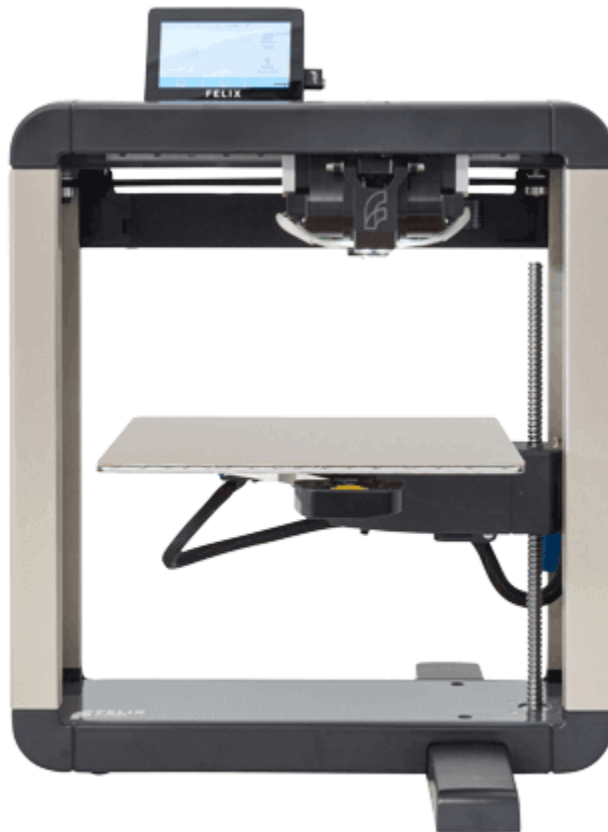


How to - Clean filament from extruder assembly

FELIX Pro series

24 January 2018

Revision 1



1 Introduction

This manual shows how to clean left-over pieces of filament inside the extruder assembly which cannot be removed with just pushing filament through.

The following things are explained.

- How to open up extruder assembly.
- How to open up filament detection assembly.

