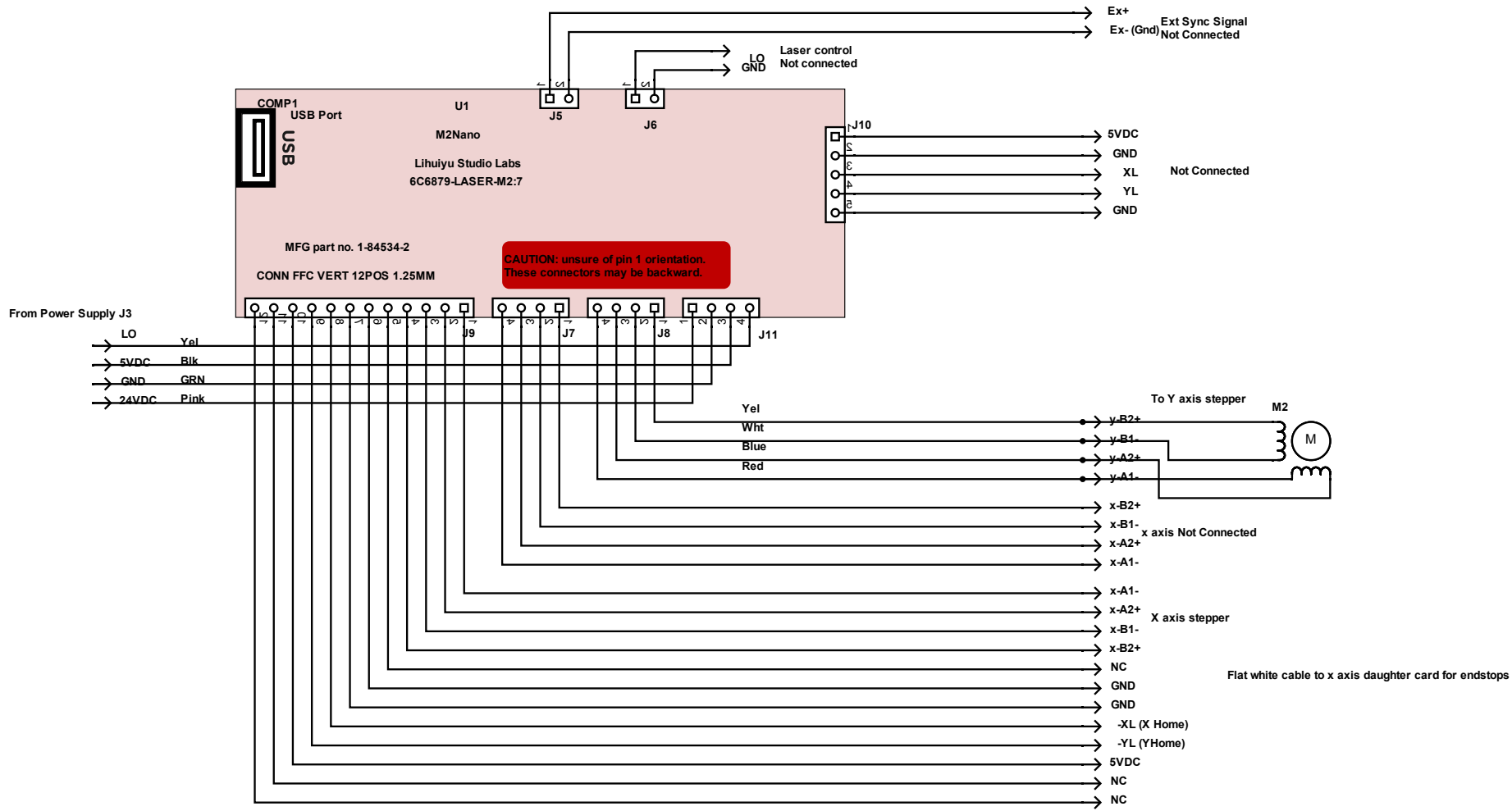
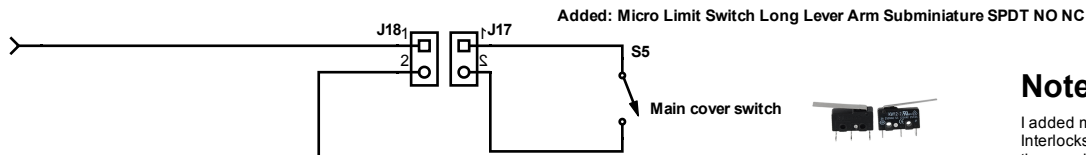


