

CubePro[™]

Prosumer 3D Printer





Original Instructions

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2 CUBIFY SUSTAINABILITY PROGRAM



Thank you for purchasing the CubePro[™] 3D prosumer and hobbyist printer. This printer allows you to express your creativity like never before. With many different material colors to choose from, enjoy the freedom to print in color or mix it up.

With its ready-to-print technology, the CubePro provides a new dimension to your imagination and helps you share your creations with others in the Cubify community at www.cubify.com. At www.cubify.com you can:

- Upload your creations
- · Purchase creations from others
- · Get your creations 3D-printed and shipped to you
- Buy the CubePro 3D printer and CubePro material cartridges
- · Engage with other creative partners

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FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

- -Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.



NOTE: Changes or modifications to this equipment not specifically approved by 3D Systems may void the user's authority to operate this equipment.

KCC

이 기기는 가정용(B급) 전자파적합기기로서 주 로 가정에서 사용하는 것을 목적으로 하며, 모 든 지역에서 사용할 수 있습니다.

This equipment is home use (Class B) electromagnetic wave suitability equipment and to be used mainly at home and it can be used in all areas.

COMPLIANCE

This equipment conforms with International Electric Committee (IEC) 60950-1 and meets the requirements of the applicable EC directives.



CAN ICES-3 (B)/NMB-3(B)

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

WARRANTY

3D Systems warrants that the CubePro 3D Printer will be free from defects in materials and workmanship, during the applicable warranty period, when used under the normal conditions described in the documentation provided to you, including this User Guide. 3D Systems will promptly repair or replace the CubePro 3D Printer, if required, to make it free of defects during the warranty period. This warranty excludes (i) normal consumable or expendable parts (such as Material Cartridges), (ii) repairs required during the warranty period because of abnormal use or conditions (such as riots, floods, misuse, neglect or improper service by anyone except 3D Systems or its authorized service provider), and (iii) repairs required during the warranty period because of the use of non-integrated, non-approved or non-licensed materials with the CubePro 3D Printer. The warranty period for the CubePro 3D printer is the shorter of (i) 90 days from the date your CubePro 3D printer is activated or (ii) 24 months after the CubePro 3D Printer is shipped from 3D Systems to the end customer or intermediary. For consumers who are covered by consumer protection laws or regulations in their country of purchase or, if different, their country of residence, the benefits conferred by our ninety (90) day warranty are in addition to, and operate concurrently with, all rights and remedies conveyed by such consumer protection laws and regulations, including but not limited to these additional rights.

THIS WARRANTY IS THE ONLY WARRANTY PROVIDED FOR THE CUBEPRO 3D PRINTER. TO THE MAXIMUM EXTENT PERMITTED BY LAW, 3D SYSTEMS EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES FOR THE CUBEPRO 3D PRINTER AND EACH OF ITS COMPONENTS, WHETHER THOSE WARRANTIES ARE EXPRESS, IMPLIED OR STATUTORY, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR INTENDED OR PARTICULAR PURPOSES.

LIMITATION OF LIABILITY

3D SYSTEMS WILL NOT BE RESPONSIBLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, EXEMPLARY OR INCIDENTAL DAMAGES (SUCH AS LOSS OF PROFIT OR EMPLOYEE'S TIME) REGARDLESS OF THE REASON. IN NO EVENT SHALL THE LIABILITY AND/OR OBLIGATIONS OF 3D SYSTEMS ARISING OUT OF THE PURCHASE, LEASE, LICENSE AND/OR USE OF THE EQUIPMENT BY YOU OR OTHERS EXCEED THE PURCHASE PRICE OF THE CUBEPRO 3D PRINTER.

Warranty Hotline from the Americas

Warranty Hotline from Europe

888-598-1440 inside the US and +1 678-338-3480 outside the US weekdays during normal business hours or by email at cubifysupport@cubify. com. +44 1442 279 839 (UK) or +49 6151 357 499 (DE) weekdays during normal business hours or by email at cubifysupport@cubify.com. Warranty Hotline from Europe

+44 1442 279 839 (UK) or +49 6151 357 499 (DE) weekdays during normal business hours or by email at cubifysupport@cubify.com.

SAFETY SYMBOLS AND DEFINITIONS



HOT SURFACE HAZARD: A HOT SURFACE IS ACCESSIBLE IN THE VICINITY OF THIS SIGN OR AT THE PRINT JET. AVOID CONTACT WITH THESE AREAS. HOT SURFACES CAN CAUSE SEVERE BURNS.



Caution: Indicates something may happen that could cause loss of data, damage to equipment, or could cause personal injury.



Caution: Indicates a pinch point hazard that could cause personal injury.



SHOCK WARNING: INDICATES A POTENTIAL SHOCK HAZARD.

SAFETY GUIDELINES

- Follow all safety rules in this section and observe all cautions and warnings in this guide.
- Do not modify any safety features or make modifications to the CubePro. Doing so is prohibited and voids the warranty.
- Use of print materials other than genuine 3D Systems components may void the warranty.



WARNING: HAZARDOUS MOVING PARTS. KEEP FINGERS AND OTHER BODY PARTS AWAY.



HOT SURFACE HAZARD: DO NOT TOUCH THE PRINT JETS DURING SETUP AND OPERATION. THE PRINT JETS BECOME VERY HOT.



Caution: Read and follow all instruction prior to setting up the printer.



SHOCK WARNING: DUE TO RISK OF SHOCK, AVOID CONTACT WITH ALL INTERNAL ELECTRONIC COMPONENTS.



WARNING: THE CUBEPRO SHOULD ONLY BE SERVICED BY AUTHORIZED SERVICE TECHNICIANS. PRIOR TO ANY PART REPLACEMENT PROCEDURE, THE PRINTER MUST BE POWERED OFF AND DISCONNECTED FROM UTILITY POWER.



HOT SURFACE HAZARD: WHEN PRINTING WITH ABS MATERIAL, THE INTERIOR (PRINT CHAMBER) OF THE PRINTER WILL HEAT TO A PREDETERMINED TEMPERATURE. THE SURFACE OF THE PRINT CHAMBER HEATER WILL BE HOT. AVOID CONTACT WITH THE PRINT CHAMBER HEATER AND NOTE THAT OTHER COMPONENTS INSIDE THE PRINT CHAMBER MAY BE HOT.

To ensure safety, please exercise caution when operating your CubePro. Read and follow all safety precautions as outlined in this user guide. Be careful when operating your CubePro to ensure proper printing and be mindful of and avoid hot surfaces.

The CubePro 3D printer prints the model by pulling material from the cartridge through the print jets via the delivery tubes. The material is then jetted through the print jet in a thin string of molten material. The print jet movement is coordinated by the print plate, which lowers incrementally after each layer is deposited so a new layer can be drawn on top of the last, building the part up.

CUBEPRO 3D PRINTER PROPERTIES

- Plastic Jet Printing (PJP) technology
- Houses up to three print jets for multi-color and multi-material prints
- · Choice between ABS and PLA plastic, both recyclable
- Prints objects up to 275 x 265 x 230 mm (10.75"x10.5"x9.05")
- Smart Insta Load print cartridge
- Fully automated supports: peel off supports for ABS and PLA. PLA supports can also be removed using an Ultrasonic Support Removal Tank available at http://cubify.com/en/CubePro/Supplies.

PRINT MATERIALS

By default, the CubePro can print PLA and ABS print material. Each material has unique benefits and you can guide your selection based on the properties your part requires.

- PLA This is a hard plastic that has a low environmental impact. It is derived from renewable, starch-based resources.
 - We recommend using PLA when printing extra-large parts on CubePro as it is a more stable print material.
 - PLA is the optimal support material for industrial ABS parts. PLA has the ability to dissolve away in caustic soda solutions supported by an ultra-sonic tank.
- **ABS** This is a well-known plastic known for its strength and industrial properties.
 - As a build material, ABS is good for both small and large parts.
 - ABS works well as a support material for extra-large PLA parts.

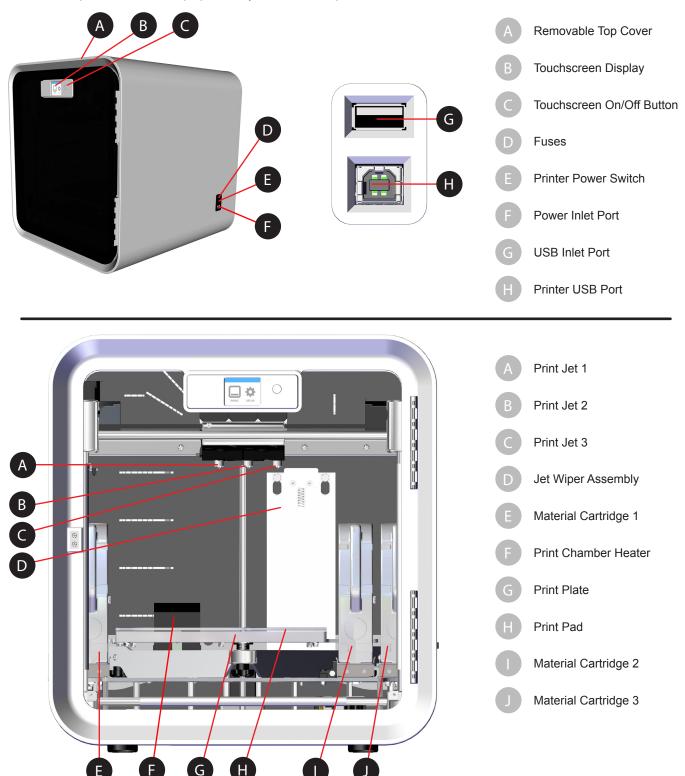
MATERIAL COLOR CHOICES

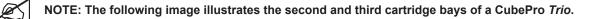
There are multiple material color choices available. Visit www.cubify.com for a listing of available material types and colors.

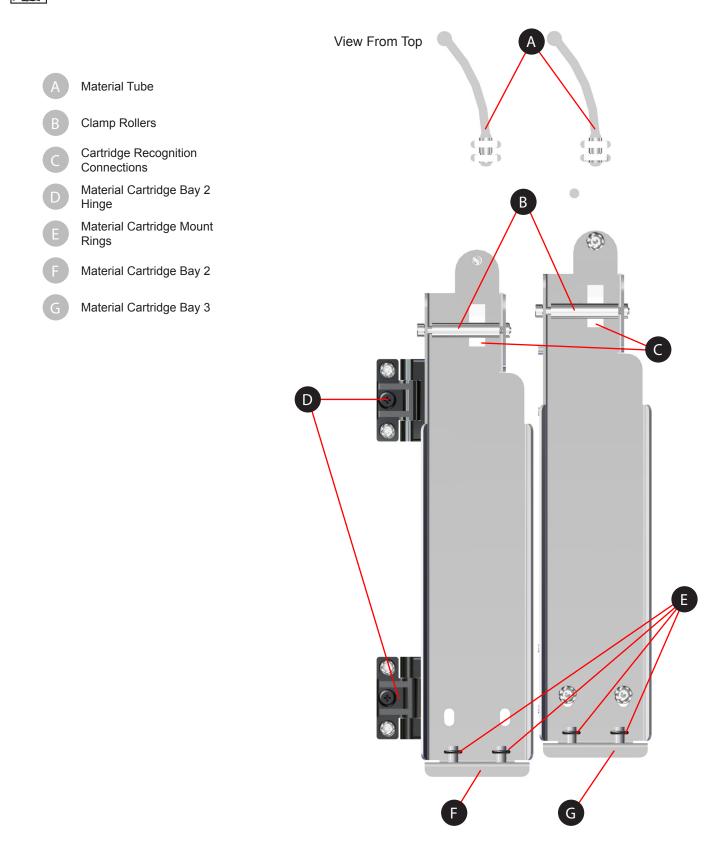


Get acquainted with your CubePro 3D printer before you begin printing. This section identifies the important areas that will be discussed throughout this guide.

CubePro Trio is depicted for illustration purposes only. Locations of important areas are the same for the CubePro and CubePro Duo.







DIMENSIONS AND WEIGHT

Weight and Dimensions

• 566.7 mm (w) x 581.0 mm (d) x 606.4 mm (h) (22 5/16" (w) x 22 7/8" (d) x 23 7/8" (h))

Unboxed:

- 41 kg (90.7 lbs.)
- 43 kg (94.3 lbs.) Duo
- 44 kg (98 lbs.) Trio

Boxed:

- Maximum: 58.97 kg (130 lbs.)
- Maximum: 59.87 kg (132 lbs.) Duo
- Maximum: 60.78 kg (134 lbs.) Trio

PC REQUIREMENTS

- Microsoft® Windows® 7 and above
- Multi-core processor 2GHz or faster per core
- System RAM 2GB
- Screen resolution 1024 x 768 dpi

SOFTWARE

CubePro Client Software - Available at www.cubify.com.

ELECTRICAL REQUIREMENTS

• 100-240V AC 50-60 Hz auto switching, 6A

MATERIAL STORAGE

Although all polymers degrade with time, the following conditions help ensure the quality of the material:

- Unpack the material only as needed
- Store the material at 18-29°C (65-85°F)
- Store the material enclosed in a dry environment (low humidity)
- Use within 12 months of receipt

CONTENTS



CubePro printer



Material cartridge*



Cube[®] Glue (x2)







Jet Wiper

Power cord

Î



Toolkit



USB Stick



Your Cubify' Invent' License Code:

T. Hex Drivers T-Handle (2.5mm, 3mm and (T10 Torx)



Sandpaper





Wrench Print Pad Cleaner (8 mm)



4mm)





NOTE: The appearance of some components may vary.

UNPACKING AND SETTING UP YOUR CUBEPRO



CAUTION: Due to the size and weight of the printer, this procedure may require more than one person. Ensure there are enough people to safely and comfortably move the printer to its final location.



NOTE: Ensure that you save all foam and packing material for the future repacking of your CubePro. Transporting the printer without original packing materials may damage the printer.

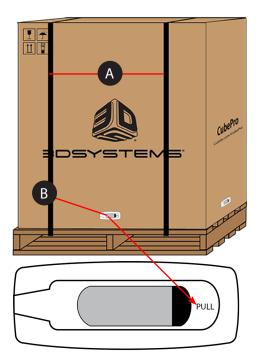
1. Carefully cut the straps (A) if applicable and then pull the tabs (B) on all four release clips.

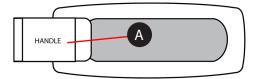


2.

