# Titanjet uncoded function instruction

## Content:

1. Mainboard: support second coded series printhead, unify the stepping speed of 1.6m series, 1.8m series and 3.2m series printer, it means the FPGA version now is united for 93(Version 93 is the chief parameter for the second coded).
➢  Attention: The old version Mainboard must be sent back to our factory to be updated.
2. Headboard: Improving Resolutions(Reduce white dots when printing pure color) and equip with the more compatible Switchable Wave version(Same as the 5113, it's convenient and quick for us to switch by downloading the new wave file that we would release).
➢  Version 5.1.8 Attention: This version Headboard could not update, but the new version headboard has higher resolution and also compatible of the old version,  we suggest the headboard should update to the new version switchable wave  headboard.
3. Software: Download the newest beta software, url http://www.titanjet.com.cn/en/support.html?shareID=1404320
➢  Attention: The software must be this Beta version.
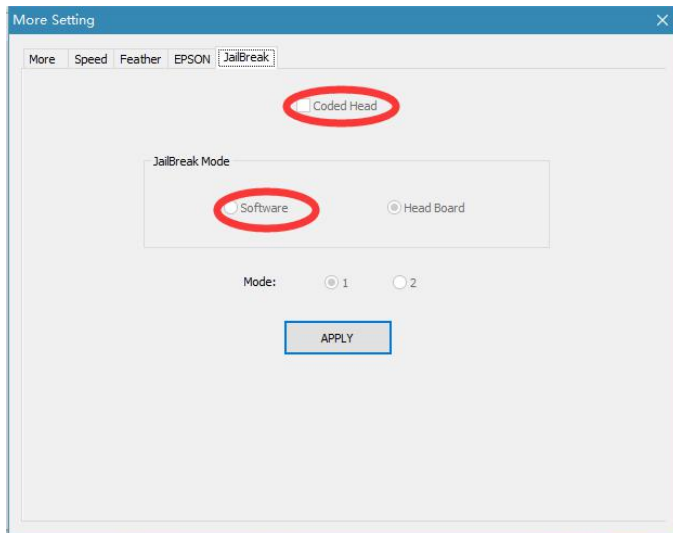
## Each version corresponding illustration

