



## Brief Installation Guide for Auxiliary Equipment of a 3-Chuck Laser Cutting Machine

HUY: 714-325-8762

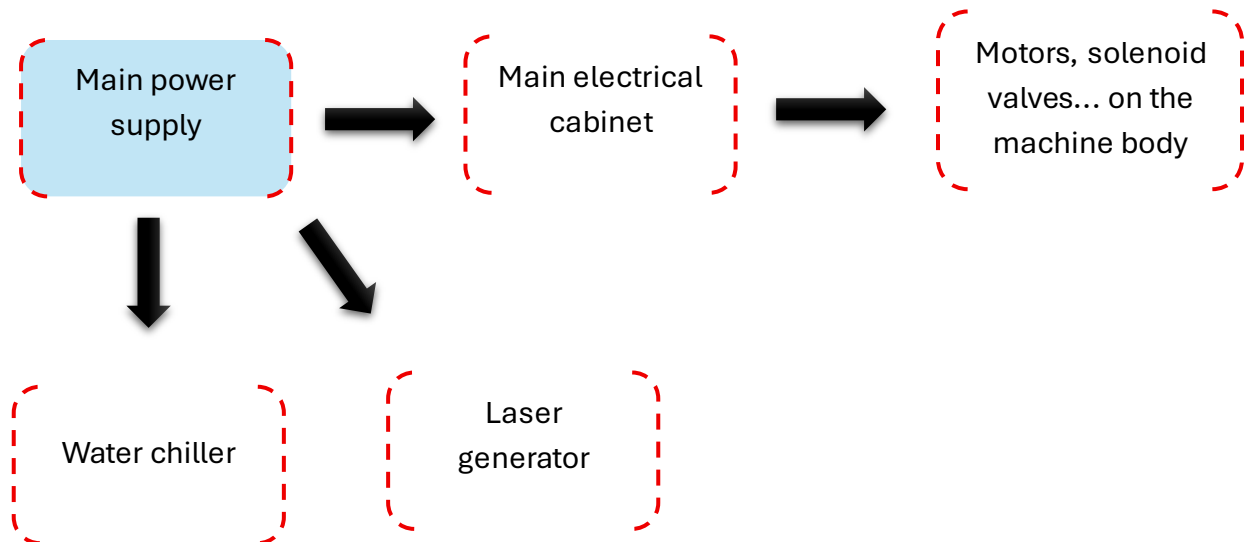
NGOC: 714-728-9287

THANH: 714-366-9957

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## 1. Machine electrical wiring

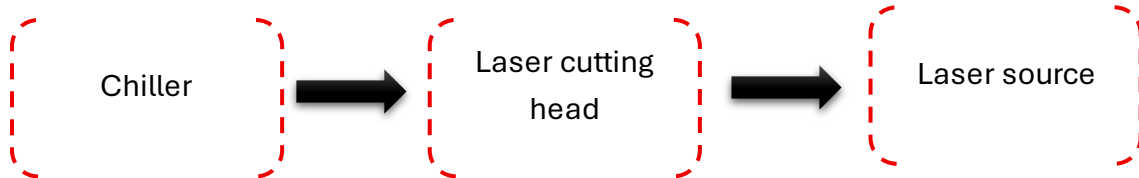


### Before powering on the system, you need to:

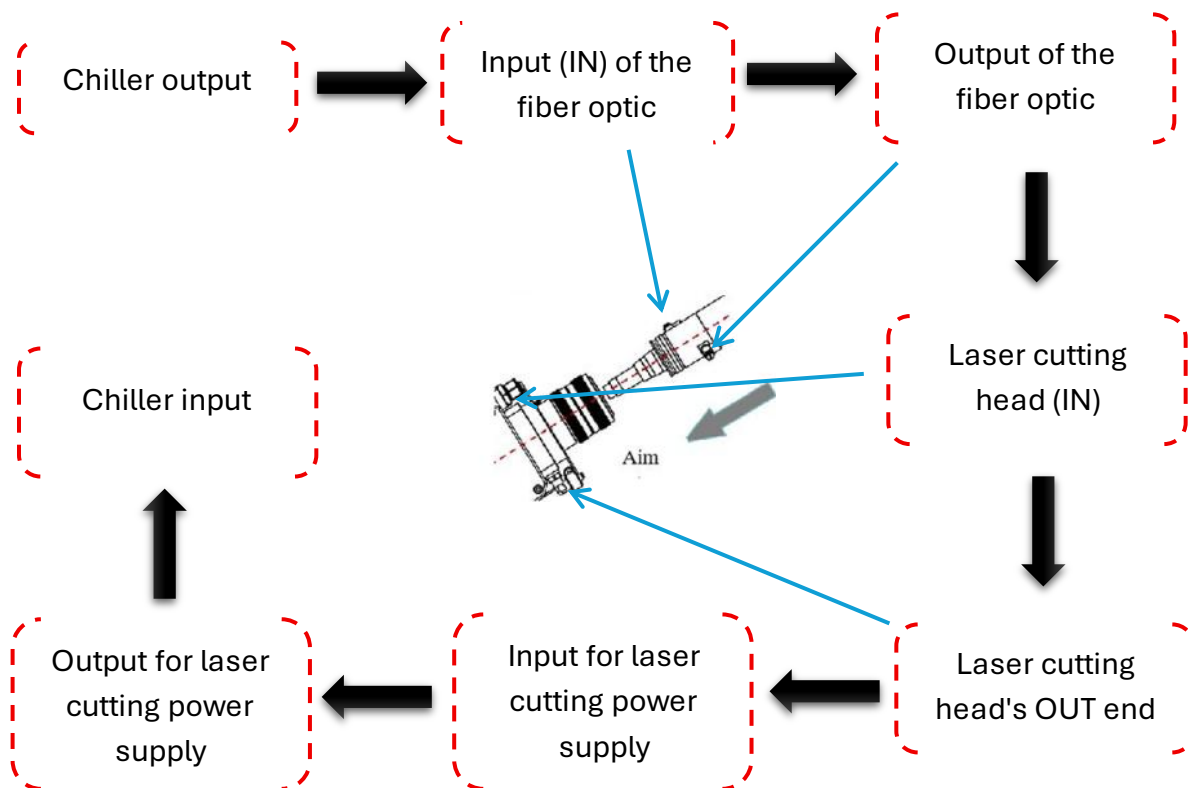
1. Check and retighten all screws inside the electrical cabinet.
2. Check for short circuits at the power input (L-L, L-N, L-PE).
3. Check for phase-to-ground faults.
4. Check for short circuits in the 24V DC power supply.
5. Inspect the wiring system for any crushed or broken cables.
6. Check whether the input voltage has any voltage drop or incorrect power supply

## 2. Connect the chiller pipes.

**Connect the coolant lines according to the diagram below:**



**Below is a detailed diagram:**



\* The image above is for illustrative purposes only.

## 3. Supply air to the system.

### 3.1 Oxygen

The gas must have a purity of 99.99%.

Connect the gas to the pre-marked oxygen (O<sub>2</sub>) line. If there are no markings, locate the line connected to the pressure regulator (ITV); that is the oxygen line.

### 3.2 Nitrogen

The gas must have a purity of 99.99%.

Connect when entering the largest pipe or the pipe marked with nitrogen (N<sub>2</sub>).

### 3.3 Air

The air must be dry, free of moisture and oil.

Typically connected to the N<sub>2</sub> gas pipeline.

#### **Note:**

After cutting with compressed air, you must check and drain the water from the air filter tank attached to the machine body.

Do not connect N<sub>2</sub>, O<sub>2</sub>, and Air gases simultaneously.