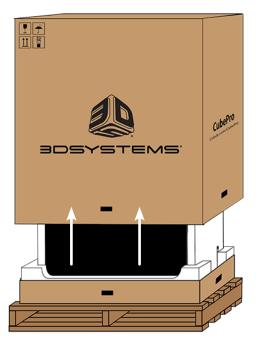
NOTE: There is one release clip on each side of the box.

Pull the handles (A) and remove the release clips from the outer box.





3. Lift the box away from the printer.



4. Remove the accessories tray (A).

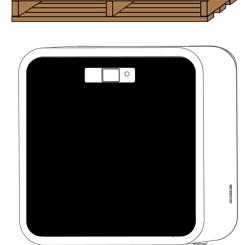
5. Remove the upper foam supports (A) from the printer.

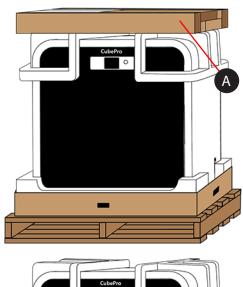
6. Pull the protective bag down around the printer and remove the printer assembly from the lower foam support.

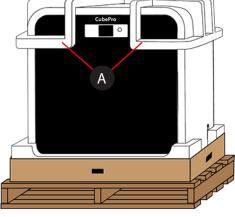
7. Position the printer where it will be used.



NOTE: Ensure the printer is placed in a location where its size and weight will be properly supported.





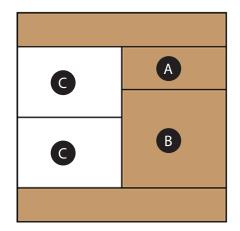


0

8. Unpack the top layer of the accessories tray.



NOTE: Depending on the printer configuration, the arrangement of the accessory boxes may differ. Unpack the power cord (A), the spacer (B), material cartridge, tool kit and Cube Glue(C). Your configuration may include 1, 2 or three cartridges. For configurations with fewer than three cartridges included, empty boxes may be used as spacers.



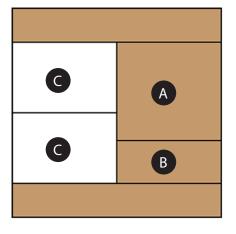
9. Unpack the bottom layer of the accessories tray.

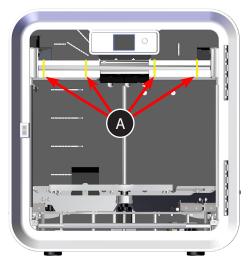


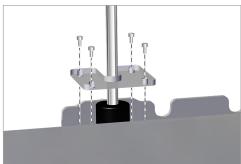
NOTE: Depending on the printer configuration, the arrangement of the accessory boxes may differ. Unpack the print pad (A), the jet wiper assembly (B), and material cartridges (C). Your configuration may include 1, 2 or 3 cartridges. For configurations with fewer than three cartridges included, empty boxes may be used as spacers.

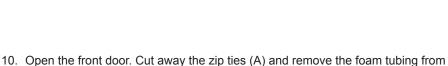


CAUTION: The print pad is fragile. Exercise caution when handling the print pad.











the print jet area.

NOTE: For a illustration purposes only, the door was removed from the image. Do not attempt to remove the door from the printer.

11. Loosen and remove the four (4) 4mm screws securing the Z-Axis guard and remove the guard. Save the guard and screws for future repacking.

12. Using a 4mm hex head driver, attach the mounting posts to the jet wiper assembly with the supplied screws and washers.

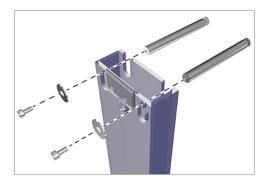


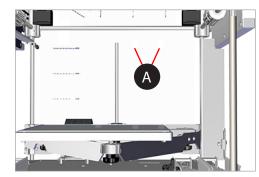
NOTE: Tighten the screws until the posts are secure.

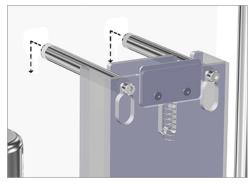


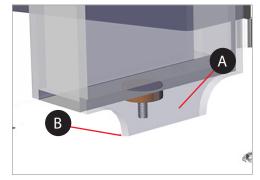
CAUTION: Do not over-tighten the screws. The jet wiper assembly can break if the screws are over-tightened.

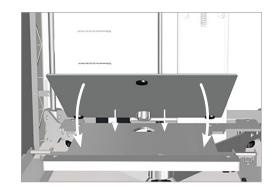
13. Move the jet wiper assembly to the back of the printer and locate the keyhole slots (A).











14. Mount the jet wiper mounting posts to the back panel of the printer through the keyhole slots.



NOTE: Slide the mounting pins downward.

the jet wiper assembly downward.



NOTE: If the jet wiper assembly is fully seated into the keyhole slots but the bottom does not rest on the thumbscrew head, remove the jet wiper and turn the thumbscrew counter-clockwise until the jet wiper bottom rests on the thumbscrew head and the keyhole slots are fully seated. This may require repeated removals and re-installations of the jet wiper. If the keyhole slots will not seat, the thumbscrew may need to be adjusted downward by turning clockwise.

15. Align the jet wiper assembly bottom tab (A) with the slot in the floor (B) and slide



NOTE: Refer to the section titled Adjusting the Jet Wiper Assembly for information about adjusting the jet wiper scraper height.

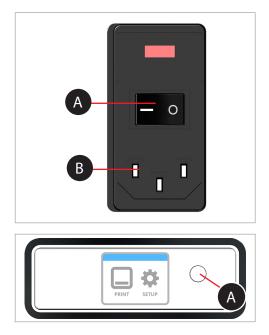
16. Remove the print pad from the box and place it onto the print platform with the round magnet on the bottom of the pad inserted into the triangular opening on the platform. Ensure the print pad is securely seated on the print plate.

17. Connect the power cord to the power inlet port (B) on the right side of the printer and the other end to a wall outlet. Press the power on/off switch (A) to power on the CubePro.

- 18. Press the on/off button (A) beside the LED screen to power on the CubePro touchscreen display.
- 19. Press the touchscreen to navigate to the main menu.



NOTE: Turning on the touchscreen will also turn on the interior LED lights.



SETUP AND ACTIVATE YOUR CUBEPRO

1. Select your language. Press the checkmark to confirm your selection.

 Enter a name for your printer. Scroll to the letters you wish to select by pressing the arrow symbols on each side of the screen. Press the letters to select them. Select the checkmark to continue. If you do not wish to name your CubePro, press SKIP to move to the next screen and continue with step 4.

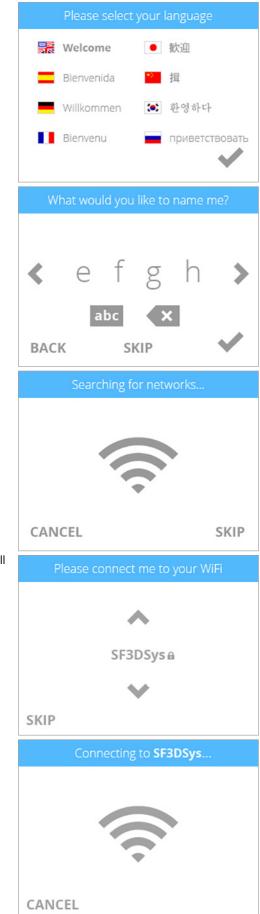
3. Connect your printer to your wireless network. Use the up or down arrow to scroll to your network choice. Select your network.

NOTE: The printer will search for area wireless networks.

NOTE: If your network is password protected, the printer will first prompt you to enter the password.



NOTE: The printer can also connect to an ad hoc network, a decentralized network that wirelessly connects a local computer to the printer directly. The computer must have a wireless adapter configured for ad-hoc mode. The adapter must use the same SSID as is found in the printer. Connecting to an ad hoc network is discussed further in the section titled Setting Up an Ad Hoc Network.





NOTE: Connection to a network is confirmed when a checkmark appears to the left of the network name. If the network is secured, a lock icon will appear to the right of the network name.

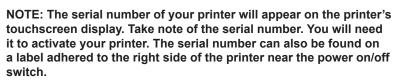
4. Select the checkmark to continue the warranty activation process.

5. Log in to Cubify.com. Go to www.cubify.com, select My Cubify and log in to your account.



NOTE: You must be logged in to www.cubify.com to activate your printer. If you have not activated an account, select SIGN UP and enter the appropriate information.

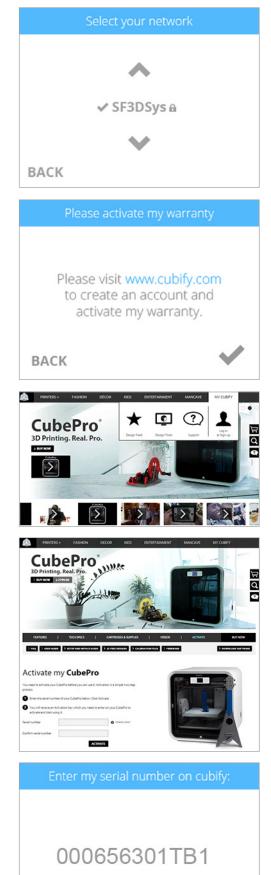
6. Navigate to www.cubify.com/en/CubePro/Activate.



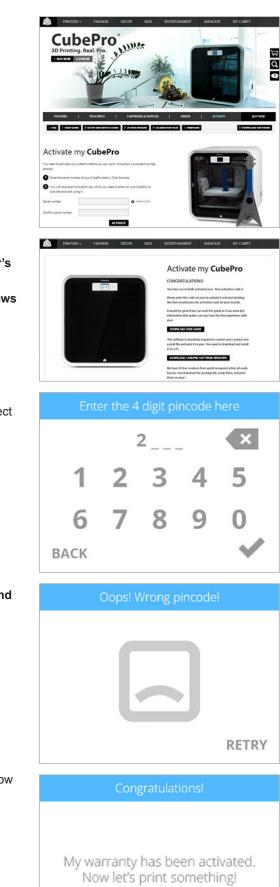
7. Select the checkmark to continue.



NOTE: This illustration provides an example of a serial number. Do not use this number to activate your printer.



8. Enter your serial number twice and select Activate.





NOTE: Your 4-digit activation code will appear. Please note the activation code because it will need to be entered into the printer's touchscreen display to activate the printer.

NOTE: You can access the User Guide, software for either Windows or Apple operating systems, and free creations.

 After receiving your activation code during the registration and warranty activation process, enter your 4-digit code in the touchscreen display. Select the checkmark to continue.



NOTE: If the wrong activation code was entered, select **RETRY** and enter the activation code again.

10. Select the **checkmark** to complete the activation process. Your printer is now ready to print a creation.

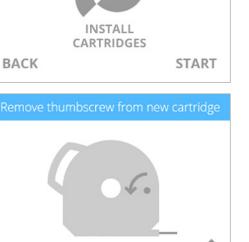
11. To install cartridges and perform a test print, select **START**.

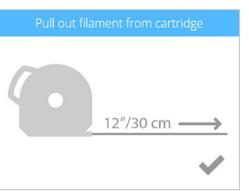


NOTE: Install the cartridge in cartridge bay 1 on the left side of the printer.

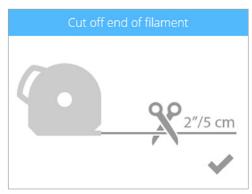
12. Open the packaging and remove the thumbscrew from the new cartridge. Select the **checkmark** to continue.

13. Pull out 12"/30 cm of material from the material cartridge. Select the **checkmark** to continue.





CANCEL



14. Cut off 2"/5 cm of print material from the end. Select the **checkmark** to continue.



NOTE: Ensure the material is not bent or creased. If the material is not straight, pull out the damaged material from the cartridge. Cut off and dispose the portion that is not straight.

15. Insert the print material under the cartridge clamp roller of cartridge bay 1 and into the material tube. Select the **checkmark** to continue.



- 16. Continue to manually feed the print material through the material tube until it begins to extrude from print jet 1 into the jet wiper assembly. Select the checkmark to continue.

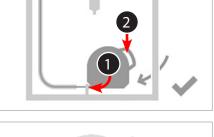
NOTE: When the material reaches far enough into the extruder, the extruder motor will assist with feeding the material further into the print jet.

17. (1) Push the front of the cartridge into place. (2) Then, push the cartridge handle downward until the cartridge is fully seated in its cartridge bay mount. Select the checkmark to continue.

> NOTE: Ensure the front of the cartridge (A) where the material exits is seated under the clamp roller and between the vertical alignment pins in the cartridge bay.

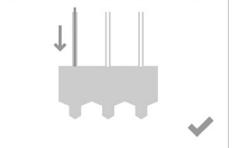
18. To continue with the test print, select **PRINT**.

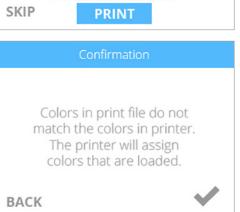
NOTE: If the test print file uses a color that is not installed in the printer, select the checkmark to enable the printer to change the color of the print to a color currently installed.











19. Apply two thin layers of Cube Glue to the print pad. Select the **checkmark** to continue.



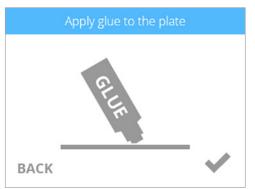
NOTE: For more information, refer to the section titled "Applying Cube Glue."

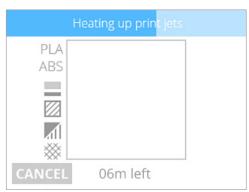


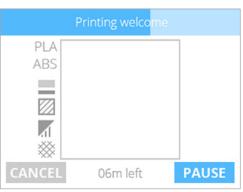
NOTE: Apply enough glue to cover a square area of 5"/15 cm in the center of the print pad.

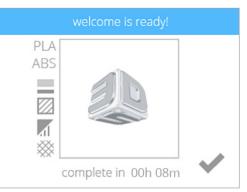


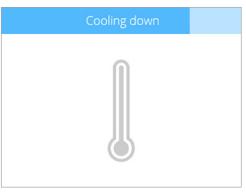
NOTE: For best results, ensure the glue is dry prior to printing.













NOTE: Print jet 1 will begin to heat.



NOTE: The printer will begin printing the welcome message test print.

20. Select the **checkmark** to continue to go to the main menu.



NOTE: Please wait while the print jet cools.

MENU OVERVIEW

Touchscreen Display

After powering on the printer and turning on the touchscreen display, touch the display to continue.



CAUTION: When using the touchscreen, use only light finger pressure to make selections. Using anything sharp will damage the touchscreen display and will void the manufacturer's warranty.

