

CREALITY

CRTouch Manual

AUTO BED LEVELING SENSOR FOR 3D PRINTER

Apply to 32-bit motherboards

SHENZHEN CREALITY 3D TECHNOLOGY CO., LTD.

Packing List

CR Touch *1Pcs

Connectors *1Pcs

Tie *3Pcs

Application: Ender-3 MAX

Application: Ender-3 V2

M3*8 2Pcs

M3*6 2Pcs

Circuit Principle

Application: Ender-3 Series, Ender-5/5S/5Pro | CR-10

Update Firmware

1. Right-click the mouse to format SD card. (To make sure the firmware can be flashed successfully, please format the SD card before flashing the firmware)

2. Firmware download (before downloading firmware, please confirm your printer model, motherboard version, and hardware configuration—whether it comes with filament sensor or not).

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

Install CR Touch

1. Insert connectors into 5 Pin Port.

2. Install CR Touch on the rack with 2pcs M3*6 screws.

4. Tie the CR Touch cable together with other printer cables like the above picture shown.

Circuit Wiring

To connect CR Touch and 32-bit motherboard by 5 pin cable.

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

SHENZHEN CREALITY 3D TECHNOLOGY CO., LTD.
Add : 18F, JinYiKongDu Building, Melling Bld., Longhua Dist., Shenzhen, China 518131
Official Website: www.creality.com Tel: +86 755-8523 4555
E-mail: info@creality.com cs@creality.com

Steps

1. To get the Z offset Value

Operation: Prepare→Auto 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 height of a sheet of A4 paper). This value shows Z offset value.

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

Record the Z offset value, then follow below steps and save settings: Prepare → Auto home → Control → Bed Leveling → Probe Z offset → Input the Z offset value → Store Settings

3. Select Bed Leveling, then choose Level Bed.

Operation: Control→Bed Leveling→Level Bed. (Different 3D printers may have different numbers of touching points for automatic leveling. The picture here shows that Ender-3 has 9 points for leveling.)

4. Model Printing

After the automatic leveling, user can do a trial print to verify the leveling.

Operation: Print from SD Card→Model Test (Name and file of the testing model shall be prepared by user.)

Example:

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

Note: Every machine has its own operation interface.

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.

Software Settings

1. Open Slicer. 2. Settings → Printer → Manage Printers.

3. Machine Settings.

4. Change "G28" to "G28G29".

Appendix 1:

Model	Condition	Condition 2	Firmware Version
Ender-3	4.2.2 32-bit Motherboard Firmware	BLTouch without Adapter Board	Ender-3-Marin2.0.1-V1.1.1-BLTouch
	BLTouch with Adapter Board	Ender-3-Marin2.0.1-V1.3.1-BLTouch	
	BLTouch with Adapter Board + Filament Sensor	Ender-3-Marin2.0.1-V1.4.1-BLTouch+Filament	
	BLTouch without Adapter Board	Ender-3-Marin2.0.1-V1.1.2-BLTouch+TMC2225	
Ender-3 V2	4.2.7 32-bit Motherboard Firmware	BLTouch without Adapter Board	Ender-3 V2-Marin2.0.1-V1.1.1-BLTouch+TMC2225
	BLTouch with Adapter Board	Ender-3 V2-Marin2.0.1-V1.1.1-BLTouch+TMC2225	
	BLTouch with Adapter Board + Filament Sensor	Ender-3 V2-Marin2.0.1-V1.1.1-BLTouch+Filament+TMC2225	
	BLTouch without Adapter Board	Ender-3 V2-Marin2.0.1-V1.1.1-BLTouch+TMC2225	
Ender-3 MAX	4.2.2 32-bit Motherboard Firmware	BLTouch without Adapter Board	Ender-3 Pro-Marin2.0.1-V1.1.1-BLTouch
	BLTouch with Adapter Board	Ender-3 Pro-Marin2.0.1-V1.3.1-BLTouch	
	BLTouch with Adapter Board + Filament Sensor	Ender-3 Pro-Marin2.0.1-V1.4.1-BLTouch+Filament	
	BLTouch without Adapter Board	Ender-3 Pro-Marin2.0.1-V1.1.2-BLTouch+TMC2225	
Ender-3 Pro	4.2.2 32-bit Motherboard Firmware	BLTouch without Adapter Board	Ender-3 Pro-Marin2.0.1-V1.1.1-BLTouch
	BLTouch with Adapter Board	Ender-3 Pro-Marin2.0.1-V1.3.1-BLTouch	
	BLTouch with Adapter Board + Filament Sensor	Ender-3 Pro-Marin2.0.1-V1.4.1-BLTouch+Filament	
	BLTouch without Adapter Board	Ender-3 Pro-Marin2.0.1-V1.1.2-BLTouch+TMC2225	
Ender-5, 5S	4.2.7 32-bit Motherboard Firmware	BLTouch without Adapter Board	Ender-5-Marin2.0.1-V1.1.1-BLTouch+TMC2225
	BLTouch with Adapter Board	Ender-5-Marin2.0.1-V1.1.1-BLTouch+TMC2225	
	BLTouch with Adapter Board + Filament Sensor	Ender-5-Marin2.0.1-V1.1.1-BLTouch+Filament+TMC2225	
	BLTouch without Adapter Board	Ender-5-Marin2.0.1-V1.1.1-BLTouch+TMC2225	

Note: Creality will launch the newest firmware version on www.creality.com/download. Please download the corresponding firmware on official website.