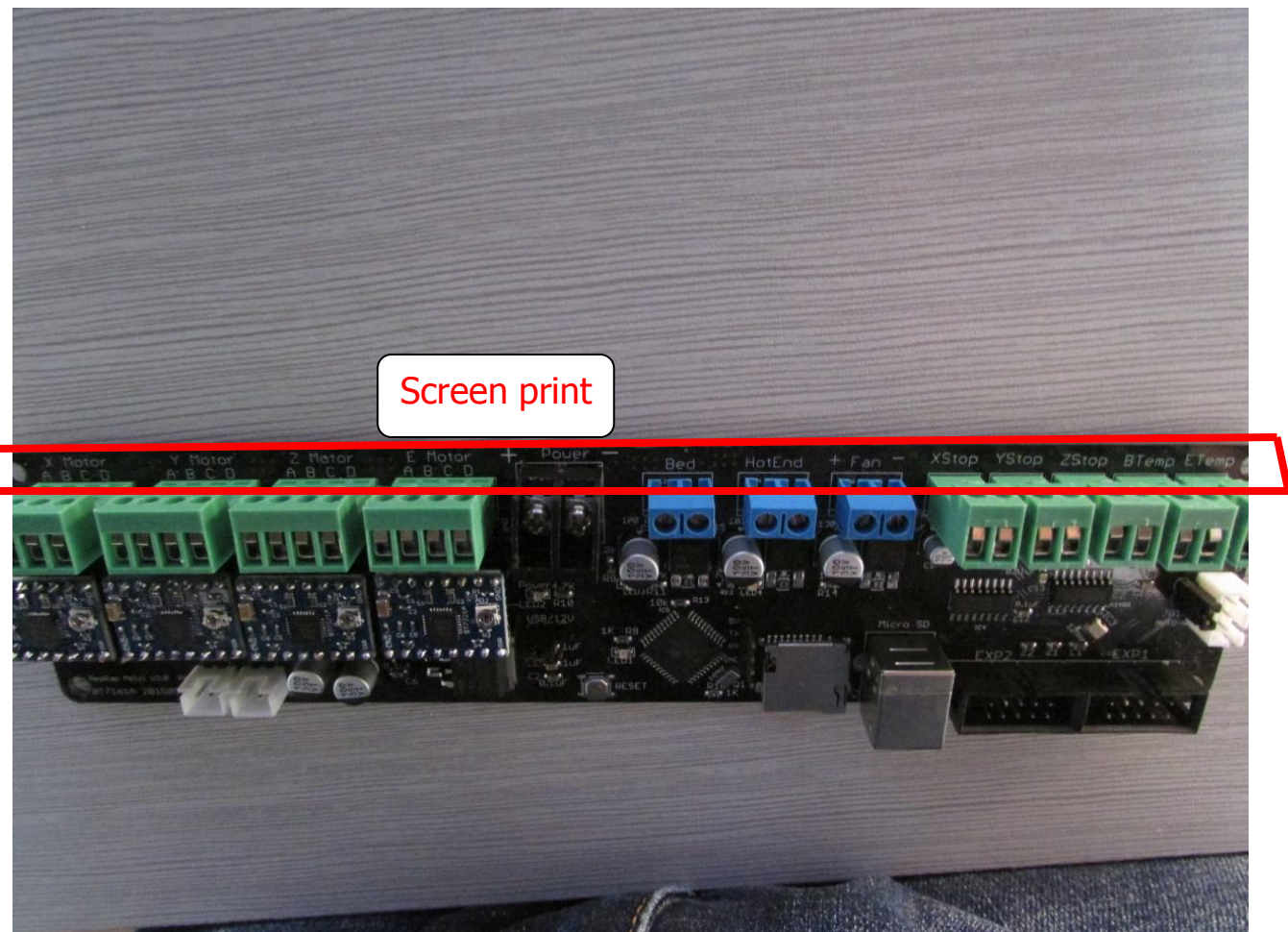


# RAISCUBE 3D Printer Wiring Manual

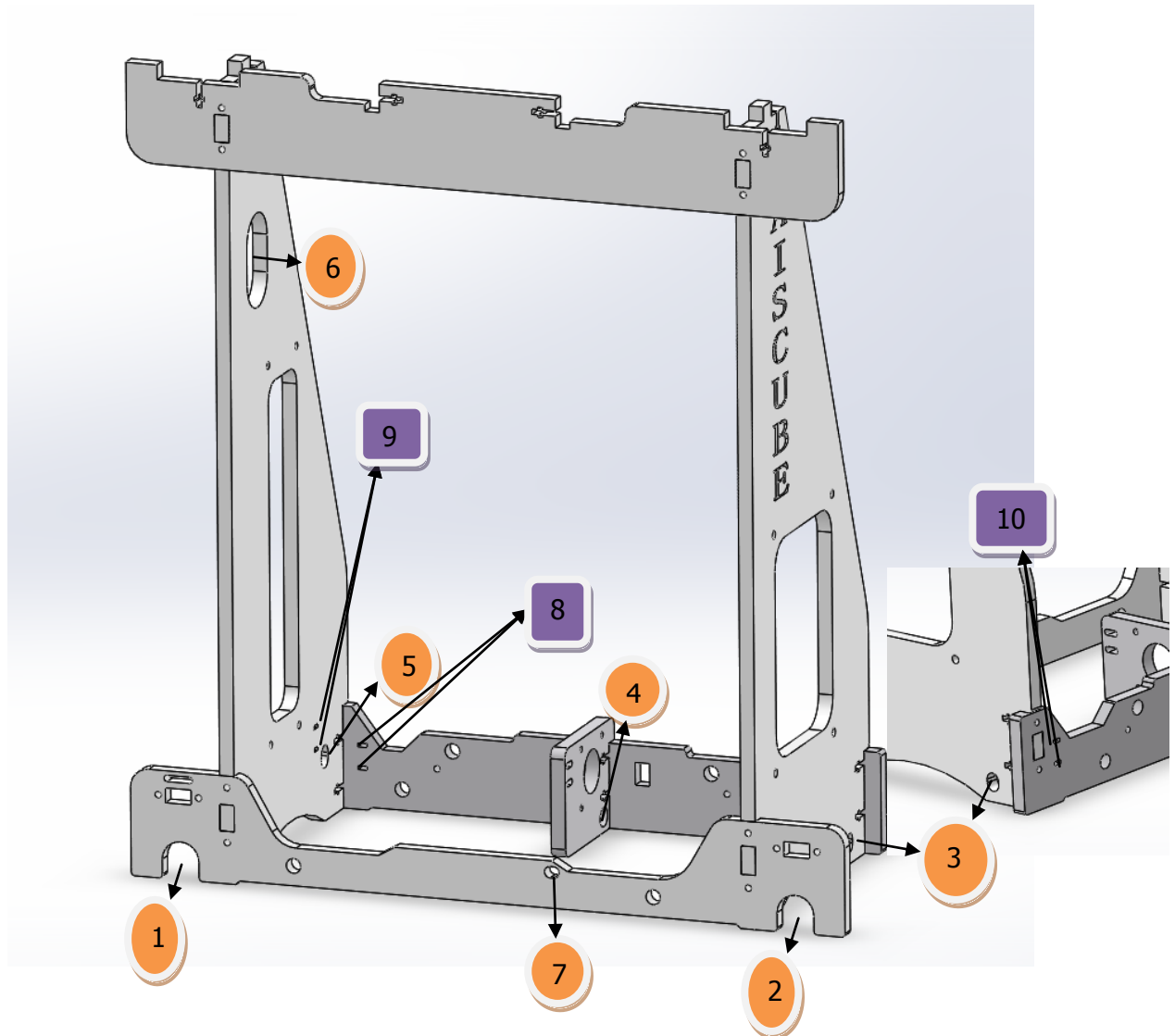
## 1. Screen Print.

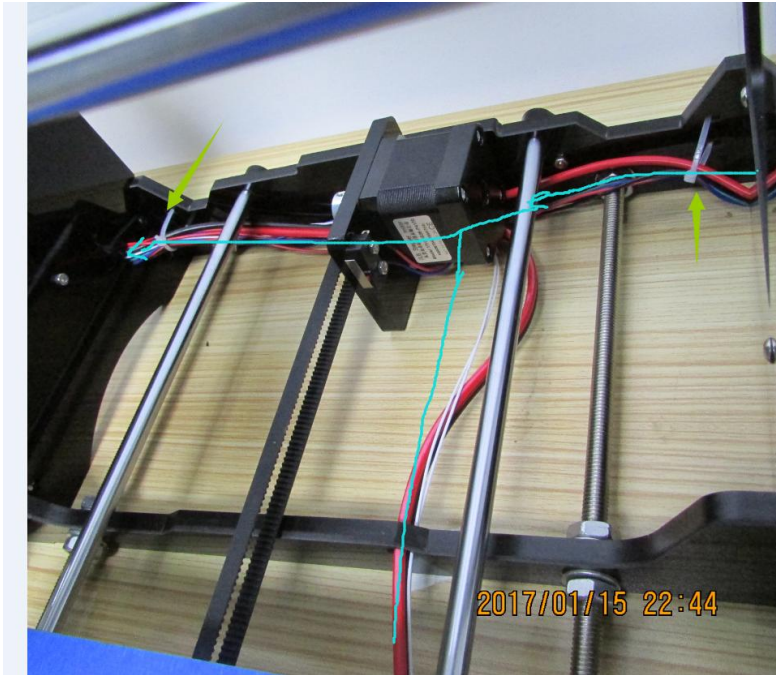
First of all , please do READ the “Screen Print” on the board.



In pictures, marks no.1–no.7 are holes designed for wire-bunch to pass-by. Mark no.8–no.10 are small holes designed for Mounting Zip-tie to bundling cords. (Please check the following two pictures.)