Print / Setup

PRINT allows the user to print a creation stored either on a USB mass storage device or from the CubePro software. You can invent your own creation by using Cubify Invent software available at www.cubify.com.

SETUP allows the user to configure the printer, connect to a wireless or ad hoc network, install cartridges, or view the printer status.



Materials

Navigation between screens is performed by pressing the right or left arrows.

is installed. It also displays the estimated amount of material left in the cartridge.

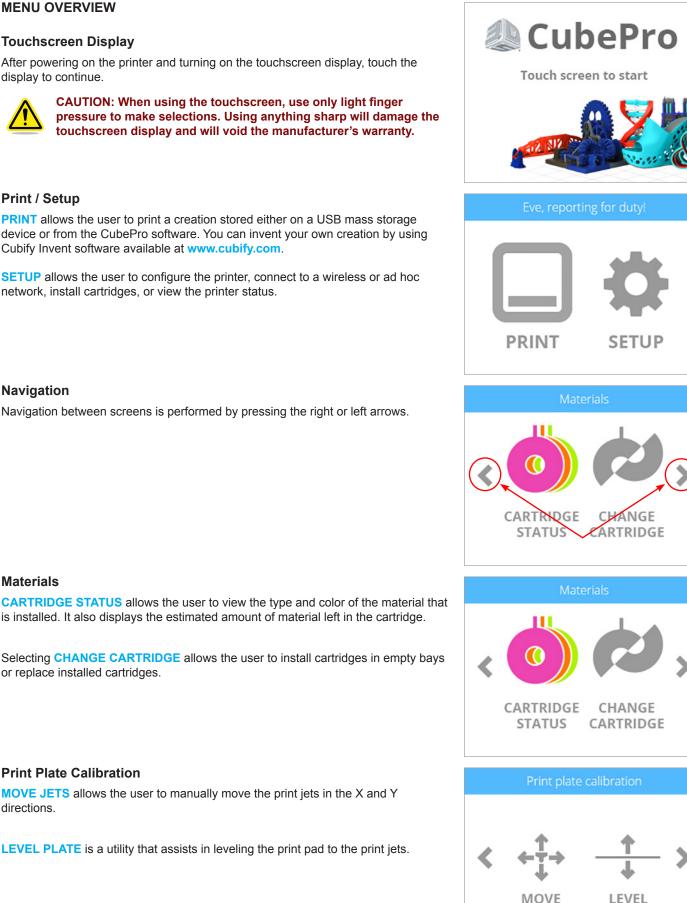


or replace installed cartridges.

Print Plate Calibration

MOVE JETS allows the user to manually move the print jets in the X and Y directions.

LEVEL PLATE is a utility that assists in leveling the print pad to the print jets.



JETS

PLATE

Print Jet Calibration

CONTROL JETS allows the user to test the operation of the extruders and print jets.

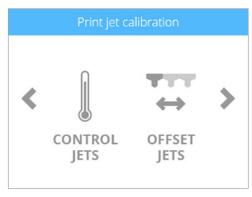
OFFSET JETS is a utility that defines the parameters of the space between the print jets.



CAUTION: Do not change any of the values in the OFFSET JETS utility unless advised to do so by Cubify Support. Any changes will alter the print quality of your creations.

Network

The **Network** menu allows the user to connect to a wireless network or to an ad hoc device.





System

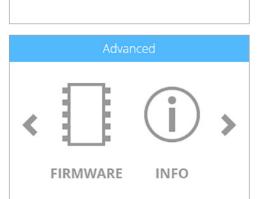
SELECT LANGUAGE allows the user to localize the printer to their language.

LIGHT allows the user to turn on or off the print jet LEDs. The other interior LEDs are managed by the firmware when the CubePro is powered on.

Advanced

Selecting the **FIRMWARE** icon allows the user to update their firmware either with a file downloaded to a USB mass storage device or by wireless connection.

By selecting **INFO**, the printer will display the printer status including the serial number, the print jet temperatures, and the name of the wireless network to which the printer is connected.



LIGHT

SELECT

LANGUAGE

Material Upgrades

MATERIAL UPGRADES us a utility that activates the use of optional materials within the printer once the upgrade has been purchased. Once the upgrade has been purchased on www.cubify.com, you will receive an activation code that must be entered into the touchscreen display.



INSTALLING A MATERIAL CARTRIDGE

Before the printer will print a creation, the correct type of cartridge(s) must be installed in the printer. If the printer recognizes that no cartridge has been installed, the display will prompt you to install the appropriate cartridge.

1. Select CHANGE CARTRIDGE from the SETUP menu.



Select cartridge to change





2. Select the **cartridge** to be installed.

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NOTE: The print jet will begin to heat.

3. Open the **packaging** and remove the **thumbscrew** from the new cartridge. Select the **checkmark** to continue.

3D Systems, Inc.

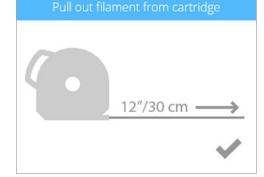
4. Pull out 12"/30 cm of material from the cartridge. Select the checkmark to continue.

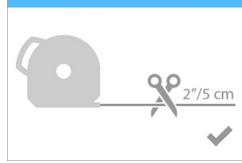
- 5. Cut off 2"/5 cm of material from the end. Select the checkmark to continue.
 - NOTE: Ensure the material is not bent or creased. If the material is not straight, pull out the damaged material from the cartridge. Cut off and dispose the portion that is not straight.

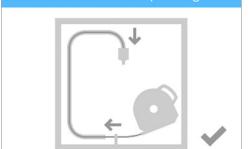
Insert the material under the clamp roller and into the material tube. Select the 6. checkmark to continue.

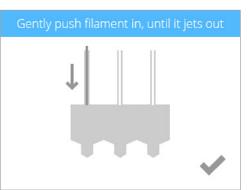
Gently push the print material into the print jet until print material extrudes into 7. the jet wiper. Select the checkmark to continue.

> NOTE: When the material reaches far enough into the print jet area, a motor will assist with feeding the material into the print jet.







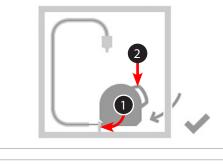




8. (1) Push the front of the cartridge into place. (2) Then, push the cartridge handle downward until the cartridge is fully seated in its mount. Select the **checkmark** to continue.

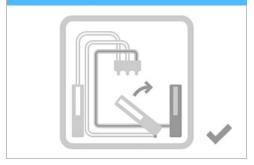
NOTE: Ensure the front of the cartridge (A) where the material exits is seated under the clamp roller and between the vertical alignment pins in the cartridge bay.

Push cartridge in place





Rotate cartridge back to vertical position



CAUTION: If replacing the third cartridge, be sure to rotate the second bay cartridge to its vertical position before selecting the checkmark.



NOTE: The print pad must be calibrated before printing your first creation. For more information, refer to the following section titled Calibrate Print Pad.



There are many 3D creations available at www.cubify.com. In addition, you can create your own with the included Cubify Invent software. For more information about converting a .stl file into a .cubepro file which the printer can use, refer to the section titled **CubePro Software**.

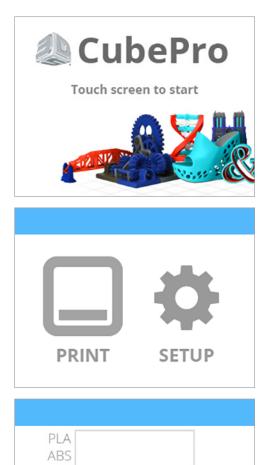
PRINTING PROCEDURE

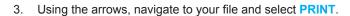
Select **PRINT**.

2.

The following steps illustrate how to print a creation.

1. After powering up your printer and turning on your display, press the **touchscreen** to begin.





device into the USB port on the printer.

wireless connection.



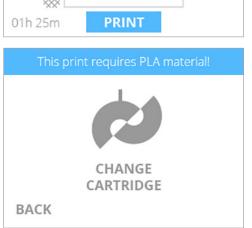
NOTE: The file name will be displayed at the top.

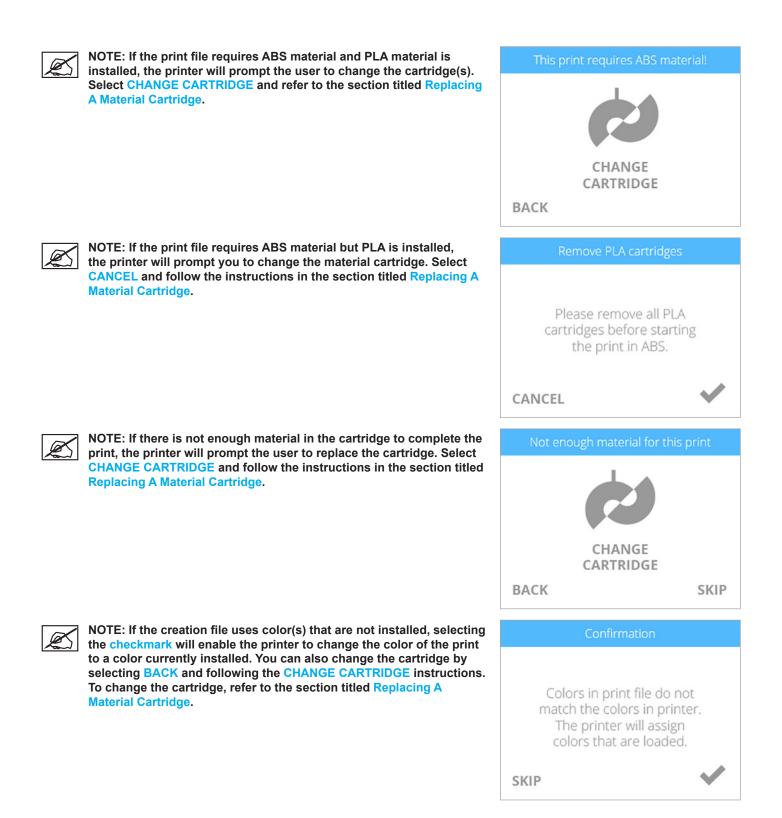
NOTE: If the file is saved on a USB mass storage device, insert the

NOTE: You can also print directly from the CubePro software using a



NOTE: If the print file requires PLA material and ABS material is installed, the printer will prompt you to change the cartridge(s). Select CHANGE CARTRIDGE and refer to the section titled Replacing A Material Cartridge.





4. Apply two (2) thin layers of glue to the center of the plate. Select the **checkmark** to continue.



NOTE: For more information, refer to the section titled Applying Cube Glue.

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NOTE: For small print file sizes, use a light coating of glue. For larger parts, a slightly thicker coating of glue is recommended. When the printer begins to print, the glue surface should be mostly dry. The temperature from the print material will melt the surface of the glue increasing its adhesion.



NOTE: Ensure that the area where glue is applied is larger than the base of your creation.

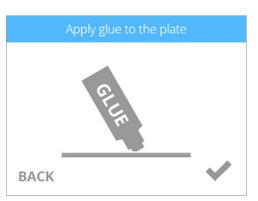


NOTE: The estimated time to completion is noted at the bottom of the screen.

NOTE: When printing with ABS material, the print chamber will need to build and maintain a predetermined temperature. Ensure the top cover and the back panel have been installed. The front door must

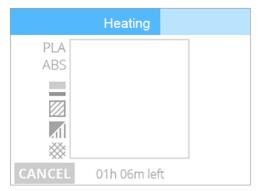
NOTE: When printing with PLA only or both PLA and ABS material,

the print chamber will not need to be preheated.



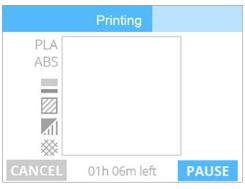






K

NOTE: The blue bar at the top is a progress indicator. Select PAUSE to temporarily stop printing. Select CANCEL if you wish to cancel the print job.



be closed.

temperature.



NOTE: The print jets required for the print job will begin to heat.

CAUTION: Do not touch the print jets until they have cooled to room

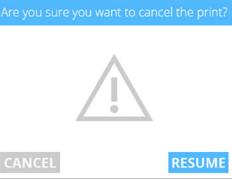


NOTE: Once printing has been paused, select **RESUME** if you wish to continue printing.

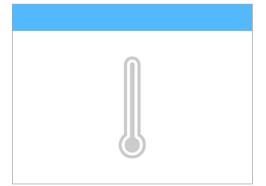




NOTE: To cancel the print job, select CANCEL to confirm your decision. Otherwise, select **RESUME** to continue printing.



PLA ABS



5. Once the printer has finished printing, select the **checkmark** to continue.



NOTE: The print jets will cool down after your creation has finished printing.



CAUTION: Do not touch the print jets until they have cooled to room temperature.

 Refer to the section Finishing Your Creation for information about removing your creation from the print pad and the procedure for cleaning the creation and the print pad.



REMOVING YOUR CREATION FROM THE PRINT PAD



CAUTION: Before attempting to remove your creation from the print pad, ensure that the CubePro has finished printing. Once printing has completed, the print platform and print pad will move to the bottom of the printer.

- 1. Grasp both sides of the print pad, lift upward and remove it from the print platform.
- 2. Submerge the print pad and the base of the part in warm water for twenty (20) minutes.

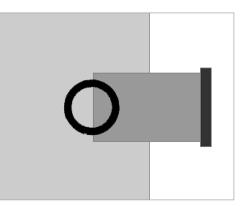


NOTE: If you can not submerge the print pad in warm water, run hot water over the base of the part for twenty (20) minutes.

 Using the print pad cleaner (scraper) included in the tool kit, gently release your creation from the print pad.



NOTE: The appearance of your scraper may differ from the illustration.



- 4. Rinse your creation under hot water to ensure all of the glue has been removed.
- 5. Rinse the print pad under water to clean off any remaining glue.
- 6. Dry the print pad completely before reinstalling it into the printer.

CAUTION: Failure to completely dry the print pad before reinstalling it into the printer can damage sensitive electrical components and void the manufacturer's warranty.

Removing Rafts

A raft is the flat support structure that is attached to the base of your creation if you enabled that option when building the .cubepro file. Though it is recommended that printing be done without a raft, some larger, more complicated parts may require one.

ABS Raft / PLA Part	ABS rafts can be peeled away from PLA parts.
PLA Raft / ABS Part	PLA rafts can be pulled from ABS parts
ABS Raft / ABS Part	Use pliers to pull away as much of the raft as possible. Then use a rough-grade sandpaper to remove the remaining raft material, followed by a fine-grade wet and dry sandpaper to achieve a smoother finish.
PLA Raft / PLA Part	Use pliers to pull away as much of the raft as possible. Then use a rough-grade sandpaper to remove the remaining raft material, followed by a fine-grade wet and dry sandpaper to achieve a smoother finish.

