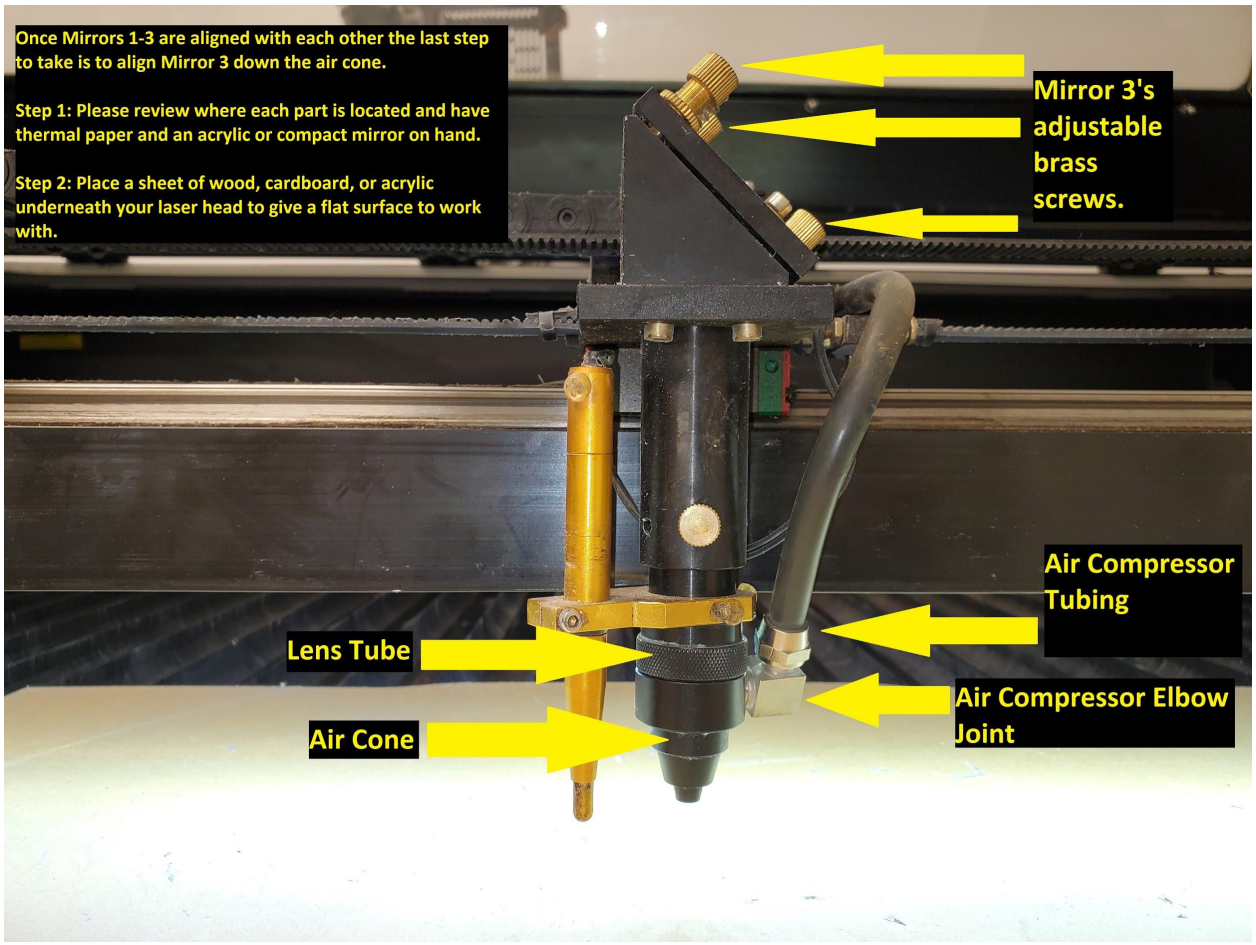
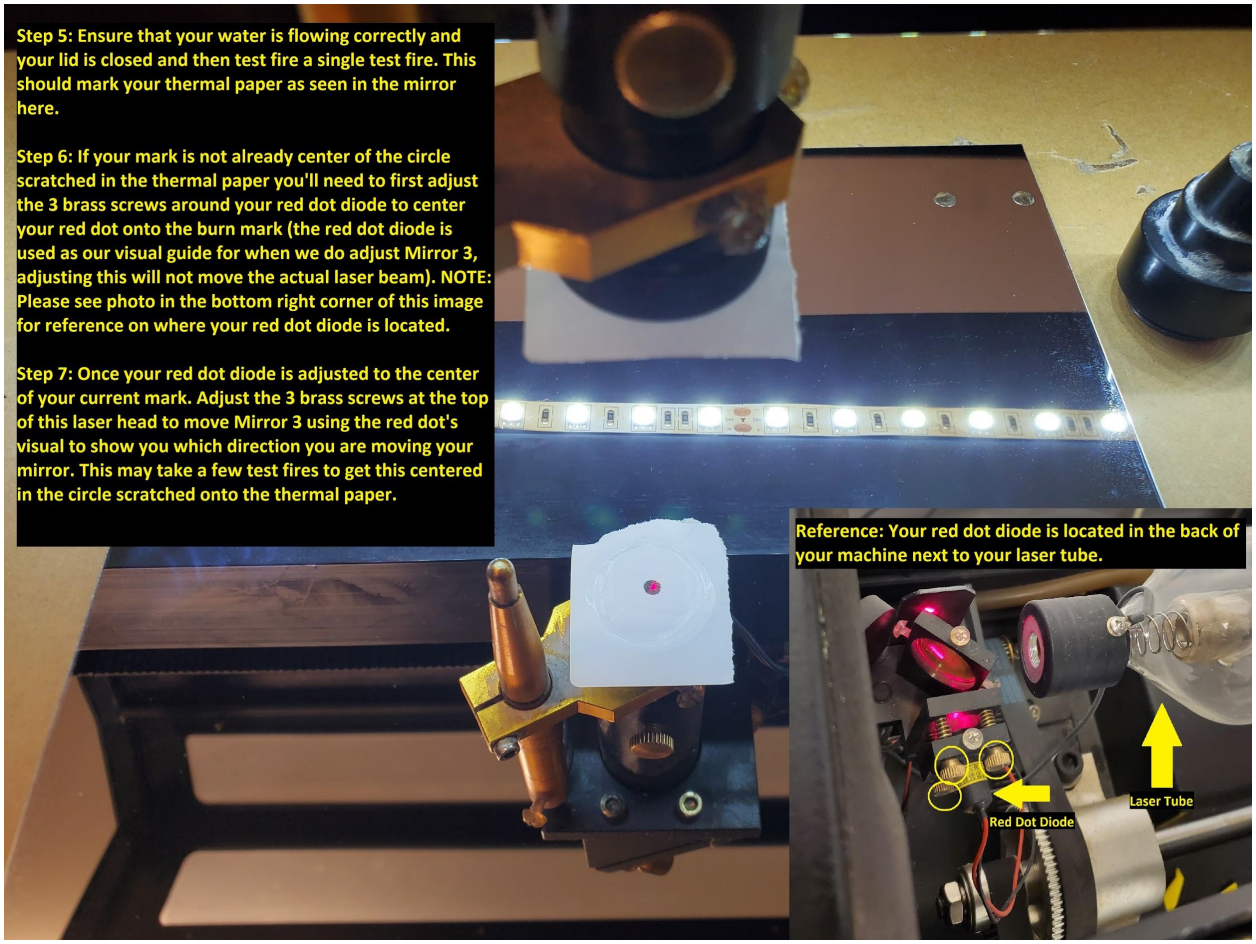
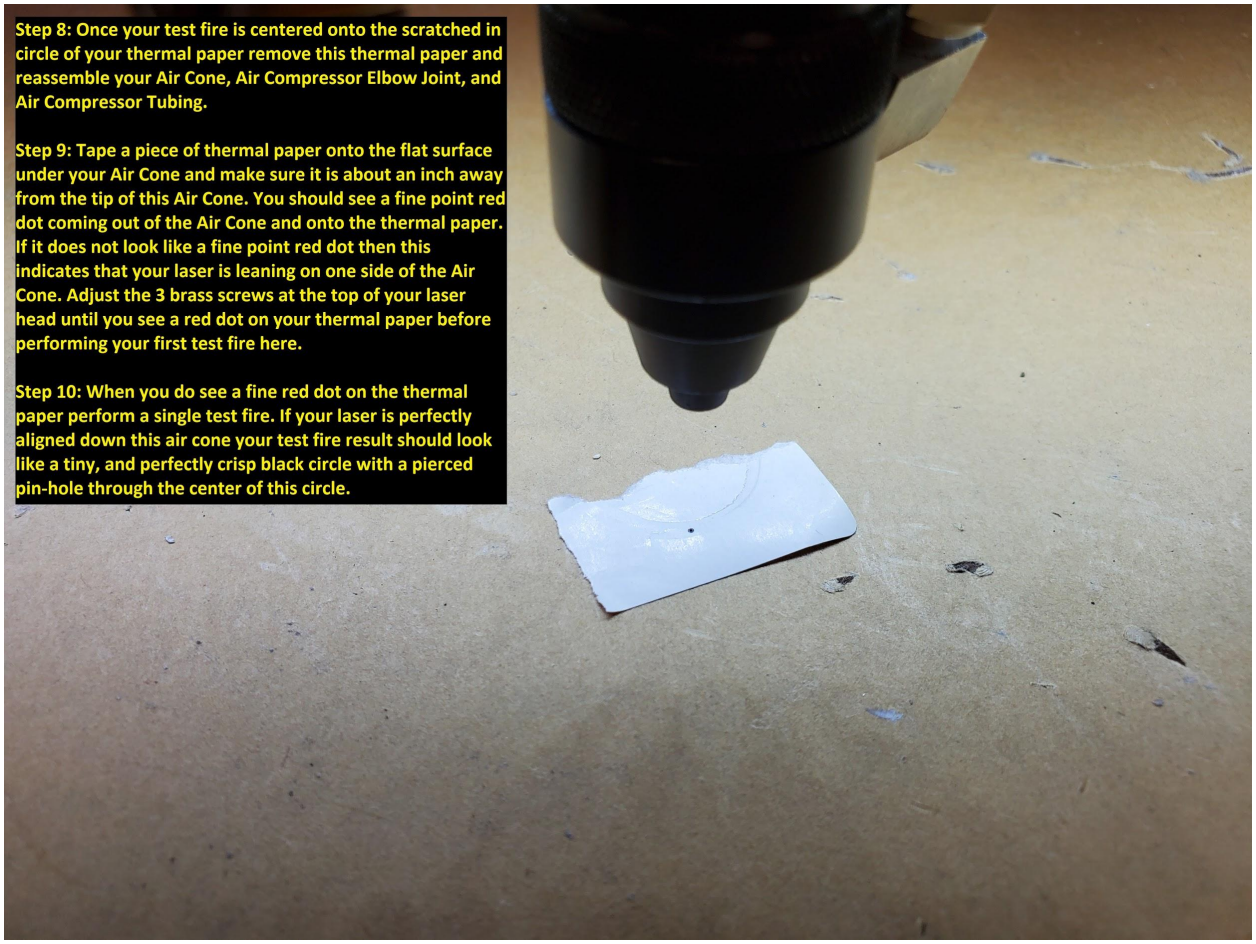
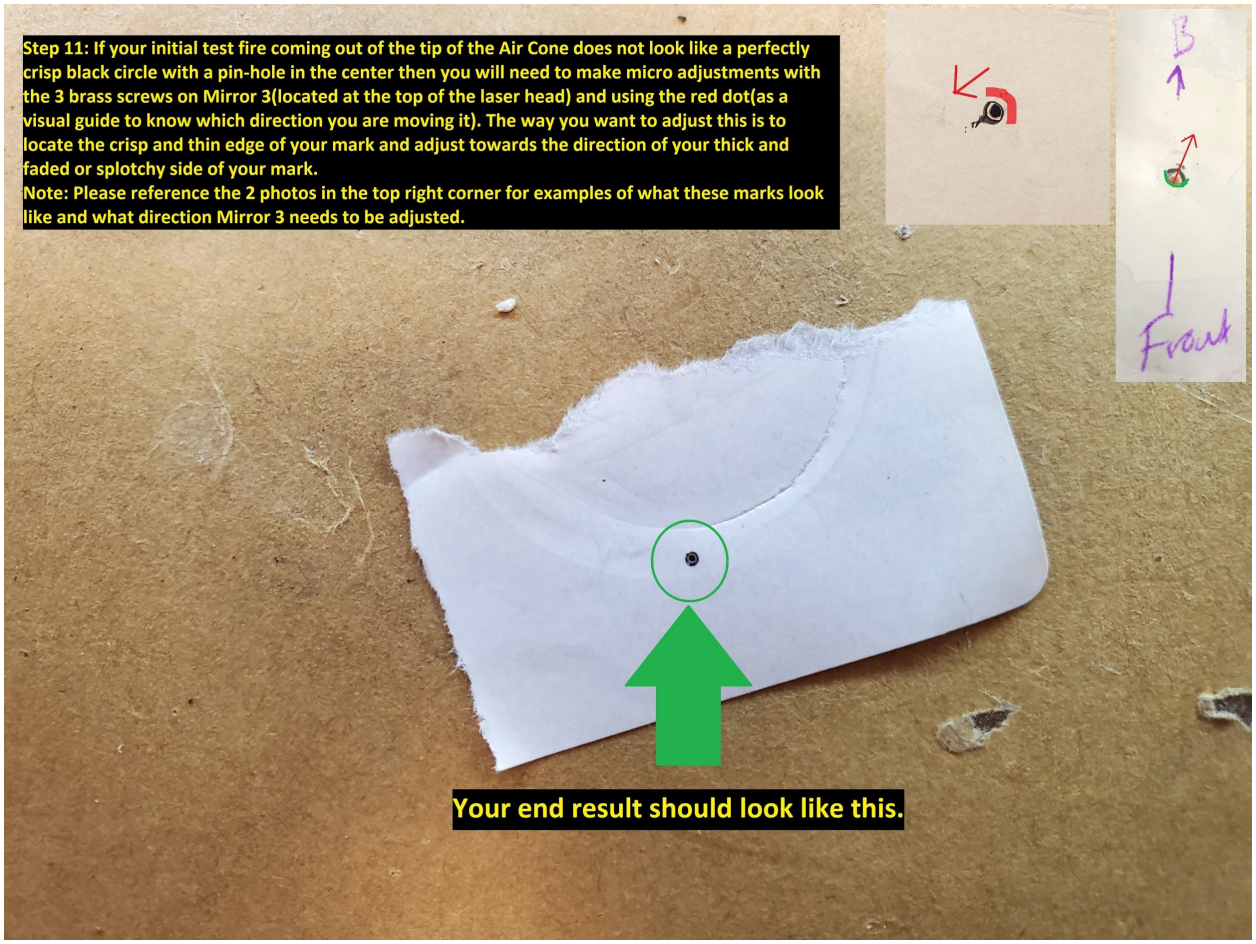
Pro Series - Aligning Mirror 3 Down the Air Cone




Step 3: Unscrew the Air Compressor Tubing, Air Compressor Elbow Joint, and Air Cone. This will expose the lens end of your Lens Tube.
Step 4: Tape your thermal paper(thermal side facing down) under the end of the lens tube and place your mirror directly under it for visibility.


Step 5: Ensure that your water is flowing correctly and your lid is closed and then test fire a single test fire. This should mark your thermal paper as seen in the mirror here.
Step 6: If your mark is not already center of the circle scratched in the thermal paper you'll need to first adjust the 3 brass screws around your red