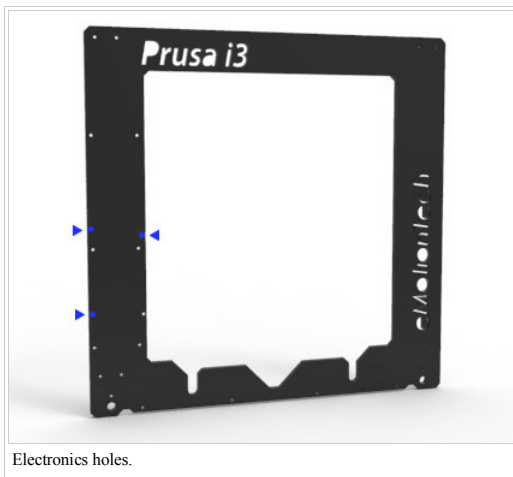


Step 3

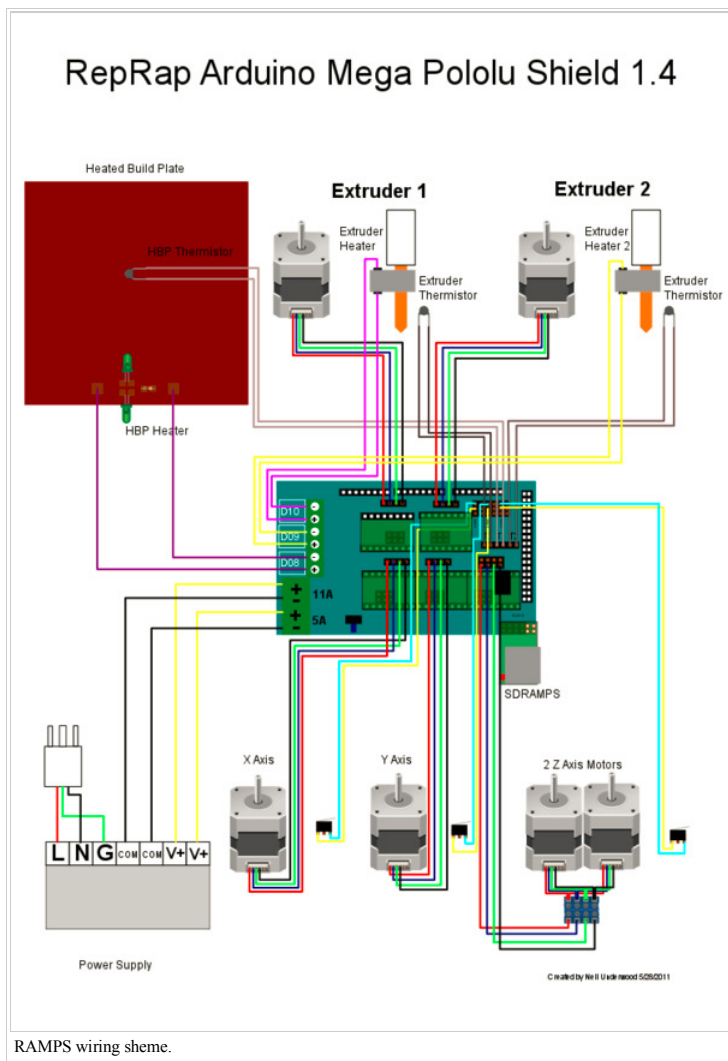
Fix the electronics assembly to the rear of the aluminum plate with three Arduino washers used to electrically insulate it. Power supply plugs are oriented UPWARD (original wiki entry here said downward but the hole orientation of the real Prusa I3 will not allow that). Use three M3x24 mm screws, three Ø3 mm washers (on the RAMPS) and three M3 nuts.



