Spider v3.0
Voron 2.4 R2 Pro

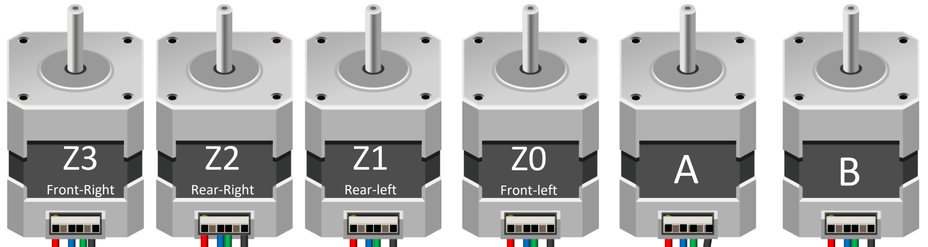
Please make sure that your heating bed is in line with the voltage of your country or region. The high voltage version will hat very slowly when used at low voltage and may not reach the target temperature. The low-voltage version is used in the high-voltage version to heat up quickly, even exceeding the temperature you set, which is very dangerous.

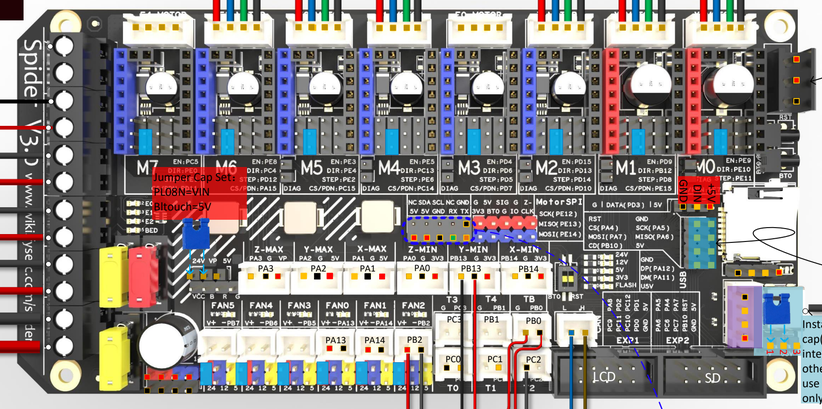
HOT SURFACE
DO NOT TOUCH

AC Heating Bed 110/220V INPUT

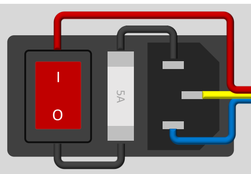
Exhaust Fan
6020 FAN 24V

Nevermore filter
5015 FAN 24V x2

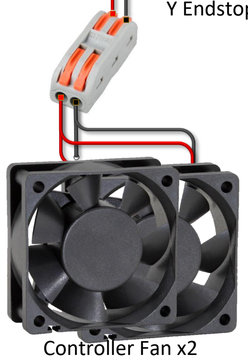




25A SSR



Notice：
Please select the voltage of your area before powering up.



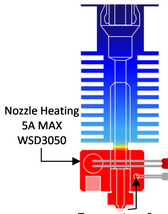
Controller Fan x2
6020 FAN 24V

Hotend Fan
4010 FAN 24V

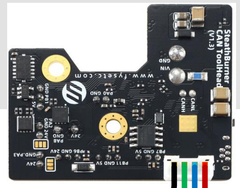
Print Cooling Fan
5015 FAN 24V

Y Endstop

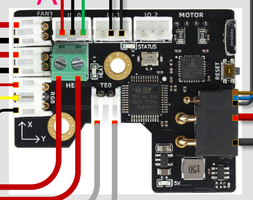
Led RGBW

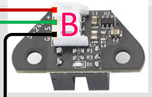


Temperature Sensor
NTC/PT100/Thermocouple(Need AD597 add on)
3.3V 4.7K(0.1%)Pull Up



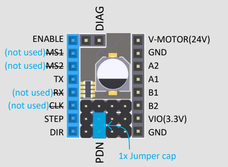
Stealthburner CAN PCB





X Endstop

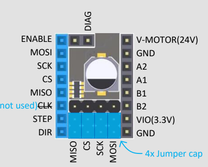
USE FYSETC TMC 2209 V3.1



PDN: It is connected to TX for communication between TMC and MCU, using single wire. The jumper cap shown in the figure must be setted before the drive module install.

DIAG: It is used to go home without sensing, while ensuring that the jumper corresponding to the limit is in the closed state.

USE FYSETC TMC5160/5161/2130



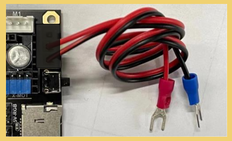
(SPI4 used for TMC diver SPI,CS and PDN share pins)

DIAG: It is used to go home without sensing, while ensuring that the jumper corresponding to the limit is in the closed state.

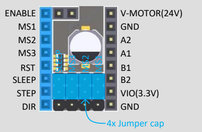
48V Driver Support（M1 & M2）:

1.If you use 24V, you need to connect the 24V-PIN and 48V-PIN, and use the jumper plug that we provide.

2.If you use 48V, you need to connect an external power supply to the 48-PIN and GND-PIN using the connecting wires provided by us.



USE 4988 or 4988like driver



The spider provides a serial port for connecting to the Raspberry Pi or WiFi module, and this interface has a strong enough (8A MAX) 5V power supply. In order to use the only hardware serial port of the Raspberry Pi, you need to disable the console function and map the hardware serial port to GPIO14 and GPIO15.

You can refer here:

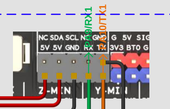
sudo raspi-config
=> Interfacing Option
=> Serial
=> NO
=> YES
sudo nano /boot/config.txt
=> add this line :
dtoverlay=pi3-disable-bt
=> then
sudo reboot
sudo nano /boot/cmdline.txt
=> remove the word phase
"console=serial0,115200" or
"console=ttyAMA0,115200"
sudo reboot

SD Pins Out: You can use the SD Card in a farther position by the SD module, but it is not recommended to exceed 30cm.

Install this jumper cap(pin1&pin2) to use internal DC5V,close the other two(pin2&pin3) to use USB5V(recommend only for debug).

The type-C USB socket is used by default, and type-A is also reserved. If you need it, you can Add it by yourself.

USB Pins Out: used to connect the Raspberry Pi inside the printer via USB.



Connect the Raspberry Pi to Spider