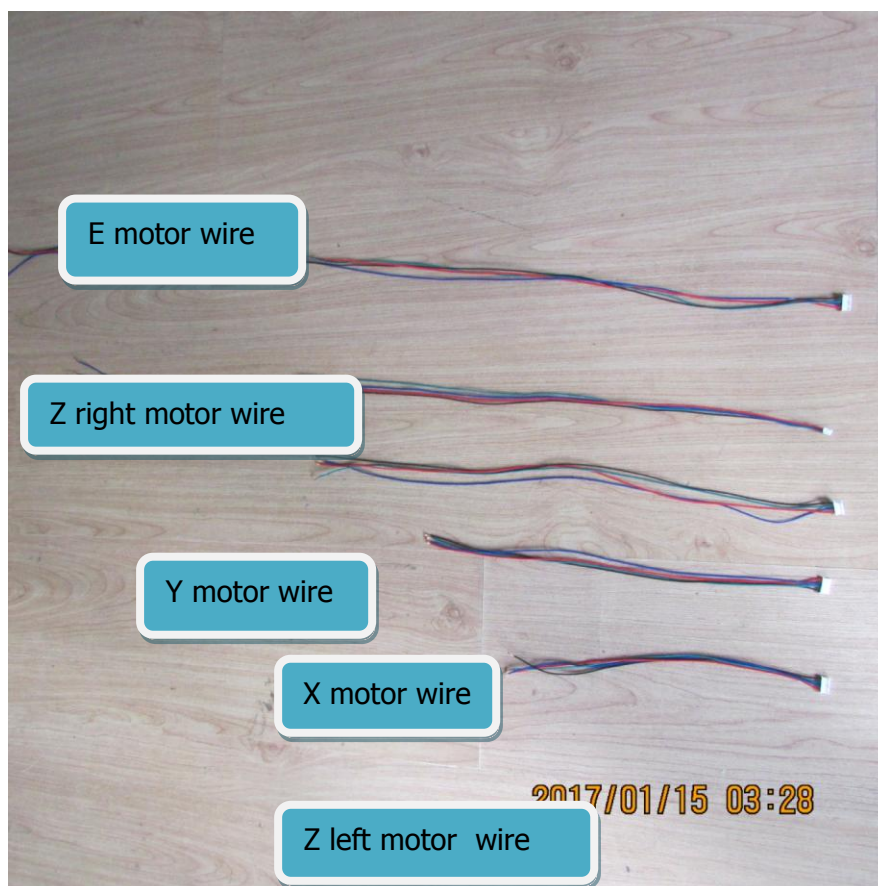
### Threaded Hole Picture



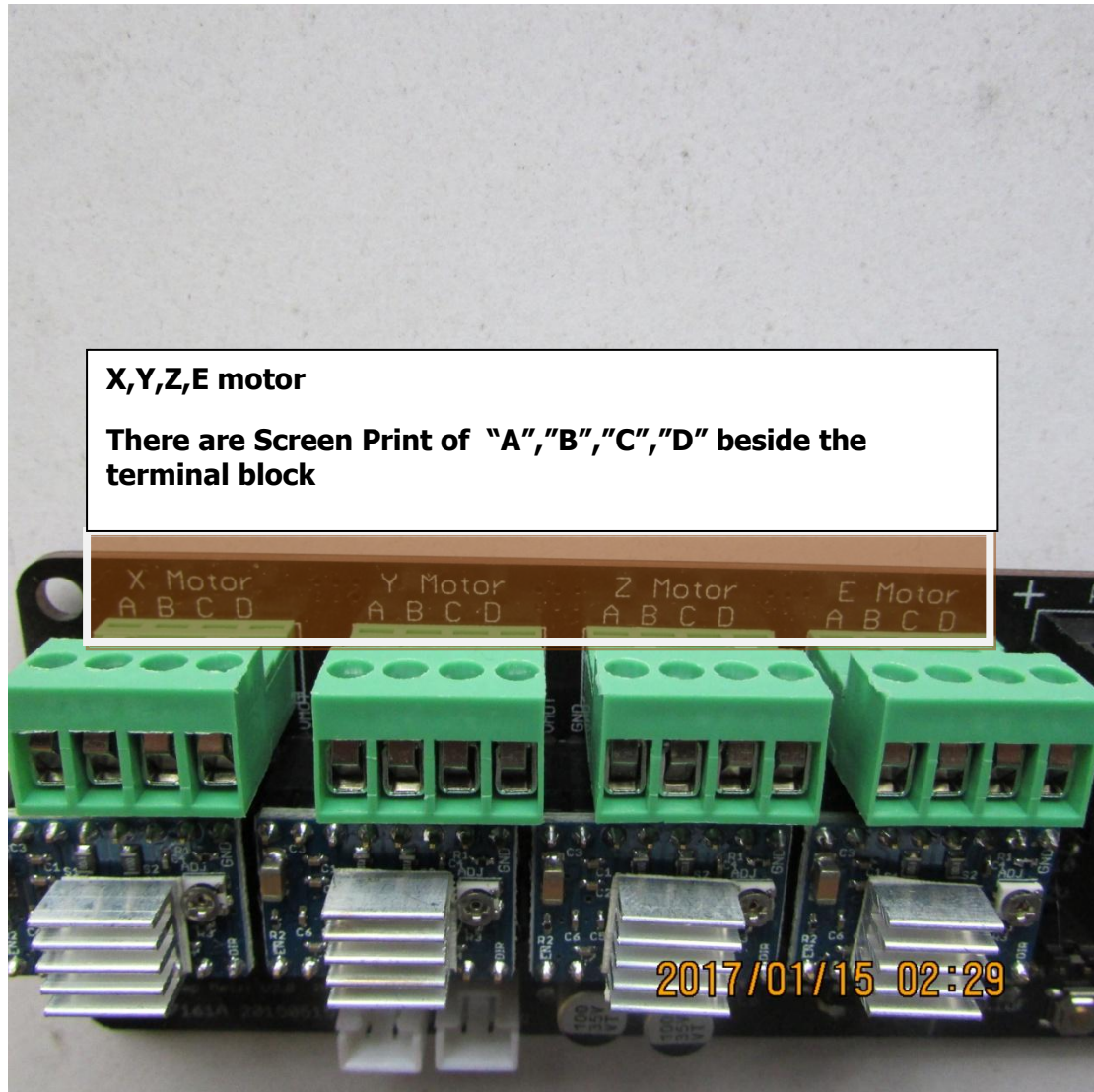


## 2. Motor Wires.

The steppers wires are marked as E/X/Y/Z when packing. Each Motor has four wires, colored by red, green, blue, black. It is important to notice the colors for later connection to mainboard purpose.





