#KSNECXX

PSI Woodworking Products

KALEIDOSCOPE NECKLACE KIT

Kit Features:

- Choice of two configurations
- Makes a stylish fashion accessory
- Easy to Turn with Straight Tubes
- Minimal Parts--easy to assemble
- Available in multiple finishes
- Overall Length: 2-5/16" 2-1/2"

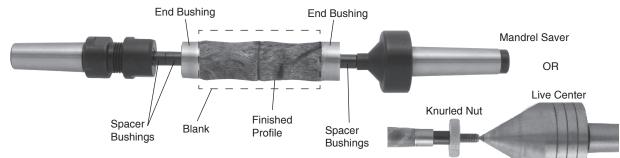
Required Accessories:

- 7mm Pen Mandrel
- Drill Bit: #PK-125MMSG for plastic or #PKPLI-DB for wood
- Bushing Set(2pc): #KSNECBU
- · Barrel Trimming set: PKTRIM7 with 12.5mm sleeve from
- #PKMAJJRBTS or #PKTRIMSET.
- Live Tailstock or Mandrel Saver
- 2 part Epoxy or Thick CA (Cyanoacrylate) Glue
- Standard 3/4" clear adhesive tape
- Pen Blank Minimum Size: 3/4" x 3/4" x 1-3/8"L

Preparing the Blank:

- Cut blank to the to the length of the tube, adding 1/16" for squaring off.
- Drill 12.5mm hole lengthwise through the blank.
- Spread glue over tube, insert the tube into the blank with a twisting motion to spread the glue evenly inside.
- Center the tube lengthwise inside the blank.
- When the glue is dry, square the ends of the blanks, making sure the trimmed ends are 90° to the tube. Use a 7mm barrel trimmer with 12.5mm sleeve, or a pen blank squaring jig with a 12.5mm sleeve on a disc sander. Take the excess material down flush to the ends of the tubes. Do not trim past the end of the tube since this may interfere with the operation of the mechanism and assembly. Use a barrel trimmer to clean the inside of the tube.

DIAGRAM B / TURNING THE BLANKS



Turning the Blank

- Mount the bushings and blanks according to diagram B.
- 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.
- Hand tighten the quill adjustment on the tailstock to steady the mandrel. Do not over tighten, it could damage the mandrel shaft.
- When using Mandrel Saver, there is no need for extra spacer bushings or the knurled nut. Slide tailstock directly against 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. Allow Sufficient time for the polish to cure—refer to polish manufacturer's instructions.

Diagram C / Bushings #KSNECBU

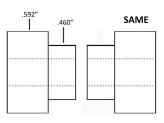


Fig A1 **DIAGRAM A / PARTS LAYOUT** Gem Chamber Viewer Assembly Gem Cover Gem Chamber Viewing Cap Necklace (Pre Assembled) Ring Gems Coupler Tube - 1.30" (1-5/16") Coupler Image Cap 3 Mirrors 36" String Retainer Teleidoscope Ball Lens Fig A2 Teleidoscope Viewer

- Assembly
- Thread the Image Cap onto one of the Couplers. This will help prevent damage to threads.
- Press Coupler with Image Cap into either end of finished Barrel.
- Thread Viewing Cap onto the second Coupler.
- Slide Coupler with Viewing Cap into Necklace Ring. It should slide through effortlessly.
- Press Viewing Cap and Coupler into Barrel. Leave a slight gap Necklace Ring should be able to spin.
- Unthread the Image Cap from Coupler.
- Mark off a piece of clear adhesive tape no longer than 1"
- Lay mirrors side by side with approx. 1/8" space in between the sides of the mirrors
- · Lay tape across the tops of one end of the three mirrors. Putting tape on only one end will help stabilize the
- mirrors as they are inserted.
- You should be able to fold the mirrors (with tape on the outside) to form a triangular prism adjust tape if necessary.
- Fold the mirrors and slide the end without tape into the open coupler. You may have to gently rock mirrors so that they slide. Once The mirrors are mostly in, remove the tape and slide mirrors the rest of the way.
- Assemble Image Cap (See text Below)
- Tie string into Necklace Ring with preferred knot (slip knot or similar loop knot recommended)

Image Cap Assembly (configuration can be switched as desired)

Kaleidoscope (with Gems - Fig A1)

- Insert Gem Chamber, closed side first, into Image Cap
- Pour Gems into Gem Chamber
- Without turning Image Cap over, thread open Coupler into Image Cap.

Teleidoscope (No Gems - Fig A2)

- Insert Ball Lens into Image Cap, rounded side first.
- Insert Retainer, narrow side first, into Image Cap
- Thread Image Cap onto open Coupler.

