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MULTIFUNCTION PEN

Instructions

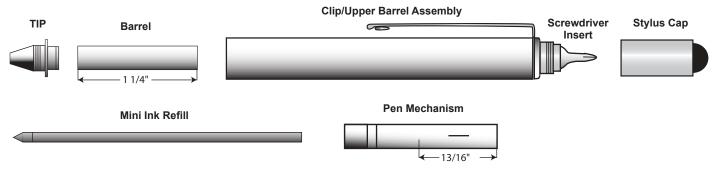
Kit Features

- · Lightweight, small, and compact
- Uses mini style refills (RE-MINI)
- · Pen mechanism with locking refill device
- Overall size: 5-1/4"

Required Accessories & Materials

- 7mm mandrel
- 2-pc. 7mm bushing set (PKMULTI-BU)
- 7mm drill bit (DB7MM or DB7MMCT)
- 7mm barrel trimmer (PK-TRIM7)

Diagram A - Parts & Assembly



BLANK PREPARATION

Cut your blanks approximately 1/16" longer than the tube to allow for squaring with the barrel trimmer. Use a medium drill speed to **drill** the blank. Raise the bit from the blank every 1/4" to 1/2" to allow the chips to clear from the flutes of the drill bit. Don't force the drill bit; use an even pressure and let the bit do the work. After drilling the blanks, **sand** the exterior of the brass tubes to roughen their surface and use CA **glue** to glue the tubes inside the blanks. Sand or barrel trim to **square** the ends of the blanks.

TURNING THE PEN

Set up the mandrel as shown in Diagram C. **Turn** the pen blank to the larger bushing diameter at the ends (as shown in figure C). **Cut** a tenon on the barrel by making a mark 1/16" from the end and use your parting tool to cut the tenon down to the diameter of the bushing (as shown in figure D). **Sand** with abrasives and **finish** with your choice of polish.

ASSEMBLY

(Line up finished parts according to Diagram A)
To avoid damage to components when assembling, use a vise with covered jaws or one of WoodTurningz' pen presses.

- 1. Press the tip into the lower barrel. Press the pen mechanism, brass end first, into the opposite end of the barrel. Stop when 13/16" of chrome is showing outside the barrel (see Diagram A).
- Insert the mini refill into the refill guide as far as possible. Turn the pen mechanism counterclockwise to advance the inside threads upwards.
- 3. Insert the refill assembly and thread inside using the knurled end. 3/32" of the refill guide will show outside the chrome. Check the extension of the refill tip for exposure.
- 4. Press this assembly into the upper barrel.
- 5. The pen is ready to use by twisting the barrels to extract or retract the refill tip.
- 6. Twist off the stylus cap to expose the screwdriver bits.

Diagram B - Bushings

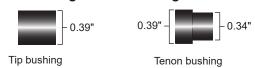


Diagram C - First Turn of the Pen

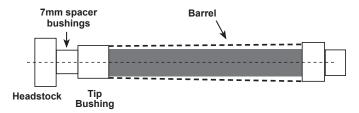


Diagram D - Second Turn of the Pen

