

## Basic Assembly Instructions for the Multi-Color Jigsaw Pen Inlay Kit (Sierra Style Pen)

We're going to start by laying out all of the pieces. Each piece is numbered so you can use the puzzle diagram on this sheet to organize them. Wrap a piece of parchment or wax paper around the brass tube that came with the pen kit you're using.

Start by putting the first column of pieces together.

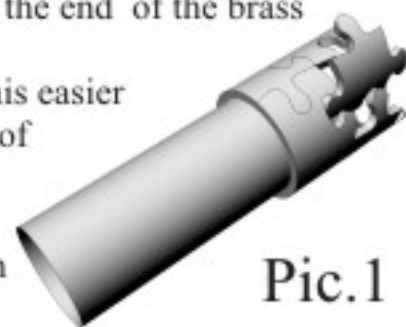
That's #1, #6, #11

and #16 from the diagram. Don't use any glue at this time. We'll be securing everything with Scotch tape and elastic bands.



Because of the curvature of the pieces, several of them will have to be put together from behind. The easiest way to do this is to slide the assembly partially off the end of the brass tube and position the next piece from underneath (see pic 1.)

Once in position, slide the tube back through the assembly. To make this easier (especially when working on column 2, 3, 4, or 5), take a small piece of Scotch tape to secure the pieces together before sliding them toward the end of the tube.



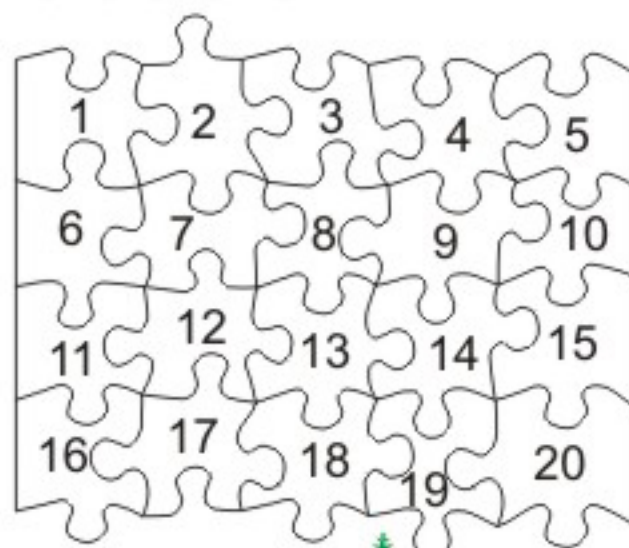
Pic.1

When you complete each group of 4 pieces, wrap a piece of Scotch tape around them. Once all the pieces have been successfully put together start removing the tape and replacing it with small elastic bands. Wrap one elastic band around each column of 4 pieces. When finished the barrel will have 5 elastic bands wrapped around it.

We'll have to clamp the ends together to eliminate the gaps going from left to right. Use 2 elastic bands for this. Inspect the assembly to make sure everything is properly aligned.

We're now going to apply thin CA glue to lock the assembly together. A small drop in the corners where 4 pieces touch is all that is needed for now.

Once the glue has set up we can remove the elastic bands and slide out the brass tubes and paper. Now we can apply CA glue to all of the seams in the puzzle barrels. Once this is cured we can glue in the brass tubes. I prefer to use 2-part epoxy to glue the tubes into the barrels but you can use whatever you're comfortable with as long as it isn't Polyurethane glue. The expansion when Polyurethane glue cures causes problems with the seams of the puzzle. Once the tube has set up, carefully sand and square-up the ends (don't use a barrel trimmer) and put on the lathe for final turning, sanding and finishing.



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