



BLTouch Guidebook for Creality V1 Mainboard



Website



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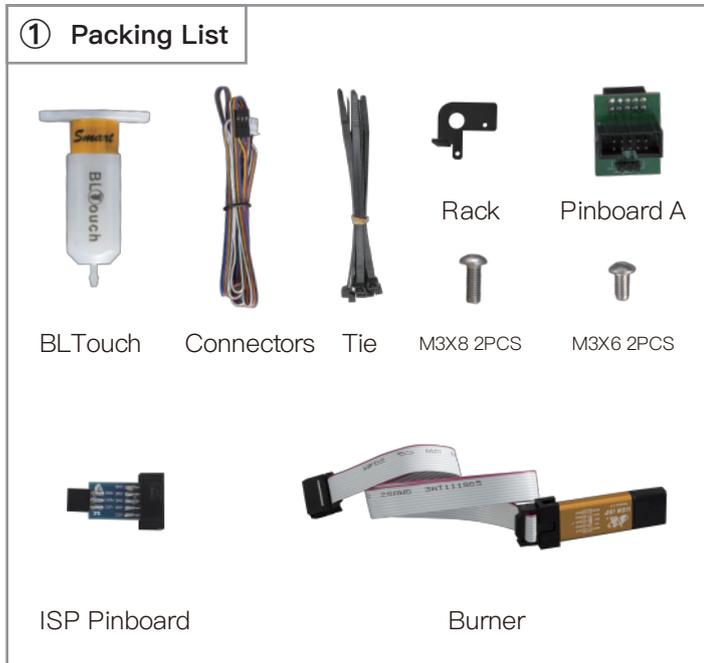
AUTO BED LEVELING SENSOR FOR 3D PRINTER

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.creality3d.cn/download/>

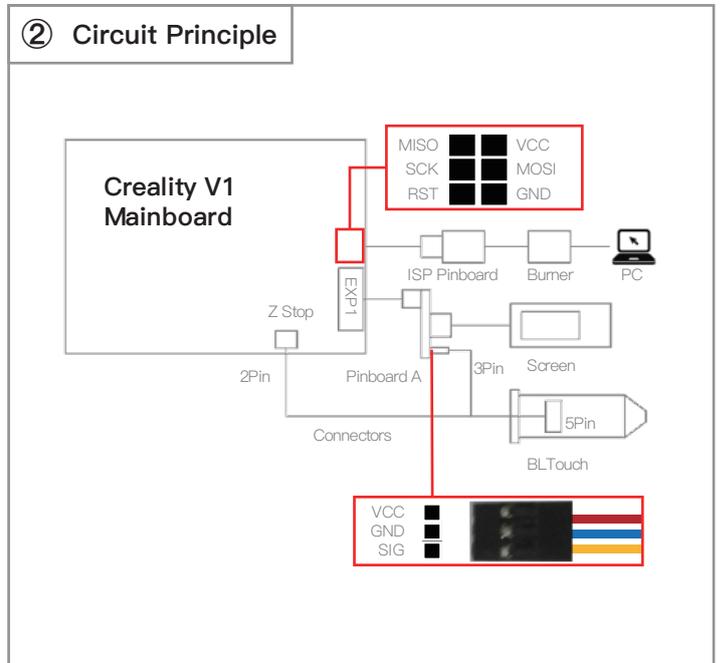
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① Packing List



② Circuit Principle



③ Update Firmware

Mianboard

MISO VCC
SCK MOSI
RST GND

ISP Pinboard

Burner

PC

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.

