

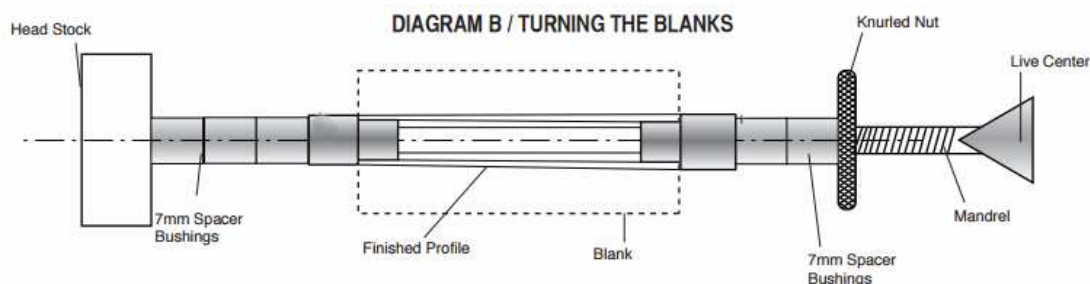
## Bright Crystal Twist Pen Kits Assembly Instructions

### Required Accessories:

- 7mm Pen Mandrel
- Drill Bit: 8mm
- Bushing set(2 pc) #8854
- Barrel Trimming set (use 8mm shaft)
- Live Tailstock Center
- 2 Part Epoxy Glue or Cyanoacrylate Glue

### Preparing the Blank:

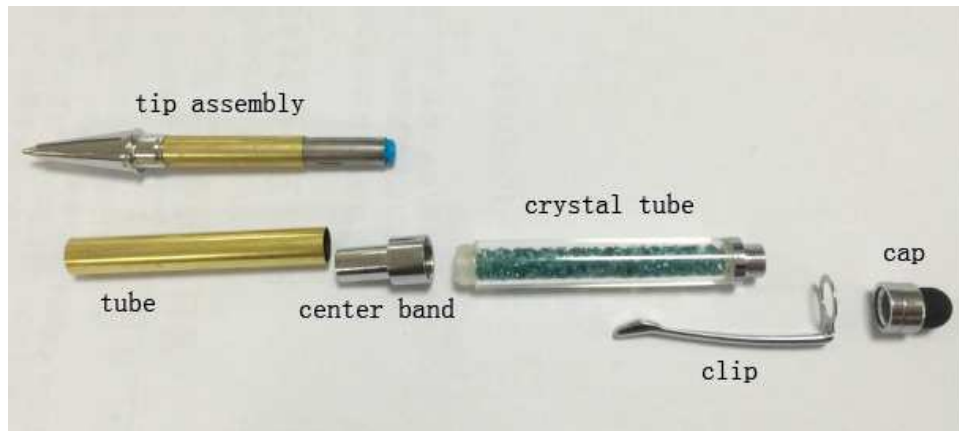
- Cut one blank to the length of the tube and add 1/16" for squaring off.
- Drill an 8mm hole lengthwise through the blank.
- Spread glue over the tube, insert into the blank with a twisting motion to spread the glue evenly inside.
- Center the tube lengthwise inside the blank.
- When the glue is dry, square the ends of the blank. You can use a 8mm barrel trimmer, or a universal pen blank squaring jig with a power disc sander. Take the excess material down flush with the ends of the brass tube. (do not trim beyond the length of the tube since this may interfere with operation of the mechanism and assembly).



### Turning the Blank

- Mount the bushings and blanks according to diagram B.
- 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 in place.
- Hand tighten the quill adjustment to firm up the mandrel. (DO NOT overtighten, it could damage the mandrel)
- 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 the sandpaper grits.
- Finish the barrel with your choice of polish. Allow sufficient time for the polish to cure. Refer to polish instructions.

## Diagram A



### Assembly

Layout parts according to diagram A

- Insert the refill and screw clockwise into bottom. Press the barrel, narrow end over the tip assembly towards the tip.
- Press the center band to the tip assembly.
- Place the clip into the crystal tube and then screw the cap .
- Screw the upper assembly into the center band.
- The pen is ready to use by twisting both ends to extract or retract the refill tip.