

Troubleshooting Laser | C02 Air Assist

Problem

When cutting their materials, users can often see large flames about 1-2" tall under the laser and immediately extinguished. These flames are due to an issue with the C02 Air assist system

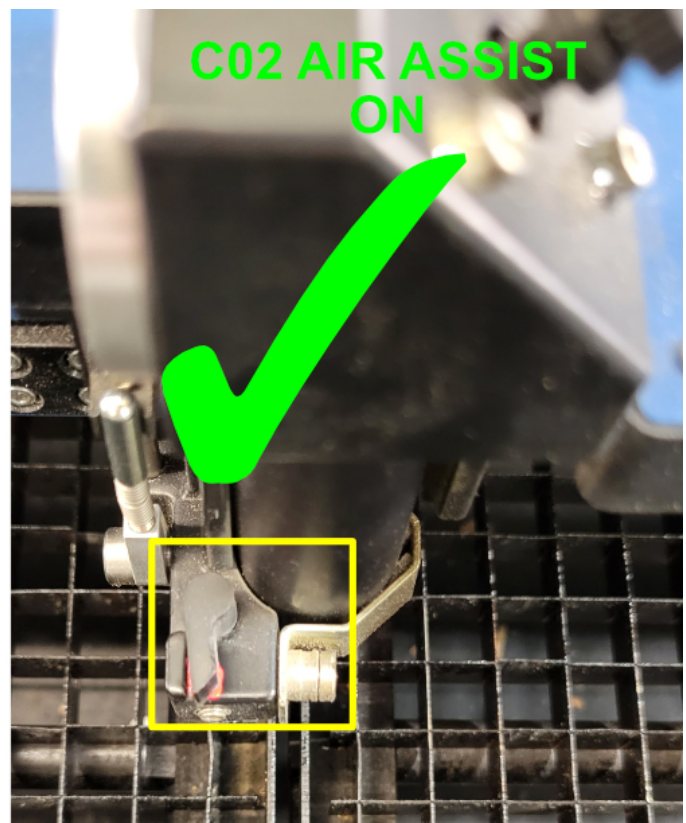
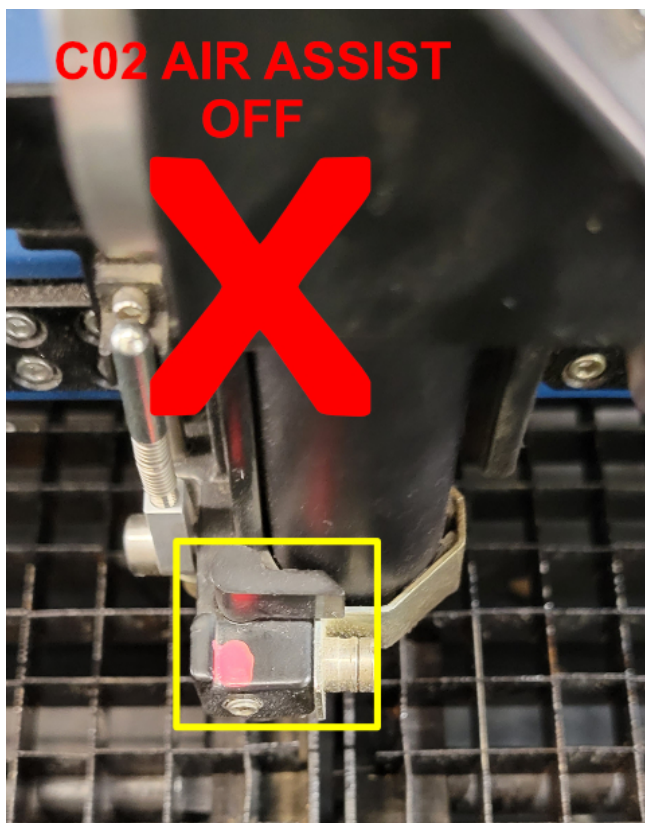
Issue 1: Switch/valve is not open/on

Issue 2: Elbow is not directed towards laser pathway

Solution

Ensure the C02 Air assist switch on the carriage is rotated towards you. (see image)

AIR ASSIST SHOULD ALWAYS BE ON



Air Assist



The Air Assist feature on both the Fusion Pro & Fusion Edge Laser is used to keep combustible gases away from the cutting surface and to reduce flare-ups of more flammable materials as you cut through it, such as wood and acrylic.

The Air Assist directs a constant stream of compressed air across the material surface at the point of burn removing the heat and combustible gases from the work surface. The constant air stream helps reduce charring and scorching associated with materials, such as wood, rubber, and acrylic. The Fusion Pro systems also include an air compressor within the machine.

The Fusion Pro 48 systems have two types of Air Assist:

- **Cone:** This feature directs air through the cone shaped part of the assembly, and permanently remains on while running any job to help keep the lenses clean.
- **Sweep:** This feature directs air through the Air Assist tube to the side of the cone. This feature has the option to be turned on or off by the switch directly on top of it. When the switch is pointing outward toward the front of the machine, the Sweep Air Assist is **ON**. When it is pointing toward the right side of the machine and adjacent to the lens tube, the Sweep Air Assist is **OFF**.

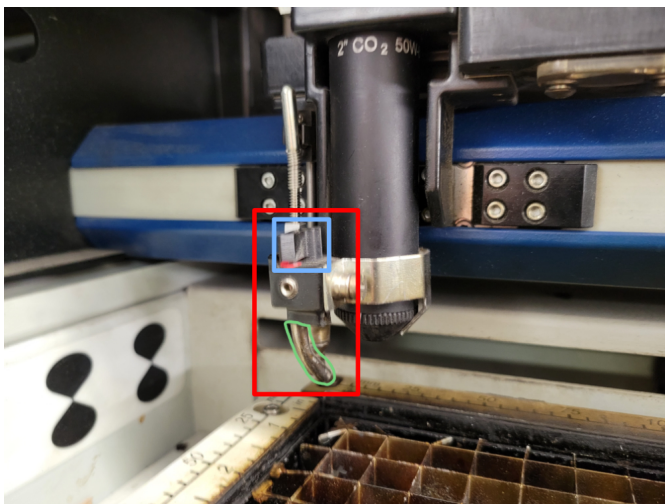


C02 Elbow direction

Verify Elbow is in place and pointing towards laser path. (see image)

Blue highlight = Air assist switch, toggle on/off (switch should be covering the red paint mark to indicate it is actively open)

Green highlight = Air assist elbow, directs the C02 towards the laser/flame to dissipate heat and fumes



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