

How to replace the thermistor and heater cartridge

FELIX Pro 1

11 June 2016

Revision 1



1 Introduction

In case when the thermistor or heater cartridge is defect, it can easily be replaced. This tutorial describes the necessary steps.

2 Replacing the thermistor and heater of the hot end

The tools you need to replace the thermistor and heater of the Pro 1 hot-end:

- Allen key 1.5

2.1 1. Taking the hot-end out of the machine

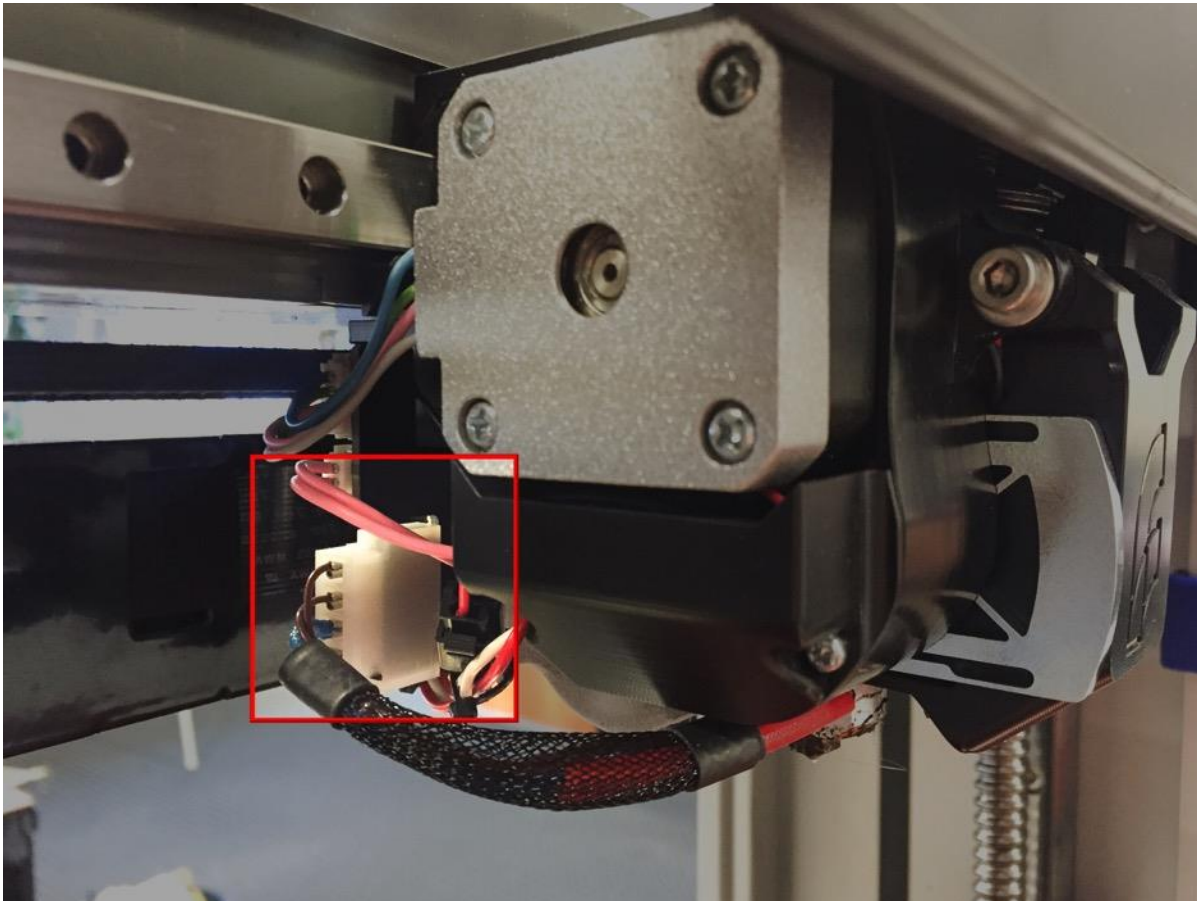
Warning: When filament is still loaded into the FELIX Pro 1, the hot-end cannot be removed

