HY-JK02-M 5-axis interface board manual

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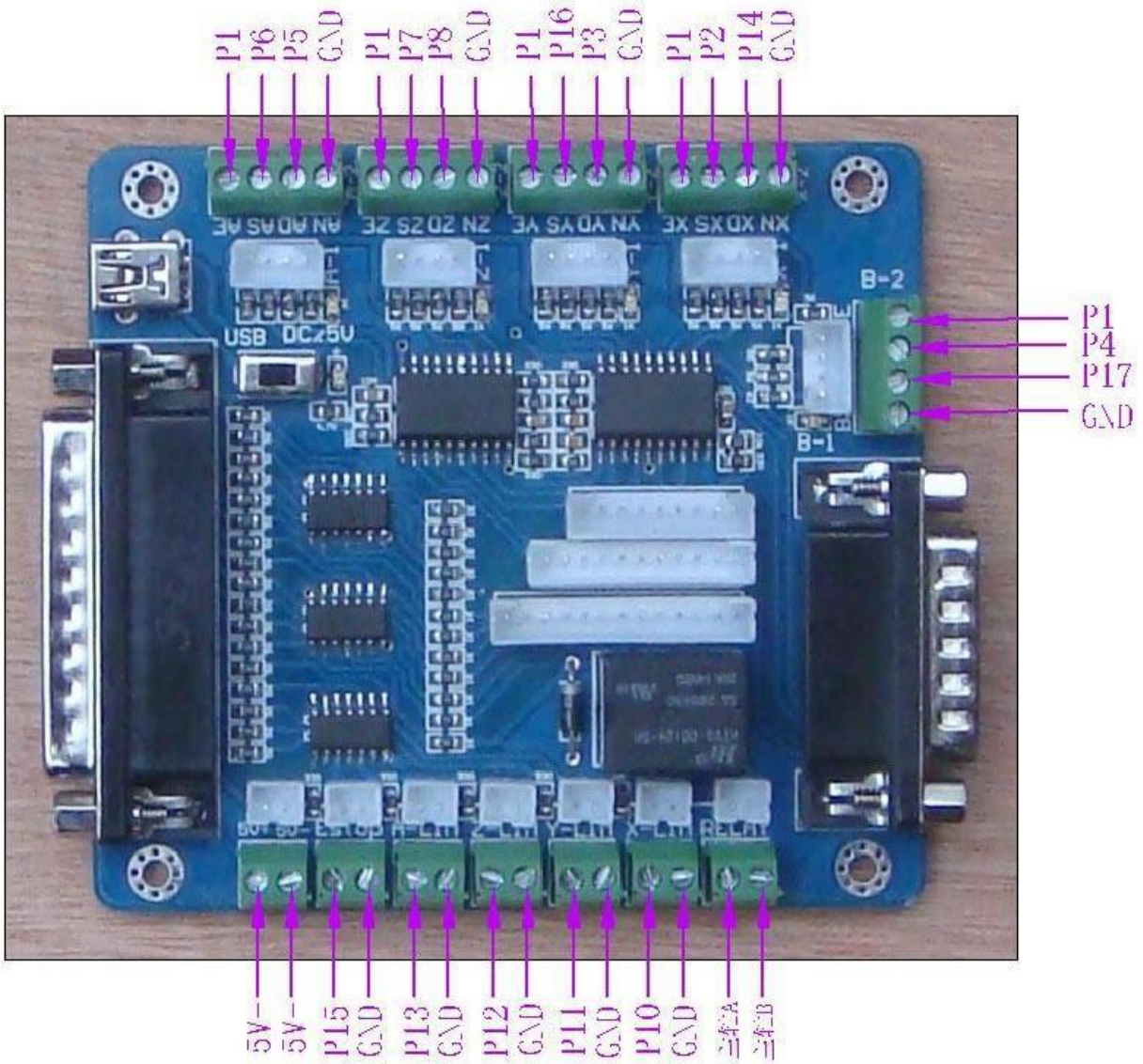
use of NC products better and faster ，Please read

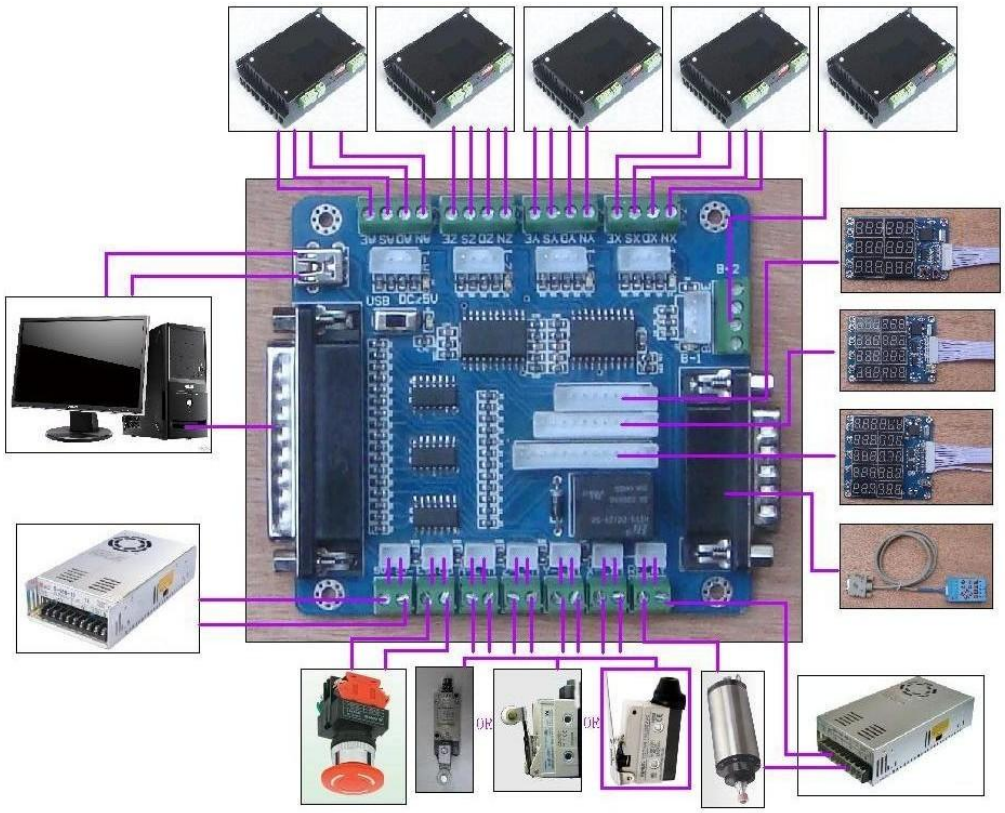
Features：**Features**
1: The maximum matching 5-axis stepper motor driver 2: The two-stage signal processing, signal transmission smooth, powerful anti-jamming 3:5 input interface to define the emergency stop, limit, points in the knife, etc. 4: relay output control interface, can be accessed by the spindle motor or the air pump, water pump, etc 5: five-axis job LED display, visual display products, working condition

