Manuals+ — User Manuals Simplified.

CREALITY ZDTP-32 Bit BLTouch V3.1 Auto Bed Leveling Sensor Kit User Guide

Contents

CREALITY ZDTP-32 Bit BLTouch V3.1 Auto Bed Leveling Sensor Kit

AUTO BED LEVELING SENSOR FOR 3D PRINTER
This guidebook is for Creality V1 mainboard.lt include but not limited to the following 3d printer: CR-10/Ender-3
File download: **https://www.creality.com/download/**

Scan QR code to view detailed instruction

SHENZHEN CREALITY 3D TECHNOLOGY CO.,L TD.
11F & Room 1201,Block 3,JinChengYuan,Tongsheng Community, Dalang, Longhua District, Shenzhen, China,518109
Official Website: **www.creality.com**
Tel: +86 755-8523 4565
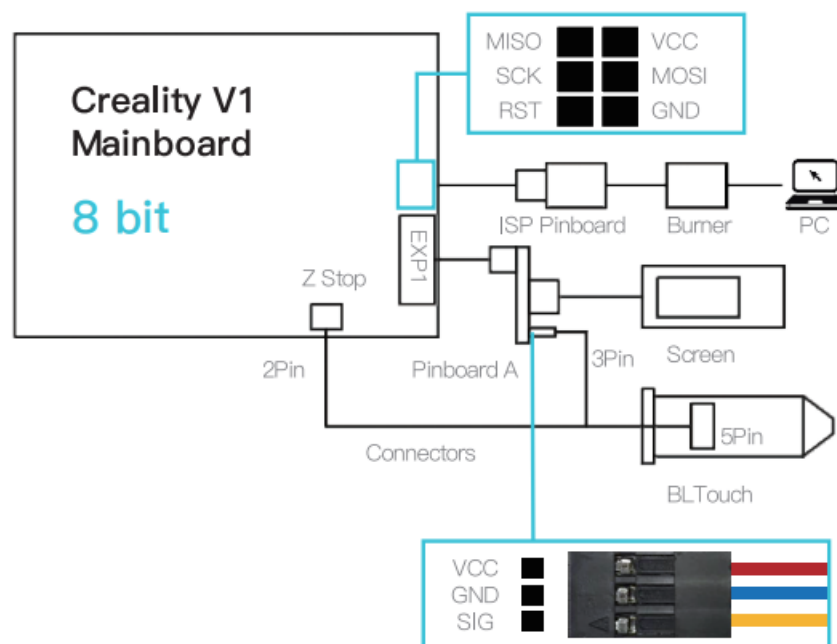E-mail: **info@creality.com cs@creality.com**
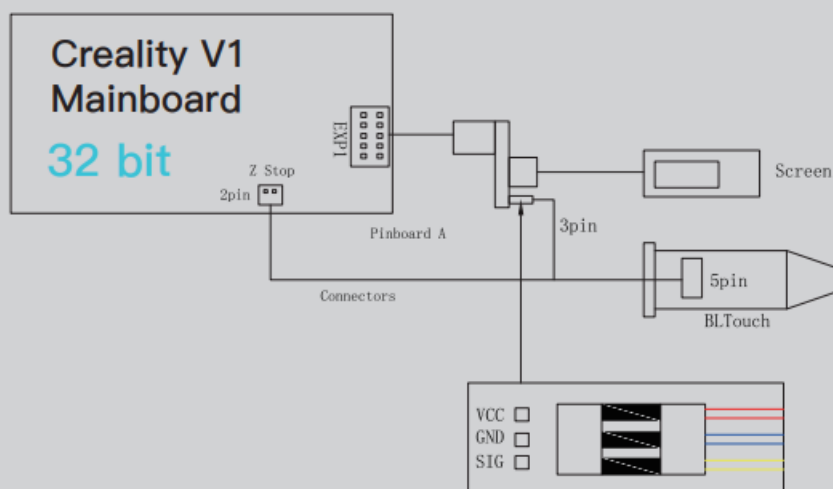
Packing List

