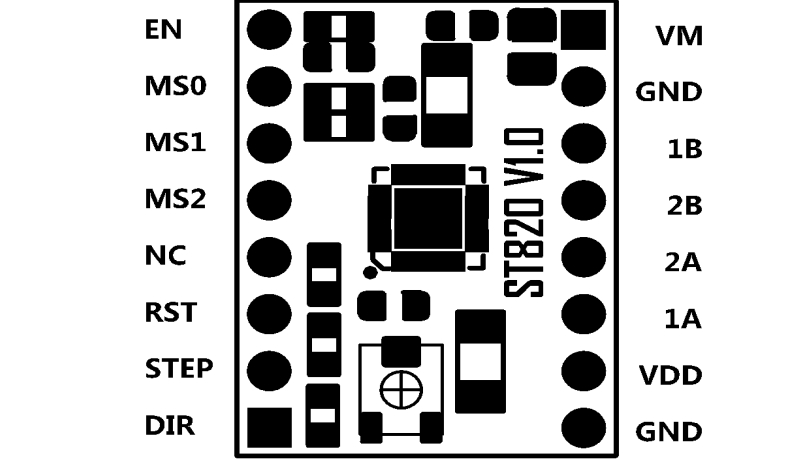
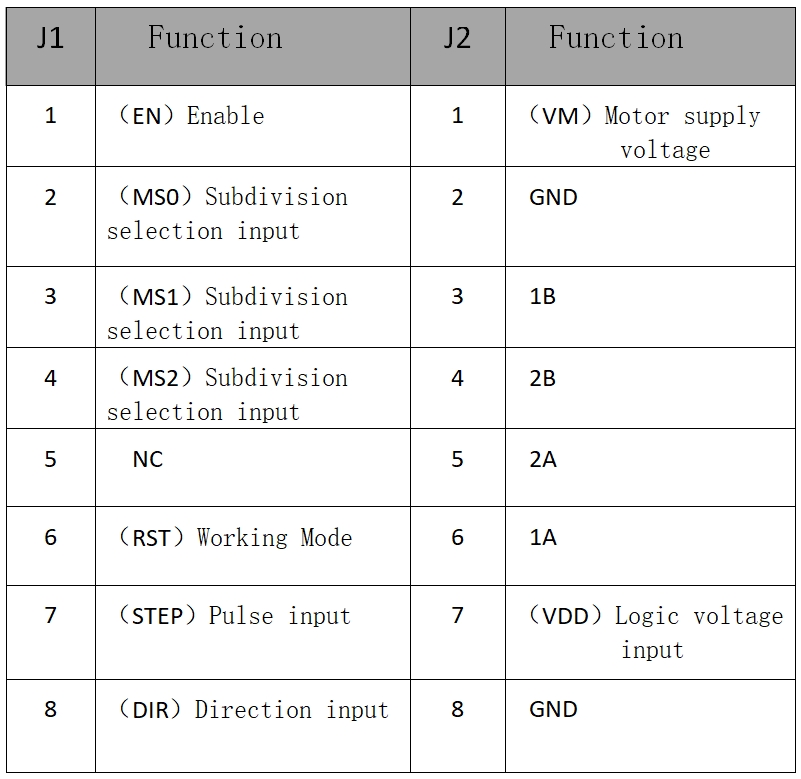
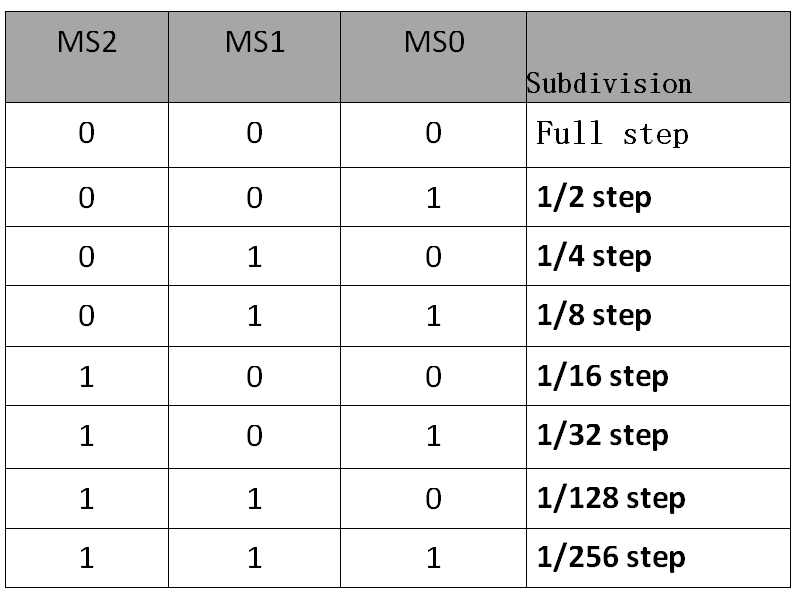
**Driver board bitmap and pin function:**





