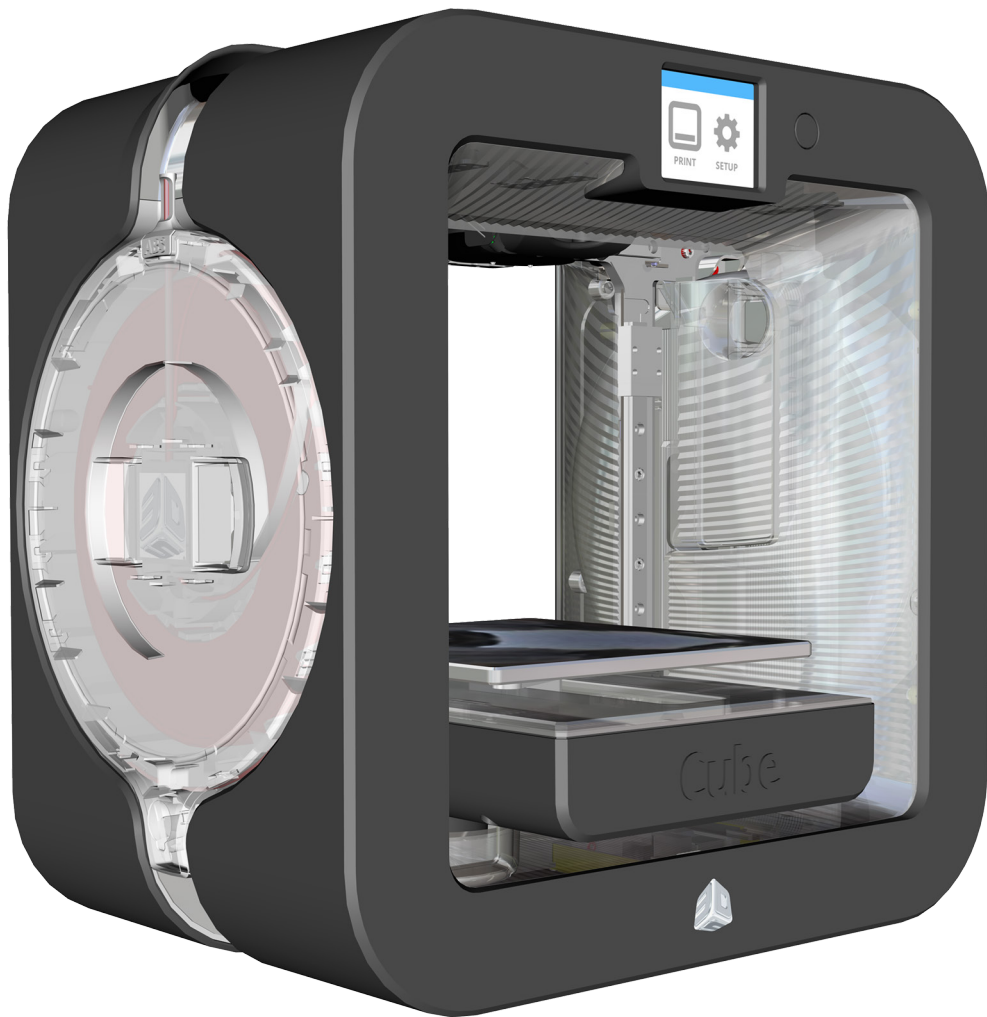


Cube®

3rd Generation
Personal 3D Printer



User Guide

Original Instructions

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1 INTRODUCTION

Thank you for purchasing the Cube® 3D Printer. This printer is portable with a plug and print design that enables everybody in the family to express their creativity like never before. With multiple material colors to choose from and two types of materials, enjoy the freedom to print in your true colors or mix it up. With its ready-to-print technology, the Cube provides a new dimension to your imagination and helps you share your creations with others in the Cubify community at Cubify.com.

At Cubify.com you can:

- Upload your creations
- Purchase creations
- Get your creations 3D printed and shipped to you
- Engage with other creative partners
- Buy the Cube 3D Printer, print cartridges, and supplies

COPYRIGHT INFORMATION

©2014 by 3D Systems, Inc. All rights reserved. This document is subject to change without notice. This document is copyrighted and contains proprietary information that is the property of 3D Systems, Inc. The 3D Systems logo, 3D Systems, Cube and Cubify are registered trademarks of 3D Systems, Inc. Use of the Cubify.com website constitutes acceptance of its Terms of Service and Privacy Policy.

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.

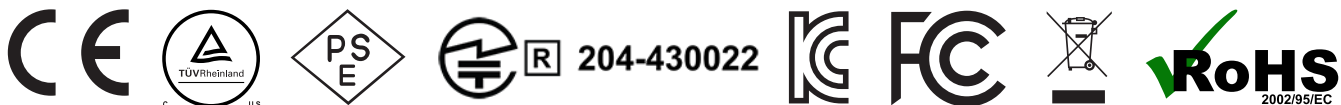
KCC

이 기기는 가정용(B급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 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 Cube 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 Cube 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, Print Pads, and Cube Glue), (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 in the Cube 3D Printer. The warranty period for the Cube 3D Printer is ninety (90) days and shall start on the date your Cube 3D printer is activated. For consumers who are covered by consumer protection laws or regulations in 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 consumers protection laws and regulations, including but not limited to these additional rights.

THIS WARRANTY IS THE ONLY WARRANTY PROVIDED FOR THE CUBE 3D PRINTER. TO THE MAXIMUM EXTENT PERMITTED BY LAW, 3D SYSTEMS EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES FOR THE CUBE 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 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 CUBE 3D PRINTER.

EXTENDED WARRANTY

3D Systems warrants that the Cube or 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 the respective User Guide. 3D Systems will promptly repair or replace the Cube or 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 Cube or CubePro 3D Printer. The warranty period for the Cube 3D Printer is ninety (90) days and shall start the date Your Cube 3D Printer is activated. 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) twenty four (24) months after the date 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 standard 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 CUBE OR CUBEPRO 3D PRINTER. TO THE MAXIMUM EXTENT PERMITTED BY LAW, 3D SYSTEMS EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES FOR THE CUBE OR 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.

You must contact the 3D Systems' Warranty Hotline for any defects in the Cube or CubePro 3D Printer during the warranty term. If you purchased your CubePro 3D Printer from a company other than 3D Systems, you may need to speak with them first before contacting 3D Systems. You may be instructed to ship the defective 3D Printer, or certain parts of the 3D Printer, to 3D Systems. Please retain your Cube or CubePro packaging so that it may be used if You need to ship the 3D Printer. You can learn more about 3D Systems' warranty, service, updates, and other support by visiting <http://cubify.com/en/Cube> for the Cube 3D printer or <http://www.cubify.com/en/CubePro> for the CubePro 3D printer. You may also directly contact 3D Systems using the numbers or email addresses below:

Warranty Hotline from the Americas

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.

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.

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.

2 IMPORTANT SAFETY INFORMATION

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 Cube. Doing so is prohibited and voids the manufacturer's warranty.
- Use of print materials, or 3D prints other than 3D Systems' print materials and genuine 3D Systems' components may void the warranty.
- Adult supervision is required; observe children closely and intervene as necessary to prevent potential safety problems and ensure the Cube's appropriate use. Ensure small 3D prints are not accessible to young children. These 3D prints are potential choking hazards for young children.
- DO NOT change a material cartridge during printing; doing so may damage the Cube.



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



Caution: DO NOT disconnect the CUBE from utility power while the printhead is hot. Wait until the print jet's amber light turns off before disconnecting from utility power as this may damage the print jet.



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



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



WARNING: THE CUBE 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.



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

To ensure safety, please exercise caution when operating your Cube. Read and follow all safety precautions as outlined in this user guide. Be careful when operating your Cube 3D Printer to ensure proper printing and be mindful of and avoid hot surfaces.

3 CUBE 3D PRINTER FEATURES

The print jets heat print materials and produce thin, flowing streams of molten plastic creating layers that adhere to the print pad. After each layer is produced, the print pad lowers so that a new layer can be drawn on top of the last. This process continues until the last layer on top of the creation has been printed.

CUBE 3D PRINTER FEATURES

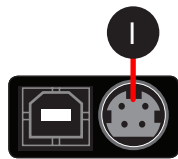
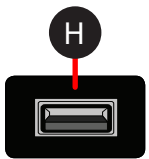
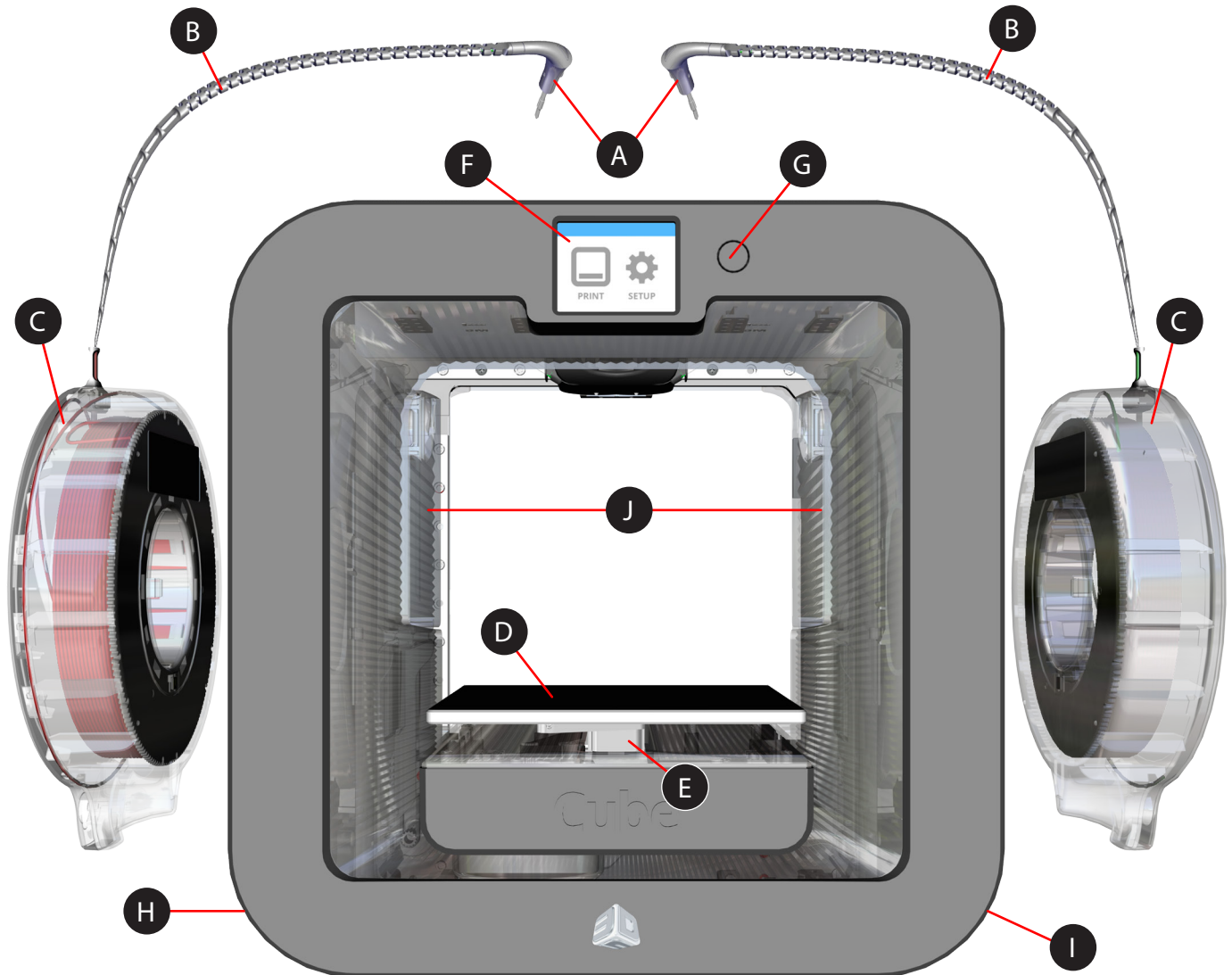
- Material cartridge
- Durable, ABS and PLA plastic materials
- 25 free 3D print creations
- USB and Wi-Fi connectivity

CUBE 3D PRINTER PROPERTIES

Technology:	Plastic Jet Printing (PJP)
Print Jets:	Up to two (2) jets*
Maximum Creation Size:	6" x 6" x 6" (152.40 mm x 152.40 mm x 152.40 mm)
Material:	Tough recyclable plastic
Layer Thickness:	.070 mm (70 microns) .200 mm (200 microns)
Supports:	Fully automated; easy to peel off
Cartridge:	1 cartridge prints 13-to-14 mid-size creations. Up to two (2) cartridge capacity.*
Material Colors:	Visit www.Cubify.com for a listing of color choices.

*The number of jets and cartridge capacity depends on the printer model and configuration.

4 AT A GLANCE



- | | |
|------------------------------|---|
| A Print Jets | F Touchscreen Display |
| B Print Jet Cords | G On / Off Button |
| C Material Cartridges | H USB Inlet Port (Mass Storage Device) |
| D Print Pad | I Power Inlet |
| E Print Platform | J Refuse Bins |

5 SPECIFICATIONS AND REQUIREMENTS

WEIGHT

Maximum Cube Weight (with cartridges):	17 lbs. (7.7 kg)
Maximum Box Weight:	23 lbs. (10.43 kg)

SOFTWARE

Complimentary software for Windows and Mac OSX. This application creates your .cube file for printing on your Cube.

OPENGL VERSION

- OpenGL ES 2.0+ on mobile platforms
- Open GL 3.0+ on Windows and Mac (using 3.2 library of glu)

WINDOWS REQUIREMENTS

- Cubify software runs on 32- and 64-bit operating systems
- Windows 7, 8 and 8.1
- Minimum screen resolution: 1024 x 768
- Windows is required for Ad Hoc Wi-Fi print job submission.

MAC OSX REQUIREMENTS

- OSX 10.8 and 10.9
- Minimum screen resolution: 1400 x 900

ANDROID

- 4.0 ICS (tables supported)

IOS

- 6.0+ (iPhone4 and newer)
- Minimum screen resolution: iPhone4

WIRELESS OPTIONS

- 802.11b/g with WPS Infrastructure
- Ad Hoc mode

WIRED OPTION

- USB mass storage device to transfer print files (supplied with the Cube)

ELECTRICAL REQUIREMENTS

Outlet Requirements	100 - 240 Volts, at 50/60 Hz
Cube electrical rating:	24V DC, 5 amp.

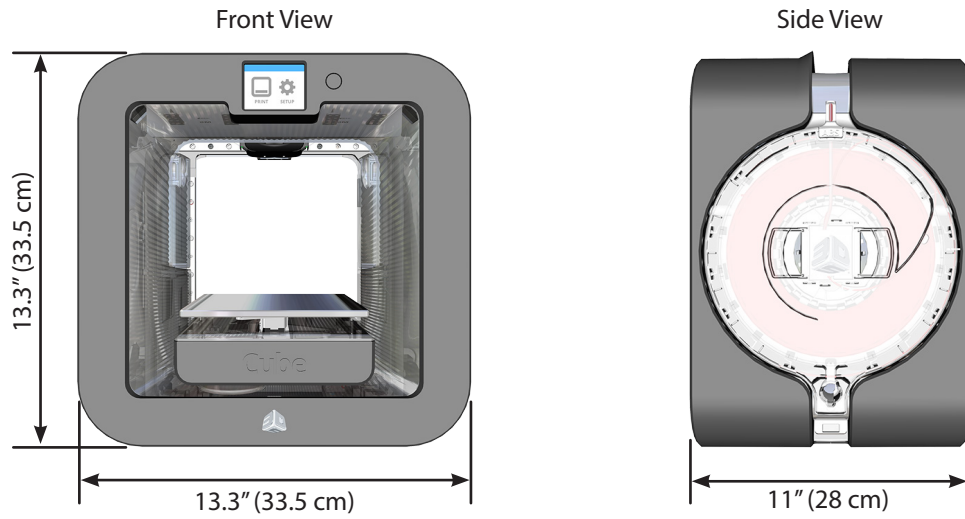
MATERIAL STORAGE

All polymers degrade with time. The following conditions ensure the material remains high quality:

- Do not unpack cartridges from the foil until the material is needed.
- Store at room temperature: 16-29° C (60 - 85° F)
- Nozzle: 280° C (536° F)
- Non-condensing relative humidity: 5% - 25%

DIMENSIONS

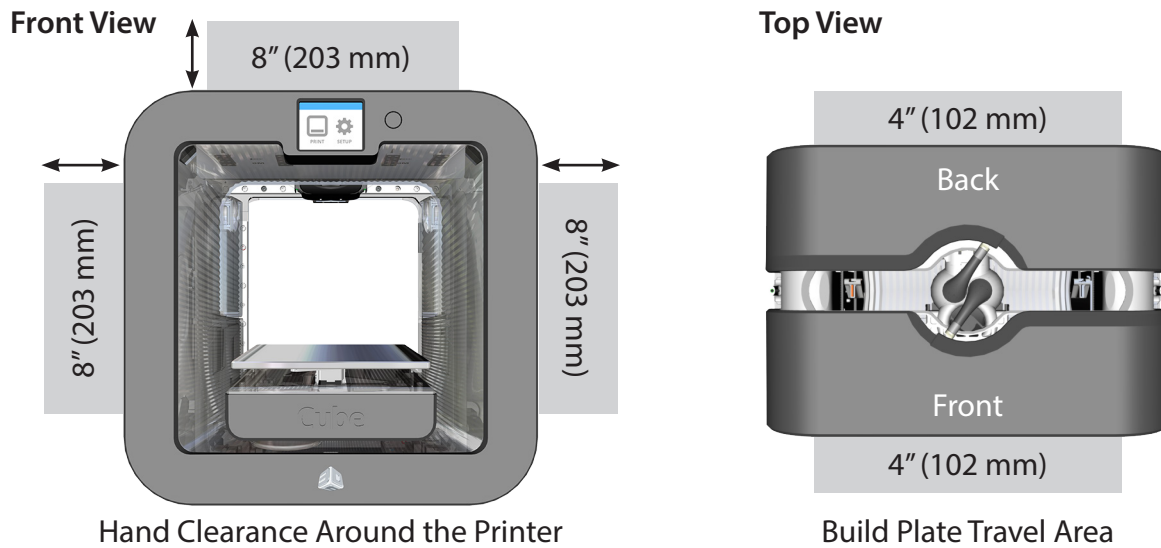
13.3"H x 13.3"W x 11" D / 33.5 x 33.8 x 28 cm



NOTE: When installing the printer there must be a minimum of 8" (203 mm) of space on top and on either side of the printer.

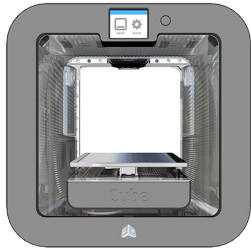


NOTE: There must be a minimum of 4" (102 mm) space in front of and behind the printer.

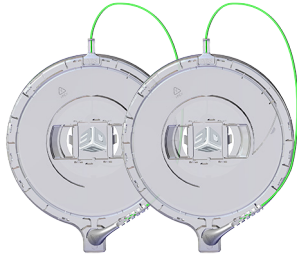


6 UNPACKING AND SETTING UP YOUR CUBE

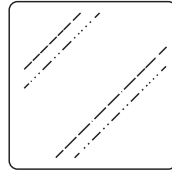
CONTENTS



Cube



Cartridges*



Print Pad



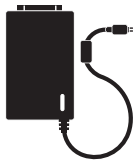
Cube Glue



USB Mass Storage Device



Gap Gauge (Shim)



Power Supply



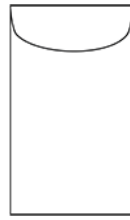
Power Cord



Pliers



Scraper



Envelope



Sandpaper



Quick Start Guide



1.5 mm Allen Wrench

*Depending on the Cube model and configuration, up to two cartridges may be included. Not every printer will ship with two cartridges.



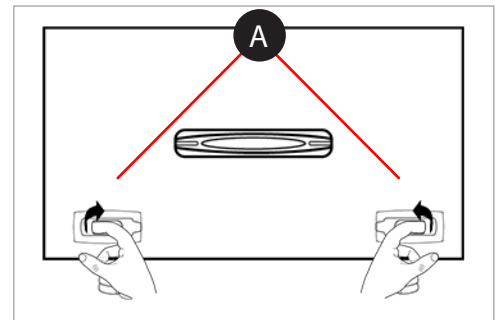
NOTE: The actual appearance of the contents may differ from the illustrations.

UNPACKING AND INSTALLING YOUR CUBE

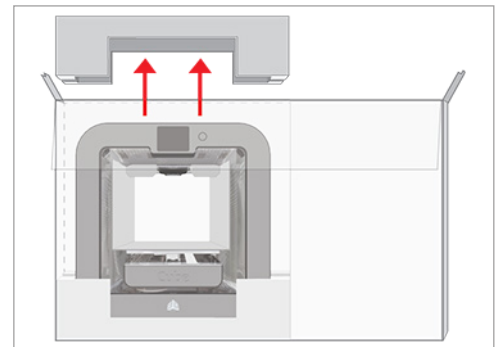


NOTE: Keep all packing materials in case the printer would need to be returned. Returning the printer without the original packing materials may damage the printer and void the manufacturer's warranty.

1. Pull the clips (A) and remove them from the top of the printer box.



2. Open the box.
3. Remove the upper foam support.



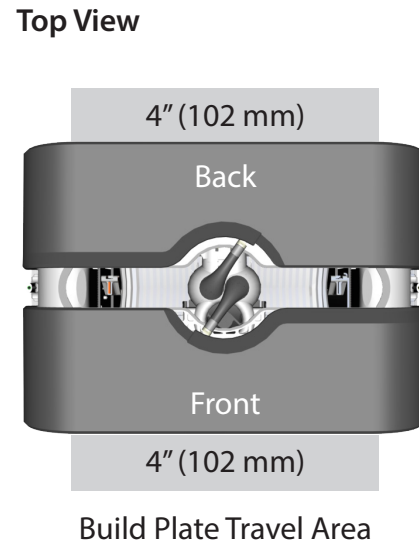
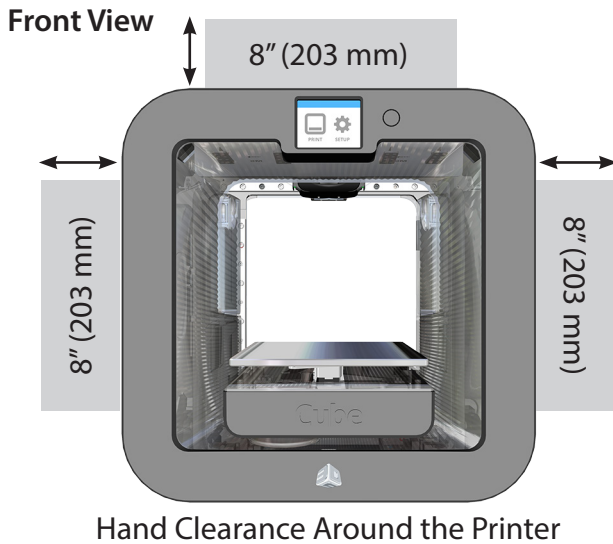
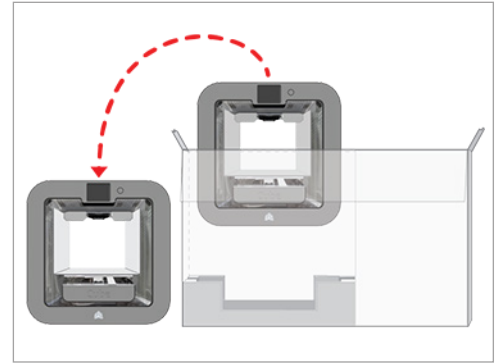
- Remove the printer from the lower box and remove the protective bag from the printer. Place the printer on a solid, level base where you intend to use it.



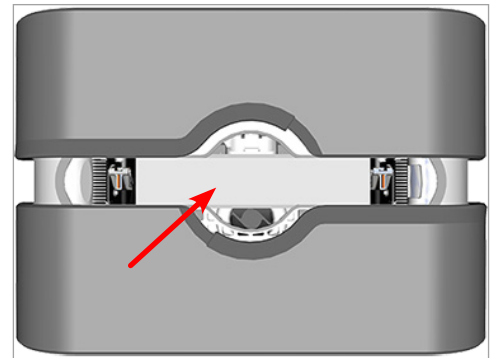
NOTE: When installing the printer there must be a minimum of 8" (203 mm) of space on top and on either side of the printer.



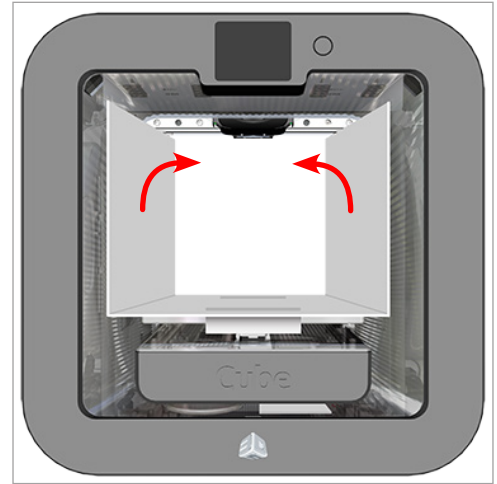
NOTE: There must be a minimum of 4" (102 mm) space in front of and behind the printer.



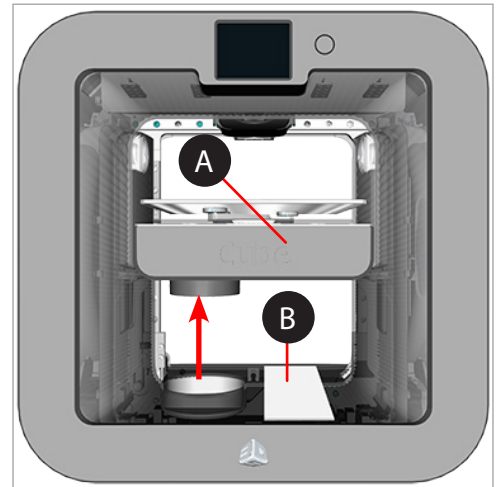
- Remove the top insert.



6. Fold the sides inward and remove the lower insert from the printer.



7. Raise the print platform (A) and remove the spacer (B) from the printer.

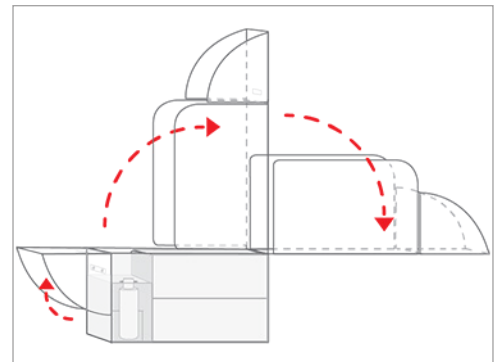


8. Open the accessories box and unpack the material cartridge(s)*, the USB mass storage device, the power supply and cord, and the glue bottle.