Electrical performance (Tj = 25 ℃ ambient temperature when):	
Input Power	5V DC power supply or computer USB to take power
Work axis stepper	Received the highest 5-axis independent driving

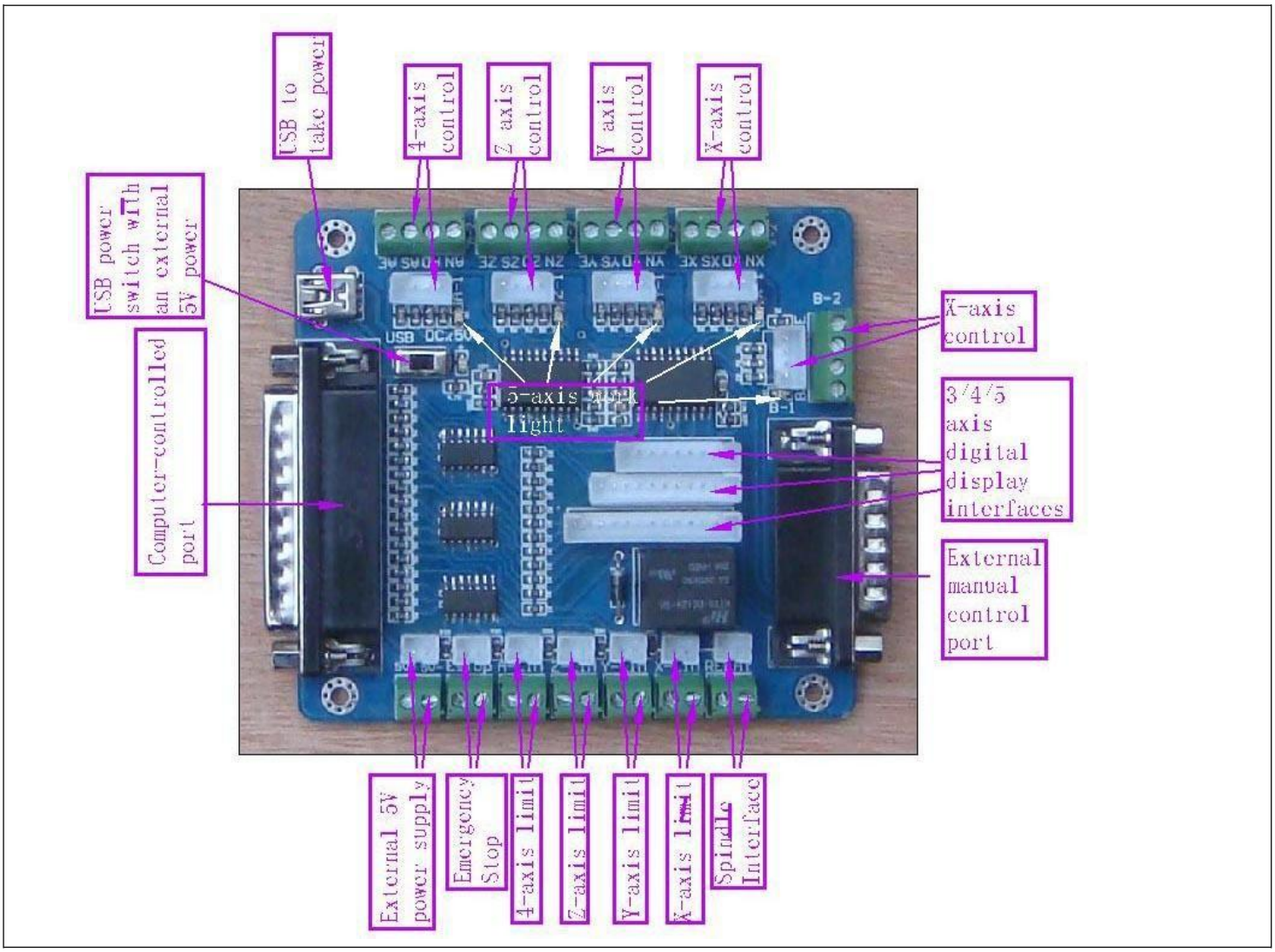


Waveform and timing

Power output interface function



Interface, detailed drawing marked



In the test machine, note the following before
1, note that using the 5V power supply
2, determine the stepper driver works (Model0)
3, to determine the drive wiring step

Second, "the definition of the pin

1 "is defined as parallel control :

PIN9	PIN1	PIN2	PIN14	PIN16	PIN3	PIN7	PIN8	PIN6	PIN5	PIN4	PIN17
Spindle motor	enabled	X step	X dir	Y step	Y dir	Z step	Z dir	A step	A dir	B step	B dir

2 "hand control is defined as follows 1 ~ PIN15computer-15P interfaces and benchmarks within the Digital ID)

P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
B step	B dir	A dir	Z step	Y step	X step	X dir	enabled	5V/VDD	5V/GND	A step	Z dir	Y dir	enabled	enabled

3 "The limit is defined as 1 to 5

X -Limit	Y- Limit	Z- Limit	A- Limit	急停
PLT-P10	PLT-P11	PLT-P12	PLT-P13	PLT-P15

5V 1A power supply, please take more than switching power supplies, power input received indicated on the map interface

Spindle motor control is controlled via the parallel port PIN1. Spindle motor voltage must comply with the supply voltage range.

