

Diamond Painting Pen Kit



Needed:

6.25mm drill bit, 60-degree live center, 60-degree dead center

Please note: This kit is turned between centers and does not use bushings. You'll need a 60-degree dead center and a 60-degree live center to turn this kit.

Preparing the blank

1. Cut the blank $\frac{1}{4}$ " longer than the brass tube so you can square it off once the tube has been glued in.
2. Drill a hole lengthwise through the center of the blank with a 6.25mm drill bit.
3. Scuff up the tube with sandpaper to clean off the oxidation and give the glue a better adhesion surface.
4. Plug the tube ends with a material of your choice – we recommend baseplate wax – to keep the glue from getting into the tube. Just push the ends of the tube into a thin section of the material to form a plug.
5. Roll the tube in the glue and insert it into the blank with a twisting motion until it is equidistant

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between both ends of the blank.

6. Set aside until the glue has had time to reach its maximum strength.
7. When the glue has cured, use a hobby knife to remove the plugs from the ends.
8. Square off the ends of the blank with a disc sander just until you can see the bright brass tube.

Turning the blank

1. Mount the blank on the lathe between centers. You'll need a 60-degree dead center in the headstock and a 60-degree live center in the tailstock. Be careful not to overtighten the tailstock as this can crack the blank and/or expand the brass tube, causing the parts to fit loosely.
2. Turn the blank to the desired profile, using calipers to measure the diameter of the blank on each end. The finial/clip end should be approximately 8.4mm, and the tip end should be approximately 7mm.
3. After turning the blank, sand and apply your finish of choice.
4. Remove the blank from the lathe.

Assembling the parts

1. Press the top finial/clip assembly into the larger end of the blank.
2. Select the insert of your choice and push it into the other end of the blank.