**Warning:**  
 The connector J #'s are for drawing reference only.  
 They are not the J# of the actual machine

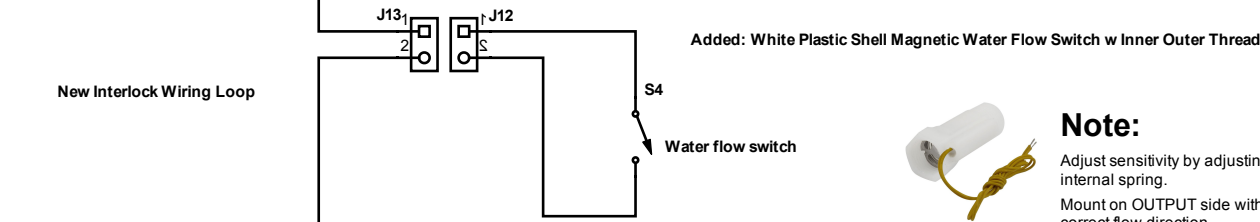
K40 Wiring V2.1	





**Note:**

I added mine to the right side of the main cover. Interlocks can be added anywhere as long as they are in series with this switch.



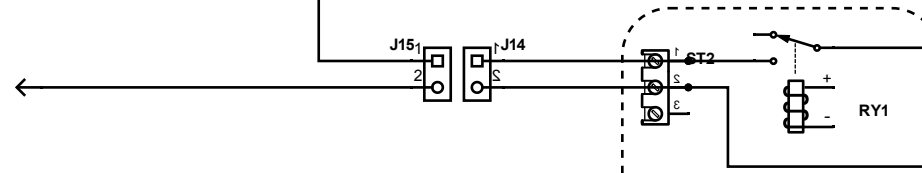
**Note:**

Adjust sensitivity by adjusting internal spring. Mount on OUTPUT side with correct flow direction.

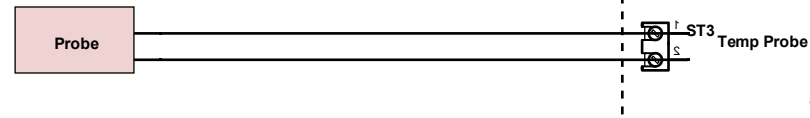


**Note on interlocks:**

Any switch in series with this interlock loop stops the laser from firing. In this configuration:  
 - the cover being open  
 - the water not flowing  
 - the water temp to high

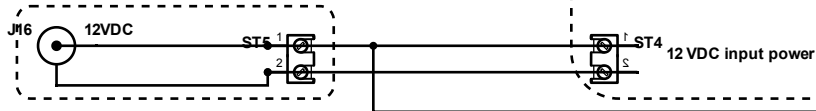


Added: Vktech Mini Digital Temperature Controller Thermostat



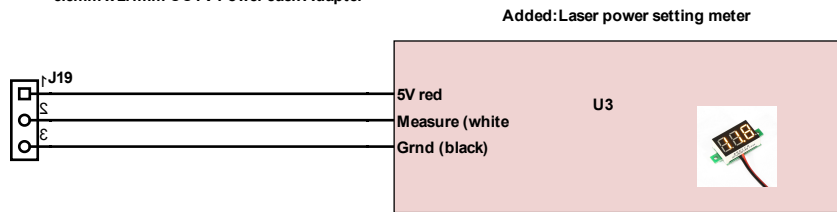
**Note:**

Setup temp limits (see manual). Alarm will sound when overtemp limits reached



5.5mm x 2.1mm CCTV Power Jack Adapter

→ 12VDC to Sync'ed driver



DROK® 0.28" LED Ultra-small DC Digital 0-100V Voltmeter Battery Voltage

**Digital Laser power setting operating theory :**

The current value set by the "current regulation" pot is not visible on the panel ammeter until the test button is pressed or until the cutting starts. This means that the operator does not know where it is set until the cutting starts.

