# Retro Rollerball/Fountain Pen Kit Instructions



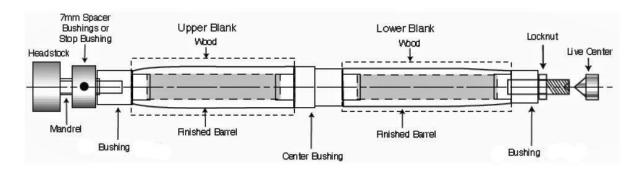
### **Required Accessories**

- 7mm Pen Mandrel
- 3 Piece Bushing set
- 12.6mm drill bit
- 10.6mm drill bit
- Glue
- 2cm\*2cm\*18cm long blank



#### **Preparing the Blanks**

- 1. Cut blanks to the lengths of the tubes, adding 1.5mm for trim.
- 2. Drill a hole lengthwise through each blank.
  - a. Upper blank (shorter) 12.6mm hole
  - b. Lower blank (longer) 10.6mm hole
- 3. Glue the tubes into the blanks. Coat the outside of the tube with glue and insert the tube into the blank with a twisting motion to spread the glue until flush. Allow it to dry.
- 4. Square the ends of the blanks to the tubes.



#### **Turning the Blanks**

- 1. Slide a 7mm spacer bushing onto the mandrel shaft, followed by a cap bushing. Slide on the shorter blank which will be the cap barrel. Next add the centre bushing, largest diameter first, and then the longer blank followed by the other cap bushing. Add additional spacer bushings as necessary to reach the mandrel threads.
- 2. Thread on the locknut hand tight. Bring the tailstock in snug to the mandrel, lock in place. Tighten the lock nut for turning. DO NOT over tighten the locknut it could damage the mandrel.
- 3. Turn the barrels close to the bushing diameter with sharp tools (straight or to a profile of your choice). Sand the barrels to match the bushing diameter.
- 4. Finish the wood with your choice of polish.

#### **Fountain Pen Assembly**

- 1. Layout the parts according to the picture below. If any parts are screwed together, disassemble them first.
- 2. Press the cap/clip assembly in to one end of the shorter barrel and the centre band, black end first, into the opposite end.
- 3. Press the cap coupler into one end of the other, longer barrel then screw on the cap.
- 4. Press the nib coupler into the opposite end.
- 5. Attach the ink cartridge to the end of the fountain nib, then thread the fountain nib into the nib coupler



## **Rollerball Pen Assembly**

- 1. Layout the parts according to the picture below. If any parts are screwed together, disassemble them first.
- 2. Press the cap/clip assembly in to one end of the shorter barrel and the centre band, black end first, into the opposite end.
- 3. Press the cap coupler into one end of the other, longer barrel then screw on the cap.
- 4. Press the nib coupler into the opposite end.
- 5. Insert the spring and then the ink refill into the lower tube. Thread the rollerball nib into the nib coupler.

