

Classic Roller Ball & Fountain Pen Kit Instructions

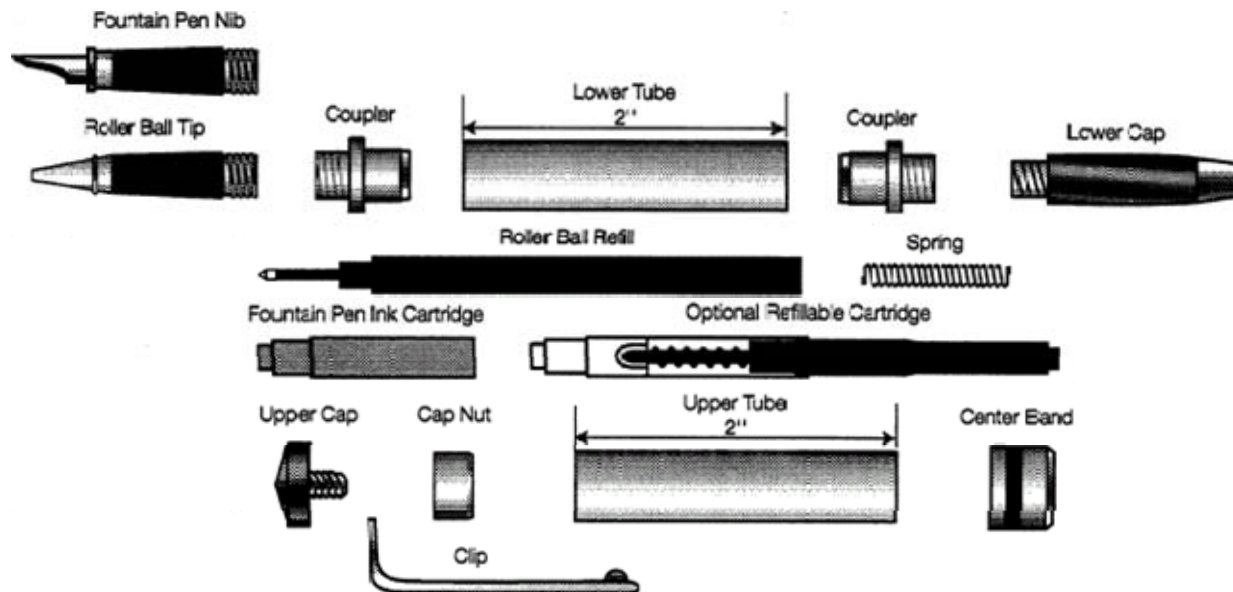
KIT FEATURES

- Heavy 24 kt. gold plating with epoxy coating.
- Pen constructed to be similar in appearance to the classic Parker® Pen design of the 1920s.
- New Screw-on Cap on the Front and Back.
- Fountain Pen uses high quality, German made Iridium Nib.
- Roller ball uses Hauser Type, German made refill.
- Overall length: 5 1/2".

REQUIRED ACCESSORIES

- 7mm long mandrel.
- Pen bushings set.
- 10mm Drill Bit
- 10mm Barrel Trimmer (optional).
- 2 part Epoxy Glue or gap-filling (cyanoacrolate glue).

Diagram A / Parts List & Layout



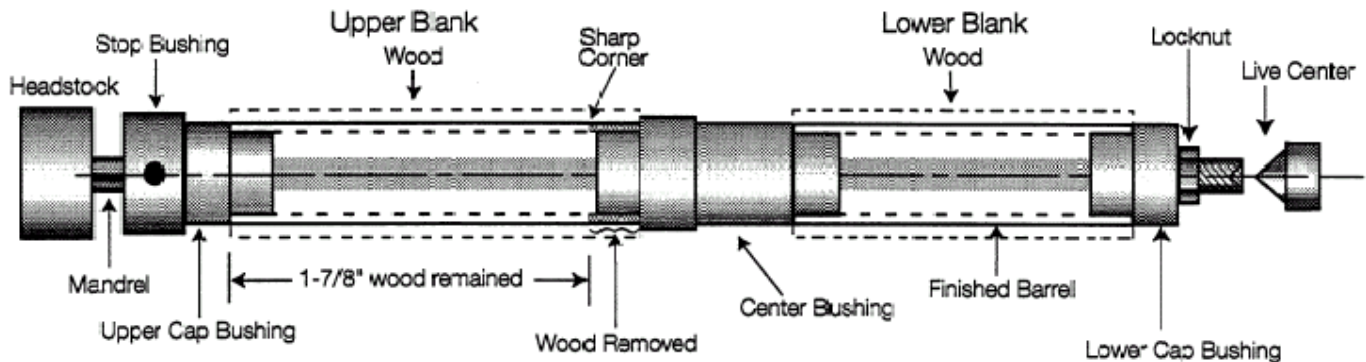
You may find in our kit a short small brass tube and 2 o-rings not shown in this picture. These items are not used in the pen assembly itself, but can be used as a spacer in the pen barrel when using shorter ink refill cartridges.

