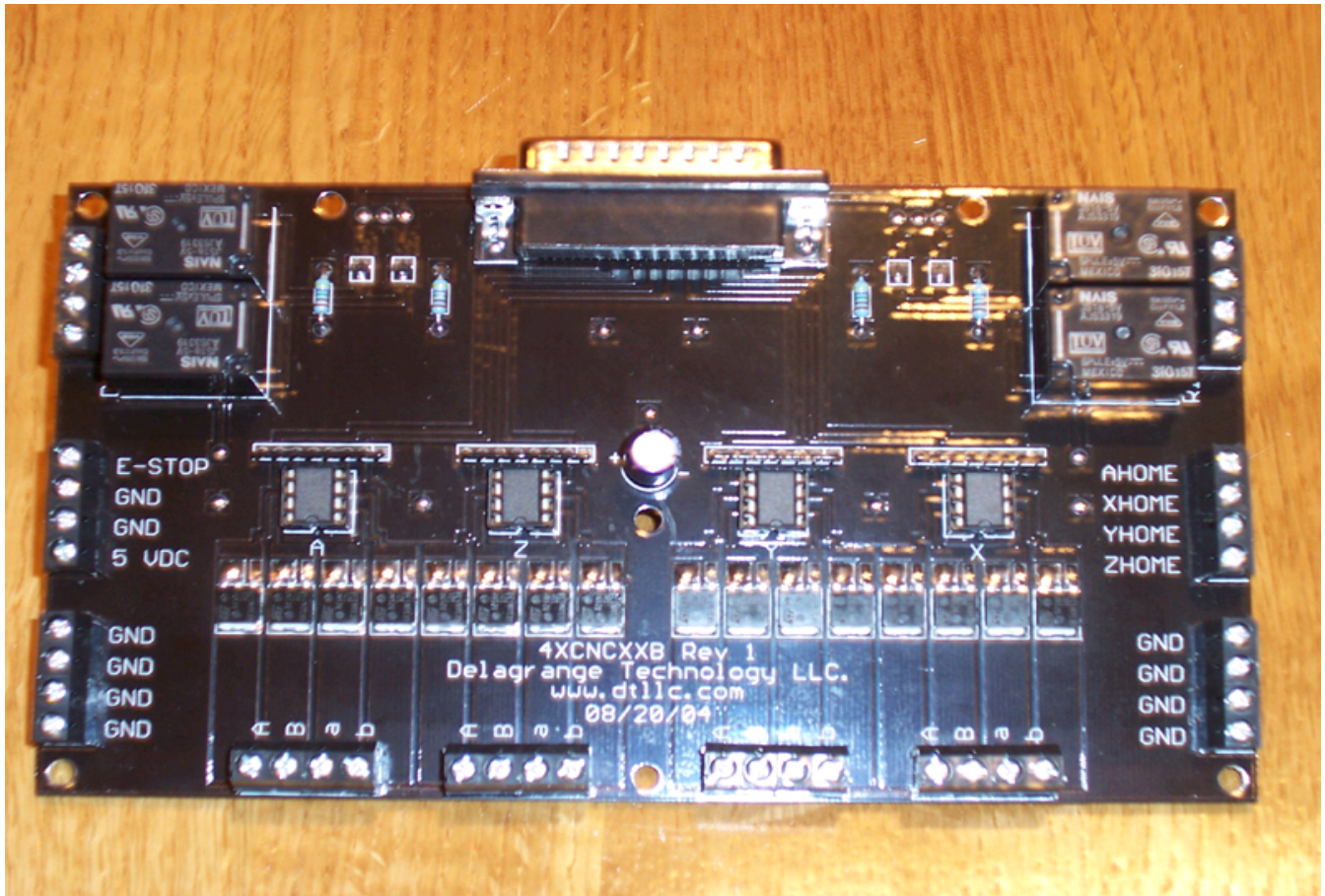


# 4XCNCI0B 10 AMP CNC INTERFACE



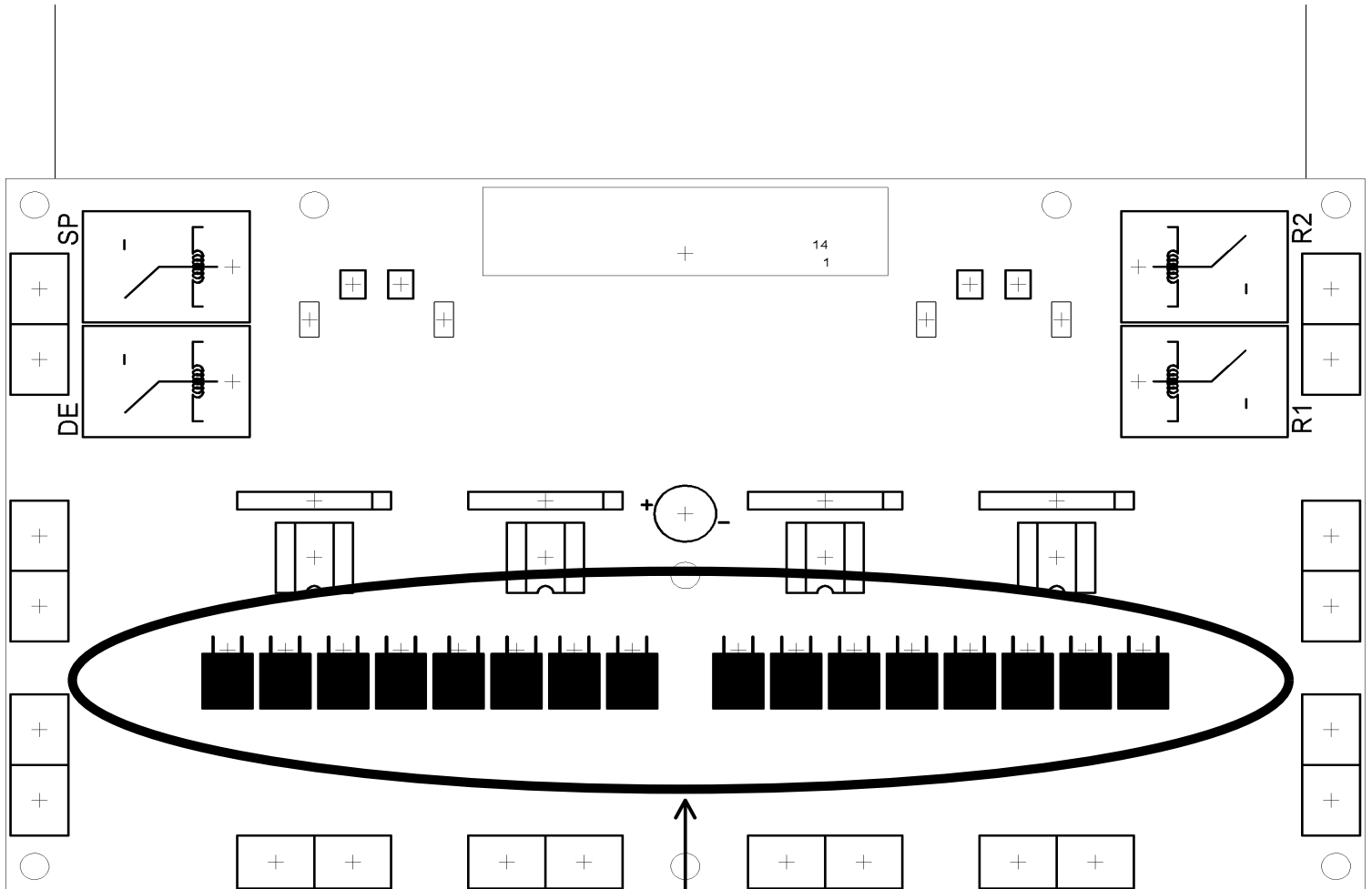
**DELAGRANGE TECHNOLOGY LLC**  
**4024 FAIRFIELD AVENUE**  
**FORT WAYNE, IN 46807**  
**(260)-557-9280 M-F 4:30PM-9:00PM**  
**admin@dtllc.com**  
**WWW.DTLLC.COM**