First coded DX5 Eco solvent&Water Based

1. Mainboard Version: 5.1.8 or lower(Suggest updating to 5.1.8 by sending back to us)
2. Headboard Version: FPGA: 93
   Ink Station Collide version: MCU1.3.5 USB1.3.9
   Ink Station Elevator with old LCD MCU5.1.4 USB5.2.1
   Ink Station Elevator with new LCD MCU5.1.5 USB5.2.1
3. Voltage Value: Suggest updating to switching wave version 5.1.8
4. First wave for Eco Solvent&Water Based, Second wave for Eco Solvent&Water Based.(Headboard: 1.1.6 switchable first wave or second wave)
5. ICC: DX5-DYE(Water Based) printer: DX5-DYE coded ICC(3 sections wave) DX-ECO(Eco solvent) printer download: DX5-ECO coded ICC(3 sections wave) DX5 First Water based& Eco solvent coded ICC for Maintop, DX5 Second Water based& Eco solvent coded ICC for Maintop(URL: http://www.titanjet.com.cn/en/support.html?shareID=1525809
6. Control Software: Titanjet Control printsystem(Micro Piezo) beta version.
7. SP: The software will automatically identify the switchable wave version and change itself,customer no need to change by themselves. But after changing, can't change back unless reinstall).Other version headboard no need to change.
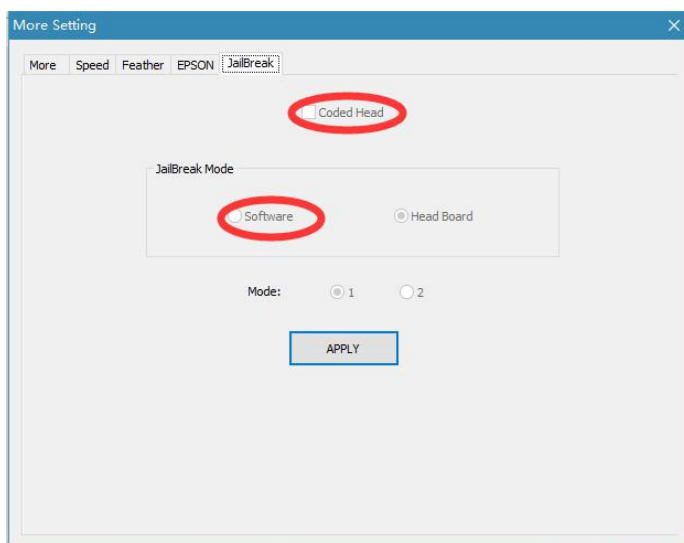8. Automatic or starting using by clicking as below:
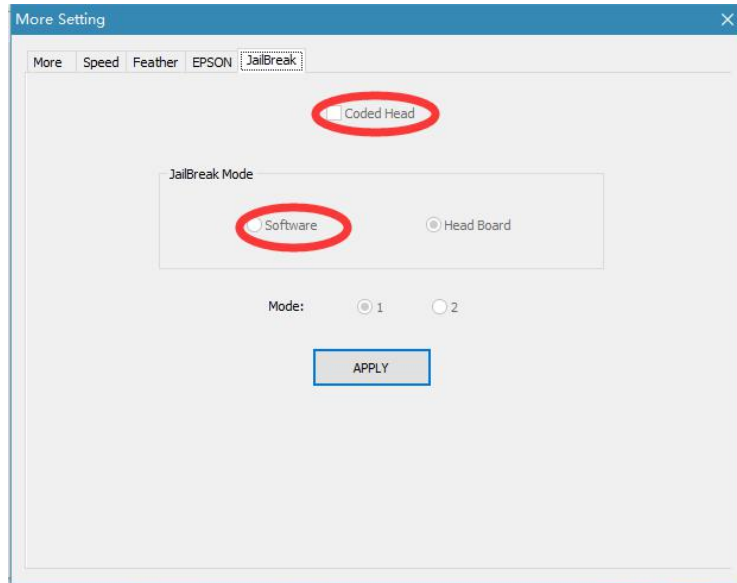
## First coded DX7 Eco solvent&Water Based

1. Mainboard version: 5.1.8 or lower(Suggesting updating to 5.1.8 by sending back to us)
2. Headboard Version: FPGA: 93
   Ink Station Collide version: MCU1.3.5 USB1.3.9
   Ink Station Elevator with old LCD MCU5.1.4 USB5.2.1
   Ink Station Elevator with new LCD MCU5.1.5 USB5.2.1
3. Voltage Value: Suggest updating to switching wave version 5.1.8
4. First wave for Eco Solvent&Water Based, Second wave for Eco Solvent&Water Based.(Headboard version 1.1.6 switchable first wave or second wave)
5. ICC: DX7-DYE(Water Based) printer download: DX7-DYE coded ICC(3 sections wave)
   DX7-ECO(Eco solvent) printer download: DX7-ECO coded ICC(3 sections wave)
   DX7 First Water based& Eco solvent coded ICC for Maintop, DX7 Second Water based&Eco solvent coded ICC for Maintop(URL: http://www.titanjet.com.cn/en/support.html?shareID=1525809
6. Control Software: Titanjet Control printsystem(Micro Piezo) beta version.
7. SP: The software will automatically identify the switchable wave version and change itself,customer no need to change by himself. But if need to change yourself(After changing, can't change back unless reinstall). Other version headboard no need to change.
8. Control printsystem software: automatic or starting using by clicking as below:
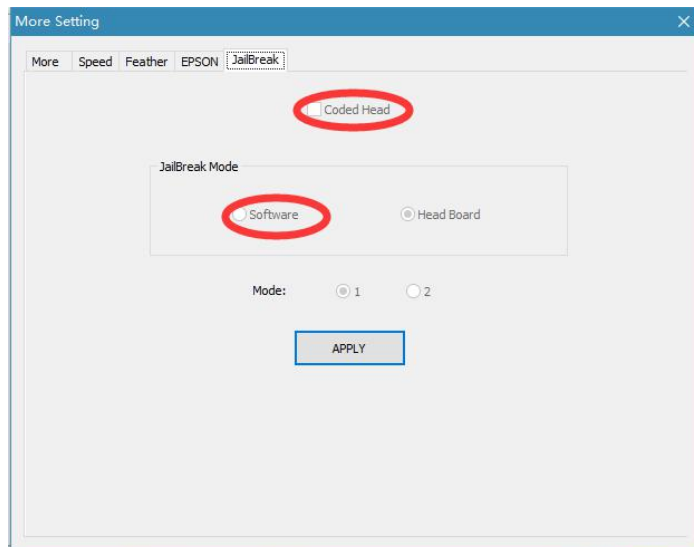
## Second coded DX5 water based&eco solvent

