

Safety Razor Kits Assembly Instructions

Supplies Needed

7mm Drill Bit
3/4" x 3/4" x 5" Blank
Pen Mandrel
Razor Bushings
Glue (Thick CA or Epoxy)
Sandpaper/Finish
Drill or Drill Press
Barrel Trimmer/Disc Sander
Eye and Ear Protection

Cutting and Drilling the Blank

1. Cut the blank 1/4" longer than the brass tube.
2. Using a drill press with the blank secured in a vise or clamp, drill a hole through the center of the blank stopping 1/8" short of the bit exiting the blank. Drill at 2,000–3,000 rpm backing the drill bit partially out of the hole every 1/2" to clear chips. When using larger bits or drilling plastics drill at 250–500 rpm.
3. Trim away a small amount of wood from the end of the blank to expose the hole. The blank should be slightly longer than the brass tube. This technique prevents cracking caused when the bit exits the blank.

Gluing the Brass Tube Into the Blank

1. Lightly scuff the exterior of the brass tube with 220 grit sand paper to prepare it for gluing.
2. For a fast bond, use thick cyanoacrylate adhesive (super glue) or 5 minute epoxy. For additional working time and more thorough bond, use expanding polyurethane. Apply a thin layer of glue to the tube and inside the wood blank. Insert the tube into the blank rotating it as you go to spread the glue evenly. Position the brass tube in the blank so that the wood extends beyond the tube on both ends to allow for trimming.

Trimming/Truing the Blank

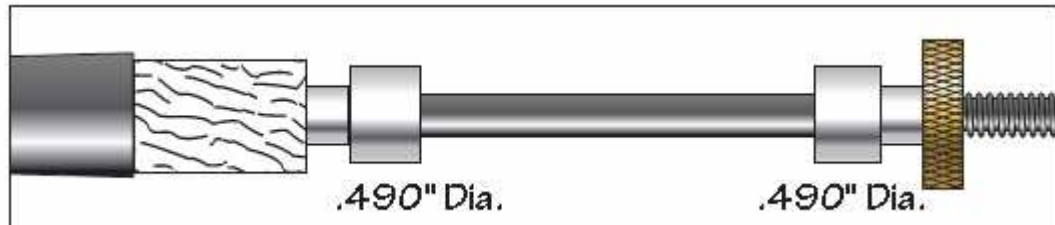
1. Square the ends of the wood blank with the tube using either a barrel trimmer or disc sander. This step is critical for the razor components to fit together properly. **Do Not** trim the brass tube as this may result in an improper fit when the razor is assembled.

(Optional Shortening of Razor Handle)

Shaving experts agree that a shorter razor handle gives you better control when shaving. If you would like to shorten the razor handle, it can be done easily.

1. Simply cut the tube to the desired length.
2. Grind the threaded rod to the same length as the brass tube.
3. Make sure the threaded rod still threads into the head coupler and end cap. If the rod does not thread correctly, use a file to remove any burrs.

Mandrel Setup and Turning



1. Assemble the bushings and blank on the razor mandrel as shown below.
2. Advance a 60° revolving cone center into the dimpled end of the mandrel and tighten using light pressure. **Do Not** over tighten the tailstock or mandrel nut as this may cause the mandrel to flex resulting in off-center barrel.
3. Turn the blank to the desired shape leaving the blank slightly larger than the bushings.
4. Sand the blank using progressively finer grits of sand paper, then apply the finish.

Assembly Figure 1

1. Thread the rod into the end cap.
2. Slide your blank over the threaded rod and thread the head coupler assembly onto the threaded rod.
3. Place a razor blade between the razor head and razor plate. Thread this assembly onto the head coupler to complete your razor.

Note: The Razor can be disassembled for cleaning and refinishing as needed by reversing the steps described above.