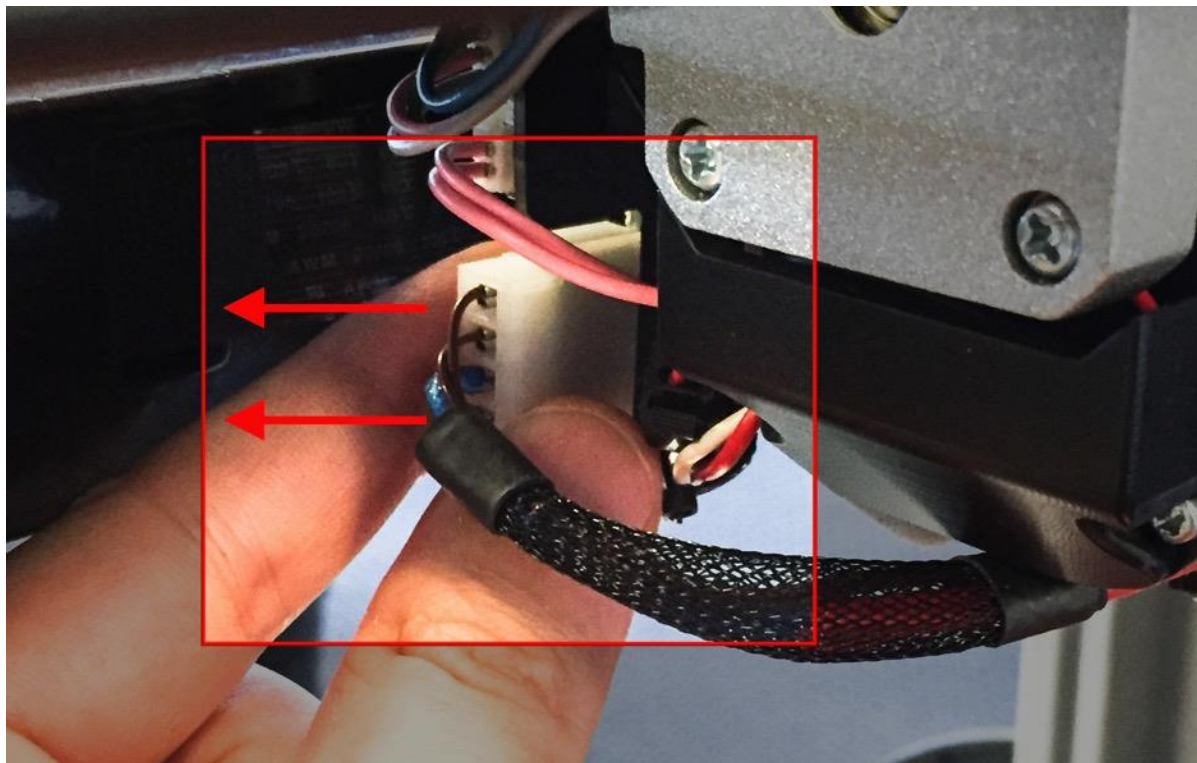
The first step is to take the hot-end out of the Pro 1. Before this is possible, the filament that is in the machine should be removed. When the filament is removed, let the hot-end fully cool down.