① Packing List

BLTouch Connectors Tie Rack Pinboard A M3X6 2PCS M3X8 2PCS ISP Pinboard Burner

Circuit Principle

② Circuit Principle

Creality V1 Mainboard 8 bit

MISO	VCC
SCK	MOSI
RST	GND

ISP Pinboard Burner PC

Z Stop EXP1

2Pin Pinboard A 3Pin Screen

Connectors 5Pin

BLTouch

| VCC |
| GND |
| SIG |

② Circuit Principle

Creality V1 Mainboard 32 bit

EXP1

Z Stop
2pin

Pinboard A 3pin Screen

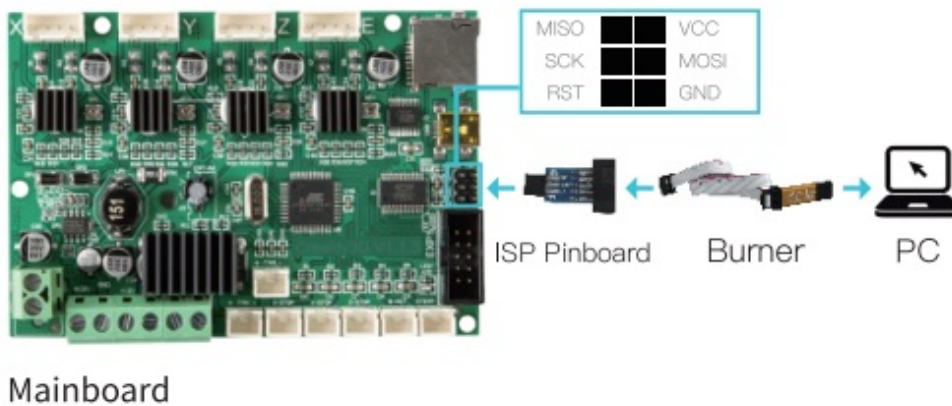Connectors 5pin

BLTouch

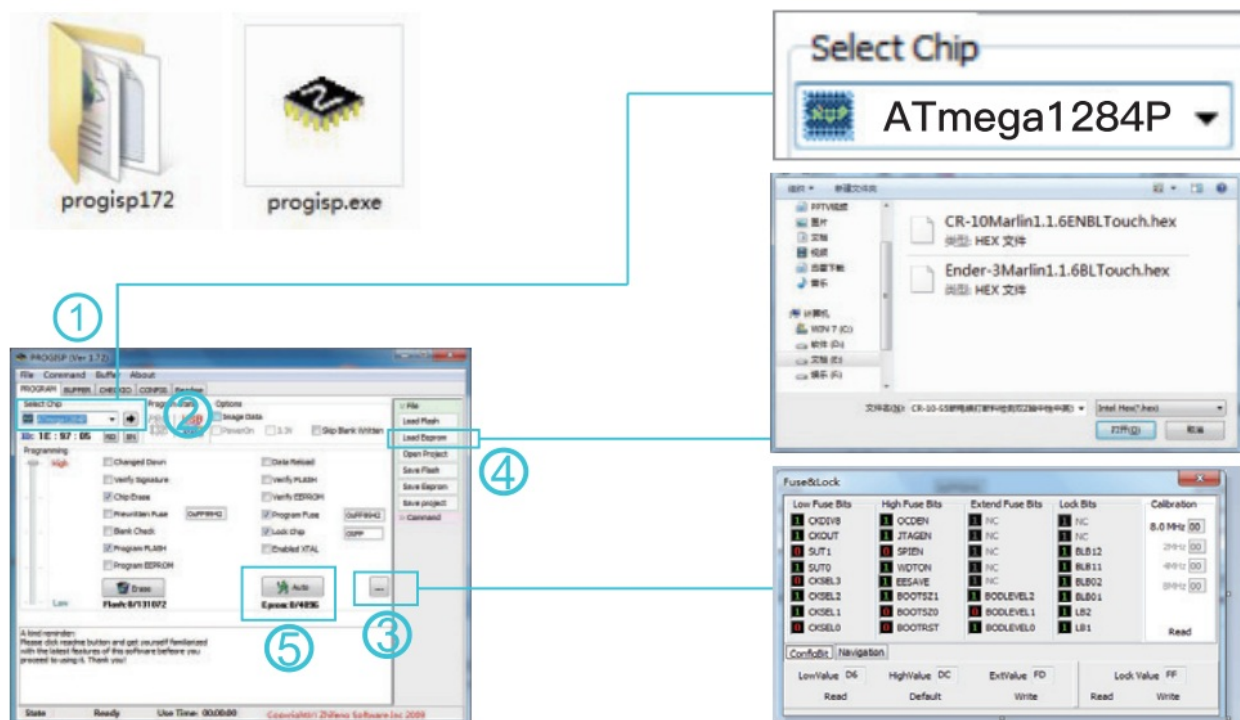| VCC |
| GND |
| SIG |

**Update Firmware**

③ Update Firmware   8 bit

Mainboard

1. Connect ISP Pinboard and Burner.
2. Open the control box and fmd out the mainboard
3. Insert ISP pinboard into the mainboard 2X3 pins as the sign shows.
4. Insert the burner into computer USB port.

1. Open progisp.exe
2. Select Chip ATmega1284p3, Click … —> Set Low Value=D6, HighValue=DC, ExtValue=FD—>Click Write and close the window.
3. load Flash—>Select .hex 1ile.
4. Click Auto to update firmware, wait until it 1inishs, then close.
5. Unplug the ISP Pinboard from mainboard.