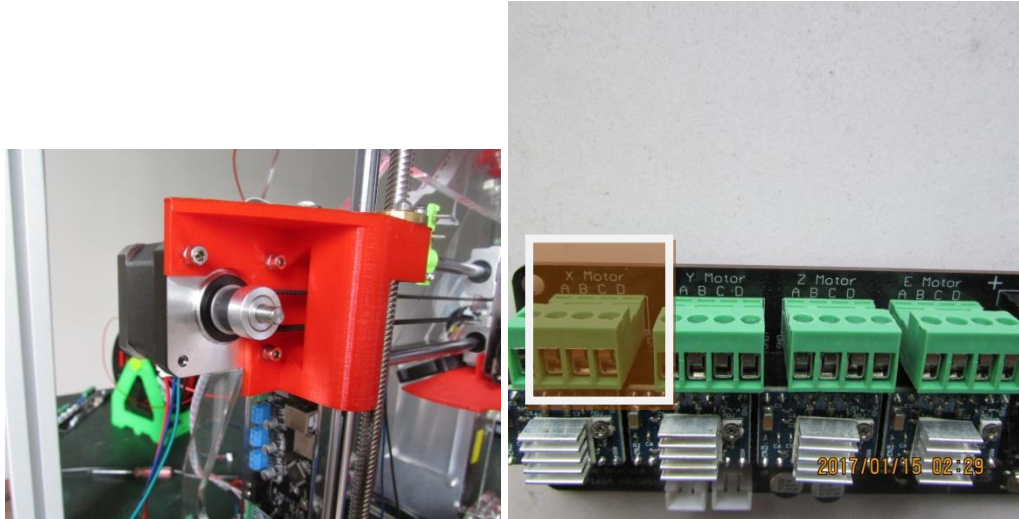


Please note that there are four wires each motor, and each wire in a different color.

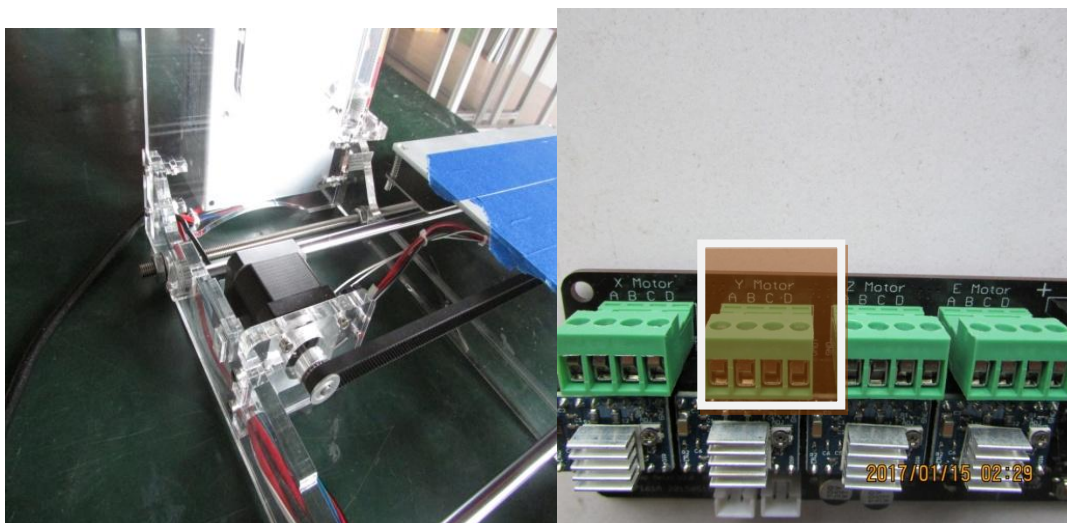
The wire connection of the motor shall follow the sequences as red-A, blue-B, green-C, black-D correspondingly.

Here are the more detailed illustration of motor wire connections.

