

Manual

FELIX 3.0 to 3.1 upgrade kit



This manual contains the following steps

- Installation of FELIX 3.1 Extruder unit parts
- Installation of Heated bed parts
- Installation of Z-axes calibration part

Disassembly and assembly of the Extruder Unit for both Single and Dual

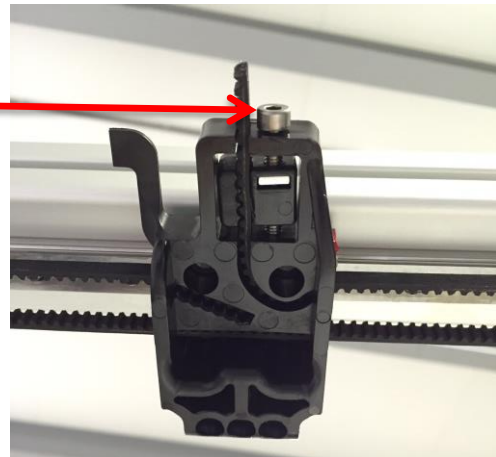
Important: follow the steps in exactly this order to disassemble and assemble the extruder unit without damaging your FELIX.

In the first steps the extruder unit will be disassembled to replace the frame parts and the extruder wheels. The next step is to disassemble the part that is carrying the extruder.

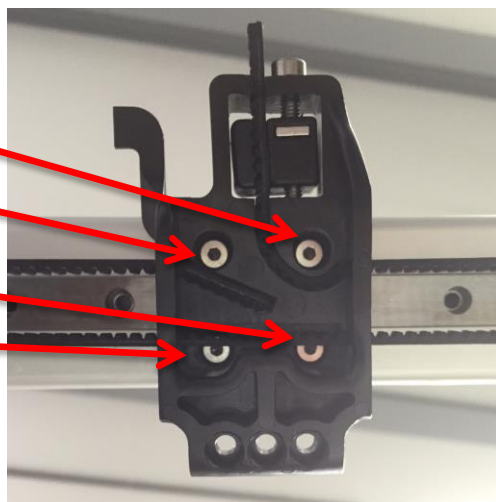
- [Click here](http://www.felixprinters.com/downloads/instruction%20manuals/old/20140922%20-%20Assembly_manual_felix_3.0_eng_V2.pdf) to download the FELIX 3.0 manual and go to Module 4: extruder
- Follow step 54A to 44 from the FELIX 3.0 manual (**in reverse order**) to disassemble the extruder unit.

The next step is to disassemble the part that connects the extruder unit to the X-axes. Disassemble the part by following these steps:

1: Loosen the belt by turning the bolt with an Allen / Hex key.



Disconnect the part by removing the 4 bolts with an Allen / Hex key.



Connect the connector part

The next step is to install the replacement part. Connect it to the frame with the same 4 bolts. The next step is to securely connect the belt again. The belt can be tensioned by gently pulling one end of the belt and lock it by tightening the bolt that is shown in step 1.

When you are finished with the previous steps, prepare these items for assembly:

1 x Frame parts set
2 x Extruder wheels
1 x Bracket (for dual only)

- [Click here](http://www.felixprinters.com/downloads/instruction%20manuals/20150713%20-%20Assembly_Manual_FELIX_3.1.pdf) to download the FELIX 3.1 manual and go to page 16
http://www.felixprinters.com/downloads/instruction%20manuals/20150713%20-%20Assembly_Manual_FELIX_3.1.pdf

- **For Single**
Follow step 44 to step 54 (blue dots till page 17) to re-assemble the extruder unit.
- **For Dual**
Follow step 44 to step 54 (red dots till page 21) to re-assemble the extruder unit.

