

Firmware update guide

FELIX Pro 2

November
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Revision 2



1 Introduction

Dear Customer,

This is a guide to install the latest firmware on your FELIX pro 2. Please read it carefully to ensure you perform the update correctly.

These are the steps we will take

1. Update the firmware
2. Run the `eeeprom_clean.gcode`
3. Re-calibrate the printer.

The above steps will take about 10 minutes.

2 Get the latest firmware on our website.

<http://www.felixprinters.com/downloads>

Goto Pro series -> Pro 2 -> Firmware -> download the firmware .zip-file and the `reset_EEPROM_printer.gcode` file

Extract the files from the zip file to a convenient location on your computer.

Note: Double-clicking the zip file in Windows Explorer will not actually extract all the files, it will just show them. When you then click one, it will only extract that single file. This will not work.

Select all files and copy them to a new location. Then continue with the next step.

3 Run the update

Run the `autoupload.bat` file and press 'Y' to continue if the detected COM-port is correct.

```
Com Port for Arduino Due device is detected as COM54.
Do you want to upload Felix Pro 1 firmware to this port? [Y,N]?Y
Putting printer in programming mode...
Programming firmware into printer...
Erase flash
Write 198120 bytes to flash
[=====] 100% <774/774 pages>
Verify 198120 bytes of flash
[=====] 100% <774/774 pages>
Verify successful
Set boot flash true
Device       : ATSAM3X8
Chip ID      : 285e0a60
Version      : v1.1 Dec 15 2010 19:25:04
Address      : 524288
Pages        : 2048
Page Size    : 256 bytes
Total Size   : 512KB
Planes       : 2
Lock Regions : 32
Locked       : none
Security     : false
Boot Flash   : true
CPU reset.
Programming finished!
Exiting batch file...
Press any key to continue . . .
```

4 Clear internal memory of printer

Put the `reset_EEPROM_printer.gcode` on an SD card and run it. Or you can run it via the USB cable by host-program of your choice.

Normally the internal memory gets reset after flashing, but in some cases not all parameters are wiped. So this extra step ensures the printers internal memory is completely reset to the intended default values.

5 Re-calibrate printer

This firmware has all calibration routines included in the printer, so no more need to calibrate the printer via sd files.

In the main menu run the following routines and follow instructions.

1. Goto control -> Level Builtplate
2. control -> calibrate extruders -> calibrate z
3. Control -> calibrate extruders -> calibrate xy

Congratulations, the printer now runs the latest firmware and should perform optimally now.