Update Firmware

③ Update Firmware   32 bit

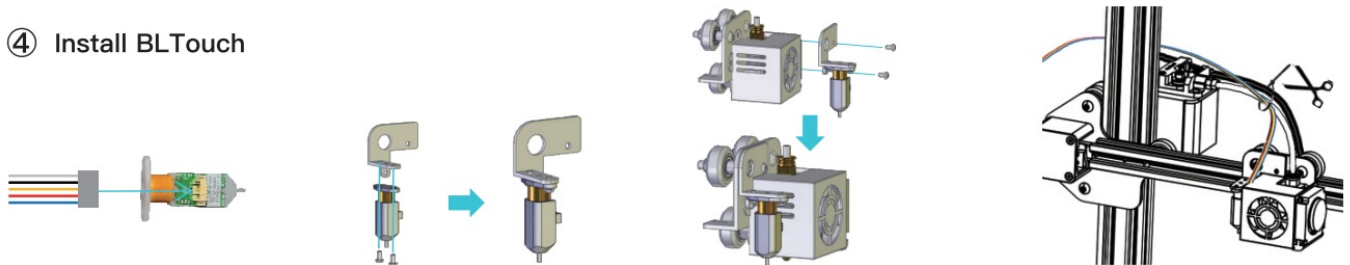Note: Every firmware files is different for every machine !
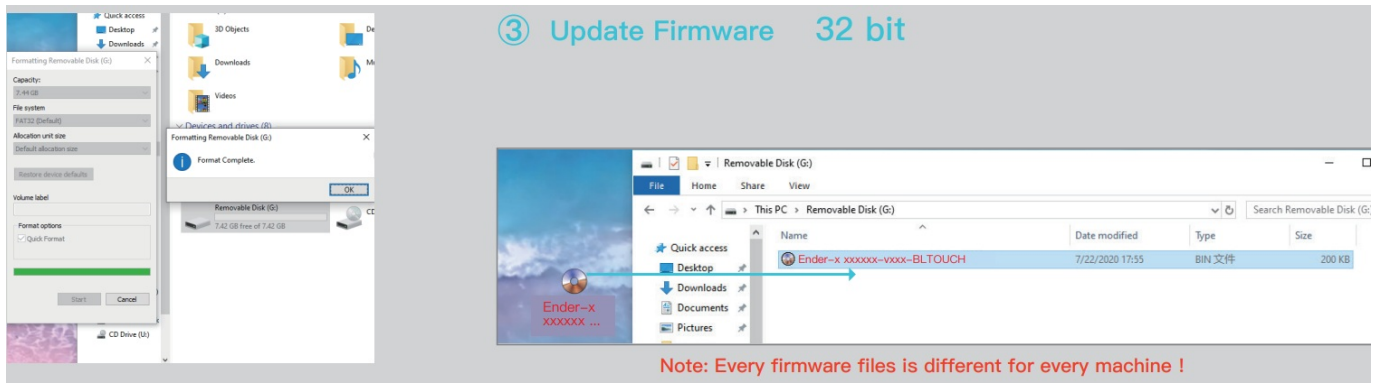
1. Double-click to open computer-right-click to format SD card.
2. Copy the firmware to the SD card. Note: the SD card only holds one firmware file.
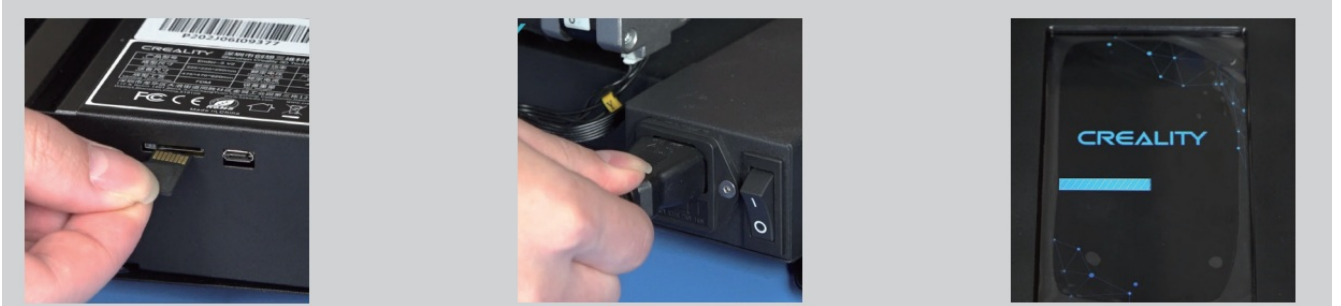
3. Insert SD card.
4. Insert the power cord and press the switch.
5. Wait for the brush firmware to complete (about 10 seconds).

Install BL Touch

④ Install BLTouch

1. Insert connectors into 5 Pin Port.
2. Install BL Tocuh on the rack with 2 M3X6 screws
3. Loosen all fan cover screws, Install the farme on the corresponding position with 2 M3X8 screws
4. Secure the cable to the guide tube and cable with a cable tie and bypass the rear side of the gantry.