Turn off the FELIX Pro 1

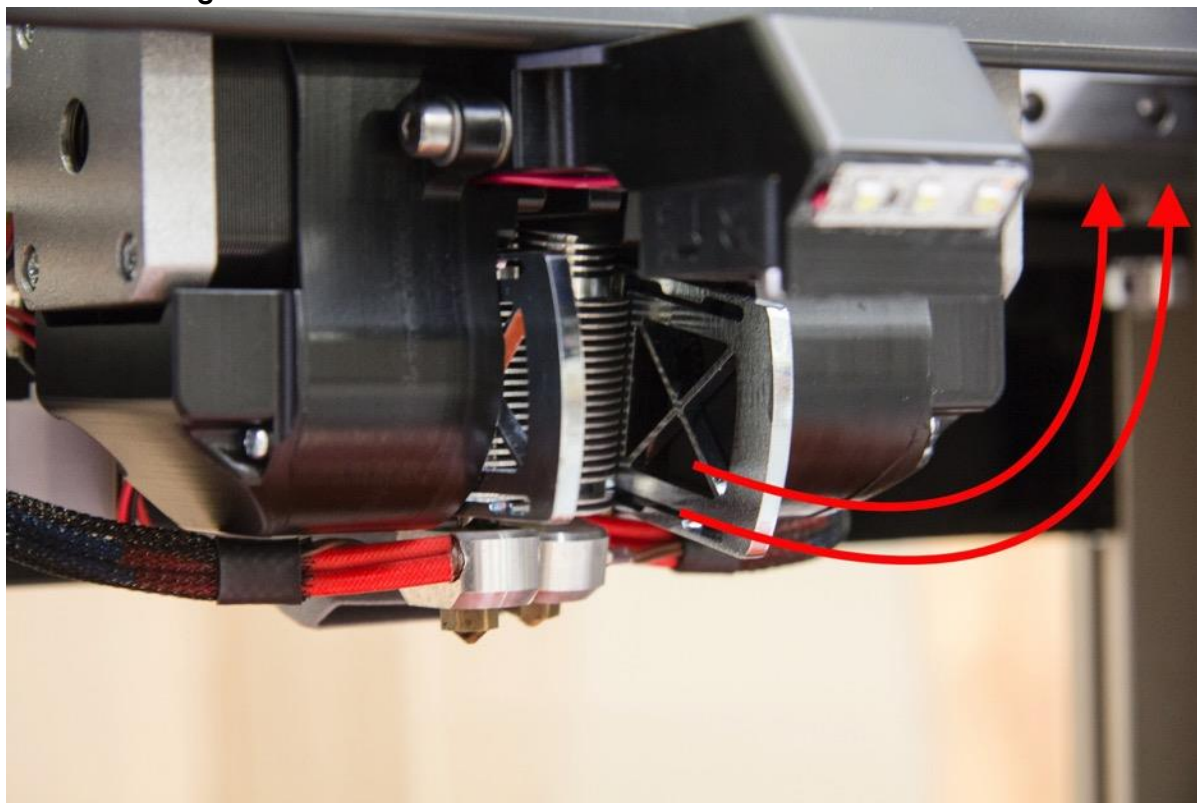
Disconnect the cable that connects the hot-end to the mainboard. Carefully pull the connector away from the socket.

Warning: do not pull by holding the cables. Only pull by holding the plastic connector.

