

The Professional Twist Pen Kit

Kit Features

- Sleek, Elegant Design
- Double Tapered, Comfortable Tip
- Easy to Turn with a Straight Tube
- Minimal Parts--easy to assemble
- Available in multiple finishes
- Overall Length: 5-1/2"

Required Accessories

- 7mm Pen Mandrel
- Drill Bit: # PK-38BP for Wood, # PKEXEC-38 for Plastic
- Bushing Set(2pc): #PKPRFBU
- Barrel Trimming: PKTRIM38 or 3/8" sleeve from #PKTRIMSET
- Live Tailstock or Mandrel Saver
- 2 part Epoxy or Thick CA (Cyanoacrylate) Glue
- Pen Blank Minimum Size: 3/4" x 3/4" x 2-7/8"L



Preparing the Blank:

- Cut blank to the length of the tube, adding 1/16" for squaring off.
- Drill 3/8" hole lengthwise through the blank.
- Spread glue over tube, insert the tube into the blank with a twisting motion to spread the glue evenly inside.
- Center the tube lengthwise inside the blank.
- When the glue is dry, square the ends of the blanks, making sure the trimmed ends are 90° to the tube. Use a 3/8" Barrel Trimmer or a 3/8" Sleeve with a pen blank squaring jig on a disc sander. Take the excess material down flush to the ends of the tubes. Do not trim past the end of the tube since this may interfere with assembly and the operation of the mechanism. Use a barrel trimmer to clean the inside of the tube.

DIAGRAM B / TURNING THE BLANK



Turning the Blank:

- Mount the bushings and blanks according to diagram B.
- When using Mandrel Saver, there is no need for extra spacer bushings or the knurled nut. Slide and lock tailstock directly against bushings and tighten quill until blank and bushings are secure.
- To Used Knurled Nut setup (right), add spacer bushings until past the threads on the end of the Mandrel Shaft.
- Thread on the Knurled Nut and hand tighten to hold all components in place.
- Slide the Tailstock up snugly against the Mandrel shaft, inserting the live center point into the Mandrel dimple. .
- Lock Tailstock and hand tighten the quill adjustment with wheel to steady the mandrel. Do not over-tighten, it could damage mandrel shaft.
- Using sharp tools, turn the blank down close to the bushing diameter. Turn the barrel straight or to a profile of your choice.
- Sand the blank down to be flush with the bushings, gradually increasing sandpaper grits.
- Finish the barrel using your choice of polish. Allow sufficient time for the polish to cure—refer to polish instructions.

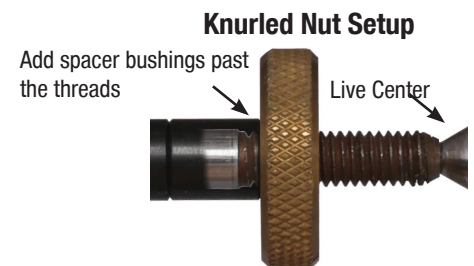


Diagram C / Bushing #PKPRFBU

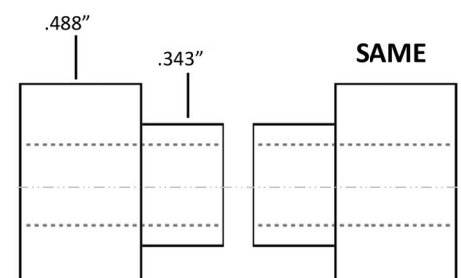
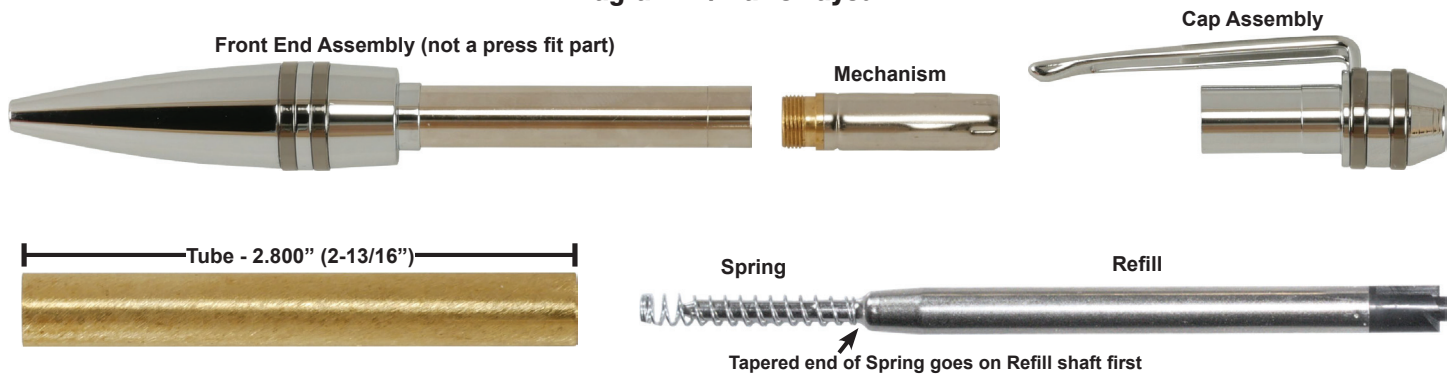


Diagram D / Parts Layout

**Assembly:**

- Note that Front End Assembly does not press fit in the tube. It must be able to twist inside the tube.
 - Press Cap Assembly into either end of the Barrel.
 - Slide Spring –tapered side first– onto the Refill shaft.
 - Insert Refill and Spring into the open end of the Front End Assembly.
 - Thread Mechanism, over the back of the Refill, into the Front End Assembly
 - Push the Front End Assembly into the open end of the Barrel until the attached Mechanism is fully seated into the Cap Assembly inside the Barrel and the gap between the Barrel and Front End is closed.
 - To extend and retract Refill, twist Front End clockwise and counter-clockwise.
 - To Change Refill: Unscrew Front End Assembly from the Mechanism and replace with new Refill. Remember to switch Spring to new Refill. Position refill to seat inside of cap.
- (NOTE: If refill tip extends too far out, refill is not properly seated)**