How to add auto level sensor to FLSUN QQ

Step by step instructions to install the new leveling sensor and metal effector on the original FLSUN QQ

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INTRODUCTION

If you own an original FLSUN QQ printer, upgrading the leveling sensor to a touch sensor will make leveling much easier. Here are the steps to upgrade to the new sensor.

TOOLS:

- 4mm Hex Key (1)

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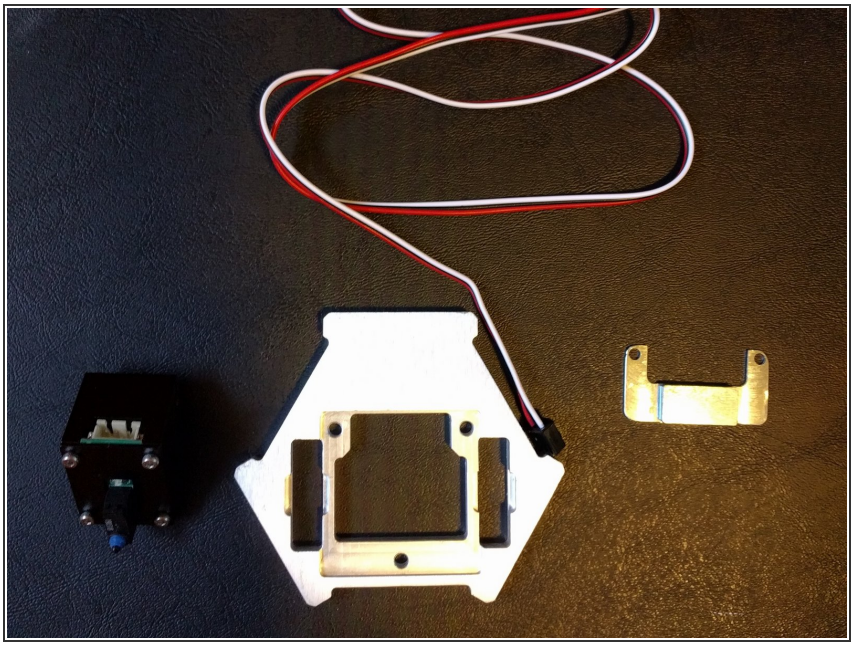
Step 1 — Tools

- 2 hex wrenches that came with your printer

Step 2 — Parts



- sensor
- effector plate
- connector cable
- magnetic mount
- these parts can be purchased from AliExpress https://www.aliexpress.com/item/33016927...

