



Firmware upgrading/model changing on GCC cutting plotter main board

There are few different conditions that you would like to update the firmware onto a main board.

- a. Update firmware version on a working fine unit.
- b. Change the firmware model on a 2in1 main board. (Ex: from Jaguar IV changed to Puma III)
- c. Change the firmware model in size onto a 2in1 main board. (Ex: from Jaguar IV 61 change to Jaguar IV 132)

Due to mechanical tolerance, each unit has different volume on parameters of “Scaling” & “AAS Offset” (models with AAS sensor). These 2 parameters are loaded with the firmware on the main board.

In condition “a”

The parameters would be kept after update the firmware version of each model as below chat. You don't have to re-insert these parameters.

Model	Firmware Version
Bengal	V2.01-02 above
Jaguar II	V2.08-01 above
Jaguar IV	V2.08-01 above
Vogue	V2.08-01 above
Puma III	V2.08-01 above
Puma III DX	V2.08-01 above
Sable	V2.03-04 above
Expert 24	V2.03-04 above
Expert 24 LX	V2.03-04 above
Expert Pro	V2.08-01 above



In above condition “b” & “c”, these 2 parameters will be the reset. You will have to re-adjust the volume of these 2 parameters after you upload the firmware. After firmware update is done, re-adjust these parameters manually.



On models with LCM control panel



On models without LCM control panel, use VLCD tool software

VLCD3 [Close]

GCC USB0 [v] **Connect** **Model Pumall-60S**
Version 1.31 01

Setting **Adjust**

STEP1
Draw a square for testing
Length (X) mm
Width (Y) mm **Scaling Test**

STEP2
Measure and enter the actual output
Length (X) mm
Width (Y) mm **Calibrate**

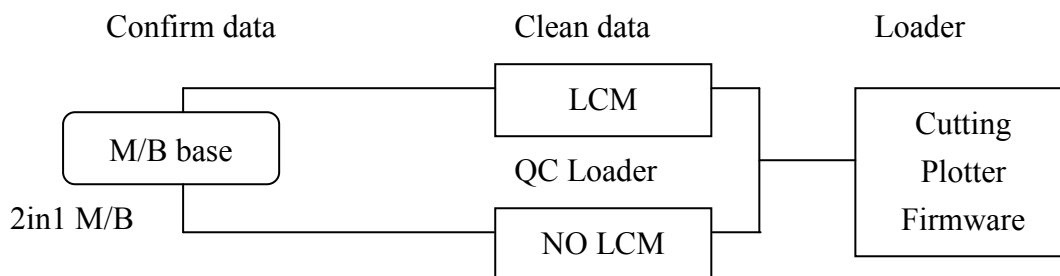
AASII Offset Function
AAS X Offset 0.000 Adjust mm
AAS Y Offset 0.000 Adjust mm
AASII Offset Update



In condition “b”--- Changing firmware model on a 2in1 main board

1. QC Loader file choose rule

M/B base	LCM	QC Loader file		MEMO
		LCM	NO LCM	
Puma II, Expert 24/LX, Bengal, Sable			V	
PumaIplus/Puma III, Expert Pro	V	V		
Jaguar II/III/IV, Vogue	V	V		



2. Firmware rework step

*** Please check the firmware on the M/B first to verify if the loded firmware supports control panel or not before operation. ***

2.1 Reset Main Board

After confirm M/B firmware, select QC loader file (QC2in1-LCM.txt) if it is LCM version. Loading this QC loader file will erase the M/B data.

If the M/B firmware is not for LCM (Ex. Puma II), please select QC Loader (QC2in1-NOLCM.txt” to erase the data in M/B.

