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Cube 3D Printer

“Lesson – Print Jet Replacement”

Revision date: 10/20/13



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Objectives

After completing this lesson you will:

- Be able to remove and replace a print jet on your machine

What You Will Need

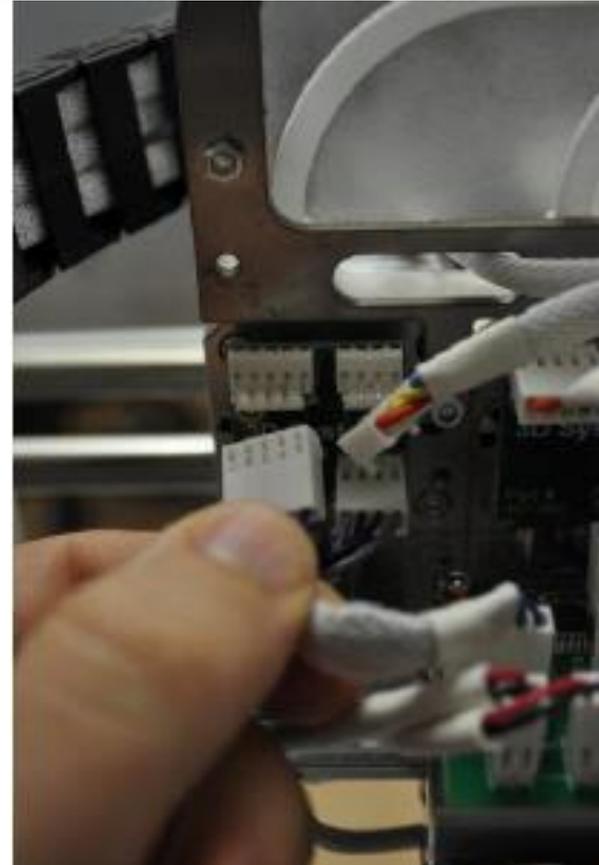
- Print Jet Assembly
- 2.5mm Hex Driver
- Pliers
- T10 Torx Key

First Steps

Before beginning this process please remove all filament from the print jets and check that your print pad is level. For instructions on how to do this please refer to the leveling the print plate presentation in course 1.

Removing the Damaged Print Jet

1. Turn off the CubeX printer and unplug it from the mains power.
2. Unplug the two white looms from the top of the damaged print jet's sensor board.



Removing the Print Jet

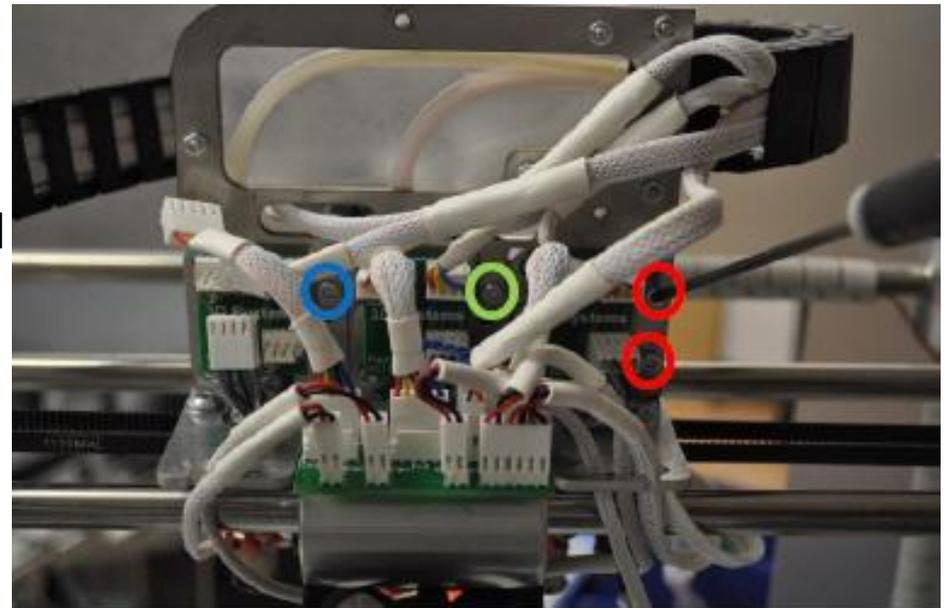
3. Label the Print Jet motor looms with the corresponding print jet number and unplug them.