Three "MACH software to use

Figure 1

Figure 1, open the MACH3 software, then select OK now mach3MILL

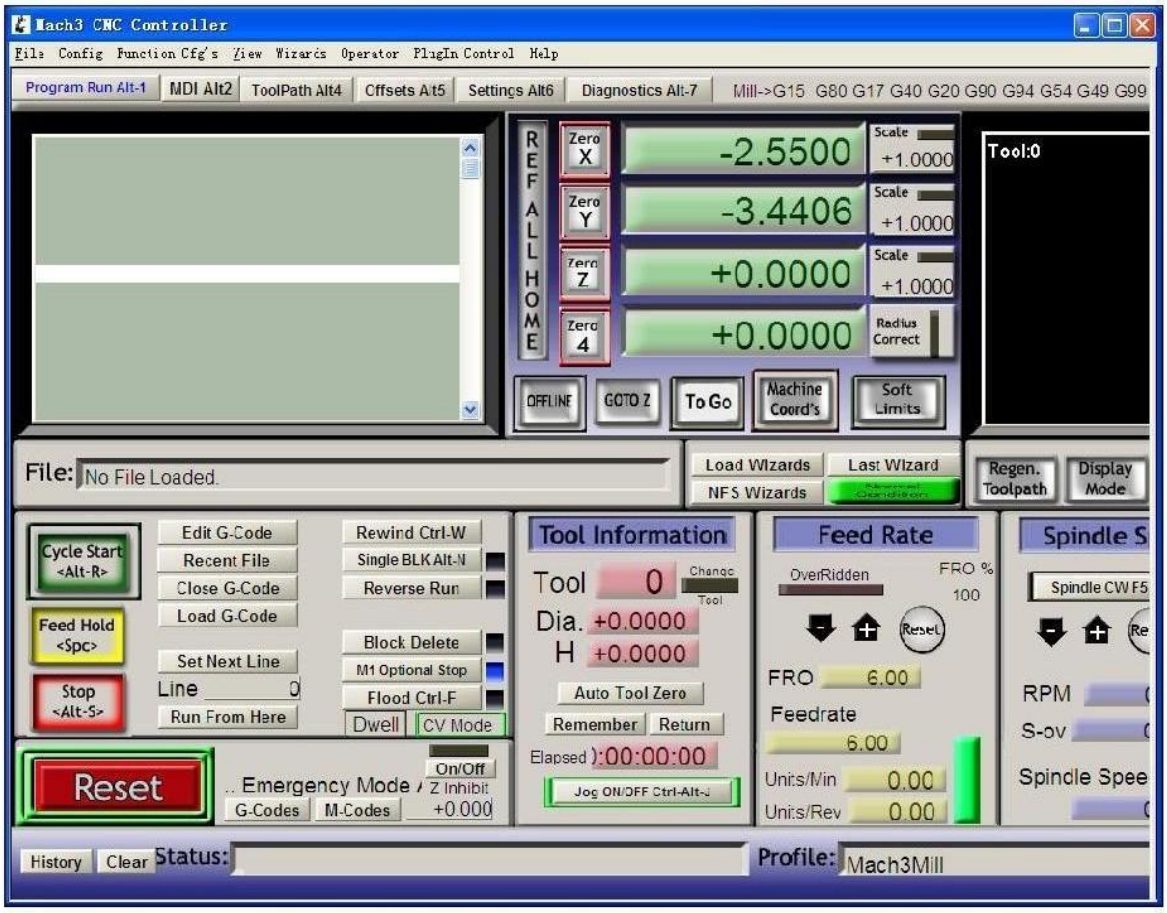


Figure 2

MACH3 open the interface shown in Figure 2, the action of commonly used button above, here we configure the MACH software.

