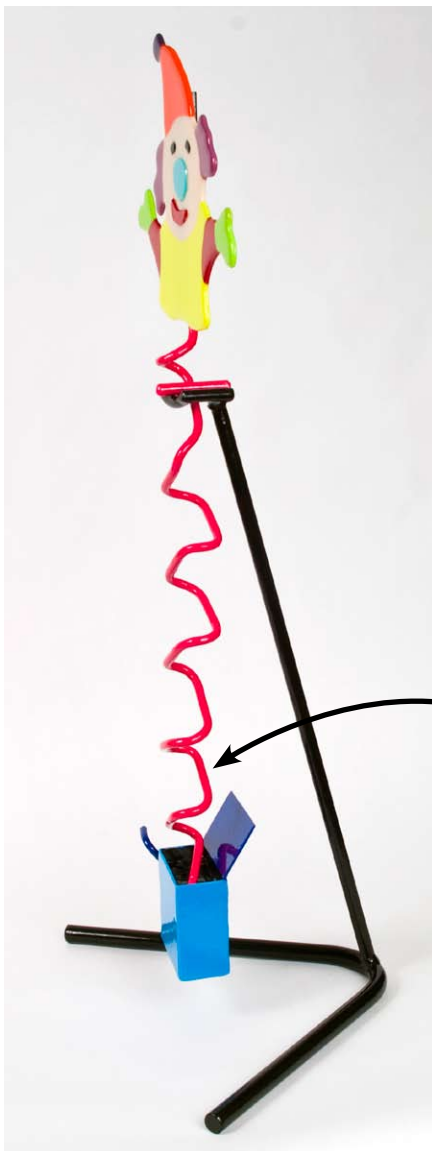




The Jack in the Box Clip Art was the inspiration for the Kinetic Sculpture. For the figure I used fused glass, but you can substitute a painted steel plate.

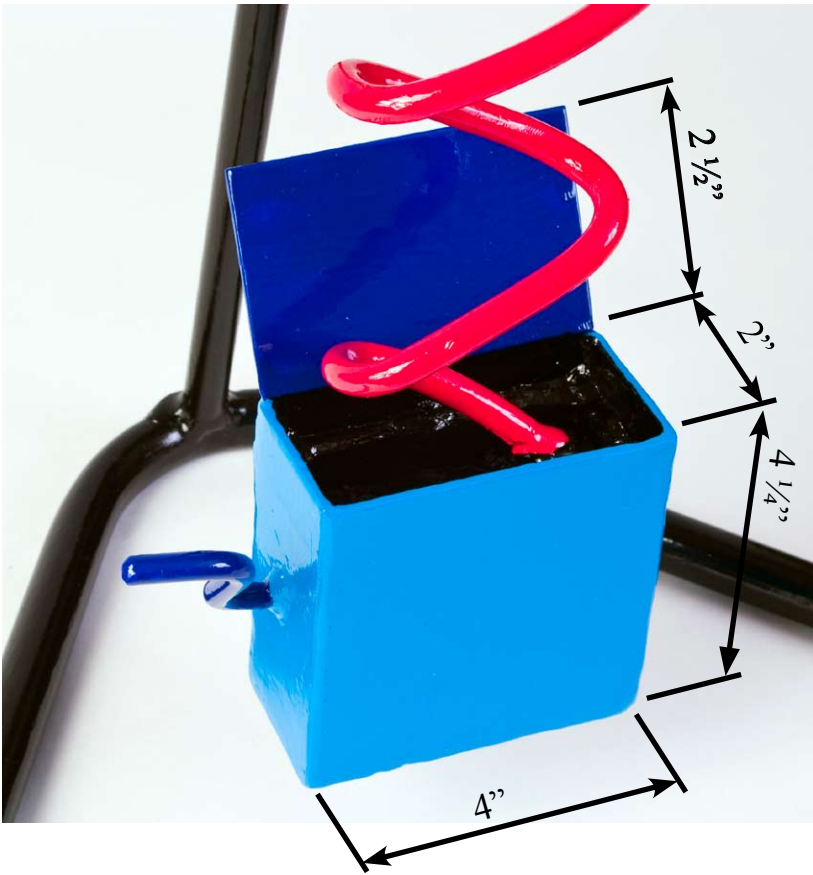


To prevent any conflicts with the support stand, the kinetic sculpture is made with a slender profile.