Wiring

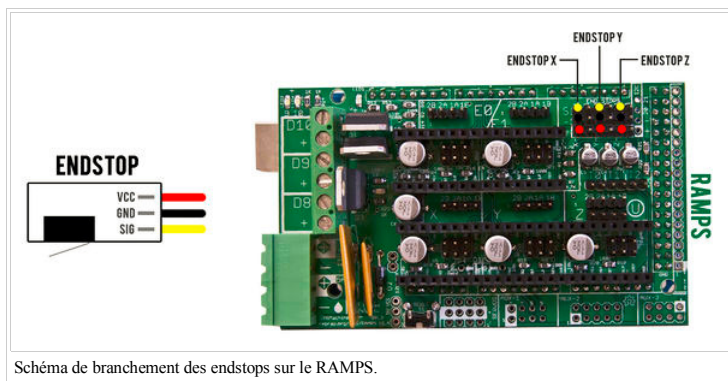
All electrical connections are summarized on the following scheme : LIEN PAGE REPRAP

Note : The second extruder may be replace by a fan to cool the print.



Endstop wiring

Plug the three endstops to the RAMPS with three connecting wires (wires with an « Endstop » mark) according to the following wiring scheme :



Motors wiring

You have to connect both Z-axis NEMA 17 motors to work in parallel. To do that, weld both power supply wires (cut in a previous step) according to their colors : red/red, green/green, blue/blue and black/black. We strongly recommend you to protect each weld with heat shrink tubing or an insulating adhesive tape.

NEMA 17 wires color can change depending on the supplier and there is no risk in case of a wrong wiring. Indeed, the wires are always associated in pairs (one pair for each coil). SO there is no risk if the color of supply wires doesn't match the wiring diagram.

Hot End resistor and PCB heatbed wiring

The Hot End (or extruder) resistor is not polarized and is plugged to **D10**.

PCB heatbed is plugged to **D08**. Make sure to not invert the positive and negative poles.

Thermistors wiring

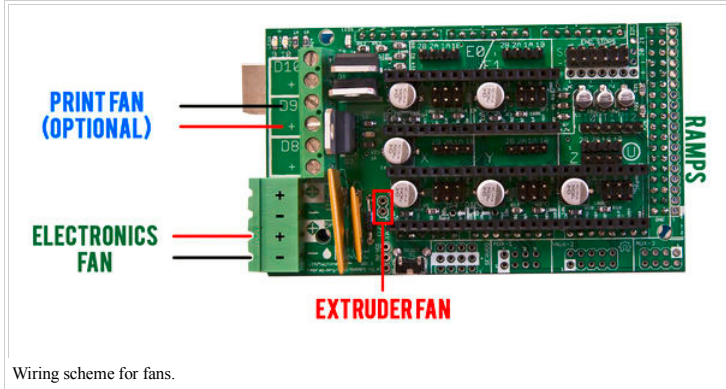
The thermistor is not polarized. Make sure to not invert the PCB heated thermistor and the Extruder thermistor.

Fans wiring

Plug the extruder fan directly to its dedicated power supply pins (see illustration below).

If you have a fan which cools the electronics then plug it directly to the RAMPS.

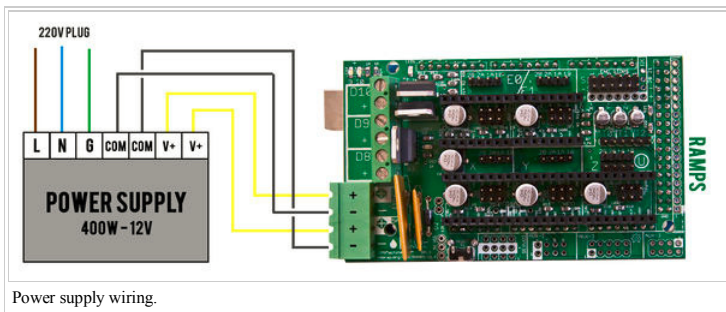
If you have a fan which cools the print then plug it to **D9**.



Power supply wiring

The principle power supply wire is not included. You have to strip an end of a power cable and to connect to the power supply (L, N, G plugs). Make sure to do this operation properly.

The power supply is connected to the RAMPS with additional connecting wires. You have to strip both ends, make sure to follow the scheme correctly.



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