Removing the Print Jet

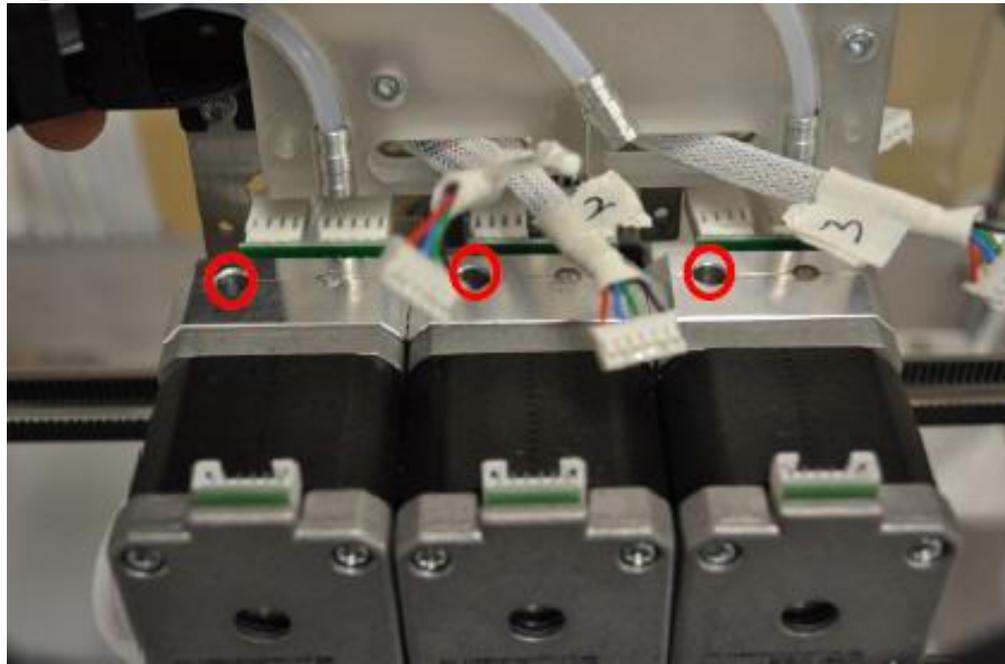
4. Remove the bolts holding the Feed Tube mount in place. The amount of bolts will vary depending on the amount of print jets your CubeX has.

- A CubeX will have the bolts circled in red.
- A CubeX duo will have the two bolts circled in red and the bolt circled in green.
- A CubeX trio has the bolts circled in red, green and blue.



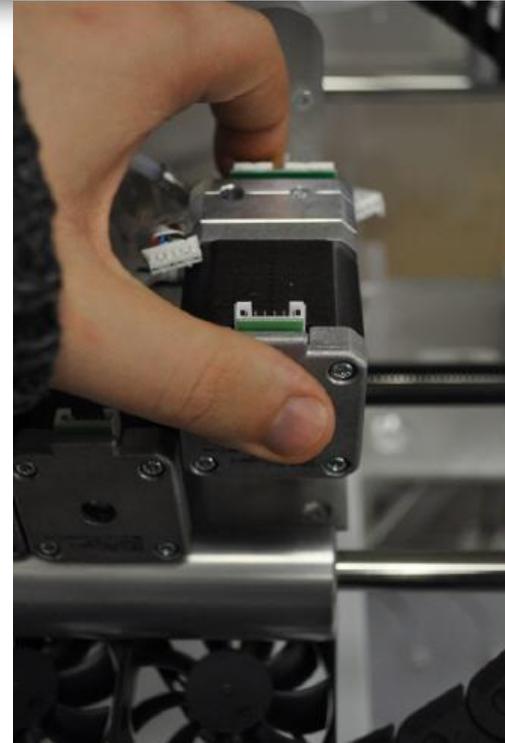
Removing the Print Jet

5. You should now be able to move the Feed Tube mount from the top of the print jets to expose the print jet mounting bolt.