Removing Supports

Supports are used when printing creations that need a supporting structure to print properly. Cut away the support structure from your creation using wire cutters. Once the supports have been cut away, use a fine-grade sandpaper to finish smoothing the part.

REMOVING SUPPORTS - OPTIONAL ULTRASONIC SUPPORT REMOVAL TANK

The Ultrasonic Support Removal Tank automatically removes PLA support material from ABS models. There are two methods for removing or weakening the material.

Method		Advantages		Disadvantages
Hot Water	•	Corrosive chemicals are not used.	•	Support material requires physical force to crumble away.
			•	Support material in hidden cavities may remain if the user is unable to reach them.
			•	The process can be more lengthy.
Caustic Soda	•	Support material is quickly removed.	•	Requires health and safety procedures.
	•	Support material hidden in cavities will be dissolved without physical force.		

Hot Water Method

CAUTION: This process uses hot water (approximately 80°C or 176°F). Wear all Personal Protective Equipment (PPE).



CAUTION: Do not operate without water in the cleaning tank. Damage may occur.



CAUTION: Never use boiling water. Damage may occur.



CAUTION: The unit must be positioned on a flat, stable work surface. Do not tip over or move the tank during its operation. Electrical equipment can become damaged when exposed to water or other fluids.

- 1. Pour 0.75 liters (0.79 quarts) of water into the tank.
- 2. Place the models to be cleaned into the tank.
- 3. Close the lid.
- 4. Connect the power supply and press the power button to turn on the tank.
- 5. Set the temperature to 80°C (176°F). Use the -5 and +5 buttons to lower or increase the temperature.
- 6. Set an alarm for 48 hours.



NOTE: Do not use the timer on the tank. This is intended for the ultrasonic operation used with the Caustic Soda method and will only run for 180 minutes.

7. After 48 hours, remove the model from the tank using the included plastic tongs and immediately run cold water over it for 1 to 2 minutes.



NOTE: Ensure the Ultrasonic Support Removal tank has been turned off.

8. After the model has been thoroughly washed, the PLA support material should easily crumble away.



NOTE: A blunt knife can be used to scrape the support away from the model. Additional rinsing may help flush remaining support material fragments from the model.

Caustic Soda Method



WARNING: CAUSTIC SODA CAN BURN SKIN AND EYES, IF HANDLED IMPROPERLY. NEVER HANDLE CAUSTIC SODA WITHOUT USING THE FOLLOWING PERSONAL PROTECTIVE EQUIPMENT (PPE): GLOVES, GOGGLES AND TONGS. IF CAUSTIC SODA TOUCHES THE SKIN, WASH IT AWAY IMMEDIATELY. IF CAUSTIC SODA TOUCHES THE EYES, IMMEDIATELY USE AN EYEWASH TREATMENT.



CAUTION: Never operate the unit without water in the cleaning tank. Damage may occur.



CAUTION: Never use boiling water. Damage may occur.



CAUTION: The unit must be positioned on a flat, stable work surface. Do not tip over or move the tank during its operation. Electrical equipment can become damaged when exposed to water and other fluids.

1. Fill the tank with 0.75 liters (0.79 quarts) of cold water.



WARNING: DO NOT ENGAGE THE ULTRASONIC FEATURE WHILE STIRRING IN THE CAUSTIC SODA. THIS WILL CAUSE THE SOLUTION TO VAPORIZE.



WARNING: ENSURE THE AREA IS WELL VENTILATED AND DO NOT DIRECTLY INHALE THE VAPOR FROM THE TANK.

- 2. Using scales and a measuring bowl, measure out 200 grams of caustic soda.
- 3. Pour the caustic soda into the tank in approximately 40-gram increments, stirring thoroughly after each addition.



NOTE: Stirring is essential to ensure the caustic soda granules do not collect at the bottom of the tank.

- 4. Immediately clean the measuring bowl and scales to ensure removal of all caustic soda.
- 5. Using plastic tongs and all the recommended personal protection equipment, gently lower the model into the caustic soda solution.



- 6. Close the lid.
- 7. Connect the power supply and press the power button to turn on the tank.
- 8. For best results, set the temperature to 60°C. Use the -5 and +5 buttons to lower or increase the temperature.



WARNING: DO NOT SET THE TEMPERATURE ABOVE 60°C AS THE REACTION BETWEEN THE CAUSTIC SODA AND THE WATER IS EXOTHERMIC, AND WILL CONTINUE TO ELEVATE THE TEMPERATURE. ACTUAL TEMPERATURE SHOULD NEVER EXCEED 80°C.

9. Once the tank has reached 60°C, use the -5 and +5 buttons to set the timer for 180 minutes.



NOTE: The ultrasonic process will begin as soon as you have set the time.

10. After 180 minutes, remove your model from the tank using plastic tongs and run it under cold water for 1-2 minutes.



CAUTION: Continue wearing the recommended personal protection equipment when handling the model until the process has been completed.



NOTE: All support material should have dissolved. Any remaining supports can be crumbled or scraped away with a blunt knife or rinsed off in the sink.

11. Empty the caustic solution from the Ultrasonic Support Removal Tank.



NOTE: It is safe to pour it in the sink as caustic soda can be used as a drain cleaner.

- 12. Rinse the tank and refill it with 0.75 liters of water.
- 13. Using plastic tongs, place the model back into the tank.
- 14. Once all of the caustic soda has been cleaned from the area, you may remove your personal protection equipment.
- 15. Repeat the ultrasonic process with clean water for 30 minutes at 60°C to remove any caustic soda residue that may remain on the model.
- 16. Once the ultrasonic process has completed the second time, use plastic tongs to remove the model from the ultrasonic tank.
- 17. Rinse it under cold water for 1 to 2 minutes.



CubePro software is an easy-to-use tool that simplifies the printing process. The software is available by logging in to your **www.cubify. com** account. Downloads are available for Windows and Mac operating systems.

INSTALLING WINDOWS SOFTWARE

1. Go to www.cubify.com and log in with your username and password.

- Navigate to www.cubify.com/en/CubePro/Activate. Select DOWNLOAD SOFTWARE and then select Windows.
- 3. Select **Run** to run the installer file.

4. Read through the End-User License Agreement. If you accept the terms of the agreement, select the acceptance checkbox and select Next.

NOTE: The software will begin to install.





NOTE: The software installation is complete.

CubePro Setup	
CubePro	
Setup Successful	
	Close

INSTALLING MAC SOFTWARE

1. Go to www.cubify.com and log in with your username and password.

- Navigate to www.cubify.com/en/CubePro/Activate. Select DOWNLOAD SOFTWARE and then select Mac.
- 3. Select the Downloads icon on the Dock and select the CubePro .dmg file.
- 4. Drag the CubePro file into the Applications folder.





CUBEPRO SOFTWARE OVERVIEW

CubePro software enables the user to import .stl creation files, specify the material type and color, and then orient, scale, size and rotate the models. Before the printer can print a file, the software must slice it into layers during the build process. This process converts a .stl file to a .cubepro file which is the file type the printer can print. Once a .cubepro file has been generated, this print file can no longer be edited although the original .stl file can be used again to create another .cubepro file.

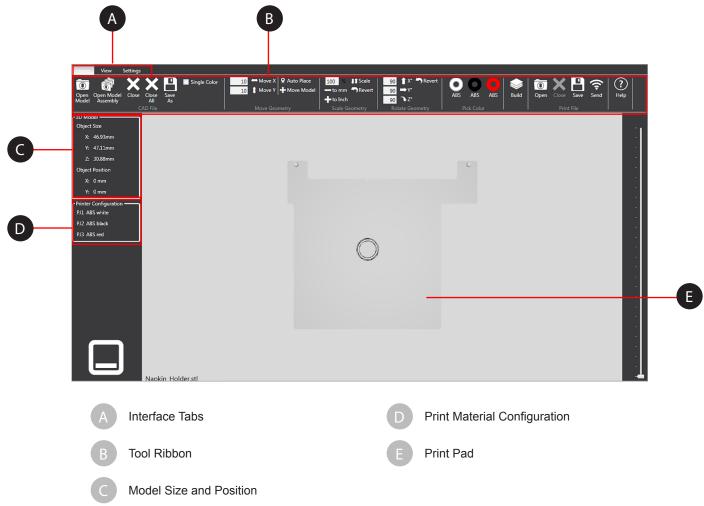
STL Files: Files that can be imported and edited prior to building a .cubepro file.

CUBEPRO Files: Files that have been prepared, sliced into layers, and are ready to print.

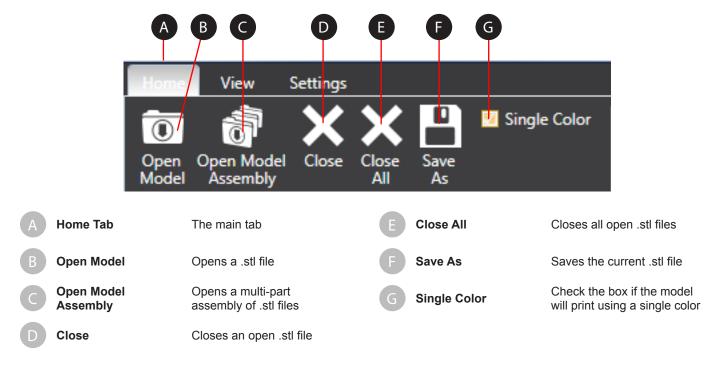


NOTE: The CubePro software interface for Mac may differ in color from the Windows version but the functionality will be the same.

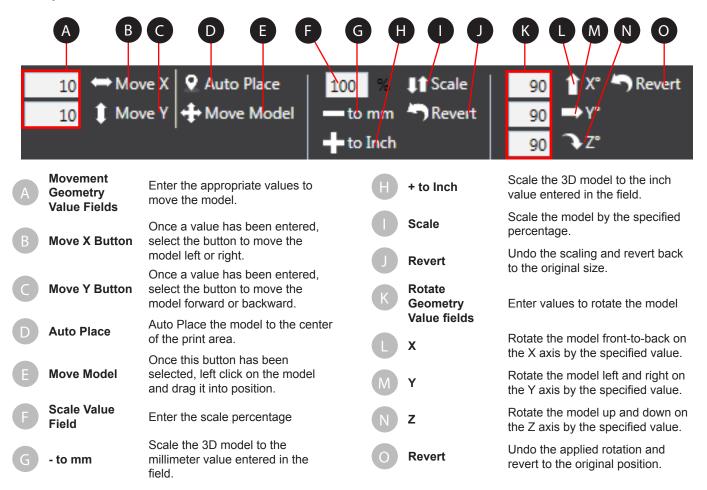
HOME TAB



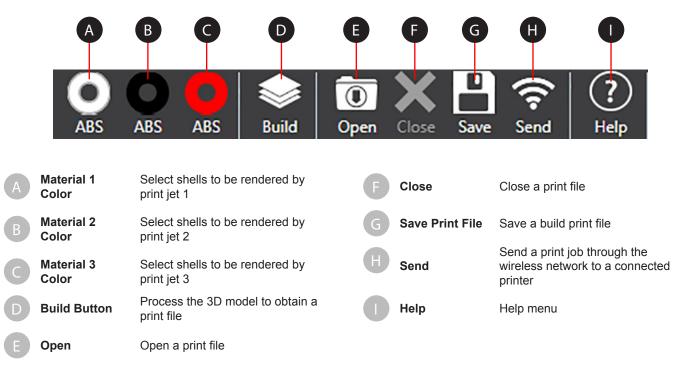
CAD File Functions



Geometry Functions

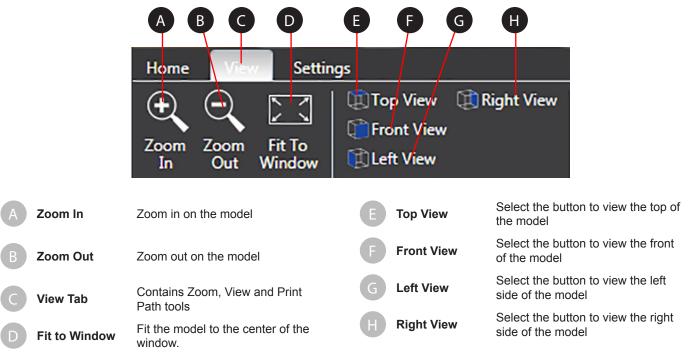


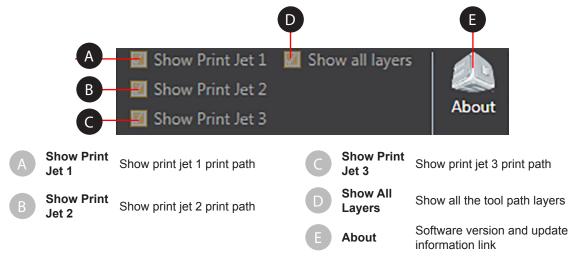
Color, Build, Print File and Help



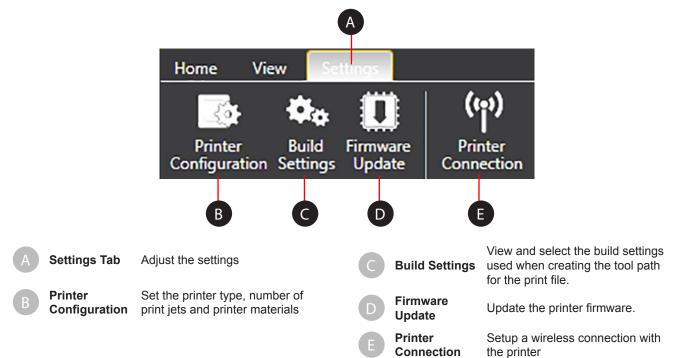
VIEW TAB

Zoom and View



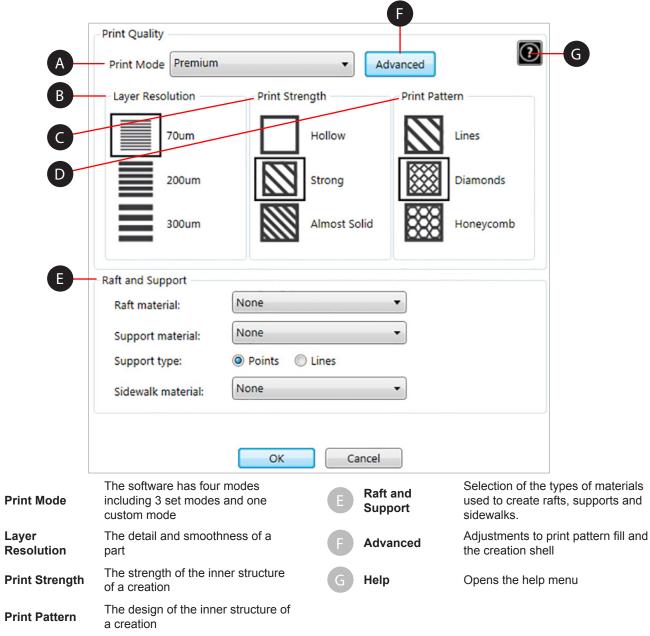


SETTINGS TAB



Printer Configuration

A	Printer Type:	CubePro			•	
B	Print Jets:	2 •				
C—	Print Jet 1 Material:	ABS industria	al gray	1	•	
D	Print Jet 2 Material:	ABS neon or	ange		•	
E—	Print Jet 3 Material:				▼	
		Help		OK	Cancel	
A Printer Typ	e Select your printer type		С	Print Jet 1 Material	Select the type and material installed in	
B Print Jets	Set the number of print j	jets in your	D	Print Jet 2 Material	Select the type and material installed in	
			E	Print Jet 3 Material	Select the type and material installed in	