⑤ Circuit Wiring   8 bit

Screen

1. Unplug the screen cable, connect the pinboard A to the screen port (EXP1).
2. Insert the screen cable into 10 pins port.
3. insert the connectors to the 3 pins port as the sign shows.
4. Unplug the Z limit switch(Z-stop port),and insert the connectors

⑤ **Circuit Wiring** **32 bit**
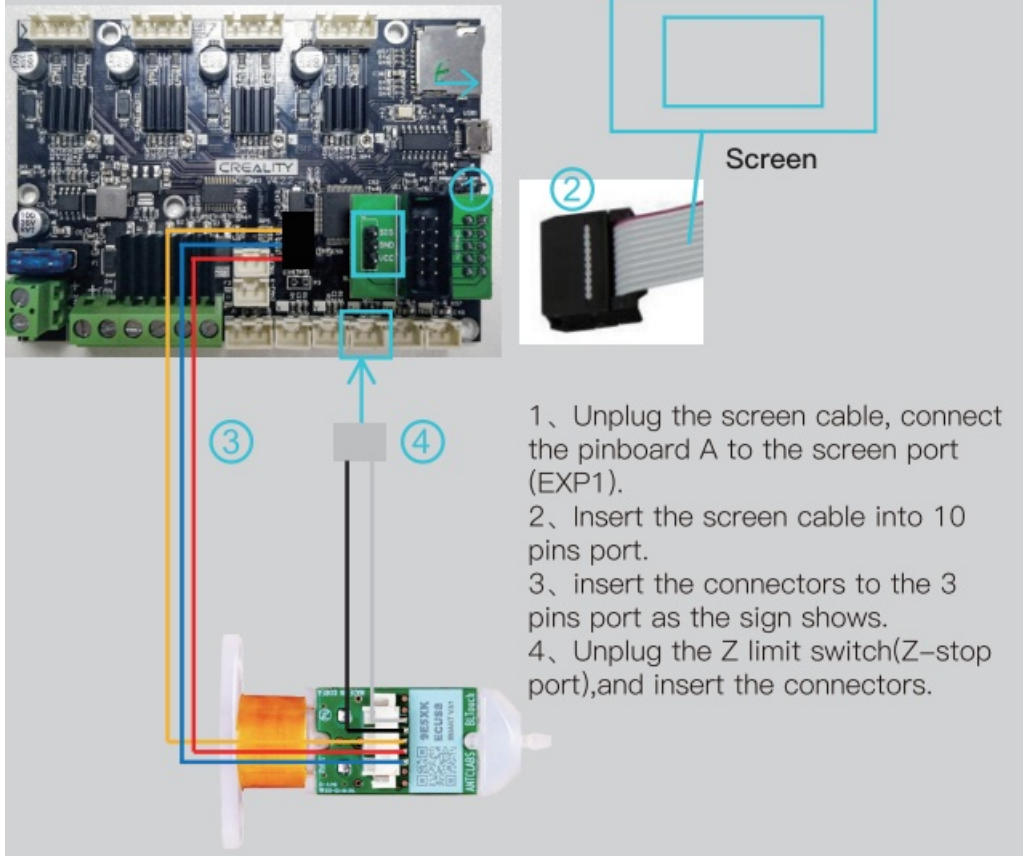
Screen

1、Unplug the screen cable, connect the pinboard A to the screen port (EXP1).
2、Insert the screen cable into 10 pins port.
3、insert the connectors to the 3 pins port as the sign shows.
4、Unplug the Z limit switch(Z-stop port),and insert the connectors.

1. Unplug the screen cable, connect the pinboard A to the screen port (EXP1).

2. Insert the screen cable into 10 pins port.

3. insert the connectors to the 3 pins port as the sign shows.

4. Unplug the Z limit switch(Z-stop port),and insert the connectors.

Platform Adjustment

Note: The actual sequence of operation depends on the machine model.
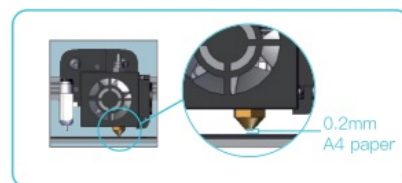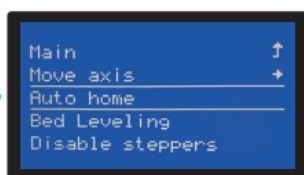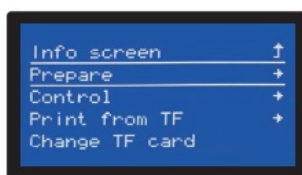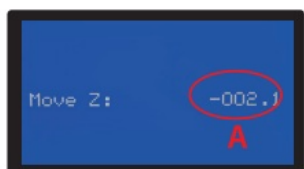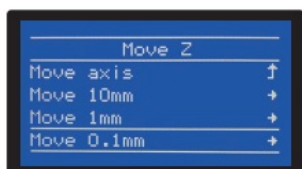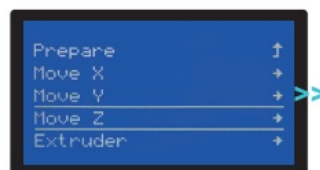
⑥ Platform Adjustment   8 bit


```
Info screen      ↕
Prepare          →
Control          →     >>
Print from TF    →
Change TF card   →
```

```
Main             ↕
Move axis        →
Auto home
Bed Leveling
Disable steppers
```


