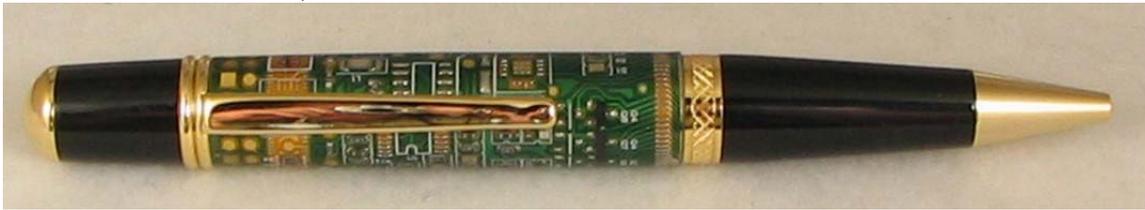


Berea Hardwoods Co., Inc.  
Kit Instructions

## **Berea Hardwoods Computer Circuit Board Pen (0502X/B-PCB-CHIP-xx-1)**



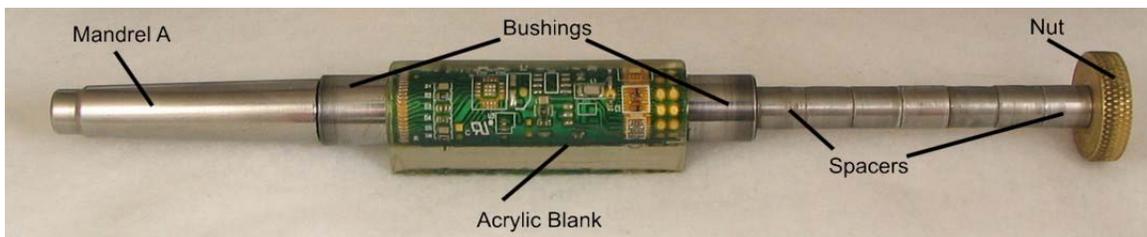
Needed: Mandrel A  
Bushings 50A  
Drill 27/64"  
Wood Size-Blank Provided

### **Preparing the Material Blanks**

1. The material blank for this pen is provided. It is made from acrylic resin cast over the circuit board.
2. Care should be taken in turning this blank.
3. It should be turned using a very sharp tool.
4. Also, extremely light cuts should be taken to avoid chipping the blank.
5. If you are experienced using a skew then it will give the best cutting action as well as final finish.
6. Be sure to face the blank just as you would a normal wooden blank.

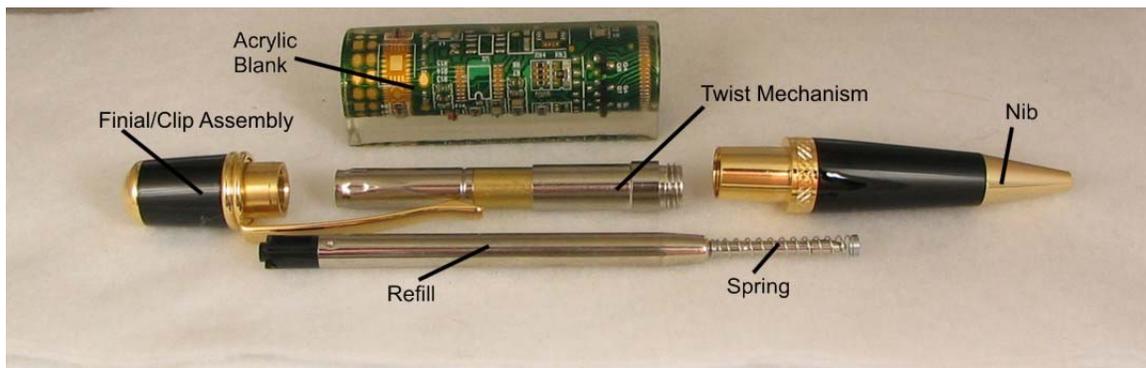
Note: If some chipping occurs the blank can be coated with thin CA glue and sanded back down smooth.

### **Turning the Material Blanks**



1. Assemble the provided blank on the mandrel using the 50A bushings. Select the larger bushing for the finial/clip end of the pen and the smaller one for the nib end.
2. Since there is only 1 blank to place on the mandrel, you will have to place spacers on the mandrel in order to tighten the tube for turning. You can drill a 7mm hole in a piece of wood for a spacer or 7mm bushings make excellent spacers.
3. Tighten the tailstock before tightening the blanks on the mandrel. This will center the mandrel first. Then tighten the nut that holds the blanks.
4. Turn the blank to the desired contour making sure that the area next to the bushing is turned to the size of the adjacent bushing.
5. After turning the blank, sand the surface in progressive steps until you get to 400 or 500 grit.
6. If a higher polish finish is desired continue sanding with Micro Mesh through 12000 grit.
7. Apply the finish of your choice and polish.
8. Remove the blank from the mandrel.

### Assemble the Pen



1. Press the finial/clip assembly into one end of your finished blank.
2. Insert the refill into the nib assembly making sure that the spring is in place.
3. Screw the twist mechanism over the refill and into the nib assembly.
4. Slide the blank/finial/clip assembly over the twist mechanism.
5. Your pen is finished.

It should be noted that this is a single twist pen.

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