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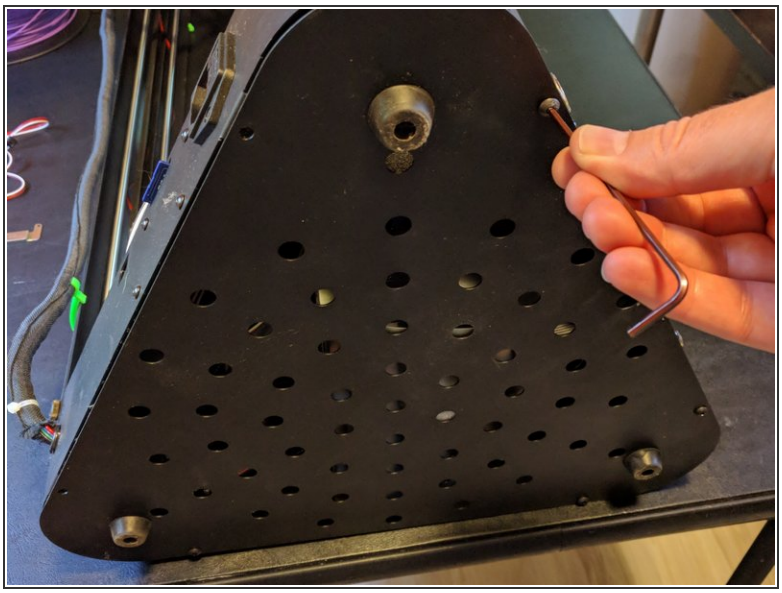
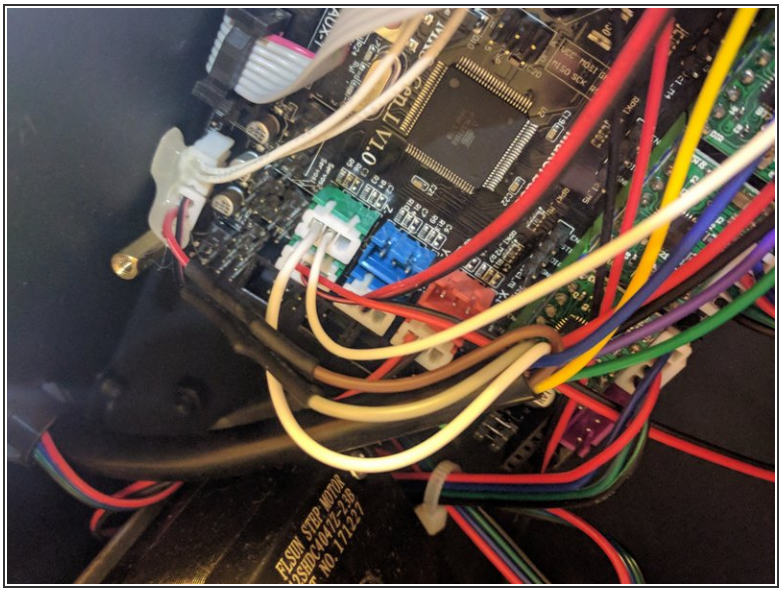
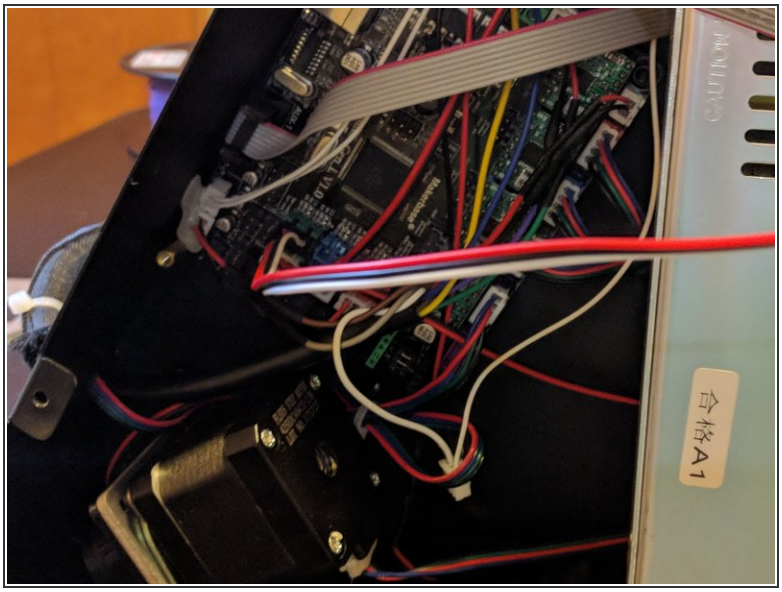
Step 3 — Open the Printer



- remove 6 screws in the base of the printer
- open the bottom cover

Step 4 — Swap the Sensor





- Remove the connector with 2 white wires from the second green slot
- Plug the connector for the new sensor into the second green slot.

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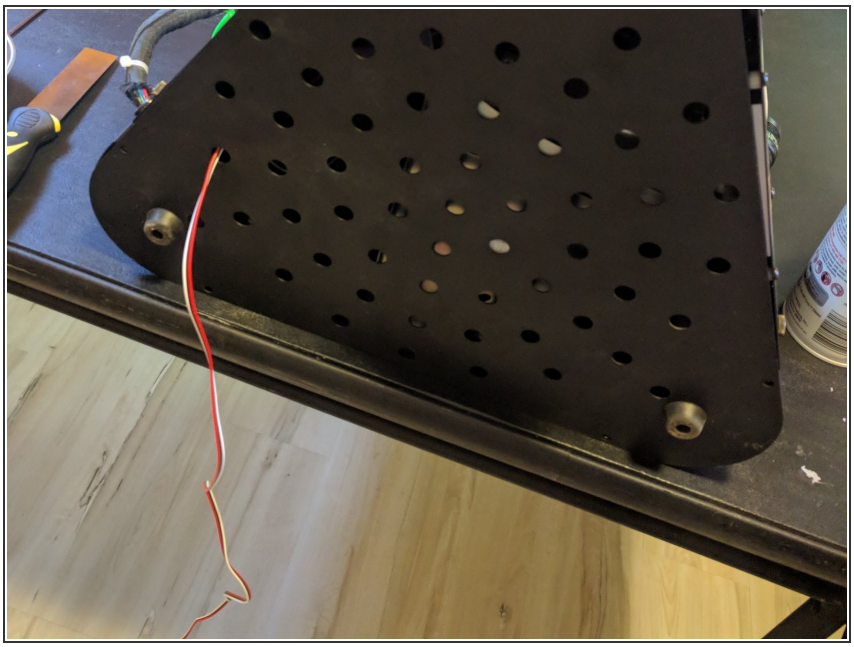
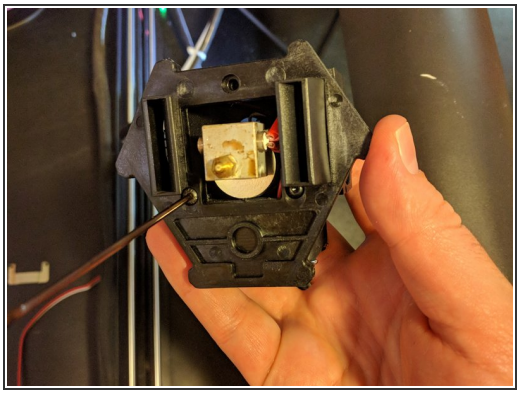
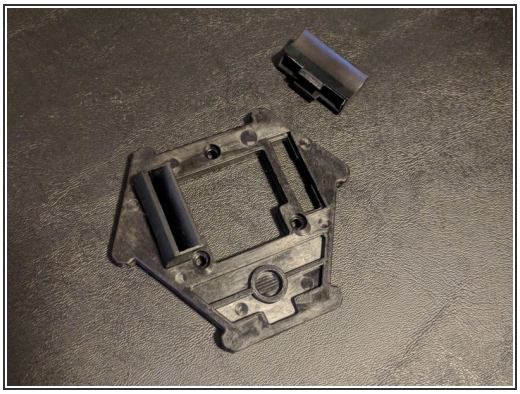
Step 5 — Run the Cable



