

How to replace a hot-end nozzle

FELIX Pro 1

11 June 2016

Revision 2



1 Introduction

This tutorial explains how to exchange a hot-end nozzle properly. A replacement can be needed, when the tip is completely clogged or when it is required to use a different nozzle size.

2 Tools

The tools you need to replace the tip of the FELIX Pro 1 nozzle:

- Allen key 1.5
- (open-end) Wrench 12
- (closed-end) Wrench 7

3 Take the hot-end out of the machine

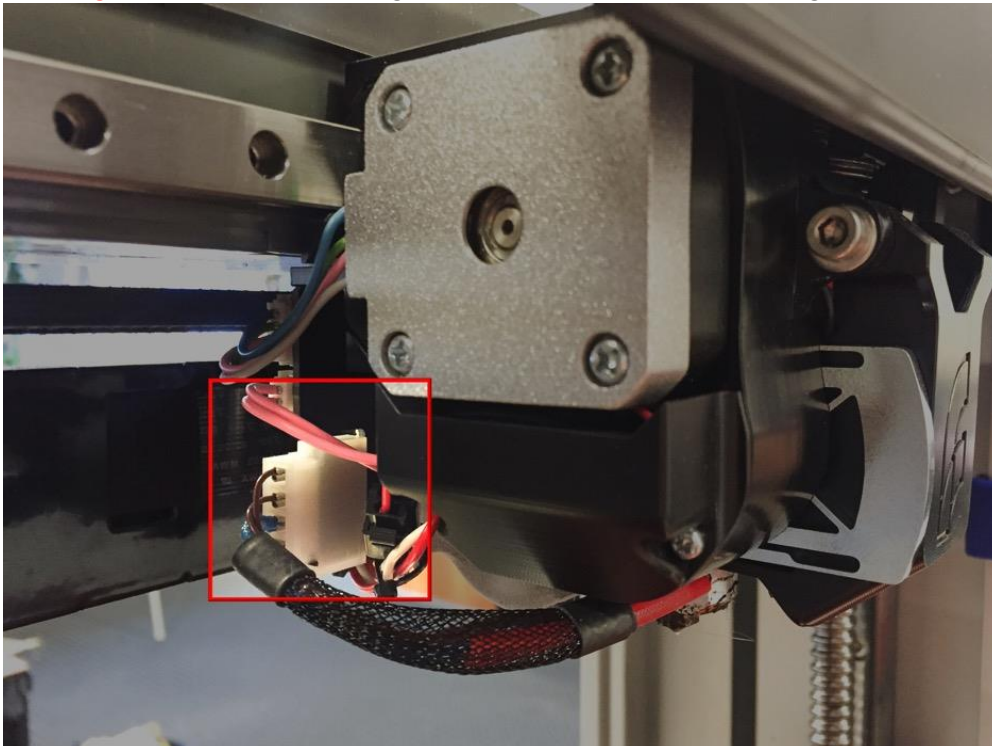
Warning: When filament is still loaded into the FELIX Pro 1, the hot-end cannot be removed