1. Mainboard Version: 5.1.8 or lower(Suggest updating to 5.1.8 by sending back to us)
2. Headboard Version: FPGA: 93
   Ink Station Collide version: MCU1.3.5 USB1.3.9
   Ink Station Elevator with old LCD MCU5.1.4 USB5.2.1
   Ink Station Elevator with new LCD MCU5.1.5 USB5.2.1
3. Voltage Value suggest updating to switching wave version 5.1.8
   ICC(Switchable wave): Downloading URL:http://www.titanjet.com.cn/en/support.html?shareID=1525809
   DX5-DYE(Water Based) printer download: DX5-DYE coded ICC(3 sections wave)
   DX5-ECO(Eco solvent) printer download: DX5-ECO coded(3 sections wave)
4. Control Software: Titanjet Control printsystem(Micro Piezo) beta version.
5. SP: Software default value(Can change if needed)
6. Function starts using as below:

# Second Coded DX7 water based&Eco solvent

1. Mainboard Version: 5.1.8 or lower(Suggest updating to 5.1.8 by sending back to us)
2. Headboard Version: FPGA: 93
   Ink Station Collide version: MCU1.3.5 USB1.3.9
   Ink Station Elevator with old LCD MCU5.1.4 USB5.2.1
   Ink Station Elevator with new LCD MCU5.1.5 USB5.2.1
3. Voltage Value suggest updating to switching wave version 5.1.8
   ICC(Switchable wave): Downloading URL:http://www.titanjet.com.cn/en/support.html?shareID=1525809
   DX5-DYE(Water Based) printer download: DX5-DYE coded ICC(3 sections wave)
   DX5-ECO(Eco solvent) printer download: DX5-ECO coded(3 sections wave)
4. Control Software: Titanjet Control printsystem(Micro Piezo) beta version.
5. SP: Software default value(Can change if needed)
6. Function starts using as below:

# How to change Stepping speed?

Before unifying all the version, According to the stepping Motor, the Mainboard version has 2 FPGA versions 90 & 91. The FPGA value 90 is Using Stepping Motor, The FPGA value 91 is using Raster coder. It exists the situation of slow stepping speed when using different Mainboard, this causes customer must change the Mainboard or adjust the stepping speed, this is inconvenient for our customers.

For this situation, We unify all the FPGA version as 93. This FPGA 93 is suitable for all the Models. It allows customer to change some value by using "T tool", instead of sending back the boards.

Operating Step: 1. Close the Control printsystem software.

2. Open the software installing root, Mainboard.exe.

3. Switch the language on the up-left and choose "Other Settings"

4. Click "Read" and see the Motor detailed value.

5. If need to change, Click "Set 1604 Motor step" or "Set 3302 Motor step"

Motor Detailed Value: 1 is Leadshine stepping Motor+Driver(Model is 3.2m -R series, 1.8m -R series and 1.6m with 5113 head model)