- feed the cable through a convenient hole in the bottom plate
- re-attach the plate to the printer with the 6 screws removed earlier

Step 6 — Remove Old Effector





- pop off the fan ducts
- Remove 3 smaller screws from the bottom of the effector
- Remove 6 long screws from the connection points from the rods to the effector. (be careful to keep the tiny washers)

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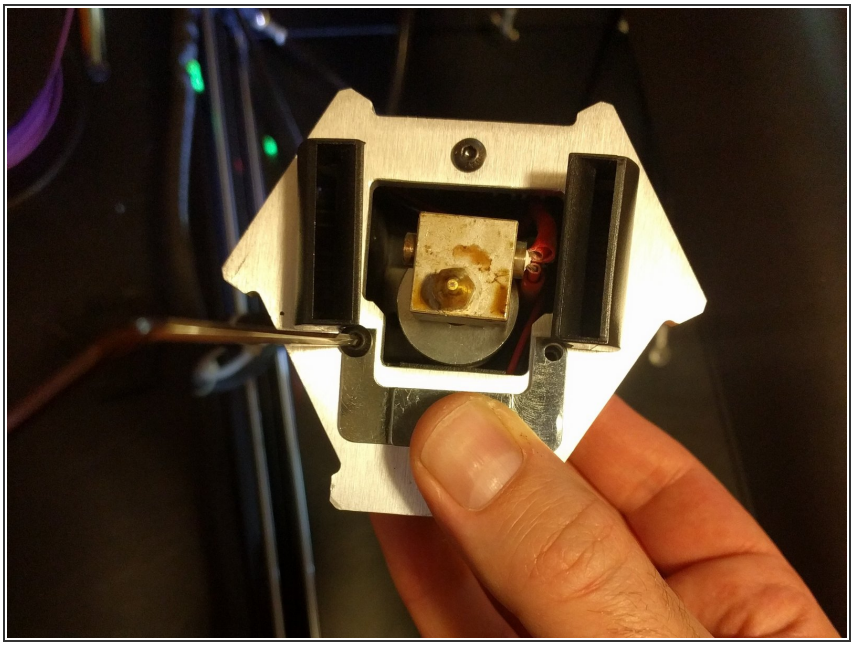
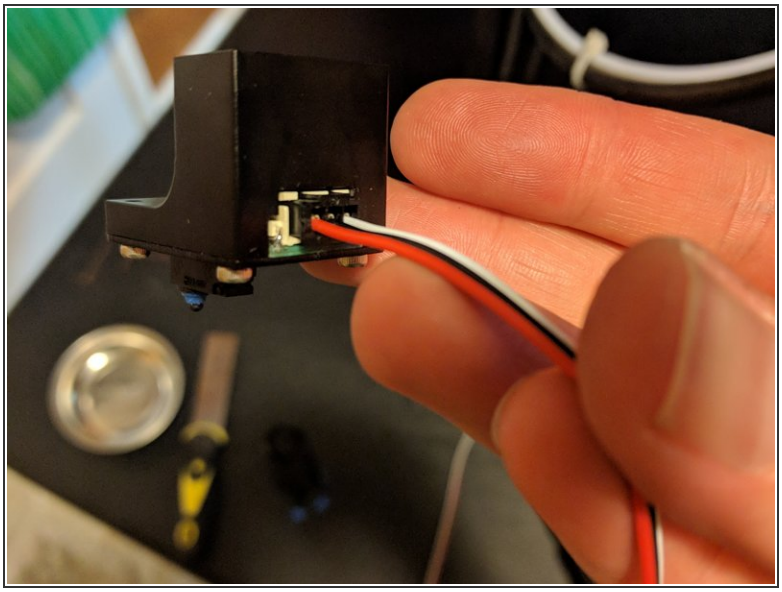
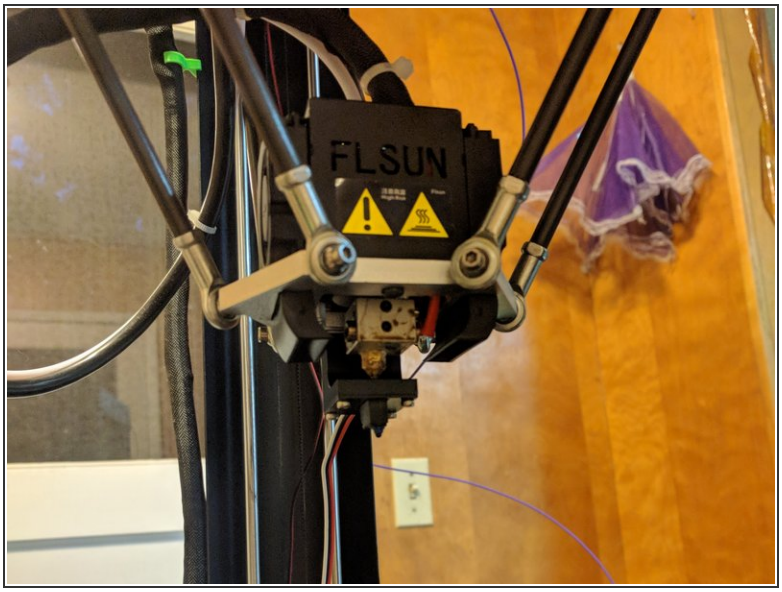
Step 7 — Install New Effector