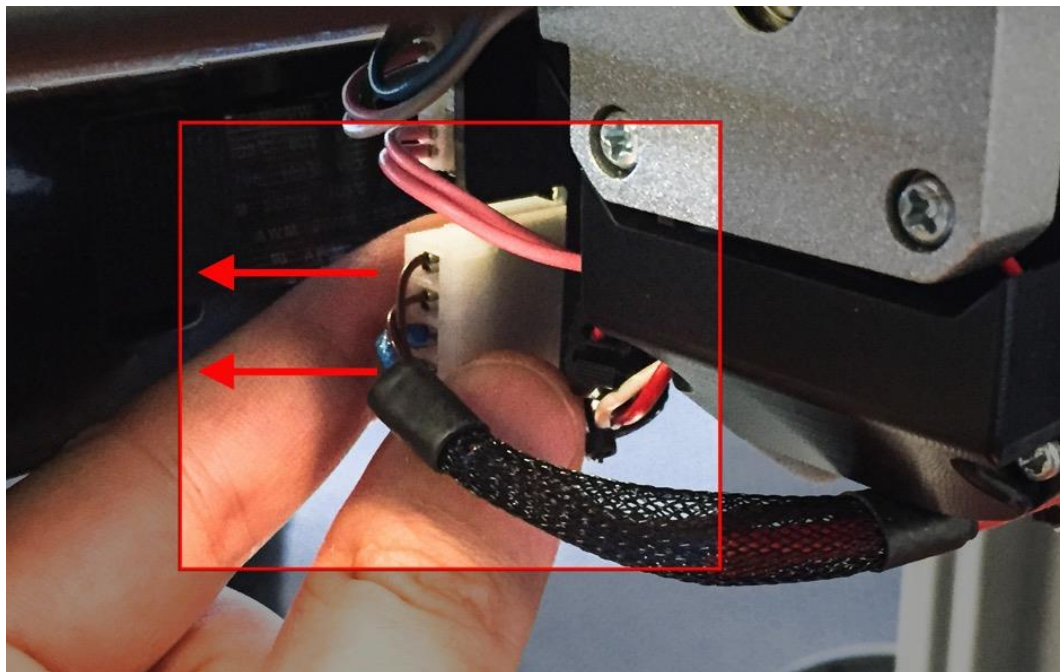
The first step is to take the hot-end out of the Pro 1. Before this is possible, the filament that is in the machine should be removed. When the filament is removed, let the hot-end fully cool down.

Turn off the FELIX Pro 1

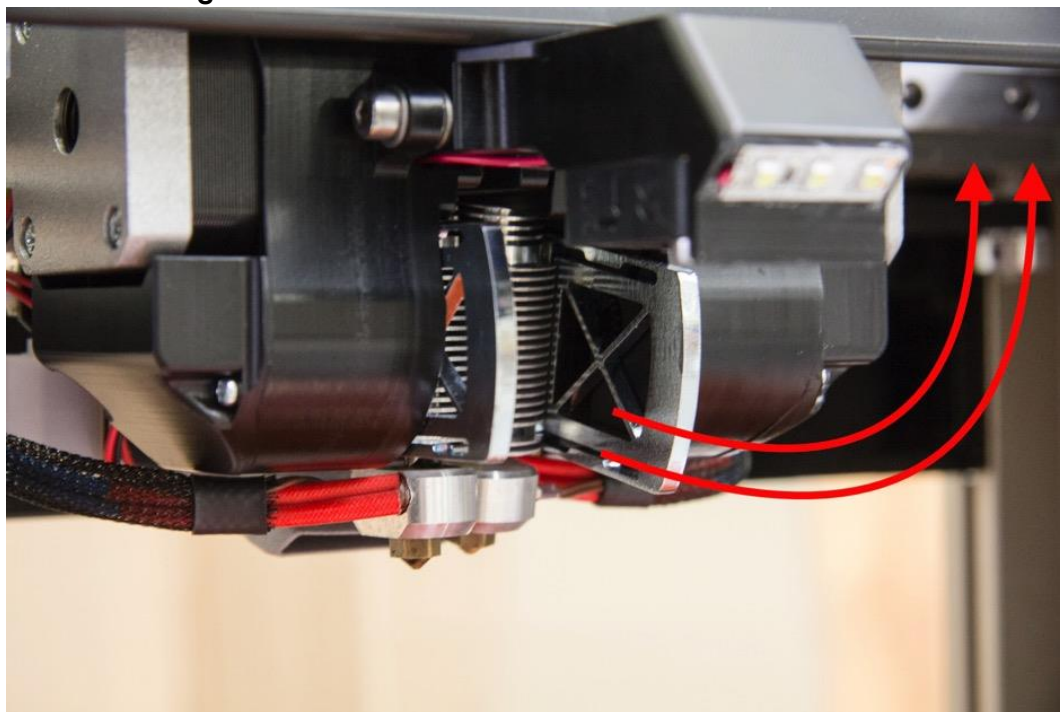
Disconnect the cable that connects the hot-end to the mainboard. Carefully pull the connector away from the socket.