0.2mm
A4 paper

Figure3

```
Info screen      ↕
Prepare          →
Control          →     >>
Print from TF    →
Change TF card   →
```

```
Main             ↕
Move axis        →
Auto home
Bed Leveling
Disable steppers
```
>>
```
Prepare          ↕
Move X           →
Move Y           →
Move Z           →     >>
Extruder         →
```

```
        Move Z
Move axis         ↕
Move 10mm         →
Move 1mm          →
Move 0.1mm        →
```
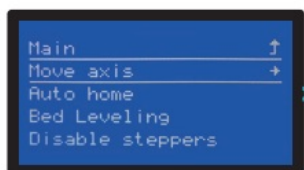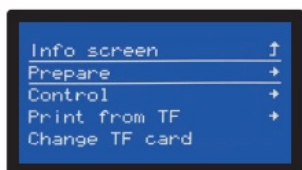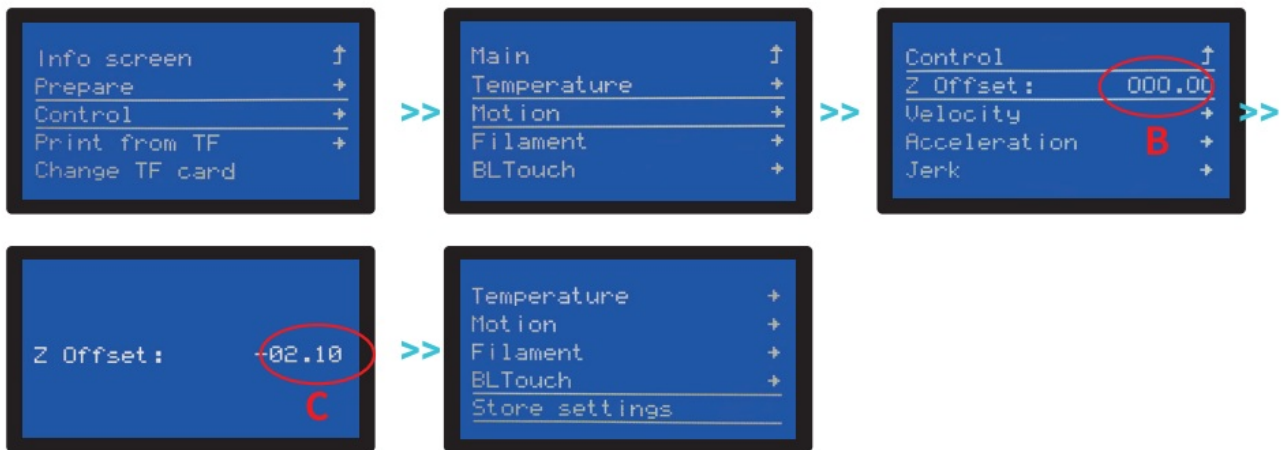>>
```
Move Z:        -002.1

             A
```
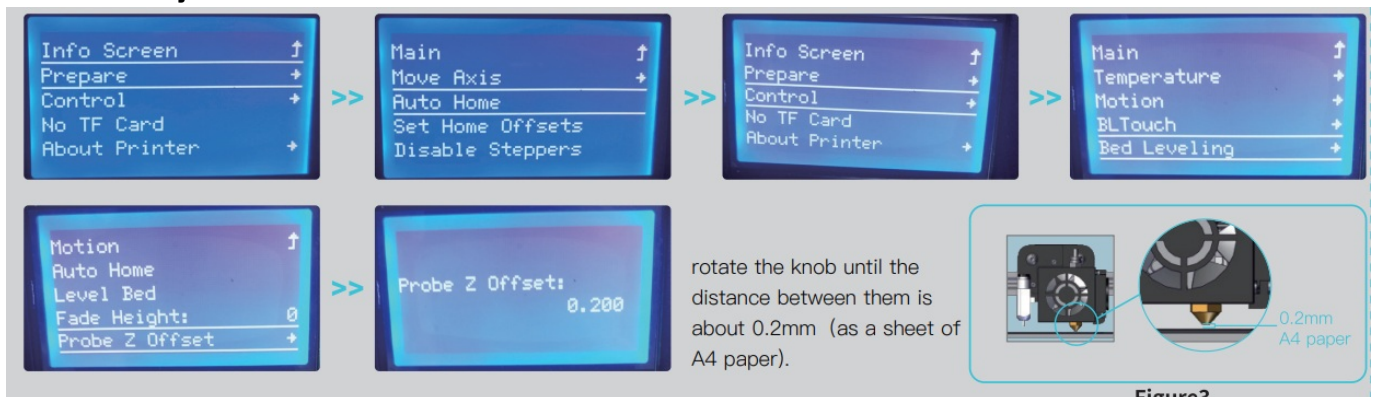
1. Prepare—>Auto home, and wait until it stops.

