CREALITY

BLTouch Manual

AUTO BED LEVELING SENSOR FOR 3D PRINTER

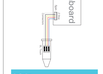
Model: BL-Touch/3D Touch/Smart V3.0

SHENZHEN CREALITY 3D TECHNOLOGY CO.,LTD.

1. Packing List

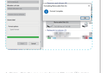
Note: Some BL Touch bundles, smarter V2.0 or V3.1 supply extra M3 anti-backlash nut and metal.

2. Install Firmware



Application:
Ender-3 Pro/Ender-3 V2/Ender-5 Pro/Ender-5 Plus/Ender-5 S/Ender-5 Max/CR-10S Pro/CR-10 Smart/CR-10 Max/CR-6 SE/CR-6 Max

3. Update Firmware



1. Right-click the mouse to format SD card (TF) Video Guide: https://www.youtube.com/watch?v=ni1zNUeR0i4 Format the SD card before flashing the firmware.

2. Copy the firmware to the SD card. Note: the SD card can only hold one firmware file.

2.Firmware download: Before downloading, please confirm your printer model, motherboard model and configuration(whether it comes with filament sensor or not).

Each printer model corresponds to the BL Touch firmware, please check appendix 1.

Note: Every machine has different firmware files. Please download from official website(Creality3dofficial): https://www.creality3dofficial.com/pages/download

3. Insert the power cord and press the switch.

4. Wait for the firmware to complete upgrade. (about 10 seconds)

4. Install BL Touch

1. Insert connectors into D-Pin Port.

2. Install BL Touch on the rack with 2 M3*8 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.

5. Control Wiring

Note: Unplug the cable from Z endstop/limit switch.

6. Test

1) Let the Z offset value

Operation: Preheat nozzle, Home >Move Axis> Move Z >Please stop to move Z axis when the distance between the nozzle and the printer bed is about 0.1mm (the thickness of a piece of A4 paper). The value shows Z offset value.

7. Install Firmware

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8. Test

2. Input the Z-axis compensation value(Z offset value).

Round the Z offset value, then follow below steps and save settings:

Control -> Auto home -> Control -> Bed Leveling -> Probe Z offset -> Input the Z offset value -> Store Settings.

Control
Motors Off
Home All
Home X
Home Y
Home Z
Babystep
Flow Rate
Feed Rate
Bed Leveling
Probe Offsets
Store Settings
Load Settings
Reset Settings
Babystep
Babystep Z
Babystep Z
Babystep Z