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

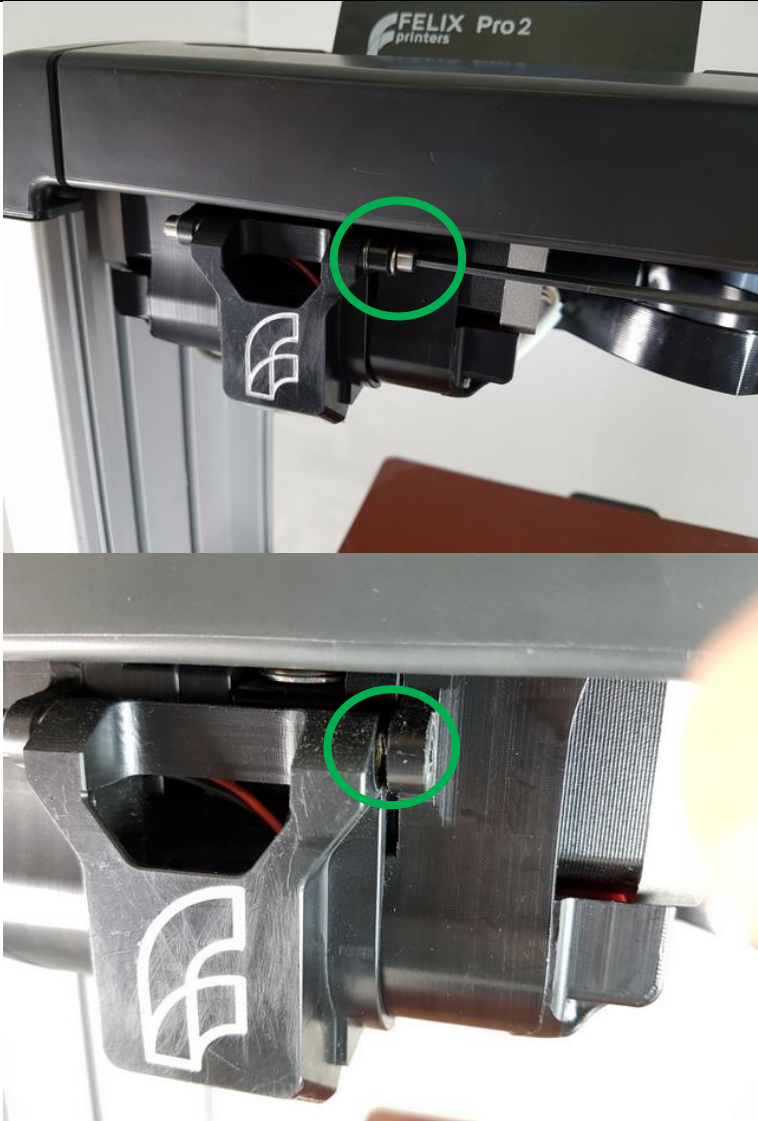
Telephone: +31 (0)30 30 31 387

Address: Zeemanlaan 15, 3401MV IJsselstein, The Netherlands

Kind regards,

FELIXprinters

2 Isolate extruder assembly.

	Loosen indicated bolt. With allen key 3mm
	Loosen hot-end connector. Remove it by sliding off connector, not by pulling cables.

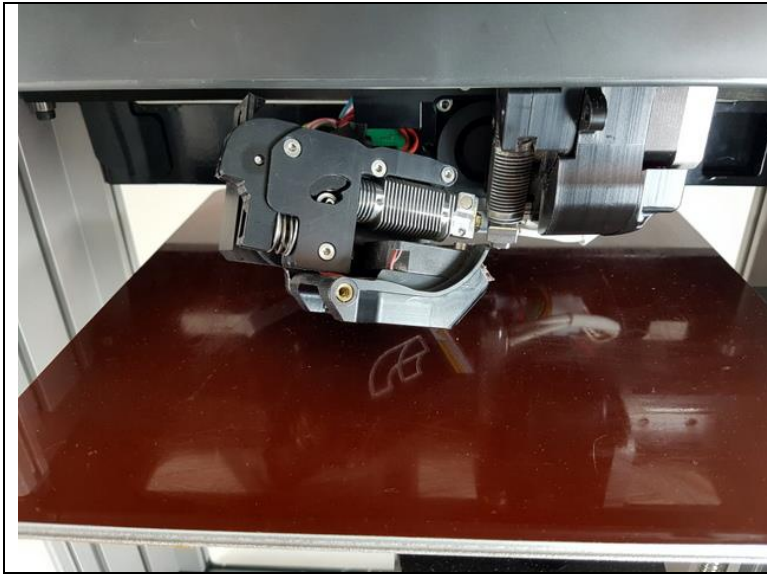
		Loosen bolt on top of extruder with 2.5mm allen key
		Move up table a few mm from the print head and fix it by pushing in a allen key in the set-screw of the z-axis set-screw. Do this with a 1.5mm allen key.
		Slide off the extruder assembly.

Isolate extruder assembly.