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

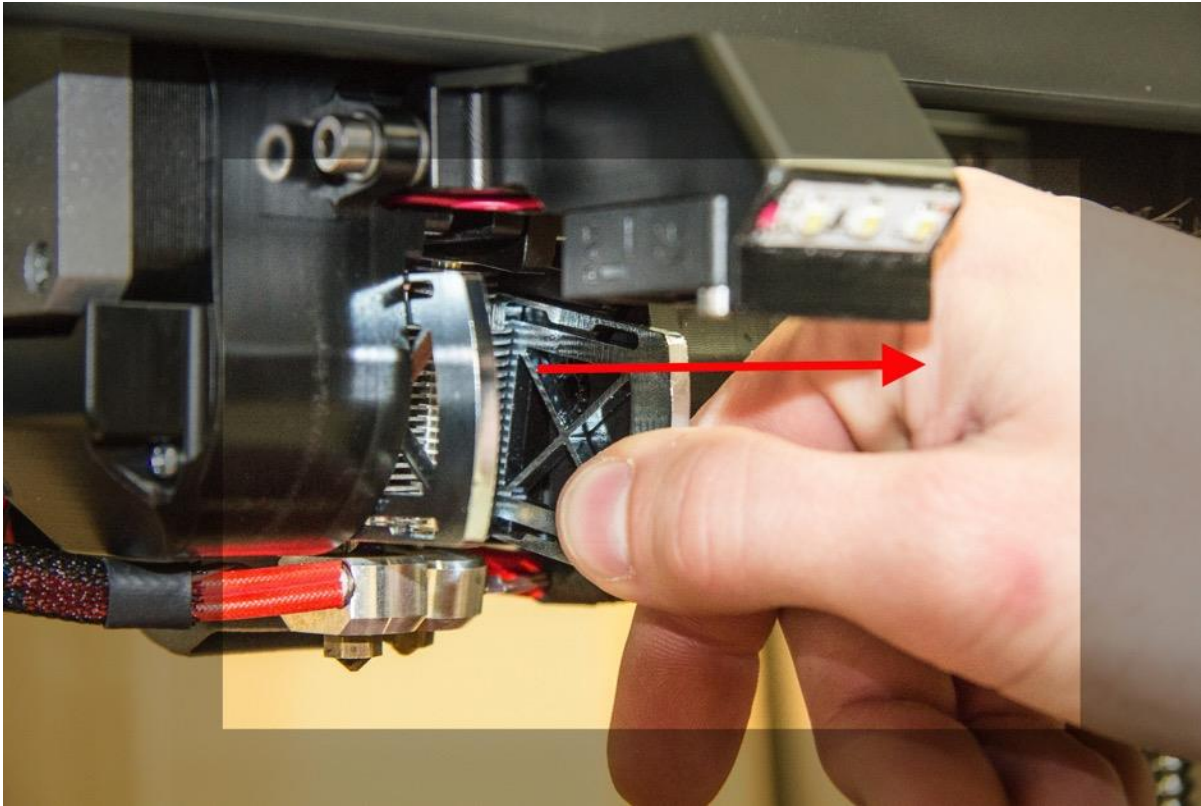




Open the door that is located in front of the hot-ends. (**Warning:** only open the door when the hot-ends are less than 40 degrees Celsius.)

