Updating Firmware on GCC Engravers

1. Download a copy of the firmware upgrader on your PC. The latest version is the firmware Upgrader 3 (Upload3.exe \ Uploader_V3.01.zip).
   Link: https://jorlink.sharefile.com/d-s08cea59882ff43a7af80e31aefa76031

2. Locate on your PC the firmware that you will be sending to the engraver.
   Firmware should have been provided by your distributor or GCC.
   Unzipped Example: SpiritLS_2.14-02 **or** SpiritLS_2.14-02.pkg
   Zipped Example: L_FM_Spirit_GX_1_15_04.zip

3. Setup machine to receive new firmware using the chart below. These buttons will have to be pressed while turning on the machine. Be sure to keep the button pressed until you see "Boot loader in XXXXX port" on the control panel.

Model	Common USB / USB Print Support / Vista USB	Parallel	Serial	GCC USB
Spirit & X series / C180II / T500 / MercuryII & MercuryIII series	F1 key + Power on	F2 key + Power on	N/A	F3 key + Power on
C180	AF up arrow + Power on	Auto focus + Power on	N/A	AF down arrow + Power on
Mercury / Venus	N/A	Resume + Power on	Del file + Power on	N/A

4. Open the firmware uploader software.
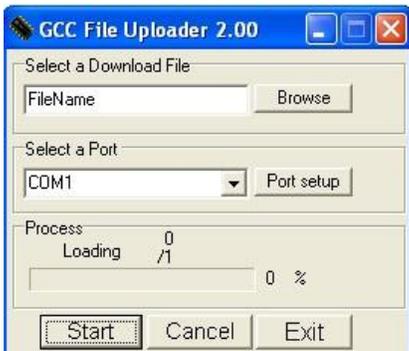
5. Choose the firmware file that you will send to the engraver.
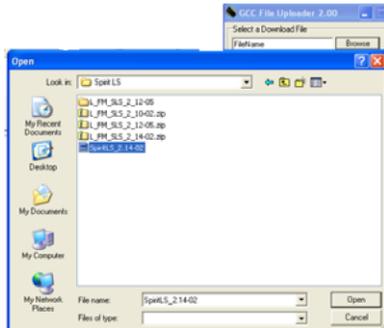
6. Choose the port you will use to upload the firmware.

Common USB / Vista USB /   GCC USB
USB Printing Support
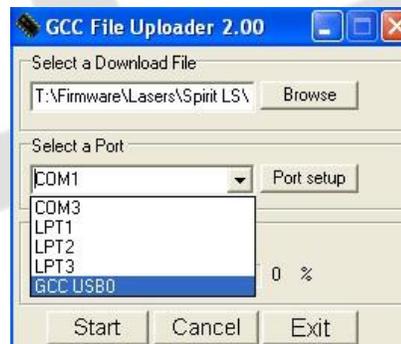
When using LPT ports select LPT1.

7. Before pressing the start button double check that the engraver is in the same
    port setting as the uploader and that you have selected the proper firmware.

8. Press **Start**.

The progress bar should reach 100% rather quickly

You will see status updates on the control panel of the machine. When the update is complete the machine will restart.

9. Mercury I / Venus I / Jupiter users can end at this step. All model users continue with step 10.

10. Once the machine has restarted you will need to reset the user information, machine information, select your laser tube model, and set your USB mode.

11. Resetting User Info
    a. Select F4
    b. Press the down arrow once and press enter on the option "Machine Settings"
    c. Press the up arrow once and press enter on the option "Reset"
    d. User Reset should be the first option and selected by default. Press enter to reset user information.
    e. After pressing enter the first time you will be taken to a second screen that will ask you to confirm the reset by pressing enter again.

12. Resetting Machine Info
    a. Select F4
    b. Press the down arrow once and press enter on the option "Machine Settings"
    c. Press the up arrow once and press enter on the option "Reset"
    d. Press the down arrow once and press enter to select System Reset
    e. After pressing enter the first time you will be taken to a second screen that will ask you to confirm the reset by pressing enter again.

13. Setting your laser tube model.

a. Determine which type of laser is installed in your machine. This information can be found on the back of the engraver.

Next to model number you will see your model with a dash then the wattage number followed by a letter. You need to know this information.

b. Use the chart below to determine how to enter into the laser tube model area of the firmware based upon your model.