dot diode to center your red dot onto the burn mark (the red dot diode is used as our visual guide for when we do adjust Mirror 3, adjusting this will not move the actual laser beam). NOTE: Please see photo in the bottom right corner of this image for reference on where your red dot diode is located.
Step 7: Once your red dot diode is adjusted to the center of your current mark. Adjust the 3 brass screws at the top of this laser head to move Mirror 3 using the red dot's visual to show you which direction you are moving your mirror. This may take a few test fires to get this centered in the circle scratched onto the thermal paper.
Reference: Your red dot diode is located in the back of your machine next to your laser tube.
Laser Tube
Red Dot Diode


Step 8: Once your test fire is centered onto the scratched in circle of your thermal paper remove this thermal paper and reassemble your Air Cone, Air Compressor Elbow Joint, and Air Compressor Tubing.
Step 9: Tape a piece of thermal paper onto the flat surface under your Air Cone and make sure it is about an inch away from the tip of this Air Cone. You should see a fine point red dot coming out of the Air Cone and onto the thermal paper. If it does not look like a fine point red dot then this indicates that your laser is leaning on one side of the Air Cone. Adjust the 3 brass screws at the top of your laser head until you see a red dot on your thermal paper before performing your first test fire here.
Step 10: When you do see a fine red dot on the thermal paper perform a single test fire. If your laser is perfectly aligned down this air cone your test fire result should look like a tiny, and perfectly crisp black circle with a pierced pin-hole through the center of this circle.


Step 11: If your initial test fire coming out of the tip of the Air Cone does not look like a perfectly crisp black circle with a pin-hole in the center then you will need to make micro adjustments with the 3 brass screws on Mirror 3(located at the top of the laser head) and using the red dot(as a visual guide to know which direction you are moving it). The way you want to adjust this is to locate the crisp and thin edge of your mark and adjust towards the direction of your thick and faded or splotchy side of your mark.
Note: Please reference the 2 photos in the top right corner for examples of what these marks look like and what direction Mirror 3 needs to be adjusted.
B
Front
Your end result should look like this.