Motor Detailed Value: 0 is Stepping Motor with Raster Disc or Stepping Motor with Raster Inside.(Model is 1.6m -R, 1.8m -L)
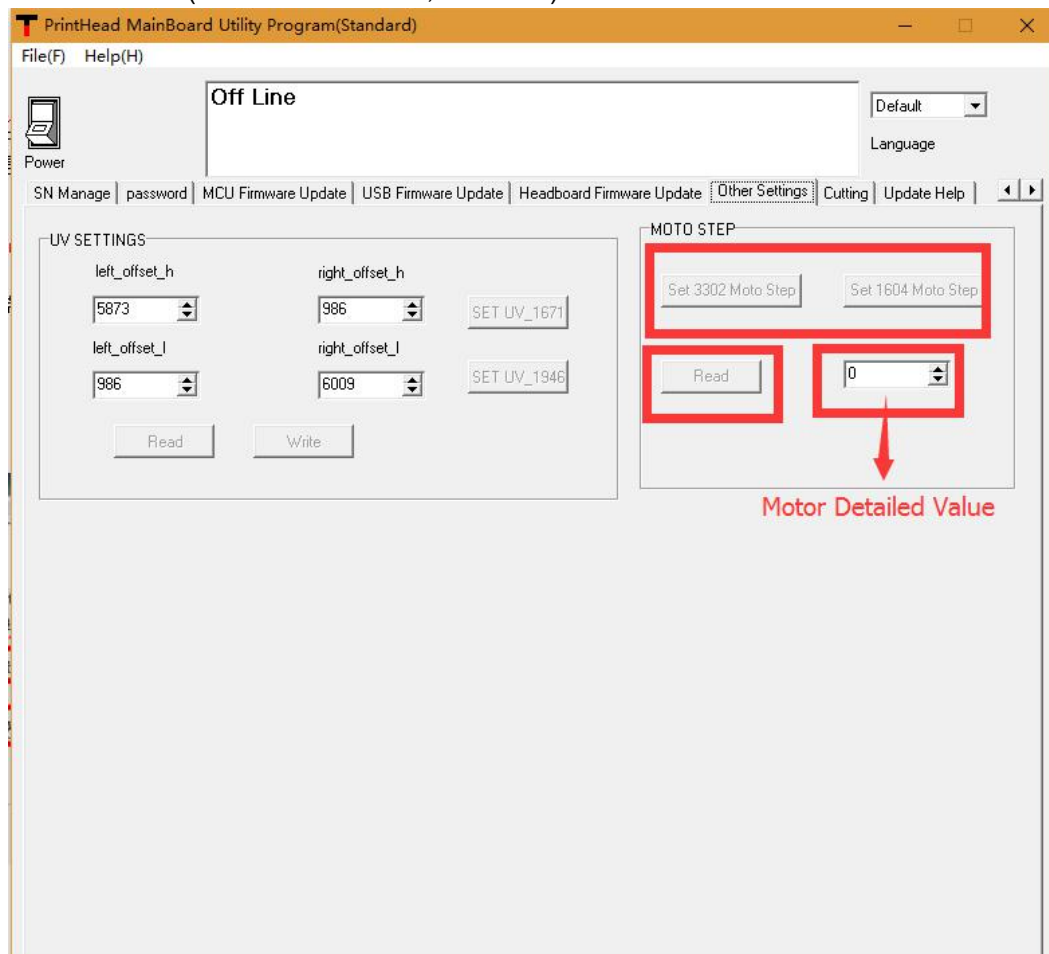
# How to change the exposure distance of UV light?

There are some differences about the Carriage Size and UV light position cuz many UV model printer. For this reason, the exposure distance of the UV light will be different, so need to choose corresponding UV light program.

But now the new version Mainboard realize changing the UV light program automatically. Customer can change the UV light program by themselves.

FPGA: 93.  USB: 5.2.1 can realize the automatic adjustment of the UV light exposure distance.

Operating Step: 1.Close the printsystem control software.

2. Open the software installing root, Mainboard.exe.

3. Switch the language on the up-left and choose "Other Settings"

4. Click "Read" to confirm the exposure distance of the UV light.

5. Click "SET UV_1671" or "SET UV_1946" and then Click " Write" if need to change.

<span style="color:red">5873, 986, 996, 6009(Those values are the default value of 1946-UV)</span>

Attention: Single DX5 or DX7 printer refers to UV_1671 to fine tuning.

Double DX5, DX6 or DX7 printer refers to UV_1946 to fine tuning.