Descriptions

Print Mode			
	Standard	•	Layer Resolution: 200um
		•	Print Strength: Strong
		•	Print Pattern: Diamonds
Premium		•	Layer Resolution: 70um
		•	Print Strength: Strong
		•	Print Pattern: Diamonds
	Draft		Layer Resolution: 300um
		•	Print Strength: Strong
		•	Print Pattern: Lines
	Custom	Cu	stom allows the user to customize their print settings
Print Resolution			
	0.070	•	Great mode for parts requiring smooth surfaces
		•	Layer lines are not very visible in these parts
		•	Good mode for artistic parts with a smooth flow
		•	Not the best mode for fine detail
	0.200	•	Best mode for general printing and most compatible mode for a wide range of geometries
		•	Fine detail preservation for things like steeples, spires, sharp points, or thin walls
	0.300	•	A fast mode with thicker layers
		•	Good for large parts with minimal detail
Print Strength	_		
	Hollow	•	Fastest mode to produce a part
		•	Hollow has fewer outer surfaces and larger print pattern spacing
	-	•	Best for parts that will not be stressed
	Strong	•	Medium amount of outer surfaces and smaller print pattern spacing
		•	Best for parts that will have minimal physical abuse
	Almost Solid	•	The most surfaces and the tightest print pattern spacing
		•	The most robust part
		•	Best for parts that will be stressed
Print Pattern	Lines		Eastest wint fill wettern
	Lines	•	Fastest print fill pattern
	Diamarata	•	Minimal cross bracing
	Diamonds	•	Strong print pattern with 2-direction cross bracing
	Honeycomb	•	Strong print pattern with 3-direction cross bracing

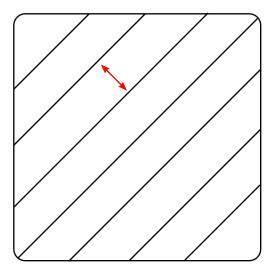
Advanced Build Settings

The Advanced Build Settings utility allows you to customize the layer thickness of the Print Pattern Fill, Shell Options and Sidewalk Options as well as enabling or disabling Support Borders or Draw Fine Features.

Print Pattern Fill		
Fill Spacing (mm)		8
Shell Options	_	
Top Surface Layers		- 7
Bottom Surface Layers		5
Outer Walls		1
Support Borders	Draw Fine Features	
Disable support borders for easier cleaning of holes and cavities.	Enable for best fine detail on parts.	
Sidewalk Options		
Sidewalk Distance		8
Sidewalk Layers		2
Sidewalk Offset		0.25
Sidewalk Perforation		
Restore Defaults	ОК	Cancel

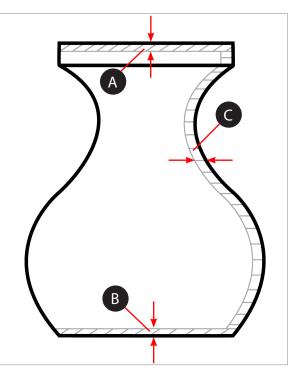
Print Pattern Fill

Fill Spacing is the amount of space between interior supports. Lower values increase the interior strength of the creation.



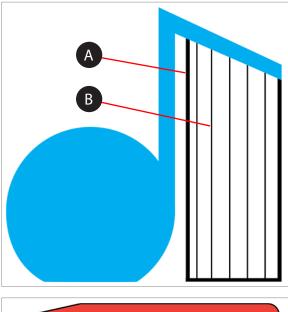
Shell Options

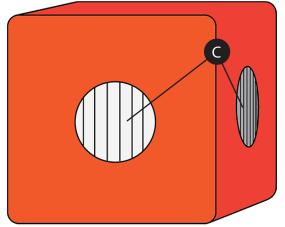
A Top Surface Layers	Increase the value for a thicker top surface layer.
B Bottom Surface Layers	Increase the value for a thicker bottom surface layer.
C Outer Walls	Increase the value for increased strength of the outer walls.



Support Borders

Support borders (A) reinforce supports (B) for overhanging parts and should not be used for holes and cavities (C).



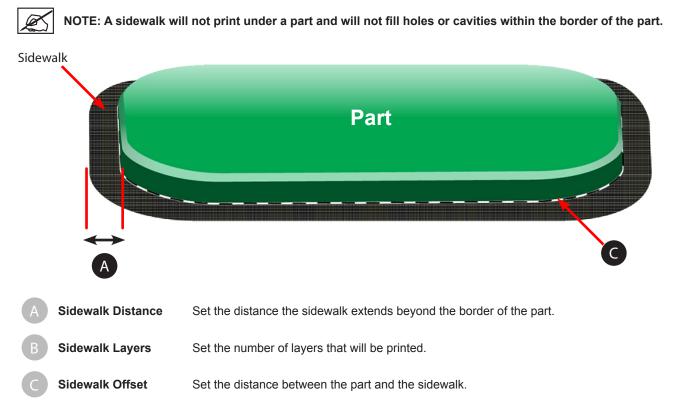


Draw Fine Features

Select enable for small parts with fine features. For larger parts needing more accuracy, this feature should not be enabled.

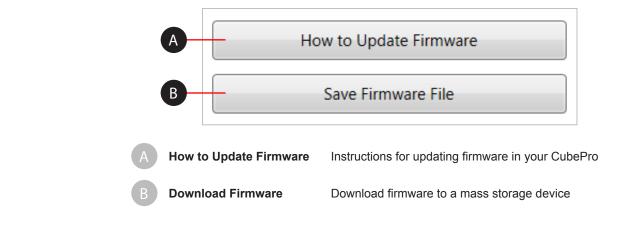
Sidewalk Options

A sidewalk is a mesh boundary that prints around the outside diameter of the part. Its main purpose is to reduce the tendency of warping especially when printing flat parts with ABS material. They are not recommended for parts that have fine details. Sidewalks are designed to easily break away from the part once it has been removed from the print pad.

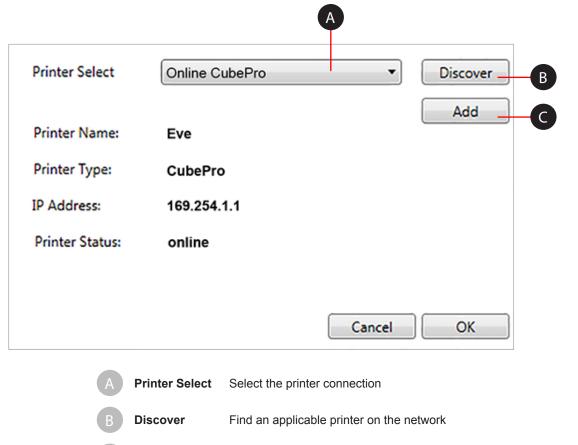


Sidewalk Perforation Enabling this option will create a perforated intersecting line at the border of the part for easier removal.

Firmware Update



Printer Connection



Add Add a printer using the printer's IP address

PREPARING AND PRINTING A CREATION



WARNING: THE PRINT JETS BECOME EXTREMELY HOT DURING SETUP AND OPERATION. DO NOT TOUCH THE PRINT JETS.



CAUTION: Do not change the material cartridge color or material type during printing. Doing so may damage the printer.

The CubePro software client includes useful tools to place a creation in the optimum position for printing. The model can be moved or rotated using the mouse.

Pan/Zoom:	Rotate the mouse wheel in either direction
Rotate the Print Pad:	Left-click and drag the mouse to change the view of the model
Move the Print Pad:	Right-click and drag the mouse to move the print pad.

1. Select Open Model.



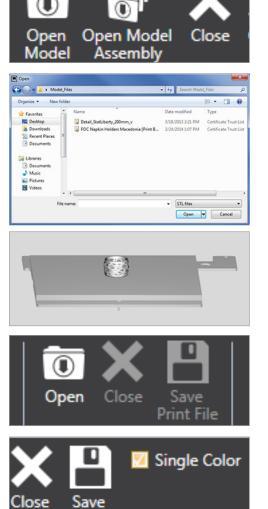
NOTE: Select Open Model Assembly if there are multiple parts in the model.

2. Browse to the creation file and select Open.



NOTE: The creation or assembly will appear on the print pad.

NOTE: You can open multiple creations on the same print pad.



View

Settings



NOTE: To open .cubepro files, select Open from the Print File menu, browse to the creation file and select Open.

3. If your creation requires a single color, select the **Single Color** checkbox from the **Home** tab.

All

As

4. Move the model into the preferred position on the print pad.



NOTE: You can specify the distance you want to move the model by inputing values in the Move X or Move Y fields and then selecting Move X or Move Y.



NOTE: Auto Place allows the software to place the model in an optimum position.

NOTE: Selecting Move Model allows you to click and drag the model around the print pad.

- 5. If necessary, scale and rotate the model by entering the values and selecting the corresponding buttons.
- 6. Select the color you wish to use and then select the part.



NOTE: If working with an assembly, select a color and then the part you wish to change.

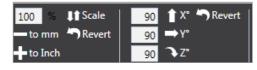


9.

NOTE: If you need to replace a cartridge for a different color or material type, refer to the section Replacing A Material Cartridge. Then, verify the material type and color by reviewing the Printer Configuration settings under the Settings tab in the software.

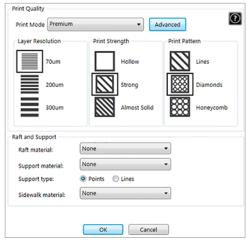
- 7. Select the color again to deselect it.
- 8. Select Build.













NOTE: Refer to the section called Build Settings under the View Tab for more information.

Enter the appropriate build settings and select Build.

 Browse to the location where the file will be saved and enter a file name. Select CubePro Build Files as Save As Type. Select Save.

Build Statistics				
	Print Jet 1	Print Jet 2	Print Jet 3	Total
Length				
	Esti	mated build	time (h:m)	

Build complete					
Print Jet 1	Print Jet 2	Print Jet 3	Total		
15345.34	0	0	15345.34		
Estir	mated build	time (h:m)	5:51		
			OK		
	15345.34	Print Jet 1 Print Jet 2 15345.34 0	Print Jet 1 Print Jet 2 Print Jet 3		



NOTE: Once the build is complete, the estimated print time will appear. Select OK to close the window.

NOTE: The build file may take a few minutes to create. During this time, the file is being converted from a .stl file to a .cubepro file.



NOTE: Once the file has been built, it must be sent to the printer. There are two ways to send the file:

- Wireless
- USB Mass Storage Device



NOTE: Larger files will take longer to send to the printer using a wireless connection. Transferring larger files with a USB mass storage device is strongly recommended.

11. To save to a USB mass storage device, select **Save**. Browse to the connected mass storage device and select **Save**. If sending wirelessly, go to step 13.



NOTE: The file must be stored in the root directory of the USB mass storage device.

- 12. Insert the USB mass storage device into the printer's USB inlet port. Proceed to step 14.
- 13. To send the file to the printer using the wireless utility, select Send.



Transfering File	
Transieting rite	
	Cancel Transfer
	\$
PRINT	SETUP

14. Select **PRINT** on the printer touchscreen display.



NOTE: Refer to the section titled Printing Your Creation for more information.



APPLYING CUBE GLUE

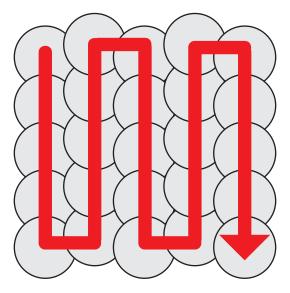
Cube Glue contains water-soluble glue that adheres the part to the print pad. It is important that glue is applied to the print pad before starting any print to ensure that the creation does not move during the printing process.

The glue contains a foam applicator under the cap. It is recommended that the bottle is turned upside-down with the cap on to allow the glue to settle into the applicator before applying.

For best results, apply two thin layers of glue to the print pad using slow circular motions when prompted by the touchscreen display. Apply the glue in a pattern that is slightly larger than the footprint of the creation you are printing.

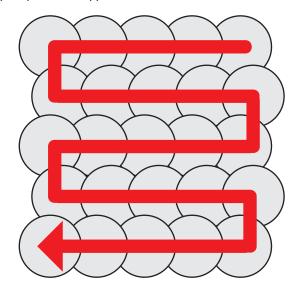
Layer 1

Apply a thin layer of glue to the print pad:



Layer 2

Apply a second thin layer of glue to the print pad in the opposite direction:





NOTE: For best results, allow the glue to dry before printing.

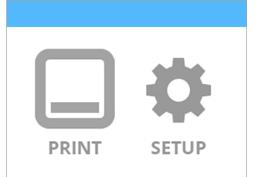
REPLACING A MATERIAL CARTRIDGE

The CubePro can utilize up to three installed cartridges depending on your printer model. The creation you wish to print may require a different color or material, or there may not be enough material left in the cartridge to complete your next print. Refer to the following steps to replace material cartridges.



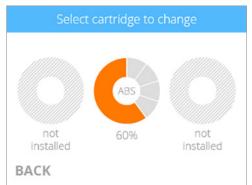
NOTE: When replacing the right side cartridge in a printer with 3 cartridges installed, the center cartridge is hinged to allow the cartridge to rotate to its left side rather than removing it completely. This provides enough access to replace the right side cartridge.

