

## Bottle Opener Key Chain Kits Assembly Instructions

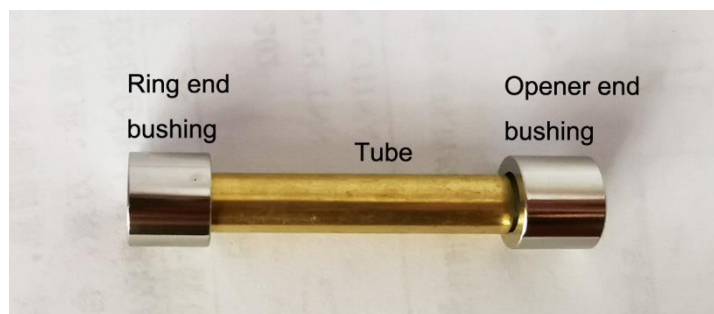
### REQUIRED ACCESSORIES:

- 7mm Pen Mandrel (MAND-92)
- 7mm drill bit BPD-7MM-PRC
- 2-piece Bushing Set BUSH-BOKC
- 7mm barrel trimmer PEN-MILL
- Glue (Thick CA or Epoxy)



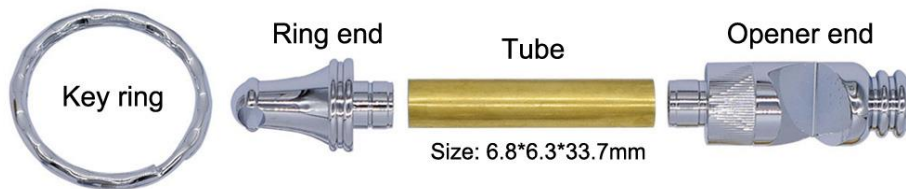
### PREPARING THE BLANK

- Cut a 16 – 25mm (5/8" to 1") square blank or larger, depending on your design, to the length of the tube (add 2mm (1/16") for squaring off).
- Drill a 7mm centre hole lengthwise through the blank.
- Spread glue over the tube, then insert it into the blank with a twisting motion to spread the glue evenly inside.
- Centre the tube lengthwise inside the blank.
- When the glue dries, use a barrel trimmer to take the wood down, flush to the brass tube.



### TURNING THE BLANK

- Mount the bushings and blanks according to the diagram above.
- 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 centre point into the mandrel dimple. Lock the tailstock in place.
- Hand tighten the quill adjustment on the tailstock to steady the mandrel. Do not over tighten, it could damage the mandrel shaft.
- When using a Mandrel Saver, there is no need for extra spacer bushings or the knurled nut. Slide the tailstock directly against the bushings and tighten until blank and bushings are secure.
- Using sharp tools, turn the blank down close to the bushing diameter. Turn the barrel straight or to a profile of your choice.
- Sand the blank down to be flush with the bushings, gradually increasing sandpaper grits.
- Finish the barrel using your choice of polish. Remember to allow sufficient time for the polish to cure—refer to the polish instructions.



## ASSEMBLY

- Line-up the parts according to the above picture.
- Press the opener end into the end of the blank.
- Press the ring end into the opposite end of the blank.
- Attach the key ring through the hole in the ring end of the piece.
- Your bottle opener key chain is ready to use.