NOTE: Keep all packing materials for future repacking.

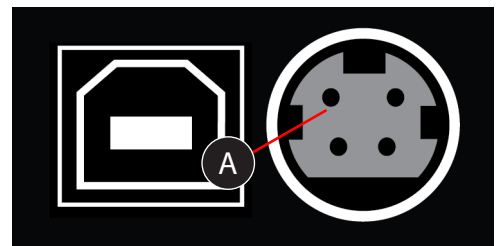
*Depending on your Cube model and configuration, you may receive 1 or 2 cartridges.



9. Connect the power supply cable to the power inlet port (A) on the printer.



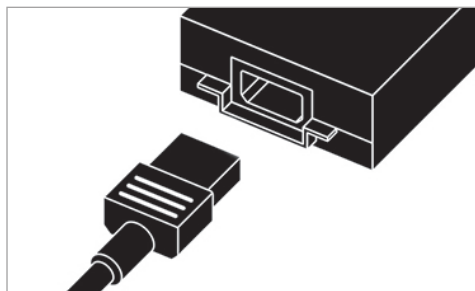
NOTE: Ensure the connection is secure. The cable should lock in place. To remove the cable, pull back on the outer cable end and carefully pull it out from the printer.



10. Connect the power cord to utility power and to the power supply.



NOTE: Ensure the connection is secure.



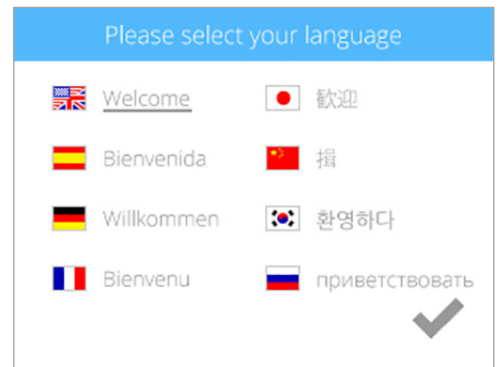
11. Power on the Cube by pressing the button next to the touchscreen display.

INITIAL SETUP OF THE CUBE

1. Select your language. Select the **checkmark** to continue.



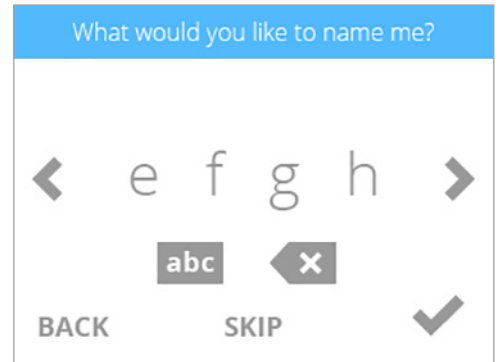
NOTE: The selected language will be indicated.



2. Enter a name for your printer. Scroll through the letters by pressing the arrow symbols on each side of the screen. Select the letters to spell out the name. Select the **checkmark** to confirm your choice. If you do not wish to name your Cube, select **SKIP** to continue.



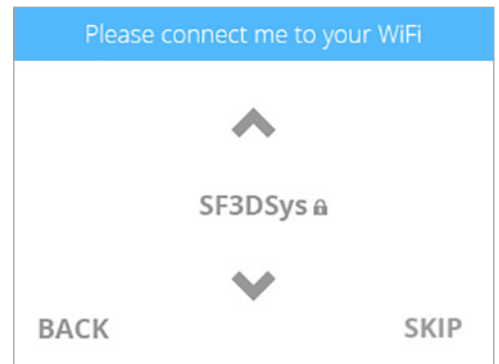
NOTE: Selecting the **abc** button toggles between lowercase letters, uppercase letters and numerals.



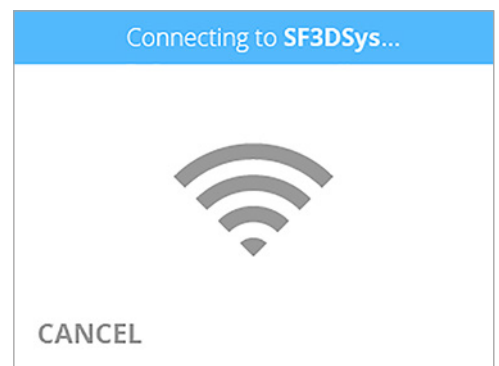
3. Connect the printer to a network. Use the up or down arrows to scroll to your network choice. Select the desired network name.



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: The printer will attempt to connect to your network.





NOTE: If your network is password protected, your Cube will first prompt you to enter the password. Once entered, select the **checkmark** to continue.



NOTE: The display will indicate when the network connection has been made.



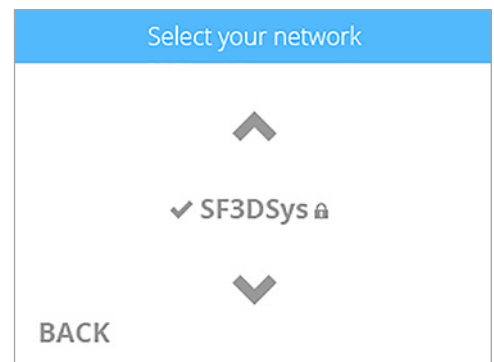
NOTE: If the wrong password was entered, you will be asked to enter the password again after a few seconds.



NOTE: If the printer can not connect to a network, you will be asked to select another network after a few seconds.



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



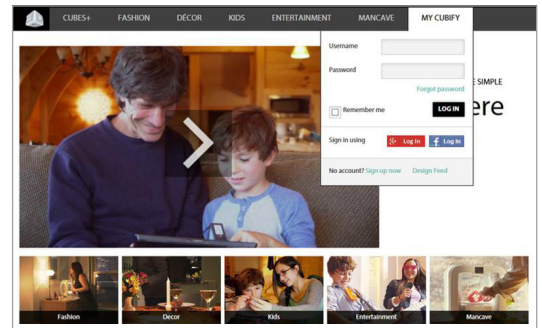
4. Select the checkmark to continue to the registration and warranty activation process.



5. Go to www.Cubify.com and select **My Cubify**. Select **Sign Up Now** and enter the registration information.



NOTE: You will need to be logged in to www.Cubify.com to activate your printer.



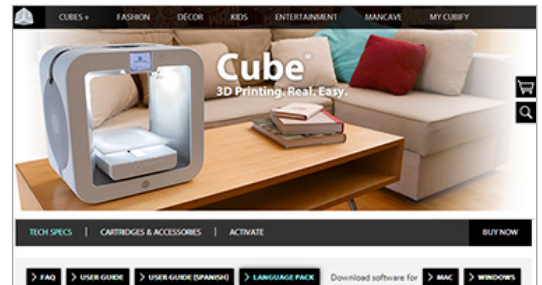
6. Go to www.Cubify.com/en/Cube.



NOTE: Select **Products > 3D Printers**. Navigate to **Cube** and select **LEARN MORE**.

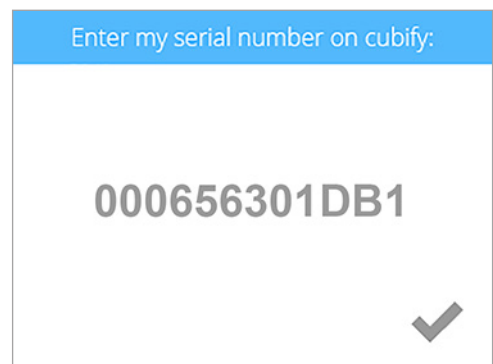


7. Select **Activate**.

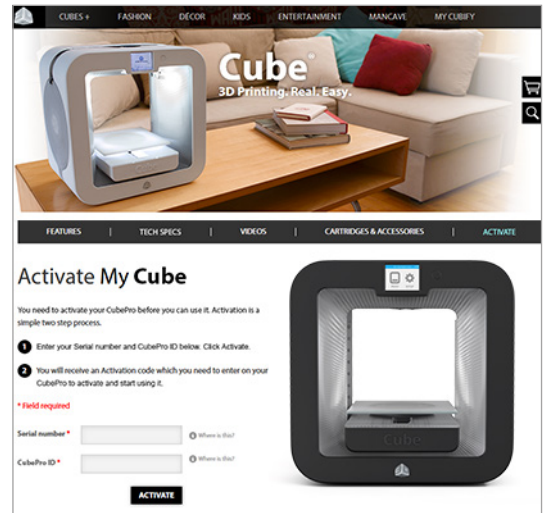


NOTE: The serial number for your printer will appear on the printer's touchscreen display. Take note of the serial number. You will need this number for the activation process.

8. Select the **checkmark** to continue.



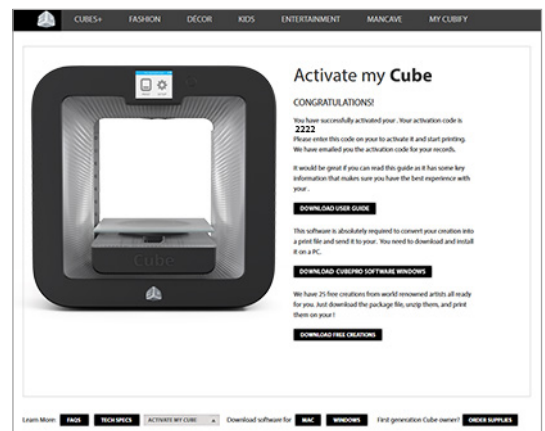
9. Enter your **serial number** twice and select **Activate**.



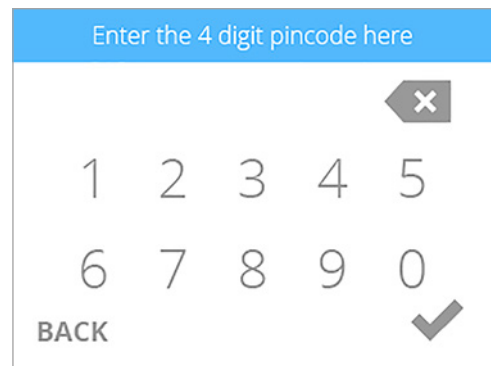
NOTE: Your 4-digit activation code will appear. Make note of the activation code because it will need to be entered into the printer's touchscreen display to activate the printer.



NOTE: You can access the user guide, Cubify applications, and creations.



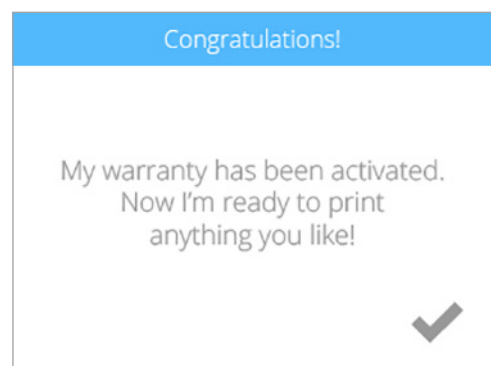
10. Enter the 4-digit **activation code** into the printer and select the **checkmark** to continue.



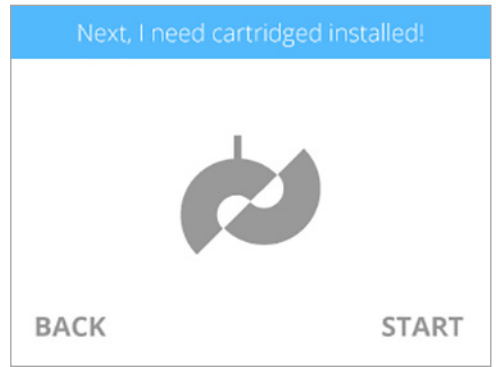
11. Select the **checkmark** to complete the registration and warranty activation process.



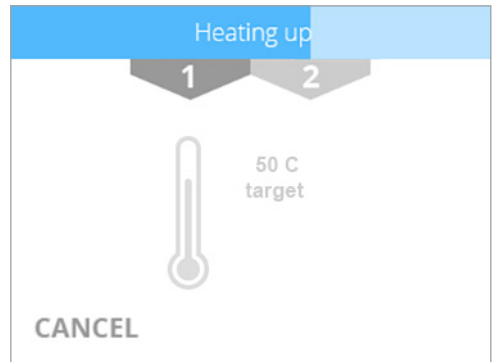
NOTE: Once the printer has been activated, you may press and release the button next to the touchscreen display to return to the main menu.



12. Select the cartridge icon or select Start to begin the process of installing your print cartridge.



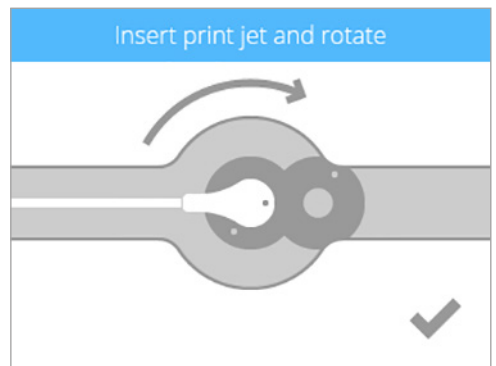
NOTE: The printer will begin to heat. Wait until the printer has finished heating and then follow the user prompts in the touchscreen menu.



13. Insert the left material cartridge print jet into the top of the printer. Rotate the print jet clockwise until the dots align.



NOTE: As you rotate the print jet, ensure the print jet cord is tucked under the top of the printer cover.

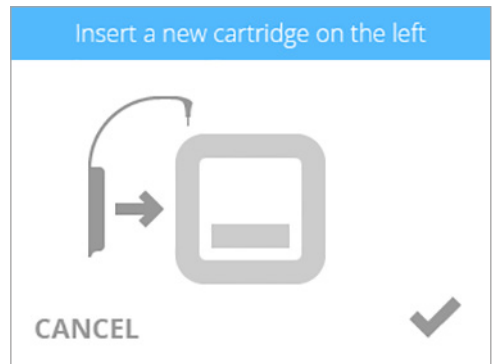


14. Select the **checkmark** to continue.

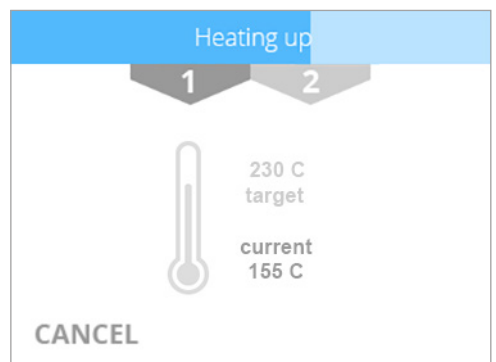
15. Mount a material cartridge on the left side of the printer and select the **checkmark** to continue.



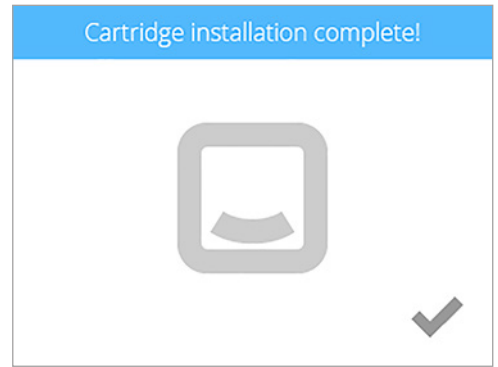
NOTE: It may become necessary to slightly rotate the cartridge when trying to seat it.



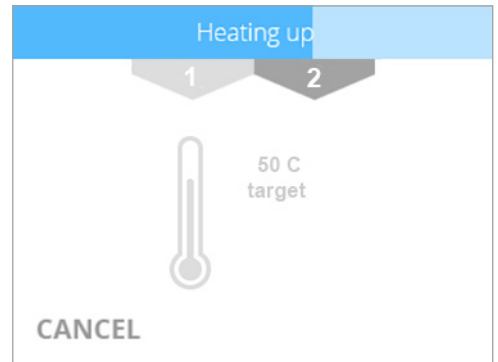
NOTE: The print jet will begin to heat. Once the print jet has reached the proper temperature, the printer will prime molten material into the refuse bin.



16. The cartridge has been installed. Select the **checkmark** to continue.



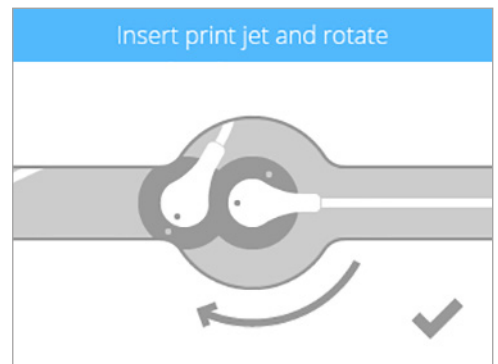
NOTE: The printer will begin to heat. Wait until the printer has finished heating and then follow the user prompts in the touchscreen menu.



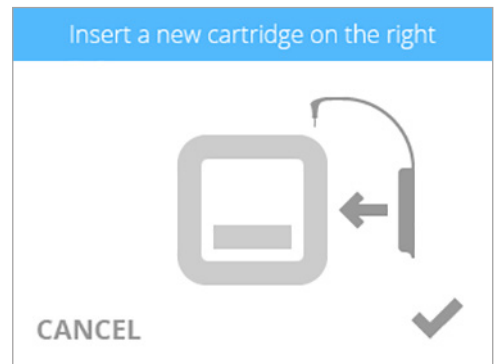
17. Insert the right material cartridge print jet into the top of the printer. Rotate the print jet clockwise until the dots align.



NOTE: As you rotate the print jet, ensure the print jet cord is tucked under the top of the printer cover.



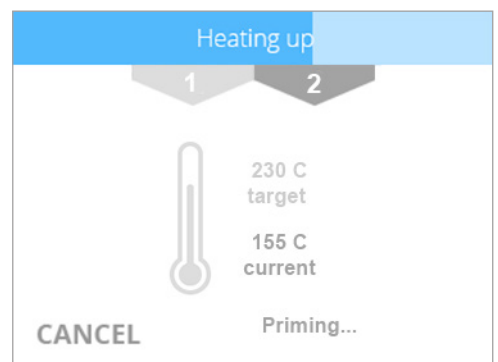
18. Select the **checkmark** to continue.



19. Mount a material cartridge on the right side of the printer and select the **checkmark** to continue.



NOTE: It may become necessary to slightly rotate the cartridge when trying to seat it.



NOTE: The print jet will begin to heat. Once the print jet has reached the proper temperature, the printer will prime molten material into the refuse bin.

20. The cartridge has been installed. Select the **checkmark** to continue.

21. It is recommended that Auto Level is performed prior to the first print. Ensure the print pad is clean and installed properly and then select the **checkmark** to continue to Auto Level.

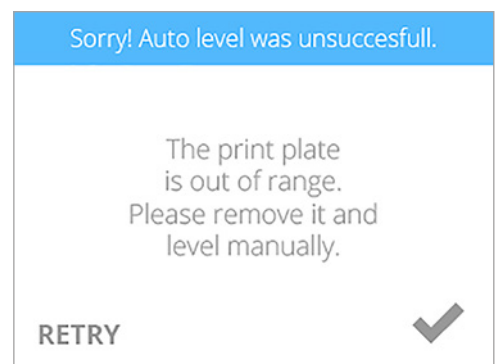
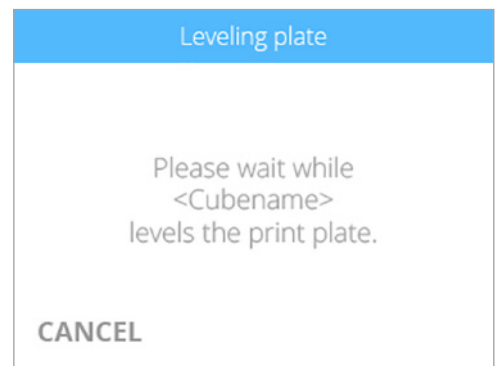
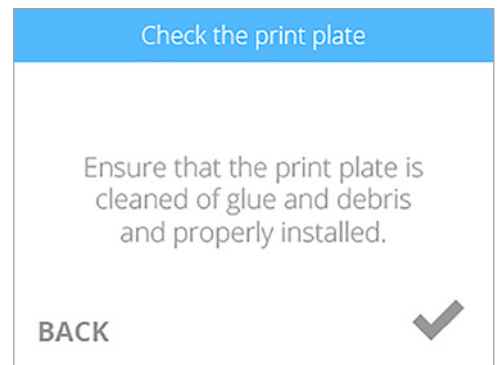
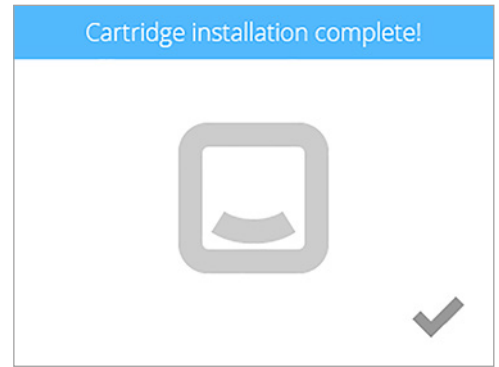


NOTE: The printer will begin the Auto Level procedure. This may take a few minutes.

22. Select the **checkmark** to continue.



NOTE: If the print pad is not level, remove the print pad and select the **checkmark** to continue.





NOTE: Follow the instructions on the screen. Use the included 1.5 mm Allen wrench to loosen the set screws securing the adjustment knobs to the bracket before turning the knobs. Select the **checkmark** to continue. You will be prompted to perform the Auto Level procedure again.



NOTE: Once adjustments have been completed, tighten the set screws before continuing.


23. It is recommended that Auto Gap is performed after performing the Auto Level procedure. Ensure the print pad is clean and properly installed and then select the **checkmark** to continue to Auto Gap.




NOTE: The printer will perform an automated gap measurement.

24. Select the **checkmark** to continue.

Leveling plate manually




Rotate screw A 1/4 turn to the right

BACK 

Check the print plate

Ensure that the print plate is cleaned of glue and debris and properly installed.

BACK 

Setting the Z-gap.

Please wait while <Cubename> sets the Z-gap.

CANCEL

Auto gap

Auto gap successful.

ADJUST 



NOTE: If Auto Gap is not successful, it is recommended that you perform Auto Level and Auto Gap again. Select **AUTO LEVEL** to continue.



NOTE: If Auto Gap is not successful the second time, select **PLATE MAINTENANCE**. For more information, refer to the section titled Print Pad Maintenance. Once the Plate Maintenance procedure has been performed, perform Auto Level and Auto Gap.



NOTE: If Auto Gap is still not successful, select **MANUAL GAP ADJUSTMENT**. Refer to the section titled Manual Gap Adjustment for more information. Once the Manual Gap Adjustment procedure has been performed, note the final reading for future reference.

25. Select **PRINT**.

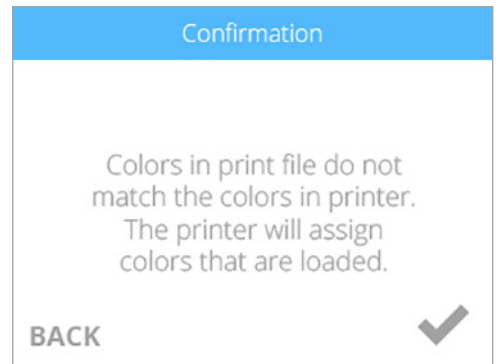
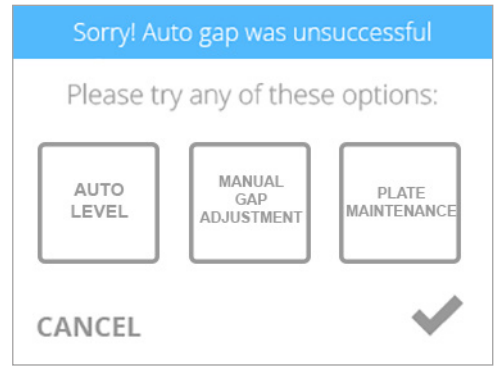


NOTE: The printer will continue with printing a welcome message. Select **SKIP** to bypass this test print.



NOTE: If the color built into the test print does not match a color of one of the installed print cartridges, the printer will assign an installed cartridge color to the test print.

26. Locate the Cube Glue.



27. Apply a thin layer of Cube Glue to the print pad. Select the checkmark to continue.



NOTE: Apply enough glue to cover a square area of 5"/15 cm.



NOTE: Ensure the glue is dry prior to printing.



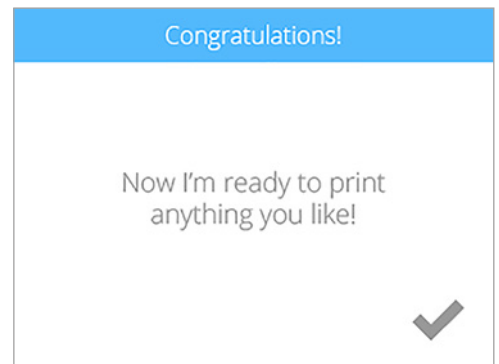
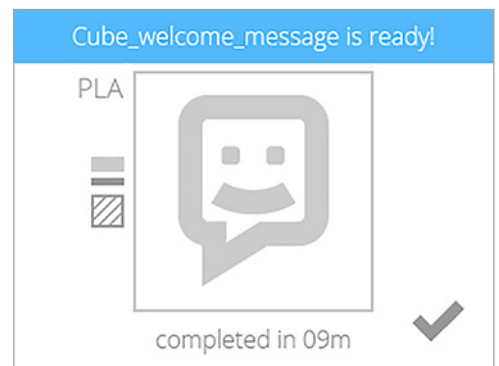
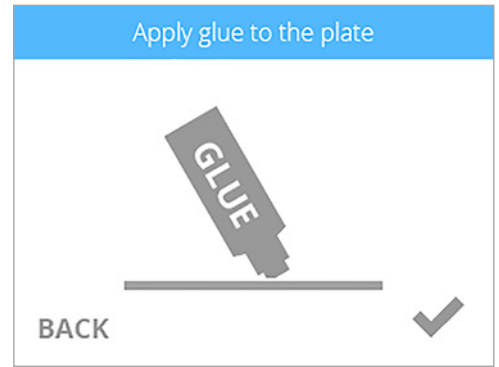
NOTE: The printer will begin to heat and then begin printing the welcome message.

28. Select the **checkmark** to continue.

29. Select the **checkmark** to continue.



NOTE: You may also press and release the button next to the touchscreen display to return to the main menu.



MENU OVERVIEW

Touchscreen Display

After powering on the printer, touch the display to start.



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



NOTE: You may press and release the button next to the touchscreen display to return to the PRINT / SETUP menu.

