



# 3D PRINTER

DATE: 27/06/05  
PAGES: 4

FILE NAME: OQD00004.doc  
REVISION : A

TITLE: How to flash the firmware  
Sailfish 7.7 to D4 series mother board?

INITIATE BY: Manolo Chen  
APPROVED BY: Gary Chen

## 1.0 Purpose

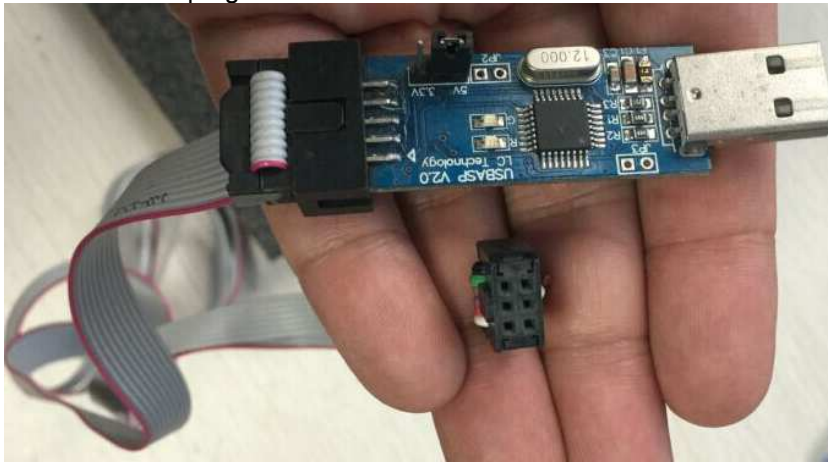
The crashed D4 series mother board need AVR programmer to flash the firmware to bring the board back to life.

## 2.0 Scope

This document establishes the specifications required for D4, D4X, D4S

## 3.0 Tools required.

One 6 Pin AVR programmer



## 4.0 Flashing procedure

### 4.1 Install the correct driver of AVR programmer onto your printer.

Please consult the store where you purchase the AVR programmer to get correct driver and install it.

Download the firmware batch process file from

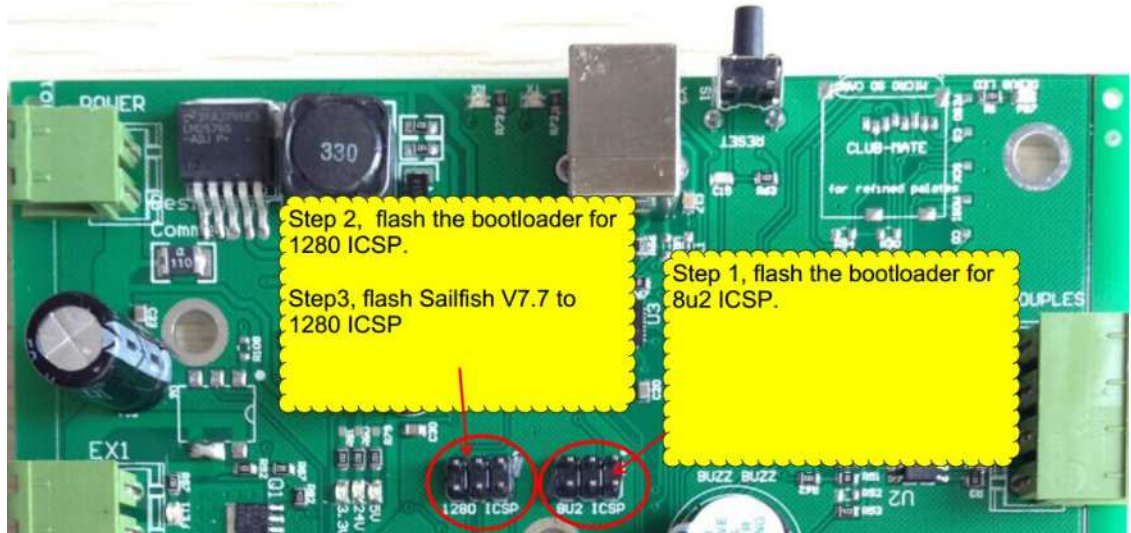
<http://www.wanhao3dprinter.com/FAQ/ShowArticle.asp?ArticleID=23>

### 4.2 Insert the USB A side to computer and the other 6 female Pin side to the mother board. 8u2 ICSP pins.

Please make sure the printer power is off, during inserting the 6 pin connector.