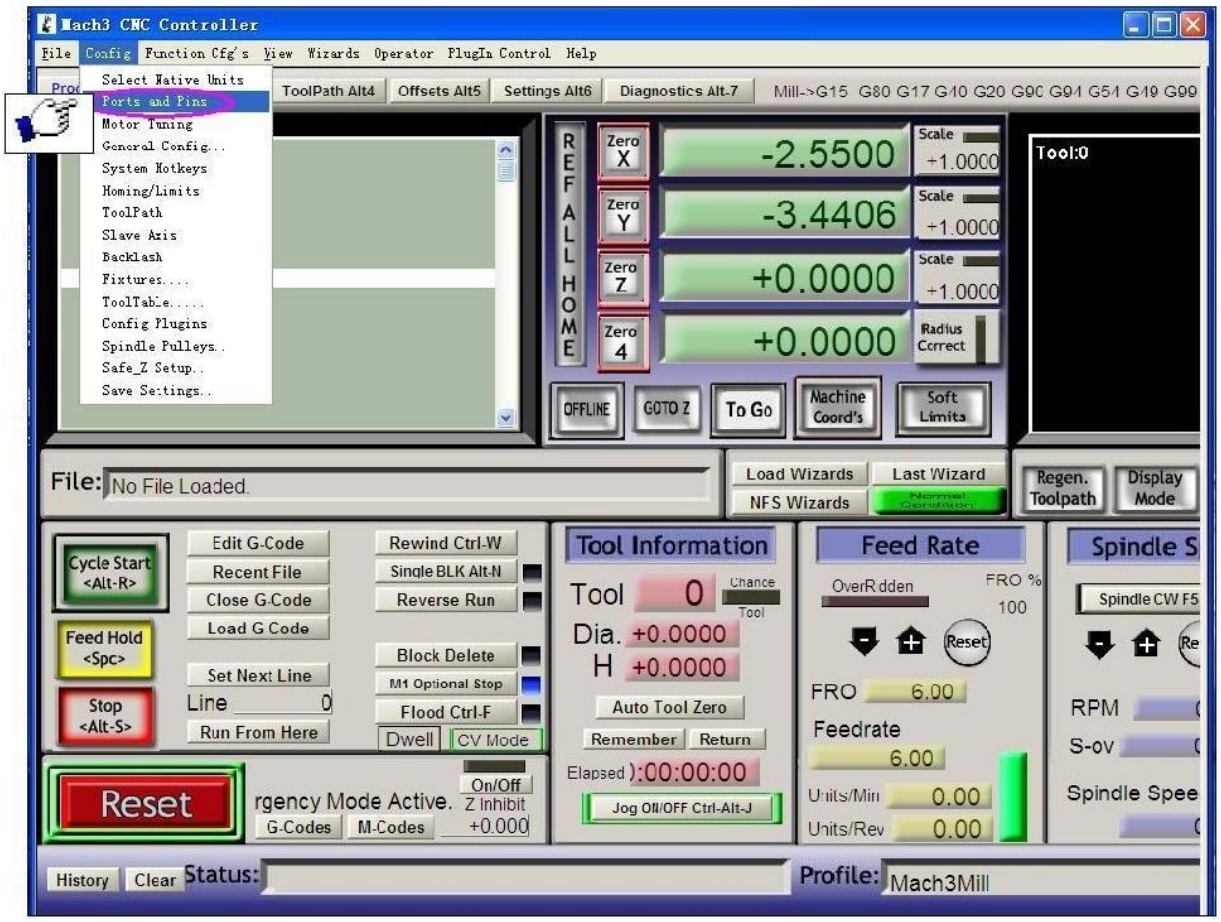


Figure 3

Figure 3, open the config menu PORT & PIN menu

Figure 4

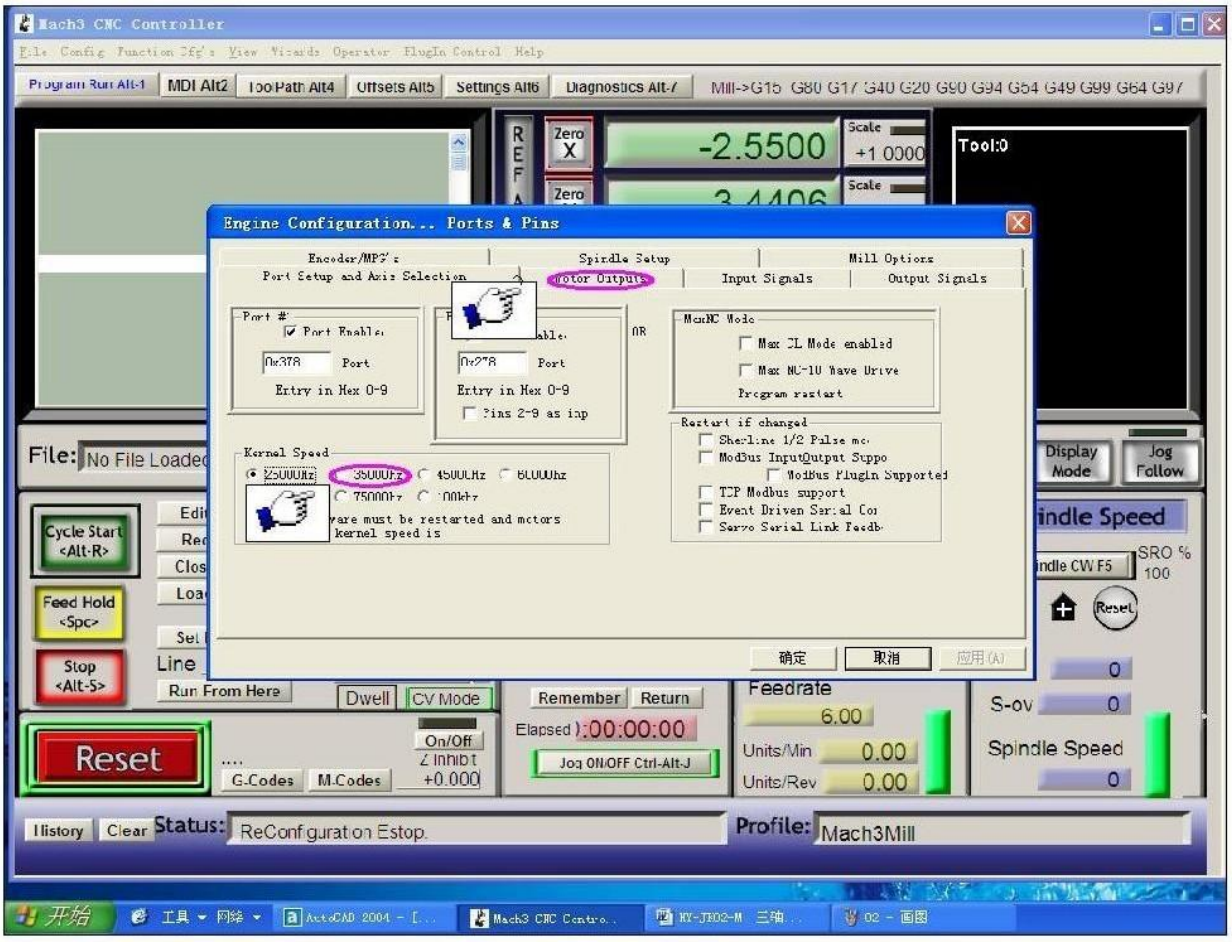


Figure 4

Place on lap 1 setting can set the fundamental frequency, the parameters of the motor rotation speed. After 2 laps to set the place selected, the configuration pin definitions, as shown in Figure 5

