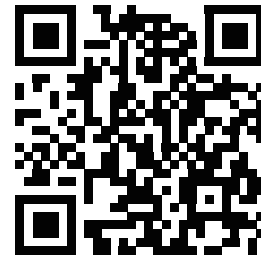


BLTouch Guidebook

for Creality V1 Mainboard



Scan QR code to view detailed instruction

AUTO BED LEVELING SENSOR FOR 3D PRINTER

This guidebook is for Creality V1 mainboard. It includes but is not limited to the following 3D printer:

CR-10/Ender-3

File download: <https://www.creality.com/download/>

SHENZHEN CREALITY 3D TECHNOLOGY CO.,LTD.

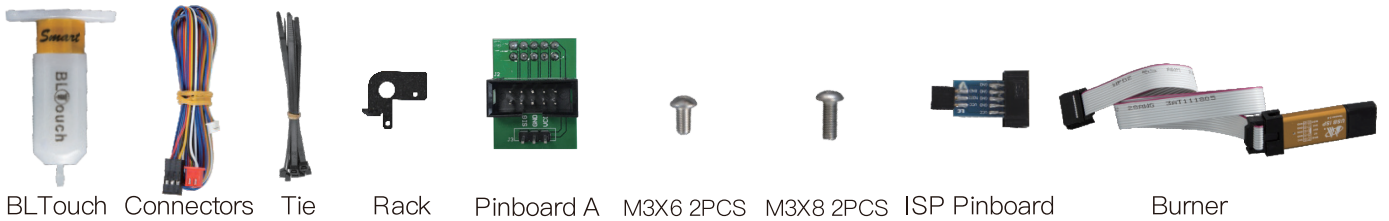
11F & Room 1201, Block 3, JinChengYuan, Tongsheng Community, Dalang, Longhua District, Shenzhen, China, 518109

