

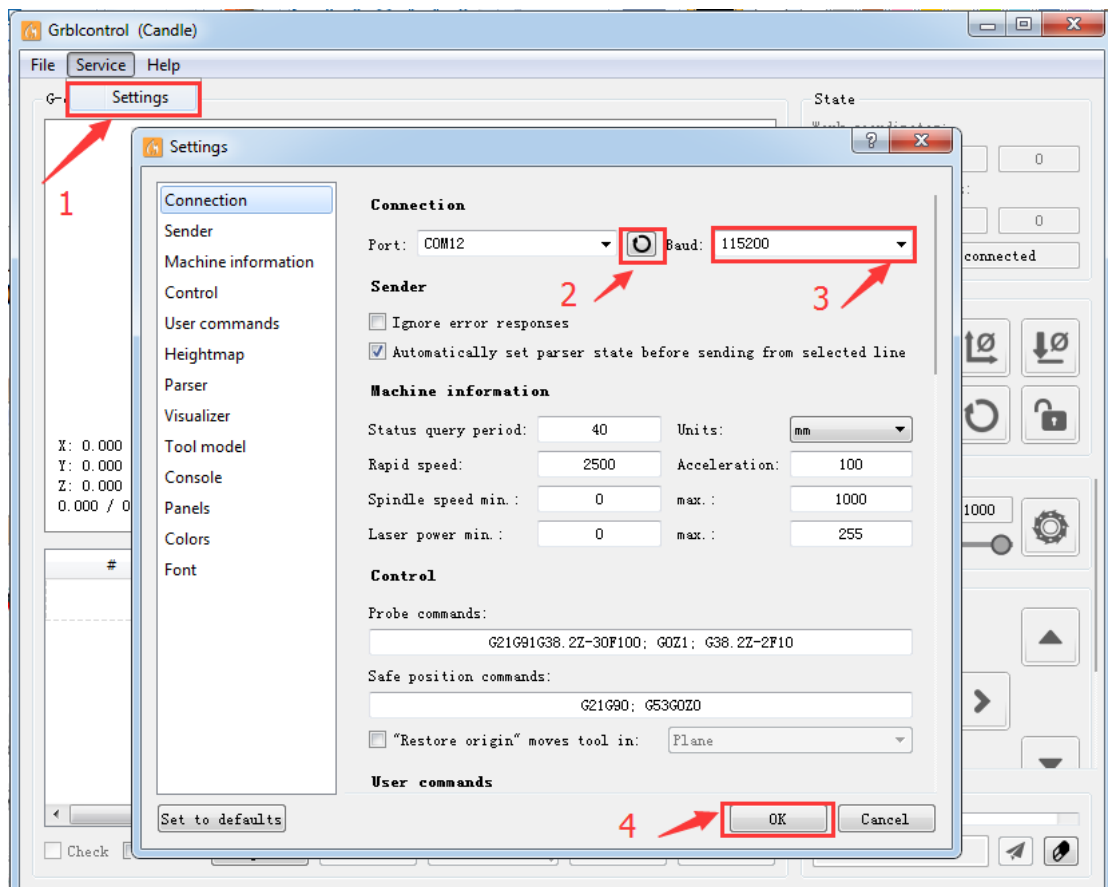
## 1. running software:

platforms	8/27/2018 4:26 PM	File folder	
translations	8/27/2018 4:26 PM	File folder	
d3dcompiler_47.dll	10/13/2015 9:46 AM	Application extens...	3,386 KB
<b>Grblcontrol (Candle)</b>	12/28/2016 9:33 PM	Application	791 KB
icudt54.dll	3/31/2015 3:56 PM	Application extens...	24,788 KB
icuin54.dll	3/31/2015 3:56 PM	Application extens...	3,829 KB
icuuc54.dll	3/31/2015 3:56 PM	Application extens...	2,127 KB
libEGL.dll	10/13/2015 9:46 AM	Application extens...	10 KB
libgcc_s_dw2-1.dll	12/21/2014 9:07 PM	Application extens...	118 KB
libGLESV2.dll	10/13/2015 9:46 AM	Application extens...	1,564 KB
libstdc++-6.dll	12/21/2014 9:07 PM	Application extens...	1.003 KB

