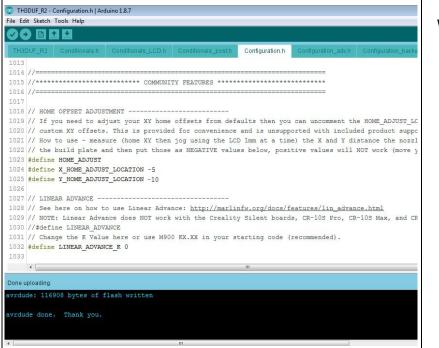# Setting the Home Offsets for Micro Swiss Direct Drive Extruder kit
Leveling probe installed with TH3D Unified Firmware

Adjusting origin offsets

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

- Open Configuration.h tab and find these lines:

  #define X_HOME_ADJUST_LOCATION
  #define Y_HOME_ADJUST_LOCATION

- Add negative offsets amount to each line:

  #define X_HOME_ADJUST_LOCATION -5
  #define Y_HOME_ADJUST_LOCATION -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.