3D PRINTING AND DESIGN REFERENCE DOCUMENT	
Document Title:	K1/K1C/K1 MAX extruder current reduction
Document No.:	1718617377
Author(s):	jattie
Contributor(s):	

REVISION HISTORY

| Revision	Details of Modification(s)	Reason for modification	Date	By
0	Draft release	How to reduce extruder motor current on K1 printers	2024/06/17 09:42	jattie

K1 Motor Current reduction

The Creality K1 printers[1] are overheating the extruder motors because the motor current are by default too high causing excessive motor heat during long print jobs.

In order to access the extruder motor current parameters you need to have a rooted setup. The most comprehensive easy to use method to get this set up can be found here: enable root access
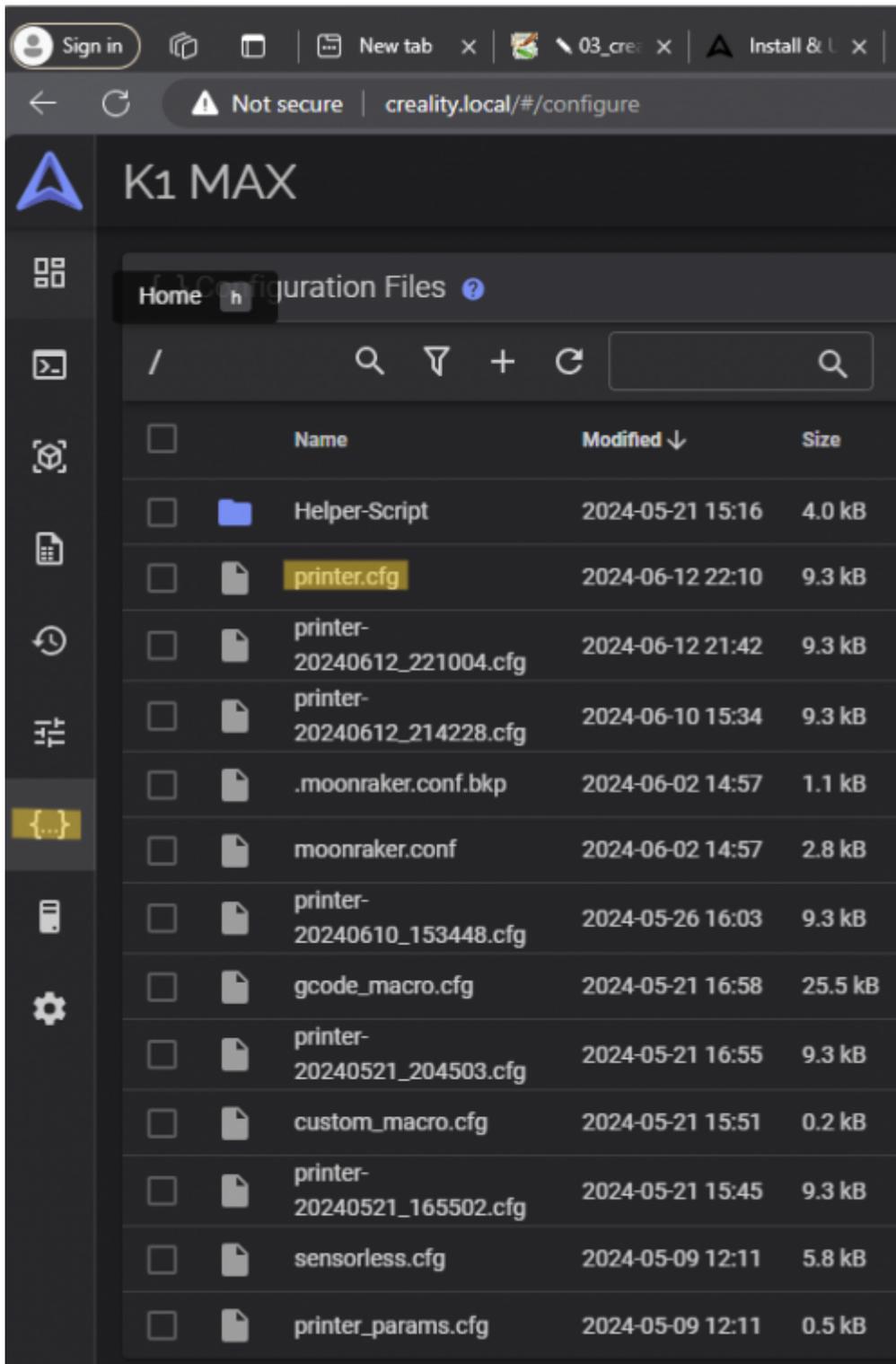
In the Klipper environment select the config menu {} on the left and select the `printer.cfg` file.