Preparing the Blanks

- Cut 3/4" to 5/8" square blanks to the length of the brass tubes (add 1/16" for squaring off).
- Drill a 10mm center hole lengthwise through each blank.
- Spread glue over tube. Insert each tube into proper blank with a twisting motion to spread the glue evenly inside. Center each brass tube lengthwise in the wooden blank.
- When the glue dries, square ends of blanks. Use a 10mm barrel trimmer or

belt/disc sander to trim the wood flush to the brass tube at each end, making sure the wood ends are perpendicular to the tubes.

Diagram B / Turning The Blanks



Turning the Blanks

- First, place the stop bushing on the mandrel hand tight. Next, place the cap bushing (longer one) wide end first. Then slide on the either blank. Place the center bushing (wide end first) on the mandrel.
- Slide on the other blank and follow with shorter tip bushing, narrow diameter first. Thread on the lock nut hand tight. Bring the tail stock snug with the mandrel. (Do not overtighten, it could damage the mandrel).
- Slide the stop bushing toward the blank adjusting to remove spaces. Then tighten the set screw and tighten the lock nut.
- Turn wood down flush with the bushings using lathe chisels and various grits of sandpaper (see note).

NOTE: Be sure to sand down the wood on the lower blank flush with the bushing. Otherwise, the lower blank may get jammed inside the upper tube when engaged. Finished lower blank must fit inside upper blank. Test for clearance and fit before finishing.

Removing Wood For Center Band:

- Use a pencil to mark 1-7/8" from the upper cap bushing on the upper barrel. Use a parting tool to remove the excess wood down to the brass tube. Be careful, you must retain a sharp 90 degree corner at the end of the upper blank when you remove the excess wood.
- Sand the wood and finish with one of fine polishes or wax for a brilliant gloss.

Fountain Pen Assembly

Assembly Of Body Barrel

- Line up and identify finished parts according to Diagram A.
- Press a coupler into each end of the barrel.
- Screw in the plastic end cap (either end).
- Push the ink cartridge, (narrow end first) into the open end of the nib assembly to the end to break and opening and allow the ink to flow. Screw in assembly into the barrel.
TIP: Stroke the pen nib from the small hole to the tip with a damp paper to help start the ink flow.
- OR when using the refillable cartridge, push the clear end of the cartridge into the opening of the nib assembly until it clicks. Screw the inner shaft counter-clockwise all the way down inside the cartridge. Now, dip the nib into an ink bottle and slowly turn shaft upwards (clockwise) to draw ink in until the reservoir is filled. Screw the nib assembly back into the barrel.

Assembly of the Cap Barrel

- Press cap nut, recess end first, into the flat end of the barrel.
- Press the center band, (square end first) over the exposed end of the brass tube to the wood. Use a drop of glue if necessary.
- Insert the threaded stud on the upper cap into the hole in the clip. Next, thread this assembly tightly into the cap nut..

Operating The Pen

- The Fountain Pen is ready to operate. A quick 1/4 turn will screw ends together. When using the pen, screw the cap over the body end. Always keep the nib covered when not in use to avoid the ink drying out.

Roller Ball Pen Assembly

Assembly Of Body Barrel

- Line up and identify finished parts according to Diagram A.
- Press a coupler into each end of the barrel.
- Screw in the plastic end cap (either end).
- Drop the spring into the barrel. Remove the cover from the ink refill and insert the flat end inside the barrel. Screw on the tip over the point.

Assembly of the Cap Barrel

- Press cap nut, recess end first, into the flat end of the barrel.

- Press the center band, (square end first) over the exposed end of the brass tube to the wood. Use a drop of glue if necessary.
- Insert the threaded stud on the upper cap into the hole in the clip. Next, thread this assembly tightly into the cap nut..

Operating The Pen

- The Roller Ball Pen is ready to operate. A quick 1/4 turn will screw ends together. When using the pen, screw the cap over the body end. Always keep the tip covered when not in use to avoid the ink drying out.

