

Native Pens

Fancy Slimline Pencil Instructions

Required:

¼" Mandrel

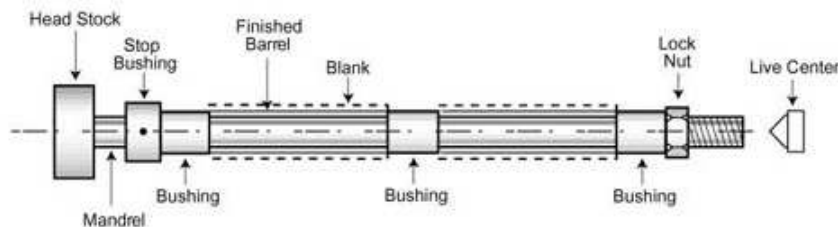
7mm Drill Bit

Pen Mill

Slimline Bushings

Turning the Pen Barrels.

1. Cut a pencil blanks slightly longer than the brass tubes.
2. Drill the blank through the centre, lengthwise, with a 7mm bit.
3. Sand the surface of the brass tube. This can be done by hand or mounted in the bushes on the lathe. This will clean off any oxidation and roughen the surface for a better glue bond.
4. Bond the tubes into the timber blanks. This can be done with CA or a two-part epoxy glue. Insert the tube with a twisting motion then push it in until slightly under flush. About equal distance in from each end of the timber blank.
5. Allow glue to cure as required by glue manufacturer.
6. Clean all the dried glue from inside the brass tube. Not cleaning out all the glue from the tube is the most common cause of pen failure and assembly issues.
7. Using a Pen Mill, face off the ends of the blanks until you can just see the bright brass end of the tube. STOP facing at this point. Another method to square the ends is sanding on a disc sander against a square fence or using a jig to hold the tube square to the disc, then lightly touching the end with the Pen Mill to finish them.
8. Once the blanks are square and you can see the ends of the tube brighten you can mount the blanks to the mandrel and finish the turning until the desired shape is reached.

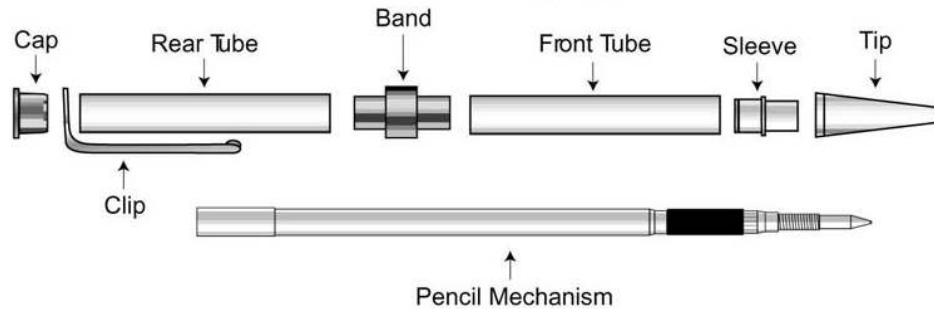


9. Finish the pencil to your specifications. Remove the barrels from the mandrel and it is ready for assembly.

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Assembly of the pencil.



Please note: the Band and Cap parts are quite thin and easy to damage during assembly. Care should be taken to ensure parts are aligned correctly before applying pressure to press the parts into place.

1. Press the sleeve; recessed end first, into the end of the front tube until it hits the shoulder.
2. Press the Band into the opposite end of the front barrel.
3. Align and press the rear tube onto the Band. Great care should be taken here to ensure the tubes press on square!
4. Fit or Press the Clip onto the Cap.
5. Press the Cap and Clip into the Rear Tube. Again take care to ensure the cap is aligned correctly. It is easy to distort the hollow cap during this pressing operation.
6. Insert the mechanism through the cap and out the opposite end.
7. Screw the Tip firmly onto the threaded end of the mechanism.
8. Insert the rubber cover onto the exposed end of the mechanism.