To solve this a voltmeter is added to measure the voltage at the center of the current regulation potentiometer all the time.

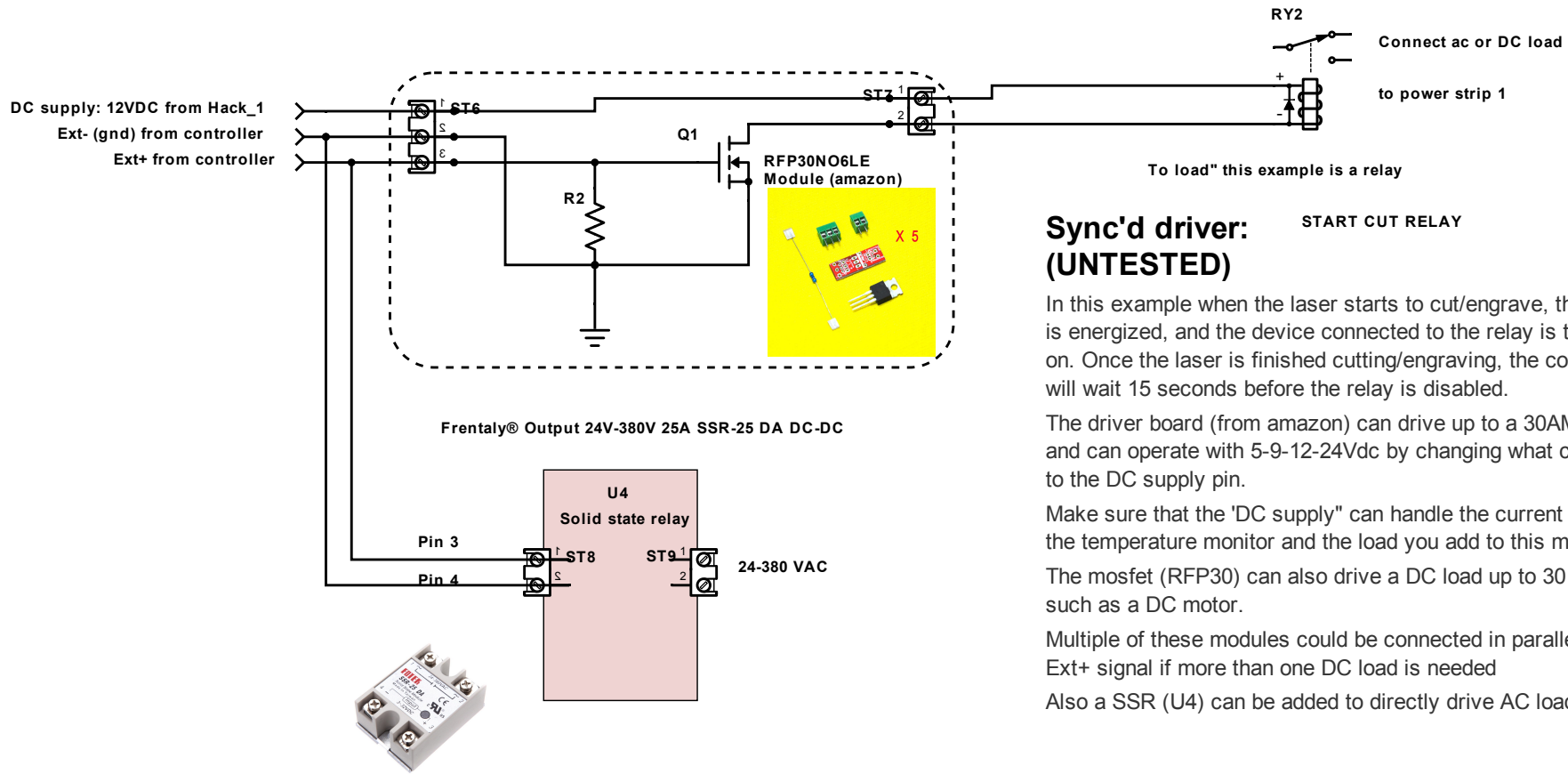
This meter reads the static setting in volts and represents a digital value that is relative to the pots position.

