

#### DATE: 05/05/2016 PAGES: 5 R

FILE NAME: OQD03202.doc REVISION : B

TITLE: How to flash the firmware to Melzi mother board through USB cable? INITIATE BY: Manolo Chen APPROVED BY: Gary Chen

### 1.0 Purpose

The crashed Duplicator i3 mother board need to flash the firmware to bring the board back to life.

### 2.0 Scope

This document establishes the specifications required for Duplicator i3

### 3.0 Tools required.

USB A to B cable

### 4.0 Flashing procedure

### 4.1 Install the arduino-1.0.5-r2-windows.

Follow the steps next and next to finish installation. This program would allow you to write Marlin firmware to the board.  $\ .$ 



4.2 Decompress the file Marlin\_v1.

🗎 Marlin-Marlin_v1	Down load
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### 4.3 Open the file, / Marlin-Marlin\_v1/marlin.ino



4.4. Copy the file Sangino( /Marlinmarlin\_v1/arduinoAddons/arduino\_1.x.x/hardware/Sanguino) to C:/Program Files(x86)/arduino/hardware/Sanguino

Carlow W « Arduine	oAddons → Arduino_1.x.x → ha	ardware 🕨 👻 🎸
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4.5 Re-start the Arduino program.

4.6 Navigate to TOOL—BOARD--Choose the board "Melzi1284P 16mhz" board.

Tools Help	
Tools Help Auto Format Ctrl+T Archive Sketch Fix Encoding & Reload Serial Monitor Ctrl+Shift+M Board Serial Port Programmer Burn Bootloader	Arduino Uno Arduino Duemilanove w/ ATmega328 Arduino Diecimila or Duemilanove w/ ATmega168 Arduino Nano w/ ATmega328 Arduino Nano w/ ATmega168 Arduino Mega 2560 or Mega ADK Arduino Mega (ATmega1280) Arduino Leonardo Arduino Esplora Arduino Esplora Arduino Micro Arduino Mini w/ ATmega328 Arduino Mini w/ ATmega168 Arduino Ethernet Arduino Fio Arduino BT w/ ATmega168 LilyPad Arduino USB LilyPad Arduino USB
Mélzi 12	LilyPad Arduino w/ ATmega328 LilyPad Arduino w/ ATmega168 Arduino Pro or Pro Mini (5V, 16 MHz) w/ ATmega328 Arduino Pro or Pro Mini (5V, 16 MHz) w/ ATmega168 Arduino Pro or Pro Mini (3.3V, 8 MHz) w/ ATmega168 Arduino Pro or Pro Mini (3.3V, 8 MHz) w/ ATmega168 Arduino NG or older w/ ATmega168 Arduino NG or older w/ ATmega168 Arduino NG or older w/ ATmega168 Arduino Robot Control Arduino Robot Motor Melzi 1284p 15mhz

# 4.7 Choose AVR ISP. Tools—Programmer—AVR ISP

90 E E	Auto Format	Ctrl+T		2
sketch_aug25a	Archive Sketch Fix Encoding & Reload			
	Serial Monitor	Ctrl+Shift+M		^
	Board	•		
	Serial Port	•		
	Programmer	•	۲	AVR ISP
	Burn Bootloader			AVRISP mkII
				USBtinyISP USBasp

## 4.8 Start the printer and link the printer with the computer by USB cable.

# 4.9 Connect the printer with the computer and find the right port.

File Edit Sketch To	ools Help	
Sketch_aug25a	Auto Format Archive Sketch Fix Encoding & Reload Serial Monitor	Ctrl+T Ctrl+Shift+M
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💿 sketch\_may05a | Arduino 1.0.5-r2 File Edit Sketch Tools Help Auto Format Ctrl+T Archive Sketch sketch\_may05a Fix Encoding & Reload . Serial Monitor Ctrl+Shift+M Board ۶ Serial Port COM9 .

5.0 Unzip the File" Repetier-wanhao-i3V2.1\_REV.A";



5.1 Double click to open the "Retetiter.exe"

辑(E) 查看(V)	工具(T) 帮	助(H)	
包含到库中 🔻	共享 ▼ 所选文件夹包	刻录 括到库中。	新建文件夹
E I I 访问的位置		E	<ul> <li>Printer.h</li> <li>Repetier.cbp</li> <li>Repetier.depend</li> <li>Repetier.h</li> <li>Repetier</li> </ul>

# 5.2 There is one dialogue jump out, just click X to close it.

Moving	×
2	The file "Repetier.ino" needs to be inside a sketch folder named "Repetier". Create this folder, move the file, and continue? OK Cancel

## 5.3 Click the arrow bar to Upload firmware.



## 6.0 Revisions

- A Initiate: 25/8/15 by: Manolo
- B. Add repetitor firmware. 5/5/2016