Laser tube model				
Model	Gaia	Explorer / Mercury II	Spirit Series / Mercury III / X Series / C180II / T500	C180
Button	Down arrow	Up arrow	Down arrow	Down arrow

Hold this button down while starting the machine.

c. The control panel screen should look very similar to this:
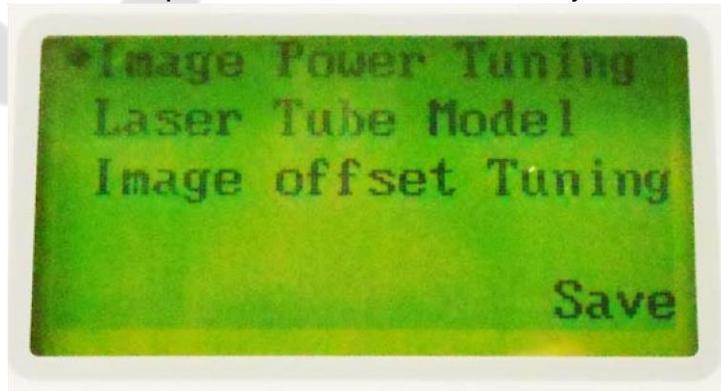
d. Press the down arrow once then press enter to select "Laser Tube Model"

e. Any machine with dual laser tubes will either have a CO2/Fiber laser source option **OR** the option to select the type of CO2 laser source type. The next screen should look very similar to this:
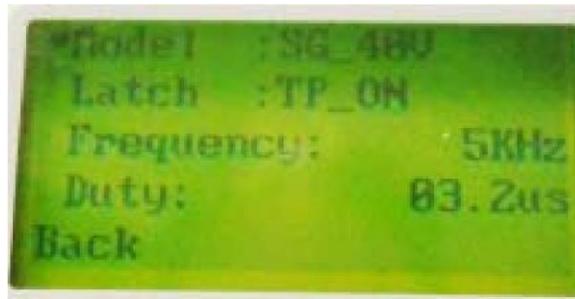
Use the left and right arrows to change the model to match your machine.

NOTE: Any model ending in the designation V / T / Ti should have the tickle pulse latch set to on. This is normally the default setting with new firmware. If you must turn the "Latch" on you can use the down arrow key to get to the option and the left and right arrows to change the option.
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f.   Press F1 to go back one page. This screen is the same as step c.
g.   Press F4 to save your settings.
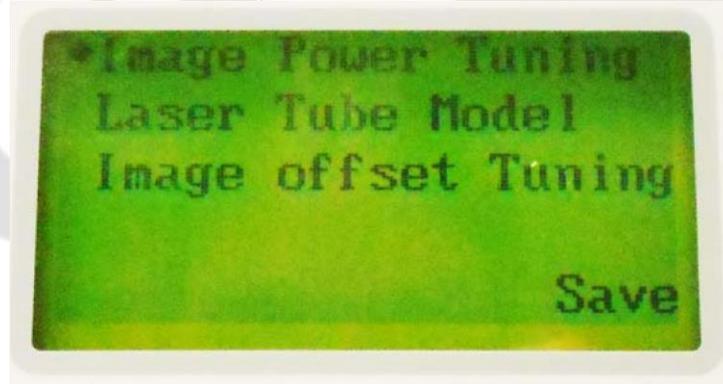
h.   The machine will restart.
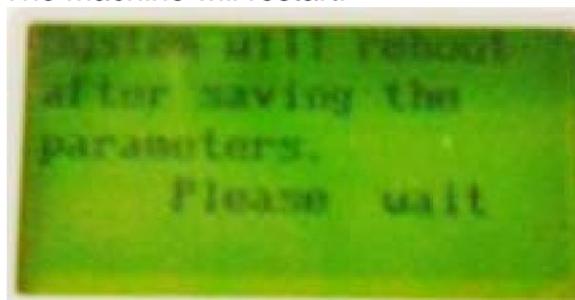
14. Selecting USB mode. (If you do not use USB skip this section) [FOR OLDER MACHINES]

    a. Press F4
    b. Press the down arrow once and press enter on the option "Machine Settings"
    c. Press the up arrow four times to get to USB setup wizard then press enter.
    d. Use the left and right arrow keys to select GCC USB or Common USB.
    e. Press F4 to save your settings.
    f. Press F1 two times
    g. You should now be back into the start screen.

NOTE: Most 32bit PCs will use GCC USB while all 64bit PCs must use USB printing support / Common USB / VISTA USB. If your machine doesn't have this option available, then it's already defaulted to 64bit mode (if the machine is newer than 2013) or defaulted to 32bit mode (if the machine is older than 2013).

JORLINK WARNING

- Older Equipment- with some old style Main Boards, if the machine is having memory or intermittent problems flashing the firmware could cause it to fail permanently.
- Jorlink recommends that a certified technician help you the first time. If your equipment is under warranty you can schedule a FOC online call. If equipment is out of warranty without a service contract, click here or visit our SUPPORT Tab to learn about our service options.
- Create HelpDesk Support Ticket (click here)- let us know the issues your equipment is having before flashing the firmware, sometimes resetting the USER or MCB Defaults can help.