Print / Setup

PRINT

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

SETUP

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

Navigation

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

Materials

CARTRIDGE STATUS

CARTRIDGE STATUS allows the user to view the type and color of the material that is installed. It also displays the estimated amount of material left in the cartridge.

CHANGE CARTRIDGE

Selecting **CHANGE CARTRIDGE** allows the user to install cartridges in empty bays or replace installed cartridges.

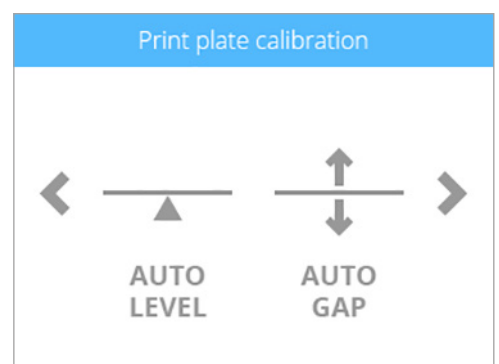
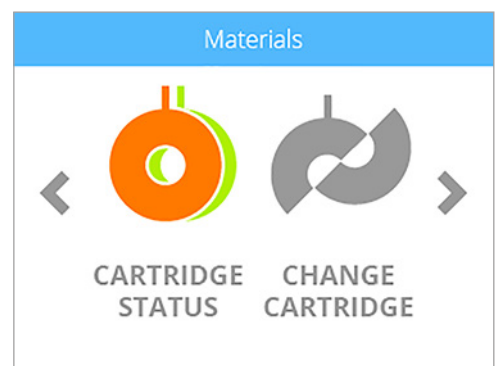
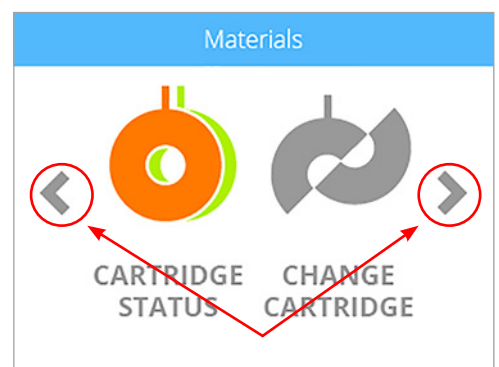
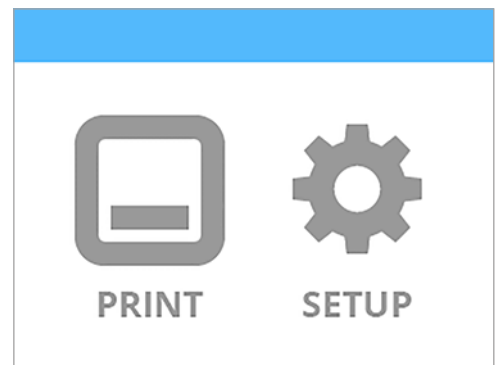
Print Plate Calibration

AUTO LEVEL

AUTO LEVEL is an automated procedure that measures the level of the print pad. If the print pad is found to be out of specification, the touchscreen will prompt the user to use the adjustment screws to level the print pad.

AUTO GAP

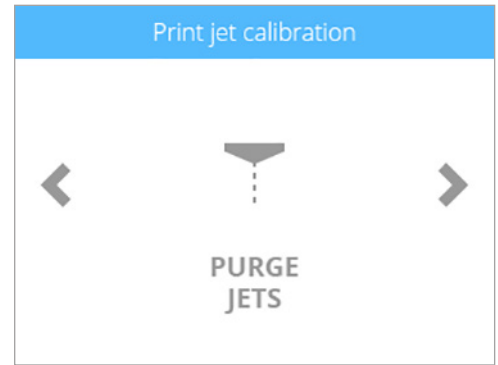
AUTO GAP is an automated procedure that measures the distance between the print pad and the print jets. If the gap is too large or too small, the user can perform the Manual Gap procedure.



Print Jet Calibration

PURGE JETS

PURGE JETS is a utility that enables you to verify the operation of the print jets and their ability to purge molten material from the print cartridges. This is especially useful when troubleshooting extrusion issues.



Network

WIFI

The **Network** screen provides a utility to connect the printer to a wireless network. Wireless connections include:

- Wi-Fi
- Ad Hoc



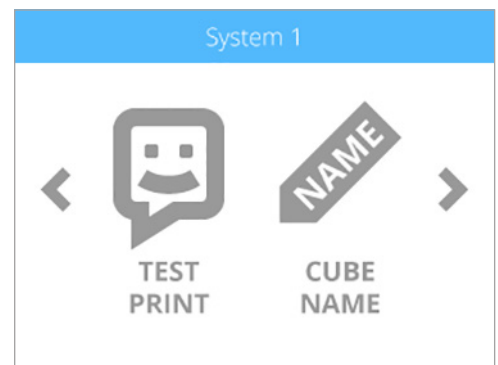
System 1

TEST PRINT

TEST PRINT is a feature that allows you to perform a test print which is saved in the printer. This Test Print is the same Welcome Message test print that is printed when first setting up and activating your printer.

CUBE NAME

CUBE NAME is a utility that allows you to change the name of your Cube printer.



System 2

SELECT LANGUAGE

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

LIGHT

The **LIGHT** icon allows the user to turn on or off the system LEDs.



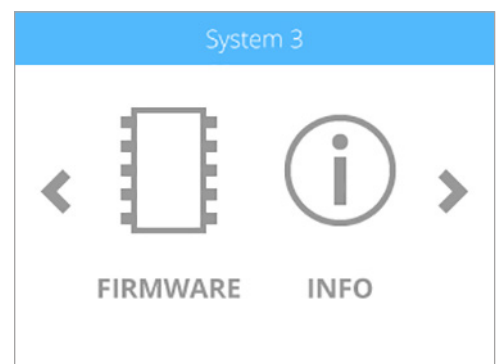
System 3

FIRMWARE

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

INFO

By selecting **INFO**, the printer will display the printer status.



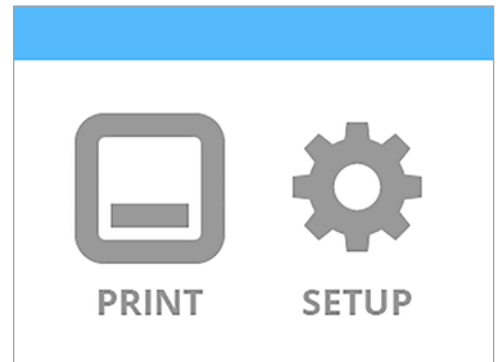
INSTALLING A MATERIAL CARTRIDGE

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(s).

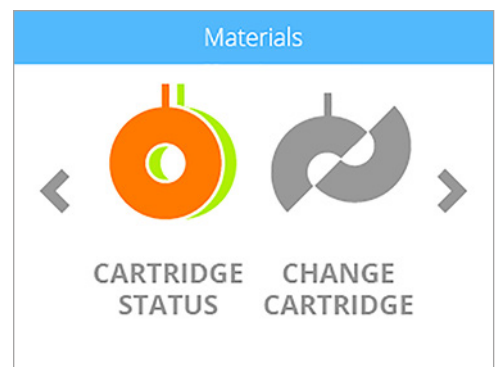


Caution: Material cartridges should only be installed by performing the following procedure. Installing the cartridge without using the printer menu can damage the printer or print jet nozzles and void the manufacturer's warranty.

1. Select **SETUP**.



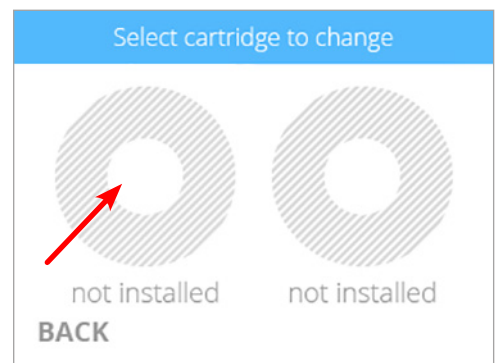
2. Select **CHANGE CARTRIDGE**.



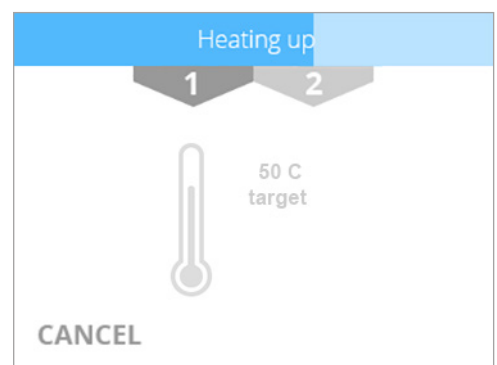
3. Select the left cartridge.



NOTE: This procedure demonstrates replacing the left material cartridge. Follow the same concept to replace the right material cartridge if applicable.



NOTE: The printer will begin to heat. Wait until the printer has finished heating and then follow the user prompts in the touchscreen menu.

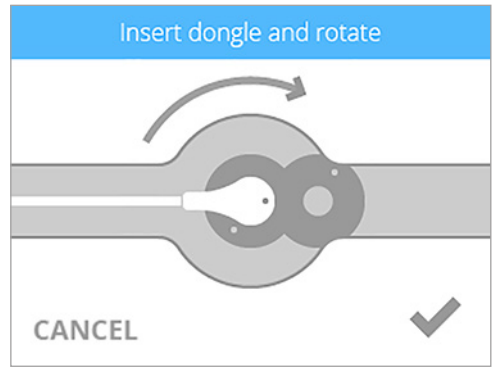


4. Insert the left material cartridge print jet into the top of the printer. Rotate the print jet to the right until the dots align.



NOTE: As you rotate the print jet, ensure the print jet cord is tucked under the top of the printer cover.

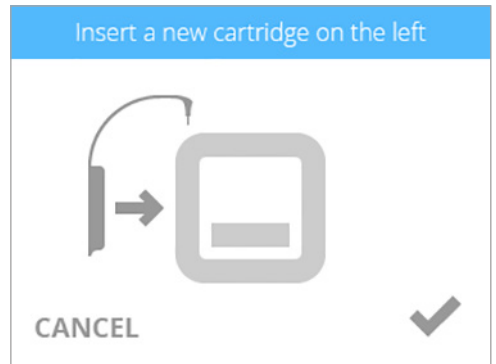
5. Select the **checkmark** to continue.



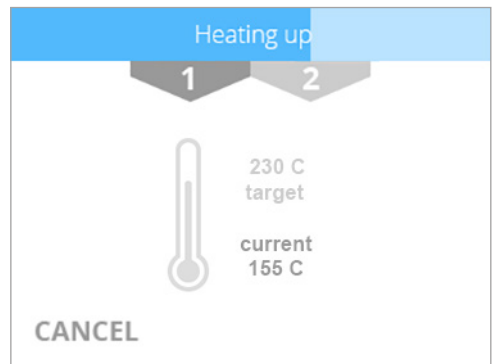
6. Mount the material cartridge on the left side of the printer. Select the **checkmark** to continue.



NOTE: It may become necessary to rotate the cartridge when trying to seat it.



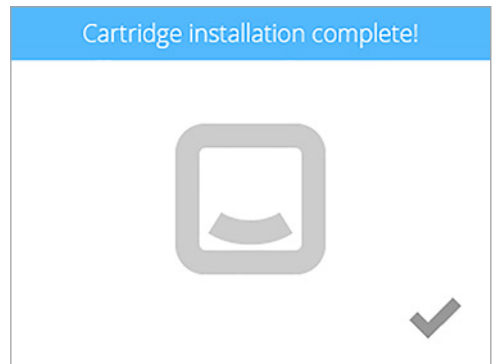
NOTE: The print jet will begin to heat. Once the print jet has reached the operating temperature, the printer will prime molten material into the refuse bin.



7. The cartridge has been replaced. Select the **checkmark** to complete the procedure.



NOTE: Once the cartridge has been installed, the print jet will cool down.



7 PRINTING YOUR CREATION

There are many 3D creations available at www.Cubify.com. In addition, you can create your own with Cubify Invent software available at www.Cubify.com. For more information about converting a .stl file into a .cube file which the printer can use, refer to the section titled [Cubify Software](#).

PRINTING PROCEDURE

The following procedure illustrates how to print a creation.



Caution: Ensure the print pad is clean before printing.

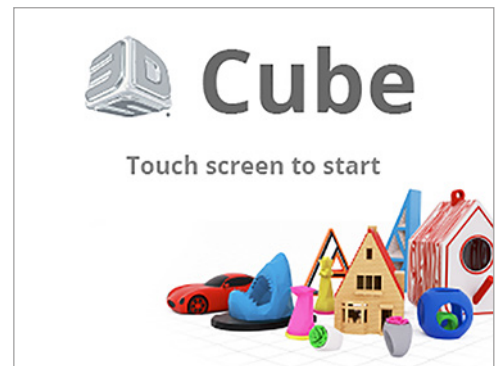


NOTE: For best results, perform the Auto Level and Set Plate Z-Height procedures before your first print.



NOTE: After every 10 prints, the printer will prompt you to perform the Auto Level and Set Plate Z-Height procedures.

1. After powering on your printer, press the **touchscreen** to begin.



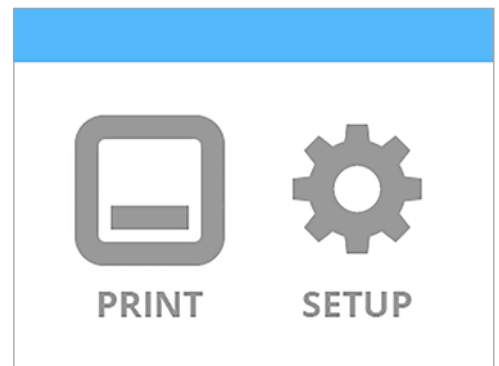
2. Select **PRINT**.



NOTE: If the file is saved on a USB mass storage device, insert the device into the USB inlet port on the printer.



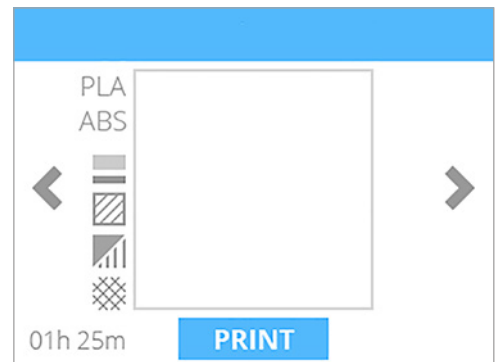
NOTE: You may also send the file from the Cube software to the printer using a wireless connection although that may take longer.



3. Using the arrows, navigate to the file name of your creation.



NOTE: The file name will appear at the top of the display.





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**.



NOTE: If the print file requires ABS material and PLA 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**.



NOTE: If there is not enough material in the cartridge to complete the print, the printer will prompt you to either change the cartridge(s) or continue using the cartridge until the print material has been depleted. To change the cartridge, select **CHANGE CARTRIDGE** and refer to the section titled **Replacing A Material Cartridge**. Select **SKIP** to continue using the remaining material in the cartridge. You will be prompted to replace the cartridge once the material has been depleted.




NOTE: If there is not enough material to complete the print but you want to use up the remaining material, select the **checkmark** to continue printing.



NOTE: If the file was built with color(s) that are not installed, the printer will assign a color from one of the installed cartridges that match the material type.


This print requires PLA material!



CHANGE CARTRIDGE

BACK


This print requires ABS material!



CHANGE CARTRIDGE

BACK

Not enough material for this print



CHANGE CARTRIDGE

BACK SKIP

Not enough material for this print

The printer will use up the material in the current cartridge. A new cartridge needs to be loaded during the print.

BACK ✓

Confirmation

Colors in print file do not match the colors in printer. The printer will assign colors that are loaded.

BACK ✓

4. Apply a light coat of Cube Glue to the center of the print pad. Select the **checkmark** to continue.



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



NOTE: Ensure the glue has dried before printing.



NOTE: The printer will load the print file.



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



NOTE: The blue bar at the top is also a progress indicator that shows the status of the loading process.



NOTE: The print jet(s) required to print the creation will begin to heat.



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



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



NOTE: The blue bar is a progress indicator that shows the status of the print jet heating process.



NOTE: The blue bar is a progress indicator that illustrates the status of the print.



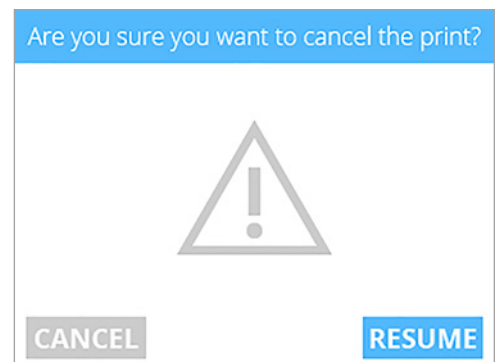
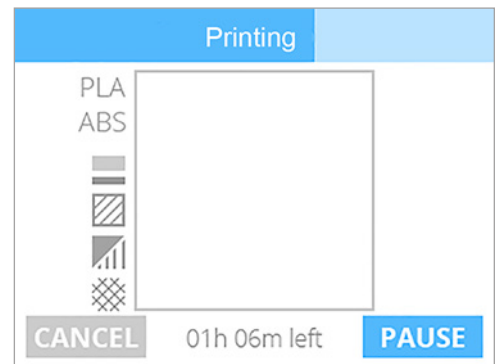
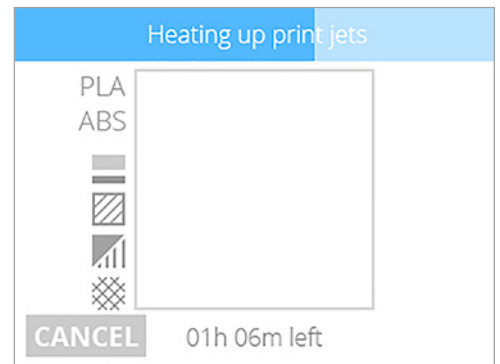
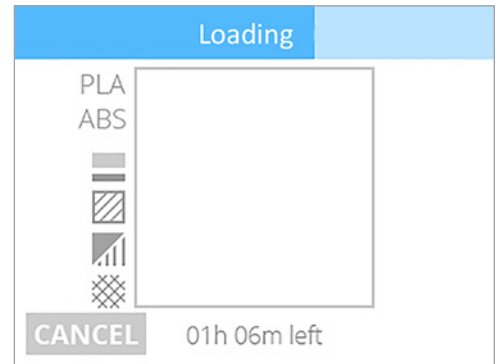
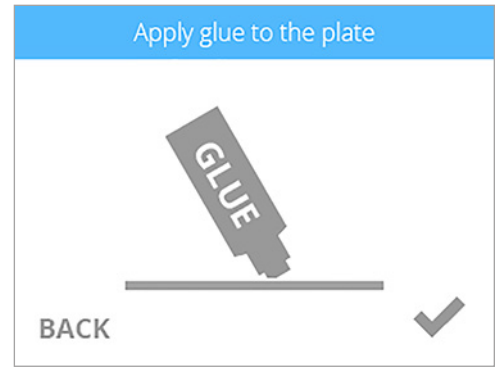
NOTE: Select **PAUSE** to temporarily stop printing. Select **CANCEL** if you wish to cancel the print job.



NOTE: Press the time at the bottom of the screen to view the percentage of completion. Press it again to view how many layers have been printed. After a few seconds, the default time will appear again.



NOTE: If you selected **CANCEL** to cancel the print, select **CANCEL** again to confirm your decision. Otherwise, select **RESUME** to continue printing.



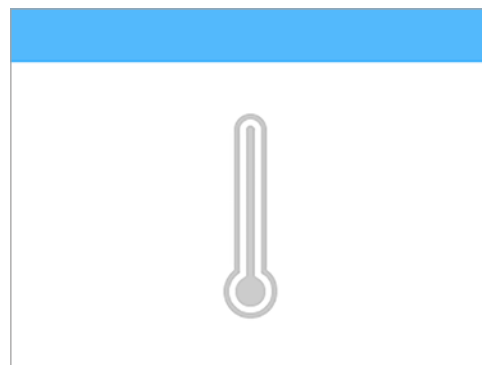
- Once the printer has finished printing, select the **checkmark** to continue.



NOTE: Once the print has completed, the print jets will begin to cool.



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



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

8 FINISHING YOUR CREATION

REMOVING YOUR CREATION FROM THE PRINT PAD



CAUTION: Before attempting to remove your creation from the print pad, ensure that the Cube 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 ten (10) minutes.



NOTE: If the part does not release from the print pad easily, allow the part to soak longer.



NOTE: IF you can not submerge the print pad in warm water, run hot water over the base of the part for ten (10) minutes. If the part still does not release easily from the print pad after ten (10) minutes, continue to run hot water over the part.

3. Using a rounded scraper, gently release your creation from the print pad.



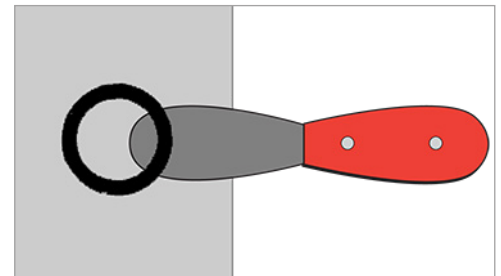
CAUTION: Always move the scraper away from the body. The scraper can cause injury if not used correctly.



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



CAUTION: Exercise caution when using a tool to remove a part so the print pad is not damaged.



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 .cube 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.

9 CUBIFY SOFTWARE

Cubify software is an easy-to-use tool that simplifies the printing process. Software for Windows or OS X is available after login to your www.Cubify.com account. Downloads are also available for iOS and Android mobile applications.

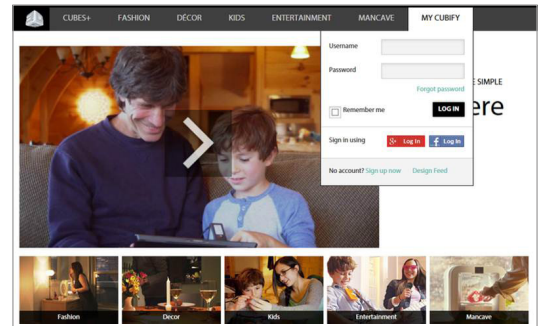
CUBIFY SOFTWARE INSTALLATION

Installing Cubify Software for Windows

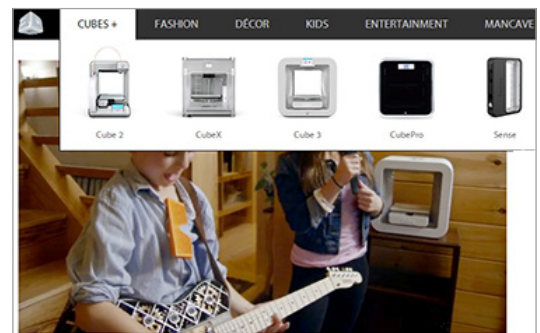


NOTE: Windows computers can only communicate with Cube printers that are connected to the same wireless network.

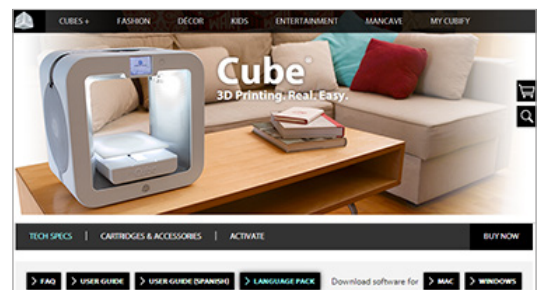
1. Go to www.Cubify.com and log in with your username and password.



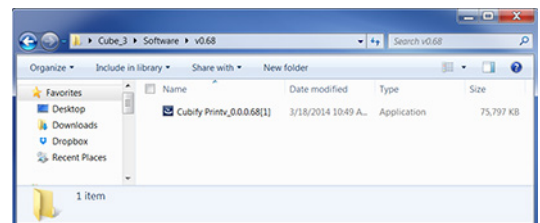
2. Go to www.Cubify.com/en/Cube/TechSpecs.



3. Select **WINDOWS**.



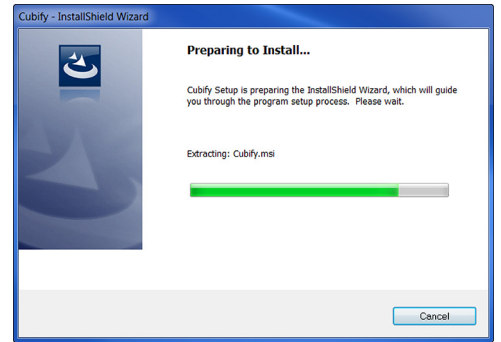
4. Extract the zip file and double-click the Windows installer file.





NOTE: The Cubify Print InstallShield Wizard will begin to install.

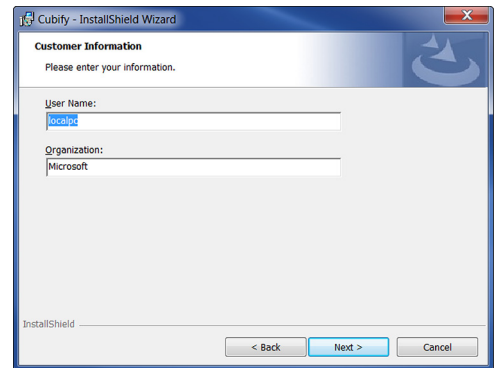
5. Select **Next** to continue.



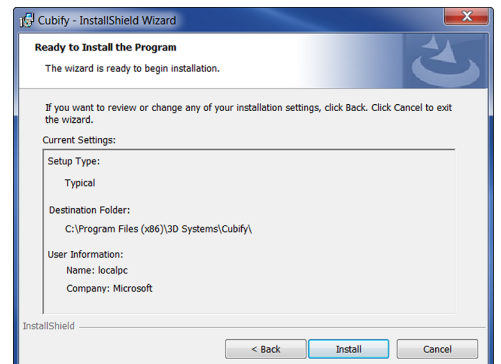
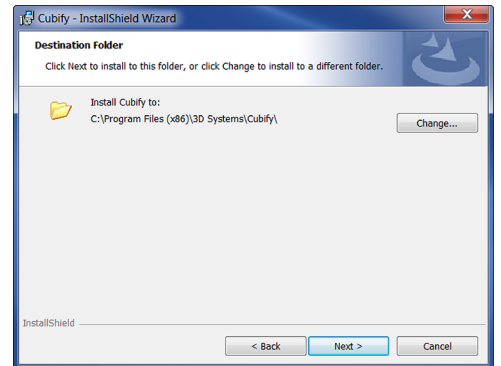
6. Enter a **User Name** and **Organization** in the provided fields. Select **Next** to continue.



7. Select **Next** to install the application in the listed location or select **Change** and browse to a different location.

