

LAMP HOUSING FOR ARCHITECT'S ADJUSTABLE TABLE LAMP

I wanted an option for electrifying the Architect's Adjustable Table Lamp.

I found a candelabra base adapter sized to clip into a one inch hole (nominal - my Inkscape specified hole needed to be 13mm, 12.7mm wasn't quite large enough). The clip has notches that help secure it in one eighth inch material. The adapter that you find may differ.

My first attempt just glued a disk to the arm of the lamp. Functional but not exciting.

Then, while thinking about how to add a back housing to the result the idea of a full lamp housing came to me.

So I printed and assembled another lamp. Seemed easier than grinding the disk off the first one.

The result is the lamp housing shown here.

After printing (the adapter ring is cut from one eighth inch material, I used 5mm material for the rest), assemble as follows.

1. Stack and glue the six rings together. I used the inside corner of an open box to align the rings. They need to be well aligned or the desired press fit becomes an impossible fit. (My first version had these rings slightly misaligned. Sanding the stack created a slip fit, not a bad thing if you're going to glue the housing in place but that was not my intent.)
2. Stack and glue the three split rings together. Alignment is not so critical here but the guide shown helps align the notches. The guide is made from scraps from the print job. (Some of those scraps are intended to be used to assemble guides).
3. Glue the stack of rings and the stack of split rings to opposite sides of the adapter ring. A guide, such as the one shown, helps to align them.
4. The cap for the rear housing is optional. This one is made from the cutout from printing the lamp and a cutout from printing the housing. It's a little loose.

NOTE: I waxed the assembly guides and the box used as one to reduce accidental gluing. It's still a good idea to separate the glue-up from the guide as soon as you can. (I used a furniture grade paste wax.)