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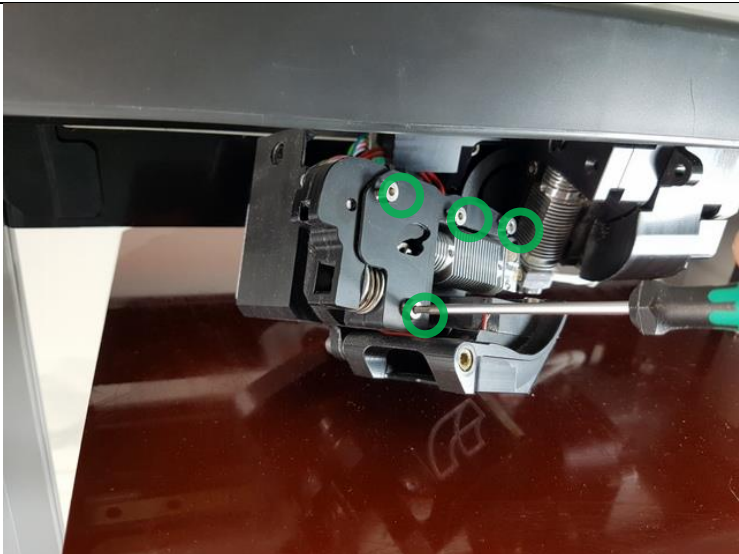
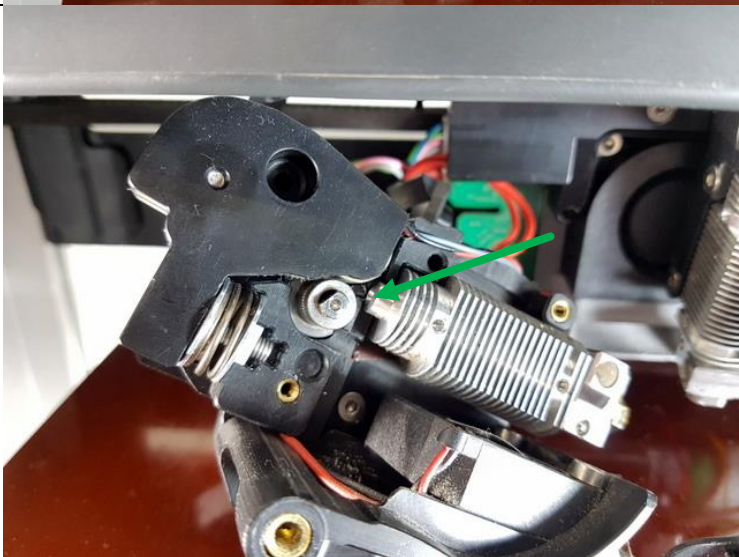
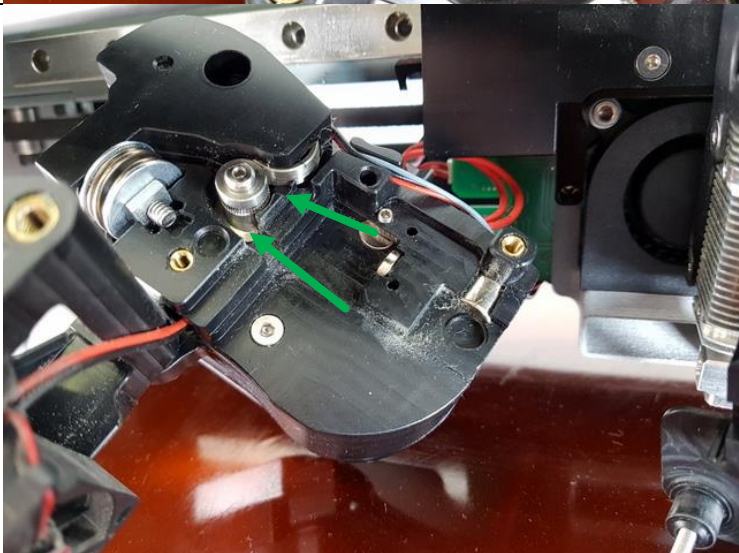
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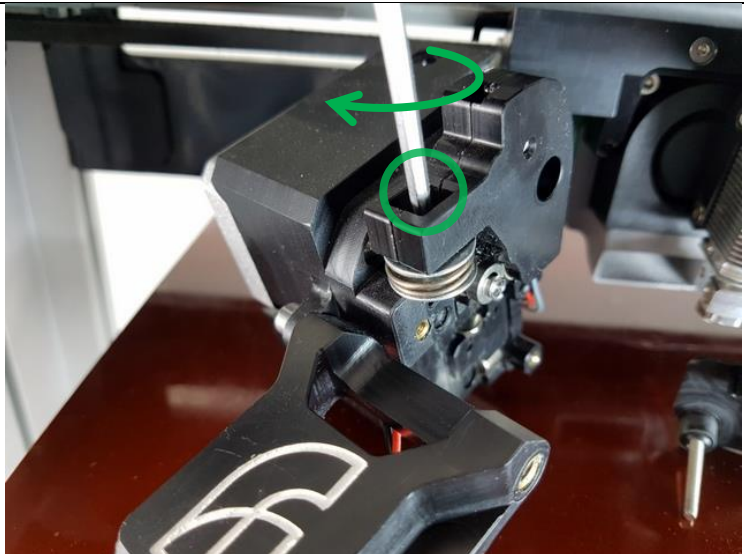
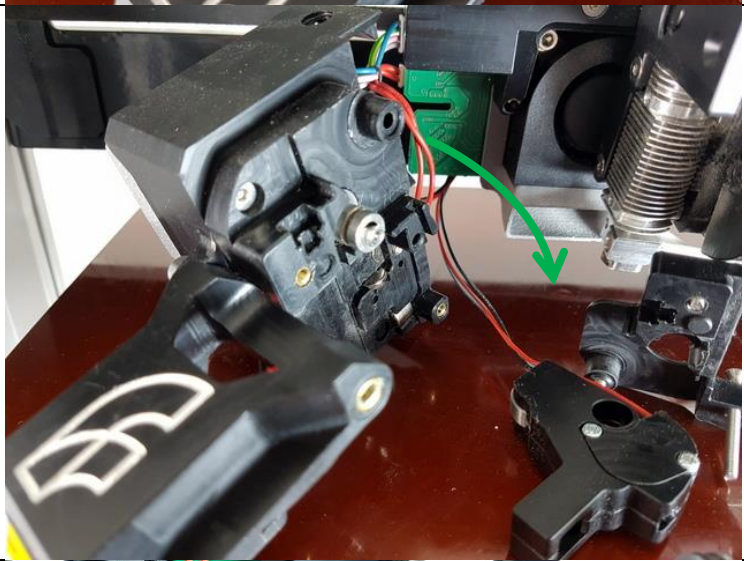
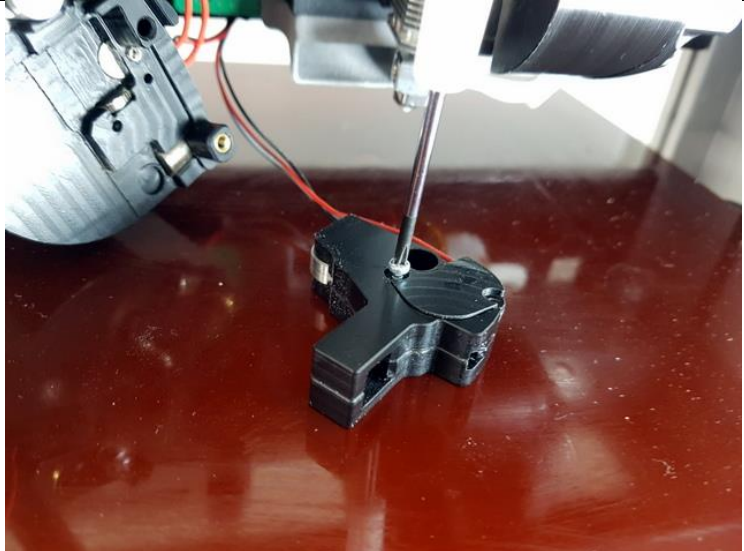