Disassembly and assembly for the Heated Bed for both Single and Dual

Needed for this step: 3 x spring

(For users who have installed a mini upgrade kit or bought their FELIX 3.0 in 2015, please check if the springs are not already installed)

- [Click here](#) to download the FELIX 3.0 manual and go to Module 5: Y-axis and print bed

http://www.felixprinters.com/downloads/instruction%20manuals/old/20140922%20-%20Assembly_manual_felix_3.0_eng_V2.pdf

- Lay the FELIX on it's back so you can easily access the bottom of the print bed.
- While the print bed is mounted onto the FELIX, remove the bolts from the three points as shown in step 70. Removing of the bolts becomes very easy when the print bed is pushed down towards the arm that's holding the print bed. (Photo 1)

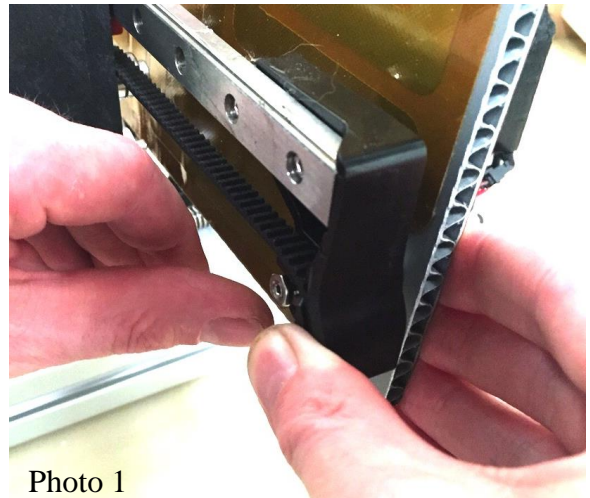


Photo 1

- Carefully lift one side of the print bed (photo 2) so you can slide a spring over the bolt, between the print bed and the frame. (Photo 3)



Photo 2

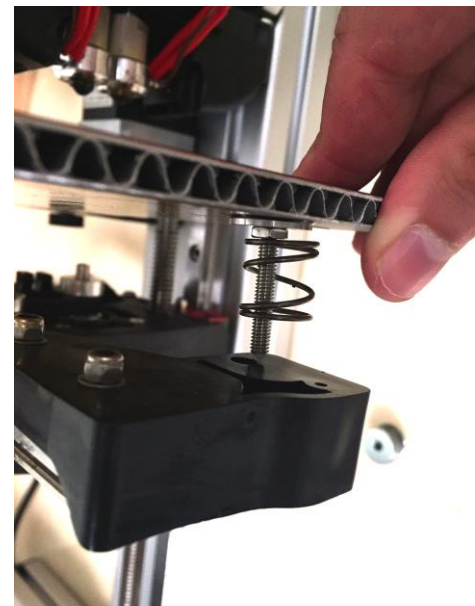


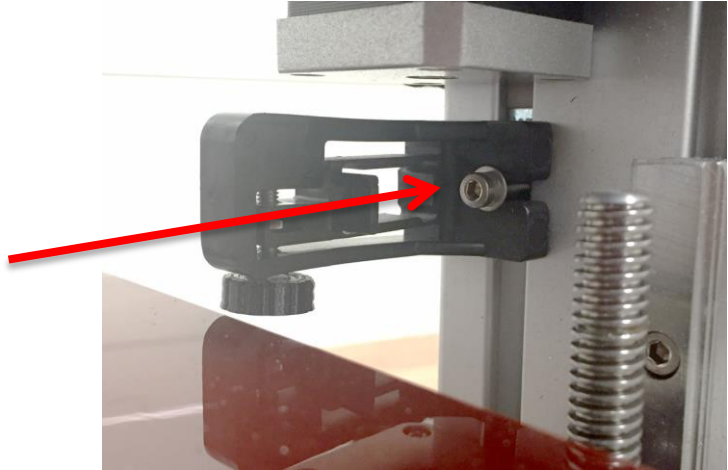
Photo 3

- When all springs are installed, put the plates and bolts back onto the printer again. (Step 70 in the manual)

Disassembly and assembly of the Z-axis calibration part

Needed: 1 x Z-axis calibration part

- Remove the installed part from your FELIX by unscrewing the bolt. Put the new part in the exact same location and connect it with the bolt.



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