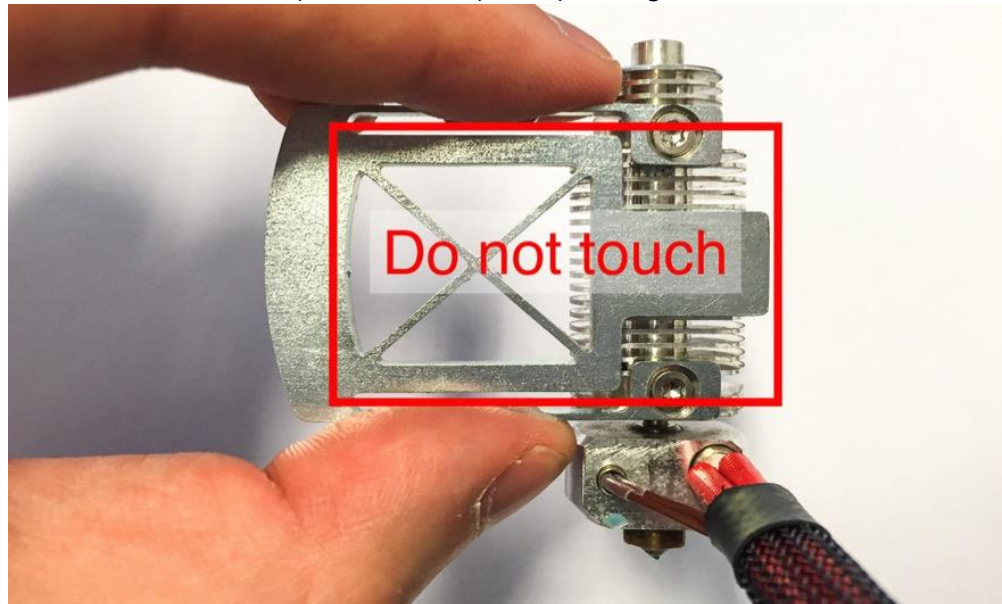


Grab the hot-end by the handle and pull the hot-end straight backwards out of the machine. The hot-ends are connected with magnets; a little force may be needed to remove the hot-ends.

