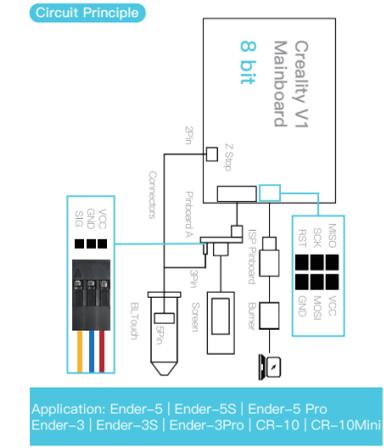


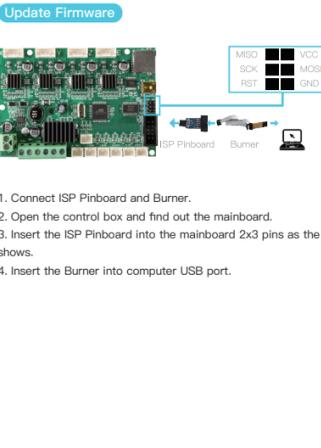
BLTouch Manual

AUTO BED LEVELING SENSOR FOR 3D PRINTER

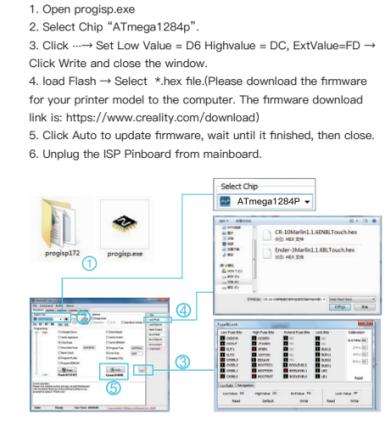
Apply to 8-bit motherboards



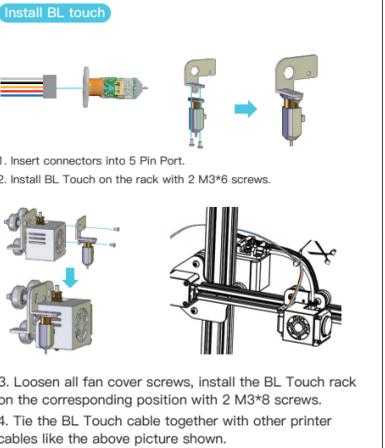
Application: Ender-5 | Ender-5S | Ender-5 Pro
Ender-3 | Ender-3S | Ender-3Pro | CR-10 | CR-10Mini



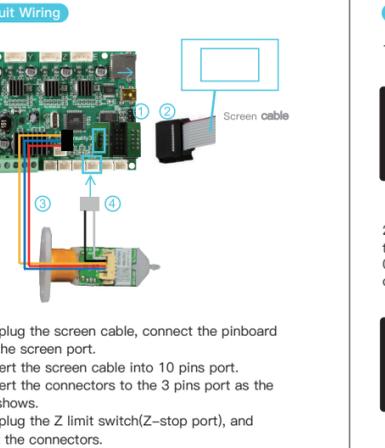
1. Connect ISP Pinboard and Burner.
2. Open the control box and find out the mainboard.
3. Insert the ISP Pinboard into the mainboard 2x3 pins as the sign shows.
4. Insert the Burner into computer USB port.



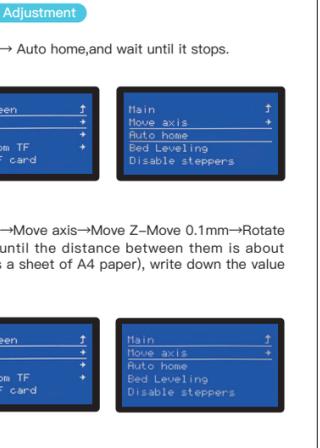
1. Open progisp.exe
2. Select Chip "ATmega1284p".
3. Click "----> Set Low Value = D6 HighValue = DC, ExtValue=FD --> Click Write and close the window.
4. load Flash --> Select *.hex file.(Please download the firmware for your printer model to the computer. The firmware download link is: <https://www.creality.com/download>)
5. Click Auto to update firmware, wait until it finished, then close.
6. Unplug the ISP Pinboard from mainboard.