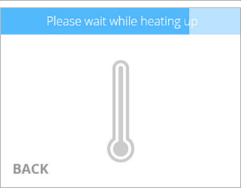
1. Select **SETUP** from the home screen.











2. Select CHANGE CARTRIDGE from the Materials screen.



NOTE: Selecting Cartridge Status will show the estimated amount of material remaining in the installed cartridges. It also indicates the color and type of material being used.

3. From the **Select Cartridge to Change** screen, select the cartridge you wish to replace.



NOTE: Before removing the cartridge, the appropriate print jet must heat up to its target temperature. Molten plastic may extrude into the jet wiper.



NOTE: Under the current temperature reading, the display will indicate when the printer is priming. Once it has been primed, another message will appear that indicates that the motor that feeds the material into the print jet is reversing to make it easier to remove the material. 4. Reach around the material cartridge, grasp the exposed material coming from the cartridge and gently pull it out of the print jet. Select the **checkmark** to continue.

NOTE: For printers that have three cartridge bays, the second cartridge bay is equipped with hinges so the cartridge can rotate counter-clockwise. This provides easier access to the third

 Grasp the cartridge handle and pull the cartridge up and out from its mount. Pull out the remaining material from the feed tube. Select the checkmark to continue.

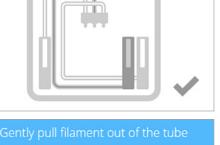
 Install the thumbscrew into the cartridge. Measure 1 inch of material coming from the cartridge and cut off the remaining material. Select the checkmark to continue.

<u>/</u>

cartridge.

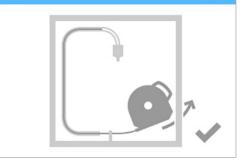
CAUTION: Do not attempt to push the excess material back into the cartridge. Doing so will cause the cartridge to bind making it unusable.

7. Remove the thumbscrew securing the material to the new material cartridge. Select the **checkmark** to continue.





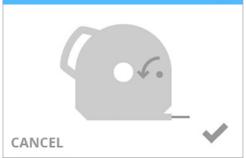




Put thumbscrew in cartridge



Remove thumbscrew from new cartridge



Gently pull filament out of the tube

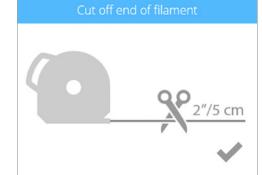
8. Pull out 12"/30 cm of material from the cartridge. Select the **checkmark** to continue.

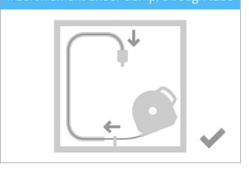
9. Cut off 2"/5 cm of material from the end. Select the **checkmark** to continue.

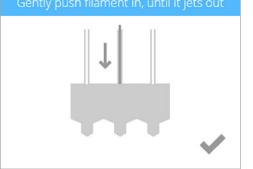
NOTE: Ensure the material is not bent or creased. If the material is not straight, pull out the damaged material from the cartridge. Cut off and dispose the portion that is damaged.

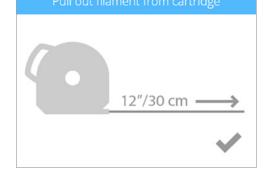
10. Insert the material <u>under the clamp roller</u> and into the material tube. Select the **checkmark** to continue.

- 11. Gently push the material into the print jet until molten plastic extrudes into the jet wiper. Select the **checkmark** to continue.
 - NOTE: When the material reaches far enough into the print jet area, a feed motor will assist with feeding the material into the print jet.





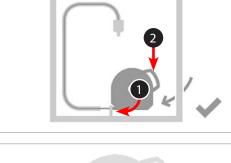




12. (1) Push the front of the cartridge into place and then (2) push the cartridge handle downward until the cartridge is fully seated in its mount. Select the **checkmark** to continue.

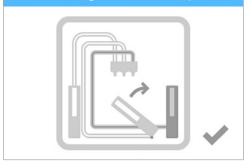
NOTE: Ensure the front of the cartridge (A) where the material exits is seated under the clamp roller and between the vertical alignment pins in the cartridge bay.

Push cartridge in place





Rotate cartridge back to vertical position



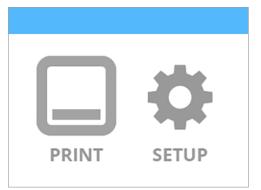
CAUTION: If replacing the third cartridge, be sure to rotate the second bay cartridge to its vertical position before selecting the checkmark.



SETTING UP AN AD HOC NETWORK

An ad hoc network is a temporary yet direct connection between a computer or device and the printer. It does not connect through a router or base station and the data transfer rates are slower than the transfer rate of standard wireless networks. The computer or device you wish to connect ad hoc to the printer must have an ad hoc adapter installed. An ad hoc network is deleted when the user has disconnected from it or is out of range of other devices on the network unless it has been made a permanent network.

1. Select **SETUP** from the home screen.

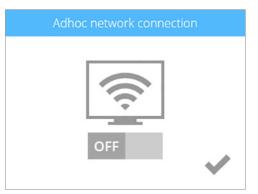


- 2. Using either the left or right the navigation arrows, navigate to the **Network** screen.
- 3. Select WIFI.



4. Select ADHOC from the Select WIFI Connection Type screen.





5. Select the **ON/OFF** bar to turn on the ad hoc network connection.

6. Confirm your choice by selecting the **checkmark**.

Adhoc network connection





NOTE: The Select WIFI Connection Type screen will display the ad hoc status as well as the IP address of the printer.

- 7. In Windows®, select Start > Control Panel.
- 8. Type **network** in the search box.
- 9. Select Network and Sharing Center.
- 10. Select Set up a new connection or network.
- 11. Select Set up a wireless ad hoc (computer-to-computer) network.
- 12. Select Next.
- 13. Follow the steps in the wizard.



RESTORING ROUGHNESS TO THE PRINT PAD

If the print pad is too smooth, the print material and glue may not adhere properly. Using the sandpaper included in the toolkit, wipe the print pad diagonally across the print pad from corner to corner in both directions. Rinse and thoroughly dry the print pad before installing it into the printer.

CLEANING THE JET WIPER

In addition to being a scraper for the print jets, the jet wiper assembly is also a refuse bin, collecting print material that has been primed from the print jets. As the jet wiper fills, it will need to be emptied regularly.

1. With the print pad lowered, lift up the jet wiper off the thumbscrew rest.



- Pull the jet wiper up and out to separate the mounting posts from the keyhole slots.

- 3. Remove the jet wiper assembly from the printer.
- Remove the waste material from the jet wiper and then reinstall it in the CubePro. Refer to the section titled Printer Setup for more information about installing the jet wiper. Recycling information can be found in the section titled Cubify Sustainability Program.

GENERAL CLEANING

Waste material from the printing process can accumulate inside the printer. Using a slightly damp, lint-free cloth, wipe the interior of the CubePro including the print plate, the print pad, cartridge bays and anywhere else you might find pieces of plastic waste material.

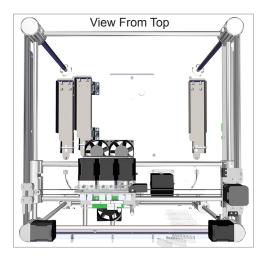


RISK OF SHOCK: DO NOT WIPE DOWN ANY ELECTRICAL COMPONENTS. ALWAYS KEEP AWAY FROM ALL AREAS WHERE ELECTRONIC COMPONENTS ARE INSTALLED.

ADJUSTING THE JET WIPER ASSEMBLY

The jet wiper is designed to scrape the print jet tip, removing any waste material remaining after extrusion.

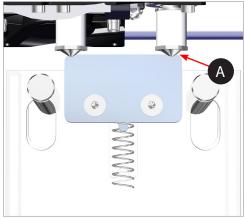
- 1. Remove the lid from the top of the printer.
- 2. Ensure the print pad is at its lowest position.
- 3. Power off the printer and disconnect it from utility power.
- 4. Holding the extruder assembly, gently position it over the jet wiper assembly.



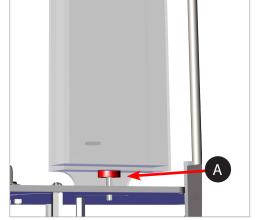
5. Verify the wiper blade meets the tapered portion (A) of the print jet tip. If it does, the jet wiper is properly adjusted. Proceed to step 8.

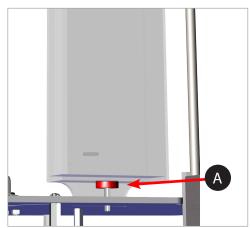


NOTE: If the wiper tip is too high, proceed to the next step. If the wiper tip is too low, proceed to step 7.



 If the wiper blade is too high, remove the jet wiper assembly and turn the adjustment thumbscrew (A) clockwise. Reinstall the jet wiper and return to step 5.





 If the wiper tip is too low, remove the jet wiper assembly and turn the adjustment thumbscrew (A) counter-clockwise. Reinstall the jet wiper and return to step 5.

8. Once satisfied with the adjustment, you may connect your printer to utility power and power on the printer.

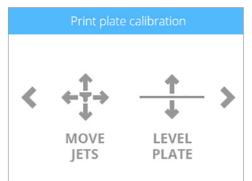
CALIBRATING THE PRINT PAD

The print pad is leveled at the factory and this adjustment may not be necessary for your printer. If your creations are not printing as expected, check the level of the print pad.

1. Navigate to the **Print Plate Calibration** screen and select **LEVEL PLATE**. Select the **checkmark** to continue.



NOTE: The print pad will raise and the print jets will move to the left rear of the print pad.

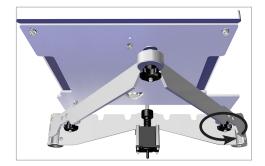


2. Select the upper right corner of the triangle on the touchscreen display.



NOTE: The print jets will move to the right rear of the print pad.

- A B C



 Using the designated page from the Setup/Repack instructions, slide the paper between the print jets and the print pad.



NOTE: If there is a slight resistance, proceed to step 5.

NOTE: The red line (C) illustrates the gap between the print jets (A) and the print pad (B).

4. If the paper slides easily between the print jets and print pad, rotate the adjustment knob counter-clockwise (from the bottom) until there is a slight resistance.



CAUTION: If the print pad is set too high, damage to the print pad or print jets may occur.



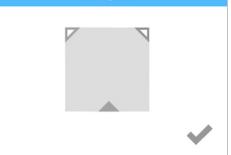
NOTE: If the paper can not be inserted between the print jets and the print pad, turn the adjustment knob clockwise (from the bottom) until there is a slight resistance on the paper.

- 5. Select the lower middle triangle.
- 6. Once the print jets have moved to the front center of the print pad, slide the paper between the print jets and the print pad.



NOTE: If there is a slight resistance, proceed to step 8.

_evel plate



7. If there is no resistance on the paper when sliding it between the print jets and the print pad, rotate the adjustment knob counter-clockwise (from the bottom) until there is a slight resistance.



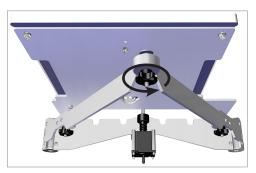
CAUTION: If the print pad is set too high, damage to the print pad or print jets may occur.

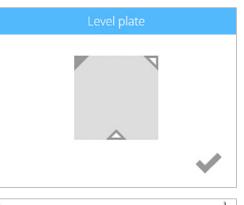
NOTE: If the paper can not be inserted between the print jets and the print pad, turn the adjustment knob clockwise (from the bottom) until there is a slight resistance on the paper.

- 8. Select the upper left corner of the triangle.
- 9. Once the print jets have moved to the left rear of the print pad, slide the paper between the print jets and the print pad.



NOTE: If there is a slight resistance, proceed to step 11.





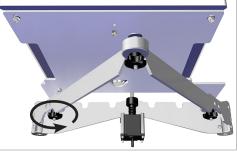
10. If there is no resistance on the paper when sliding it between the print jets and the print pad, rotate the adjustment knob counter-clockwise (from the bottom) until there is a slight resistance.

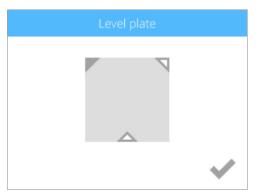


CAUTION: If the print pad is set too high, damage to the print pad or print jets may occur.

NOTE: If the paper can not be inserted between the print jets and the print pad, turn the adjustment knob clockwise (from the bottom) until there is a slight resistance on the paper.

11. Once completed, select the checkmark to exit the utility.





CALIBRATING THE Z-GAP AND PRINT PAD LEVEL

Leveling the print pad is very important to ensure quality prints. Checking the Z-Gap and Print Pad Level becomes necessary after replacing a print jet, an extruder assembly, or the print pad.

The Level Gap calibration file is always printed with print jet 1. There are two independent files for checking Level Gap: one for ABS printing and one for PLA printing.

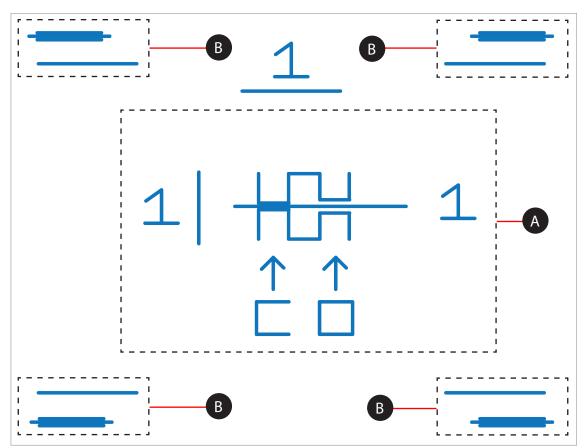


NOTE: Ensure the file used matches the material type installed in cartridge bay 1. (Ex. If cartridge bay 1 has an ABS material cartridge, print the ABS Level Gap file.)

These files are available at www.cubify.com.

Level Gap Calibration Print Overview

The following diagram illustrates a leveled print pad with a proper Z-Gap:



Z-Gap - The Z-Gap is the distance between the print pad and the print jet nozzles.

Print Pad Level - The Print Pad Level is a measurement to determine if the print pad is level with the print jet nozzles.

Printing the Level Gap Calibration File



NOTE: Ensure the print pad is completely clean from glue and printed parts before beginning this procedure.

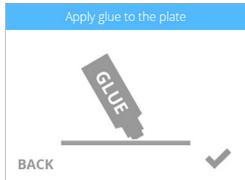
- 1. Navigate to http://cubify.com/en/CubePro/Activate. Select CALIBRATION FILES and extract them to your computer's hard drive.
- 2. Navigate to the file location and copy the appropriate file to your USB mass storage device.
- 3. Insert the USB mass storage device into the USB host port on the printer.
- 4. Select PRINT.