## 2. Software Connect to controller:

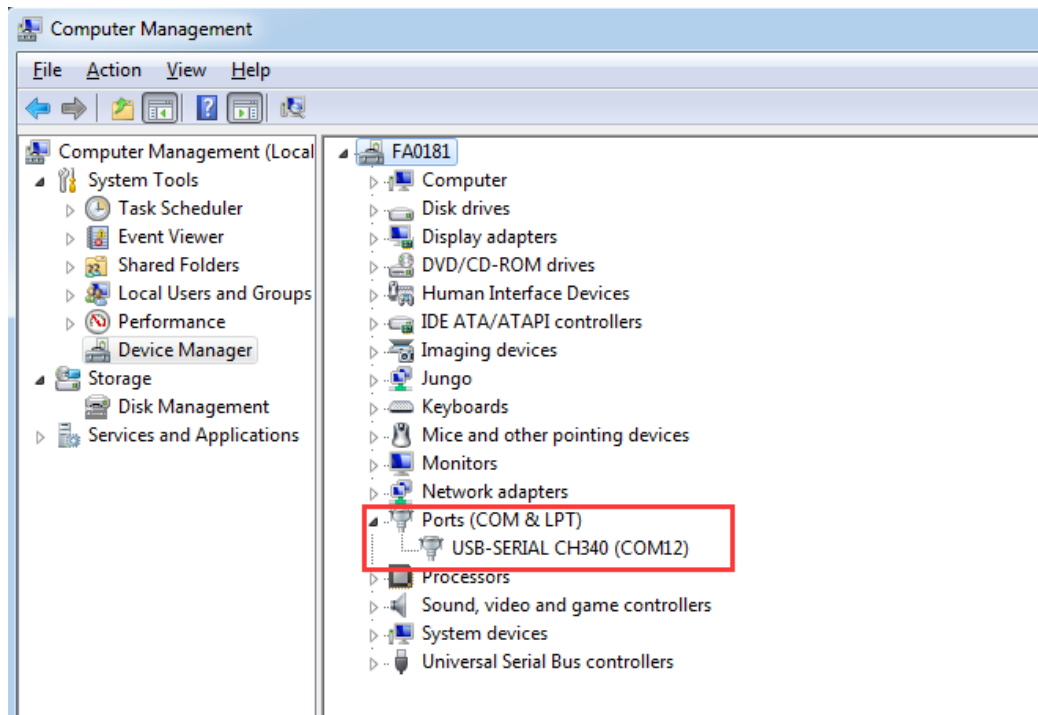
Operation need to set the port number and baud rate for the first time.

Click on the arrow 2 laps,the port number can be identified, if software can't identify the port number, select the port number .Click on the arrow 3 position, select the baud rate, baud rate to 115200. Click on the arrow 4 ok finish connection.



**NOTE:**

- 1> In front of the recognition of the com port, control card is connected to the computer USB port.
- 2> Driver installation and normal work, check the device manager, as shown in the figure below:



### 3. Software interface description:

3D preview interface, hold the left mouse button, can rotate Angle, scroll the mouse wheel, can be enlarged or reduced. If can't see anything, you need to change a computer support OpenGL2.0 graphics card.