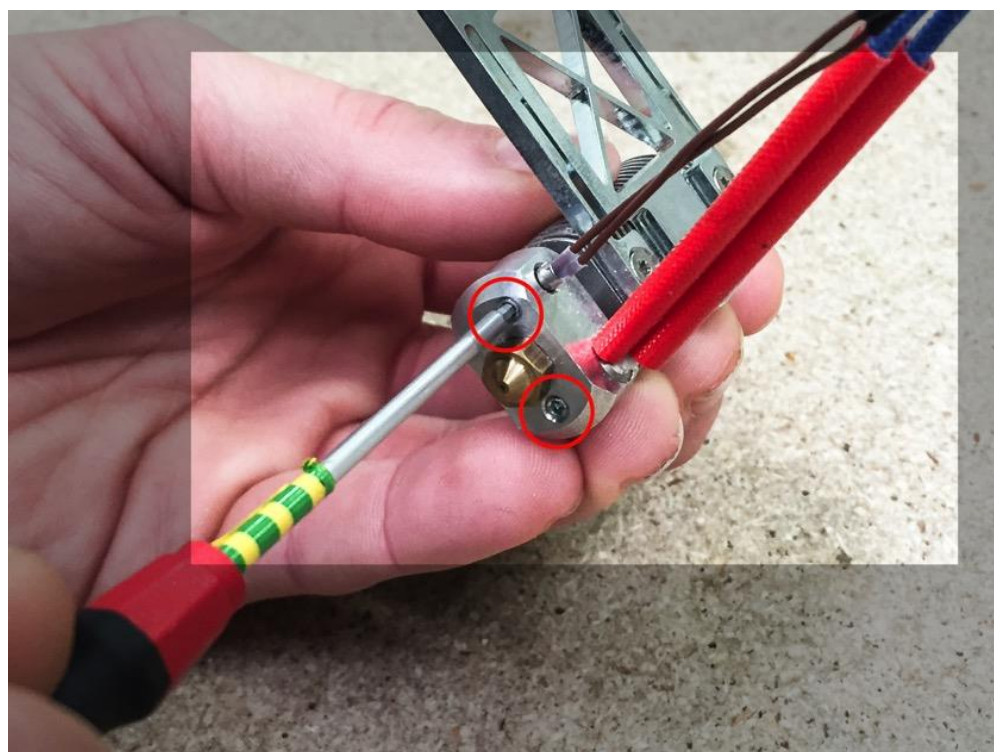


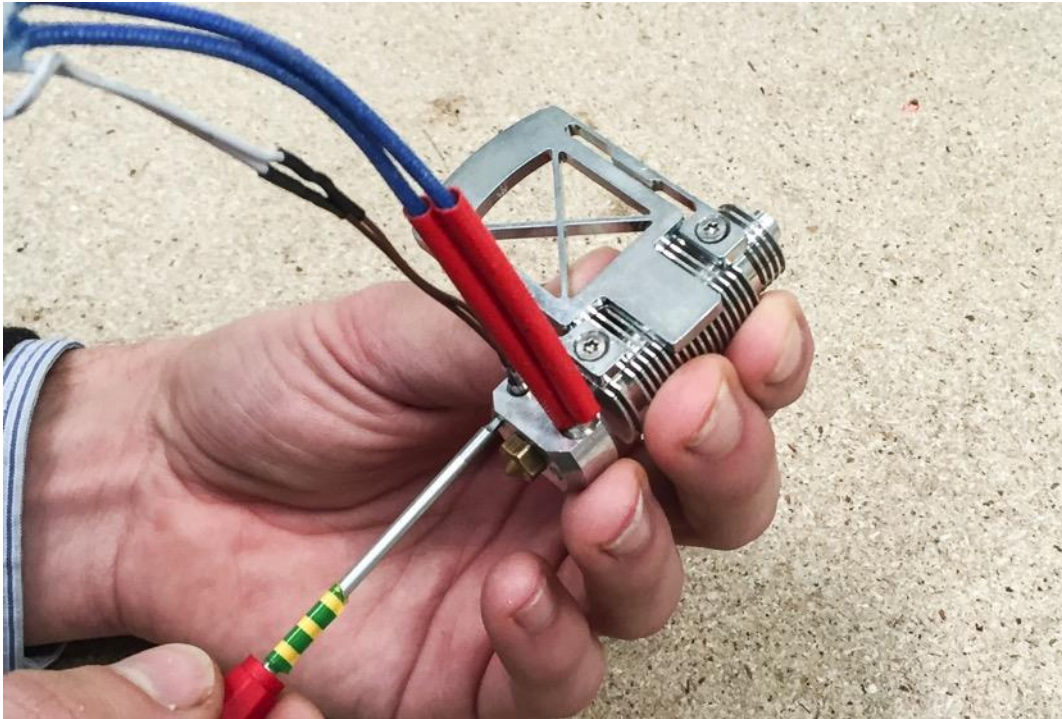
4 Remove the screws in the hot-end

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 remove the two screws located close to the tip of the hot-end.





5 Remove the tip of the hot-end

Place the open Wrench 12 around the body of the hot-end to be able to hold it firmly. Use a closed Wrench 7 to remove the tip of the hot-end.



6 Place the new tip

Now that the old tip is removed, place the new tip and lock it firmly into its place.



