ZONESTAR

How to Adjust Z offset and level the hotbed

Ver: 2.0

Prepare

- If your printer has 2 Z-axis motors, please set left and right side to the same height.
- Clean nozzle and bed: make sure there aren't any filament at the end of nozzle, if not, remove it by a diagonal pliers, and then clean the bed.
- Tighten the screws under the bed, let hotbed on the lowest position.
- If there is a "z offset adjusting screw" on the carrier of Z axis, or the Z ENDSTOP is movable at different height, please refer to page 3 to adjust the "Z offset adjusting screw" or move the Z ENDSTOP installation position to set the Z offset first.

Corresponding Printer Model:

P802C, P802N, P802Q, M8, D805S, D806, Z5, Z6, Z8X, Z9

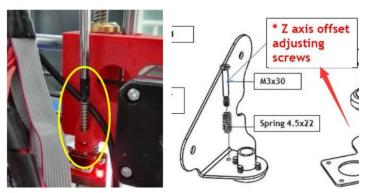
For some new printer made by zonestar, the Z endstop is fixed and there isn't "Z offset adjusting screw", you can set the Z offset in Menu, please refer to page 4 to set the Z offset.

Corresponding Printer Model:

Z10

Debug Z axis height

- Power off, move the nozzle to above of the center of hot bed by hand.
- Move down the hot end or move up the bed by rotating the coupling of the Z-axis motor until the nozzle is closer the bed (about 1mm heigher than the bed, please ensure that the left and right side are placed at the same height.).
- Adjust the "Z offset adjusting screw" or move the Z endstop, let the Z ENDSTOP can be triggered (switch to ON from OFF) in this height.
- Goto page 5 to level the bed.



Adjust the "Z offset adjusting screw"



Adjust the "Z endstop"



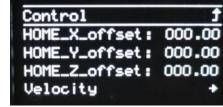
Rotate "Z motor coupling"

Set Z Offset on LCD Menu

- "Prepare">> "Auto Home">>, wait the hotend go to the orig position. Then watch the nozzle position, if it is above of the nozzle, move the Z-ENDSTOP to lower position or loosen the screws under the hotbed, then do "Auto home" again.
- "Prepare">> "Move axis">>"Move Z">>"Move 10mm", move up nozzle to above of the bed.
- "Prepare">> "Move axis">>"Move X(Y)">>"Move 10mm", move the nozzle to center of the bed.
- "Prepare">> "Move axis">>"Move Z">>"Move 0.1mm", move down the nozzle, let it just touch the bed, remember the current Z position(e.g.: 2.0mm)
- "Control">> "Motion">>"HOME_Z_Offset xx.xx",adjust this value to the above value, but opposite in sign(e.g. -2.00).
- "Control">> "Store settings".









Auto Home

Move nozzle to center of bed

Set Home_Z_offset

Stored



Level the bed

- Choose "Prepare">> "Auto Home">>, wait the hotend go to the orig position."
- Choose "Prepare">> "Level Corners">>, the nozzle will go to the first corner, adjust the hand nuts under the bed, let the nozzle almost touch the bed. In order to get a properly distance, you can put a A4 paper on the bed, and when the distanse between the nozzle and bed can only insert a paper, it will be perfect.
- Choose "next corner", and adjust the screw under the nozzle. Repeat this step again and again, until all of the four corner at almost the same height.
- After started to print, double click the knob of LCD menu and set the "babystep z" if the distance is not perfect, let the filament can stick on the bed well.







Home all axis

Start "level corners" wizard

Adjust bed height

put a paper on the bed to measure the height