

Turning an Artisan® Soft Touch Stylus

Supplies Needed

- 7mm Colt 5 Star Drill Bit
- 9/16" x 4-5/8" Pen Blank
- Pen Mandrel
- Slimline Pen Bushings
- Glue (Thick CA or Epoxy)
- Sandpaper/Finish
- Drill or Drill Press
- Barrel Trimmer/Disc Sander
- Pen Press or Clamp
- Eye and Ear Protection

Cutting and Drilling the Pen Blank

1. Cut the blank 1/4" longer than the brass tube.
2. Using a drill press with the blank secured in a vise or clamp, drill a hole through the center of the blank stopping an 1/8" short of the bit exiting the blank. Drill at 2,000–3,000 rpm backing the drill bit partially out of the hole every 1/2" to clear chips. When using larger bits or drilling plastics drill at 250–500 rpm.
3. Trim away a small amount of wood from the end of the blank to expose the hole. The blank should be slightly longer than the brass tube. This technique prevents cracking caused when the bit exits the blank.

Gluing the Brass Tube Into the Blank

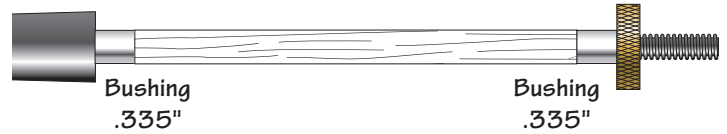
1. Lightly scuff the exterior of the brass tube with 220 grit sand paper to prepare it for gluing.
2. For a fast bond, use thick cyanoacrylate adhesive (super glue) or 5 minute epoxy. Apply a thin layer of glue to the tube and inside the wood blank. Insert the tube into the blank rotating it as you go to spread the glue evenly. Position the brass tube in the blank so that the wood extends beyond the tube on both ends to allow for trimming.

Trimming/Truing the Blank

1. Square the ends of the wood blank with the tube using either a barrel trimmer or disc sander. This step is critical for the stylus components to fit together properly. **Do Not** trim the brass tube as this may result in an improper fit when the stylus is assembled.

Mandrel Setup and Turning

1. Assemble the bushings and blank on the pen mandrel as shown below.
2. Advance a 60° revolving cone center into the dimpled end of



the mandrel and tighten using light pressure. **Do Not** over tighten the tailstock or mandrel nut as this may cause the mandrel to flex resulting in off-center barrels.

3. Turn the blank to the desired shape leaving the blank slightly larger than the bushings.
4. Sand the blank using progressively finer grits of sand paper, then apply the finish.

Assemble the Parts

Layout the parts as shown. Use a vise or clamp with wood or plastic jaws to prevent damaging parts during assembly.

1. Slide the clip onto the stepped portion of the cap. This will only slide part way on so do not attempt to force it on.
2. Press the clip/cap assembly into the end of the tube.
3. Press the tip coupler, stepped end first, into the opposite end of the same tube until it seats against the brass tube.
4. Thread the stylus tip onto the tip coupler. (We recommend using a small amount of Loctite® on the threads of the stylus tip to keep it in place.)
5. Your new Artisan® Soft Touch Stylus is ready for you to enjoy.