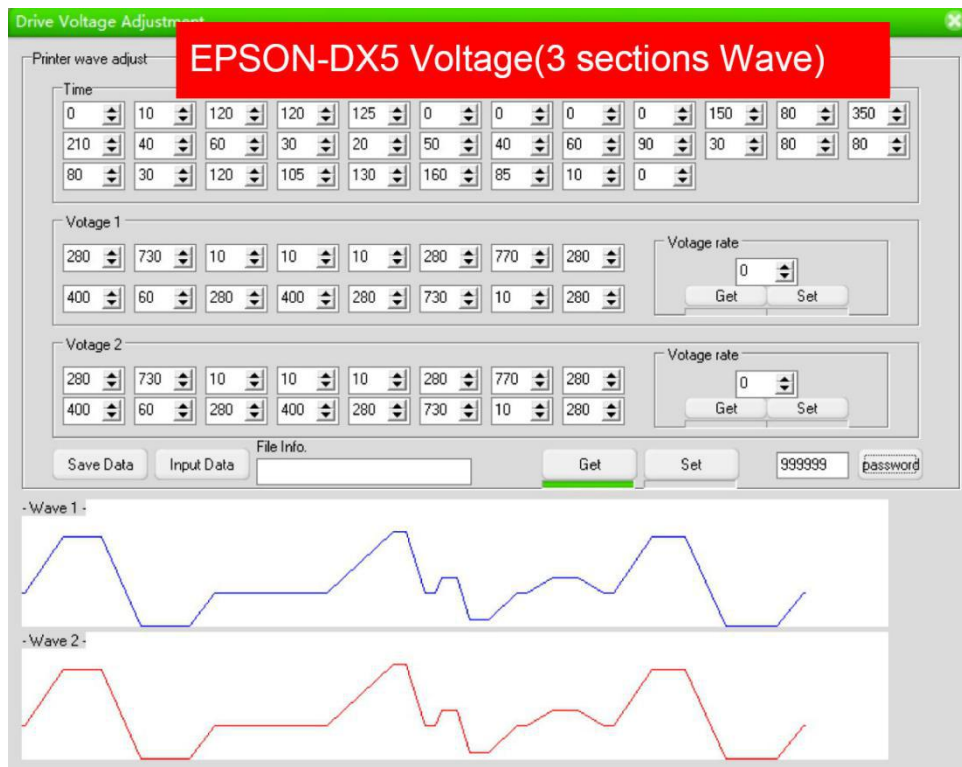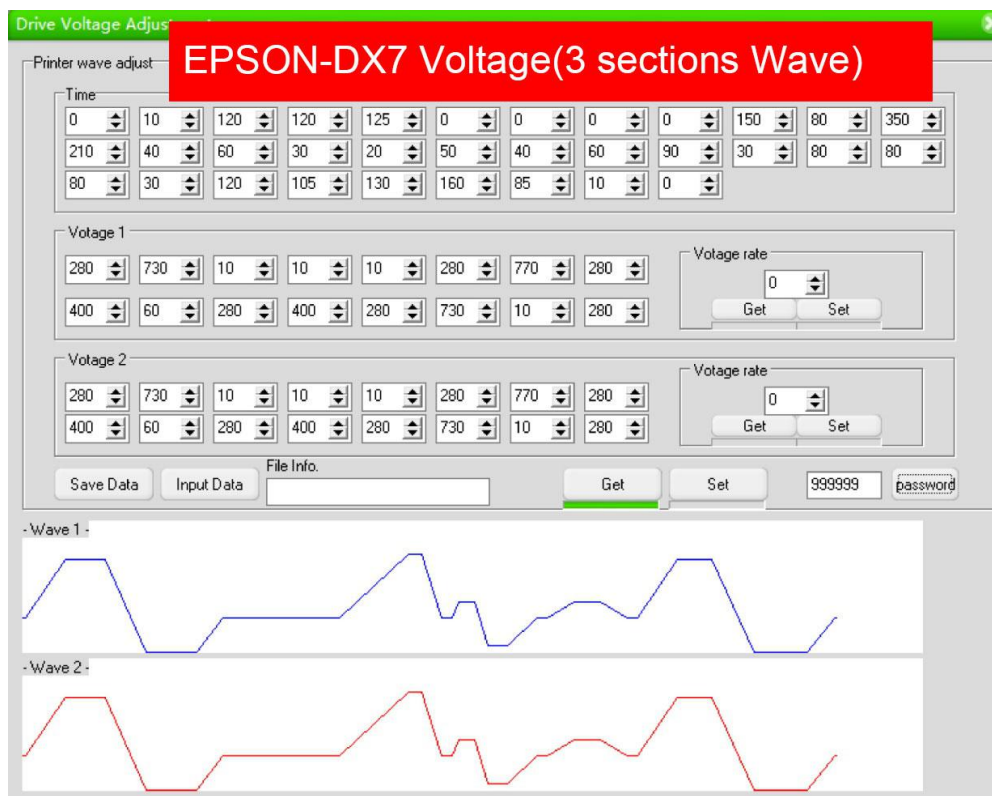All the detailed Numbers are subject to the printer itself.
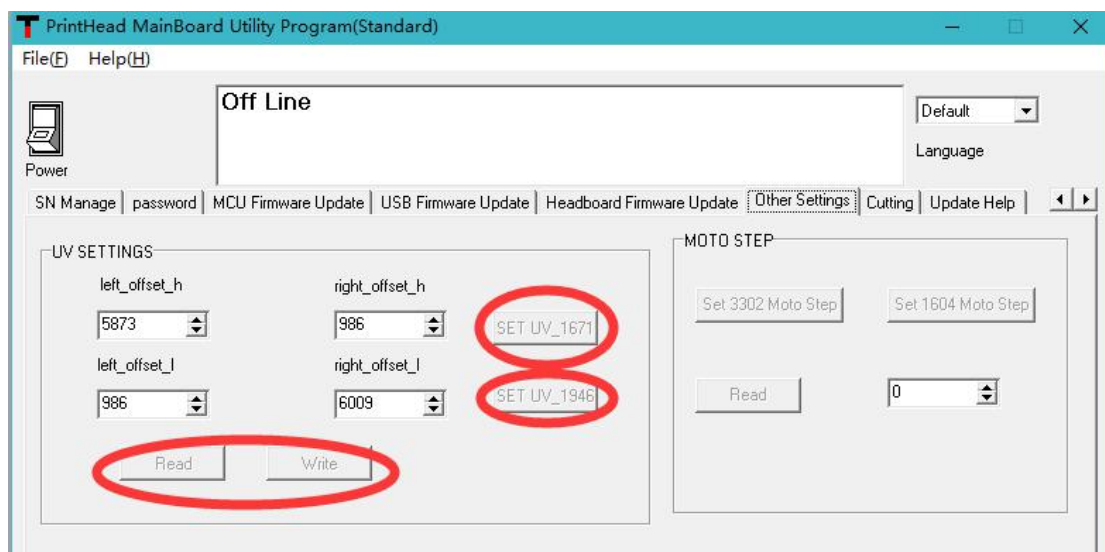
# DX5/DX6/DX7 Switchable wave update Guide