**Subdivide and select Settings:**

Enter MS0, MS1, MS2 to set the drive's subdivision value as follows:



**Drive current:**

1. Potentiometer is used to adjust the parameters of ST820 PWM current controller

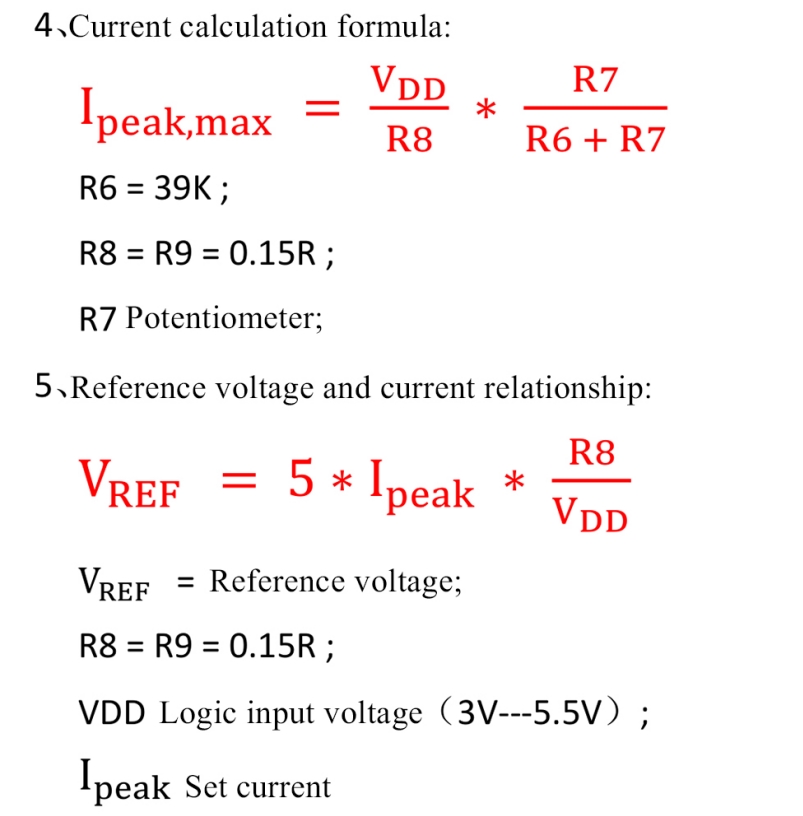
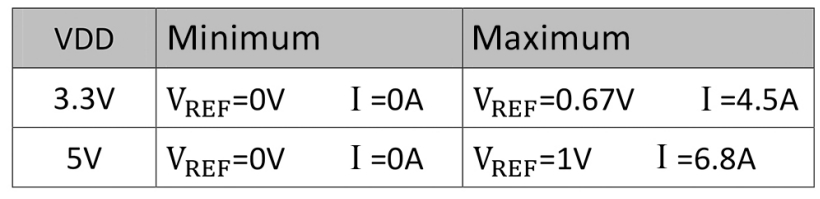
Test the voltage and set the peak current input of motor phase. Clockwise rotation

Increase current, decrease current by counterclockwise rotation. The scope depends on VDD

Logical power supply voltage (pin 7 of J2), as shown in the following table:

2. Because PWM controls the current, the minimum current can appear.

3. The overcurrent protection of ST820 can limit the actual peak current.

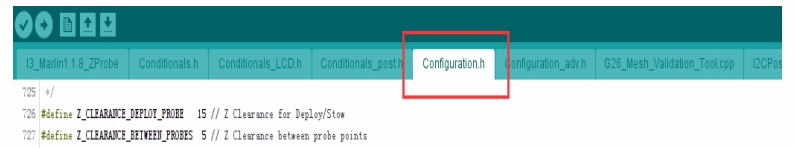


**Firmware modification method:**

 1. Since the driver with 8729, A4988 and other drivers ENABLE (ENABLE)

 2. Signals are reversed, so it is necessary to replace the above drivers with this driver

 3. Line to modify firmware.

  ①Open the firmware and find the “Configuration.h”file.  