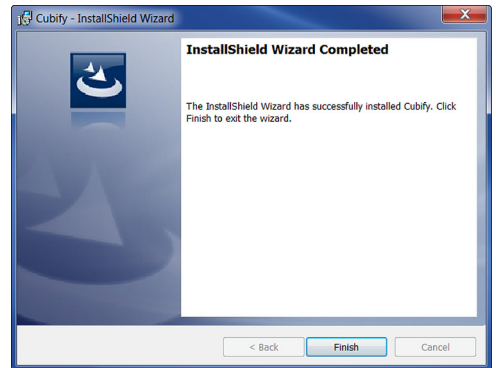
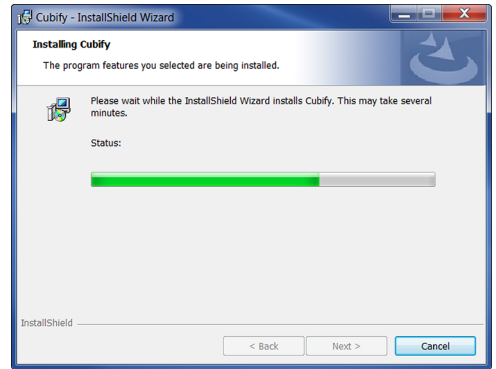


8. Select **Install** to continue.





NOTE: The Cubify Print application will begin to install.



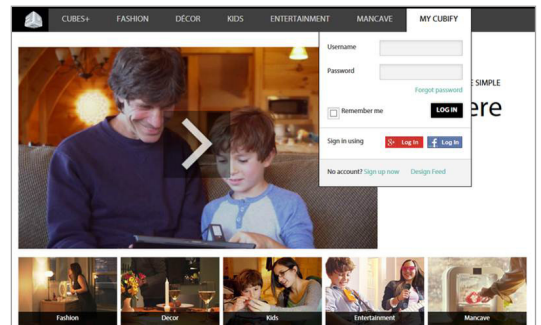
9. Select **Finish** to complete the Cubify Print installation.

Installing Cubify Software For Apple OS X

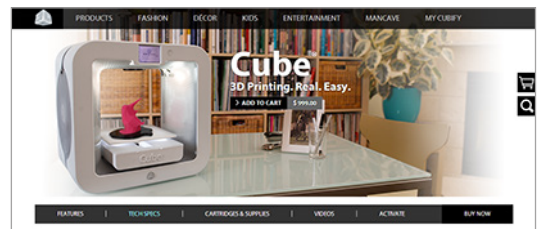


NOTE: Apple OS X computers can only communicate with Cube printers that are connected to the same wireless network.

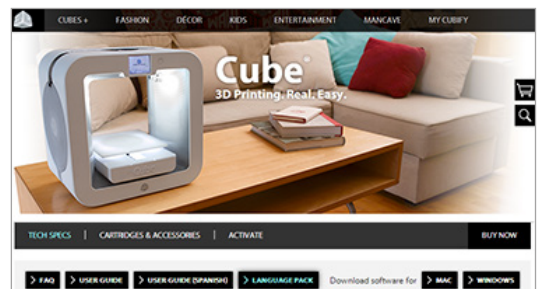
1. Go to www.Cubify.com and log in with your username and password.



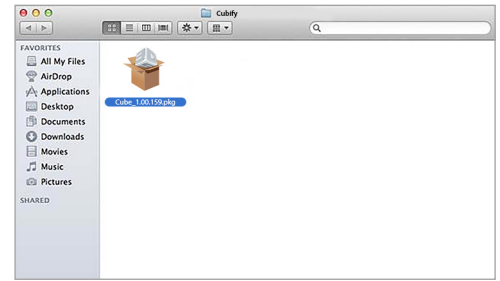
2. Go to www.Cubify.com/en/Cube/TechSpecs.



3. Select **MAC**.



4. Double-click the Cube software .dmg installer file.



5. Drag the **Cubify** icon into the **Applications** folder.



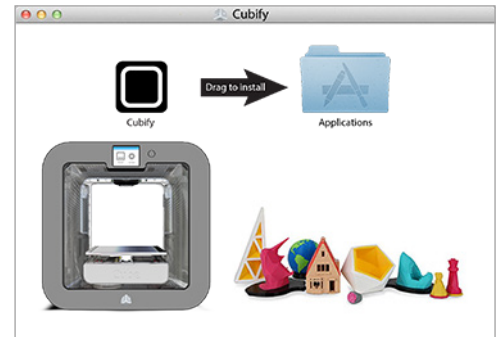
NOTE: If the **Drag to Install** window did not open, locate the Cubify Print driver in your device panel. Select **Cubify** to download the software.



NOTE: Safari users will not have to unzip the .dmg file; it unzips as it downloads.



NOTE: Cubify can be opened by navigating to the Applications page and double-clicking the Cubify icon.

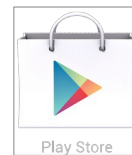


Installing Cubify for Android

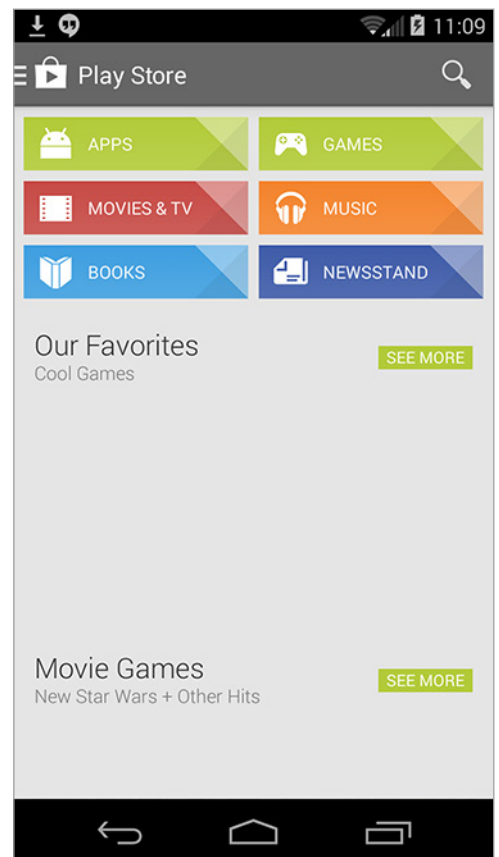


NOTE: Android devices can only communicate with Cube printers that are connected to the same wireless network.

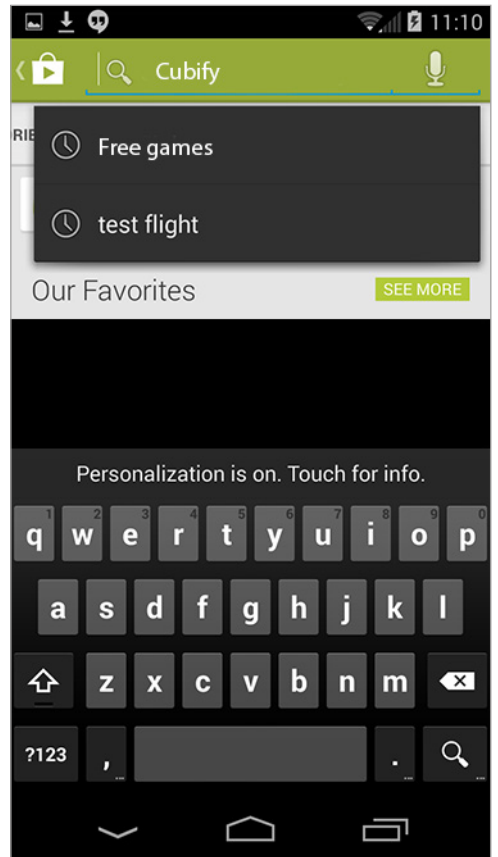
1. Open the Play Store from your Android browser.



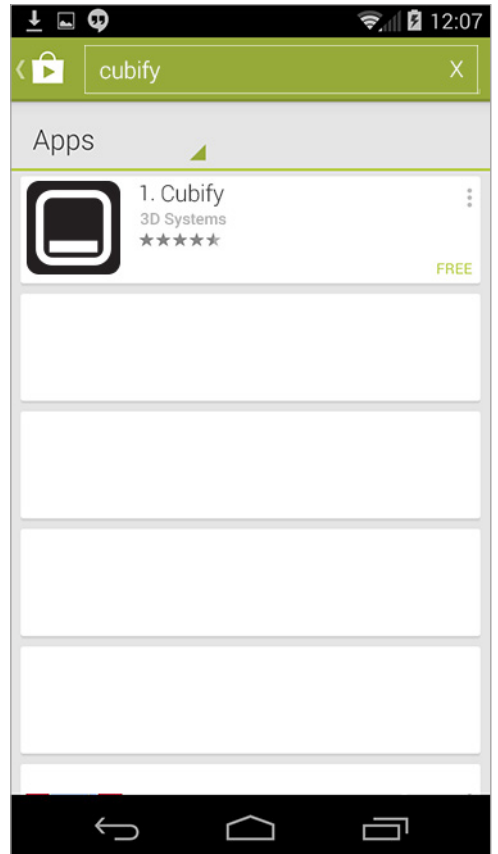
2. Select the Search icon.



3. Enter **Cubify** in the search box.



4. Select the **Cubify** application and install it.

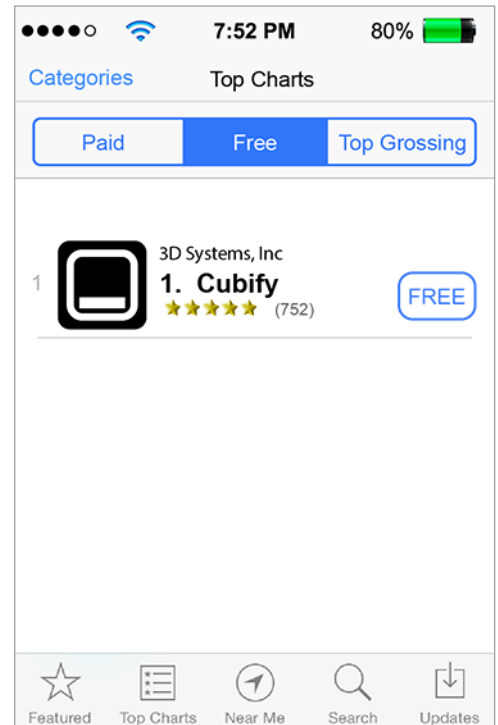


Installing Cubify for iOS

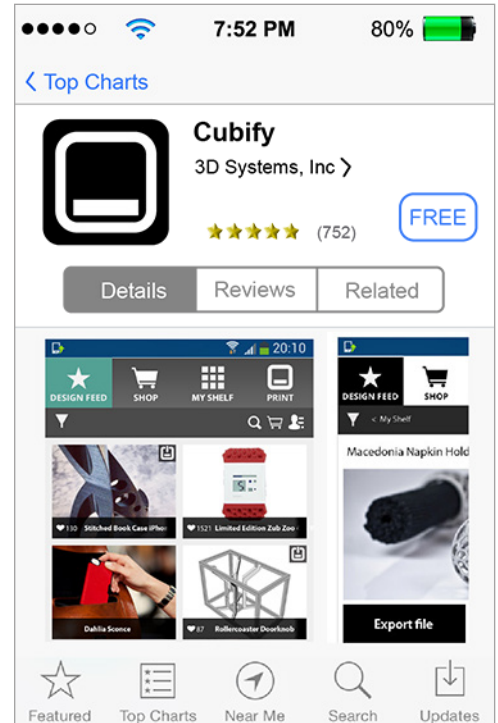


NOTE: iOS devices can only communicate with Cube printers that are connected to the same wireless network.

1. Locate the Cubify application from the App Store and select it.



2. Download the application to your iOS device.

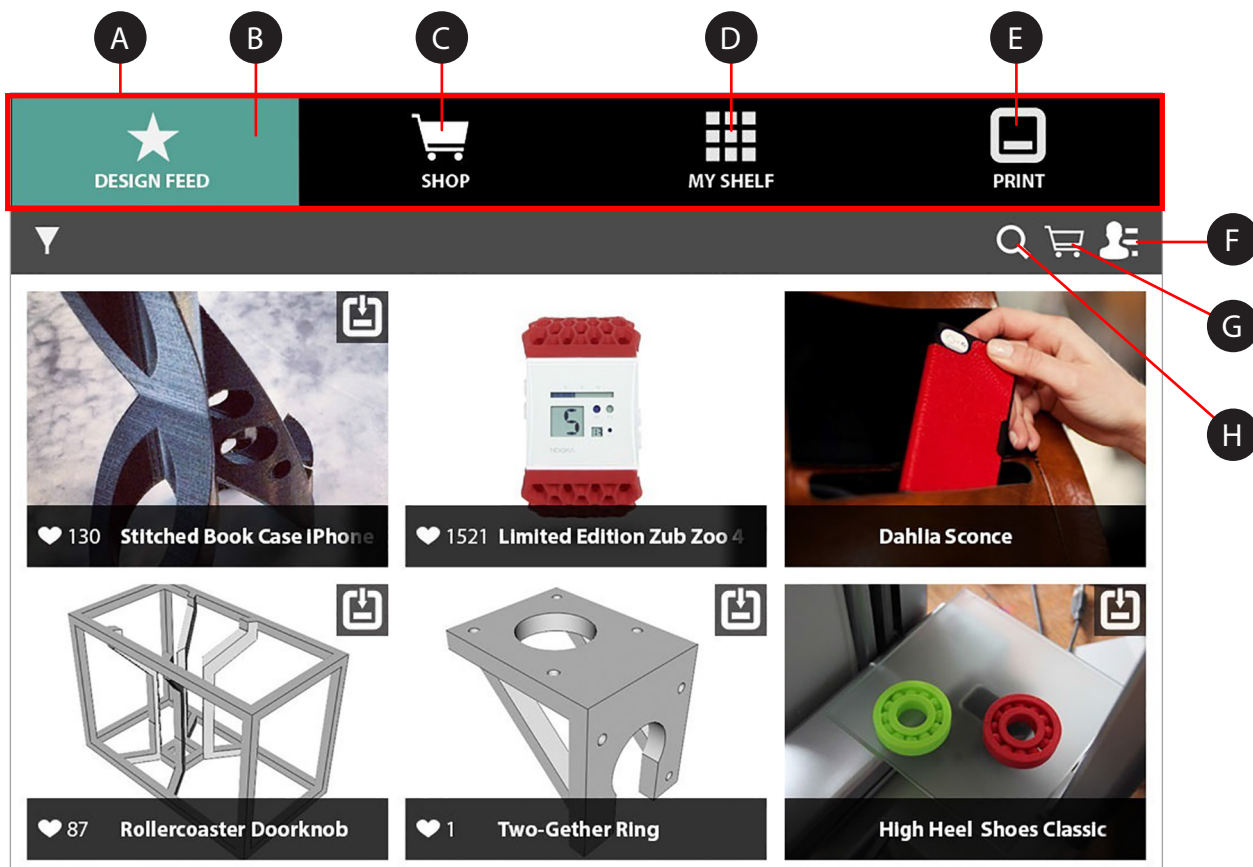


CUBIFY SOFTWARE OVERVIEW

Cubify at www.Cubify.com is the central hub for all things possible with the 3D printed lifestyle. Cubify offers everything from co-creation with favorite brands, a curated shopping experience centered around personalized fashion, décor, toys and more.

Cubify is an application for the Cube that can connect to your www.Cubify.com account. Users can find free creations or purchase other creations from a large number of available 3D models. Cubify imports 3D .stl files and readies them for printing with your Cube.

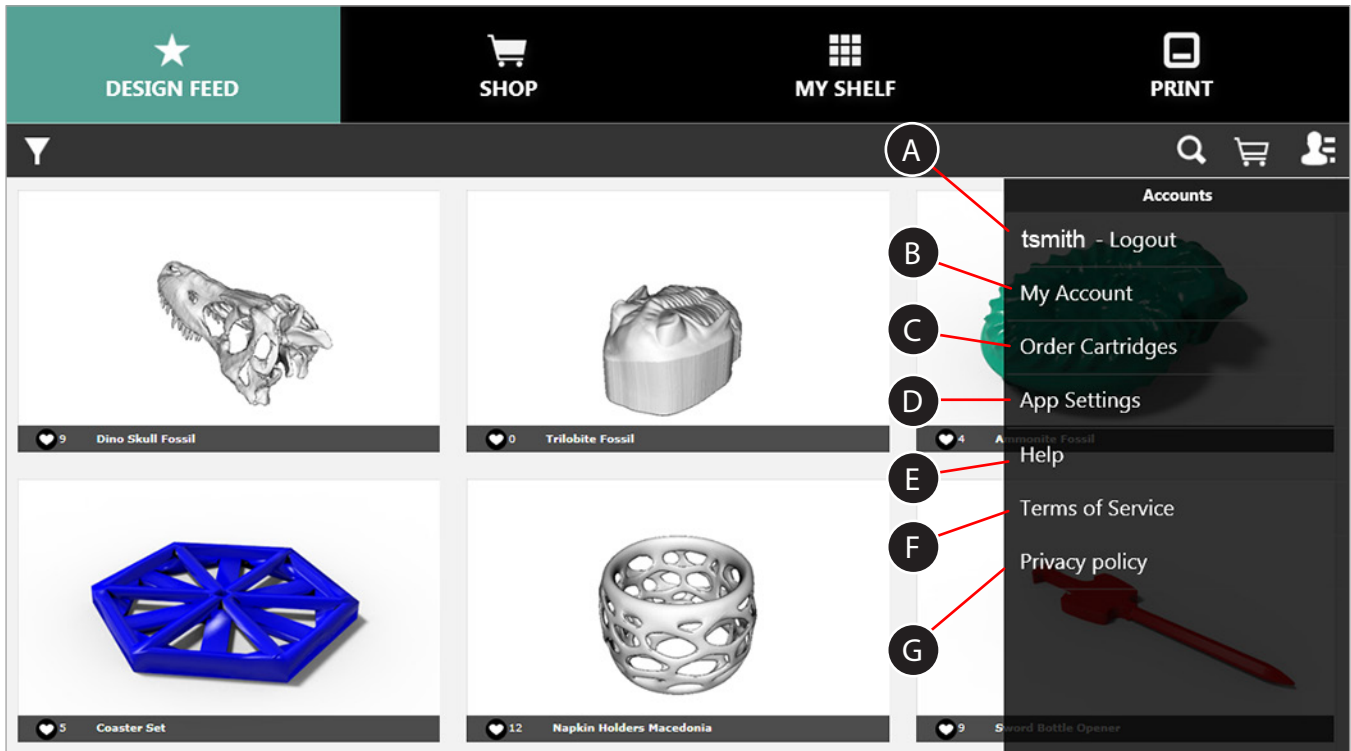
Cubify is available for Windows® and OS X® operating systems as well as Android® and iOS® mobile platforms. Desktop applications have more features than mobile applications but each version provides a robust channel to the 3D printing lifestyle. The following overview illustrates the desktop applications and some features may not be available on the mobile platforms.



- A Tool Ribbon** Tools used to access the print files from www.Cubify.com.
- B Design Feed** The location to select free or for purchase print creation files.
- C Shop** Purchase models or create your own custom model from online Cubify applications.
Your purchases or downloads can be stored on the Shelf. You can also store custom configurations of your creations. In addition, once you have activated your printer, you will find 25 free creations in My Shelf.
- D My Shelf**

- E Print** You may connect to your Cube on your wireless network and send the print file wirelessly. You may also specify colors and materials for printing.
- F Account Information** Manage your account settings, order cartridges, access the help menu and review the Terms of Service and Privacy Policy.
- G Cart** Review items stored in your cart.
- H Search** Search for creations.

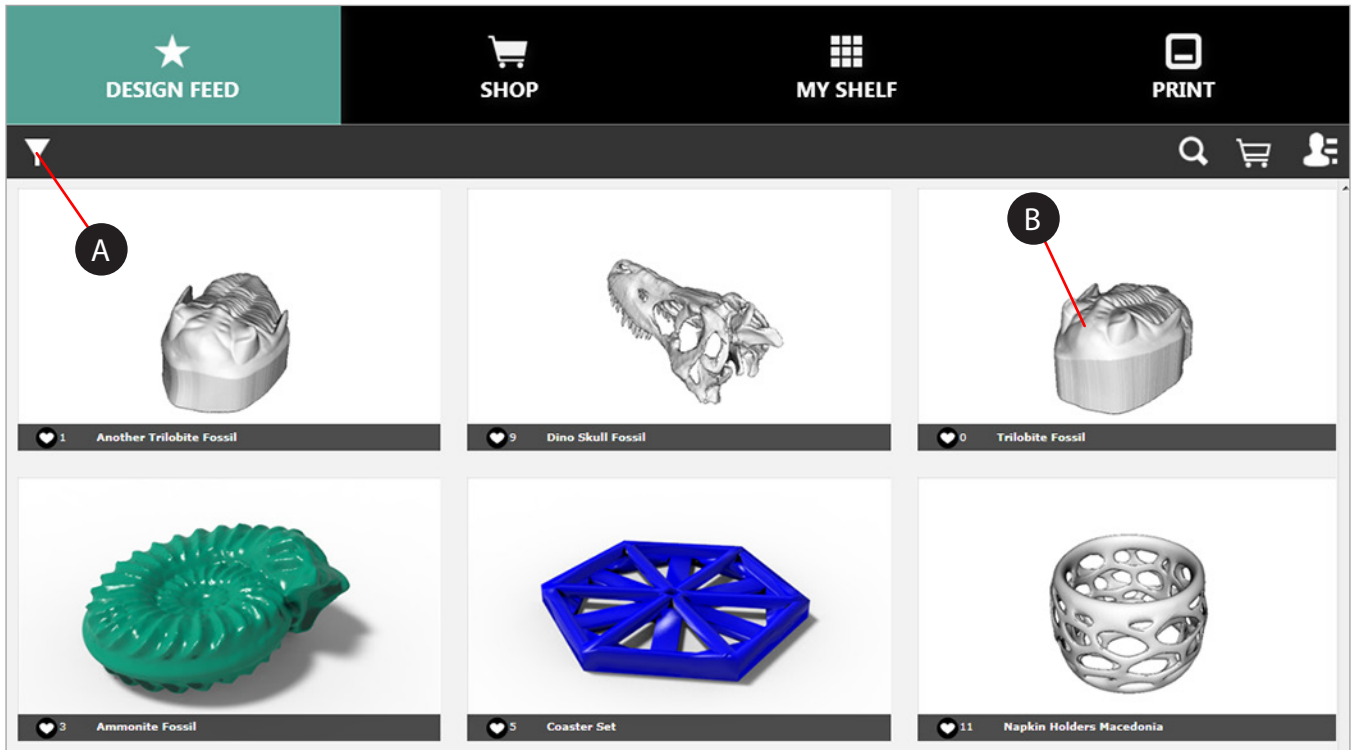
Account Settings



- A Logout** Select Logout to log out of the application.
- B My Account** Your account page on Cubify.com where you can find information about your orders
- C Order Cartridges** Order cartridges from Cubify.com through the Cubify application.
- D App Settings** Select your unit of measure to either inches or millimeters.
- E Help** Application documentation
- F Terms of Service** Read the Terms of Service
- G Privacy Policy** Read the Privacy Policy

Design Feed Tab

Design Feed is a resource to connect you with some of the most creative items available for the 3D printing lifestyle.



A Filter Narrow the choices to your preferences.

B Selection Select an item to learn more about it and to download it.



NOTE: Selecting the fossil (B) in the illustration above brings you to the page where you can save it to the Shelf. For some creations, you may select the option to have Cubify print it for you.



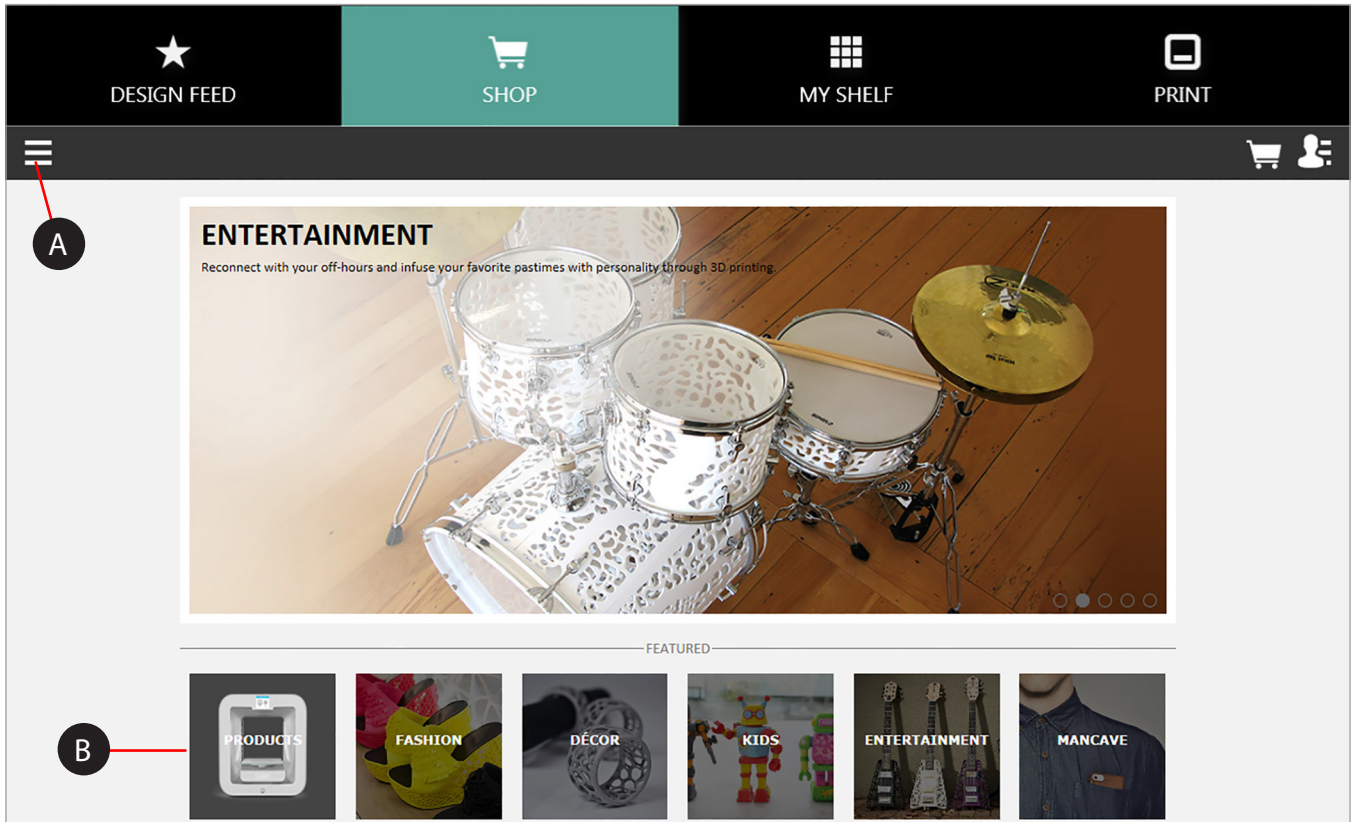
NOTE: Items with no Cube icon are 3D files that will need further processing by Cubify software..