2. Prepare->Move axis—>Move Z—>Move 0.1 mm—>Rotate the knob until the distance between them is about 0.2mm (as a sheet of A4 paper) , write down the value of A.

3. Rotate the knob until the distance between them is about 0.2mm (as a sheet of A4 paper) , write down the value of A (For example, figure 3)

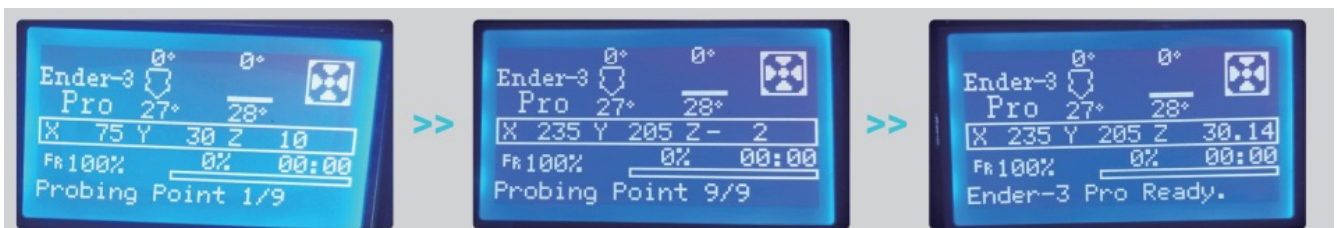4. Control—>Motion—>Z Offset—>write down the value of B, then rotate the knob until it comes out as: C=B+A. Return Control and Select Store settings.

Platform Adjustment

rotate the knob until the distance between them is about 0.2mm (as a sheet of A4 paper).

0.2mm A4 paper

Figure3

1. Prepare—>Auto home, and wait until it stops.

2. Select control.

3. Select Bed leveling.

4. Select Level Bed.

5. leveling 9 points

6. 9 points leveling completed

7. automatic leveling is completed, the machine is ready to be OK

Note: Every machine has its own operation interface.
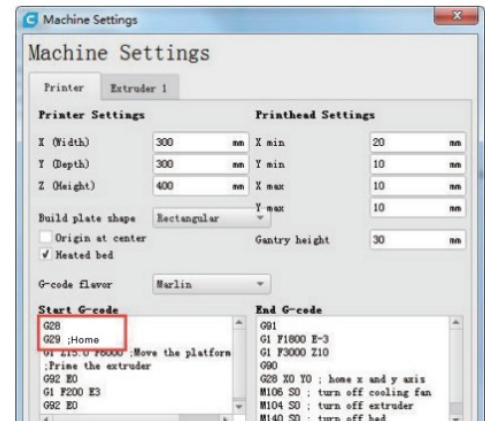
Software Settings

1、Open Cura
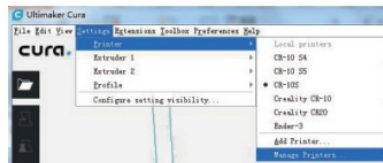
2、Settings→ Printer−Manage Printers
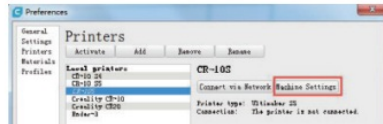
3、Machine Settings

4、Change"G28"to"G28 G29"

AUTO BED LEVELING SENSOR FOR 3D PRINTER

This guidebook is for Creality V2 mainboard.It include but not limited to the following 3d printer: CR-10S/CR-10 S4/CR-10 S5/CR20.
File download: **https://www.creality3d.cn/download/**
Video instruction of firmware flash: **http://bit.ly/2FkyOag**
Video insruction of USB Driver Installation: **http://bit.ly/2ZNvjTn**

Scan QR code to view detailed instruction

Website

Facebook

SHENZHEN CREALITY 3D TECHNOLOGY CO., LTD.