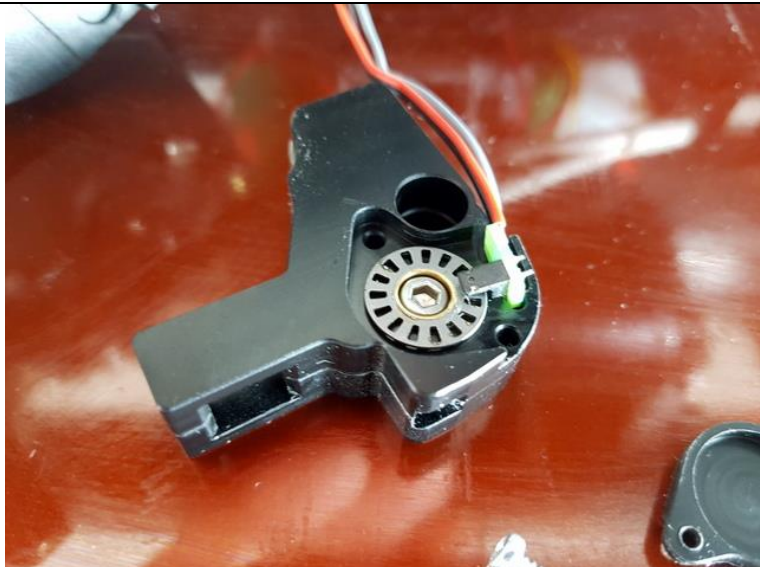
Let it rest on the table carefully.

