

Cigar pencil with Schmidt mechanism

william wood-write

penblanks.ca



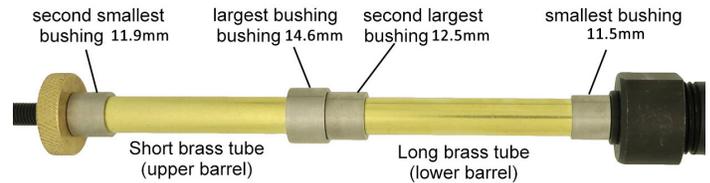
Needed:

Mandrel A; drill 10 mm; bushing 106A

Preparing the blanks

1. Cut the blanks approximately $\frac{1}{4}$ " longer than the length of each brass tube.
2. Drill each blank lengthwise through the center with the 10 mm drill bit.
3. Scuff the brass tubes with sandpaper to clean off the oxidation and give the glue a better adhesion surface.
4. Plug the ends of the tubes 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 tubes into a thin section of the material to form a plug. *This is very important: glue inside the tubes is a common cause of kit failure.*
5. Roll one of the tubes in the glue. Insert the tube with a twisting motion until it is equidistant between both ends of the blank. Repeat with the other tube.
6. Set aside until the glue has had time to reach its maximum strength.
7. When the glue has cured, use a hobby knife to remove the plugs from the ends.

Turning the blanks



1. Assemble the blanks on the mandrel following the diagram above
2. Lightly tighten the mandrel and secure. A spacer may be installed to give you more room between the thumbnut and the last bushing.
3. Turn the 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 600 grit. Use a finish of your choice. For a smooth finish, sand with Micro Mesh to 12,000 grit before applying the finish.
5. Remove the blanks from the mandrel.

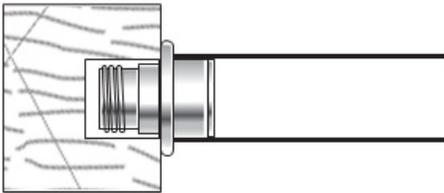
Assembling the pencil

****IT IS IMPORTANT THAT YOU FOLLOW THE SEQUENCE OF THE INSTRUCTIONS BELOW**

1. Remove the top finial and clip from the upper coupler.
2. Remove the button from the plastic

mechanism.

3. Insert the threaded end of the plastic mechanism up through the coupler.
4. Thread the button back onto the plastic mechanism.
5. Slide the clip back over the coupler.
6. Screw the top finial back onto the coupler. Set this assembly aside.
7. Slide the trim ring onto the center band and press this assembly into the larger end of the short (upper) barrel.
8. **Using a press block**, press the finial/clip/mechanism assembly into the small end of the short (upper) barrel.



* To protect the click mechanism from damage, make a press block by drilling a 5/16" hole through a 1/2" long scrap of blank. Place the press block over the button at the top of the pen so not to press directly onto the button.

9. Press the tip into the small end of the long (lower) barrel.
10. Press the lower coupler into the large end of the same barrel.
11. Insert the pencil mechanism through the coupler and screw it into the tip.
12. Screw the top barrel onto the bottom barrel.

