



# V6 RepRap Firmware Configuration

Set up your RepRap Firmware to support your new E3D HotEnd

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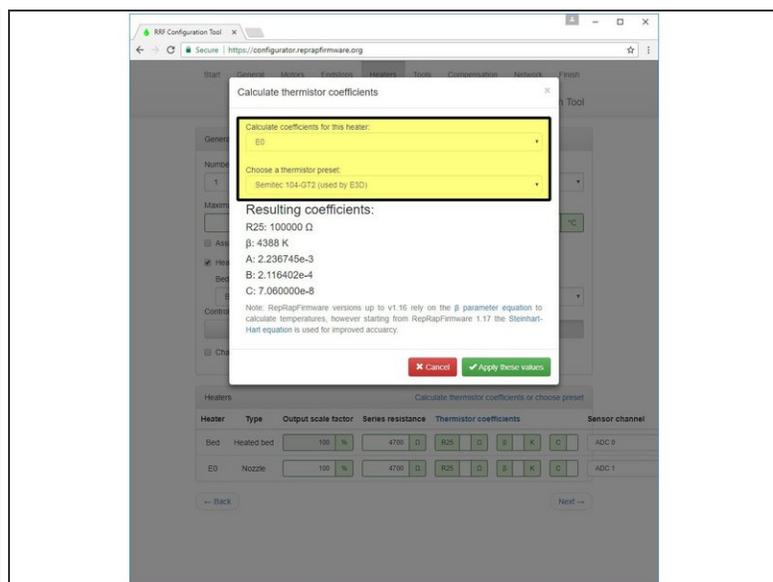
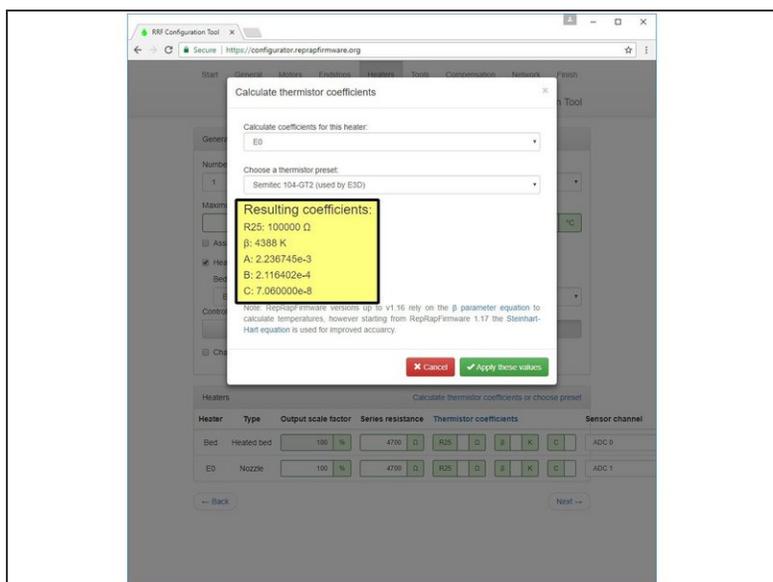


## Step 1 — Download RepRap Firmware



- First things first: you're going to need a copy of RepRap Firmware.
  - Either download a fresh version from GitHub, or edit your existing one.
  - You can edit your existing firmware either through the online [configuration tool](#), or through G-Code.
-  If you download a fresh version of RepRap Firmware you'll have to configure more settings than the ones mentioned in this guide so that it will work well with your printer.

## Step 2 — Thermistor Settings



### ● Manual Editing:

- For firmware versions 1.16 and earlier, use the following G-Code command in the config.g file on the SD card: M305 P1 B4388
- For firmware versions 1.17 and later but lower than 3.0, use following command instead: M305 P1 B4725 C7.060000e-8
- For firmware versions 3.0 and later, use following command instead: M308 P1 B4725 C7.060000e-8

### ● Online Tool:

- Click on the Calculate Thermistor Coefficients button in the Heaters tab, and select Semitec 104-GT2 (used by E3D) from the drop-down menu.
- with the most recent versions of the repprap firmware the following parameters should be used:

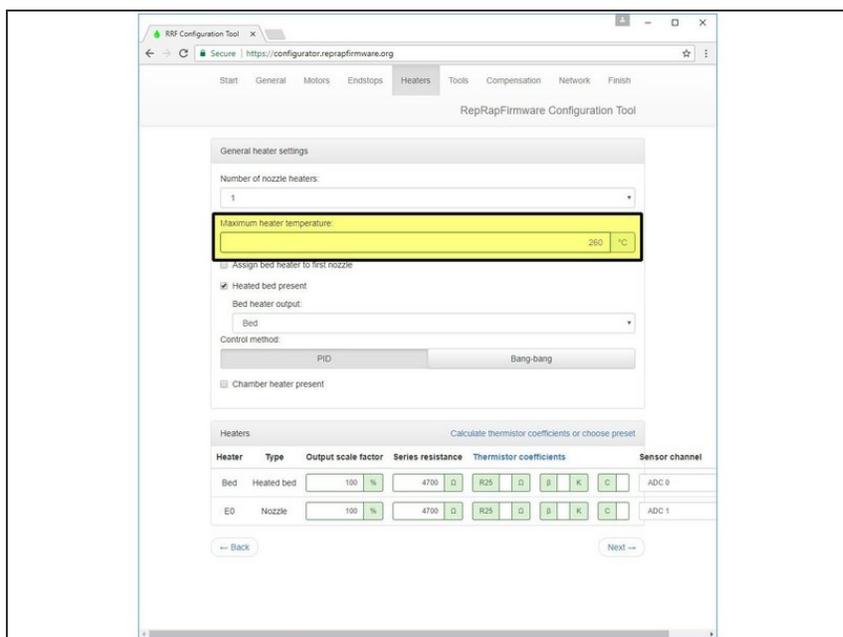
## Step 3



**i** Update, For the most recent version of the reap rap firmware you should be using the following parameters for the thermistor.

- T parameter: 100 000
- B parameter: 4725
- C parameter: 7.06e-8

## Step 4 — Update Safety Settings



### **i** Manual editing:

- Update your maximum temperature by sending the following G-Code command to your printer: M143 S285

**i** While the V6's metal components can handle very high temperatures, the included thermistor cartridge will struggle with temperatures over 285°C (if you want to go higher, get a PT100).

### ● Online Editing:

- Update your maximum temperature by going to the heaters tab and changing the option to 285.

## Step 5 — Upload Firmware



- Simply restart your printer for your new values to come into effect.

**i** If you're unsure of how to update your printer's firmware, check with its manufacturer.

Head back to the [V6 Assembly page](#) to finish the last few steps before you start printing.