Removing the Print Jet

6. Remove the mounting bolt.
This can be very tight.



7. You should now be able to lift the print jet away from the Print Jet carriage plate.

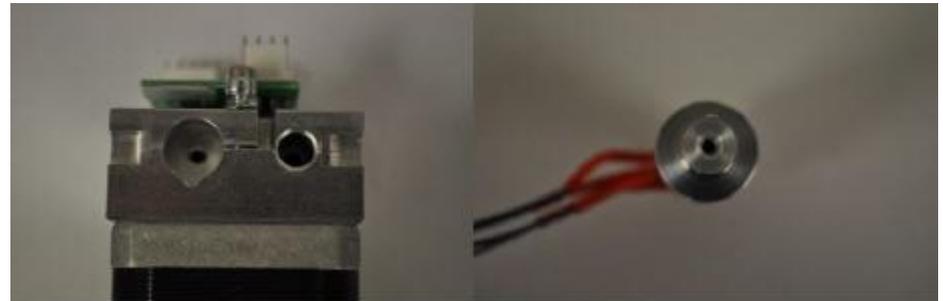
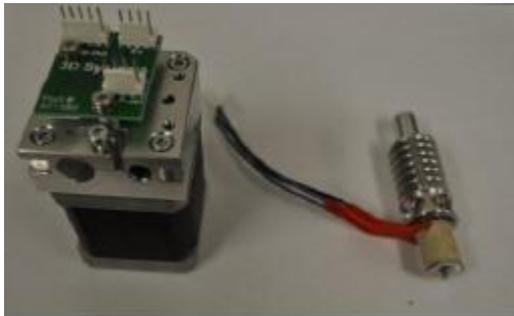
Installing the New Print Jet

1. Check your Print Jet is assembled and that the print tip moves freely when pushed in and out of the drive. The Print tip moves freely for the leveling process. Once the leveling process has been completed the Print tip will be locked off.



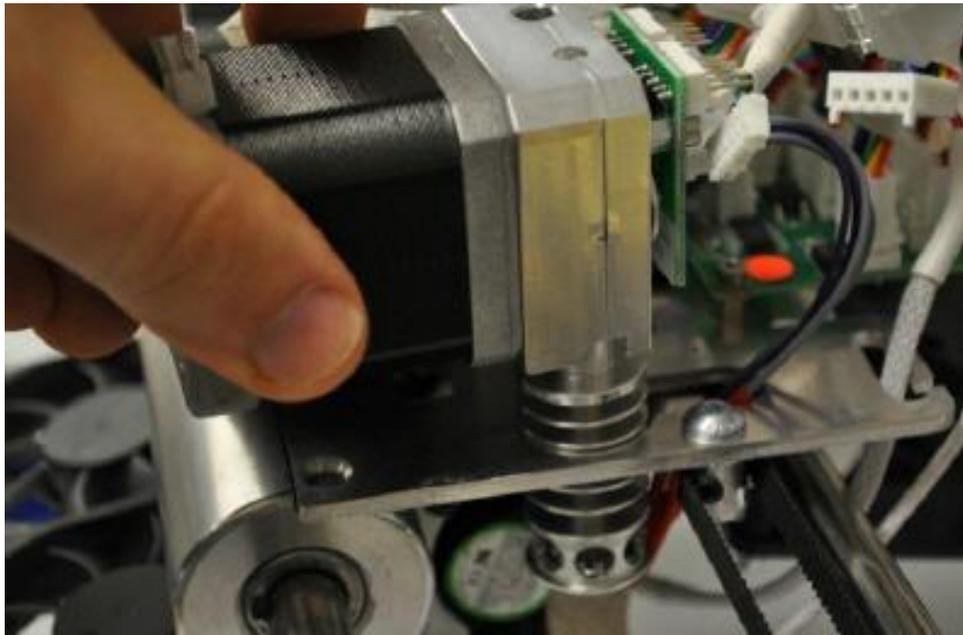
Installing the New Print Jet

If your Print Jet and print tip are not assembled together when you receive them, you can assemble them by inserting the locating end of the Print tip into the Print Jet as pictured below.



