

Wilfred Rollerball or Fountain pen



Needed:

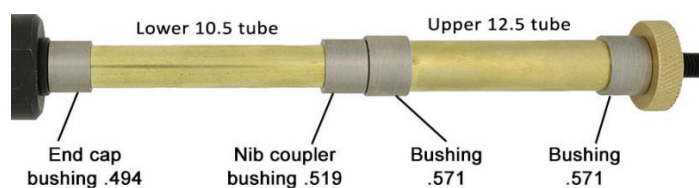
7mm mandrel, drills 10.5mm and 12.5mm, bushing set 103A

Preparing the blanks

1. Cut the blanks the length of each brass tube, giving a little extra length for squaring up the blanks after the tubes have been glued in.
2. Drill the shorter blank lengthwise with the 12.5 mm drill bit, for the upper tube.
3. Drill the longer blank lengthwise with the 10.5 mm drill bit, for the lower tube.
4. Scuff the brass tubes with sandpaper to clean off the oxidation and give the glue a better adhesion surface.
5. Plug the tube ends with a material of your choice – we recommend baseplate wax – to keep glue from getting into the tube. Push the ends of the tubes into a thin section of the material. Important: glue inside the tubes is a common cause of kit failure.
6. Roll one of the tubes in glue and insert it into the blank with a twisting motion until the tube is equidistant between both ends of the blank. Repeat with the other tube.
7. Set 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.
9. Using barrel trimmers of the proper size or the proper jigs and a disk sander, square off the ends of the blanks until you can see bright brass tube. Be careful not to shorten the tube. Not having the proper tube length is another common cause of pen failure.

Turning the blanks



1. Assemble the blanks on the mandrel referring to the diagram above.
2. Turn the pen blanks to the desired shape using the bushings as a sizing guide.
3. After turning the blanks, sand the surface in progressive steps until you get to 400 or 600 grit.
4. If a higher gloss finish is desired, continue sanding with Micro Mesh through to 12,000 grit. Then apply a finish of your choice and polish.
5. Remove the blanks from the mandrel.

Assembling the pen: Rollerball style

1. Press the finial with trim ring into the smaller end of the long tube.
2. Press the nib with trim ring into the larger end of the long tube.
3. Unscrew the nib and drop in the spring, large end first, so the narrow end is facing the refill. Insert the refill and screw the nib back on.
4. Press the centre band/coupler assembly into either end of the short tube.
5. Slide the clip onto the cap and press this assembly into the other end of the short tube.

Assembling the pen: Fountain style



1. Press the finial with trim ring into the smaller end of the long tube.
2. Unscrew the nib coupler from the nib assembly and press the nib coupler into the the larger end of the long tube.
3. Firmly press the ink cartridge into the opening of the nib assembly. Note: The ink pump can be used in place of the ink cartridge if you would prefer to draw ink from a bottle.
4. Thread the nib assembly back onto the nib coupler, with the cartridge attached.
5. Press the centre band/coupler assembly into either end of the short tube.
6. Slide the clip onto the cap and press this assembly into the other end of the short tube.

Note: The fountain pen does not use a spring.