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The box is made rectangular to reduce its profile width. The top plate is recessed below the top and painted black to hide its appearance. All of the plates are $\frac{1}{8}$ " steel bar stock.

The spring is $\frac{3}{8}$ " diameter steel rod which was bent in a ellipse shape to reduce its profile.

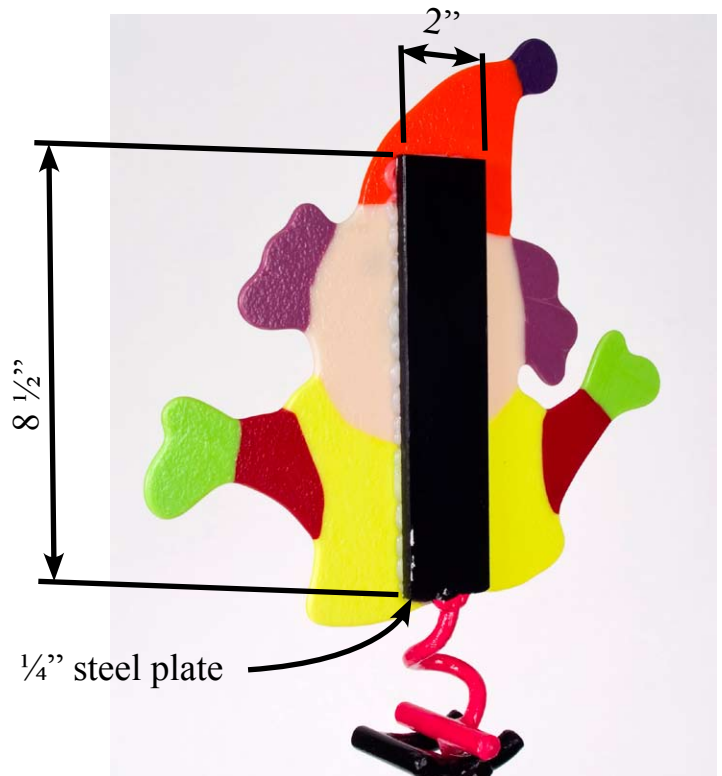


To maximize the movement, the spring is welded to the outside of the horizontal support.

An oxygen acetylene torch was used to bend the spring to prevent it from hitting the stand.

