

Duet Salt Shaker and Pepper Mill Combo

Kit Features

- Easy to Turn
- Minimal Parts--easy to assemble with EZ Assemble Mechanism
- Dual Function Salt Shaker and Pepper Grinder
- Overall Length: About 8" when made according to this instruction sheet
- Turn on a Pen Mandrel with Bushings

Required Accessories

- 7mm Pen Mandrel
- Drill Bits: #FB1-116 (1-1/6"), FB150(1-1/2")
- Bushing Set(2pc): #PKGRNDPSBU
- Live Tailstock or Mandrel Saver
- 2 part Epoxy
- Pen Blank Minimum Size: 2-1/2" x 2-1/2" x 4-3/4"L

DIAGRAM B / PREPARING THE BLANK:

- Cut blank to a length of 4-3/4". Note that a longer blank will have to have the bottom hole drilled deeper by the extra amount to maintain function. Smaller lengths are not advised.
- Mark the center on the ends by drawing line from corner to corner and marking where the lines cross.
- Drill a 1-1/2" hole lengthwise into one end of the blank to a depth of 1-3/8".
- Drill a 1-1/16" hole through the rest of the blank. Use the center mark left by the pilot point from drilling the larger hole to align the smaller one, this will help keep holes aligned.
- You can test fit the Grinder Assembly to be sure holes are sized and lined up properly.

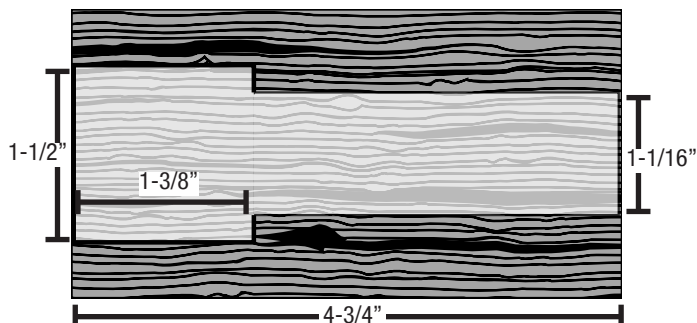


DIAGRAM C/ TURNING THE BLANK



Turning the Blank:

- Mount the bushings and blanks according to diagram B.
- When using Mandrel Saver, there is no need for extra spacer bushings or the knurled nut. Slide and lock tailstock directly against bushings and tighten quill until blank and bushings are secure.
- To use Knurled Nut Setup (right), add spacer bushings until past the threads on the end of the Mandrel Shaft.
- 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 center point into the Mandrel dimple.
- Lock Tailstock and hand tighten the quill adjustment with wheel to steady the mandrel. Do not over-tighten, it could damage mandrel shaft.
- 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. Allow sufficient time for the polish to cure—refer to polish manufacturer's instructions.

Knurled Nut Setup

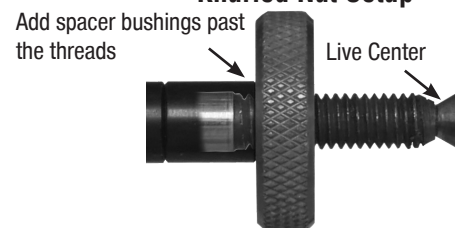


Diagram D / Bushing #PKGRNDPSBU

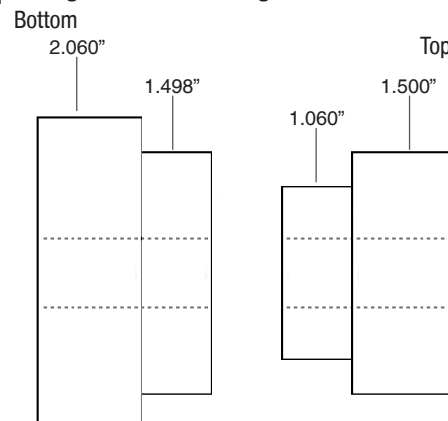
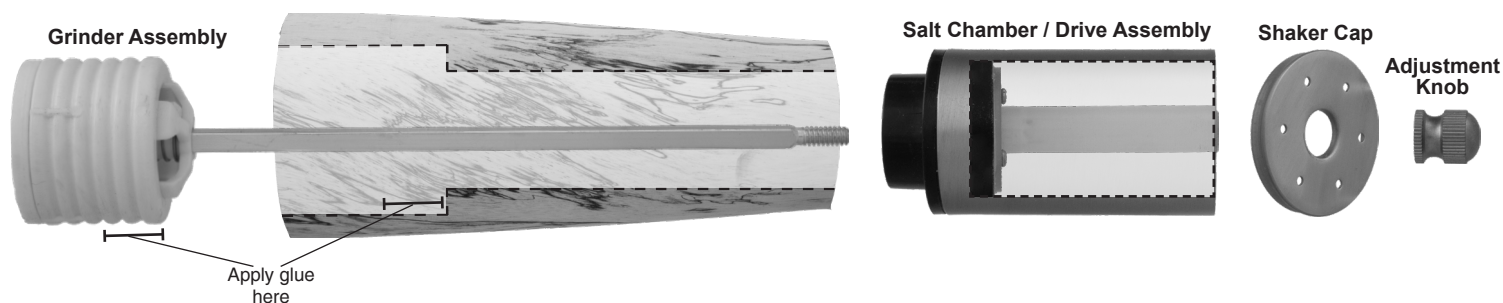


Diagram E / Parts Layout

**Assembly:**

- Mix a moderate amount of epoxy and apply it into the bottom hole around the top of the inside wall (Diagram E), extending down about 1/2 inch.
- Smooth a small amount of epoxy around the top outer side of the Grinder Assembly making sure some epoxy gets into the grooves.
- Push the Grinder Assembly into the bottom hole until it cannot go in any further and allow epoxy to fully cure.
- Slide Salt Chamber / Drive Assembly onto the Grinder Shaft and into the hole in the blank.
- Place Shaker Cap onto Salt Chamber opening.
- Thread Adjustment Knob onto end of the Grinder Shaft.

To Use:

- To fill Salt Chamber, unscrew Adjustment Knob and remove Shaker Cap. Try to avoid letting salt get into center hole and falling into the Grinder Mechanism.
- To fill with peppercorns, unthread Knob and pull off Salt Chamber. Avoid filling too much as peppercorns can get stuck if over-crowded.
- Once filled and re-assembled, Pepper can be ground by twisting the Drive Assembly back and forth. Grind can be adjusted from coarse to fine by turning the Adjustment Knob.