progisp.exe

progisp172

Select Chip
ATmega1284P

CR-10MarEn1.1.6ENBLTouch.hex
JES: HEX-25C

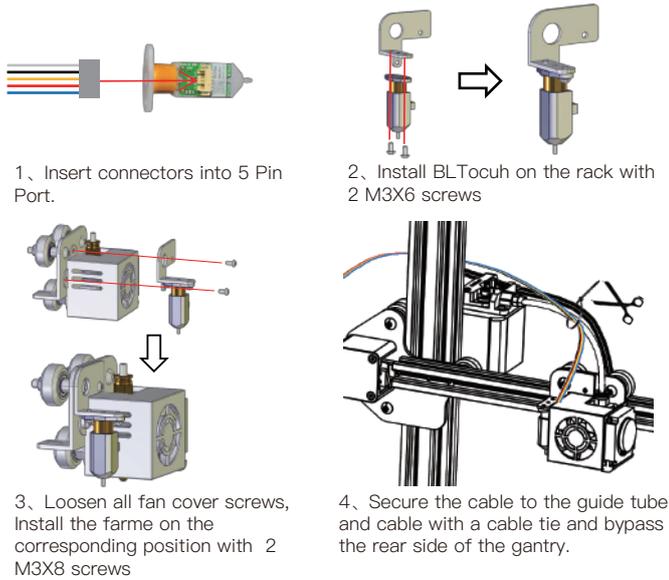
Enden-3MarEn1.1.6ENBLTouch.hex
JES: HEX-25C

progisp.exe

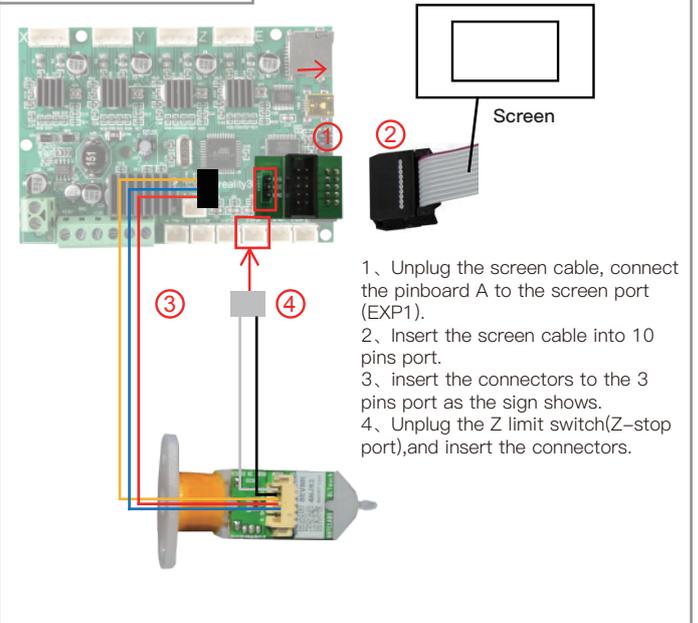
② ④ ⑤ ③

1. Open progisp.exe
2. Select Chip ATmega1284p.
3. Click ... → Set Low Value=DC, HighValue=D6, 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.

④ Install BLTouch



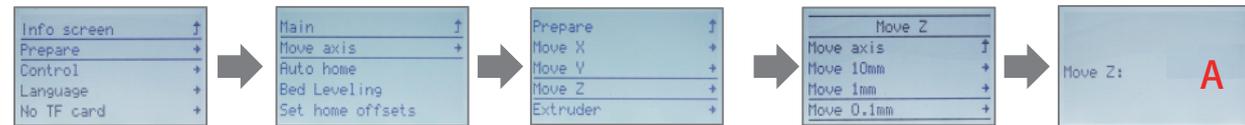
⑤ Circuit Wiring



⑥ Platform Adjustment

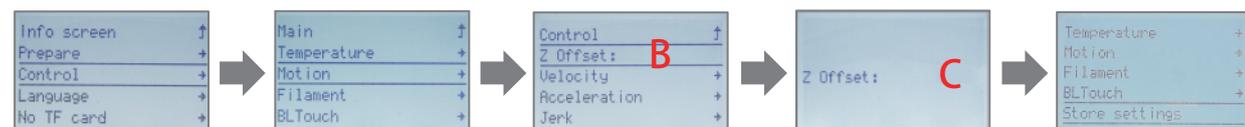


1、 Prepare→Auto home, and wait until it stops.



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.

⑦ Software Settings