## 2-1. X motor



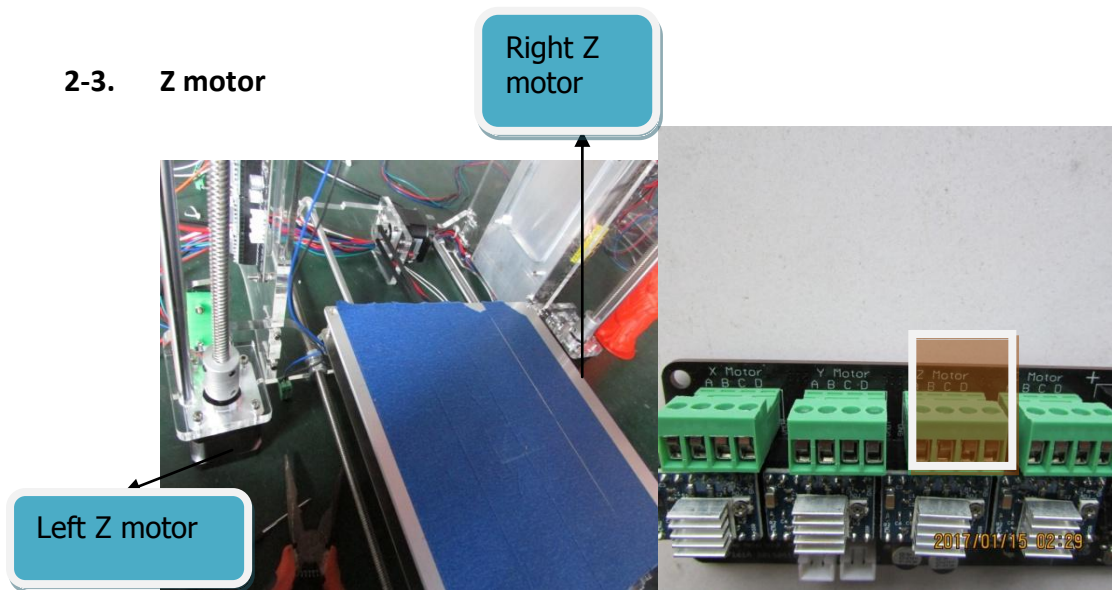
## 2-2. Y motor



According to the [Threaded Hole Picture](#), the wire through:

NO.4 → NO.5 → Main Mother Board

### 2-3. Z motor



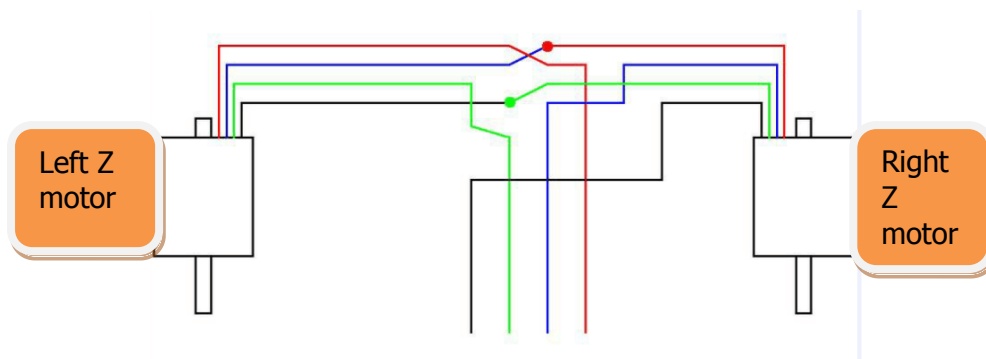
According to the **Threaded Hole Picture**, the left motor wire through:

NO.1 → wire → ( green wire and red wire ) Main Mother Board ( If you can't understand ,look down )

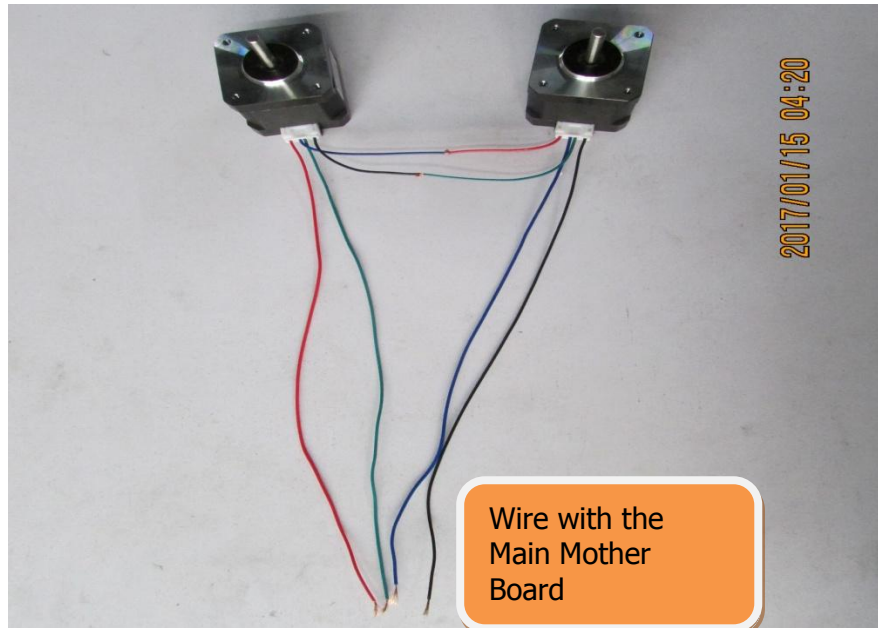
The right motor wire through:

NO.2→NO.3→NO.4→NO.5→wire →(Blue wire and black wire)Main Mother Board

we need connect both of Z motor, the follow picture show the method:

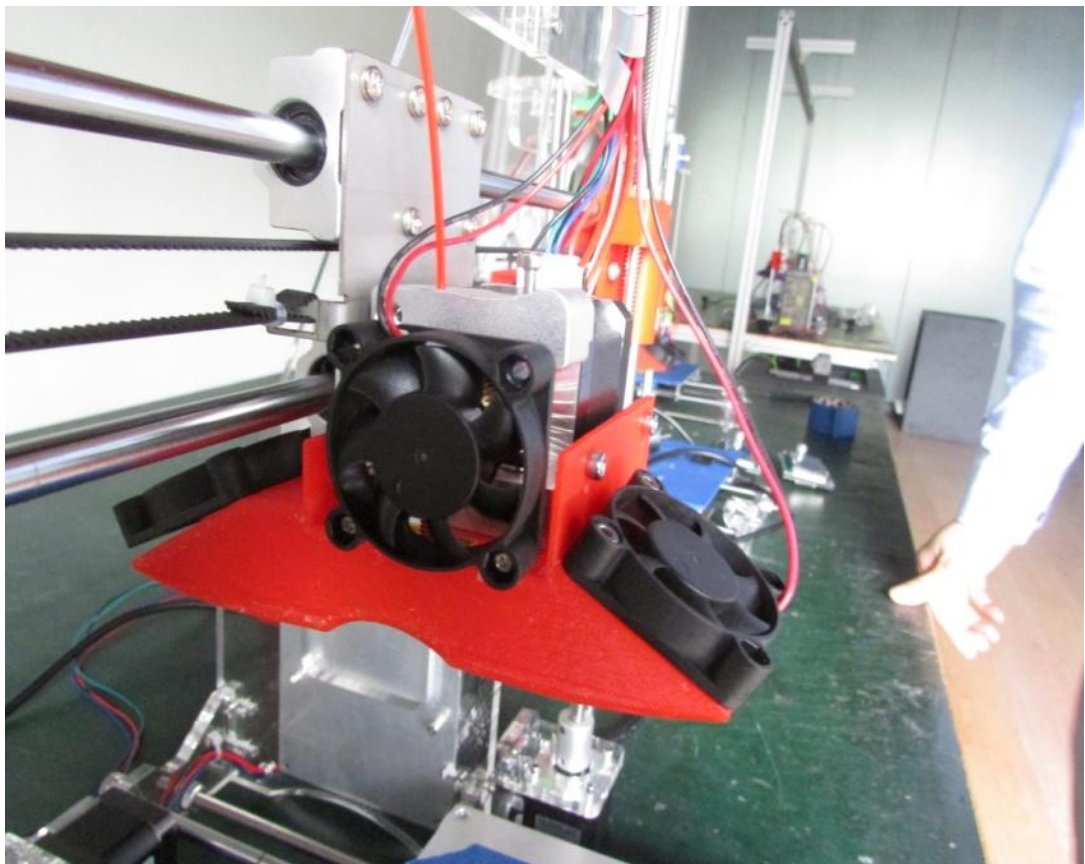






## E motor

About the Extruder, We must distinguish the wire.

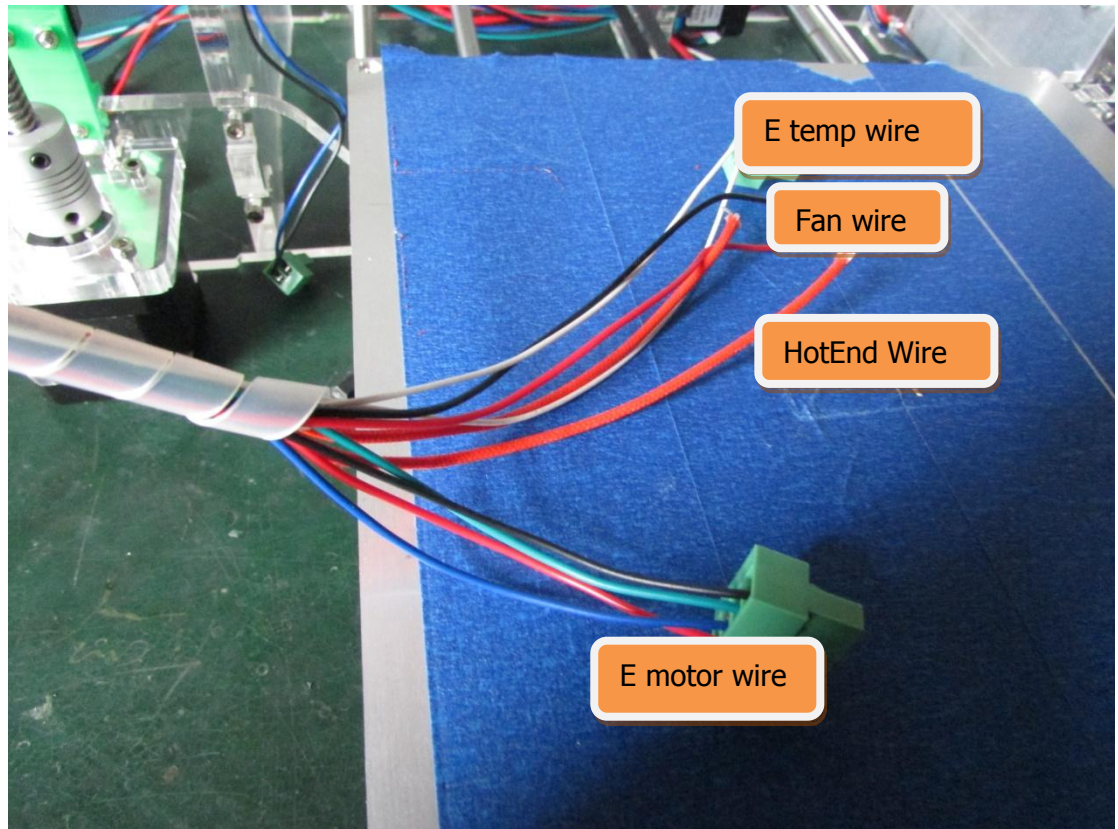


The four motor wire own the same specification with other motor wire.