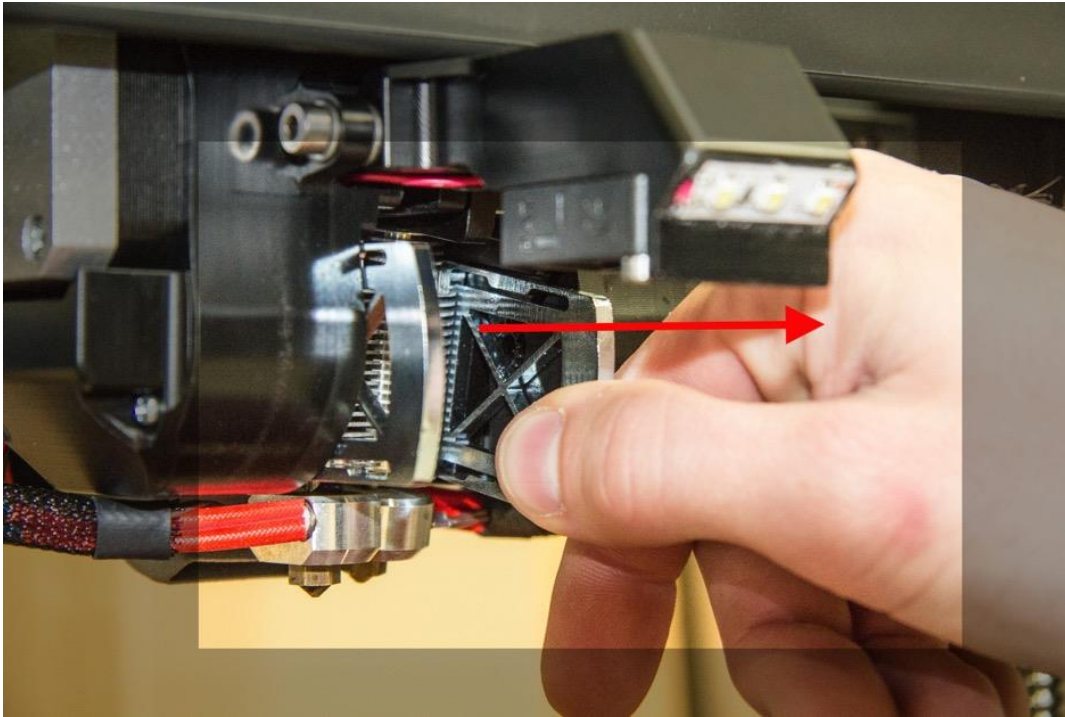




Open the door that is located in front of the hot-ends. (**Warning: only open the door when the hot-ends are less than 40 degrees Celsius.**)

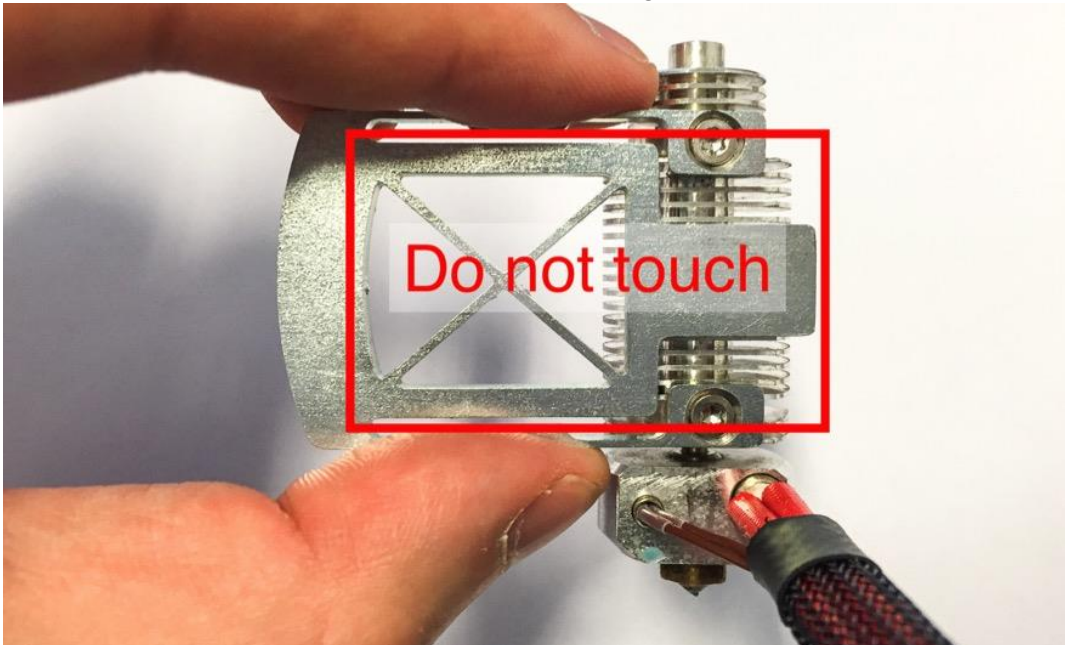


Grab the hot-end by the handle and pull the hot-end straight backwards out of the machine. The hot-ends are connected with magnets; a little force may be needed to remove the hot-ends.