# **!!WARNING!!**

**If this board is used to control dangerous or potentially harmful equipment, Delagrange Technology LLC will not be held responsible for any injuries that result. Use at your own risk.**

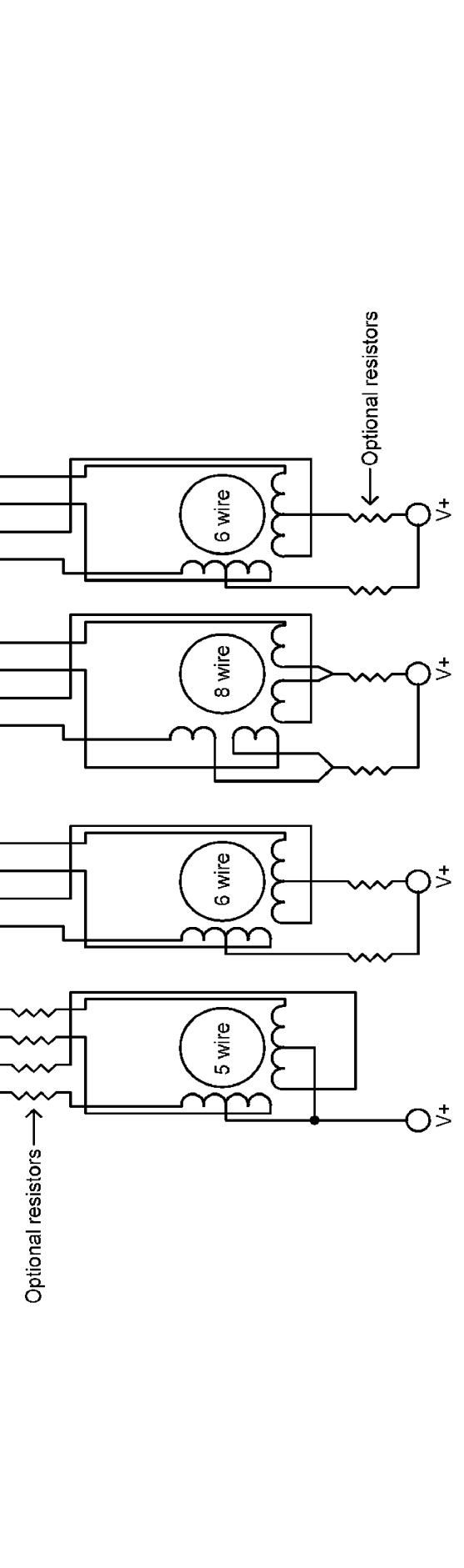
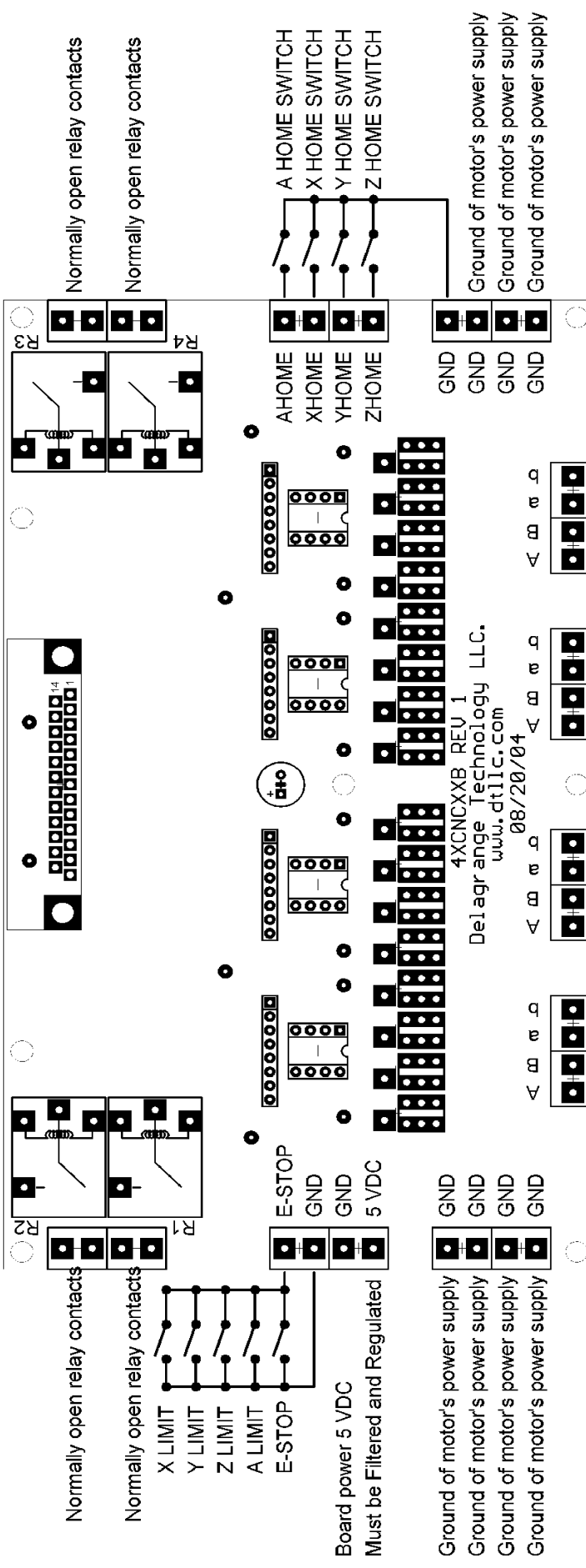
# !!WARNING!!