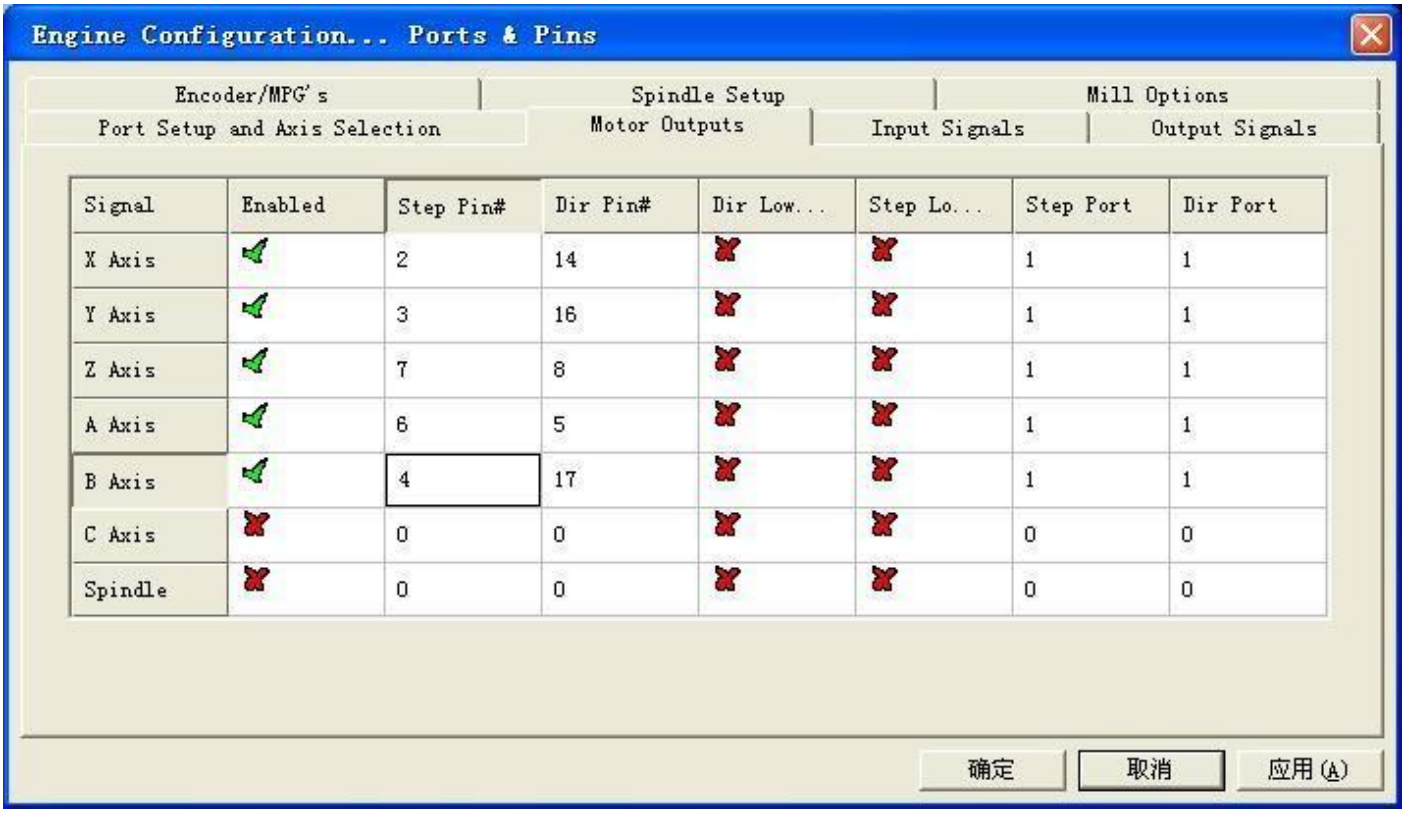


Figure 5

According to the definition of the board parallel port, follow the map on the circle to indicate the definition of modification of the software settings