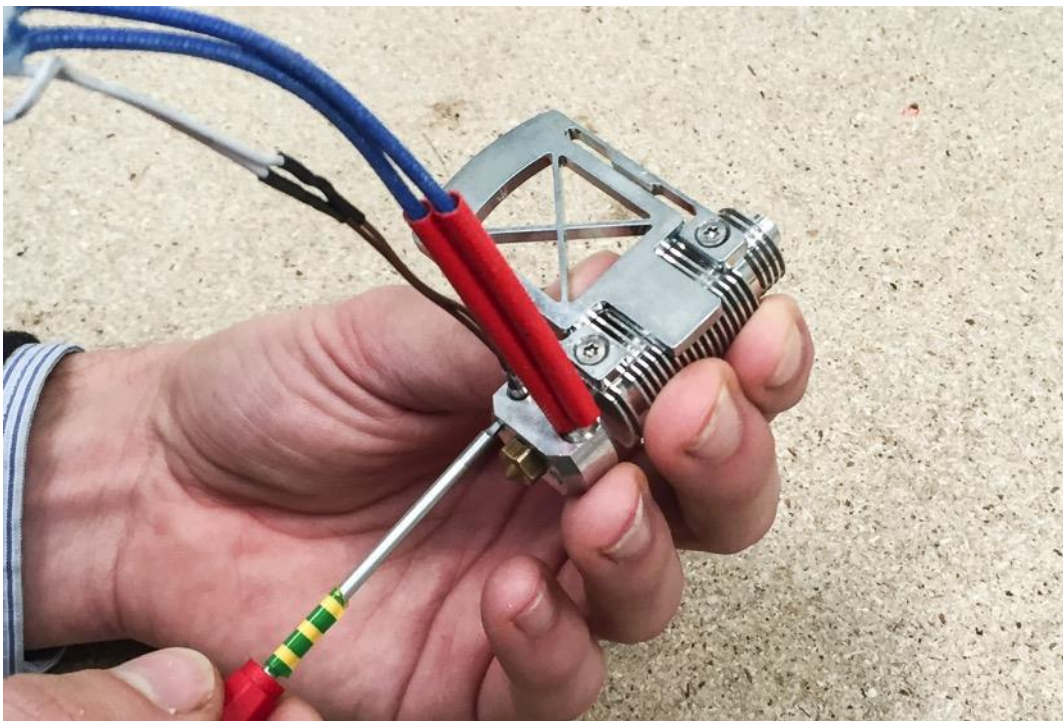


2.2 Remove the screws in the hot-end

Warning: only hold the hot-end by the barrel. Do not put pressure on the inside mechanism. This part is calibrated at the FELIXprinters factory - any changes in the calibration will influence the print results.



Hold the hot-end by the barrel and use the Allen Key 1.5 to loosen the two screws located close to the tip of the hot-end.



2.3 Remove the thermistor and heater

Remove the two metal tubes with wires on them out of the heated barrel.