1. Headboard version 5.1.8 or high(If lower version, need to send back to factory)
2. Download the newest beta printsystem control software and check the headboard version as below:
   - A. Beta software download url: titanjet.4.136dns.com/beta/TitanPrint_Epson.rar
   - B. Open the "T-tool" by opening the software installing root.
   - C. Click the "Power" to connect.
   - D. Select "Hardware_Information" from the left-up.
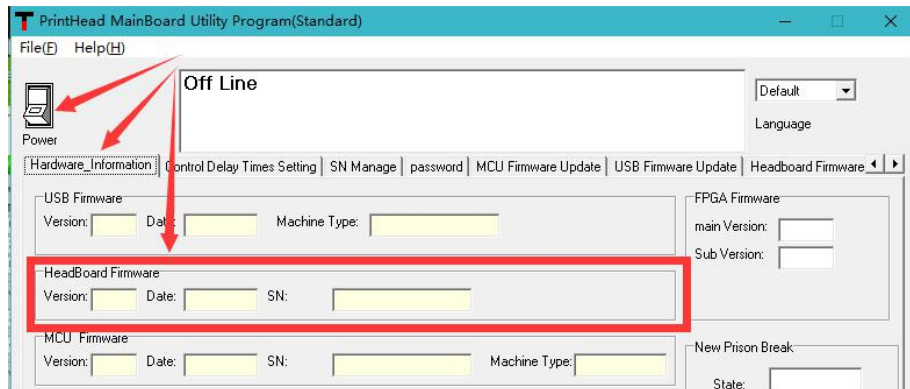


3. Check Whether the Voltage Wave correct or not, if incorrect, change it.
A. "T-Tool"-"Hardware_Information"-"Driver Voltage Adjustment"
B. Click "Get" to load the voltage and compare with the Voltage as below.
C. Click "Input Data" to load the wave file downloaded from our website if it's not the same.
D. Click "Set" to write the wave.
E. After writing the wave, close the "T-Tool".