12/F, Block 3, JinChengYuan, Huafan Road, Tongsheng Community, Dalang, Longhua District, Shenzhen, China, 518109
Official Website: **www.creality3d.cn**
Tel: +86 755-2103 4006
E-mail: **info@creality3d.cn cs@creality3d.cn**

Packing List

① **Packing List**

BLTouch

Connectors

Rack

M3X8 2PCS

M3X6 2PCS

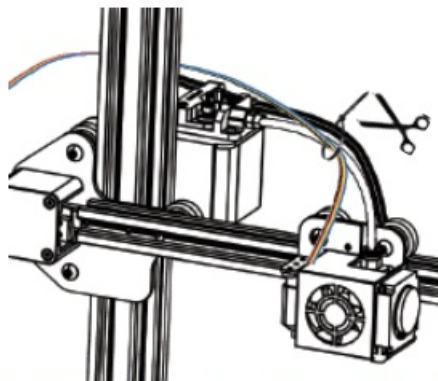**Install BLTouch**

② **Install BLTouch**
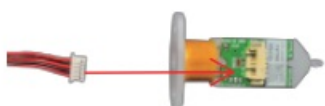
1、Insert connectors into 5 Pin Port.
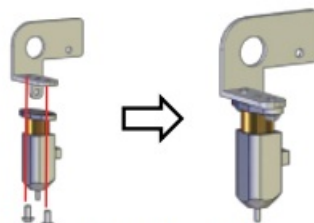
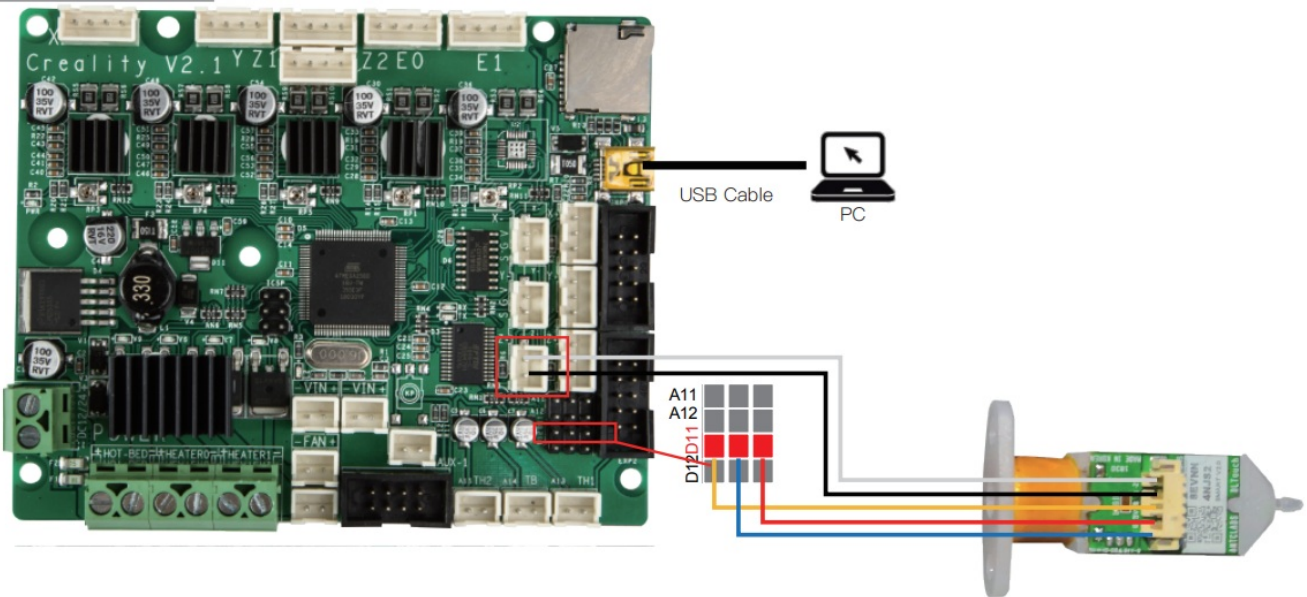2、Install BLTocuh on the rack with 2 M3X6 screws
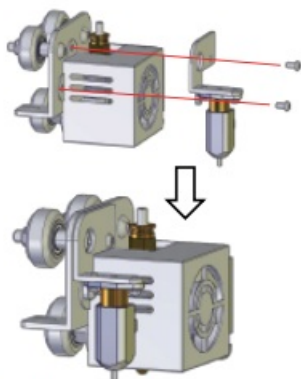
3、Loosen all fan cover screws, Install the farme on the corresponding position with 2 M3X8 screws

4、Secure the cable to the guide tube and cable with a cable tie and bypass the rear side of the gantry.
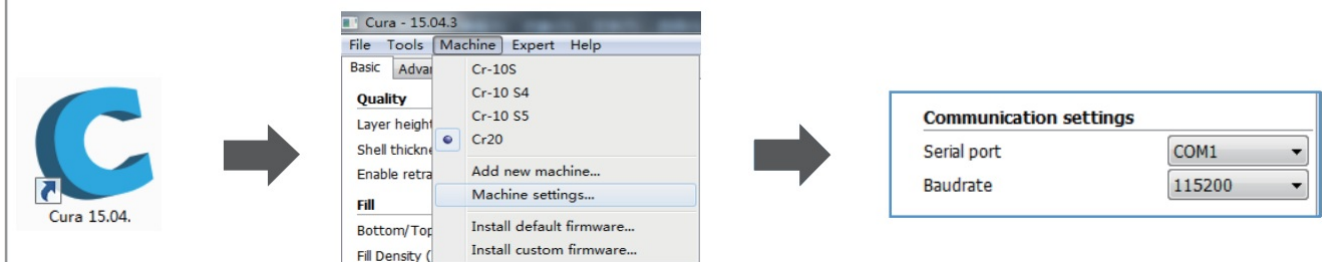
Circuit Wiring