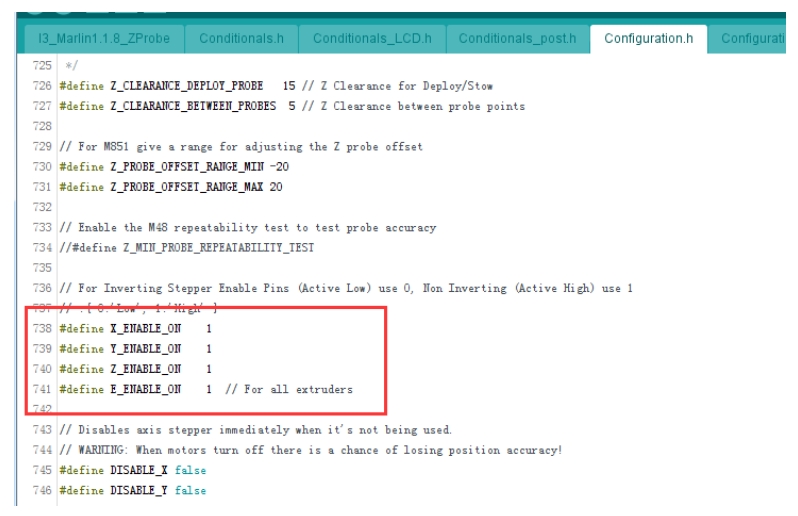
  ②Found in the project file

  “#define X\_ENABLE\_ON 1”

  “#define Y\_ENABLE\_ON 1”

  “#define Z\_ENABLE\_ON 1”

  “#define E\_ENABLE\_ON 1”

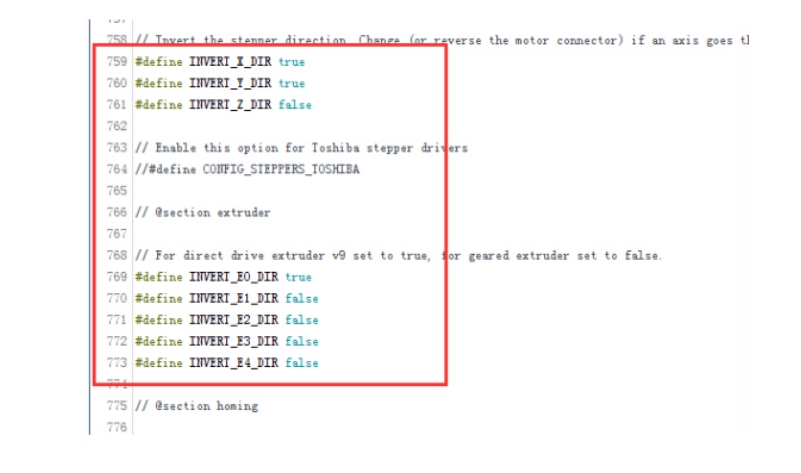
 Change the following value to "1".

  ③ When you use it, if it's the opposite, you need to change direction. in"Configuration. h" file

  “#define INVERT\_X\_DIR true”

  “#define INVERT\_Y\_DIR false”

  “#define INVERT\_Z\_DIR false”...

  Change "true" to "false" or "false" to "true" after the opposite axis to adjust the direction

**Note:**

1, the driving ENABLE control signal with 4988, 8729. And the driver signal is the opposite, use the driver to replace the above driver. When, need to modify the firmware ENABLE signal, in the opposite direction. You also need to change the direction.

2. The indoor temperature is relatively high due to the large heat generated during the driving operation. In the case of, please try to choose a lower subdivision or add to the driver. Hot fan prevents excessive temperature from burning the drive.

3. When adjusting the potentiometer setting current, please unplug the motor to avoid burning drive.

4. Do not plug and unplug the motor when it is live, so as not to damage the drive.

5. When installing heat sink, please pay attention to the gap between heat sink and pin pin. Can contact, prevent drive short circuit.