

**3D PRINTING AND DESIGN REFERENCE DOCUMENT**

<b>Document Title:</b>	K1/K1C/K1 MAX extruder current reduction
<b>Document No.:</b>	1718617377
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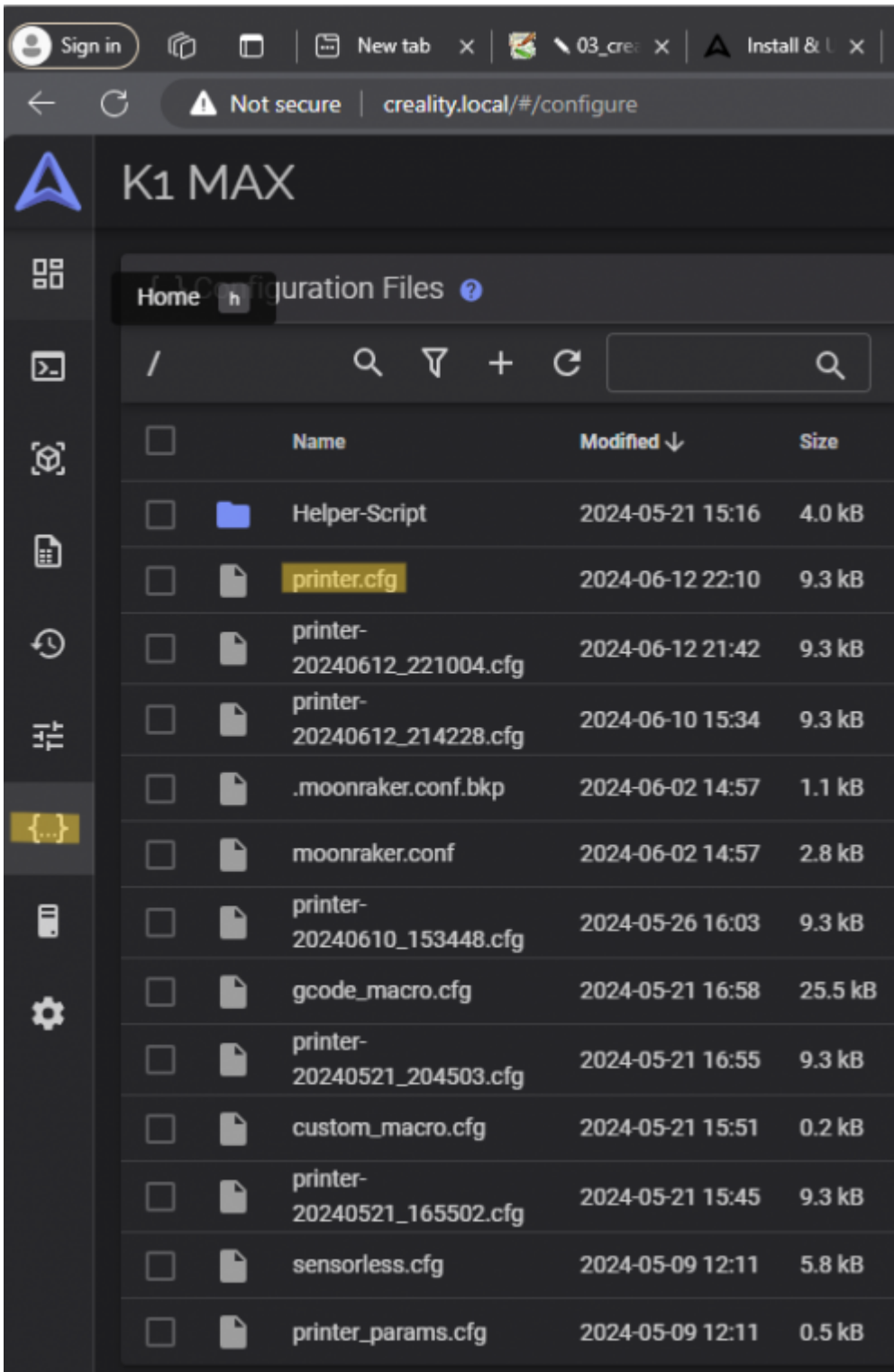
**REVISION HISTORY**

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

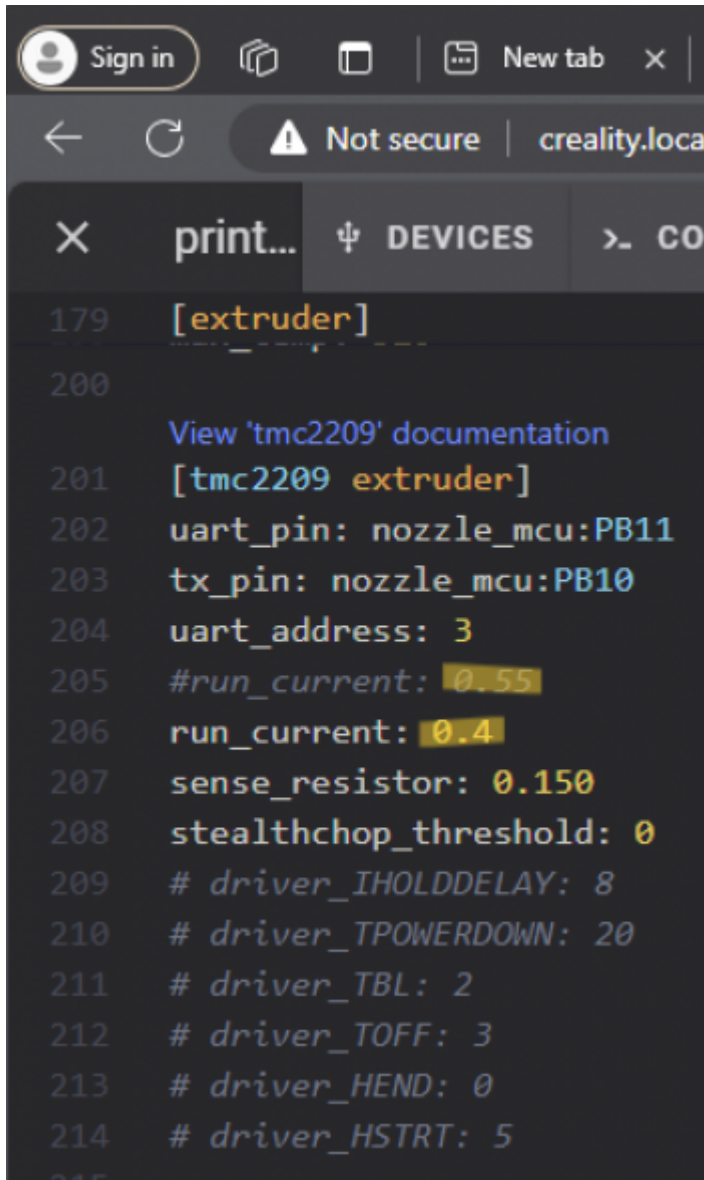
## K1 Motor Current reduction

The Creality K1 printers<sup>11</sup> 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
201 View 'tmc2209' documentation
202 [tmc2209 extruder]
203 uart_pin: nozzle_mcu:PB11
204 tx_pin: nozzle_mcu:PB10
205 uart_address: 3
206 #run_current: 0.55
207 run_current: 0.4
208 sense_resistor: 0.150
209 stealthchop_threshold: 0
210 # driver_IHOLDDELAY: 8
211 # driver_TPOWERDOWN: 20
212 # driver_TBL: 2
213 # driver_TOFF: 3
214 # driver_HEND: 0
215 # 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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