Common operation button, the mouse icon on the above shows the specific

Coordinate Display

Motor Speed adjust

Manual operation interface

Open G code

Send G code

Command input box

Send command

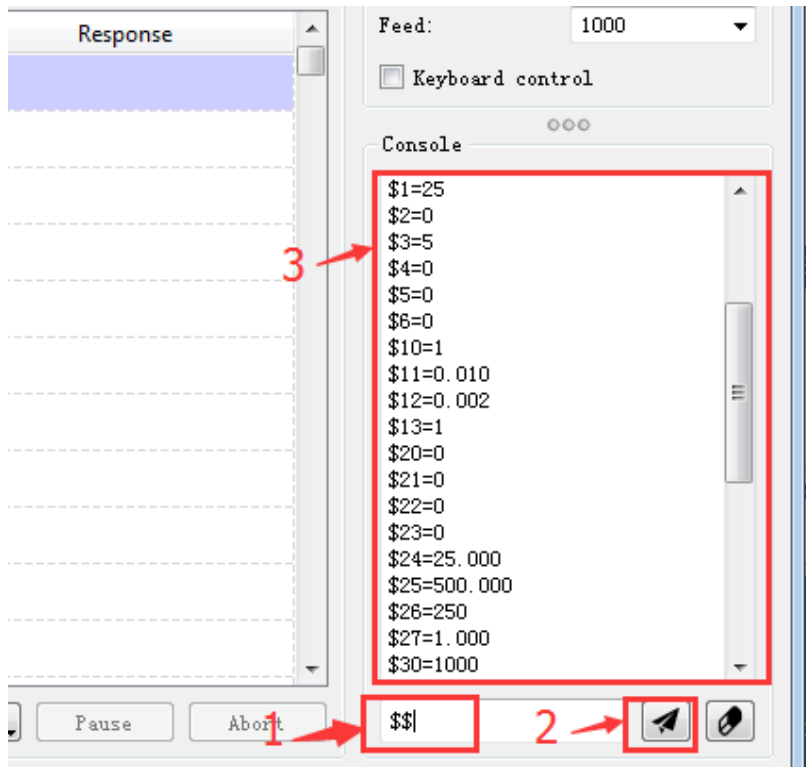
The screenshot shows the Sainsmart G-Code control software interface. The main window is titled 'sainsmart.nc - Gb1control (Candle)'. It features a 3D preview area on the left showing a 3D model of a part being machined. Below the 3D preview is a table of commands and their status. The right side of the interface contains various control panels including 'State' (Work coordinates, Machine coordinates, Status), 'Control' (Home, Jog, Lock, etc.), 'Spindle' (Speed, On/Off), 'Jog' (Directional buttons, Step, Feed), and 'Console' (Serial port error messages). At the bottom, there are buttons for 'Open', 'Reset', 'Send', 'Pause', and 'Abort'. The 'Open' and 'Send' buttons are highlighted with red dashed boxes and labeled 'Open G code' and 'Send G code' respectively. The 'Send' button is also labeled 'Send command'. The 'Jog' panel is labeled 'Manual operation interface'. The 'Spindle' panel is labeled 'Motor Speed adjust'. The 'Control' panel is labeled 'Common operation button, the mouse icon on the above shows the specific'. The 'State' panel is labeled 'Coordinate Display'. The 3D preview area is labeled '3D preview interface, hold the left mouse button, can rotate Angle, scroll the mouse wheel, can be enlarged or reduced. If can't see anything, you need to change a computer support OpenGL2.0 graphics card.'

#	Command	State	Response
1	G90	In queue	
2	G1 Z5 F500	In queue	
3	G1 X0 Y0	In queue	
4	M03 S1000	In queue	
5	G1 X9.95 Y9.1	In queue	
6	G1 Z-0.2 F200	In queue	
7	G1 X9.8 Y9.1	In queue	
8	G1 X9.6 Y9.3	In queue	
9	G1 X9.4 Y9.5	In queue	

### 4. Modify the parameters:

Controller default parameters are not necessarily suitable for your machine, need to modify the parameters, such as: step/mm, acceleration.

In the **[command input box]** where to enter **\$\$**, and click **[send command]**, you can get on-board GRBL firmware parameter settings. As shown below:



##### 5. Run G code for processing:

- 1> Click **[open]**, Select the G code to run.
- 2> Click on the manual operation panel, move the spindle to the starting. Point of the engraving, so that the tool and the workpiece just touch.
- 3> Click **[Zero XY]** **[Zero Z]** Clear the XYZ axis coordinate.
- 4> Click **[Send]** running G code.

