

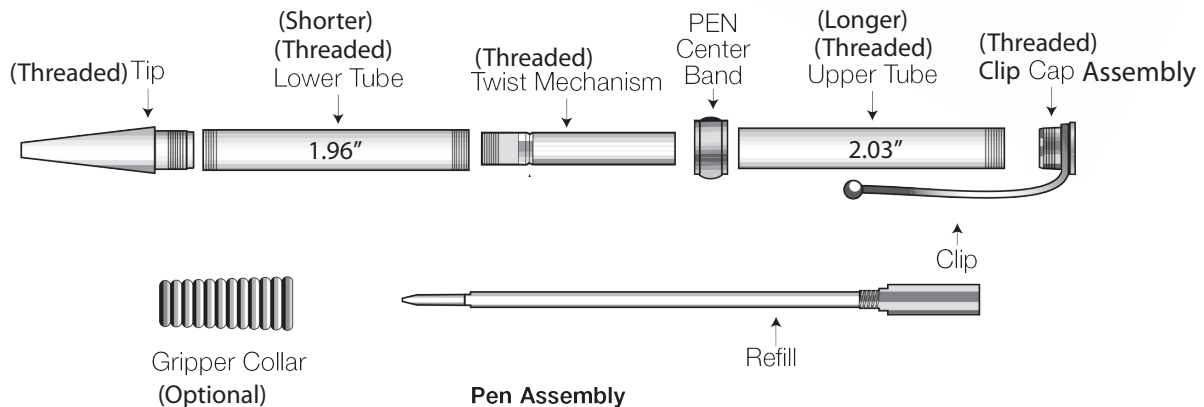
Comfort Pen Kit (No Press Style)

Kit Features:

- No Press Assembly (Parts screw together).
- Compatible with turned or poly-clay barrels.
- Heavy Plating with Epoxy Coating.
- Optional Non-Slip Silicone Collar for sure grip holding.
- Easy to exchange tubes & components.
- Pen uses Cross® type ball point pen refill.
- Overall Length: 5-1/8"



DIAGRAM A / PARTS LAYOUT



Note: Line up parts according to layout above.

WOODTURNING INSTRUCTIONS

Required Accessories: (Wood Turning)

- 7mm Pen Mandrel
- 7.5mm Drill Bit #PK-75MM
- 3pc. Bushing Set #PKCFBUSH
- 7MM Barrel Trimmer #PKTRIMKIT (use 7MM shaft)
- 2-part Epoxy or Thick CA (cyanoacrylate) glue

PREPARING THE BLANK (Wood Turning)

- Cut a 3/4" or 5/8" pen blanks to the length of both pen tubes, plus 1/16" for squaring off for each.
- Drill a 7.5mm hole lengthwise through the blanks.
- Spread glue over the tubes, insert the tubes into the blanks with a twisting motion to spread the glue evenly inside. Be careful that glue does not get inside of tubes to prevent the threads from clogging.
- Center the tubes lengthwise inside the blanks.
- When the glue is dry, square the ends of the blanks, making sure the trimmed ends are 90° to the tubes. Use a 7mm Barrel Trimmer or a pen blanks squaring jig on a disc sander. Take the excess material down flush to the ends of the tubes. Be very careful not trim into the brass tubes since this may damage threads and make kit unusable.

TURNING THE BLANK

- Mount the bushings and blanks according to diagram B. Note the Lower Tube is shorter.
- If you do not plan to use the rubber Comfort Grip, substitute a standard 7mm bushing for one of the larger comfort bushings and skip the next section.
- If using the Comfort Grip, the larger bushings go in the center and on the Tip end of the Lower Barrel.
- 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.
- Hand tighten the quill adjustment on the tailstock to steady the mandrel. Do not over-tighten, it could damage the mandrel shaft.
- When using Mandrel Saver, there is no need for extra spacer bushings or the knurled nut. Slide tailstock directly against bushings and tighten until blanks and bushings are secure.
- Using sharp tools, turn the blanks down close to the bushing diameter.
- If using the Comfort Grip, Turn a straight profile on the Lower Barrel (between the large bushings), and mark a line 1" from the Tip End. Remove material from the marked line to the Tip End, all the way down to the Brass Tube.
- Sand the blanks down to the bushings, gradually increasing sandpaper grits.
- Finish the barrel using your choice of polish. (refer to polish instructions).

