



Cigar Pens

Product #124713, 124714

General Instructions

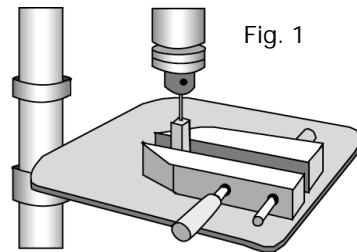
Whether you're a novice turner or a pro, you'll find these projects are all quick and easy to make. Using cut-offs and shorts, the type everyone saves but doesn't know what to do with, you'll find yourself making handsome, custom woodturning projects which are great for gifts or for sale. The following is general in nature, please refer to the instruction sheet on the opposite side for specific dimensions and sizes for your project.

1. Cutting Blanks

Cut wooden blanks to the size specified in the enclosed instructions. For your safety, be sure that the blanks are solid and have no holes, checks or other defects.

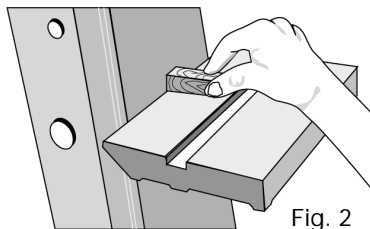
2. Drilling Blanks

Center and bore a hole through your stock as specified in the Project Instructions on the opposite side. The center of the blank can be located at the intersection of diagonal lines, drawn from opposite corners. All holes are easily drilled using a clamp and a drill press (FIG. 1). Before you start to drill be sure that your blank is at 90° to the drill press table. You may also chuck and drill the stock on your lathe.



3. Gluing Blanks to Tubes

Rough the brass tube's surface with a fine grit sandpaper and use a quick drying CA type glue to secure the brass tubes into the blanks. Rotate the tube as you insert it to ensure maximum surface coverage of glue. If you find that CA glue is not providing adequate bonding, an alternative is any two part epoxy type glue.



4. Sanding Blanks to Length

Using a belt or disc sander, square the ends of the brass tube/wood blank. The blank should be flush with the brass tube on both ends. Care should be taken to not sand into the tubes (FIG. 2). If any excess glue remains inside the tubes it should be gently scraped out.

Tip: Excess glue can be scraped out using the threaded end of the mandrel when mounting the blanks for turning.

5. Mandrel Preparation

Woodcraft's new Pen and Pencil Makers Mandrel system allows you to turn a variety of small projects without requiring the purchase of a unique, special mandrel each time. The only item you will need to purchase to turn new projects is the specially designed bushing set for the project of your choice. The mandrel is provided with either a #1 Morse Taper or a #2 Morse Taper. If you prefer to use the mandrel in a three jaw chuck, simply loosen the Morse Taper set screw and slide the Morse Taper off of the shaft. Now the mandrel shaft may be mounted directly in your three jaw chuck. With the bushing sets specified on the project instruction sheet, mount your wood blanks and bushings as depicted for each project. With the mandrel mounted in your lathe, slide a bushings onto the mandrel, followed by a wood blank and a second bushing or spacer as required, followed by the second wood blank if required. With the wood blanks installed on the mandrel secure the wood blank/bushing assembly using the washer and retaining nut provided. Bring up a live center in the tailstock to support the threaded end of the mandrel. Do not over tighten the tailstock or the mandrel will flex and bend causing oval shaped turnings.

6. Turning Blanks

Place your tool rest parallel and as close as possible to the blank. Rotate the blank by hand to ensure it will not touch the tool rest when the lathe is turned on. Using a turning speed of approximately 1,000 RPM begin turning the blank to a diameter slightly larger than the bushings. You can work the stock down to just short of the desired design or diameter by carefully scraping or sanding.