**EPSON-DX6 Voltage(3 sections Wave)**

Drive Voltage Adjustment

Printer wave adjust

Time

| 0 | 10 | 120 | 120 | 125 | 0 | 0 | 0 | 0 | 150 | 80 | 350 |
| 210 | 40 | 60 | 30 | 20 | 50 | 40 | 60 | 90 | 30 | 80 | 80 |
| 80 | 30 | 120 | 105 | 130 | 160 | 85 | 10 | 0 | | | |

Votage 1

| 280 | 730 | 10 | 10 | 10 | 280 | 770 | 280 |
| 400 | 60 | 280 | 400 | 280 | 730 | 10 | 280 |

Votage rate: 0  Get  Set

Votage 2

| 280 | 730 | 10 | 10 | 10 | 280 | 770 | 280 |
| 400 | 60 | 280 | 400 | 280 | 730 | 10 | 280 |

Votage rate: 0  Get  Set

Save Data  Input Data  File Info.  Get  Set  999999  password

- Wave 1 -

- Wave 2 -

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**EPSON-DX7 Voltage(3 sections Wave)**

Drive Voltage Adjust

Printer wave adjust

Time

| 0 | 10 | 120 | 120 | 125 | 0 | 0 | 0 | 0 | 150 | 80 | 350 |
| 210 | 40 | 60 | 30 | 20 | 50 | 40 | 60 | 90 | 30 | 80 | 80 |
| 80 | 30 | 120 | 105 | 130 | 160 | 85 | 10 | 0 | | | |

Votage 1

| 280 | 730 | 10 | 10 | 10 | 280 | 770 | 280 |
| 400 | 60 | 280 | 400 | 280 | 730 | 10 | 280 |

Votage rate: 0  Get  Set

Votage 2

| 280 | 730 | 10 | 10 | 10 | 280 | 770 | 280 |
| 400 | 60 | 280 | 400 | 280 | 730 | 10 | 280 |

Votage rate: 0  Get  Set

Save Data  Input Data  File Info.  Get  Set  999999  password

- Wave 1 -

- Wave 2 -

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4. Printsystem control software SP revise, VSDT print.

A. It will change the SP automatically on the normal situation. But need to change SP by yourself if printing the broken black bar.

B. Path: Tool-Voltage Adjust-Epson SP-Change, pic as below:

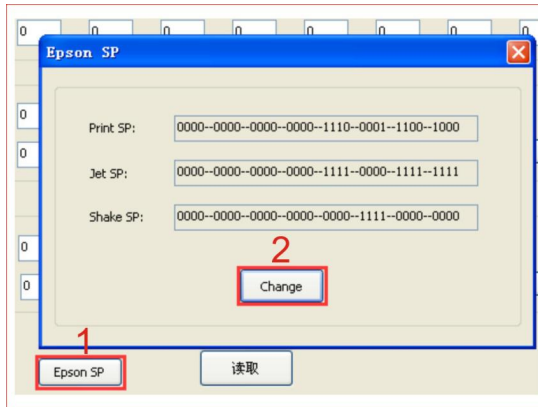C. Then Path: Job-Option-Adjust PrintHead-VSDT "DEMO"



图9



图10



图11

5. Maintop ICC install

A. Download the ICC from our website

➢ DX5-DYE(Water Based)printer: DX5-DYE ICC(3 sections wave)

➢ DX5-ECO(Water Based)printer: DX5-ECO ICC(3 sections wave)

B. Install Maintop ICC.

➢ Open Maintop.

➢ File-Printer setup-Install-Custom-Select the .inf file you          compressed.

➢ Set As Default Printer

➢ Finish