- Install fan ducts in new effector.
- Attach the magnetic sensor dock to the new effector and mount the effector and heating element with the 3 small screws from earlier.
- Reatach the whole assembly to the rods with the 6 long screws removed earlier.

Step 8 — Install New Sensor





- plug the new sensor into the other end of the connector cable
- attach the sensor to the magnetic mount

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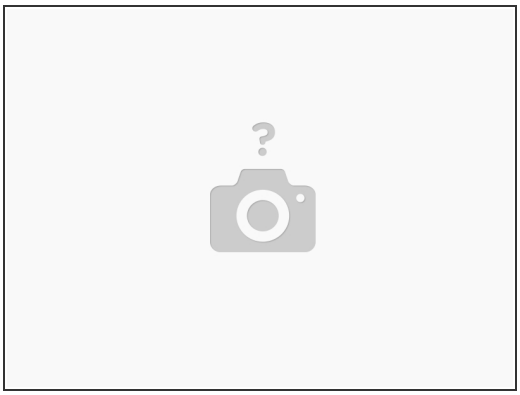
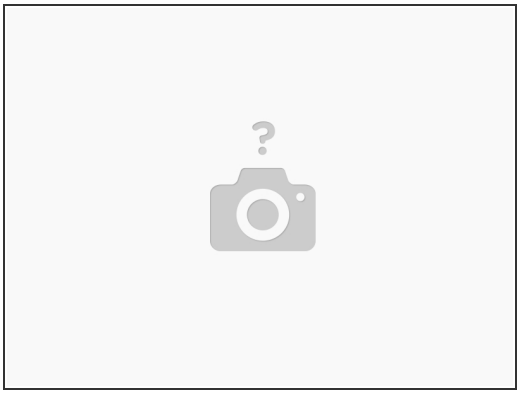
Step 9 — Firmware



- For the leveling sensor to work you will need new firmware.
- Download it from https://www.dropbox.com/sh/p2jltxhkua629...
- Unarchive the files.
- Copy them to the root of an SD card
- Make sure the printer is powered down
- Insert the SD card with the firmware
- Power on the printer.
- The printer will update it's firmware.

Step 10 — The End



- Congratulations your QQ is now upgraded!

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