5. Using the arrows, navigate to the Level Gap Calibration file and select **PRINT**.

NOTE: There are two Level Gap Calibration files as well as four Nozzle Offset Calibration files. The two Level Gap Calibration files are print material specific. Select the file based on the material cartridge type installed in cartridge bay 1.





6. Apply two thin layers of Cube Glue to the print pad in an area of 50 mm x 50 mm. Select the **checkmark** to continue.



NOTE: For more information, refer to the section titled Applying Cube Glue.



NOTE: It may take several minutes to print the file.

7. When finished, remove the print pad and verify the Level Gap.



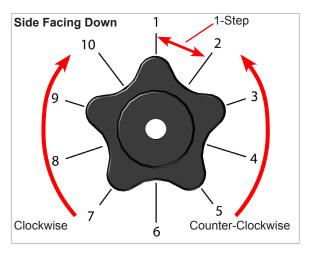
NOTE: Refer to the sections titled Reading The Z-Gap Calibration Print and Reading The Print Pad Level Calibration Print.

NOTE: If any adjustments are needed, perform this procedure again after making the adjustments. Make sure all glue and plastic residues have been removed prior to performing this procedure again.

Adjustment Knob Measurement

Adjusting the level plate adjustment knob should initially be performed in 1-step increments. If a finer adjustment becomes necessary, adjust the knobs in 1/2 step increments.

In the following illustration, the measurement between 1 and 2 is considered 1-step.



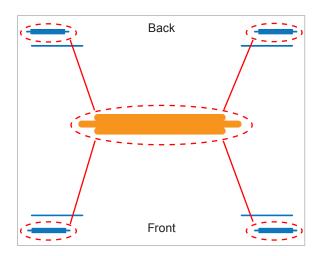
Reading the Print Pad Level Calibration Print

Correct Print Pad Level

The Print Pad Level is correct when each of the four (4) corner calibration points have no gaps between the Print Pad Level calibration lines and the baselines.



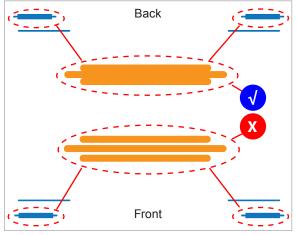
NOTE: Before making any adjustments to the Print Pad Level, the Z-Gap must be correct.



Incorrect Print Pad Level

In the illustration, there is an incorrect gap between the Print Pad Level calibration lines and the baselines on the front of the print pad and no gap between the Print Pad Level calibration lines and the baselines on the back of the print pad. The front of the print pad needs to be raised.

To correct the Print Pad Level in this instance, turn the front print pad adjuster knob counter-clockwise (left) 1-step. Reprint the file and verify that all four corner calibration points are correct.



Acceptable Print Pattern

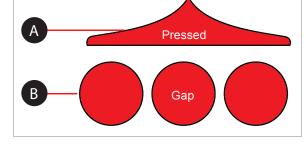
The Print Pad Level calibration file should print with no gap between the Print Pad Level calibration lines and the baselines. The illustration indicates an acceptable print pattern from a profile view.



Unacceptable Print Patterns

If the gap between the print pad and the print jet nozzles is too small, the Print Pad Level calibration lines will press in and scrape the baseline. If all four corner calibration points appear like the pressed profile illustration (A), turn the three (3) print pad adjuster knobs clockwise (right) 1-step to increase the gap. Reprint the Print Pad Level calibration print again.

If there is a gap between the Print Pad Level calibration lines and the baselines like the illustration (B), turn the three (3) print pad adjuster knobs counter-clockwise (left) 1-step to decrease the gap. Reprint the Level Gap calibration print.



NOTE: Once all four corner Print Pad Level calibration points are correct, verify the Z-Gap to ensure that it is still correct.

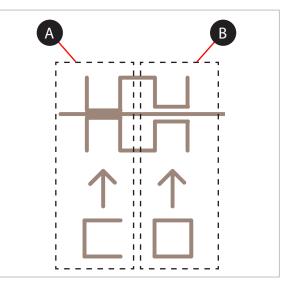
Reading The Z-Gap Calibration Print

Adjusting the Z-Gap

The Z-Gap should be within specifications before adjusting the Level Gap. If adjustments to the Z-Gap are necessary, perform the adjustments and then print the calibration file again to verify the correct Z-Gap. A correct Z-Gap is indicated when there is no gap in the Closed Z-Gap measurement and there is a gap in the Open Z-Gap measurement.

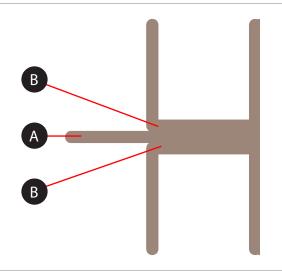


NOTE: The Closed Z-Gap (A) and the Open Z-Gap (B) are two different measurements but should be read together.



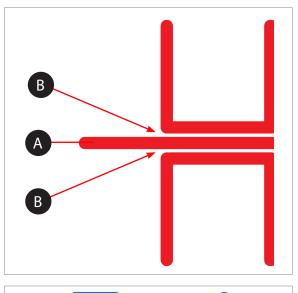
Correct Closed Z-Gap

Referring to the illustration, the Closed Z-Gap bars (B) should touch the baseline (A).



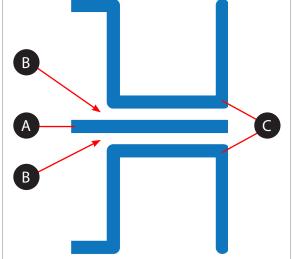
Incorrect Closed Z-Gap

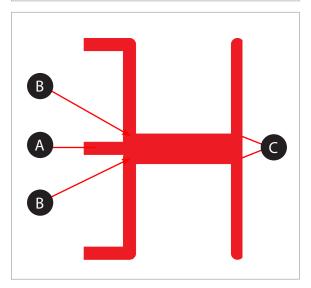
If there is a gap (B) between the Closed Z-Gap bars and the baseline (A), turn all three print pad adjustment knobs counter-clockwise (left) 1-step and then print the file again to verify the lines touch. If the lines do not touch on the second print, adjust the knobs again 1-step and reprint the file. Continue to do this until the lines meet.



Correct Open Z-Gap

If there is a gap (B) between the Open Z-Gap bars (C) and the baseline (A) and there is no gap between the Closed Z-Gap bars and the baseline, the Z-Gap is correct.





Incorrect Open Z-Gap

If there is no gap (B) between the Open Z-Gap bars (C) and the baseline (A), turn all three (3) print pad adjustment knobs clockwise (right) 1-step and print the file again to verify that the lines do not touch. If they touch on the second print, adjust all three (3) print pad adjustment knobs clockwise (right) 1-step and reprint the file. Continue this procedure until there is a gap.

CALIBRATING THE OFFSET JETS



WARNING: DO NOT USE THE OFFSET JETS MENU UNLESS YOU HAVE BEEN ADVISED TO DO SO BY CUBIFY SUPPORT. CHANGES TO THESE SETTINGS WILL AFFECT THE QUALITY OF MULTI-COLOR OR MULTI-MATERIAL PRINTS. CALIBRATION WAS PERFORMED BY THE FACTORY AND ANY CHANGES TO THESE SETTINGS MUST BE APPROVED AND GUIDED BY CUBIFY SUPPORT.

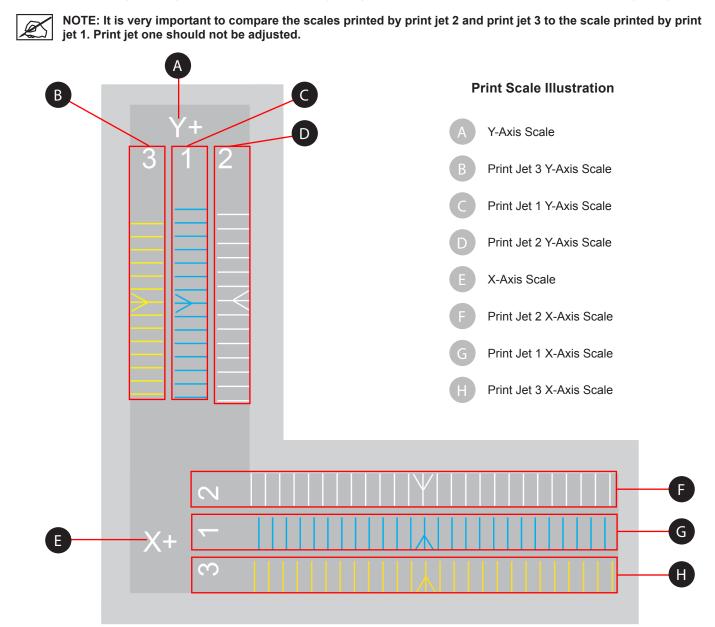
NOTE: Calibrating the Offset Jets is only applicable for printers with more than one (1) print jet installed.

Calibration files can be downloaded from http://cubify.com/en/CubePro/Activate. These files are printed like any other .cubepro file. There are four files available. The files are specific for the model printer (CubePro Duo or CubePro Trio) and for the material type (ABS or PLA) currently installed in the printer. All installed cartridges must be same material type (ABS or PLA) and each print jet will be used. Two Level Gap calibration files will also download with the Offset Jet Calibration files. These should be ignored during this procedure.

Calibration Overview

Depending on your printer model, you may have up to three (3) print jets installed. Calibrating the offset jets becomes necessary when multi-color or multi-material prints are not aligned properly. If the print jets are not positioned properly, supports may not print as intended and print geometries may be altered.

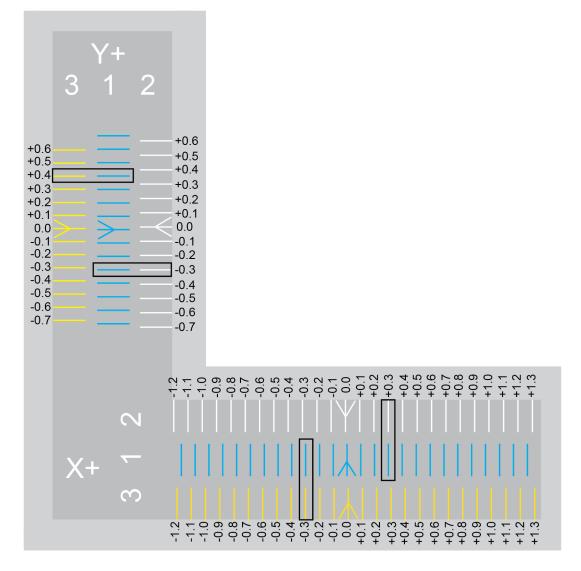
When it becomes necessary to calibrate the offset jets, each print jet will be tested for proper alignment. When printing the test file, a scale will be printed by all print jets and the scales printed by print jets 2 and 3 will be compared to the scale printed by print jet 1.



In the print scale illustration, the X+ scale (left-to-right) contains three (3) rows of printed lines. Each line represents a print jet. The prints are numbered 1, 2 and 3 for each of the three print jets. Print jet 1 always prints the middle scale so the scales of print jets 2 and 3 can be easily compared to it. Print jet 2 prints above print jet 1 and print jet 3 prints below print jet 1. For printers with only two (2) print jets, the scale below the print jet 1 scale will not be printed.

The lines on the calibration print represent an offset of 0.1 mm and should be measured from the printed arrows in the center of the scales.

Reading the Offset Jets Scale



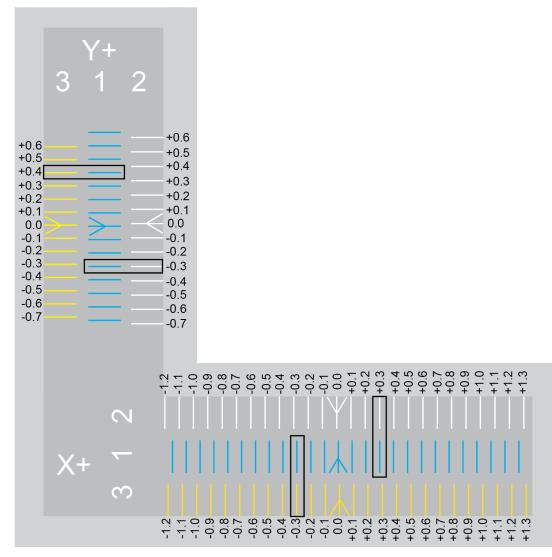
Note the white arrow printed from print jet 2 and compare it to the positioning of the blue arrow printed by print jet 1. Note that the white arrow is slightly left of the blue arrow meaning that print jet 2 is misaligned. Print jet 2 must be moved in a positive direction (right) to align with print jet 1.

Compare the printed lines of print jet 1 and 2 to the right of the arrows and find the printed lines that are properly aligned. In this illustration, the lines at +0.3 are aligned. This means that the offset must be corrected by increasing the offset by .3 mm.

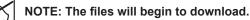
When comparing the arrow printed by print jet 3 to the arrow printed by print jet 1, notice it is positioned slightly to the right. This means it must be adjusted in a negative (left) direction. Compare the lines of print jet 1 and 3 to the left of the center arrows and find the printed lines that are properly aligned. In this illustration, the lines at -0.3 are aligned. This means that the offset must be corrected by decreasing the offset by .3 mm.

Offset Jets Calibration Procedure

The following procedure demonstrates calibrating print jets 1 and 2 on the X-axis. Calibrating the Y-axis is the same procedure. The illustration below will be used for demonstration purposes. Be sure to refer to the actual scale printed by your printer and adjust the settings accordingly.



- 1. Browse to http://cubify.com/en/CubePro/Activate.
- 2. Select CALIBRATION FILES.



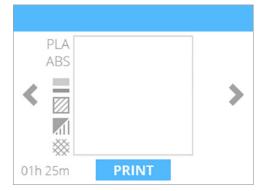
- 3. Extract the files to your computer's hard drive.
- 4. Navigate to the file location and copy the appropriate Nozzle Offset Calibration file to your USB mass storage device.



NOTE: The Nozzle Offset Calibration files are specific for the model printer (CubePro Duo or CubePro Trio) and for the material type (ABS or PLA) currently installed in the printer.

5. Insert the mass storage device into the CubePro USB inlet port and select **PRINT**.





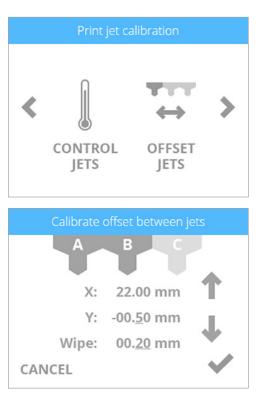
6. Navigate to the calibration file and select **PRINT**.