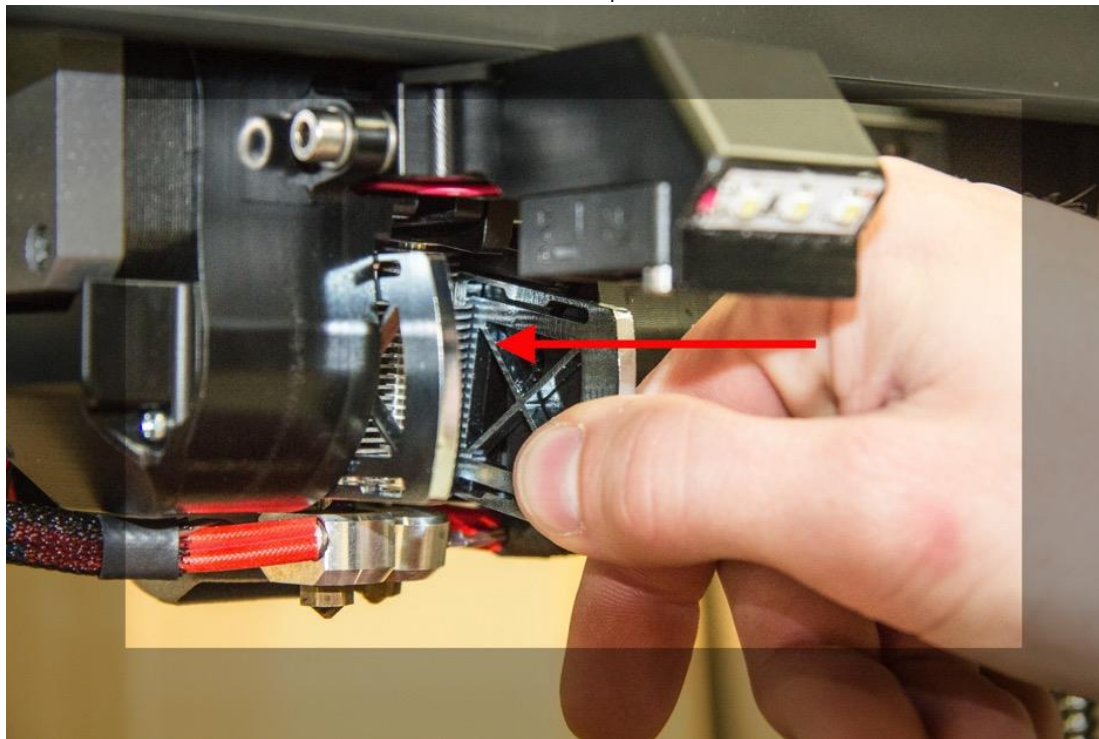
7 Reconnect the hot-end to its cables

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

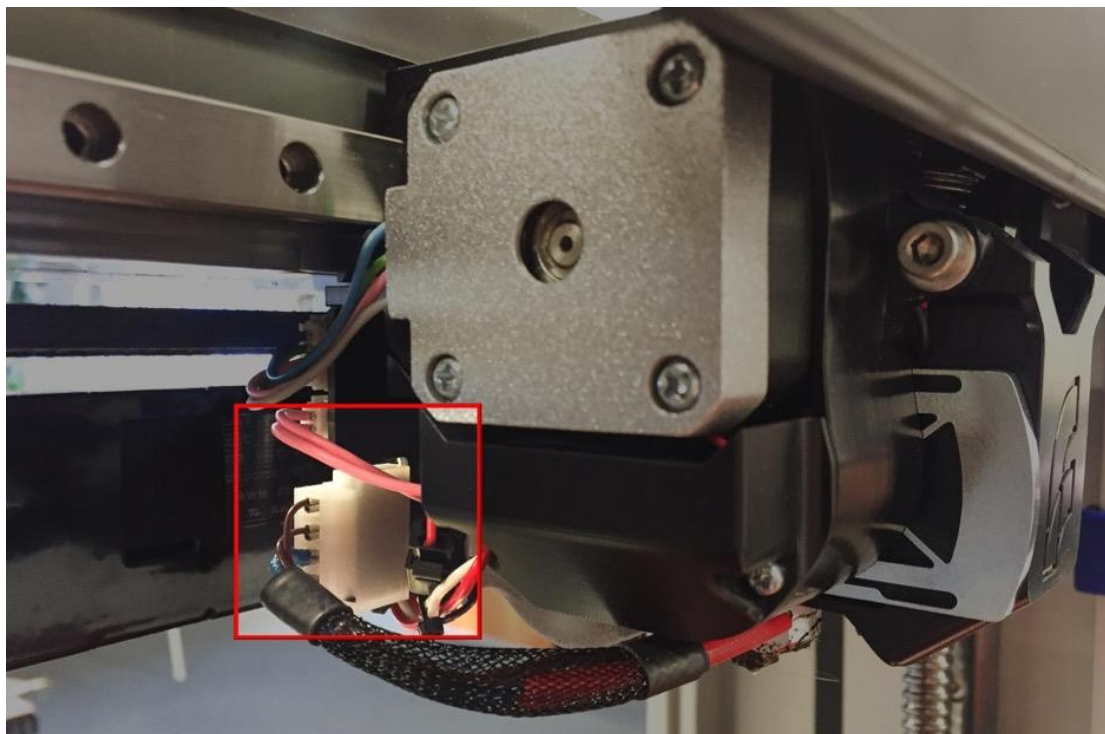


8 Put the hot-end back into its slot

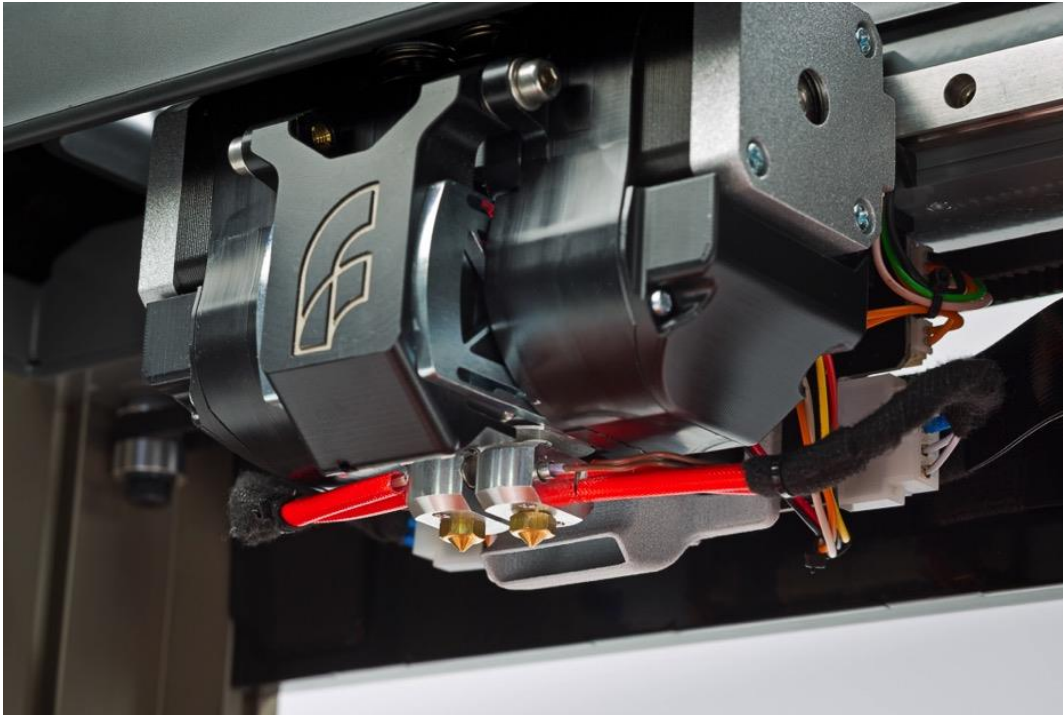
Firmly push the hot-end into its slot. Make sure it is pushed in all the way to the back. Push till you hear a 'click' sound. This means the hot-end is in the correct position.



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



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:

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Kind regards,

FELIXprinters