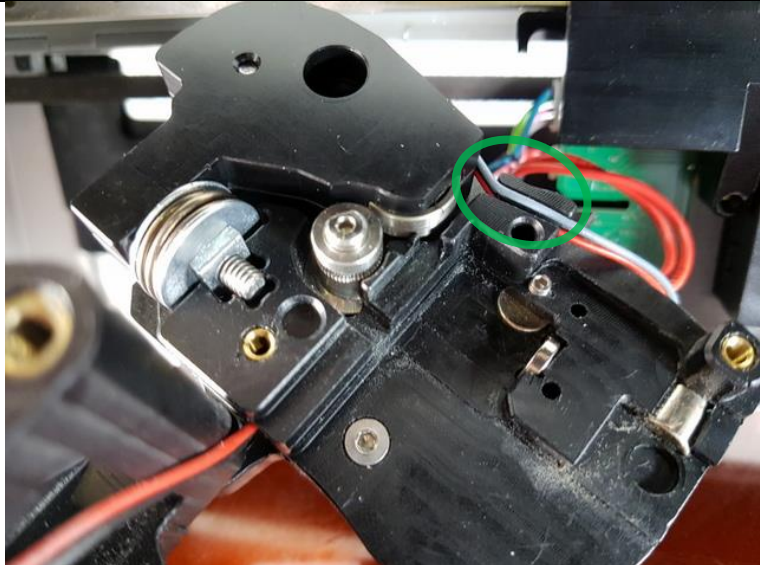
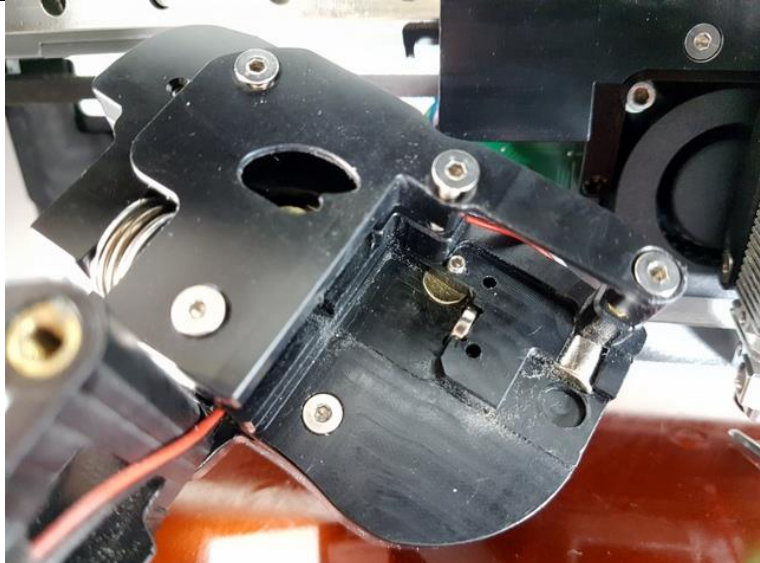
3 Open extruder

	Loosen the indicated bolts with a 2mm allen key to remove the sidecap
	Check if there is filament between the hot-end and the extruder drivewheel. Check if the entry is free, by inserting filament from the top of the extruder arm. It should be able to enter the hot-end.
	