The two red wires with nylon skin is HotEnd wire

The another red wire and black wire is Fan wire

Finally, the two small white wires is the E temp

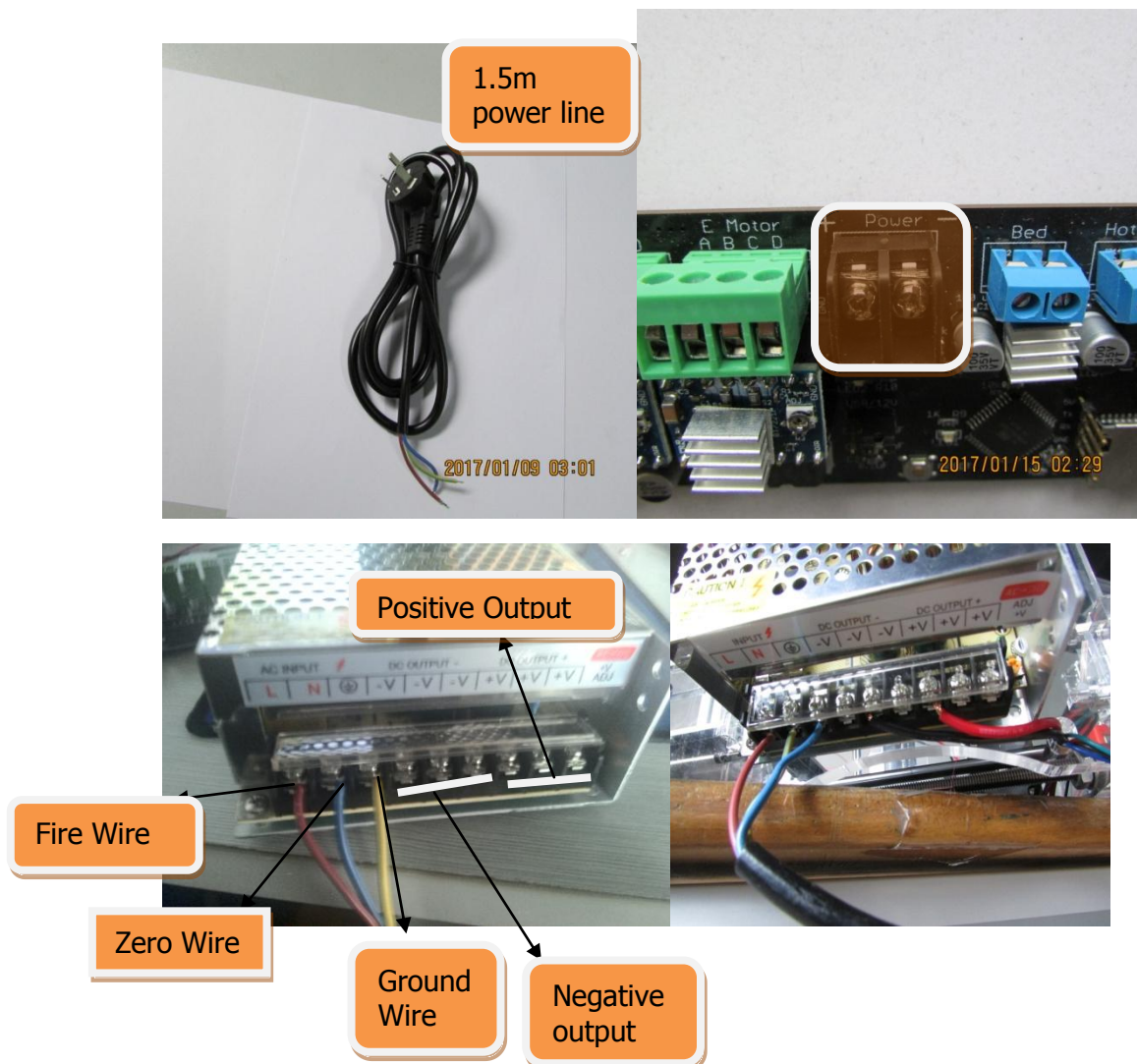


According to the [Threaded Hole Picture](#), all of these wires through:

NO.6 → Main Mother Board



### 3. Power Supply



The 1.5m power line correspond with the power supply :

Red wire –Fire wire, blue—Zero Wire and yellow green transfer – Ground Wire

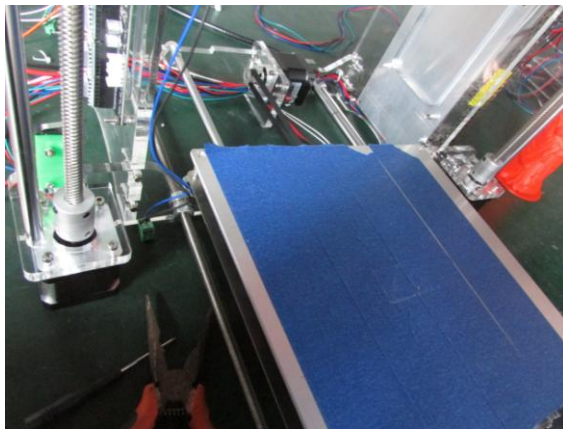
You can choose anyone of the Positive Output with the thickest red wire. And anyone of the negative output with the thickest black wire.

Then wire the Red wire with the Power “+” in Main Mother Board ,the black wire with Power “-” in Main Mother Board.

