

Setting the Home Offsets for Micro Swiss Direct Drive Extruder kit Leveling probe installed with generic or Creality Marlin Firmware

Adjusting origin offsets

```

770 // Direction of endstops when homing; 1=MAX, -1=MIN
771 // :[-1,1]
772 #define X_HOME_DIR -1
773 #define Y_HOME_DIR -1
774 #define Z_HOME_DIR -1
775
776 // @section machine
777
778 // The size of the print bed
779 #define X_BED_SIZE 235
780 #define Y_BED_SIZE 235
781
782 // Travel limits (mm) after homing, corresponding to endstop positions.
783 #define X_MIN_POS -5
784 #define Y_MIN_POS -10
785 #define Z_MIN_POS 0
786 #define X_MAX_POS X_BED_SIZE
787 #define Y_MAX_POS Y_BED_SIZE
788 #define Z_MAX_POS 250
789
790 // If enabled, axes won't move below MIN_POS in response to movement commands.
791 #define MIN_SOFTWARE_ENDSTOPS
792 // If enabled, axes won't move above MAX_POS in response to movement commands.
  
```

We will need to modify two lines of the code in Configuration.h tab.

- Open Configuration.h tab and find these lines:

```
#define X_MIN_POS
#define Y_MIN_POS
```

- Add negative offsets amount to each line:

```
#define X_MIN_POS -5
#define Y_MIN_POS -10
```

- Flash the firmware
- Offsets amount might need to be slightly tweaked for different printers

Step 27 – Fine tune



Extruder steps/mm needs to be calibrated.
Good starting point is 130 steps/mm

- Download this custom [G-code](#) file to your SD card and run it in your printer. This will set the steps/mm to 130.
- For best results, you will have to fine tune the extrusion multiplier/flow rate in your slicer.

The installation is now complete!

Tips and Tricks

- Reduce the retraction amount. Maximum recommended retraction is 1.5mm @ 35mm/sec.
- With All Metal Hotend, the nozzle temperature might need to be increased by 5-10 °C.
- Make sure the Z-axis rail wheels are adjusted properly to eliminate rail sagging.
- Download and print the [Extruder Knob](#) from Thingiverse. This makes the manual filament changing process very easy.