NOTE: Not all models are free. To purchase a creation, select the option to [add to the cart](#). When ready, you can finish the transaction and download the model to your Shelf.

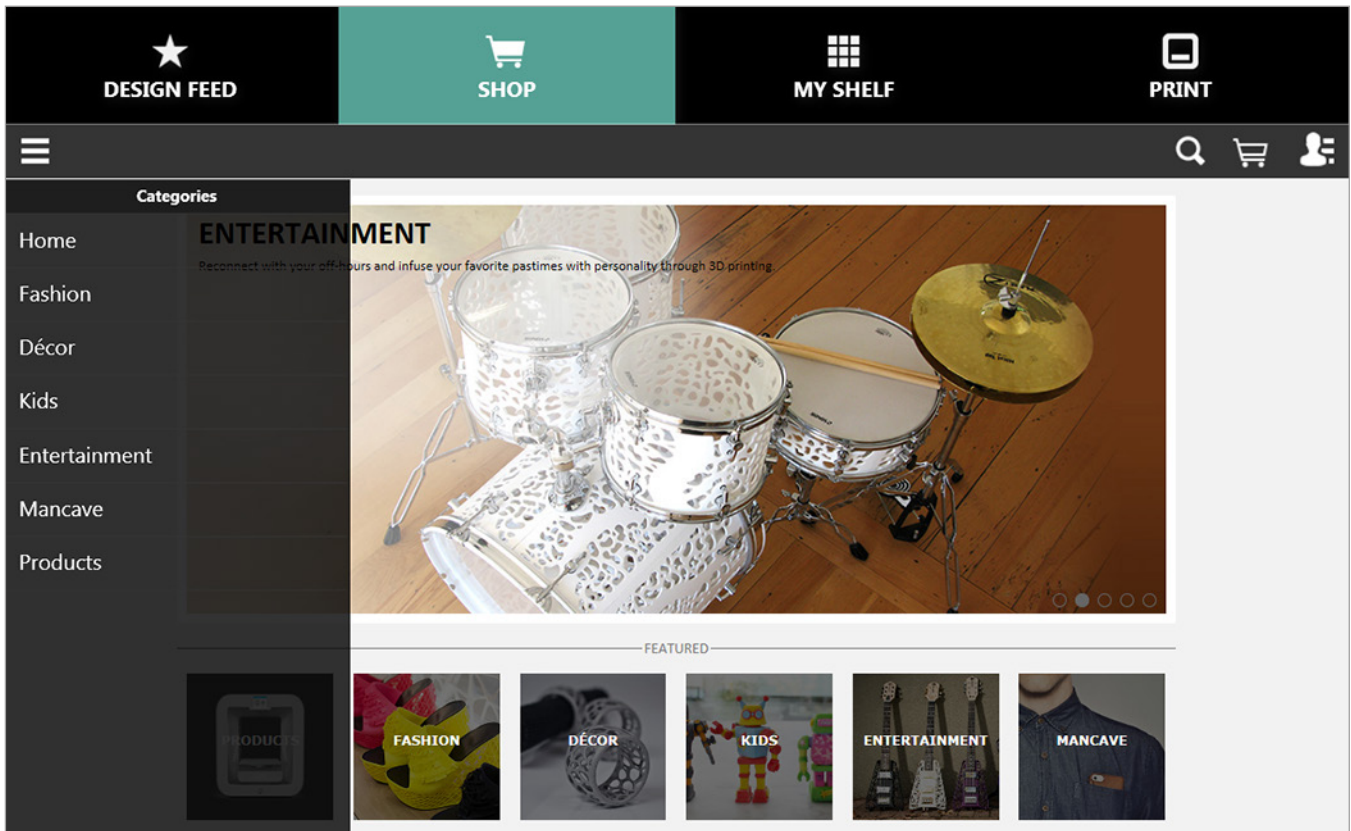
Shop Tab

The store is organized into several categories. Select a category from the Shop menu to view the available sub-categories. This allows for quicker access to your favorite design types.

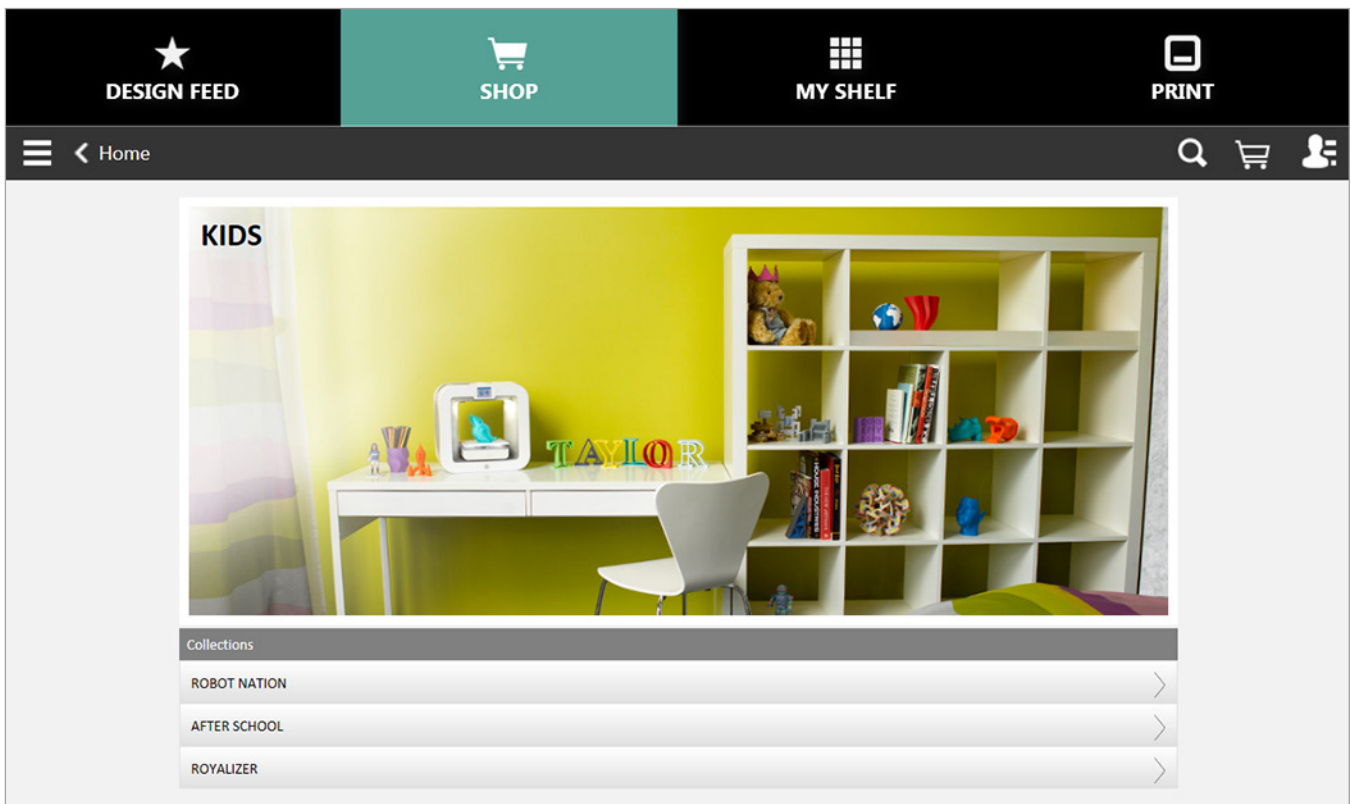


- A** **Category Dropdown** Select a category from a dropdown list.
- B** **Featured List** Select a category from a list.

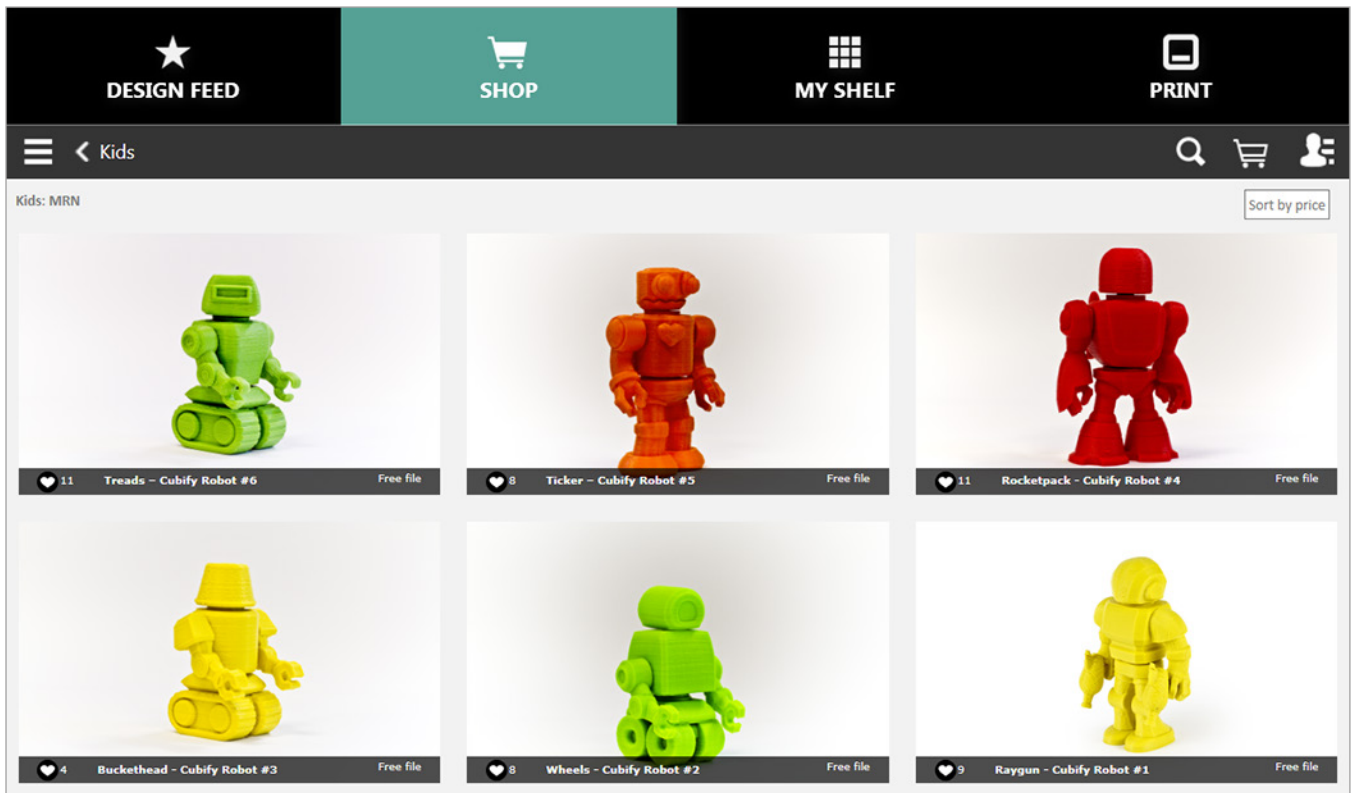
Select the category dropdown list to narrow your search. Categories are divided into product types and collections.



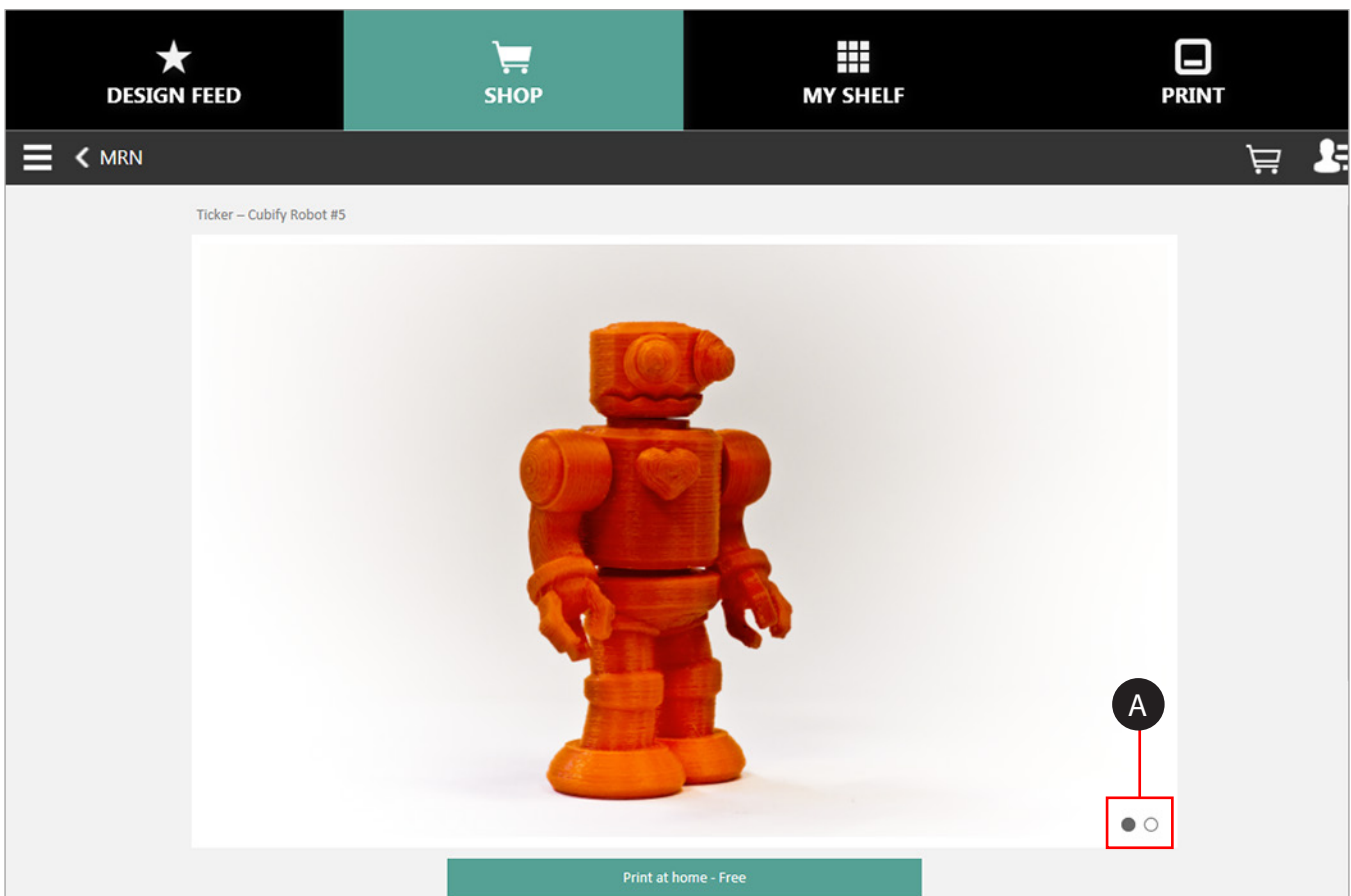
After selecting a category, you can select a collection or a type.



Select a creation from a collection.



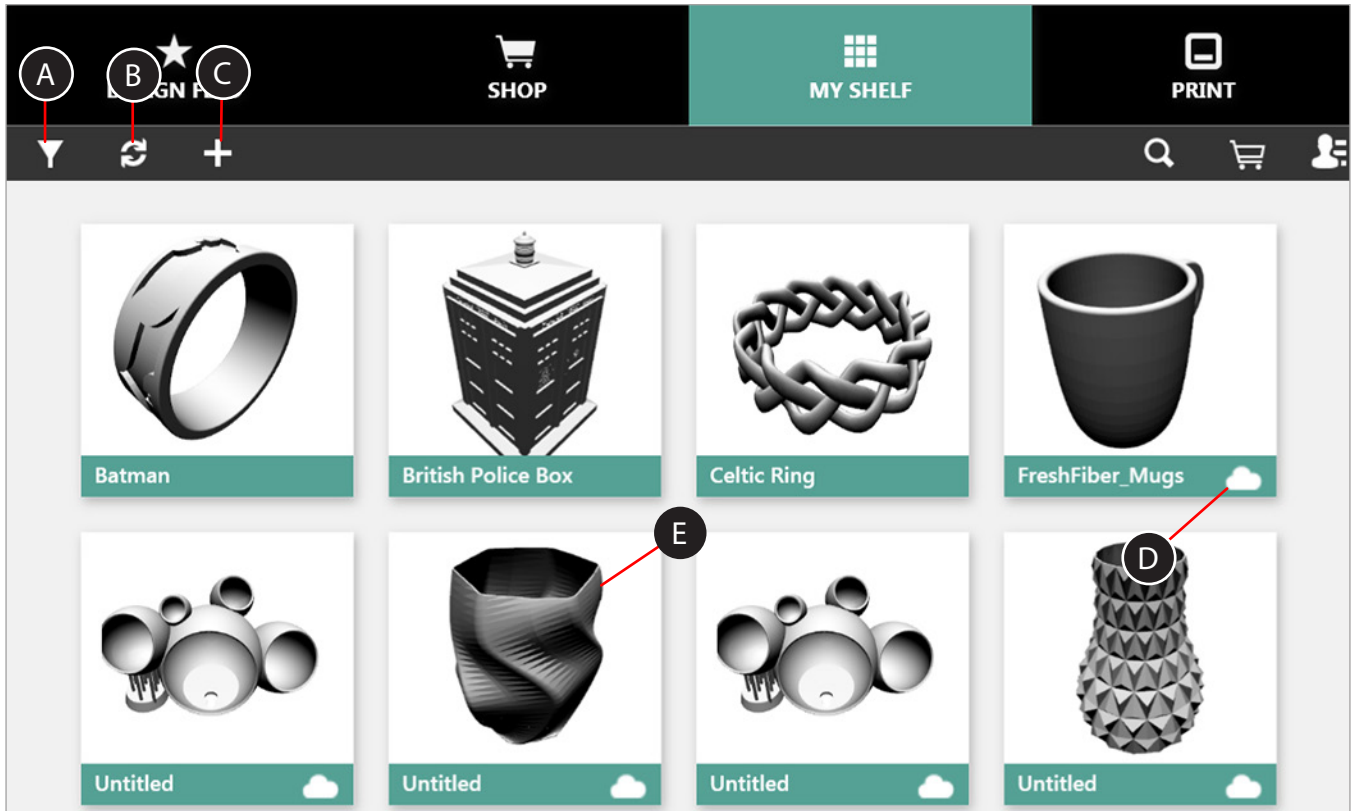
After selecting a creation, you can find more information about the item, purchase it, print it (free files only) or add it to your shelf. Some models have multiple views. Select the navigation buttons (A)* to see other views.



*Not an available feature for mobile applications.

My Shelf Tab

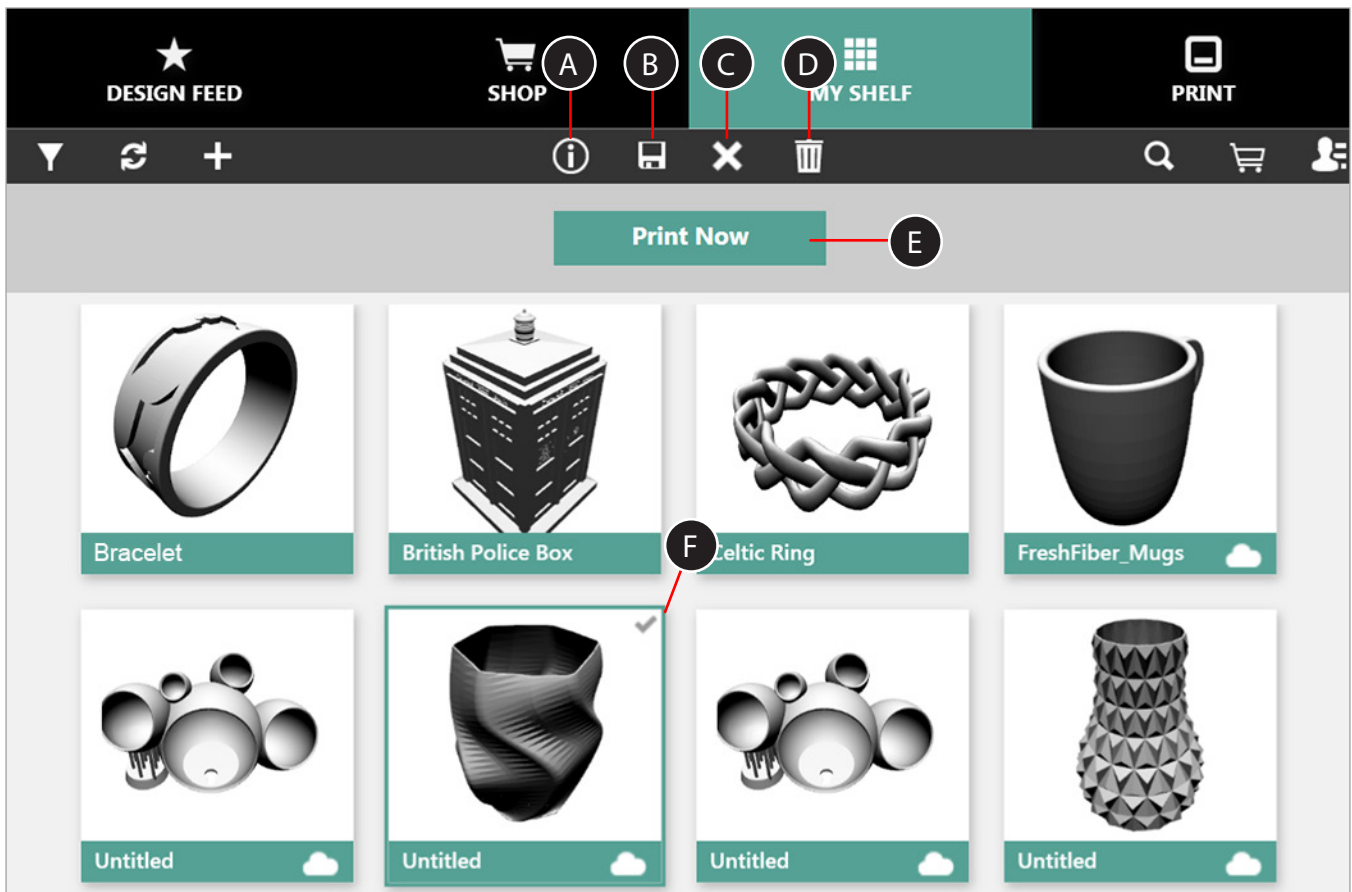
My Shelf is your personal storage place on Cubify.com where you can manage your creations. Once your printer has been activated, your 25 free creations can be found in My Shelf.



- A Filter** Sort the items in My Shelf by Name or Date. You may also filter your items by file type. 3D files include .STL files. Print files are .3DB files optimized and ready to print.
- B Refresh*** Refresh your application to ensure all of your content is current.
- C Add Files*** You can add items to your shelf.
- D Cloud Icon** The cloud icon indicates that the item is stored on Cubify.com. Items without the cloud icon may be stored on your device.
- E Item Selection** You can select an item to print.

*Not an available feature for mobile applications.

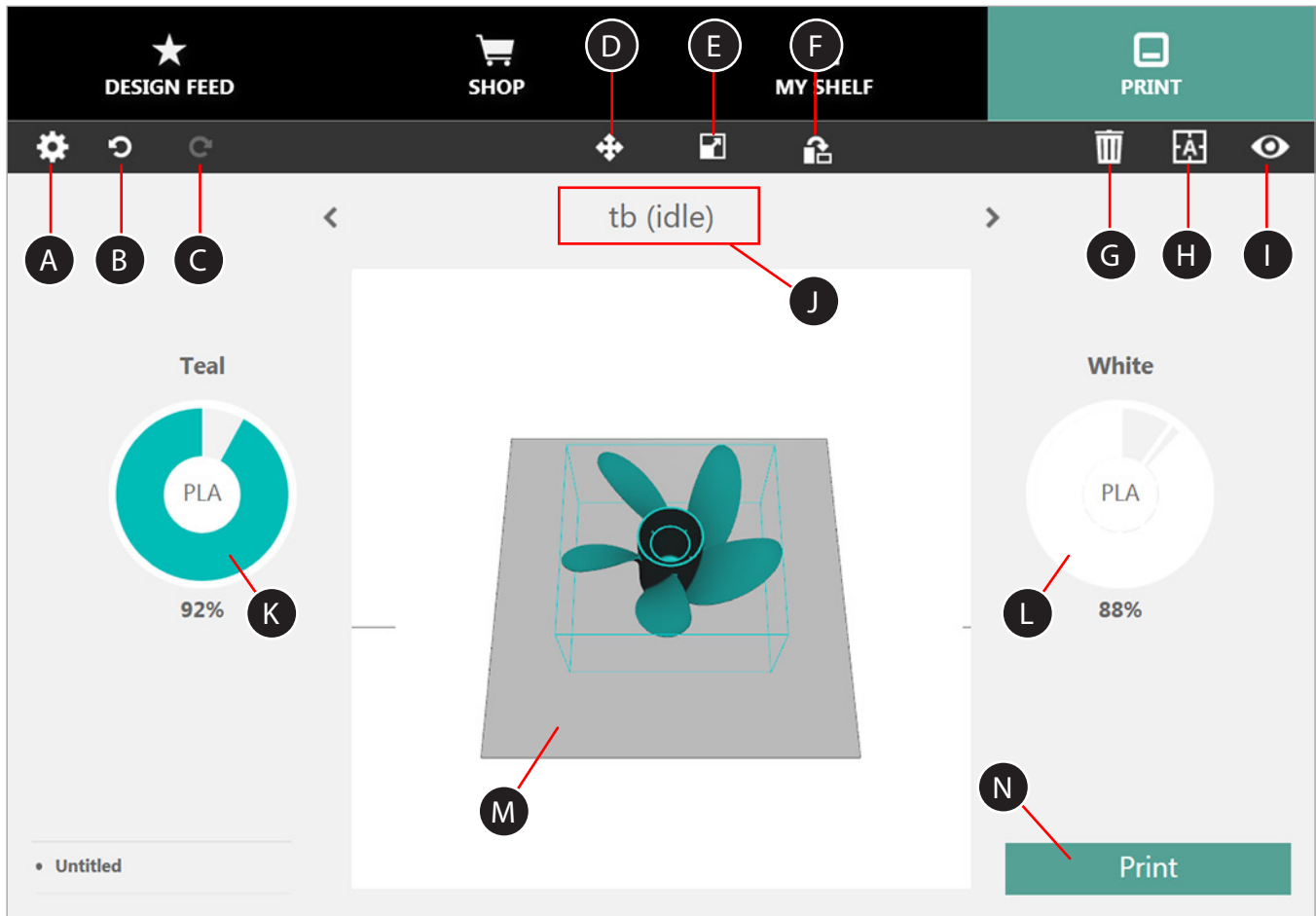
Item Selection



- A Information*** Select the information button to view information about the selected item.
- B Save*** Save the item to your device storage
- C Deselect*** Deselect a selected item
- D Remove*** Remove an item from My Shelf
- E Print Now** Select Print Now to prepare the item for printing.
- F Selected** The checkmark indicates that the item has been selected.

