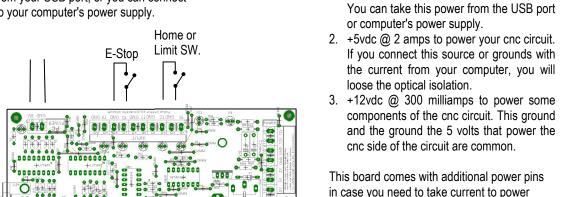
## MULTIFUNCTION CNC BOARD WIRING GUIDE C11 Rel 1

Provide +5 and ground from your computer You can use the provided USB cable to draw current from your USB port, or you can connect directly to your computer's power supply.



Adjustment pot for fine tuning the analog signal.

To External devices.

Optoisolated output and input signals.

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You can use the built in safety charge pump circuit as a means to enable the output pins by placing the jumper in the 2-3 position. The board will enable outputs when you send a 12.5khz pulse through pin 17. You can install your own circuit or switch by placing jumper in the 1-2 position and have your circuit or switch provide +5 to the EN pin. If you want your outputs enabled at all times, place jumper in 1-2 position and hardwire the EN pin with +5.

## NOTES:

- 1.All inputs and outputs are provided with pull-down resistors.
- 2. If you need to connect a device that outputs more than 5vdc, you can use a resistor to limit the current. Use the following resistor values:

10 vdc - 1 MOhm

12 vdc - 1.5 MOhm

24 vdc - 3.9 MOhm.

To use these resistor values your card must be powered with 5vdc. If you are powering your board with a different voltage unexpected results can happen., including damage of the board.



This card must be powered on both sides while your system is under power. Keep in mind noise can be transmitted into output signals that could trigger unwanted actions in your system.

This board requires a total of 3 power sources.

1. +5vdc to power the optoisolator part of the

other devices, such as Geckos.

8 AMP MECHANICAL RELAY

Analog 0-10vdc output.

8 AMP A/C SOLID STATE RELAY

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circuit that interacts with the computer.