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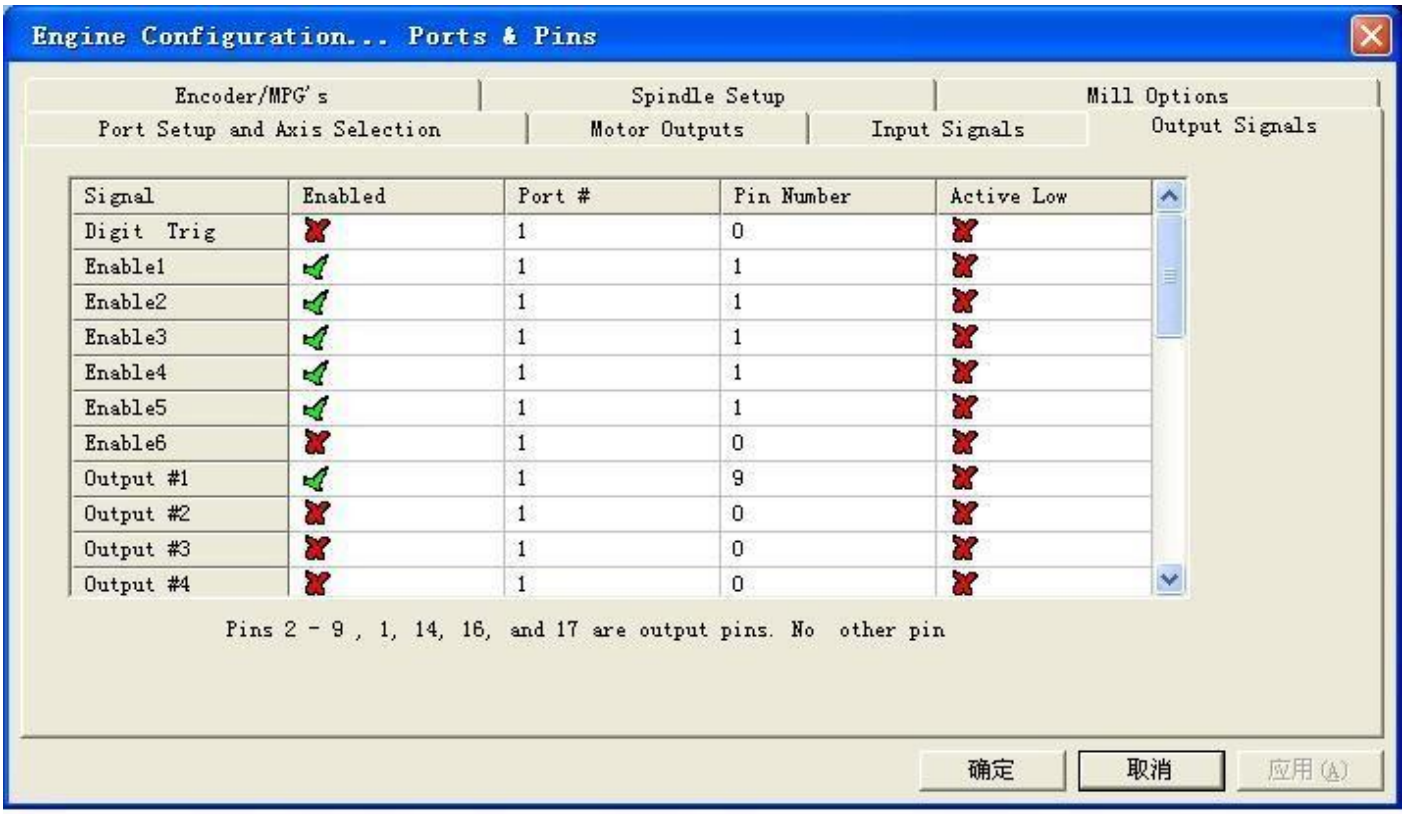
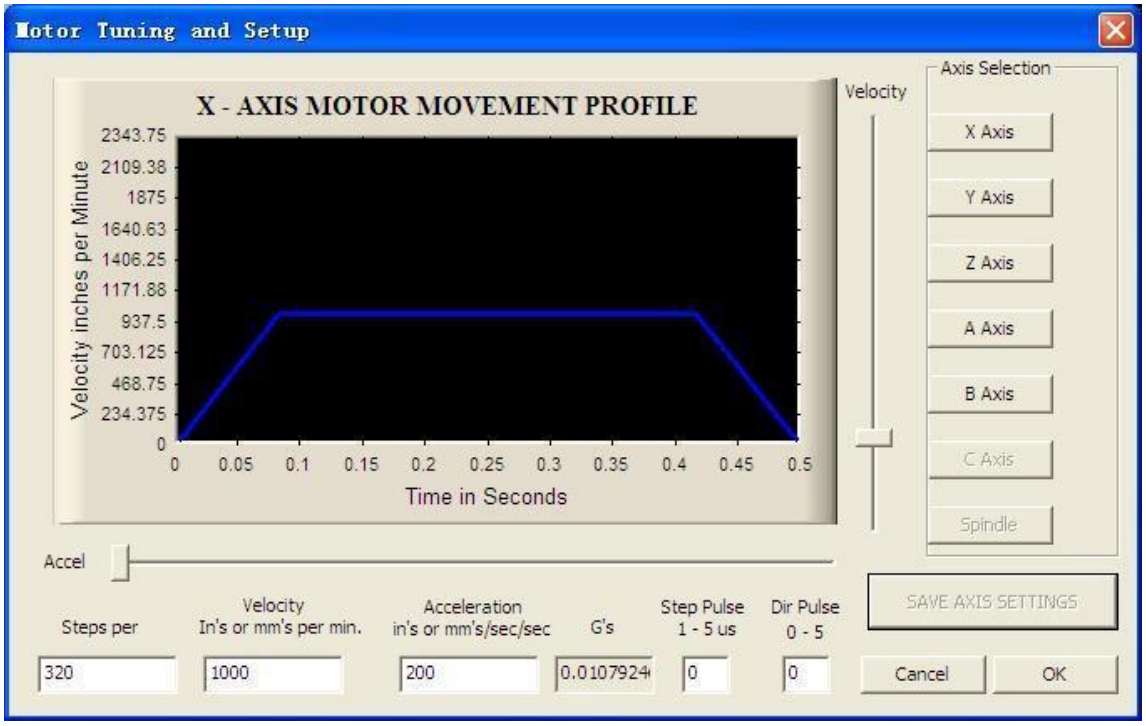


Figure 6

Then select the output signals in part, as shown in Figure 6, according to insiders of the settings, set the corresponding entry



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Motor reference set parameters, MACH3 software manual calculation in detail and description