*Not an available feature for mobile applications.

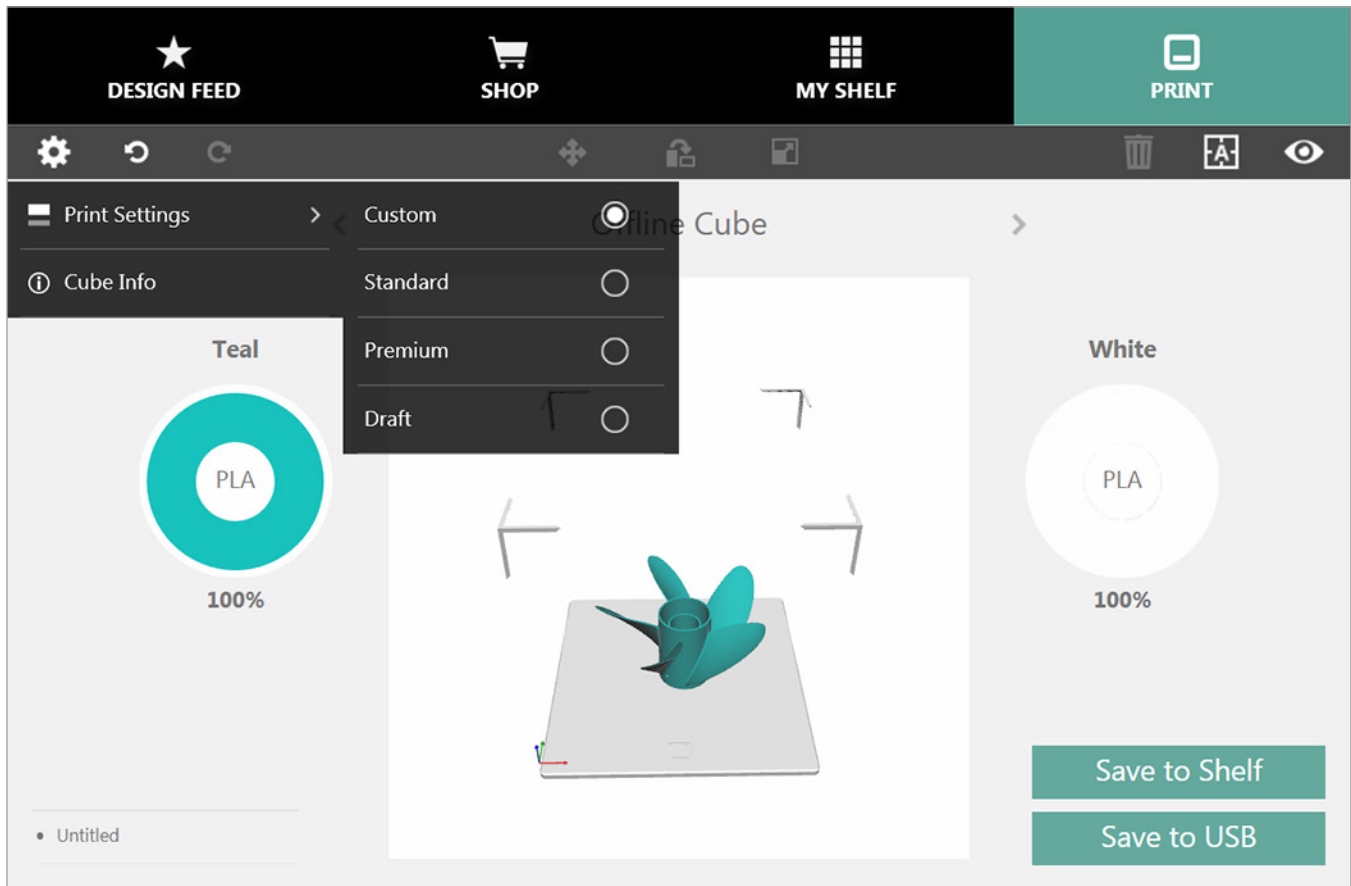
Print Tab



- | | | | | | |
|----------|----------------------|--|----------|------------------------|--|
| A | Settings | Change the print settings and view Cube Info | I | Change Views | Change the view of the model |
| B | Undo* | Undo your last action | J | Printer | The name of the printer connected to your network |
| C | Redo* | Redo your last action | K | Left Cartridge | Change the left cartridge color and material type of a non-networked printer |
| D | Move* | Move the model on the stage | L | Right Cartridge | Change the left cartridge color and material type of a non-networked printer |
| E | Scale* | Scale the model | M | Stage | A representation of the printer's print pad |
| F | Rotate* | Rotate the model on the stage | N | Print | Select print to send the print job to the printer |
| G | Remove Model* | Remove the model | | | |
| H | Center Model* | Center the model on the stage | | | |

*Not an available feature for mobile applications.

PRINT SETTINGS

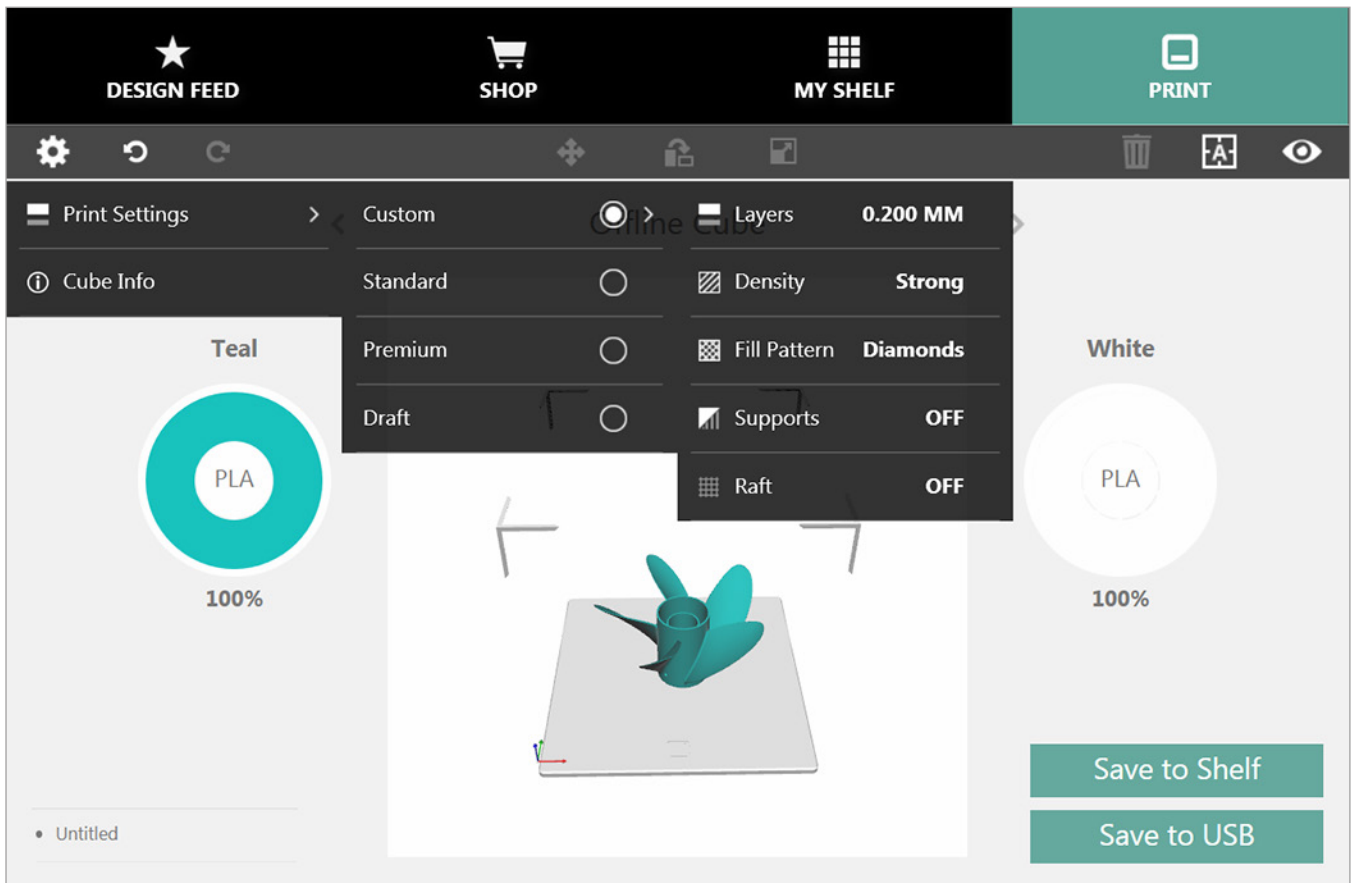


Print Settings allow you to set the parameters of your print and build them into your print file. There are four (4) different options for setting the print parameters.

- Custom:** Allows you to set the layer thickness, density, and fill pattern. You may also enable or disable supports and rafts.
- Standard:** A strong print that does not require fine details.
- Premium:** A strong print that requires fine details.
- Draft:** A print that does not require strength or fine details.

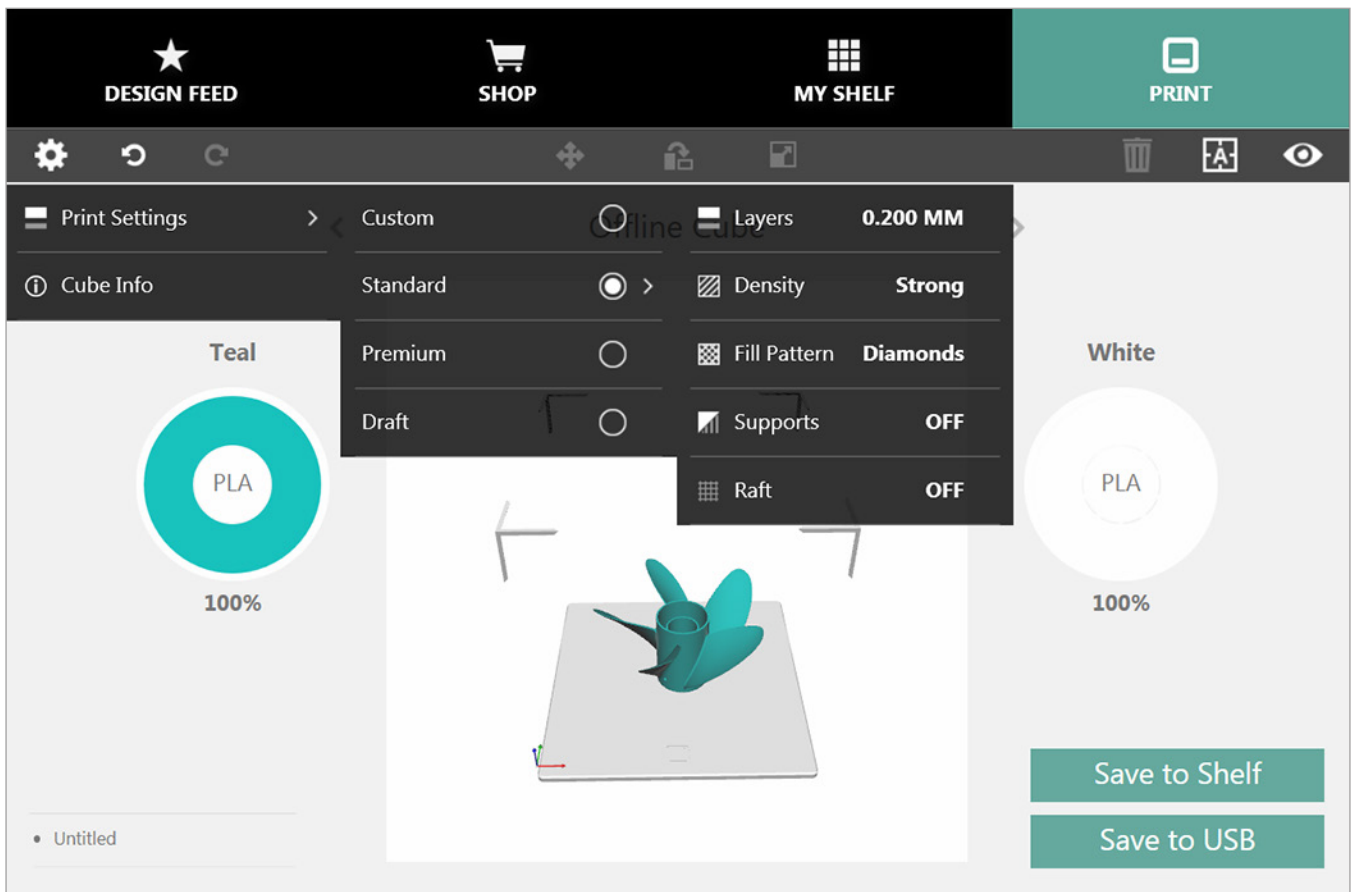
Layers	<ul style="list-style-type: none"> • 0.070 mm High quality prints • 0.200 mm Shorter print time
Density	<ul style="list-style-type: none"> • Hollow Short print times and low material use • Strong Stronger prints • Almost Solid High material use and almost solid prints
Fill Pattern	<ul style="list-style-type: none"> • Honeycomb Used for strong prints • Diamonds For general printing • Lines Shorter print time
Supports	<ul style="list-style-type: none"> • Supports are structures that are automatically printed under overhanging parts of your model.
Raft	<ul style="list-style-type: none"> • Rafts are printed during the first few layers to help the model adhere to the print pad.

Print Settings - Custom



- Layers:**
 - 0.070 mm
 - 0.200 mm
- Density:**
 - Hollow
 - Strong
 - Almost Solid
- Fill Pattern:**
 - Honeycomb
 - Diamonds
 - Lines
- Supports:**
 - On
 - Off
- Rafts:**
 - On
 - Off

Print Settings - Standard



Layers:	0.200 mm
Density:	Strong
Fill Pattern:	Diamonds
Supports:	Off
Rafts:	Off

Print Settings - Premium

The screenshot displays the 'Print Settings - Premium' interface. At the top, there are navigation tabs: DESIGN FEED, SHOP, MY SHELF, and PRINT. Below these are various icons for settings, refresh, and view. The main area is divided into sections for material selection (Teal and White PLA, both at 100%), a 3D model of a teal flower-like object on a build plate, and a settings menu. The settings menu is open, showing the following options:

- Print Settings > Custom
- Layers: 0.070 MM
- Density: Strong
- Fill Pattern: Diamonds
- Supports: OFF
- Raft: OFF

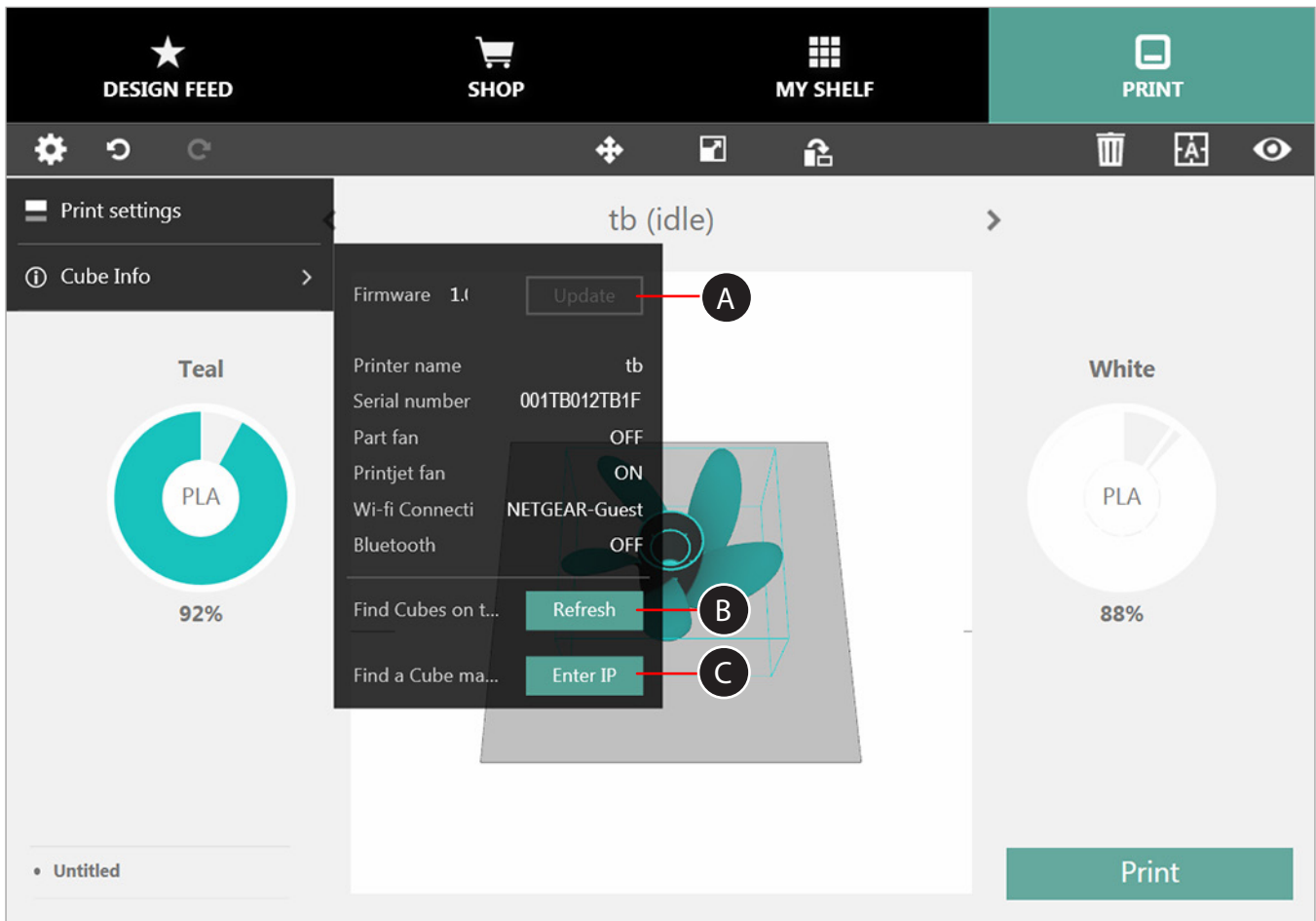
At the bottom right, there are two buttons: 'Save to Shelf' and 'Save to USB'. The bottom left corner shows 'Untitled'.

Layers:	0.070 mm
Density:	Strong
Fill Pattern:	Diamonds
Supports:	Off
Rafts:	Off

Print Settings - Draft

The screenshot displays the 'Print Settings - Draft' interface. At the top, there are navigation options: 'DESIGN FEED' (star icon), 'SHOP' (shopping cart icon), 'MY SHELF' (grid icon), and 'PRINT' (print icon). Below this is a toolbar with various icons for settings, undo, redo, zoom, and view. The main settings area is divided into two columns. The left column shows 'Print Settings' (Custom), 'Cube Info', and material selection (Teal PLA, 100%). The right column shows 'Layers' (0.200 MM), 'Density' (Hollow), 'Fill Pattern' (Lines), 'Supports' (OFF), and 'Raft' (OFF). A 3D model of a teal object is shown on a build plate. At the bottom right, there are buttons for 'Save to Shelf' and 'Save to USB'. The file name 'Untitled' is visible at the bottom left.

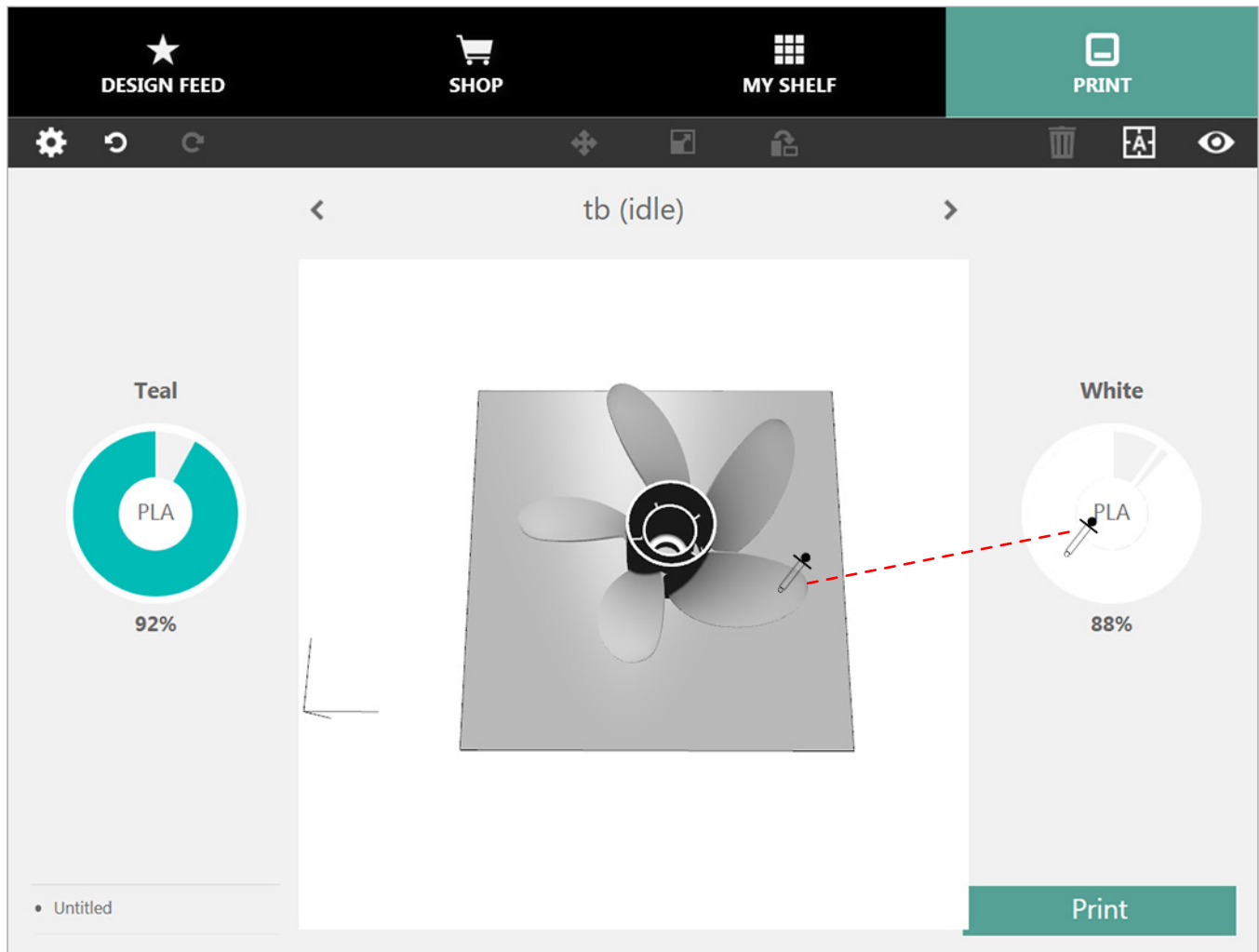
Layers:	0.200 mm
Density:	Hollow
Fill Pattern:	Lines
Supports:	Off
Rafts:	Off



- A Update Firmware** If new firmware is available for your connected printer, select Update.
- B Refresh** Find Cubes on your network
- C Enter IP** Find a Cube manually by entering an IP address

Color The Model

Changing the color of the model is easy. Select the color wheel and drag the color to the part you want to color. For models with multiple parts, select and drag a color to the part of the model you want to color.



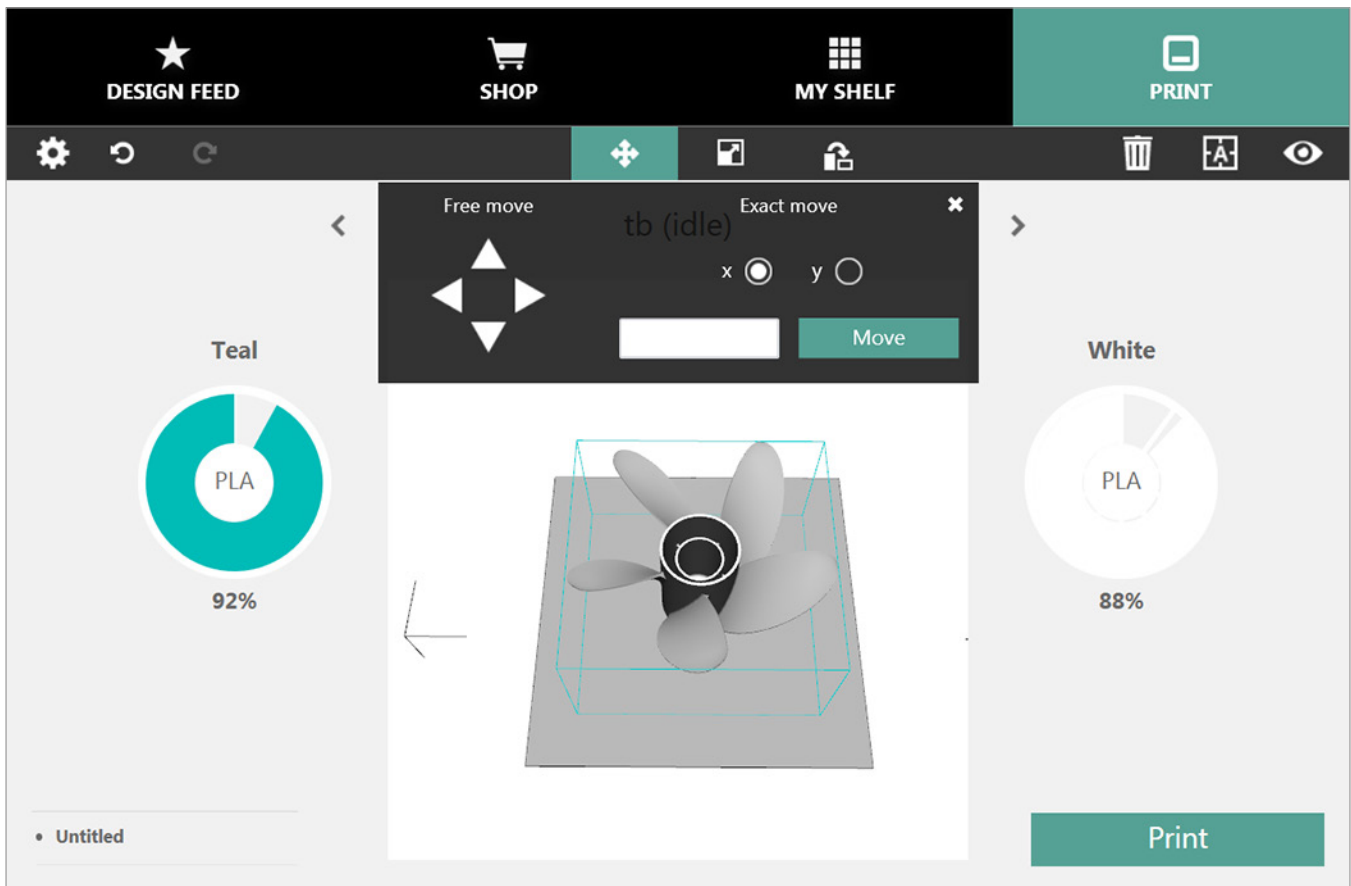
For mobile applications, press and hold the color wheel and then drag it to the part you want to color. For models with multiple parts, press, hold and drag the color wheel to the part of the model you want to color.