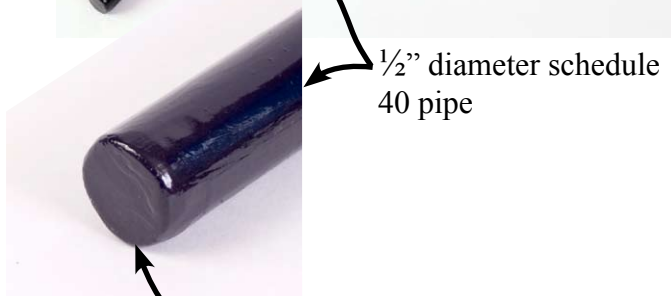
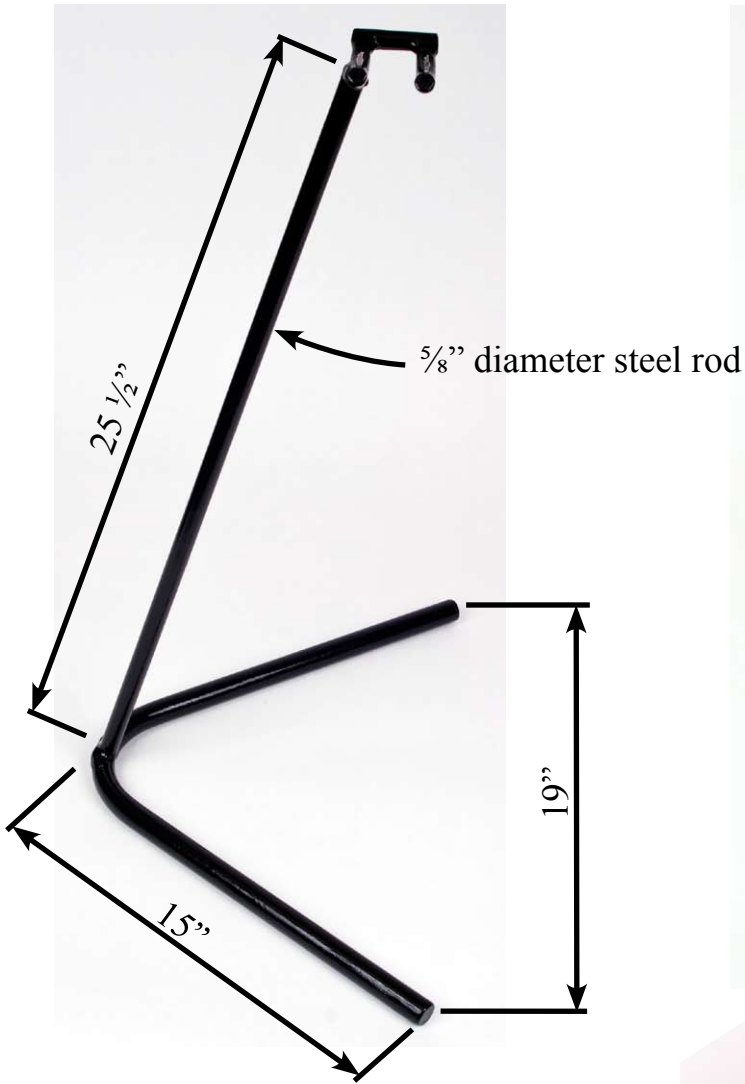


For attaching the fused glass to steel plate, I have found silicone to work the best. With the glass and the steel having different coefficients of thermal expansion, the silicone allows the two different mediums to expand and contract without breaking the silicone joint. To allow for the movement, it is best to leave a small gap between the glass and the steel plate for the silicone.

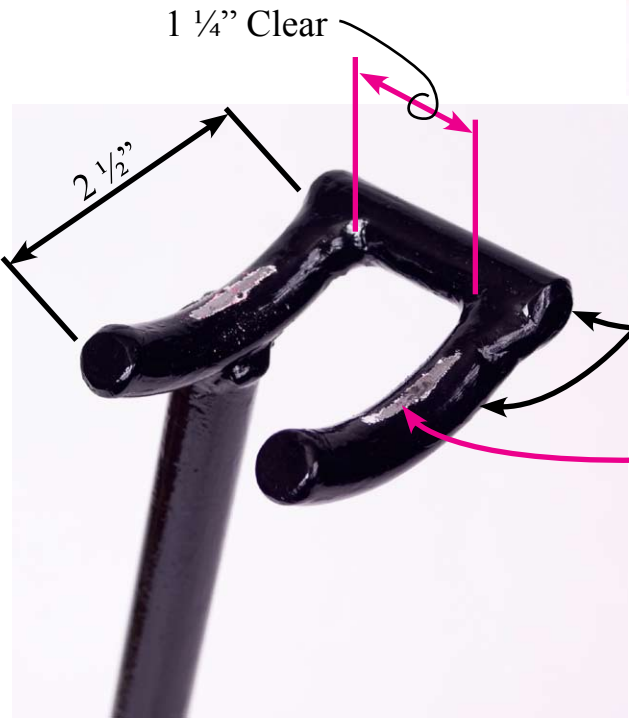


Silicone was used to attached the fused glass to the steel plate.





A steel plate was welded to the end of the 1/2" diameter pipe and ground smoothed.



A file was used to roughen the surfaces between the support stand and the spring's horizontal steel rod. This was to prevent the spring's horizontal steel rod from sliding as the kinetic sculpture swings back and forth.