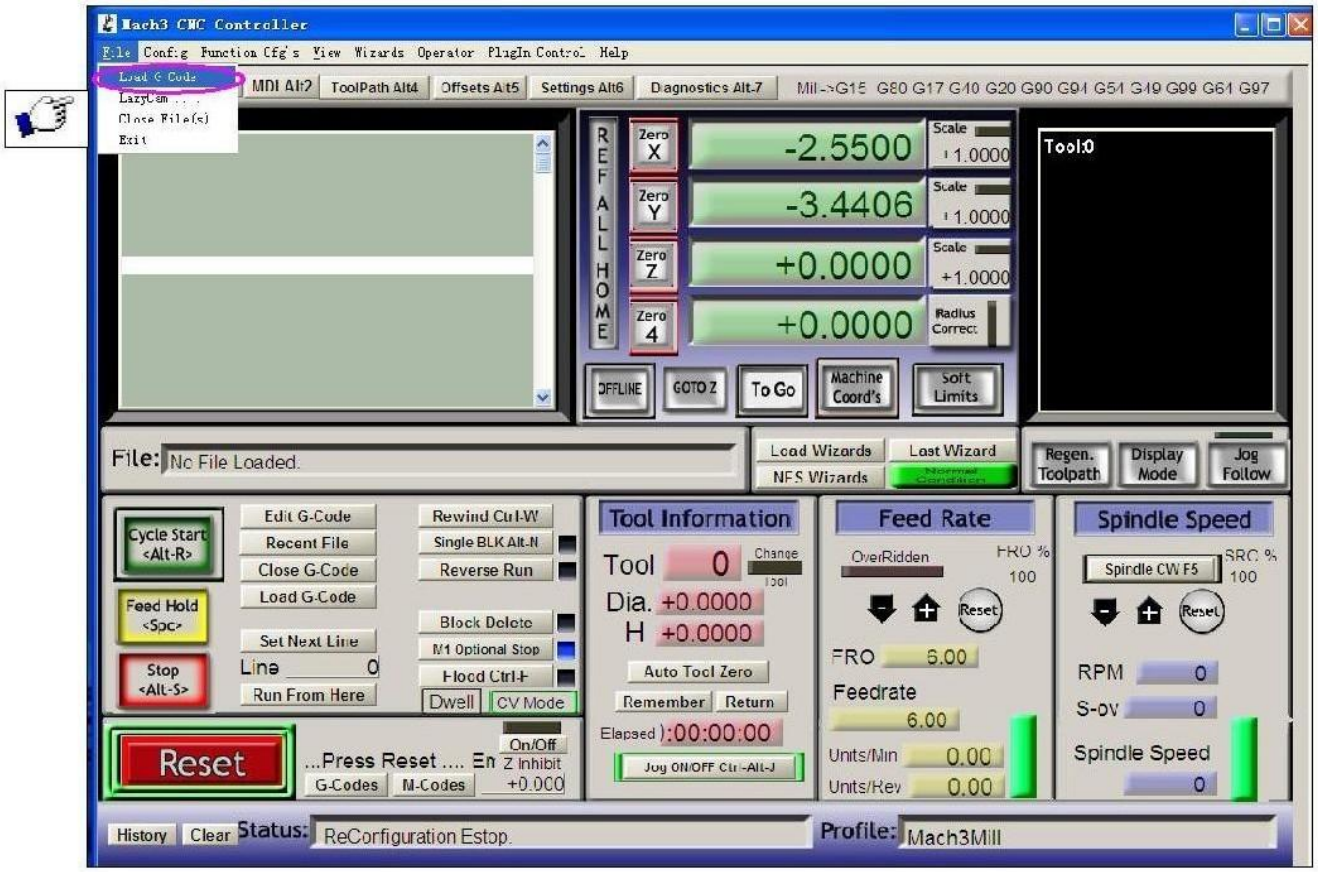

Figure 7

Ok all set, you can open the need to run the G code, as shown in Figure 7

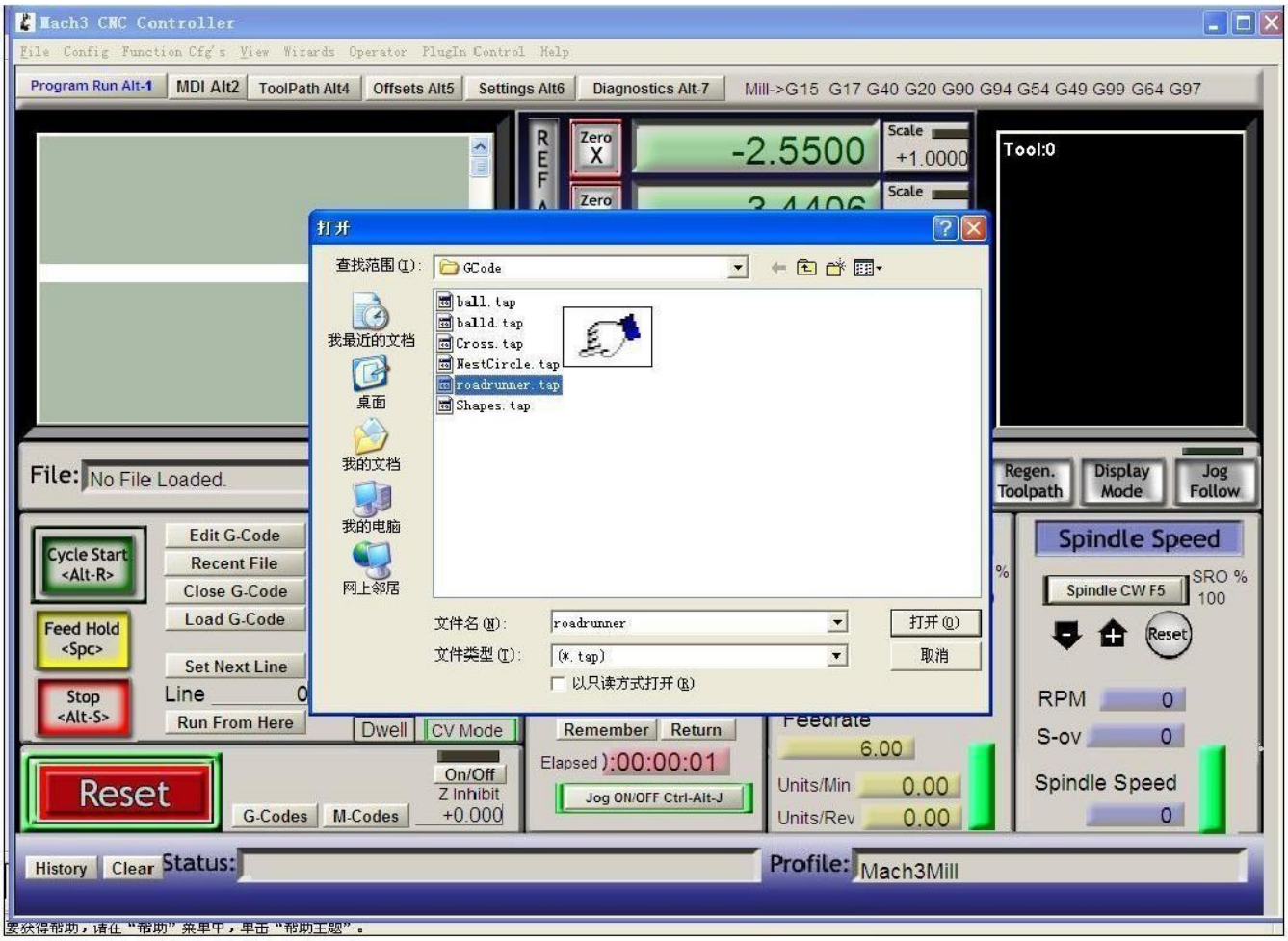
Mach3 CNC Controller
File Config Function Cfg's View Wizards Operator PlugIn Control Help
Program Run Alt-1
MDI Alt2
ToolPath Alt4
Offsets Alt5
Settings Alt6
Diagnostics Alt-7
Mill->G15 G17 G40 G20 G90 G94 G54 G49 G99 G64 G97
Zero X
-2.5500
Scale
+1.0000
Tool:0
打开
查找范围(I):
GCode
ball.tap
balld.tap
Cross.tap
NestCircle.tap
roadrunner.tap
Shapes.tap
我最近的文档
桌面
我的文档
我的电脑
网上邻居
文件名(N):
roadrunner
打开(O)
文件类型(T):
(*.tap)
取消
以只读方式打开(R)
File: No File Loaded.
Regen. Toolpath
Display Mode
Jog Follow
Cycle Start <Alt-R>
Feed Hold <Spc>
Stop <Alt-S>
Edit G-Code
Recent File
Close G-Code
Load G-Code
Set Next Line
Line
Run From Here
Dwell
CV Mode
Remember
Return
Elapsed):00:00:01
Jog ON/OFF Ctrl-Alt-J
Feedrate
6.00
Units/Min 0.00
Units/Rev 0.00
Spindle Speed
Spindle CW F5
SRO % 100
Reset
RPM 0
S-ov 0
Spindle Speed 0
Reset
G-Codes
M-Codes
On/Off
Z Inhibit
+0.000
History
Clear
Status:
Profile: Mach3Mill
要获得帮助，请在“帮助”菜单中，单击“帮助主题”。

