

Workshop/Sketch Pencil Kit

Kit Features:

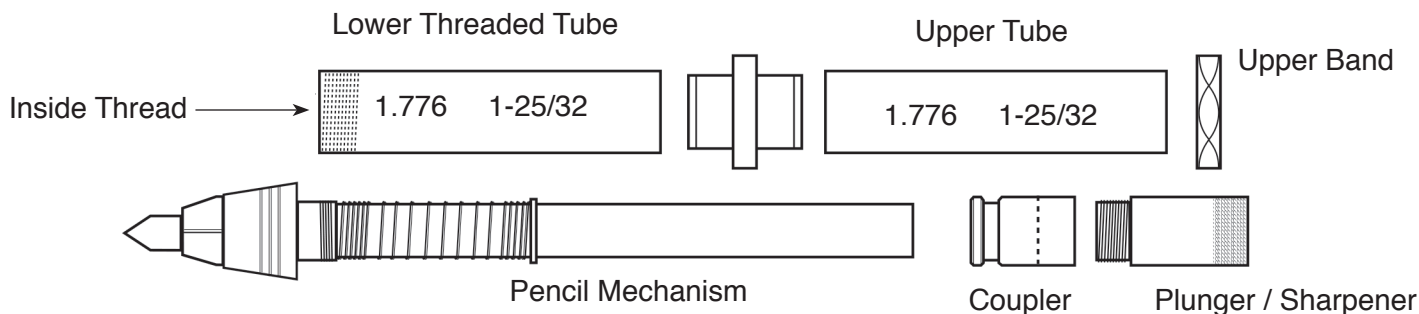
- Heavy duty chrome-plated construction
- Click Operating Mechanism
- Strong 5.6mm lead
- Multi-color Magic lead to mark metal and glass (optional)
- Built-in sharpener inside pencil plunger
- 6-sided upper band to avoid rolling

Required Accessories:

- 7mm Pen Mandrel
- 3 pc bushing set #PKSPCLBU
- 11mm drill bit #PKPARK-11MM
- Universal pen blank squaring jig #PKSQUARE or disc/belt sander
- 2 Part Epoxy Glue or Insta Cure (Cyanoacrylate) Glue



DIAGRAM A / PARTS LAYOUT

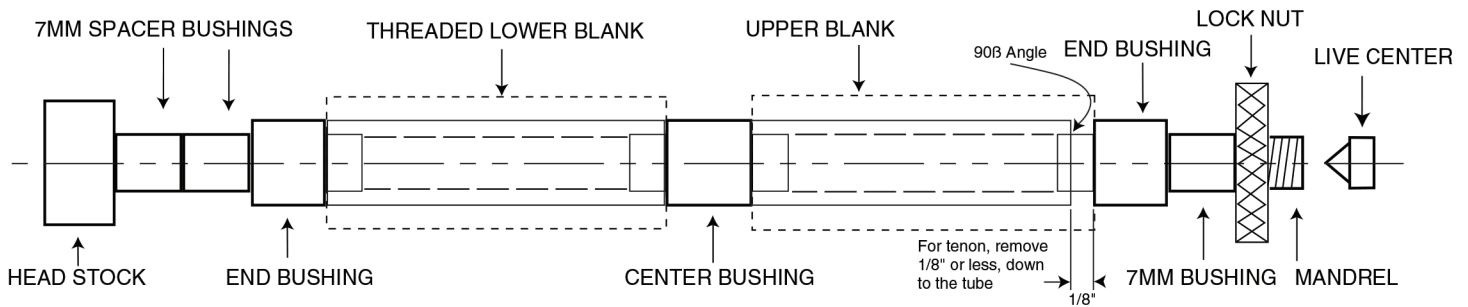


Preparing the Blank:

- Cut 3/4" to 5/8" blanks to the length of the tubes and (add 1/16" for squaring off)
- Drill an 11mm center hole lengthwise through each blank.
- Spread glue over the tubes and insert each tube into the blank with a twisting motion to spread the glue evenly inside. Center each tube lengthwise in the pen blank.

NOTE: The lower tube is threaded inside. To prevent glue from spreading inside the tube onto the thread, you must plug the opening before gluing. You can use a potato slice or and other suitable material to plug the whole.

- When the glue is dry, square the ends of the blanks. Use a universal pen blank squaring jig with a power disc sander, or wrap masking tape around the shaft of your barrel trimmer to square the ends.

DIAGRAM B / TURNING THE BLANKS**Turning the Blank**

- Place a 7mm spacer bushing onto the mandrel. Follow with an end bushing, wide end on first. Slip the threaded lower blank on and place the center bushing on next. Follow with the upper blank, then the end bushing, narrow end first. Insert a spacer bushing to close the space to the thread. Thread the knurled nut and hand tighten. Slide the tailstock snug to the mandrel shaft (do not over tighten, it will damage the mandrel), lock in place. Snugly tighten the knurled nut to avoid spinning the blanks.
- Turn the wood down, flush with the bushings, using lathe chisels and gradual higher grits of abrasives. Finish the wood with friction polish for a brilliant finish.
- Pencil mark 1/8" or less at the upper blank (see Diagram B) use a tenon cutting tool to remove the wood down to the brass tube. Make sure to leave a sharp 90° corner.

Assembly

- Line up finished parts according to Diagram A.
 - Press the center band extension into the lower barrel.
- NOTE: press into the opposite end of the threaded side.
- Press center band into the end of the upper barrel, opposite the tenon.
 - Press the six-sided upper band over the recess/tenon. This may require a drop of CA glue if the band is loose.
 - VERY IMPORTANT - Remove the lead from the Mechanism.
 - Insert the pencil mechanism into the opening at the lower barrel. Thread into place.
 - Loosely screw the plunger / eraser into the coupler just enough to hold it. You don't want it to accidentally get glued in next step.
- Plunger and kit should be kept sideways for the next step to prevent glue from running.
- Carefully squeeze a drop of (thick, not thin) cyanoacrylate into the opening of the coupler and quickly insert assembly through the top end, over the back of the pencil mechanism inside. Be careful not to tilt until the glue cures (about 20 seconds).
 - Once you are sure the glue has cured, secure the plunger into coupler. Push down on plunger and insert lead into mechanism opening.
 - To sharpen the lead, unscrew the plunger and insert over the lead and turn lightly.
 - To replace the lead with the magic lead, depress the plunger to pull lead out and replace.

Diagram C / Bushings #PKSPCLBU