Step 1: Level Corners

- 1. Make sure the hotbed and nozzle are cool, clean the filament on the nozzle.
- 2. Turn on the 3d printer.
- 3. Do Montion>> Bed Leveling>> Auto HOME(Fig1).
- 4. See Montion>> Bed Leveling>> Bed Leveling: OFF, if it is ON, set to OFF(Fig2).
- 5. Do Montion>> Bed Leveling>> Level Corners(Fig3).
- 6. Adjust the screws under the hotend, let the nozzle almost to touch the hotend in the four corners (following the wizard)(Fig4).



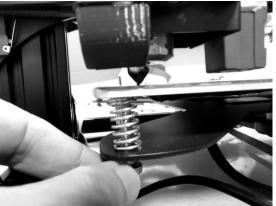


Fig4

NOTE: If the nozzle or Z ENDSTOP is moved, you need to do this step again.

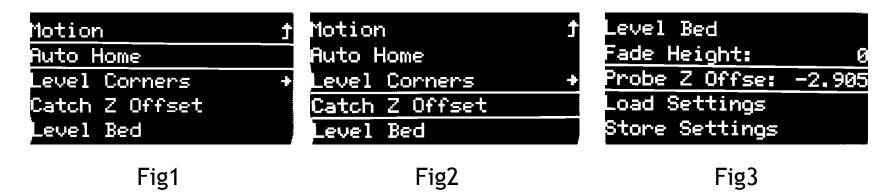


Step 2: Catch Z offset

NOTE: It is recommended that the hot bed be heated to about 60 ° for this test.

- 1. Do Montion>> Bed Leveling>> Auto HOME(Fig1).
- 2. Do Montion>> Bed Leveling>> Catch Z Offset(Fig2).
- 3. Wait the catching done, check the Z offset:

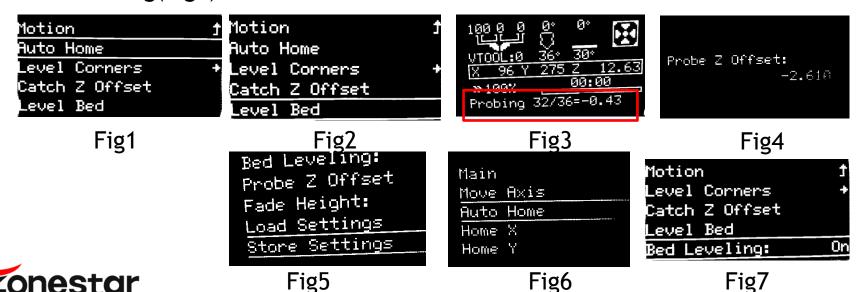
Do Montion>> Bed Leveling>> Probe Z Offset(Fig3).





Step 3: Level Bed

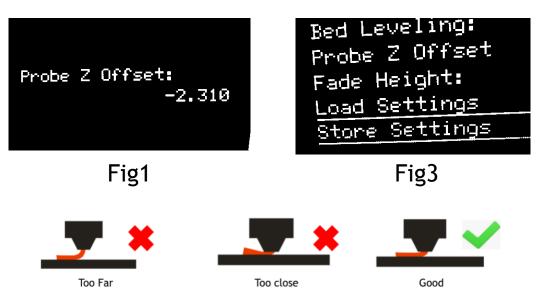
- 1. Do Montion>> Bed Leveling>> Auto HOME(Fig1).
- 2. Do Montion>> Bed Leveling>> Level Bed(Fig2).
- 3. Watch the measure value, if all of these values are less than 0, it means the "probe Z offset" is too small. (Fig3)
- 4. Try to add "probe Z offset" (Fig4) a little and then store settings (Fig5).
- 5. Do 1 and 2 again. (MUST DO AUTO HOME after changed Probe Z offset)
- 6. After fine tune, the value should be within -0.3mm~0.3mm, and most of the value should be within 0.1mm~0.1mm.
- 7. Wait for the end of the test. Operate Auto Home again, the auto leveling will change from off to on. It indicates that the automatic leveling feature is working (Fig7).

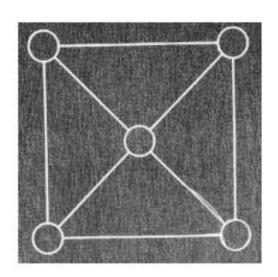


Step 4: Verification

Now you can try to print a test file to verfiy the bed auto leveling result

- Copy level_test_310.gcode to SD card.
- 2. Print it from SD card.
- When printing started, double click (click twice in one second) the knob to open Probe Z offset menu (fig1)
- 4. Rotate the knob and watch the nozzle, let the nozzle is higher than the hotbed about 0.3mm (fig2).
- 5. Do on the MENU>>Configuration>>Store settings (fig3)





Print result

Apply auto leveling feature

Auto leveling feature will be disable automatically when the printer reset, you can turn it on manually or let it do automatically every time when printing from SD card.

- Appling it by manually:
- 1. Motion>> Bed Leveling>> Level Bed >>Auto Home
- 2. Motion>> Bed Leveling>> Level Bed >>bed leveling: OFF → Change to ON ATTENTION: After do these 2 steps, the printer will apply the hotbed auto leveling correction by using the stored parameters in the last time, it may incorrect.
- Leveling the hotbed at each printing from SD card(Recommend):
 You can also add a G29 command to the "start gcode" of slicing software, it will level the bed in the star of printing.