Move Tool

The Move tool* provides a way to position the model on the stage. This is especially helpful when printing more than one model.

To move the model, select the model and then select the Move tool. You can choose to freely move the model by selecting the part and dragging it across the stage or you can select an arrow on the Free Move section of the Move toolbar. Precision movements can be made by entering a value in the Exact Move field, selecting the X-axis or Y-axis, and selecting Move.

When finished, close the Move toolbar and select the Move button to deselect it.

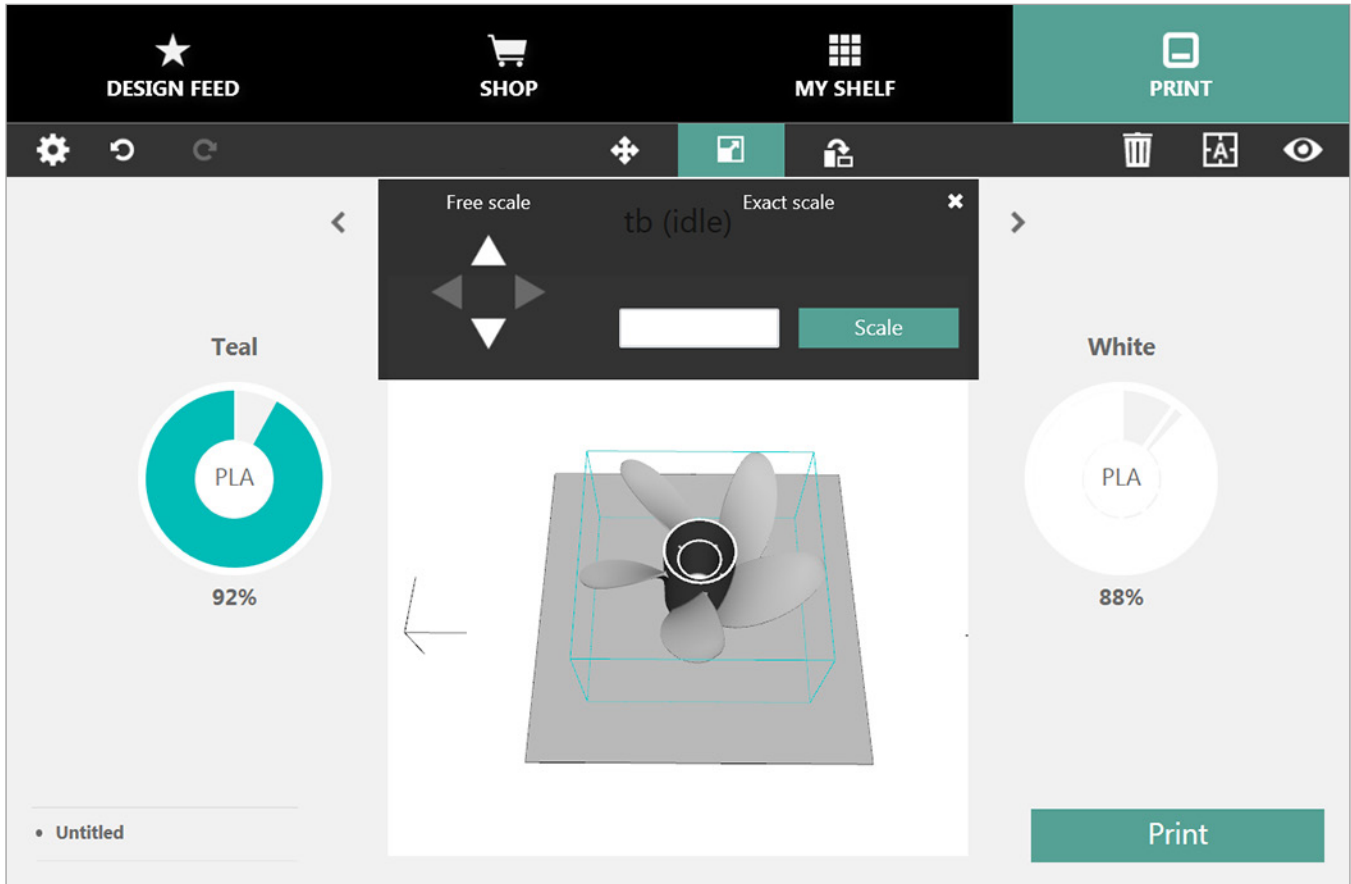


*Not an available feature for mobile applications.

Scale Tool

The Scale tool* provides a way to increase or decrease the size of the model. To scale the model, select the model and select the Scale tool. For free scale, select the up arrow to increase the size or the down arrow to decrease the size. You can also enter a percentage value in the Exact Scale field and select scale. A positive value increases the size of the model. A negative value decreases the size of the model.

When finished, close the Scale tool and select the Scale button to deselect it.

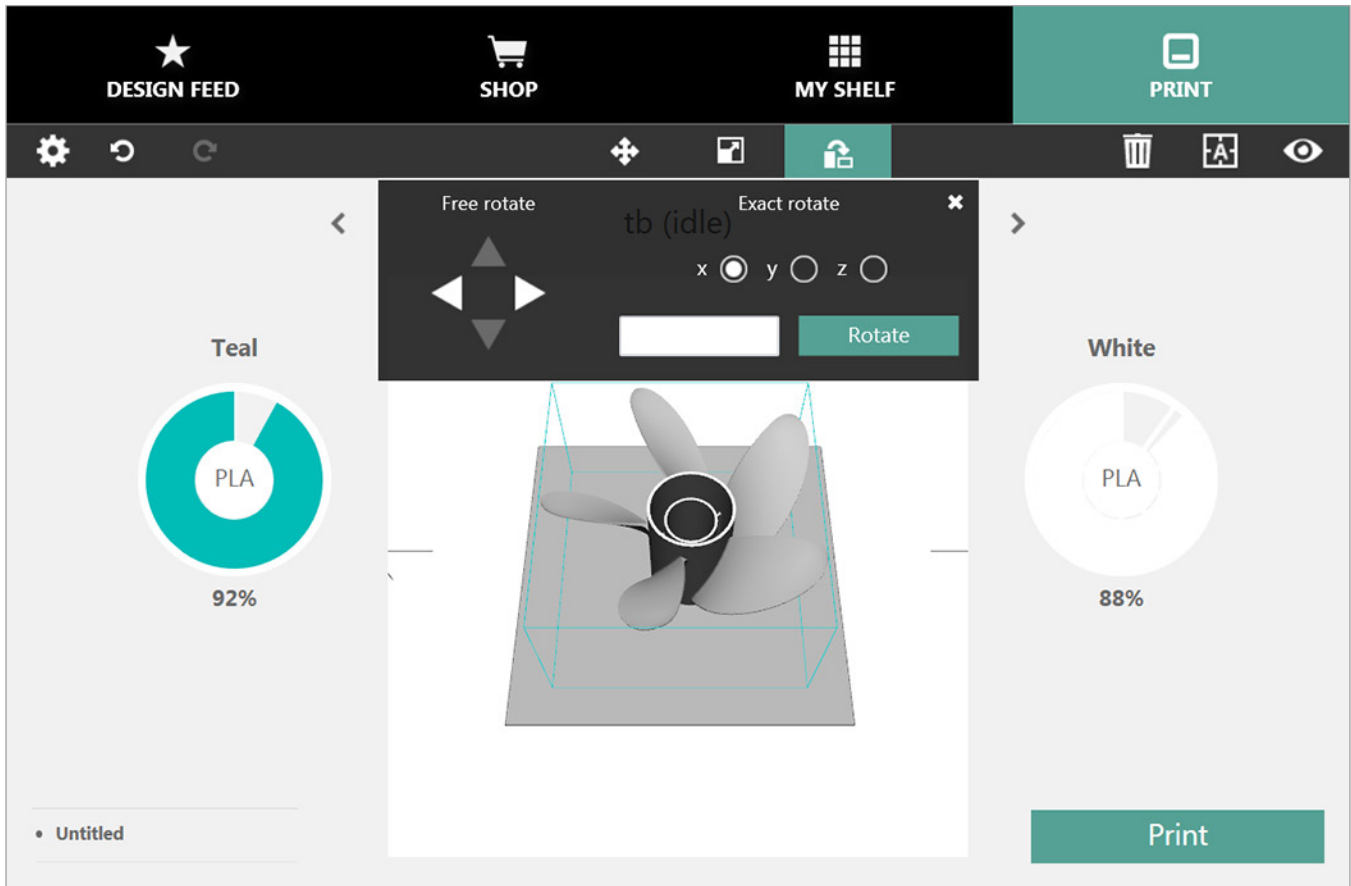


*Not an available feature for mobile applications.

Rotate Tool

To rotate the model on the stage, select the part and then select the Rotate tool*. To use the Free rotate option, select the X-axis, Y-axis, or Z-axis and then select either the right or left arrow. You can also rotate the model by selecting an axis and entering a value in the Exact Rotate field. Select Rotate to rotate the model to the specified amount.

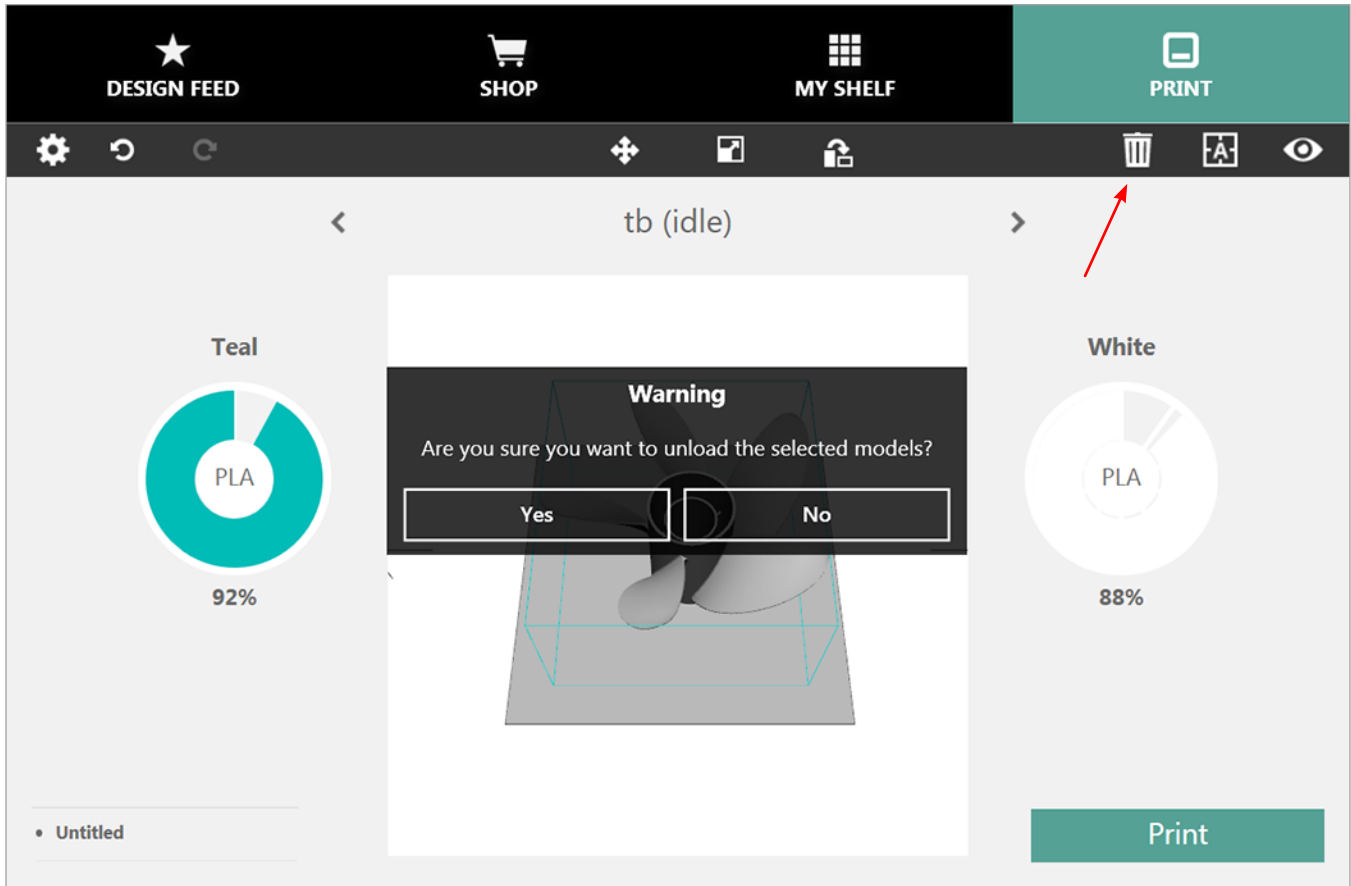
When finished, close the Rotate tool and select the Rotate button to deselect it.



*Not an available feature for mobile applications.

Remove Model Tool

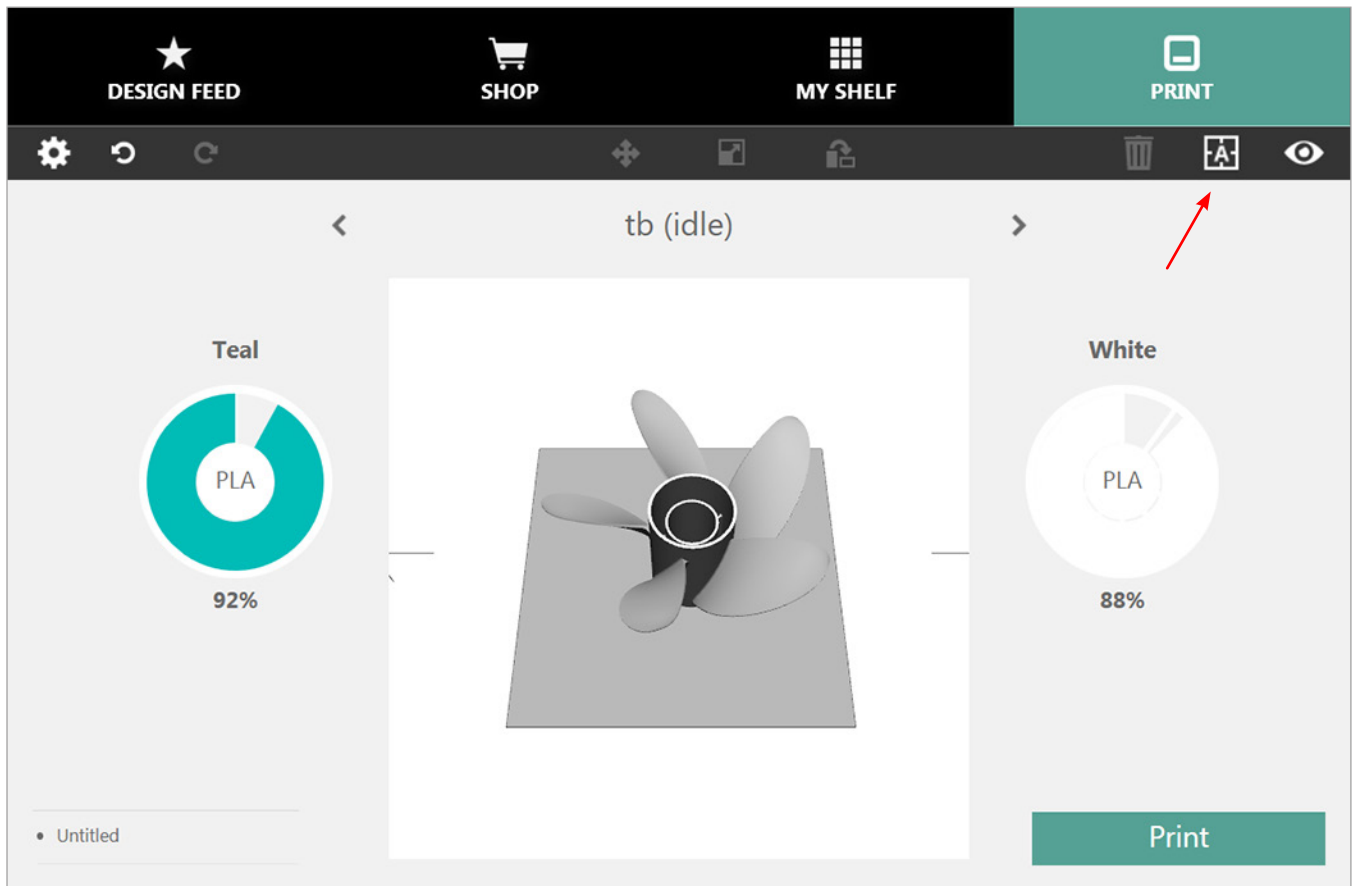
To remove the model from the stage, select the Remove Model* button. Select **Yes** to confirm your decision. You can find the model again by selecting **My Shelf**.



*Not an available feature for mobile applications.

Center Model Tool

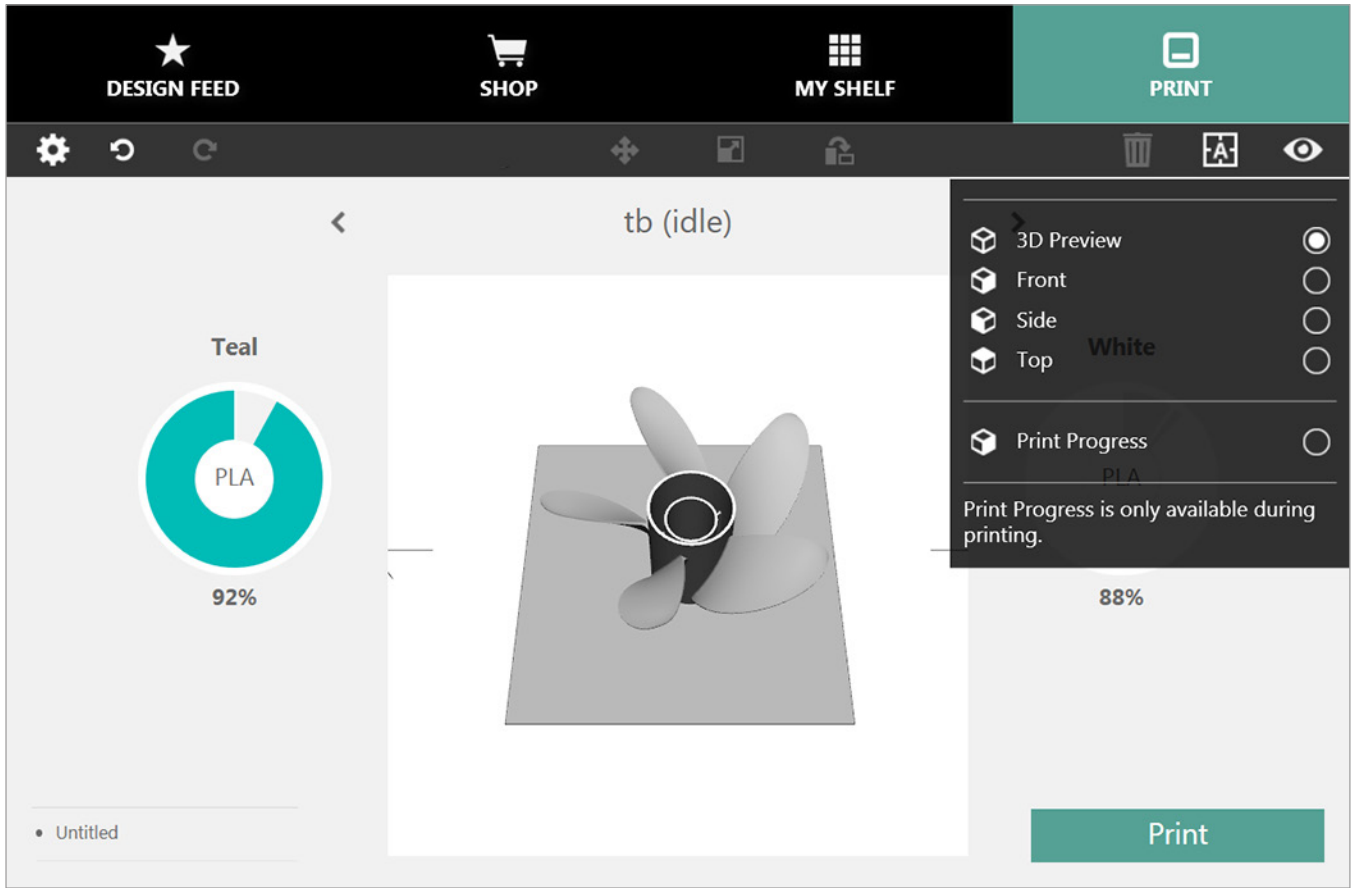
Select the Center Model* button to center the model on the stage.



*Not an available feature for mobile applications.

Change Views

Select Change Views to view the model from preset angles.



PRINTING A MODEL VIA WIRELESS CONNECTION

Printing From A Desktop Application



NOTE: To print a file, ensure the software application and the printer are connected on the same wireless network.

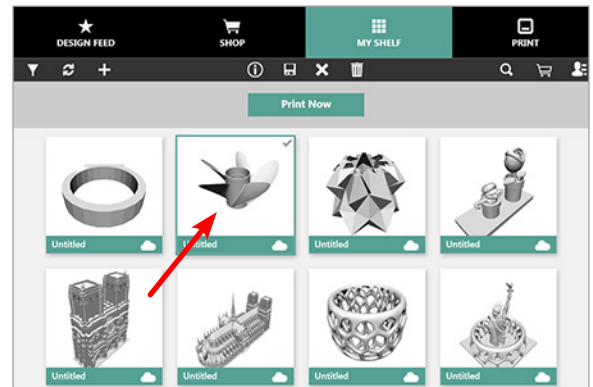


NOTE: Printing from a wireless network may take more time than printing from a mass storage device.

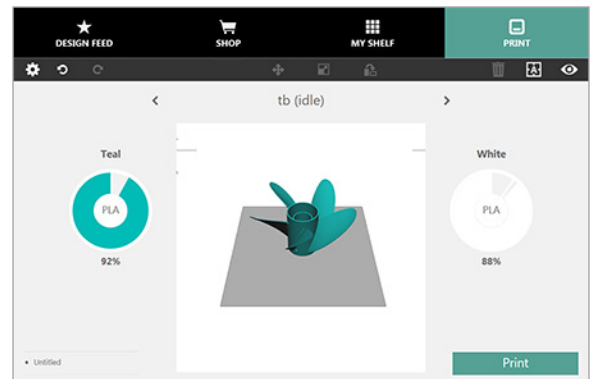
The Cubify application includes useful tools to place a creation in the optimum position for printing. The model can be moved or rotated using a mouse.

- Zoom In/Out:** Rotate the mouse wheel in either direction
- Move the Stage:** Press and hold the mouse wheel and drag the mouse
- Rotate the Stage:** Right-click and drag the mouse to rotate the stage

1. Select an item from My Shelf and select **Print Now**.



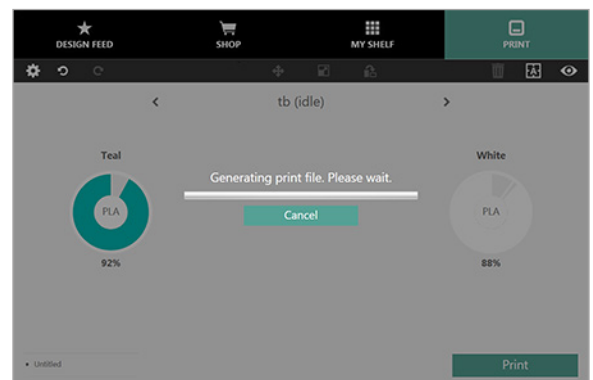
2. Drag a color wheel to the model to color the part.



3. Scale and position the model and select **Print**.

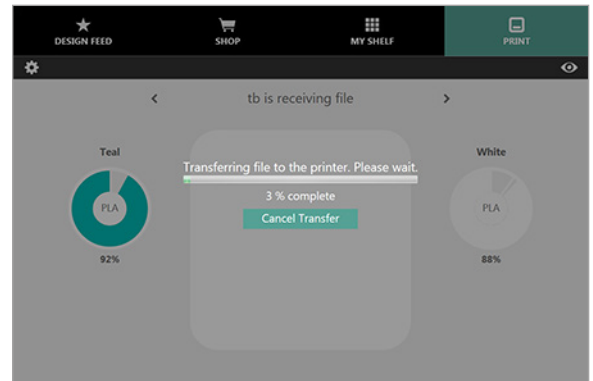


NOTE: Cubify will generate a print file.

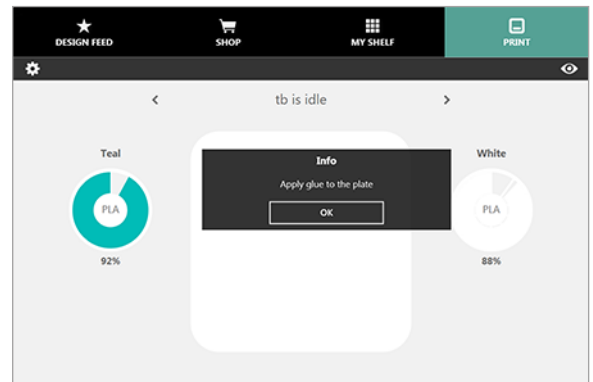




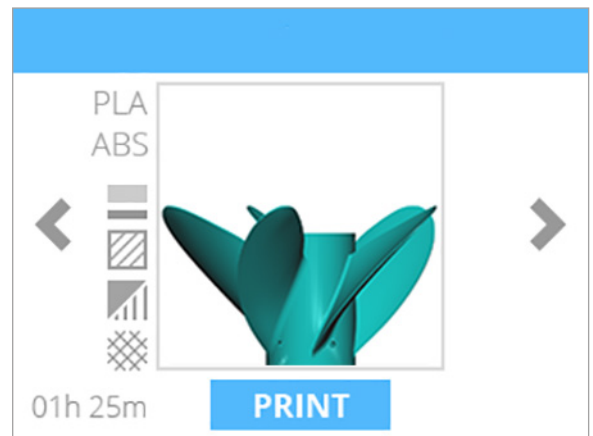
NOTE: Cubify will transfer the file to the printer.