Official Website: www.creality.com

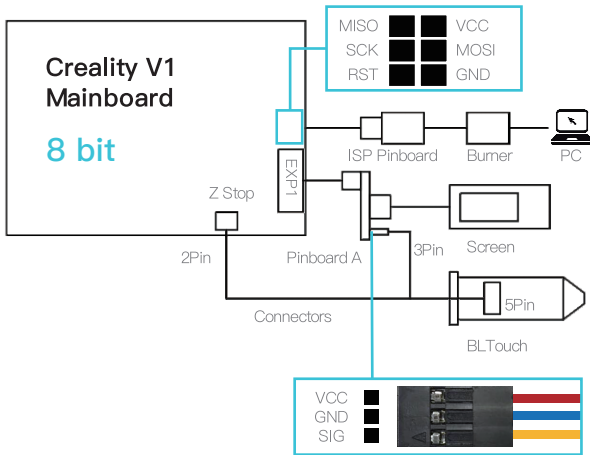
Tel: +86 755-8523 4565

E-mail: info@creality.com cs@creality.com

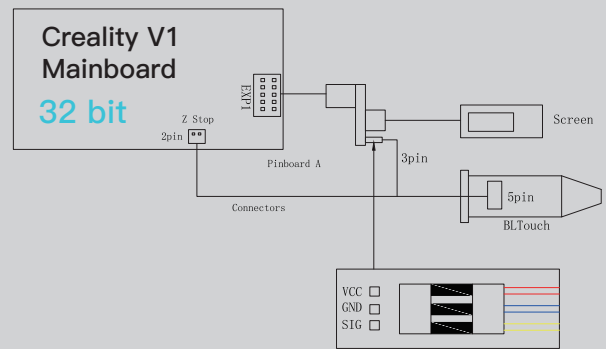
① Packing List



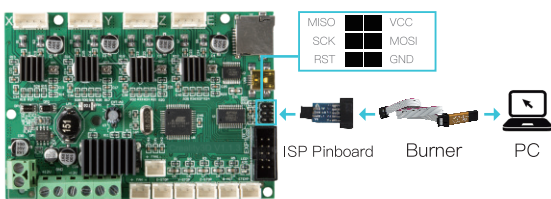
② Circuit Principle



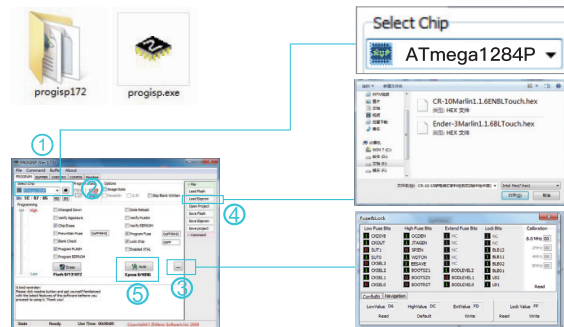
② Circuit Principle



③ Update Firmware 8 bit

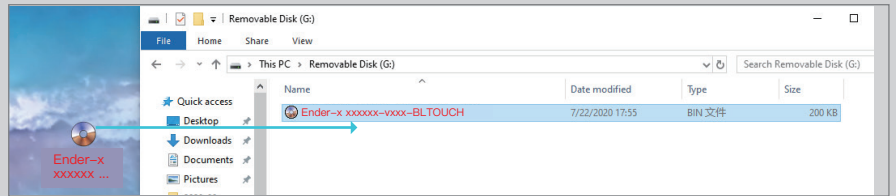
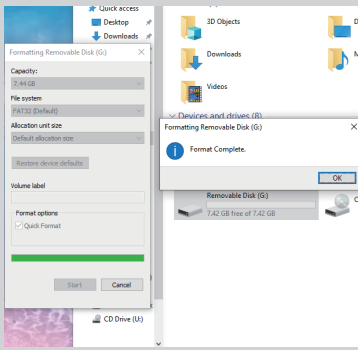


Mainboard



1. Connect ISP Pinboard and Burner.
2. Open the control box and find 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 ATmega1284p.
3. Click ... → Set Low Value=D6, HighValue=DC, ExtValue=FD → Click Write and close the window.
4. load Flash → Select .hex file.
5. Click Auto to update firmware, wait until it finishes, then close.
6. Unplug the ISP Pinboard from mainboard.

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.

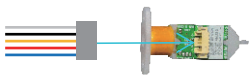


4. Insert the power cord and press the switch.

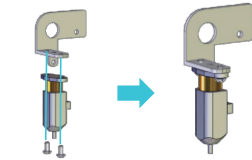


5. Wait for the brush firmware to complete (about 10 seconds).

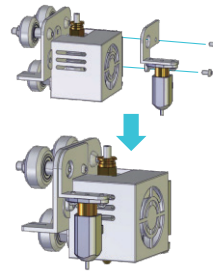
④ Install BLTouch



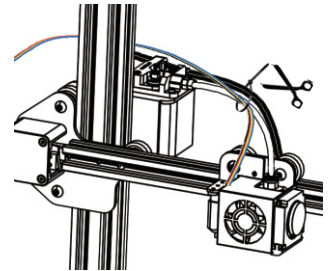
1、 Insert connectors into 5 Pin Port.



2、 Install BLTouch on the rack with 2 M3X6 screws

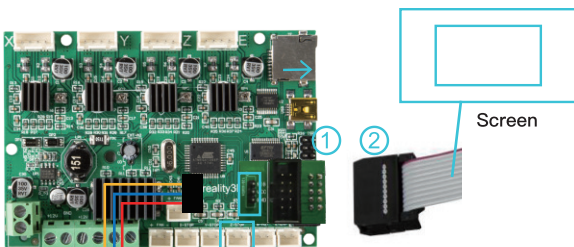


3、 Loosen all fan cover screws, Install the fan on the corresponding position with 2 M3X8 screws



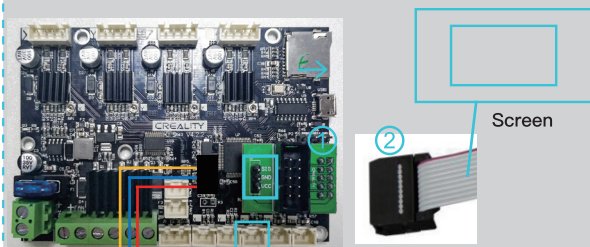
4、 Secure the cable to the guide tube and cable with a cable tie and bypass the rear side of the gantry.

⑤ Circuit Wiring 8 bit



- 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.

