

# Setting up "Air Assist"

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I have never worked with a laser before I ordered a full DIY kit from George at Endurancelasers.com. My kit included the 10W+ laser with "air assist", an Eleksmaker frame (knock off) and Mana SE board (knock off). It took 19 days to reach the US from Russia. When I opened the kit, I found many strange items but couldn't wait to figure out what everything was and what everything did!



Figure 1: What's in the kit

This paper will walk you through the "Air Assist" that George ships with the kits. The kit includes an aquarium pump and a medical IV kit (Figure 1). I was pretty surprised to see that IV in my box and wasn't sure what to do with it! The pump is a Hailea ACO-318. Find out more about the specs here: <http://www.hailea.com/e-hailea/product3/ACO-318.htm>

I had to search around a bit to find any information on how to put this all together. The laser had an outlet tube attached to it, but I needed to figure out how to get the air from the pump to the attached outlet. Also, I had to figure out what I was supposed to do with the medical IV kit! Hopefully, this tutorial will help another person.

**Step 1:** Connect the brass adapter to the air pump. It just screws in.

**Step 2:** Toss aside the 6 outlet adapter and the tube that connects to it. You won't need those.

**Step 3:** Carefully remove the needle from the IV, and set aside. You will not need that, either. While your at it, get rid of the "roll clamp" and the "drip chamber" on the IV tube.

**Step 4:** Pull (hard) on the white adapter to remove. In my photos, you will see that I pulled the other side out. That will work, too. You need the tan, flexible rubber part.

**Step 5:** You'll have to roll and squeeze the flexible part onto the brass adapter (see Figure 2)

**Step 6:** Insert the white adapter, then attach the IV hose to the white adapter (see Figure 3)

**Step 7:** Attach the hose to the outlet on the laser (Figure 4).

**Step 8:** adjust the outlet nozzle to blow air as close to the laser dot on your material as possible (Figure 5).

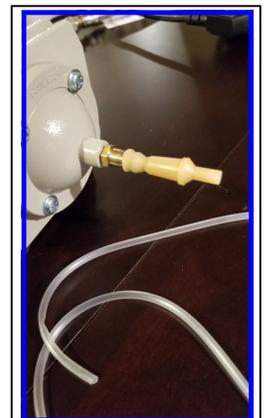


Figure 2: Squeeze this part over the brass adapter



Figure 3: Attach IV hose to white adapter



Figure 4: Attach hose from pump



Figure 5: Adjust air outlet

Congratulations! Your "Air Assist" is ready to go!