According to the [Threaded Hole Picture](#), the black and the red wires through:

NO.3→NO.4→NO.5→Main Mother Board

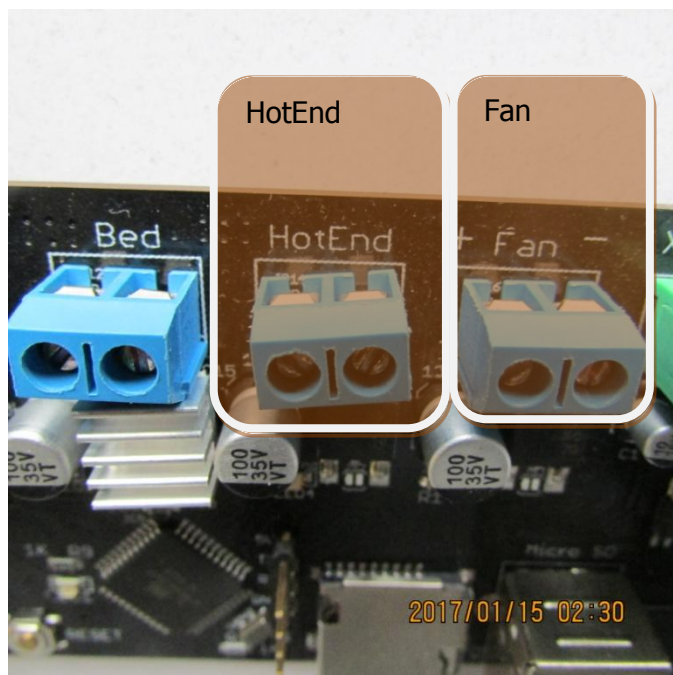
## 4. HotBed Plate



There are four wires from the HotBed, the thicker pair is the Bed Wire. They don't distinguish the positive and negative. Notice that the Export of the wire toward the front  
According to the [Threaded Hole Picture](#), the wires through:  
NO.7→NO.4→NO.5→Main Mother Board

## 5. HotEnd and Fan

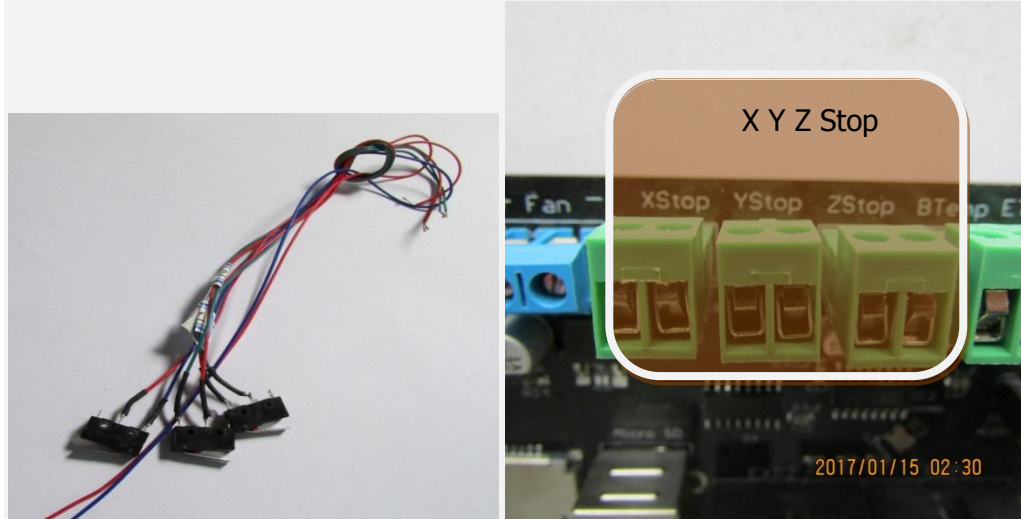
The HotEnd and Fan own the same traces with E motor. And you can see the picture in 1-4. The terminal block follow:



The Fan wire correspond with the Main Mother Board: Red wire ---Fan"+ " and black wire ----Fan"- ".

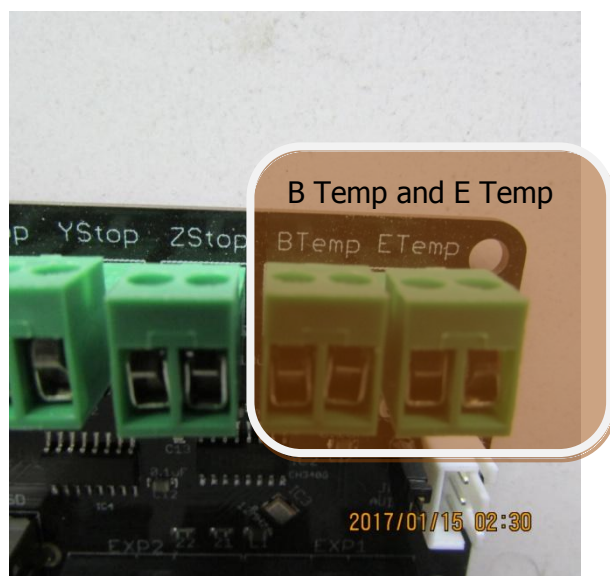
## 6. End-stop

There is no difference of left&right endstop wire interfaces. Just connect respectively Xstop-X Endstop, Ystop-Y Endstop, Zstop-Z Endstop.



As for the wire paths, the X-Stop-End and the Z-Stop-End needn't pass through any hole. The Y-Stop-End own the same pathway with the Y motor wires.

## 7. B Temp And E Temp



The Temp wires are small and write. The B Temp wires are the other pair Of wires from the HotBed (3) .Its trace is same with the Hotbed

And the E Temp own the same trace with E motor(1-4).