

## Conservative Rollerball & Fountain Pen Kits

### Required Accessories:

- 7mm pen mandrel
- 3piece Bushing Set
- 10mm Drill Bit
- Universal Barrel Trimmer
- 2 part epoxy glue or instacure glue (cyanoacrylate)

### Preparing the Blanks:

- Use a 5/8" square stock. Cut blanks to the length of the tube, adding 1/16" for trim.
- Drill a centered hole lengthwise through each blank.
- Use epoxy or a gap filling cyanoacrylate (super glue), to glue the tube into the blank. Coat the outside of the tube with epoxy and insert the tube into the blank with a twisting motion to spread the glue until flush. Allow it to dry.
- With a barrel trimmer, square the ends of the blanks to the tubes.

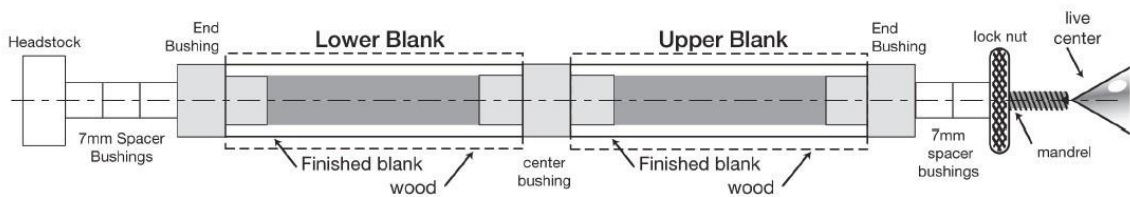
### Turning the Blanks:

- Slide 7mm spacer bushings onto the mandrel shaft, followed by the end bushing, wide end in first. Slide on the lower blank. Next, add the center bushing, narrow end first. Place the upper blank followed by the end bushing, smaller diameter in first. Add additional spacer bushings as necessary to reach the mandrel threads.
- 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.

- Turn the barrels close to the bushing diameter with sharp tools; sand the barrels to match the bushing diameter.
- Finish the wood with your choice of polish

DIAGRAM B / Turning the Blanks



### GENERAL ASSEMBLY

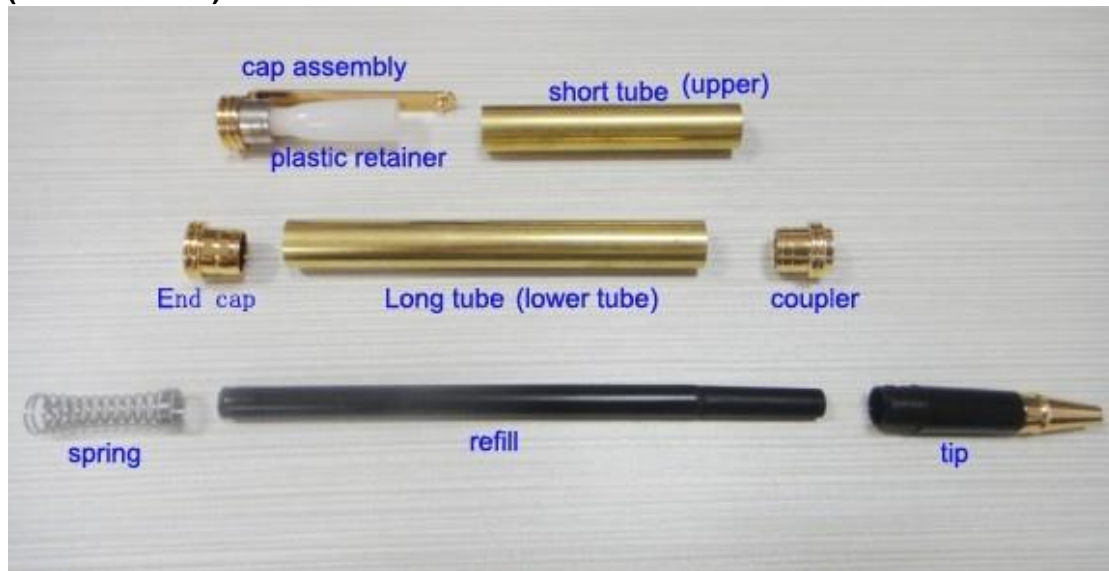
- NOTE: Line up the components according to the DIAGRAM C-1 (Roller Ball) or DIAGRAM C-2 (Fountain Pen).

### ROLLER BALL PEN ASSEMBLY (DIAGRAM C-1)

1. Press the end cap into one end of the lower tube.

2. Un-screw the rollerball tip from the tip coupler, then press the tip coupler into the other end of the long tube.
3. Insert the spring into the pen through the tip coupler. Slide the refill in and screw on the rollerball tip.
4. Press the clip assembly into one end of the upper tube.
5. Click the cap onto the pen body.
6. Your pen is finished.

**(DIAGRAM C-1)**



**FOUNTAIN PEN ASSEMBLY (DIAGRAM C-2)**

1. Press the end cap into one end of the lower tube.
2. Un-screw the fountain tip from the tip coupler, then press the tip coupler into the other end of the long tube.
3. Screw fountain tip into the coupler.
4. Press the clip assembly into one end of the upper tube.
5. Click the cap onto the pen body.
6. Insert ink cartridge into the tip assembly and squeeze the cartridge lightly to advance the ink to the nib.

**(DIAGRAM C-2)**

