BerealHardWoods....

18745 Sheldon Road Middleburg Heights, Ohio 44130

Toll Free 1-877-736-5487

Berea Hardwoods Co., Inc. Kit Instructions

Berea Hardwoods Seam Ripper (Berea #1110SR/HP)



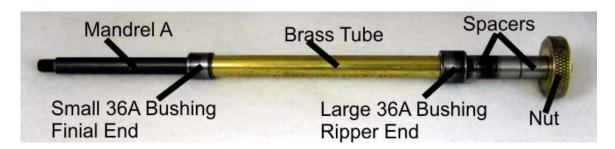
Needed: Mandrel A **Bushings 36A** Drill Letter "O" Wood Size 34" x 34"

Preparing the Material Blank

- 1. Only 1 material blank is required for this kit. Cut the material blank slightly longer than the brass tube.
- 2. Drill the blank through the center, lengthwise, with a letter "O" bit. (This is a long blank. Drill carefully to keep the hole centered.)
- 3. Polish the brass tube with sandpaper. This can be done by hand or on a power machine such as a belt sander. The purpose of the sanding is to clean off the oxidation and roughen the tube so that the glue will have a better adhesion surface.
- 4. Plug the ends of the tube with the material of your choice. Some use base wax, a dental product, or Play Dough, or even a slice of potato. Just push the ends of the tubes into a thin section of the material. This will form a plug to keep the glue from getting into the tube.
- 5. Clean the tube, after plugging, with acetone or alcohol on a rag.
- 6. Prepare your glue. We recommend two-part epoxy glue that is available in all hardware stores. Use a fast drying type, one hour or less. Be sure to mix it

- thoroughly. (A Post-it Note Pad makes an excellent mixing place. When you are finished just tear it off and throw it away.) Polyurethanes and thick flexible CA's can be used, but they each have their drawbacks.
- 7. Place some epoxy into the blank using a small piece of dowel or other small stick.
- 8. Roll the tube in the epoxy.
- 9. Insert the tube with a twisting motion until it is almost in the material blank. Then use the dowel to push it in until the end is flush with the blank. Use the stick to rake off the excess glue even with the blank and the tube.
- 10. Push the brass tube through the blank until the other end is flush with the blank. Then rake the glue flush with that end. Now push the tube back into the blank until the tube is equidistant between both ends of the blank.
- 11. Move it aside for 60 minutes until the epoxy has had time to reach its maximum strength.
- 12. If you are using CA glue, the wait is only about 60 seconds. When using polyurethane the wait will be about 24 hours.
- 13. When the glue has cured use a hobby knife to remove the plugs from the ends. It is also a good idea to clean the tube with a brass gun cleaning brush to remove any glue that may have gotten into the tubes.
- 14. Not cleaning out all glue from the tubes is the most common cause of kit failure. BE CERTAIN that all dried glue is removed from inside the tubes before proceeding.
- 15. Using a barrel trimmer of the proper size, face off the ends of the blanks until you can just see the bright brass end of the tube. STOP facing at this point. Your kit's proper operation is dependent on having the proper length tubes. This facing operation can also be done with the proper jig and a disk or belt sander.
- 16. Not having the proper tube length is the #2 cause of kit failure. Sanding, on a disk sander, using a jig to hold the tube square with the disk, is a more sure way of getting the proper length. It should be tried if you have any doubt as to your abilities to square the material with the barrel trimmer.
- 17. Another good method of squaring the ends of the blank is to turn the blank until it is just round. Using a miter gauge to maintain the blank perpendicular to the sanding disk, just touch the ends to the disk. Once the blanks are square and you can see the ends of the tubes brighten, then return the blanks to the mandrel and finish the turning until the desired contour is accomplished.

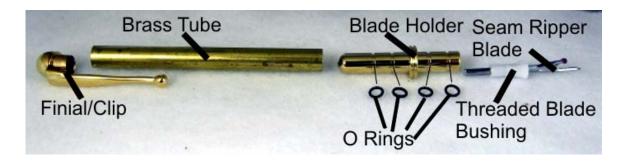
Turning the Material Blanks



1. Assemble the blank on the mandrel using the 36A bushings. The small bushing goes on the end to receive the finial and clip. The larger one goes on the end to receive the seam ripper blade.

- 2. Since there is only 1 blank to place on the mandrel, you will have to place spacers on the mandrel in order to tighten the tube for turning. You can drill a 7mm hole in a piece of wood for a spacer or 7mm bushings make excellent spacers.
- 3. Tighten the tailstock before tightening the blanks on the mandrel. This will center the mandrel first. Then tighten the nut that holds the blanks.
- 4. Turn the blank to the desired contour making sure that the area next to the bushing is turned to the size of the adjacent bushing.
- 5. I placed a small bead next to the seam ripper blade to give a little extra grip when in use. This is completely optional. Use your imagination.
- 6. After turning the blank, sand the surface in progressive steps until you get to 400 or 500 grit.
- 7. If a higher polish finish is desired continue sanding with Micro Mesh through 12000 grit.
- 8. Apply the finish of your choice and polish.
- 9. Remove the blanks from the mandrel.

Assemble the Kit



- 1. Press the finial/clip into the small end of the blank.
- 2. Now take a small piece of fine sandpaper and sand the INSIDE of the tube on the large end. This is to remove any burrs that may be there so the O rings do not hang or get damaged.
- 3. Slide one of the O rings over the end of the blade holder until it seats in the first
- 4. Now slide the second O ring over the same end as the first, but push it down until it seats into the second groove.
- 5. Repeat this procedure for the other end of the blade holder.
- 6. Slide the seam ripper blade, small end first, into the large end of the threaded blade bushing. This is the end without the threads.
- 7. Place this assembly into the open end of the blade holder and screw into place until the seam ripper blade is held securely.
- 8. Take a SMALL amount of oil and wipe it onto the O rings. Then wipe them off with a paper towel or rag. This will aid in inserting the O rings into the brass tube.
- 9. Insert the rounded end of the seam ripper assembly into the brass tube and your seam ripper is ready to use. Remove and insert the blade end into the tube for safety in storing.

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