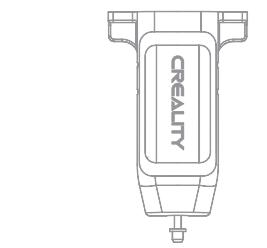


CRTouch Manual

AUTO BED LEVELING SENSOR FOR 3D PRINTER

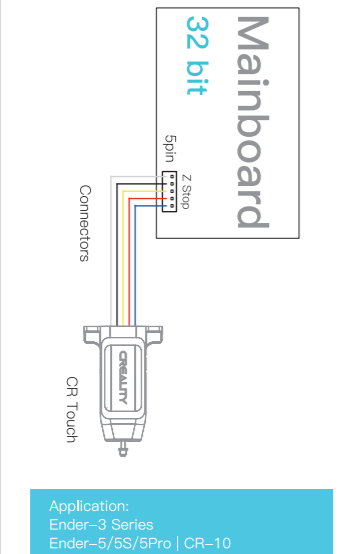
Apply to 32-bit motherboards



Packing List

- CR Touch *1Pcs
 - Connectors *1Pcs
 - Tie *3Pcs
 - M3*8 2Pcs
 - M3*6 2Pcs
- Application: Ender-3 | Ender-3s | CR-10 | Ender-3Pro | Ender-5/5S/5Pro
- Application: Ender-3 MAX
- Application: Ender-3 V2

Circuit Principle



Update Firmware

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

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

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

File download website: <https://www.creality.com/download/>

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

4. Insert SD card.
5. Insert the power cord and press the switch.

Note: Every machine has its own operation interface.

Install CR Touch

1. Insert connectors into 5 Pin Port.
2. Install CR Touch on the rack with 2pcs M3*6 screws.

3. Loosen all fan cover screws, install the CR Touch rack on the corresponding position with 2pcs M3*8 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.

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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)

3. Select Bed Leveling, then choose Level Bed.

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 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	BLTouch without Adapter Board	Ender-3-Marin2.0.1-V1.1.2-BLTouch
	BLTouch with Adapter Board	Ender-3-Marin2.0.1-V1.3.1-BLTouch	Ender-3-Marin2.0.1-V1.3.1-BLTouch
Ender-3 V2	4.2.7 32-bit Motherboard	BLTouch without Adapter Board	Ender-3 V2-Marin2.0.1-V1.1.2-BLTouch+Filament
	BLTouch with Adapter Board	Ender-3 V2-Marin2.0.1-V1.1.2-BLTouch+Filament	Ender-3 V2-Marin2.0.1-V1.1.2-BLTouch+Filament
Ender-3MAX	4.2.2 32-bit Motherboard	BLTouch without Adapter Board	Ender-3 V2-Marin2.0.1-V1.1.1-BLTouch+Filament
	BLTouch with Adapter Board	Ender-3 V2-Marin2.0.1-V1.1.1-BLTouch+Filament	Ender-3 V2-Marin2.0.1-V1.1.1-BLTouch+Filament
Ender-3Pro	4.2.2 32-bit Motherboard	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	Ender-3 Pro-Marin2.0.1-V1.3.1-BLTouch
Ender-5, 5S	4.2.7 32-bit Motherboard	BLTouch without Adapter Board	Ender-5-Marin2.0.1-V1.1.1-BLTouch+Filament
	BLTouch with Adapter Board	Ender-5-Marin2.0.1-V1.1.1-BLTouch+Filament	Ender-5-Marin2.0.1-V1.1.1-BLTouch+Filament

Ender-5 Pro	4.2.2 32-bit Motherboard	BLTouch without Adapter Board	Ender-5 Pro-Marin2.0.1-V1.1.1-BLTouch
	BLTouch with Adapter Board	Ender-5 Pro-Marin2.0.1-V1.3.1-BLTouch	Ender-5 Pro-Marin2.0.1-V1.3.1-BLTouch
CR-10	4.2.7 (32-bit Silent Motherboard)	BLTouch without Adapter Board	CR-10-Marin2.0.1-20210707-HY-V4.2.7-SW-V1.1.1 BL Touch-English
	BLTouch with Adapter Board	Ender-5 Pro-Marin2.0.1-V1.4.1-BLTouch+Filament	Ender-5 Pro-Marin2.0.1-V1.4.1-BLTouch+Filament

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