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Line 446

AUTOTEMP: minimum and maximum temperature control we set the minimum temperature M109/M104 instead of PID\_EXTRUSION\_SCALING

Example: At 5 mm/s, target = 200 + 0 + 1 \* 5 = 205°C

Section: High Temperature Thermistor Support

Line 458  
SHOW\_TEMP\_ADC\_VALUES not needed + it requires extra pin  
  
line 480

MAX\_CONSECUTIVE\_LOW\_TEMPERATURE\_ERROR\_ALLOWED modified while testing

Section: extruder

Line 498 EXTRUDER\_RUNOUT\_PREVENT prevent the jamming of hot fillment

While the machine isn’t printing or paused

Line 511 HOTEND\_IDLE\_TIMEOUT required to stop the heater when the machine is paused

Section temperature

USE\_CONTROLLER\_FAN we have no fan for drivers

Section Fans  
line 562

FAN\_KICKSTART\_TIME   to control the fans after reaching a reliable speed

FAN\_KICKSTART\_POWER

Line 566  
 FAN\_OFF\_PWM   some fans make strange behaviors if the the off sate is 0  
line608

FAST\_PWM\_FAN reduces the pwm noise  
  
  
section case\_ light معندنااااااش

Line 729

Section end stops: to be modified during calibration

section extras

line733

Z\_LATE\_ENABLE to prevent the overheating for z drivers and power consuming

Section homing

Line 888  
homing method we picked the default mood using G28

Line 895 Section bltouch :

Default is set and we will make a calibration later if we found Singal errors

Line 965 section calibration:

Line 971 defines Z\_STEPPER\_AUTO\_ALIGN

1032 tramming: leveling the bed using g-code (manual leveling) to be activated if there is a problem in adjusting the bed level

Line 1061 section motion control

1085 INPUT\_SHAPING\_X

INPUT\_SHAPING\_Y: to reduce the noises and damping the machine vibrations

Line 1101 section motion  
AXIS\_RELATIVE\_MODES: absolute mode is activated and marlin switches between relative and absolute depending on the mode

Line 1108: changed the value from false to true in invertpins

line1158  XY\_FREQUENCY\_LIMIT **limit zigzag movement frequency**

line1215 calibration G- code: comment if you don't physically probe against objects for calibration.

Line 1277 #define ADAPTIVE\_STEP\_SMOOTHING

Line 1294 section stepper motor not used

Line 1444