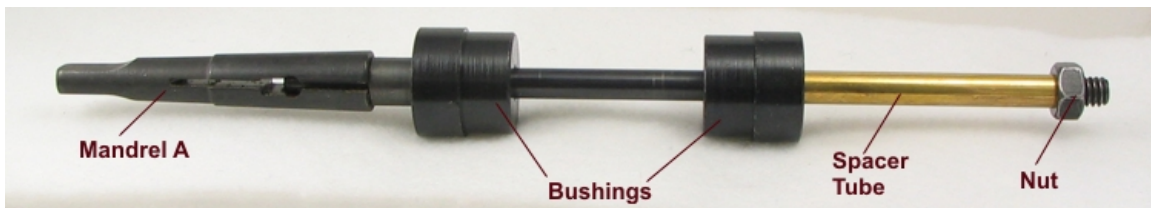


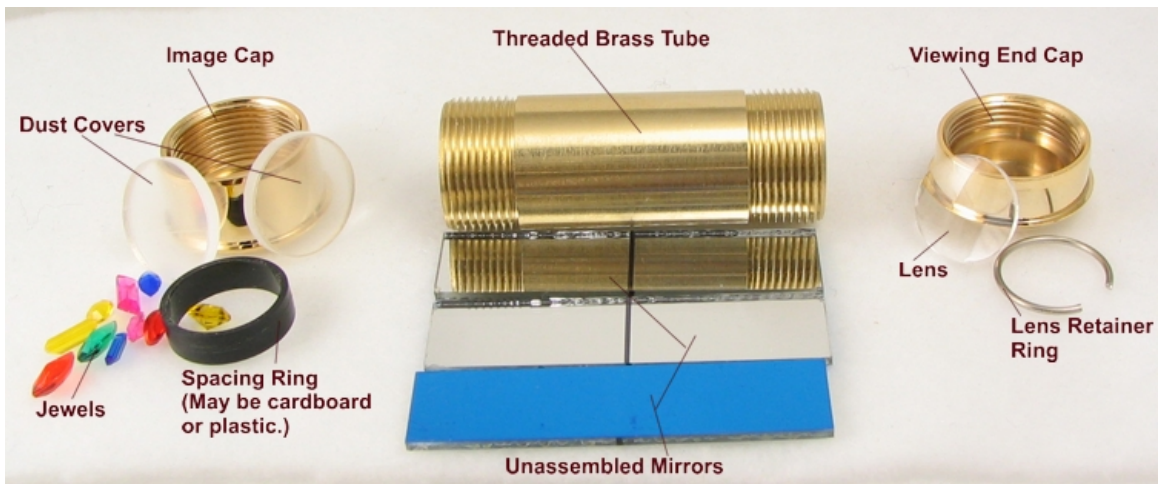


## Turning the Blank



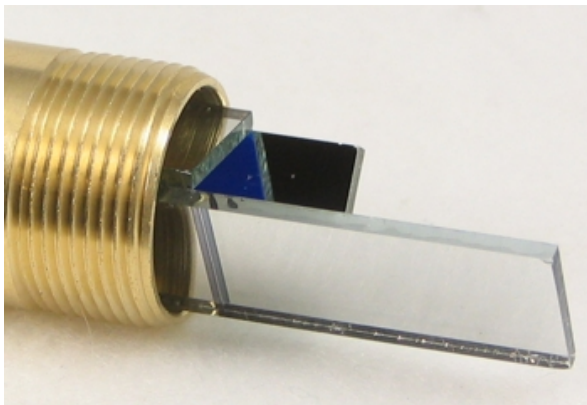
1. Mount the blank on the 2 bushings, slide them onto the mandrel, add a spacer tube, ( a 7mm tube makes a good spacer) and then add the nut.
2. Tighten the tailstock before tightening the blanks on the mandrel. This will center the mandrel first. Then tighten the nut that holds the blank.
3. Turn the blank to the desired contour making sure that the area next to the bushing is turned to the size of the adjacent bushing. You do not have to turn your blank to the shape of an egg. Any shape you desire will be acceptable.
4. After turning the blank, sand the surface in progressive steps until you get to 400 or 500 grit.
5. If a higher polish finish is desired continue sanding with Micro Mesh through 12000 grit.
6. Apply the finish of your choice and polish.
7. Remove the blank from the mandrel.

## Assembling the Kaleidoscope Egg

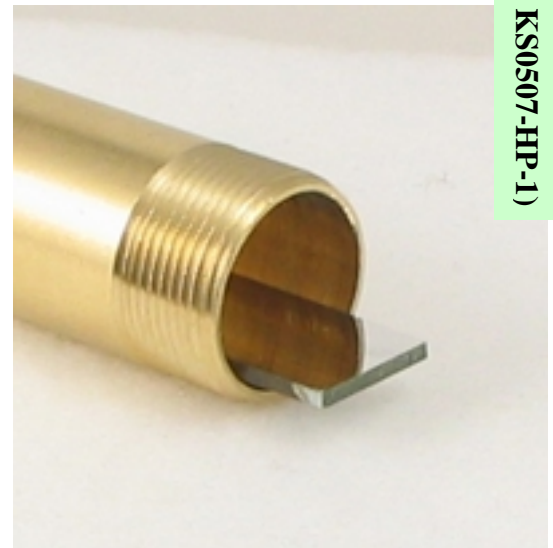


1. The first thing you want to do is to assemble the Viewing End Cap.
2. Place the lens into the viewing end cap with the curved side next to the small viewing hole.
3. Next, using a pencil eraser to hold the lens retainer in place, use a small blunt object, like a small dowel, to push the spring retainer into the provided groove inside the viewing end cap.
4. Lay this assembly aside for a moment.
5. Next you will assemble the Image Cap.

6. Place the end cap on a flat surface.
7. Peel the protective film from one of the dust covers and place it flat inside the Image Cap.
8. Next place the Spacing Ring inside the cap on top of the Dust Cover. This spacing ring may be made from plastic or cardboard. You may have to press firmly to seat this ring tightly against the dust cover.
9. Now, add the jewels as desired. The jewels should occupy no more than  $\frac{1}{2}$  of the volume of the space inside the Spacing Ring to allow movement as the kaleidoscope is rotated. Placing too many jewels into the cavity will make them jam and prevent a changing pattern. A variety of jewels are provided so that you can customize the color and shape of your patterns.
10. Remove the film from the second Dust Cover and place it on top of the Spacing Ring. This will completely enclose the jewels and prevent them from falling out.
11. Lay this assembly aside for a moment.
12. Now you will assemble the mirror assembly.
13. The 3 mirrors are packed inside the brass tube. Remove them very carefully as they have extremely sharp edges and must be handled in a fashion that does not result in cutting your fingers.
14. Notice that one side of the mirrors will have either a black line or an "X" drawn on them. The other side will have a protective film on it. What you are going to do is to form a triangle out of the mirrors that will fit into the brass tube.



15. Remove the protective covering from one of the mirrors.
16. Place it, with the marked side down, on the bottom of the tube.



17. Now place a second mirror, with the marked side out, inside the tube to form a "V".





