Marlin 2.0 on the SKR 1.3 with TMC2208 and Sensorless Homing

Configuration.h file

* (76): STRING\_CONFIG\_H\_AUTHOR "(JAM 19Jul20 , Ender-3 Pro with SKR 1.3 & TMC2208)"
* (109): #define SERIAL\_PORT 0 🡪 -1
* (115): //#define SERIAL\_PORT\_2 -1 🡪 0
* (126): #define BAUDRATE 115200 🡪 250000
* (133): #define MOTHERBOARD BOARD\_MELZI\_CREALITY 🡪 BOARD\_BTT\_SKR\_V1\_3
* (693): //#define X\_DRIVER\_TYPE A4988 🡪 TMC2800
* (694): //#define Y\_DRIVER\_TYPE A4988 🡪 TMC2800
* (695): //#define Z\_DRIVER\_TYPE A4988 🡪 TMC2800
* (701): //#define E0\_DRIVER\_TYPE A4988 🡪 TMC2800
* ~~(1089): #define INVERT\_X\_DIR true 🡪 false~~
* ~~(1090): #define INVERT\_Y\_DIR true 🡪 false~~
* ~~(1091): #define INVERT\_Z\_DIR false 🡪 true~~
* (1096): #define INVERT\_E0\_DIR false 🡪 true
* (1505): #define PREHEAT\_1\_TEMP\_HOTEND 205 🡪 215
* (1506): #define PREHEAT\_1\_TEMP\_BED 45 🡪 60
* (1944): //#define REPRAP\_DISCOUNT\_FULL\_GRAPHIC\_SMART\_CONTROLLER 🡪 Installs TFT35 Display

Configuration\_adv.h file

* (633): #define HOMING\_BUMP\_MM { 5, 5, 2 } 🡪 { 0, 0, 2 }
* (2213): #define X\_CURRENT 580 🡪 760
* (2229): #define Y\_CURRENT 580 🡪 760
* (2245): #define Z\_CURRENT 580 🡪 760
* (2277): #define E0\_CURRENT 580 🡪 900
* (2437): //#define MONITOR\_DRIVER\_STATUS 🡪 Enable

Notes:

\* Relevant G-codes:

\* M906 - Set or get motor current in milliamps using axis codes X, Y, Z, E. Report values if no axis codes given.

\* M911 - Report stepper driver overtemperature pre-warn condition.

\* M912 - Clear stepper driver overtemperature pre-warn condition flag.

\* M122 - Report driver parameters (Requires TMC\_DEBUG)

* (2532): //#define TMC\_DEBUG 🡪 Enable

Platformio.ini file

(21): default\_envs = mega2560 🡪 LPC1768

Reference:

Marlin 2.0 on the SKR 1.3 with TMC2209 and sensorless homing

https://www.youtube.com/watch?v=0PEGNj5m90o

Ender 3 Pro Case Extended Remix (Stock, SKR 1.3, Mini E3, MLK + Raspberry Pi 3/4)

<https://www.thingiverse.com/thing:4107156>

Squash Ball Feet for Ender 3

<https://www.thingiverse.com/thing:3044013>