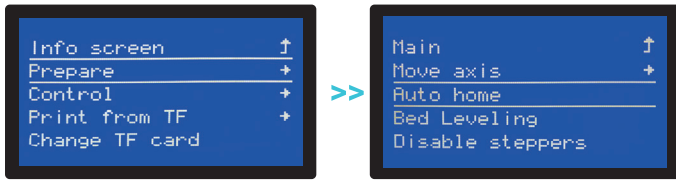
⑤ Circuit Wiring 32 bit



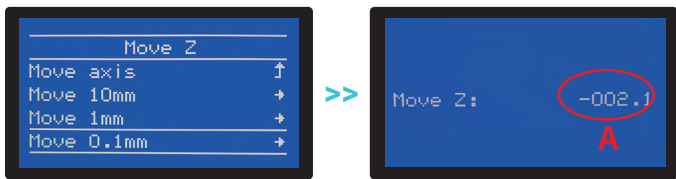
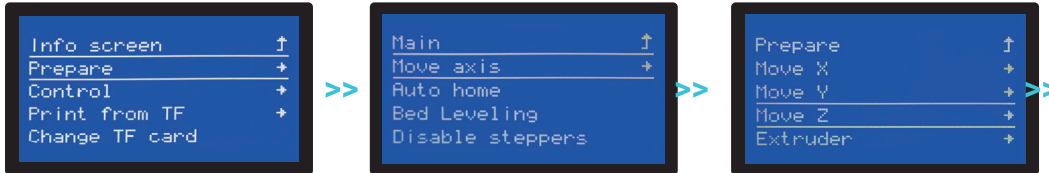
- 1、 Unplug the screen cable, connect the pinboard A to the screen port (EXP1).
- 2、 Insert the screen cable into 10 pins port.
- 3、 insert the connectors to the 3 pins port as the sign shows.
- 4、 Unplug the Z limit switch(Z-stop port),and insert the connectors.

Note: The actual sequence of operation depends on the machine model.

⑥ Platform Adjustment 8 bit

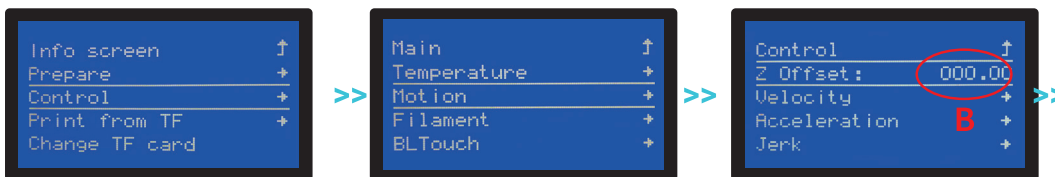


1. Prepare→Auto home, and wait until it stops.



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.

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.

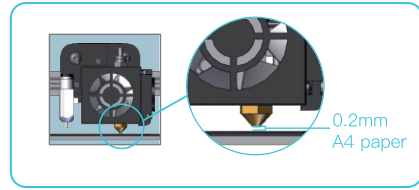


Figure3

⑥ Platform Adjustment 32 bit



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

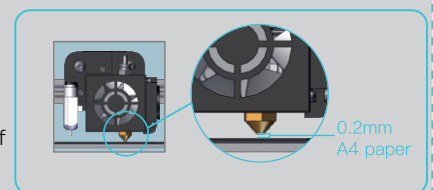
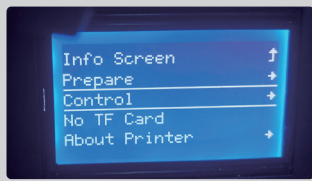


Figure3

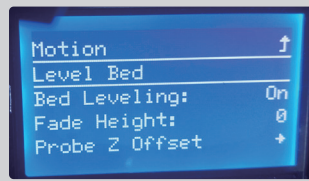
1. Prepare→Auto home, and wait until it stops.



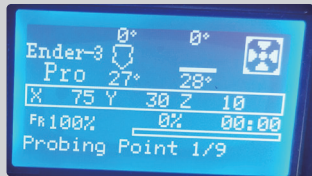
2. Select control.



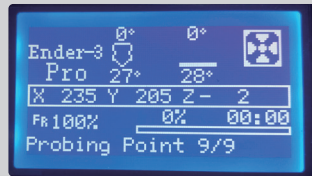
3. Select Bed leveling.



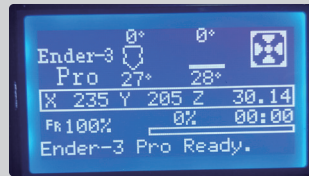
4. Select Level Bed.



5. leveling 9 points



6.9 points leveling completed



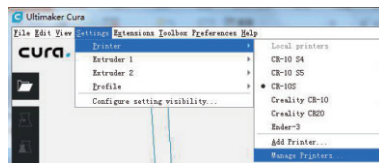
7. automatic leveling is completed, the machine is ready to be OK

Note: Every machine has its own operation interface.

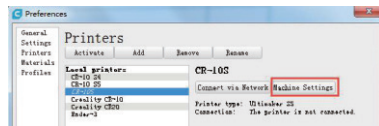
⑦ Software Settings



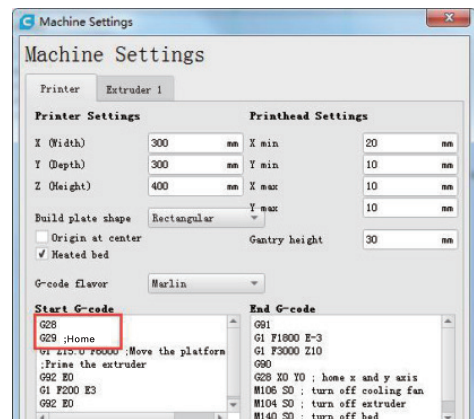
1. Open Cura



2. Settings → Printer - Manage Printers



3. Machine Settings



4. Change "G28" to "G28 G29"