Installing the New Print Jet

2. Place the Print Jet onto the Print Jet carriage plate as pictured, note the locating standoff and corresponding hole present on the Print Jet



3. Ensure that the wires from the Print tip are oriented to travel straight up to the Sensor board

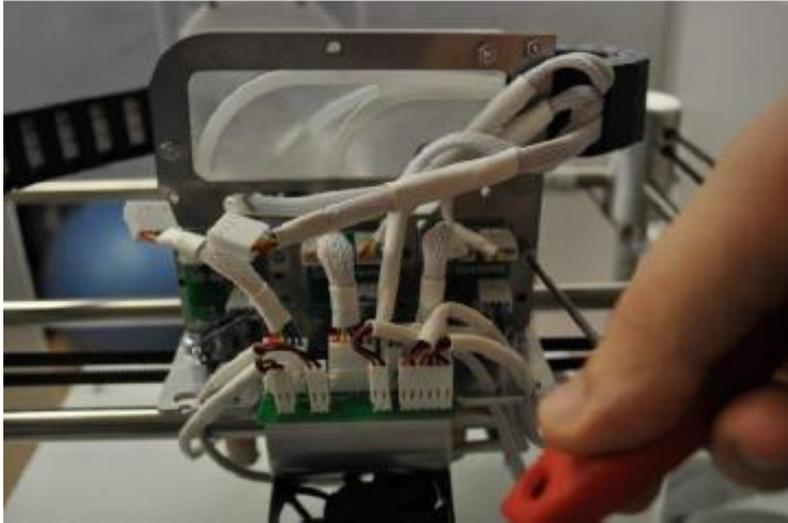
Installing the New Print Jet

4. Replace the M3 x 20 bolt into the hole as pictured and fasten. This must be tight.

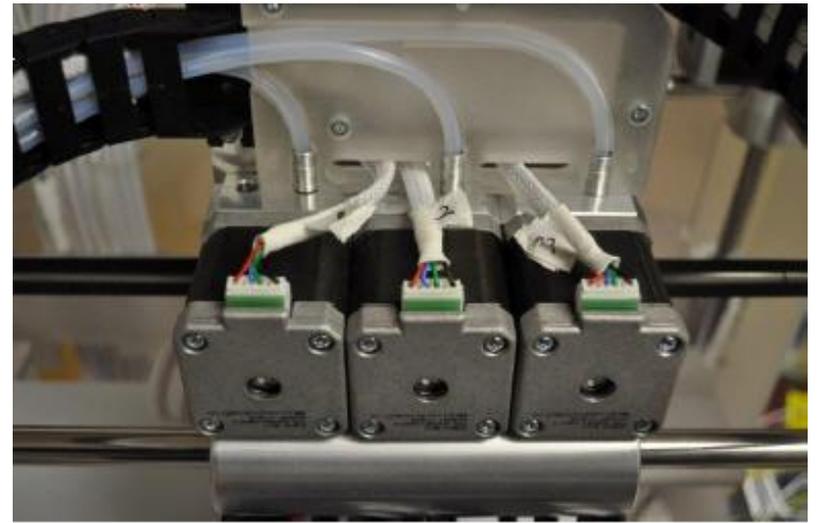


Installing the New Print Jet

5. Re attach the Feed Tube mount.



6. Plug the motor looms back into their corresponding motors.



Installing the New Print Jet

7. Plug in the Print Jet sensor board looms.



After Installation

- For a DUO or TRIO you will need to level the print tips (refer to the “leveling and Z-gap” lesson).
- For a DUO or Trio you will need to set the print tip offsets (refer to the “setting print jet offsets” lesson).