DIAGRAM B / Turning the Blank

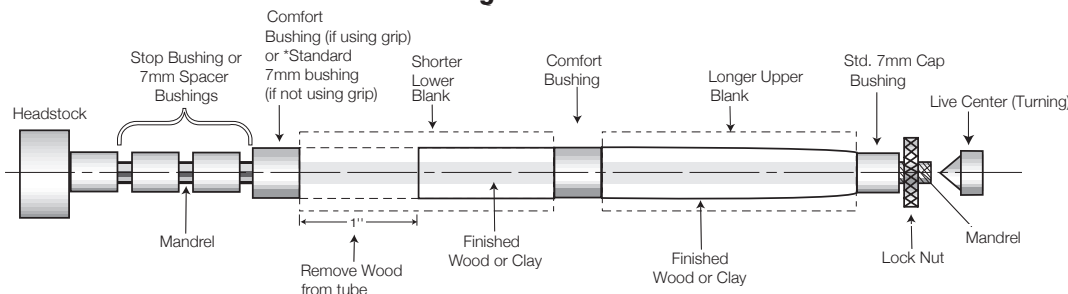
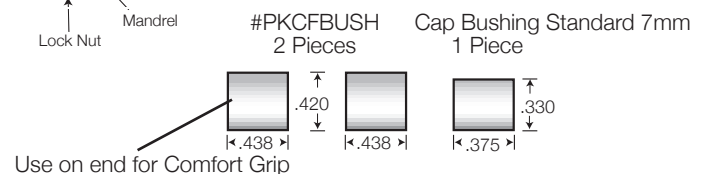


DIAGRAM D • #PKCFBUSH



POLYCLAY INSTRUCTIONS

Required Accessories: (PolyClay)

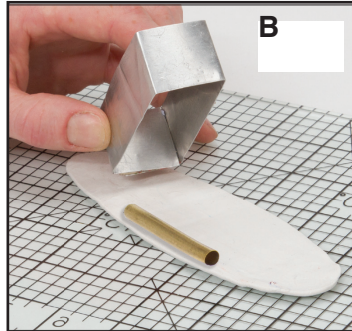
- PloyClay Acrylic Roller #MCM-AR
- PloyClay Border Cutter #MCM-CL (3/8" size)
- PloyClay Slicing Jig #MCM-SJ
- PloyClay Slicing Blade #MCM-BLA
- PloyClay Cutting Board #MCM-CBD
- PloyClay Mandrel #MCM-MAN
- PloyClay Sanding Set #MCM-SAP

For More Information: Refer to Pen Making Instructions online at http://www.pennstateind.com/library/POLYCLAY_INS.pdf

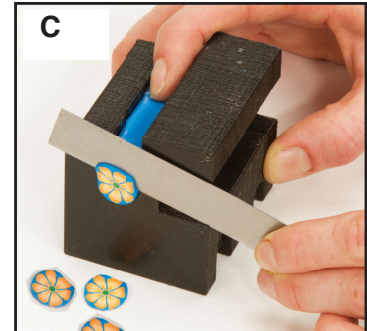
NOTE: For this no press Pen you can thread together the pen components for sizing the final diameter of the clay at the ends of the tube. However you must remove the component prior to curing in the oven



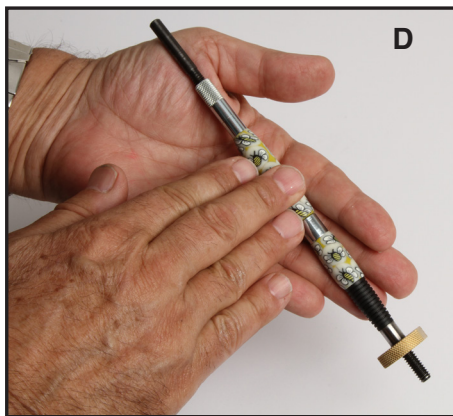
A
Roll base layer to very thin layer



B
Cut to the side of tubes, wrap slices around tube



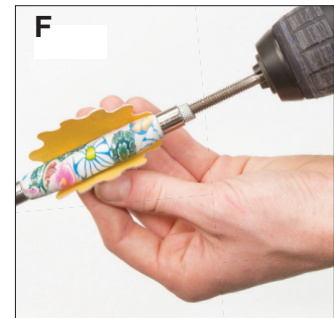
C
Cut thin layers of cane for decoration



D
Mold on mandrel - apply cane around tube. See Dia. C



E
Bake in oven at 275° for 30 minutes - allow to cool



F
Mount mandrel in hand drill to sand

Diagram C - Mandrel Setup (PolyClay)



ASSEMBLY (Wood or PolyClay Barrels)

- Line up the parts according to Diagram A. Note that Lower Barrel is shorter.
- If using Comfort Grip slide it onto 1" section of bare tube.
- Screw Tip into Tip End of Lower Barrel.
- Screw Twist Mechanism into other end of Lower Barrel until it stops. Make sure it is tight to prevent loosening during use.
- Thread refill into the back of Mechanism and test operation by twisting in both directions.
- Screw Cap/Clip Assembly onto the threaded end of Upper Barrel.
- Slide Center band, followed by Upper Barrel over back of mechanism
- Operate by twisting Upper Barrel to extend and retract Refill.
- To change Refill, pull Upper Barrel off Mechanism and unscrew old refill and replace with new.