The user can record "power settings" as a digital pot position and accurately return to that value before starting the run.

Plan to add to control panel.

Make sure that you get a meter that will read from zero to 5v. This will require a 3 wire voltmeter

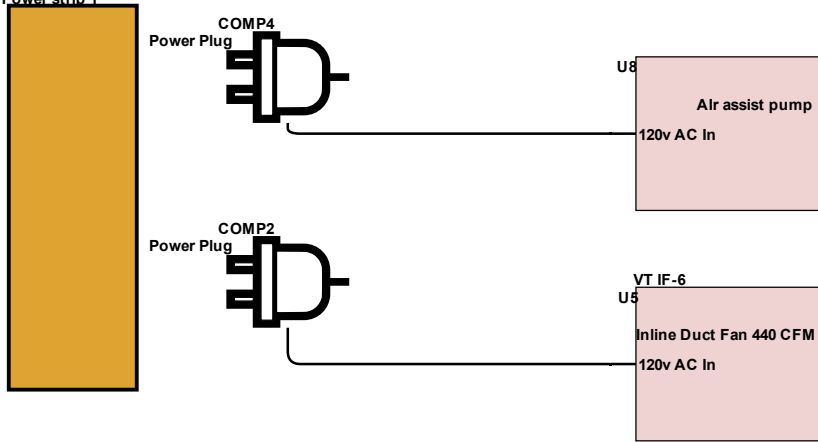




## Power strip 1

This power strip is connected to the relay on HACK2 and controlled from the K40 controller.  
UNTESTED

Power strip 1



### Air assist

HF airbrush pump to the objective lens assy.  
Later this will be connected to the start cutting relay on "Hacks" 2.

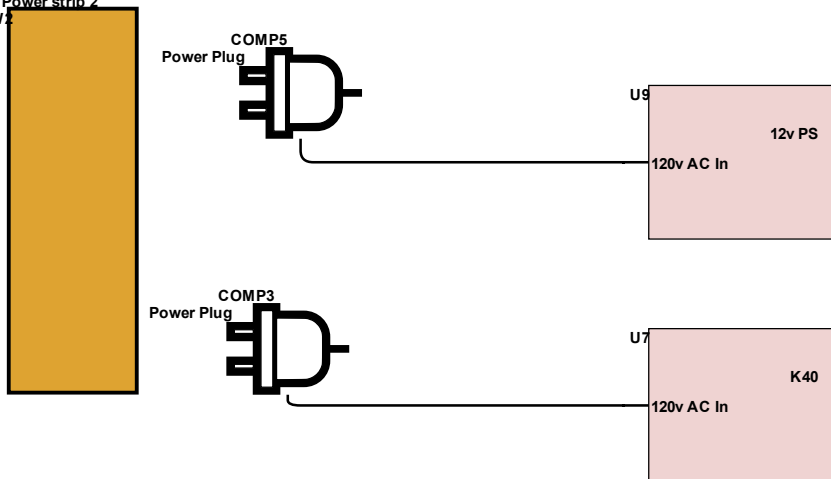
### Evacuation

6" ductwork connected to back of machine and then out to window.  
Later connect to "Hacks 2" Start Relay"

## Power strip 2

This is the main power strip and turns on the machine and accessories that stay on all the time.

Power strip 2  
PW2



### 12V accessories

Connected to laser pointer and LEDs strip in cover.  
Water pump, water temp display, laser pointer and cabinet lights.

### Laser cutter

K40 main power