1. Open the control box and find out the mainboard.

2. Unplug the Z limit switch (Z port),and insert the connectors.

3. Insert connectors into the mainboard D11 pins as the colorshows.

4. Closed the control box.

5. Connect ISP Pinboard and Burner.

6. Connect computer to update firmware with usb cable.

Update Firmware

Open Cura→Machine→Machine settings→Select Serial port COM & Baudrate 115200

Machine→Install custom firmware→Select .hex file→Click OK to update Waiting until it is finished, then click ok.
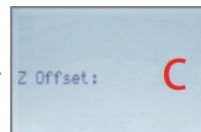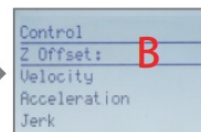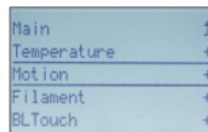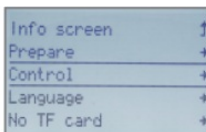
Platform Adjustment
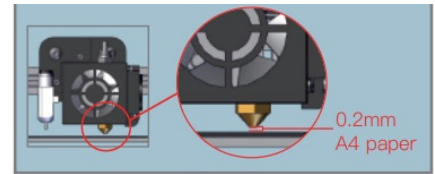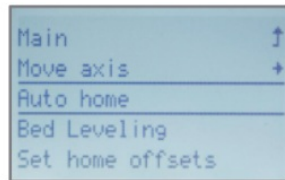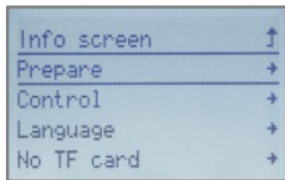
figure 3

1. Prepare→Auto home and wait until it stops.
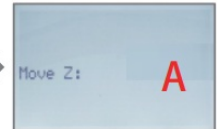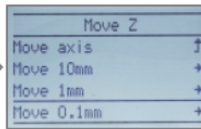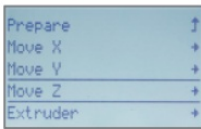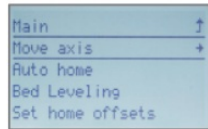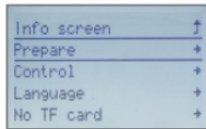
2. Prepare→Move axis→Move Z→Move 0.1mm→Rotate the knob until the distance between them is about 0.2mm as a sheet of A4 paper write down the value of A.

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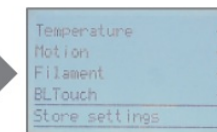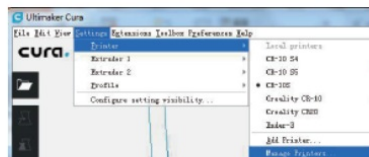

4. Control→Motion→Z Offset→write down the value of B then rotate the knob until it comes out as: C=B+A. Return Control and Select Store settings.
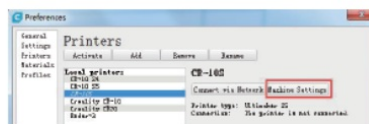
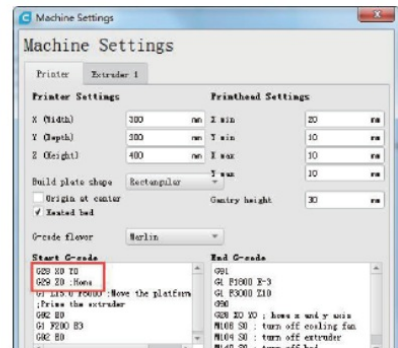## Software Settings

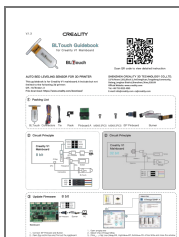⑥ Software Settings

1、Open Cura

2、Settings→ Printer–Manage Printers

3、Machine Settings

4、change "G28" to "G28 X0 Y0 G29 Z0"

Documents / Resources

[CREALITY ZDTP-32 Bit BLTouch V3.1 Auto Bed Leveling Sensor Kit](#) [pdf] User Guide
ZDTP-32 Bit, BLTouch V3.1 Auto Bed Leveling Sensor Kit, Auto Bed Leveling Sensor, Bed Leveling Sensor, ZDTP-32 Bit, Leveling Sensor

References

- ⓑ **[Dropbox - File Deleted](#)**

- **⑤ Dropbox - File Deleted**