Teacher Pen Kit

TEACH-G & TEACH-CHR

william wood-write
penblanks.ca



Recommended Supplies:

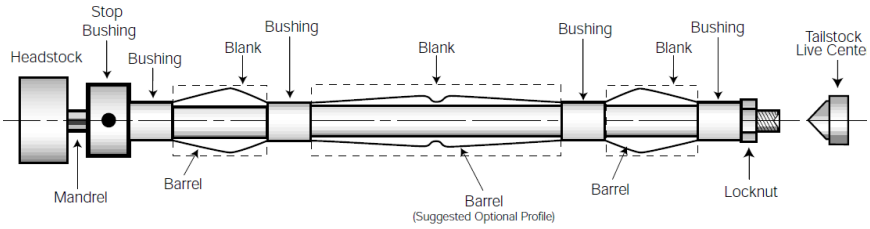
7 mm pen mandrel
7 mm drill bit
Bushing set BUSH-1A
7 mm pen mill & ¾" cutterhead
Mandrel saver or 60° live center
Thick CA glue or 2-part epoxy

Preparing the Blanks:

1. Cut the blanks approximately ¼" longer than each brass tube.
2. Drill each blank through the centre, lengthwise, with a 7 mm drill bit.
3. Lightly scuff brass tubes with sandpaper to improve glue adhesion.
4. Plug the ends of each tube with baseplate wax or a similar material to prevent glue from entering the tube (glue inside tubes is a common cause of kit failure).
5. Roll each tube in glue and insert them into the blanks using a twisting motion. Ensure tehe tubes are centred in the blanks. Allow glue to fully cure, then remove the plugs.
6. Square the ends using a pen mill and cutter head (a.k.a. barrel trimmer) or disc sander. Stop when the brass is just visible. Do not shorten the tubes.

Turning the Blanks:

1. Assemble the blanks on the mandrel using bushing set BUSH-1A.
2. Bring up the tailstock, lock it down, and tighten it against the mandrel. Do not overtighten.
3. Turn the blanks to your desired shape using the bushings as a sizing guide.
4. Sand through progressive grits and apply a finish of your choice.
5. Remove blanks and bushings from the mandrel.



Assembling the Kit:

1. Press the tip into either end of the end barrel.
2. Press the twist mechanism, brass end first, into the other end of the end barrel. Press it up to the intendation line, then stop to test-fit the refill and refill guide to ensure the refill extends the proper length. The refill guide threads into the top of the twist mechanism. You may have to press it a couple millimeters past the intentation line in order for the refill to extend fully.
3. Repeat the above steps for the other side of the pen.
4. Slide a center band over each twist mechanism and push each end into either end of the center barrel.