7. Finishing the Blanks

Blanks can be finished like any other wood project. Using a fine grit sandpaper, sand the blank until it is flush with the bushing for parallel sided projects or until the desired profile is obtained for custom projects. Use a wood filler, if desired, to fill any grain openings in the blank. Final sanding with a wet/dry paper will create a blank which is glass smooth. *Tip: We have found that use of Micro Mesh sanding paper after wet/dry sanding creates a perfect, glass smooth finish.*

8. Assembly

All parts should fit together as depicted in the parts diagram for each project. In some cases a machinist vise will be needed to completely press the parts together. Protect all plated parts from scratching by covering them with a cloth or thin pad before placing them in a vise. Proceed carefully, many of the kit components are delicate and uneven or excessive pressure will cause permanent damage.



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1. Cutting Blanks

Cut 2 blanks $\frac{3}{4}$ " x $\frac{3}{4}$ ". One blank will be approximately $\frac{1}{8}$ " long (pen top) and a second will be approximately $2\frac{1}{8}$ " long (pen bottom).

2. Drilling Blanks

Using a 10mm brad point or pen makers bit, drill a hole lengthwise through the center of each blank. See General Instructions for details.

3. Gluing Blanks to Tubes

See General Instructions for details.

4. Sanding Blanks to Length

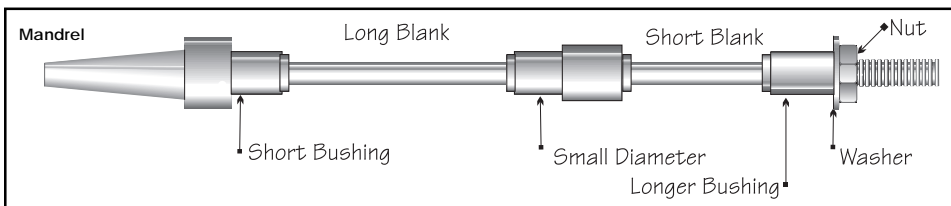
See General Instructions for details.

5. Mandrel Preparation

Mount the blanks and bushings on the lathe mandrel in the following order. Place the shortest bushing (.461" dia.) on the mandrel with the lip facing the tailstock end of the lathe. Slip the longer wood/tube blank over the bushing lip. Place the "stepped" double diameter bushing on the mandrel with the small diameter (.512" dia.) on the headstock end of the mandrel and slip the lip into the blank. Place the second blank on the mandrel followed by the longest bushing (.472" dia.). In this configuration, the blank closest to the headstock is Tube #1 (pen bottom) and the blank closest to the tailstock is Tube #2 (pen top). Secure mandrel assembly with mandrel nut and washer.

6. Turning the Blanks

See General Instructions for details.



7. Finishing the Blanks

See General Instructions for details.

8. Assembly

Bottom Assembly

1. Press gold nib (A) into one end of Tube #1, pen bottom. Press the non threaded end of Coupler (C) into the opposite end of Tube #1. To ensure a secure assembly, it may be necessary to spot glue coupler (C) into Tube #1.
2. Place spring (D) onto the refill (E) and place the spring/refill into Tube #1. Screw twist mechanism (F) onto the threaded end of coupler (C).

Top Assembly

1. Place the Clip (L) over the threaded end of Stud (M) and thread the stud into cap (K) to form Clip/Cap assembly.
2. Press Tube #3 (J), the smallest, shortest tube, onto the stud of clip/cap assembly. Press the brass tube/cap assembly into one end of Tube #2 (I).
3. Slide the gold ring (H) onto the black spacer (G). Press Spacer/Ring assembly into Tube #2, opposite the Clip/Cap assembly. To ensure a secure assembly it may be necessary to spot glue black spacer/ring assembly into Tube #2.
4. For final assembly, slide the Top assembly over the twist mechanism until the top is fully seated against the coupler.

9. Operation

To extend the pen tip, rotate the pen top in either direction until the tip is fully extended. To retract the tip, rotate the pen top in the opposite direction.

To replace pen refill, pull the pen top off of the pen bottom, unthread the twist mechanism from the coupler and remove/replace refill.

Replacement parts:

124720 repl. tube set (5 pair)