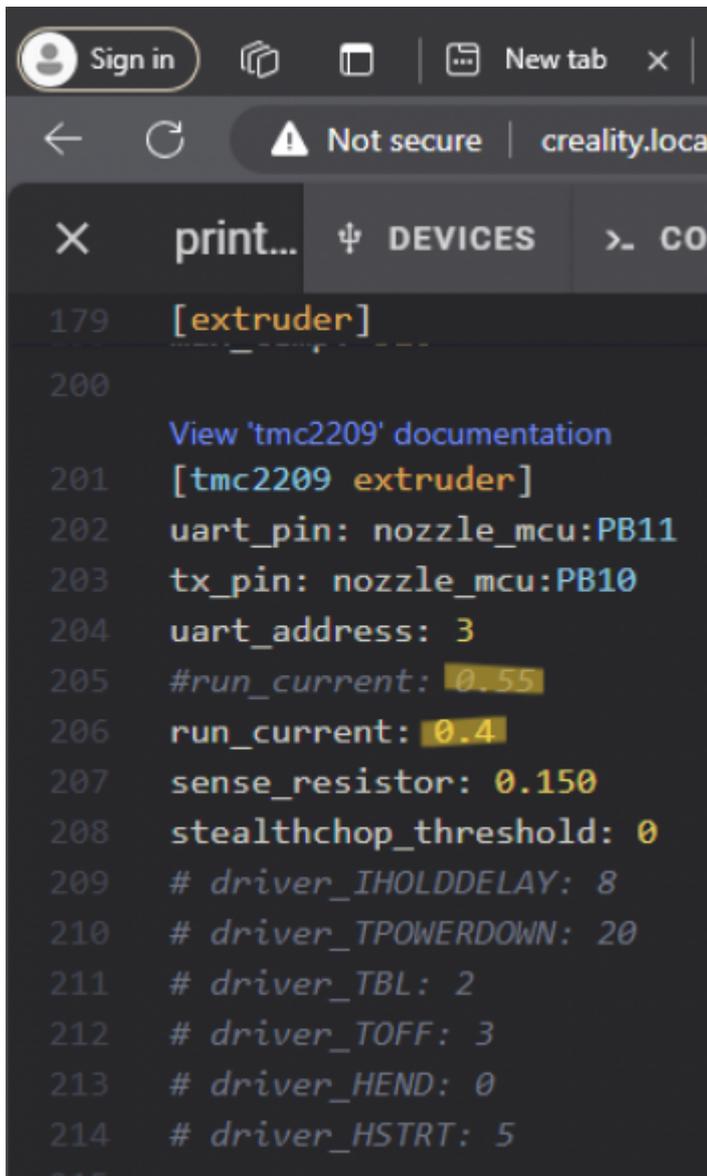
```
179    [extruder]

200

       View 'tmc2209' documentation
201    [tmc2209 extruder]
202    uart_pin: nozzle_mcu:PB11
203    tx_pin: nozzle_mcu:PB10
204    uart_address: 3
205    #run_current: 0.55
206    run_current: 0.4
207    sense_resistor: 0.150
208    stealthchop_threshold: 0
209    # driver_IHOLDDELAY: 8
210    # driver_TPOWERDOWN: 20
211    # driver_TBL: 2
212    # driver_TOFF: 3
213    # driver_HEND: 0
214    # driver_HSTRT: 5
```

Edit `line 205` to look like `line 206`. Select save and restart.

The extruder motor current is now reduced and the motor should run substantially cooler.

1)
https://3dprintbeginner.com/creality-k1-review-corexy-for-tinkerers/

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Permanent link:
http://www.3dfaq.net/05_creality_k1/01_reduce_extruder_current

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