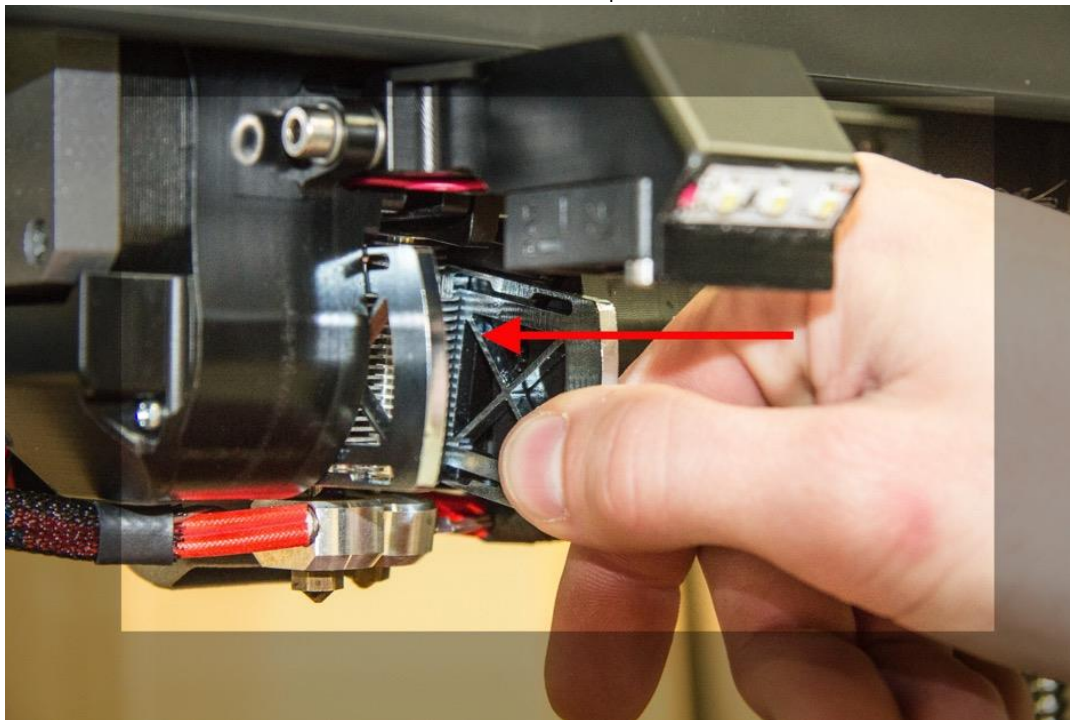
2.4 Reconnect the hot-end to its cables

Put the new thermistor and heater into their slots and carefully lock them with the small screws. Do not put too much pressure but just enough to feel the metal tubes are locked in their places.

