

## OMEGA Rollerball/ Fountain Pen Instructions

### Needed:

Mandrel: **Standard**

Drills: **15/32 and 25/64,**

Bushings: **OMEGA**

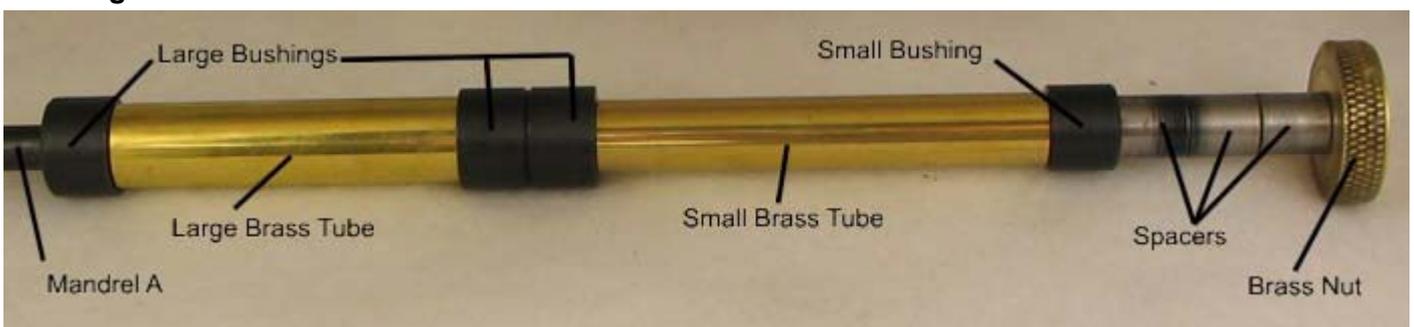
Blank Size:  $\frac{3}{4} \times \frac{3}{4}$



### Preparing the blanks

1. Cut the blanks just slightly ( $1/16'' - 1/8''$ ) longer than the length of the brass tubes so you can square off the ends after the tubes are glued in.
2. Drill the shorter blank lengthwise with the 15/32-drill bit.
3. Drill the longer blank lengthwise with the 25/64-drill bit.
4. Scuff the brass tube with sandpaper to clean off the oxidation and give the glue a better adhesion surface.
5. Plug the ends of the tube with a material of your choice – we recommend base plate wax – to keep the glue from getting into the tube. Just push the ends of the tube into a thin section of the material to form a plug.
6. Roll one of the tubes in glue and insert it with a twisting motion until it is equidistant between both ends of the blank. Repeat with the other blank.
7. Set tubes aside until the glue has had time to reach its maximum strength.
8. When the glue has cured, use a hobby knife to remove the plugs from the ends of the tubes.
9. Using a barrel trimmer of the proper size, square off the ends of each blank until you can see bright brass tube. STOP at this point. This can also be done with the proper jig and a disk sander.

### Turning the blanks



1. Put the blank on the mandrel using the OMEGA bushing set and by following the diagram above.
2. Lightly tighten the mandrel and secure. Do not over-tighten as this can bend the mandrel and cause your pen to come out oval.
3. Turn the pen blanks to the desired shape using the bushings as a sizing guide.
4. After turning the blanks, sand the surface in progressive steps until you get to 400 or 500 grit. Use a finish of your choice and polish.
5. Remove the blank from the mandrel.

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### Assembling the pen



1. Assemble the two-piece centre band by sliding the black threaded insert into the small end of the metal center band.
2. Press the centre band into one end of the cap blank.
3. Assemble the clip and finial by sliding the clip over the small end of the finial. Press the finial/clip into the other end of the cap blank. Lay the cap aside for the moment.
4. Press the nib adaptor/decorative ring into one end of the barrel blank. If you are matching grain or pattern you should place the nib in the nib holder and just snug it into the barrel. You can then screw the nib/nib holder into the cap and then turn the barrel for matching. Once you are satisfied with the match, carefully unscrew the nib from the holder, without moving the reference to the barrel, and proceed to press the nib holder into the barrel.
5. Press the barrel end cap into the other end of the barrel blank.
6. If making the rollerball:
  - a. Drop the spring into the barrel with the small end facing up or towards the refill.
  - b. Insert the refill.
  - c. Screw on the nib.
7. If making the fountain:
  - a. Choose the pump or cartridge and install it on the nib.
  - b. Screw on the nib.
8. Screw on the cap – your pen is finished.