4 Clean out filament arm

	Compress extruder spring, for easier removal of extruder arm.
	Slide off extruder arm
	Remove sidecap of extruder arm. Loosen the two Philips screws

	Remove filament detection opto-sensor
	Remove encoder disc, with allen key 2.5
	Check if canal is free of filament.

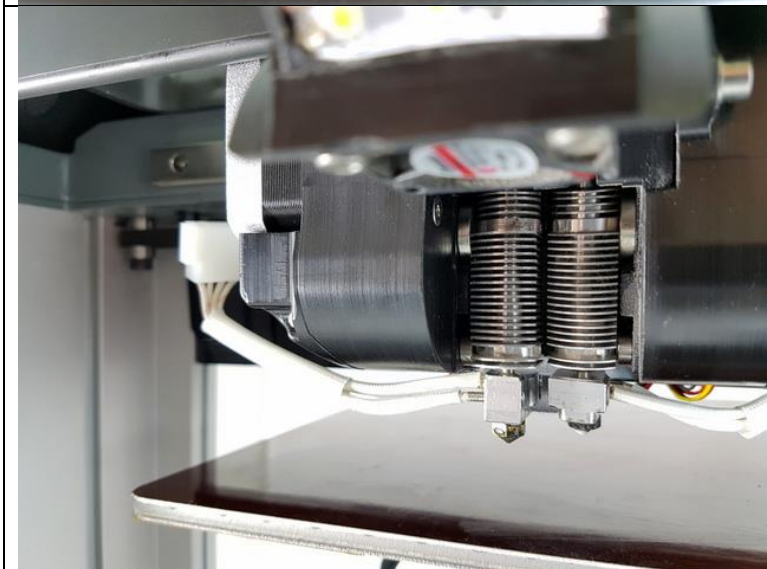
	Join the parts back together again. Notice the parts inside the extruder arm.
	Place back the extruder arm with spring. And decompress the spring a little bit. Make sure the wires of the filament detection are inside the indicated slot.
	Fix the side cap again. With allen key 2 mm.



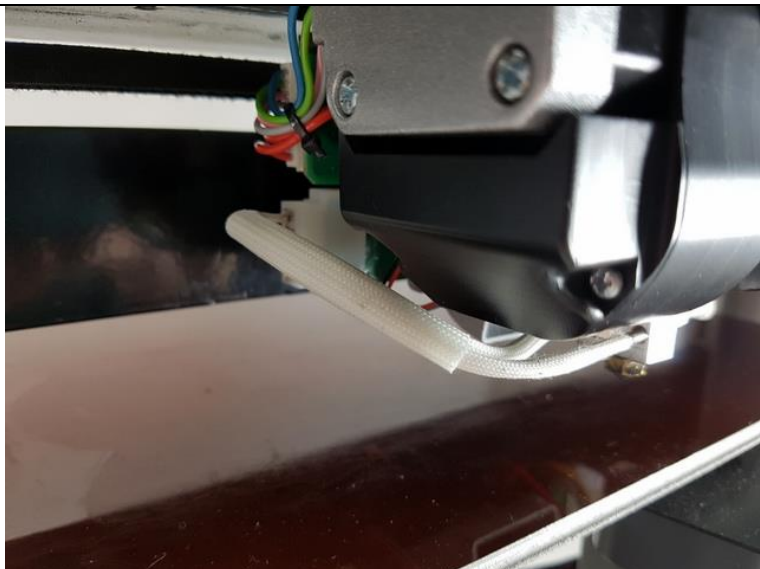
Slide on the extruder assembly again and place back M4 bolt. Don't forget the washers.



Put back the m4x50 button screw.



Place back hot-end

	Place back connector
	Close the lid

You are now finished. Please do all calibrations again.