It is necessary that you run a cooling fan on this area of the board if you are using motors rated at 5 amps or more.



**COOL THESE PARTS!!**

To computer parallel port



V+ Motor's power supply Max 45 VDC

## How to hookup the board as a L/R Drive to run at higher than motors rated voltage for better performance

Motors Rated Resistance = Motors Rated Voltage / Motors Rated Current

Motors Rated Current = Motors Rated Voltage / Motors Rated Resistance

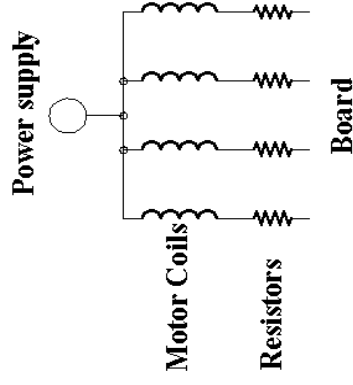
Motors Rated Voltage = Motors Rated Current x Motors Rated Resistance

Total Resistance = Voltage of Power supply / Motors Rated Current

Resistor's Value = Total Resistance - Motors Rated or Measured Resistance

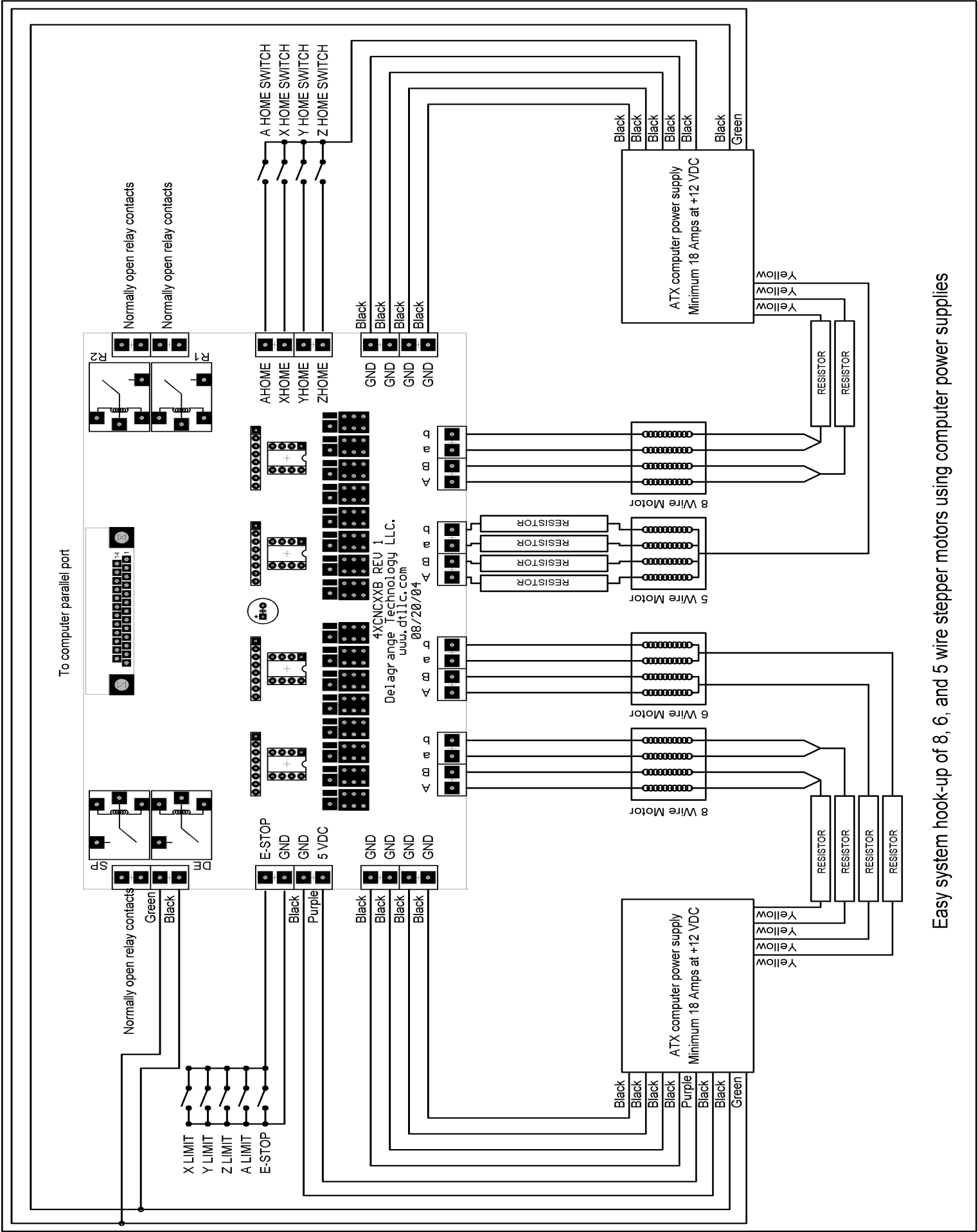
Resistor's Voltage Drop = Motors Rated Current x Resistor's Value

Resistor's Power Rating = (Resistor's Voltage Drop / Motors Rated Current) x 2



## DB25 Pinout

- 1 (relay 1) a high on this pin closes contacts
- 2 (x Direction) High / Low changes direction of x stepper
- 3 (x Step) number of pulses = number of steps for x stepper
- 4 (y Direction) High / Low changes direction of y stepper
- 5 (y Step) number of pulses = number of steps for y stepper
- 6 (z Direction) High / Low changes direction of z stepper
- 7 (z Step) number of pulses = number of steps for z stepper
- 8 (a Direction) High / Low changes direction of a stepper
- 9 (a Step) number of pulses = number of steps for a stepper
- 10 E-Stop/Limits when this pin is grounded software stops all motion can be configured for a high instead of low in the software.
- 11 (X home) home switch for the x axis can be low or high depends on software settings
- 12 (y home) home switch for the y axis can be low or high depends on software settings
- 13 (z home) home switch for the z axis can be low or high depends on software settings
- 14 (Relay 2) a high on this pin closes contacts
- 15 (a home) home switch for the a axis can be low or high depends on software settings
- 16 (Relay 3) Spindle a high on this pin closes contacts
- 17 (Relay 4) Drive enable a high on this pin closes contacts
- 18 Gnd
- 19 Gnd
- 20 Gnd
- 21 Gnd
- 22 Gnd
- 23 Gnd
- 24 Gnd
- 25 Gnd



Easy system hook-up of 8, 6, and 5 wire stepper motors using computer power supplies