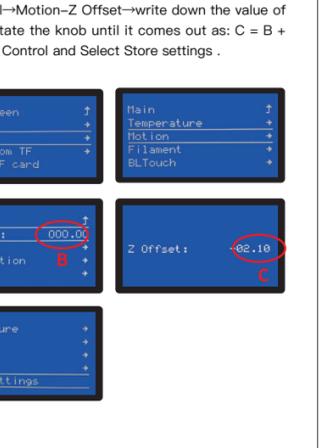
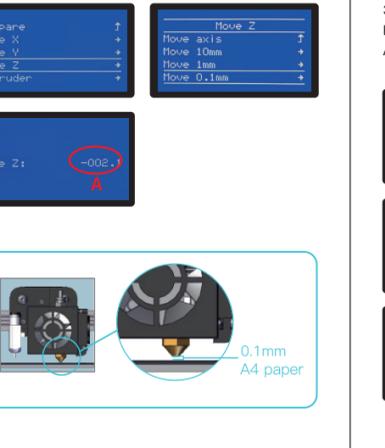
1. Insert connectors into 5 Pin Port.
2. Install BL Touch on the rack with 2 M3*6 screws.
3. Loosen all fan cover screws, install the BL Touch rack on the corresponding position with 2 M3*8 screws.
4. Tie the BL Touch cable together with other printer cables like the above picture shown.



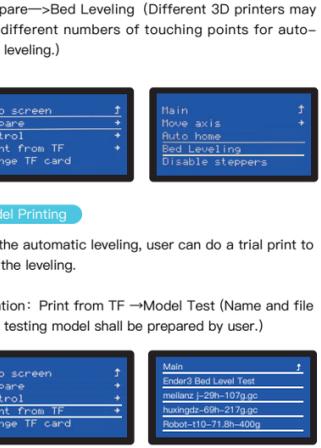
1. Unplug the screen cable, connect the pinboard A to the screen port.
2. Insert the screen cable into 10 pins port.
3. Insert the connectors to the 3 pins port as the sign shows.
4. Unplug the Z limit switch(Z-stop port), and insert the connectors.



- 1.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 0.1mm (as a sheet of A4 paper), write down the value of A.



- 3 . 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 .



- 4.Prepare->Bed Leveling (Different 3D printers may have different numbers of touching points for automatic leveling.)
- Model Printing
- After the automatic leveling, user can do a trial print to verify the leveling.
- Operation: Print from TF ->Model Test (Name and file of the testing model shall be prepared by user.)

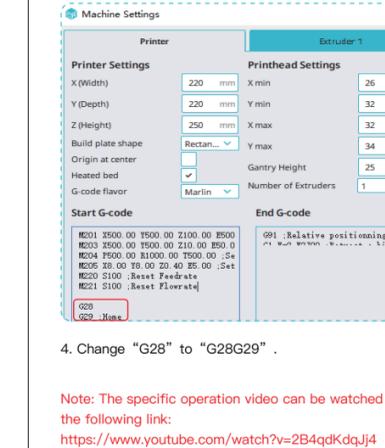
Test passed: leveling is completed and you can print now;

Test failed:If model printing fails, please fine-tune Probe Z Offset again and save settings until the printing effect is good.

Note: Every machine has its own operation interface.



1. Open Slicer.
2. Settings -> Printer -> Manage Printers.
3. Machine Settings.



4. Change "G28" to "G28G29" .

Note: The specific operation video can be watched at the following link:
<https://www.youtube.com/watch?v=2B4qKdqJ4>