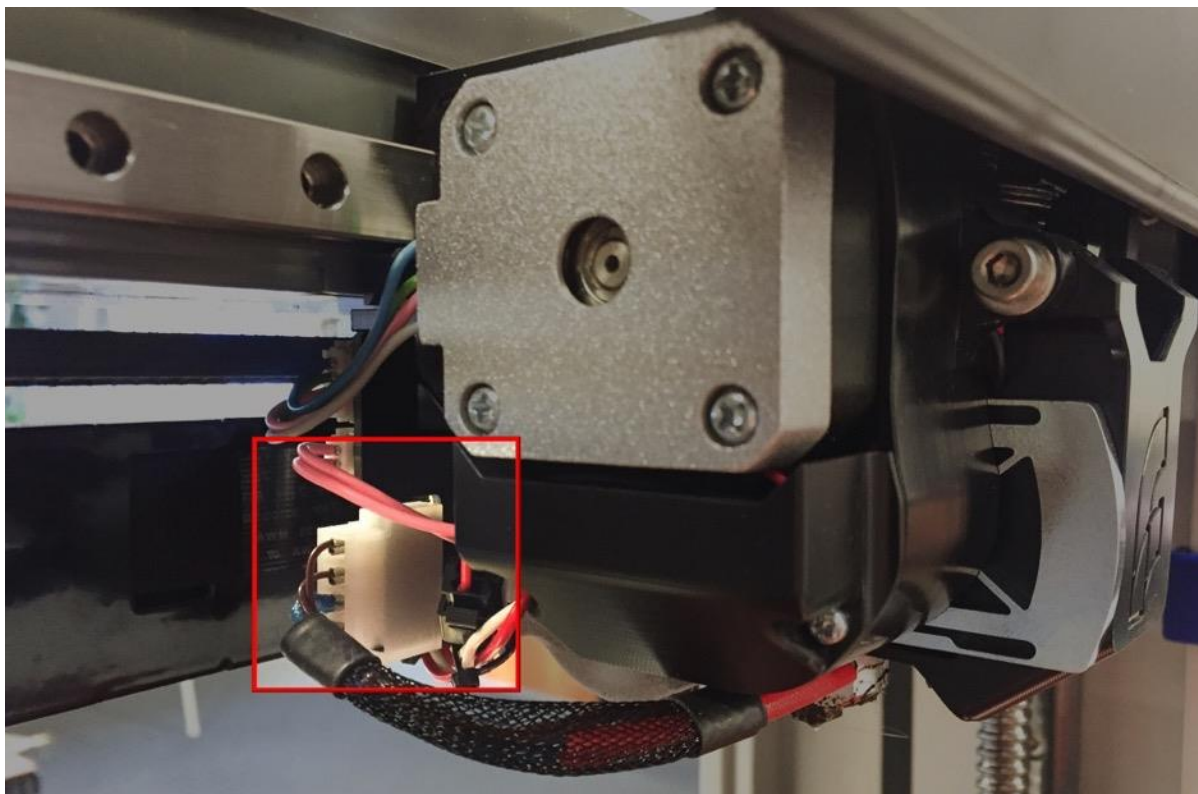


2.5 Put the hot-end back into its slot

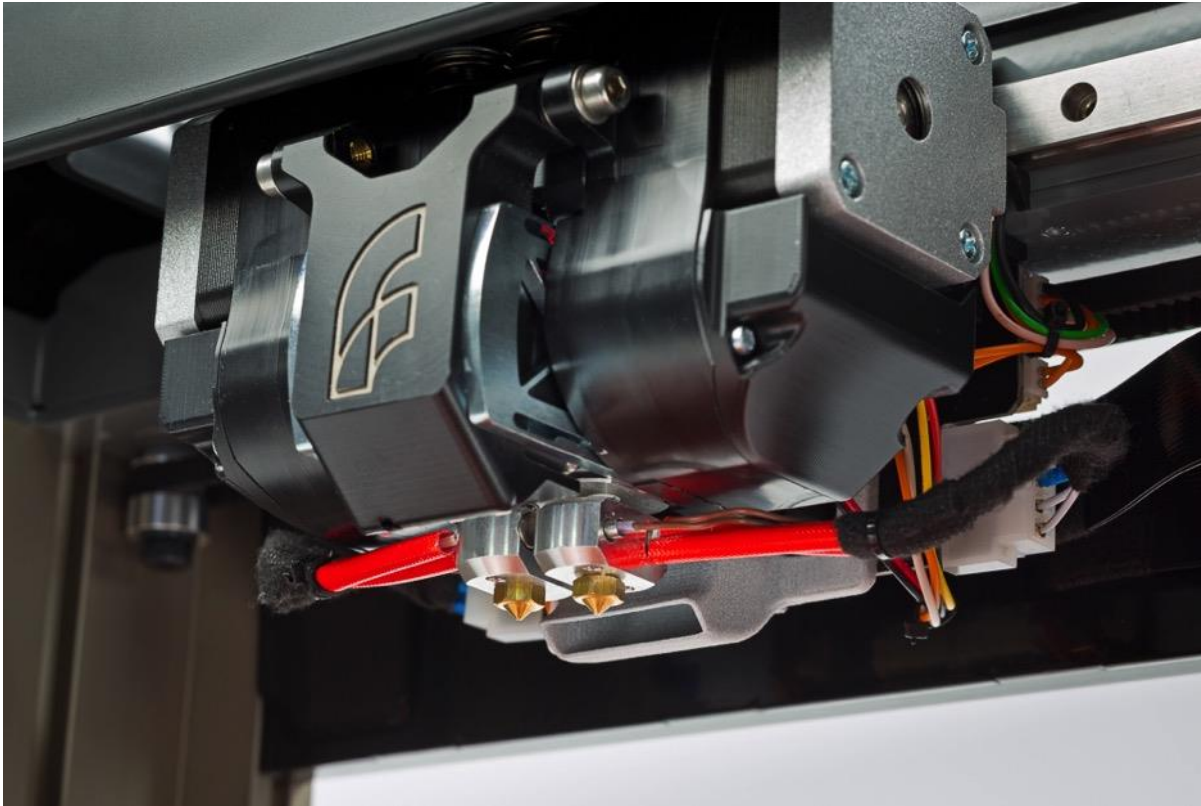
Firmly push the hot-end into its slot. Make sure it is pushed in all the way to the back. Push till you hear a 'click' sound. This means the hot-end is in the correct position.



Reconnect the cable that connects the hot-end to the mainboard.



2.6 You are now be able to use the FELIX Pro 1 again



If you are unable to continue or have any questions, you can check at the support section of our website or you can contact us directly:

Website: www.felixprinters.com/support

Email: support@felixprinters.com

Telephone: +31 (0)30 30 31 387

Address: Zeemanlaan 15, 3401MV IJsselstein, The Netherlands

Kind regards,
FELIXprinters