Make sure the ARROW mark is pointing to the white spot on the mother board(check pic below), then you get right connection.

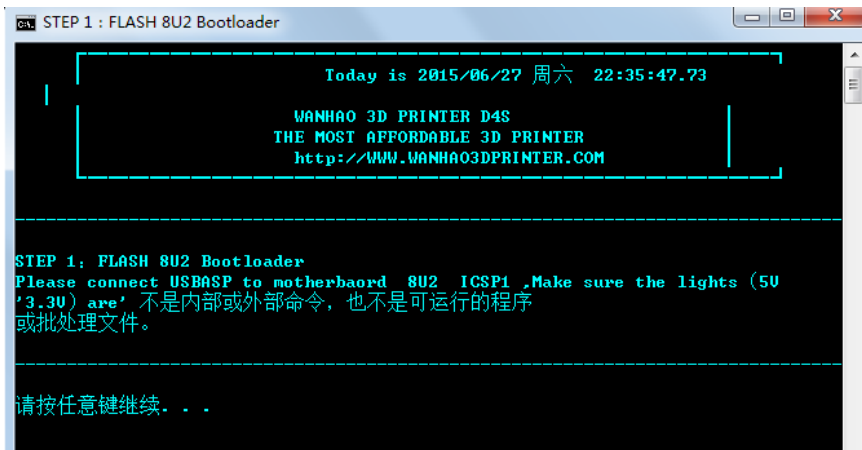




**4.3 Turn on the printer. Double click the batch processing file: STEP ONE FLASH 8U2 BTTLOADER**



Click any key board, the DOS will start flashing the bootloader for 8u2 ICSP



**4.4. After success installing the 8u2 bootloader. Plug off the 6 pin connector and replug into the 1280 ICSP.**

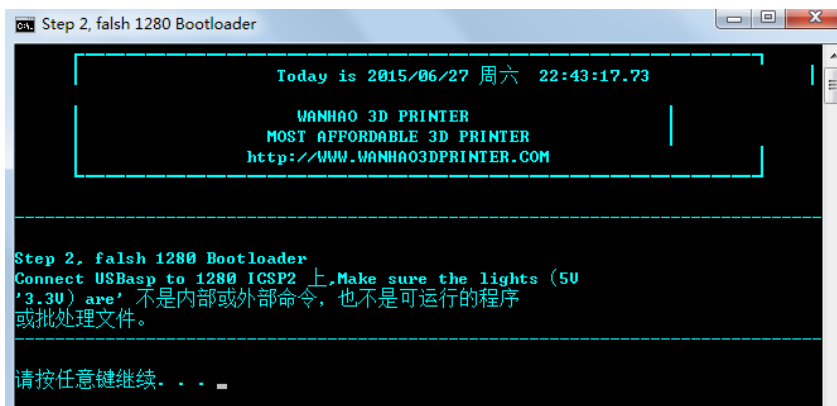
Please make sure the printer power is on, during inserting the 6 pin connector. Make sure the ARROW mark is pointing to the white spot on the mother board(check pic below), then you get right connection.



**4.5 Double click the batch processing file: STEP TWO FLASH 1280 BOOTLOADER**



Click any key board, the DOS will start flashing the bootloader for 1280 icsp.



**4.6 After success installing the 1280 bootloader. Double click the batch processing file: STEP THREE FLASH SAILFISH V7.7.**



Click any key board to start the Dos flashing.

```
STEP 3, FLASH THE SAILFISH V7.7

Today is 2015/06/27 周六 22:45:58.17

WANHAO 3D PRINTER
MOST AFFORDABLE 3D PRINTER
http://WWW.WANHAO3DPRINTER.COM

STEP 3, FLASH THE SAILFISH V7.7
READY TO FLASH THE SAILFISH V7.7, Connect USB (connect the USBasp ICSP 1280上, make sure the lights of 5V
'3.3V' 不是内部或外部命令, 也不是可运行的程序
或批处理文件。

请按任意键继续...
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4.7 If success, the printer would restart and make Beep sound. And the board back to life.

4.8 Video process, please check

<http://youtu.be/HNJyIb6EQsE>

## 5.0 Revisions

A – Initiate: 27/6/15 by: Manolo