NOTE: The filename may differ from the illustration.

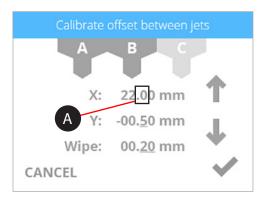
NOTE: The printer may require you to install additional cartridges or replace a cartridge. Follow the instructions on the screen and refer to the section titled Replacing A Material Cartridge.

- 7. Once the printer has finished printing, remove the print pad from the printer and inspect the scales. If adjustments are required, proceed to the next step. If the scales are aligned properly, no further action is required.
- 8. Navigate to the Print Jet Calibration screen and select OFFSET JETS.



9. When adjusting print jet 2, select **B**.

 Referring to the illustration at the beginning of this procedure, print jet 2 needs to be increased by .3 mm. Select the value until the first digit (A) to the right of the decimal point is highlighted.



11. Press the up arrow three times to increase the value to 22.30 mm.



NOTE: Pressing the up arrow increases (+) the value. Pressing the down arrow decreases (-) the value. Pressing the value repeatedly will scroll through the digits left-to-right.



NOTE: You can also select the Y-axis settings and adjust those settings the same way.



NOTE: If a value of 1 mm or larger are required, press the value until the first digit to the left of the decimal is highlighted and press the up arrow accordingly.

- 12. Once finished adjusting the settings, select the checkmark to continue.
- 13. Remove the original calibration print from the print pad. Reprint the calibration file and verify that the arrows align properly on the X-axis and Y-axis.

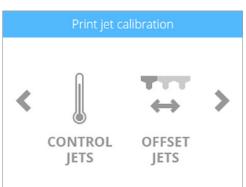
CALIBRATING THE WIPE FUNCTION

WARNING: DO NOT USE THE OFFSET JETS MENU UNLESS YOU HAVE BEEN ADVISED TO DO SO BY CUBIFY SUPPORT. CHANGES TO THESE SETTINGS WILL AFFECT PRINTER OUTPUT. CALIBRATION WAS PERFORMED BY THE FACTORY AND ANY CHANGES TO THESE SETTINGS MUST BE GUIDED BY CUBIFY SUPPORT.

As the printer extrudes print material through the print jets, print material may sometimes adhere to the print jet tips. The printer firmware moves the print jets over the jet wiper assembly blade to scrape excess print material from the print jets. If the setting for the Wipe function is not properly set, the print jets may not reach the jet wiper assembly blade and the hardened excess print material may be released into the next print.

The factory settings position the print jets about .25"/6.35 mm in front of the jet wiper assembly blade.

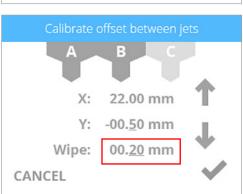
1. Browse to the Print Jet Calibration screen and select OFFSET JETS.



2. Press the **Wipe** value repeatedly to scroll through the digits. Press the up arrow to move the print jets forward and the down arrow to move the print jets backward.



NOTE: Increasing the value moves the print jets toward the front of the printer. Decreasing the value moves the print jets toward the back of the printer.



- 3. Select the checkmark to continue.
- 4. Print a small test file and verify the print jets move over the jet wiper assembly blade after extruding print material.

TESTING THE PRINT JETS AND EXTRUDERS

When material fails to come out of the print jets during a print, you may receive a warning message on the display. The CONTROL JETS function from the Print Jet Calibration menu is a utility that enables you to test the print jet heating elements and the extruder operation.

1. Navigate to the Print Jet Calibration screen and select CONTROL JETS.



3. Select the target temperature value twice to read 260°C.



NOTE: To increase or decrease the temperature value, press the up or down arrow.



NOTE: The typical printing temperature for ABS print material is 260°C. The typical printing temperature for PLA material is 220°C. For best results, leave the default target temperature at 260°C while extruding print material from the Control Jets test utility.



NOTE: The current temperature reading will appear above the target temperature value.

4. Once the temperature has reached 260°C, select the speed value.



NOTE: Pressing the speed value twice will place the value at 4.0 RPM. Press the up or down arrows to increase or decrease the extrusion speed.







5. Once you have finished, reduce the target speed to 0.0 RPM and the target temperature to 0.0°C. You can now select the next print jet and follow this procedure if necessary.



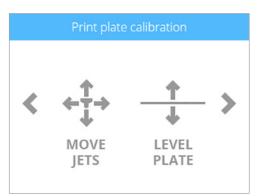
NOTE: Pressing the values twice for target temperature and speed should change the values to 0.0.

For further troubleshooting, contact Cubify Support at cubifysupport@cubify.com.

MOVING THE PRINT JETS

The Print Plate Calibration menu provides a way to manually move the print jets and the print pad. The MOVE JETS utility can be useful to test the X, Y and Z motors to ensure they are working properly.

1. To move the print jets or the print pad, select **MOVE JETS**.





NOTE: The X: up arrow moves the print jets to the right and the X: down arrow moves the print jets to the left.

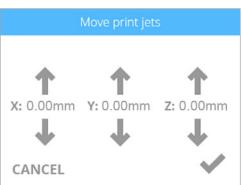


NOTE: The Y: up arrow moves the print jets to the back of the printer and the Y: down arrow moves the print jets to the front of the printer.



NOTE: The Z: up arrow raises the print pad and the Z: down arrow lowers the print pad.

2. Move the print jets or print pad in the desired direction and select the **checkmark** when finished.



UPDATING THE CUBEPRO FIRMWARE

The CubePro firmware can either be updated via wireless connection or by using a USB mass storage device. When using a USB mass storage device to update the firmware, log into your www.cubify.com account and download the latest firmware to your device.

Updating Firmware Using USB

1. Select **SETUP**.

2. Navigate to the Advanced screen and select FIRMWARE.

3. Select USB KEY.

4. Insert the USB mass storage device into the USB port and select the checkmark.







Insert USB key into printer



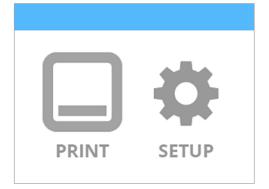
NOTE: The printer will search for new firmware.

5. Press and release the touchscreen display **ON/OFF button** and the display will restart.

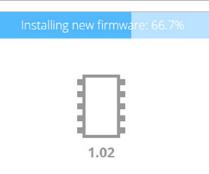
Updating Firmware Using WI-FI

To update the firmware using the wireless utility, the printer must be connected to a wireless network.

1. Select **SETUP**.











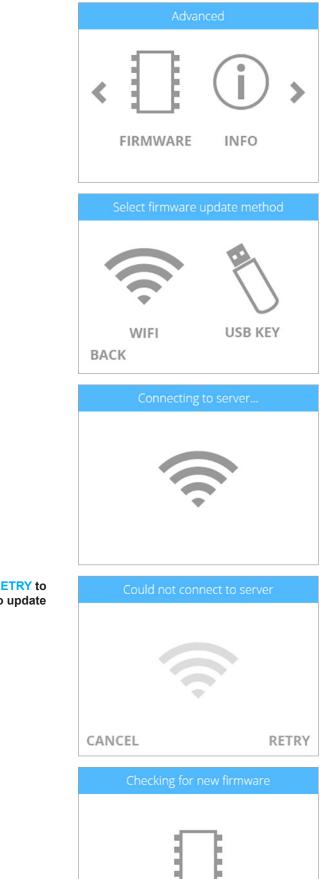
NOTE: Wait until the update has been completed.

WARNING: DO NOT POWER OFF OR DISCONNECT THE PRINTER FROM UTILITY POWER DURING THE UPDATE PROCESS.

Checking for new firmware

2. Navigate to the Advanced screen and select FIRMWARE.

3. Select WIFI.



K

NOTE: If the printer can not connect to the server, select **RETRY** to connect to the server. Select **CANCEL** if you do not want to update the firmware.

NOTE: The printer will attempt to connect to the server.

X

NOTE: The printer will check for a firmware update.



NOTE: The printer will begin downloading new firmware. The blue bar is also a progress indicator.



NOTE: The download could take a few minutes.

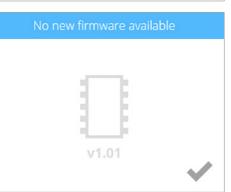
WARNING: DO NOT POWER OFF OR DISCONNECT THE PRINTER FROM UTILITY POWER DURING THE UPDATE PROCESS.

Downloading new firmware: 66.7%



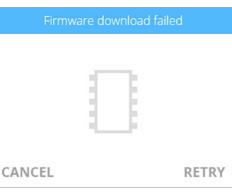


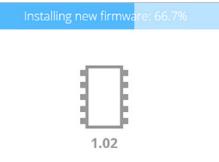
NOTE: If no new firmware is available, select the checkmark to continue.





NOTE: If the firmware download fails, select **RETRY** to start the download again. Select **CANCEL** if you do not want to update the firmware.









NOTE: The firmware will begin to install. The blue bar is also a progress indicator.



NOTE: This process could take a few minutes.

WARNING: DO NOT POWER OFF OR DISCONNECT THE PRINTER FROM UTILITY POWER DURING THE UPDATE PROCESS.

4. Press and release the touchscreen display ON/OFF button and the display will restart.

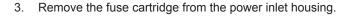
REPLACING FUSES

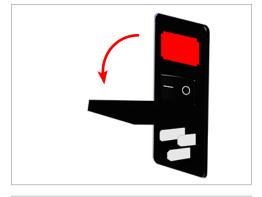
The printer has two (2) fuses that are designed to provide moderate circuit protection. If the fuses become defective, refer to the following procedure to replace the fuses.

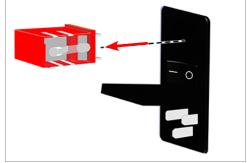


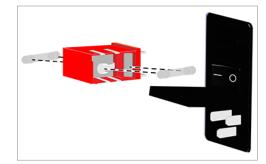
Caution: Double Pole/Neutral Fusing.

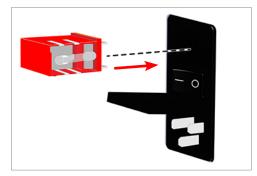
- 1. Power off the printer and disconnect the power cord from the printer.
- 2. Open the fuse door above the main power switch.











4. Remove the defective fuses and install new ones.

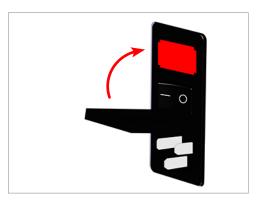


Caution: Ensure the replacement fuses are rated correctly.



NOTE: Fuse: 5x20mm T10A L 250V.

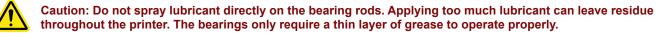
5. Insert the fuse cartridge into the power inlet housing.



7. Connect the printer power cord and power on the printer.

LUBRICATING THE BEARING RODS

After every 100 hours of operation, the bearing rods should be lubricated.



- 1. Power off and disconnect the printer from utility power.
- 2. Apply a small amount of bearing rod grease (Part Number: 403194-00) to a clean, lint-free cloth.
- 3. Using the cloth, wipe the six (6) bearing rods (1-6).



NOTE: Ensure each bearing rod has been fully treated with a thin layer of bearing rod grease.

- Back
- Manually move the print jet carriage (A) front-to-back and leftto-right.



NOTE: The print jet carriage should glide smoothly.

ERROR CODES

Material Flow Errors

Material flow errors that appear on the display contain two (2) digits. The first digit refers to the extruder number. (Ex. If your printer has two (2) extruders and you have code 13, the error refers to extruder 1.)

The second character refers to the error type. Refer to the following chart for descriptions of material flow error types:

Error Type	Description	Possible Cause
1	Material stopped	Tangled cartridge
		Extruder blockage
2	Idler stalled	Tangled cartridge
		Extruder blockage
3	Material not present	The end of the material has been pulled into the extruder

Temperature Errors

Temperature errors that appear on the display contain two (2) digits. The first digit refers to the extruder number. (Ex. If you printer has three (3) extruders and you have code 35, the error refers to extruder 3.)

The second digit refers to the error type. Refer to the following chart for descriptions of temperature error types:

Error Type	Description		Possible Cause
1	Thermistor circuit	•	Possible short circuit detected
2	Initial rate of change low	•	Contact support
3	High rate of temperature change detected	•	A sudden change in temperature was detected
4	Low rate of temperature change detected	•	The rate of temperature increase is below the expected rate of change
5	Set point deviation	•	The temperature is different from the target temperature

For more information, contact Cubify Support.

CONTACTING SUPPORT

Cubify Support is available at cubifysupport@cubify.com.

2 CUBIFY SUSTAINABILITY PROGRAM

By its very nature 3D printing is a sustainable technology empowering 3D Systems' printers to produce affordable products one layer at a time using only the necessary amount of material required for each part with near zero waste in an energy efficient process.

CubePro 3D printers use eco-friendly plastics that can be recycled, re-purposed or composted responsibly. 3D Systems invites all CubePro and Cubify consumers to partner in creating a cleaner world, one printed part at a time, by participating in the Cubify Sustainability Program.

- **Cartridge Recycling:** Send your empty CubePro cartridges to either our USA or Germany location. Be sure to keep the address label that comes with each cartridge for recycling.
- **Plastics Recycling:** Send your used PLA and ABS printed parts to either our USA or Germany location. We will properly and responsibly compost, recycle, and reuse your returned plastic parts as a renewable source to manufacture new cartridges, reducing both raw materials consumption and the waste stream.

3D Systems is committed to continuously improve the sustainability of its 3D printing products. For questions, feedback and suggestions, please contact cubify@cubify.com.

Send cartridges and plastics to:

3D Systems Corporation 333 Three D Systems Circle Rock Hill, SC 29730 USA **3D Systems Cartridge Recycling Centre** c/o UPS SCS GmbH & Co. OHG Biberweg 12 53842 Troisdorf Germany



Please visit http://cubify.com/en/Info/Sustainability for more information.

WARNING: IT IS THE RESPONSIBILITY OF THE USER TO DISPOSE OF ANY REFUSE GENERATED BY THE USE OF THE CUBEPRO PRINTER IN A RESPONSIBLE MANNER ACCORDING TO ALL LOCAL LAWS AND STATUTES.



3D Systems, Inc.

333 Three D Systems Circle | Rock Hill, SC | 29730 www.3dsystems.com

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