NOTE: If the data is not cleared will cause M/B updating problem, please refer to QC Loader file choose rule

2.2

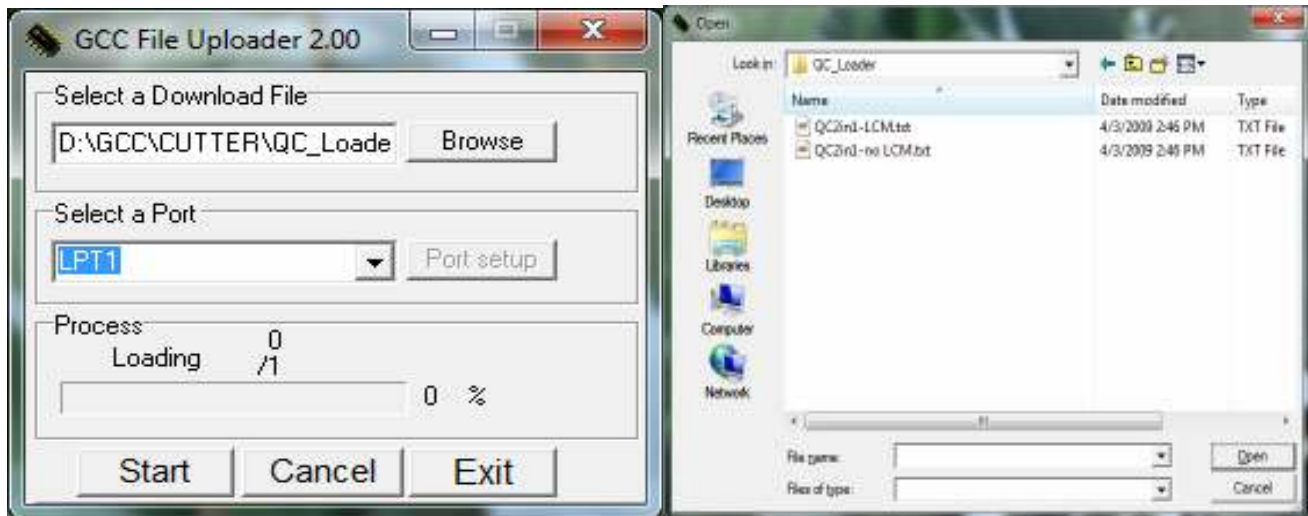
For example: LCM model firmware change to NO LCM model firmware

Connect M/B with PC by USB, turn on power switch select to USB loading function. Run “Uploader 2.0” click “Select a Download File” then select QC2in1-LCM.txt (**Please make sure the file is LCM**), select a Port choose USB to run the .txt file. When the erasing process finished, select what the model firmware you use. Then execute “Uploader 2.0”.



Uploader 2.0

QC Loader files



2 in 1 M/B



LCM TYPE

NO LCM TYPE





In Condition “c” ---- Change firmware model size

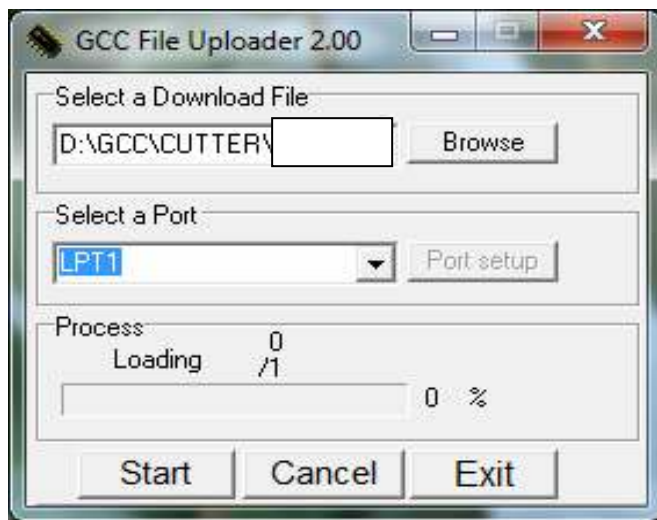
If the firmware model loaded on the MB is the same, but size is different. (Ex: Jaguar IV 61 change to Jaguar IV 132) Update the firmware would cause the parameter lost.

Solution:

After update the firmware, upload the file “LCM_PA_ERASE” or “NO_LCM_PA_ERASE” again to the M/B.

NOTE: If the parameter is not erased with these file, the plotter will work with problems. Insert the parameter manually can not solve it.

Uploader 2.0



Parameter erase files

Name	Size
LCM_PA_ERASE	20
NO_LCM_PA_ERASE	20