



Click Pencils

Product #128960

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.

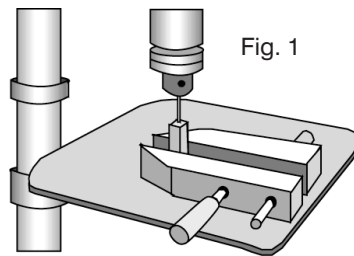
1. Cutting Blanks

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.

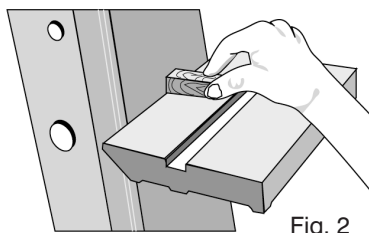


3. Gluing Blanks to Tubes

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.



5. Mandrel Preparation

Woodcraft's new Pen and Pencil Maker's 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 (141468) or a #2 Morse Taper (141469). 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 bushing 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 (11L61) 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 pen press or machinists 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 two blanks, $\frac{5}{8}$ " x $\frac{5}{8}$ " x $2\frac{1}{8}$ ".

2. Drilling Blanks

Using a letter "O" pen maker's bit, drill a hole lengthwise through the center of each blank. See General Instructions for details.

3. Gluing Blanks to Tubes

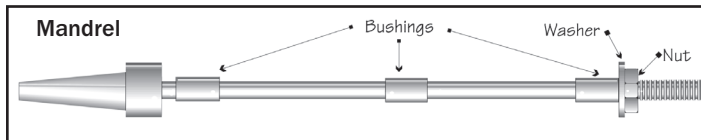
See General Instructions for details.

4. Sanding Blanks to Length

See General Instructions for details.

5. Mandrel Preparation

Mount the tube blanks and bushings on your lathe mandrel. Place the first bushing on the mandrel with the lip facing the tailstock end of the lathe. Slip the wood/tube blank over the bushing lip, followed by the bushing with lips on both ends. Slip the second wood/tube onto the mandrel followed by the third



bushing with its lip facing the headstock. Secure the assembly with the mandrel nut and washer, ensuring that the lips of the bushings slide into the wood/tubes.

6. Turning the Blanks

See General Instructions for details. The blanks may be turned to the exact diameter of the bushings for a parallel barrel pen or turned to any shape you desire by designing custom profiles.

7. Finishing the Blanks

See General Instructions for details.

8. Assembly

1. Unthread Nib (G) and slide the Bottom Bushing (B) from the Pencil Mechanism (F).
2. Press the Bottom Bushing, chamfered end first, into one end of the Barrel (A) which will be the Bottom Barrel of the pencil. Press the Center Coupler (E) into the opposite end of this Barrel.
3. Slip the Clip Retainer Bushing (D) through the Clip (C) and press this assembly into the second Barrel. This will be the top of the pencil.
4. Press the Top Barrel Assembly onto the Coupler that was previously pressed into the Bottom Barrel.
5. Slide the Pencil Mechanism (F) down through the top of the Pencil Barrel Assembly until the threads of the mechanism show through the Bottom Bushing. Screw the Nib onto the Pencil Mechanism securing it in place.

9. Instructions for Use

1. To advance the lead, press the Eraser Cover (I) until the lead is extended.
2. To refill the lead, remove the Eraser Cover, pull the eraser/nib cleaner (H) from the pencil mechanism and insert lead.
3. If the Nib should become clogged with a small piece of lead, remove the Eraser/Nib Cleaner and carefully insert the wire end into the Nib to clear it.

Replacement Components

06S28 Replacement Tubes (5 pr.)