Figure 8

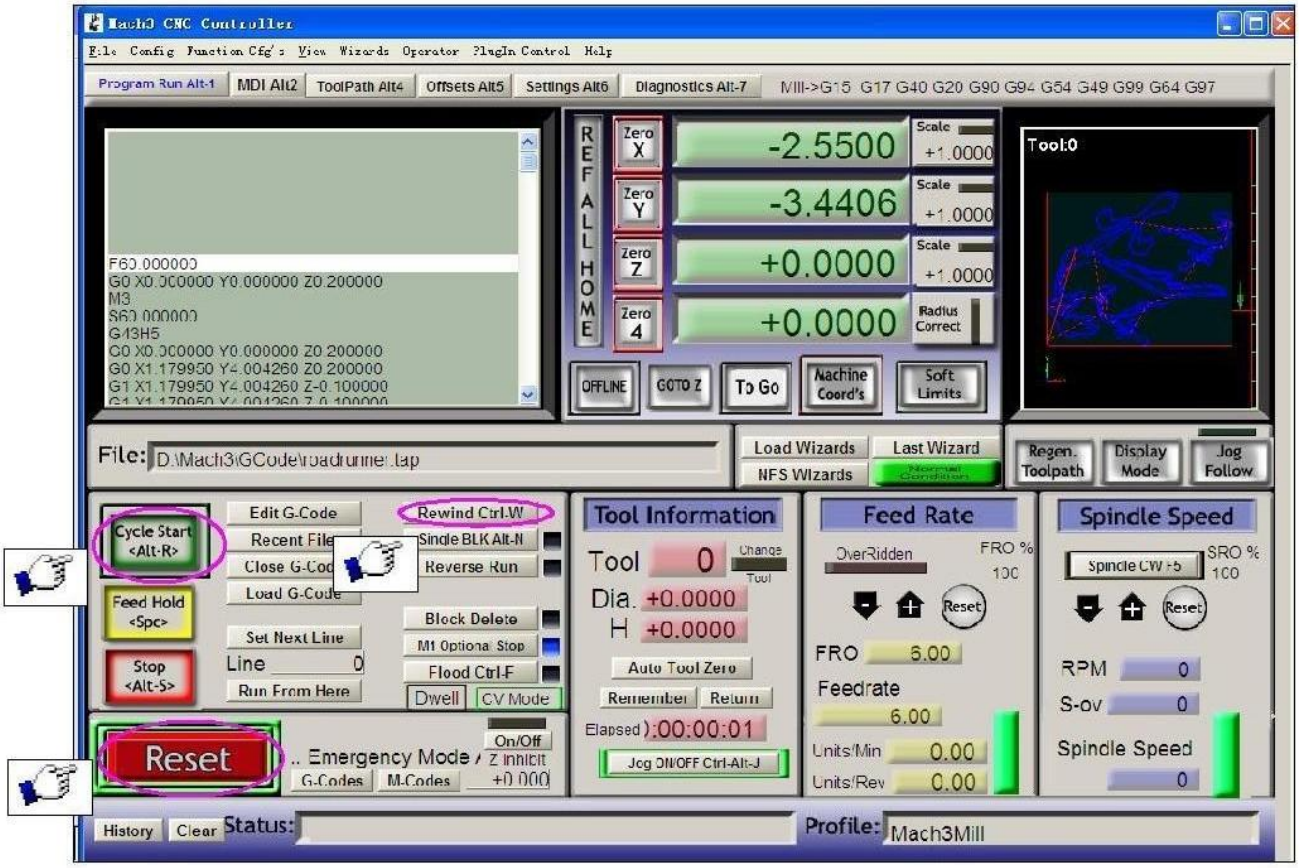

Figure 9

Open the G code, RESET can be seen flashing red, you can use mouse click the RESET make it stop flashing, then you can press the ring 2 position CYCLESTART run.