



BLTouch Guidebook for Creality V2 Mainboard



Website



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AUTO BED LEVELING SENSOR FOR 3D PRINTER

This guidebook is for Creality V2 mainboard. It includes but is not limited to the following 3D printer:
CR-10S/CR-10 S4/CR-10 S5/CR20.
File download: <https://www.creality3d.cn/download/>

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① Packing List



BLTouch



Connectors



Rack

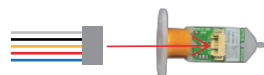


M3X8 2PCS

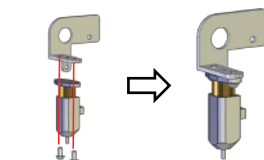


M3X6 2PCS

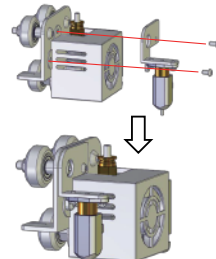
② Install BLTouch



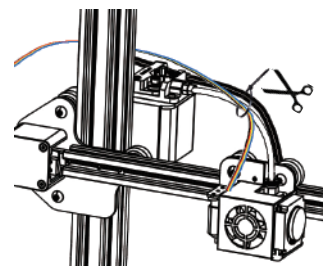
1、Insert connectors into 5 Pin Port.



2、Install BLTouch on the rack with 2 M3X6 screws

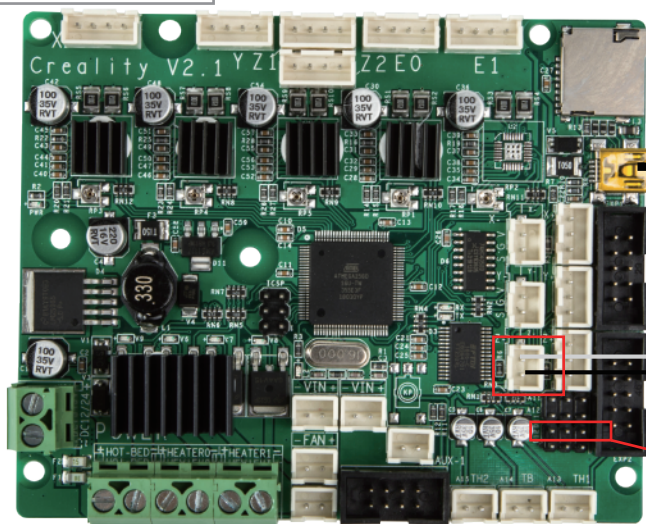


3、Loosen all fan cover screws, Install the fan on the corresponding position with 2 M3X8 screws



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

③ Circuit Wiring



USB Cable

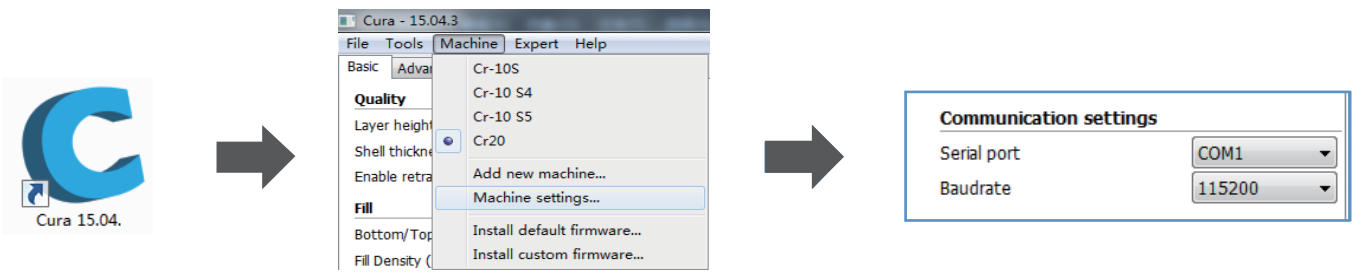


PC

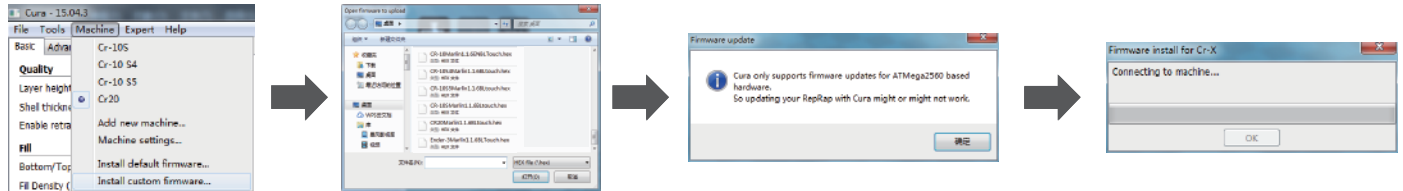
A11
A12
D11

- 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 color shows.
- 4、Close the control box.
- 5、Connect ISP Pinboard and Burner.
- 6、Connect computer to update firmware with USB cable.

④ Update Firmware



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



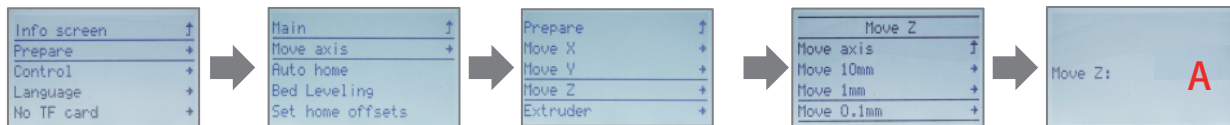
Machine→Install custom firmware→Select .hex file→Click OK to update, Waiting until it is finished, then click ok.

⑤ Platform Adjustment



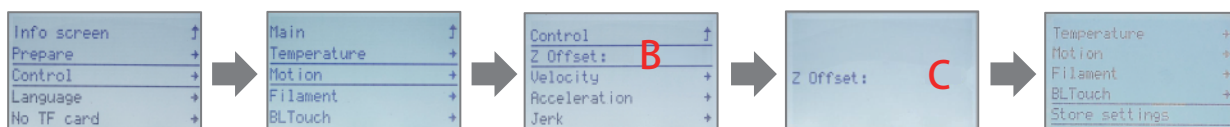
figure 3

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



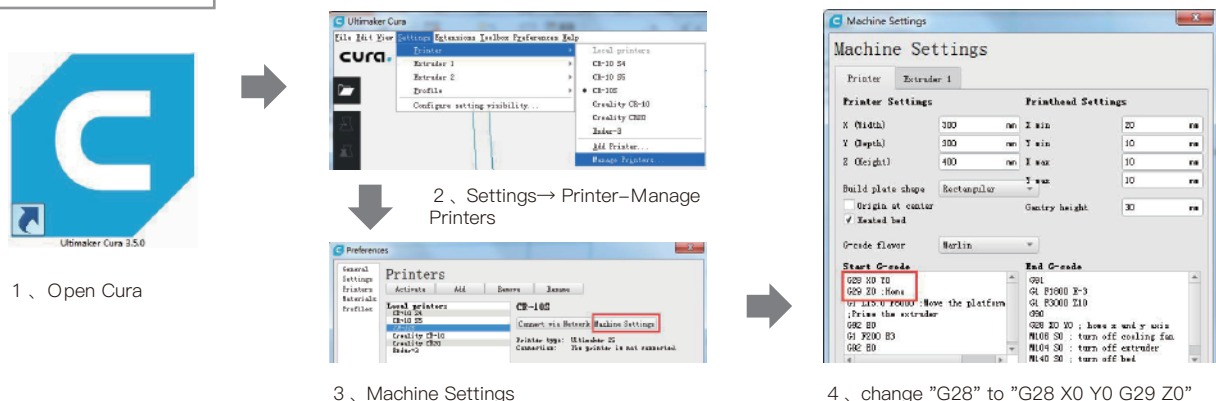
2、Prepare→Move axis→Move Z→Move 0.1mm→Rotate the knob until the distance between them is about 0.2mm (as a sheet of A4 paper) , write down the value of A.

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.

⑥ Software Settings



1、Open Cura

2、Settings→Printer→Manage Printers

3、Machine Settings

4、change "G28" to "G28 X0 Y0 G29 Z0"