4. Apply two thin layers of glue to the print pad and select **OK**.



5. Select **PRINT**.



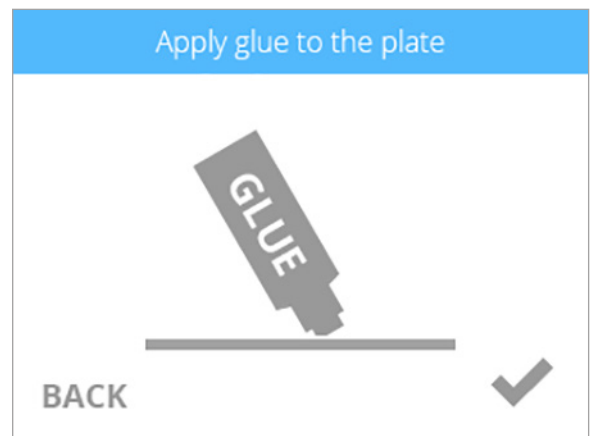
6. Apply two thin layers of Cube Glue to the print pad. Select the **checkmark** to continue.



NOTE: Ensure the glue has dried before printing.

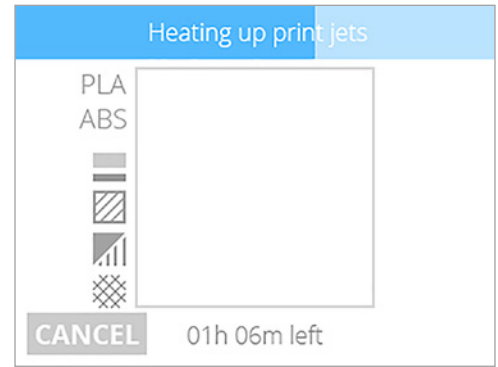


NOTE: To ensure proper adhesion, the glue area should be larger than the base of your printed creation.

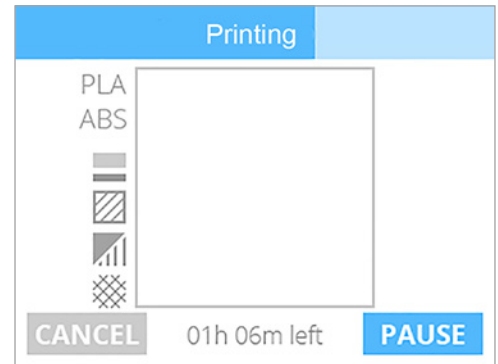




NOTE: The print jets will begin to heat to operating temperature.



NOTE: The printer will begin to print.



7. When the printer has finished printing, select the checkmark to continue.



NOTE: Follow the steps in the section titled **Finishing Your Creation**.



Printing From A Mobile Application

Both Android and iOS are similar in function but the layout may have some differences.



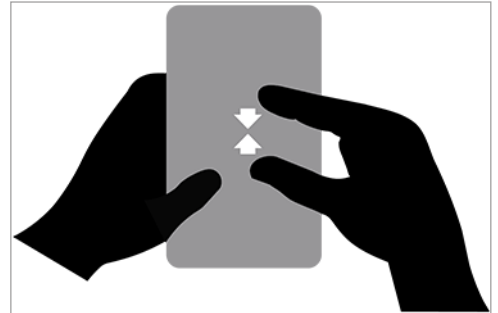
NOTE: To print a file, ensure the mobile device and the printer are connected on the same wireless network.



NOTE: Printing from a wireless network may take more time than printing from a mass storage device.

The model view can be changed by using the following gestures:

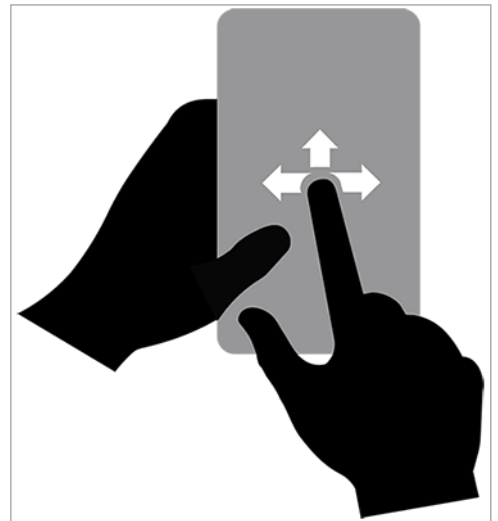
Zoom Out:



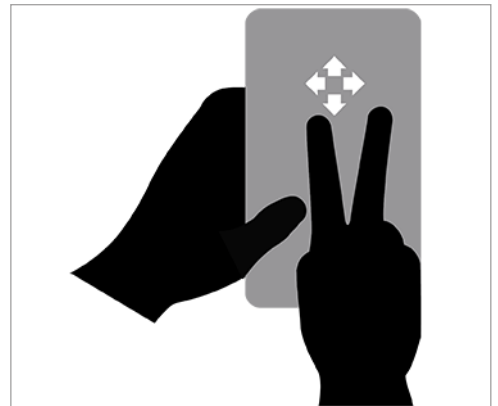
Zoom In:



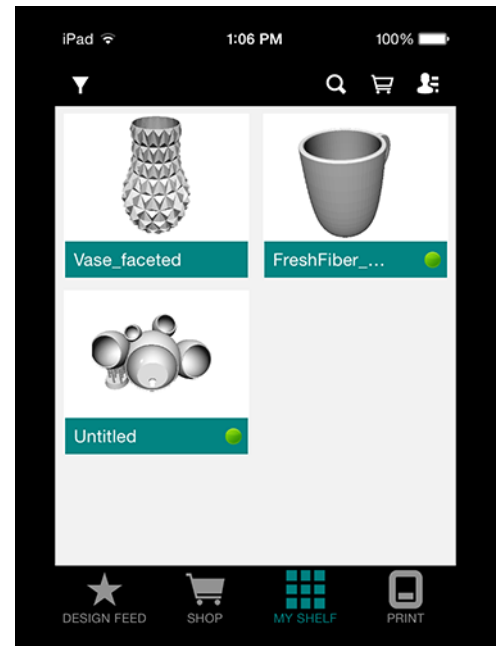
Rotate the Stage:



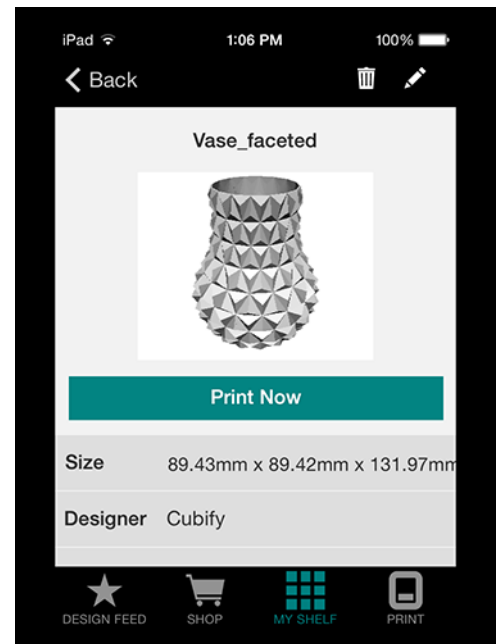
Move Model:



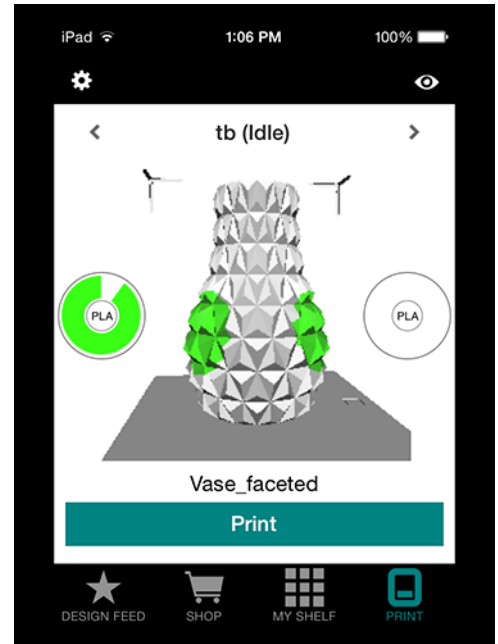
1. Select an item from My Shelf.



2. Select **Print Now**.



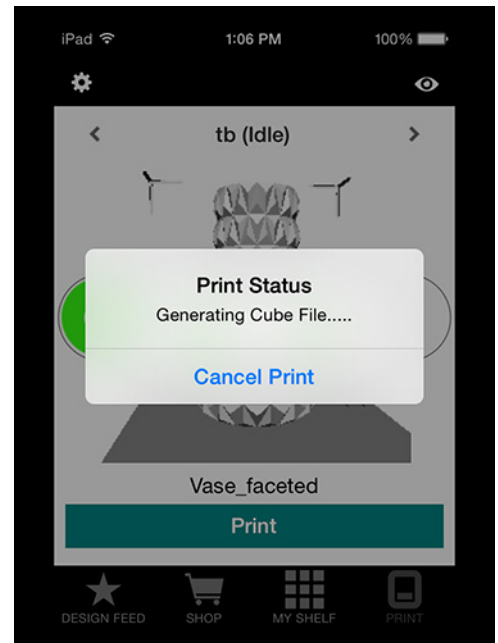
3. Press, hold and drag a color wheel to the model to change the color.



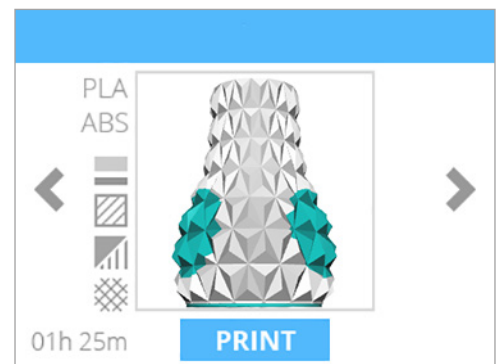
4. Select **Print**.



NOTE: The printer will generate a Cube file and then transfer it to the printer using the wireless network..



5. Select **Print**.



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



NOTE: Ensure the glue has dried before printing.



NOTE: To ensure proper adhesion, the glue area should be larger than the base of your printed creation.



NOTE: The print jets will begin to heat to operating temperature.

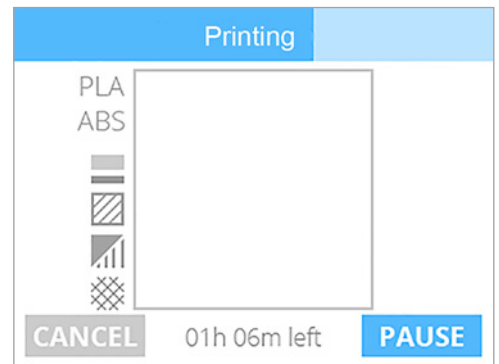
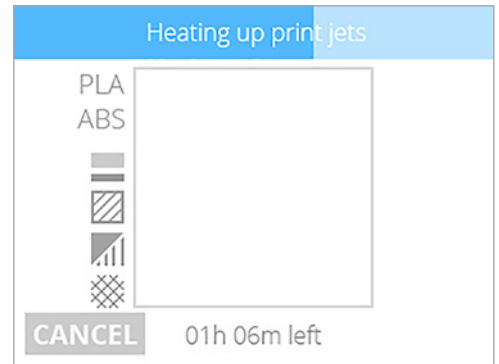
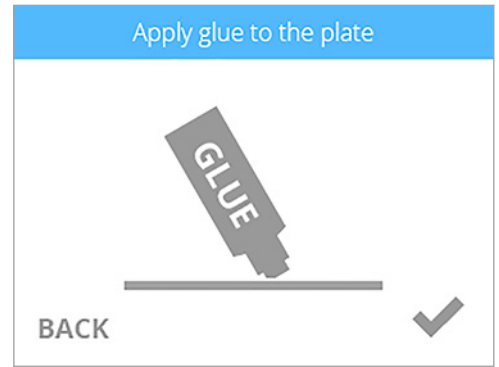


NOTE: The printer will begin to print.

7. When the printer has finished printing, select the checkmark to continue.



NOTE: Follow the steps in the section titled **Finishing Your Creation**.



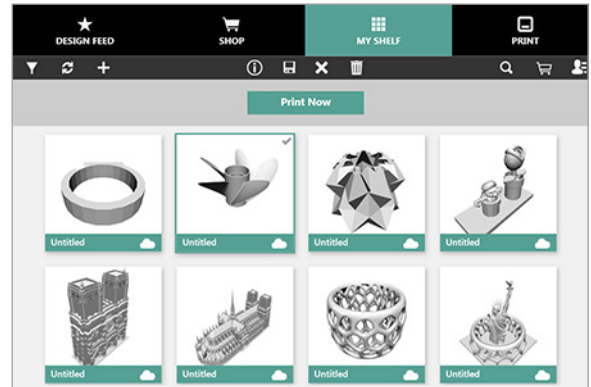
SAVING A MODEL TO A MASS STORAGE DEVICE

Desktop Application

For printers not connected to a wireless network, you can save Cubify models to a mass storage device and then insert the device into the USB port on the printer.

- Pan/Zoom:** Rotate the mouse wheel in either direction
Move the Stage: Press and hold the mouse wheel and drag the mouse
Rotate the Stage: Right-click and drag the mouse to rotate the stage

1. Select an item from My Shelf and select **Print Now**.



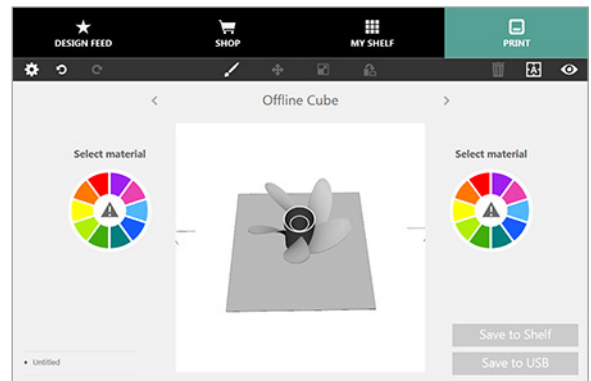
2. Select a color wheel to set a color for your model.



NOTE: Select a color and material type that have been installed to the printer.



NOTE: The color for both color wheels is set the same way.



3. Select a color and then select **Set** to continue.

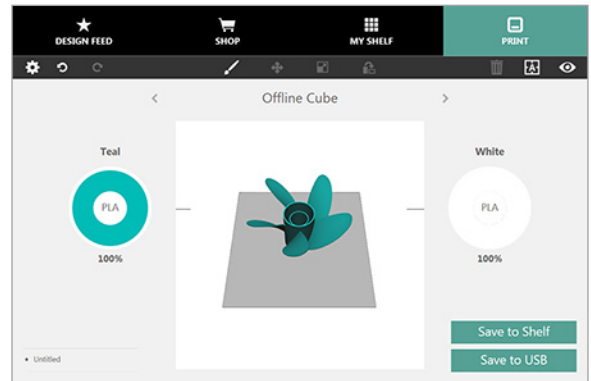


4. Color, scale and position the model on the stage.

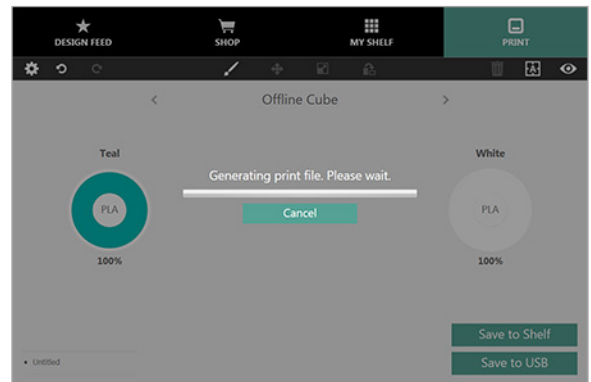
5. Select **Save to USB**.



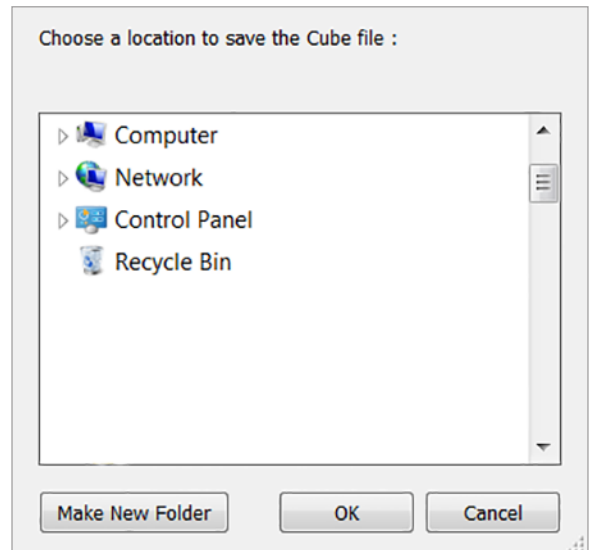
NOTE: Selecting **Save to Shelf** will save the print file to My Shelf. The original .STL file will remain there as well.



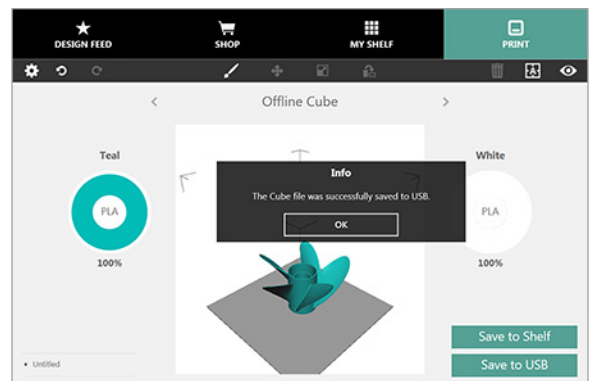
NOTE: Cubify will generate a print file.



6. Once the file has been prepared, browse to the connected mass storage device and save it in the root directory. Select **OK**.



7. Select **OK**.



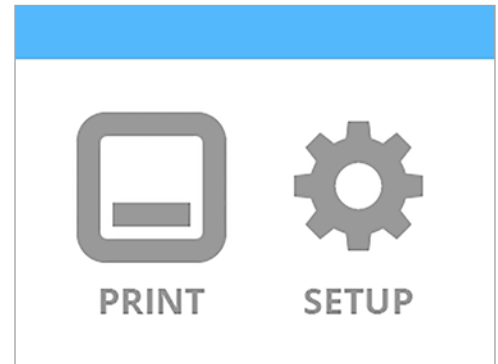
8. Refer to the section titled **Printing Your Creation** for information about printing from a mass storage device.

REPLACING A MATERIAL CARTRIDGE

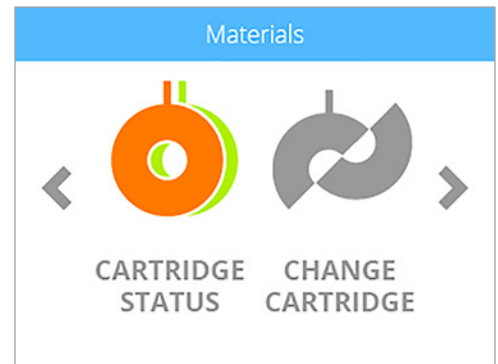


Caution: Material cartridges should only be replaced by performing the following procedure. Replacing the cartridge without using the printer menu can damage the printer or print jet nozzles and void the manufacturer's warranty.

1. Select **SETUP**.



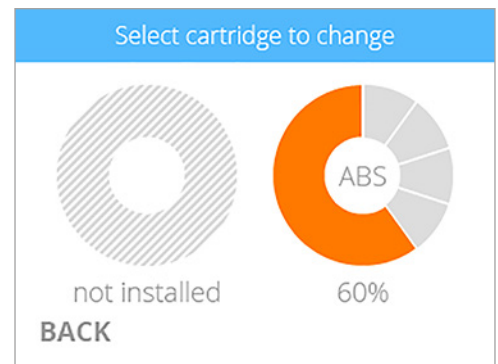
2. Select **CHANGE CARTRIDGE**.



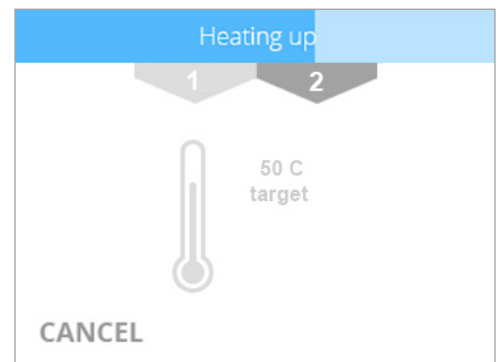
3. Select the material cartridge to change.



NOTE: This procedure illustrates changing the right cartridge. The same concept applies to the left side.



NOTE: The print jet will begin to heat.



4. Remove the right side material cartridge. Select the **checkmark** to continue.



NOTE: Press the two cartridge tabs inward to release the cartridge from the printer.

5. Rotate the material cartridge print jet counter-clockwise and remove the print jet from the printer. Select the **checkmark** to continue.

6. Insert the material cartridge dongle from the replacement cartridge into the printer and rotate the cable to the right until the dots align. Select the **checkmark** to continue.



NOTE: As the dongle is rotating, ensure the dongle cord is tucked under the top of the printer cover.

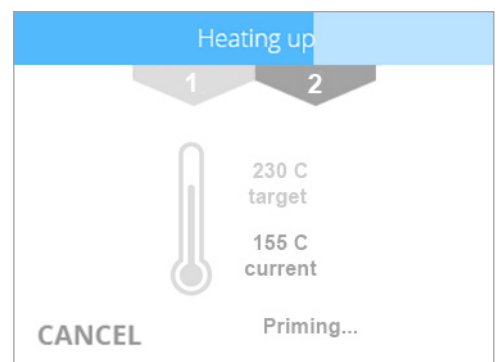
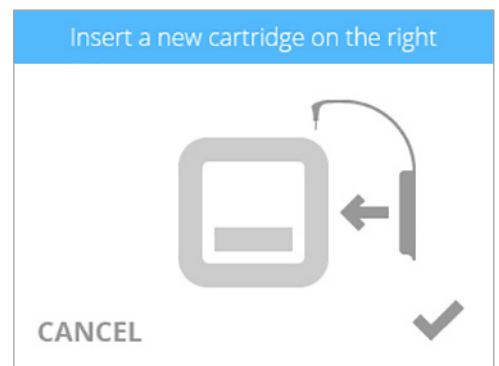
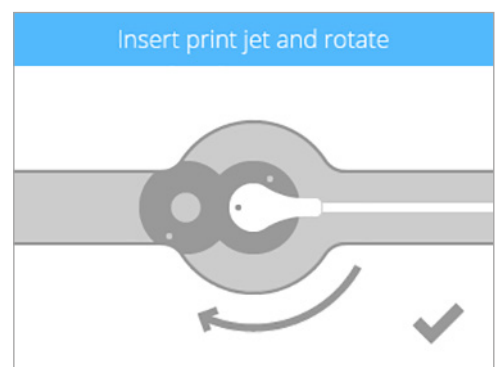
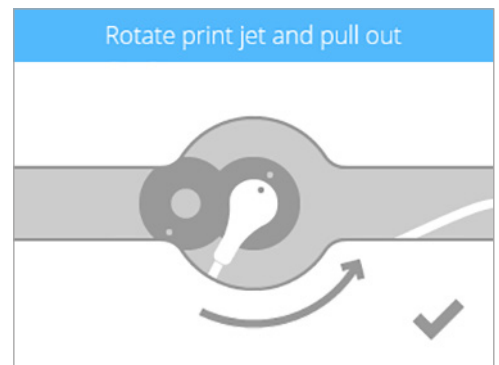
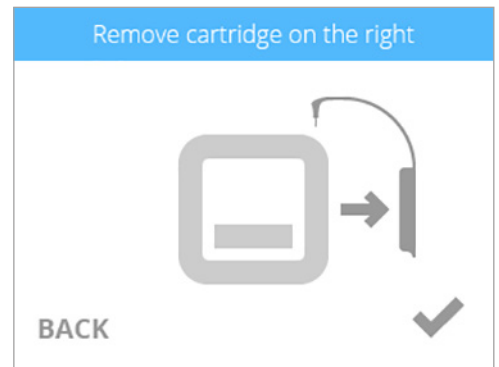
7. Mount the new cartridge to the right side of the printer. Select the **checkmark** to continue.



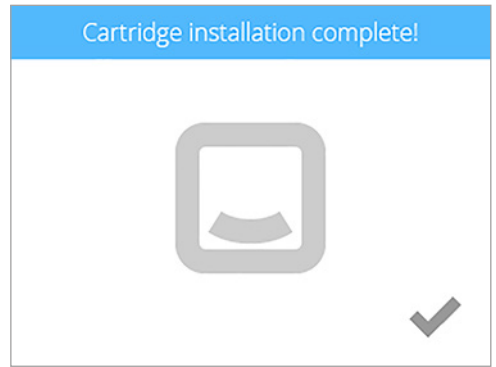
NOTE: Ensure the dongle cord has been tucked under the top of the printer cover.



NOTE: The print jet will begin to heat. Once the print jet has reached the proper temperature, the printer will prime molten material into the refuse bin.



8. Select the **checkmark** to complete the procedure.

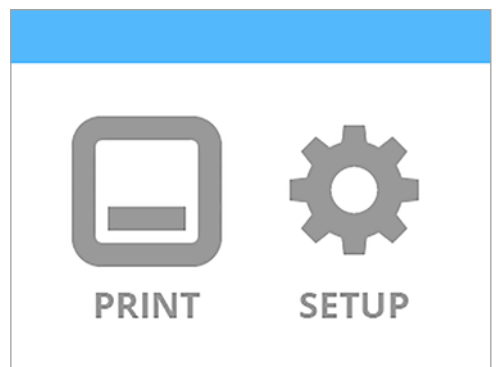


SETTING UP A WIRELESS CONNECTION

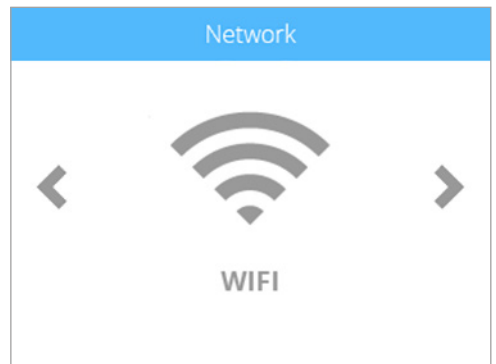
Wireless connections can be made with a Wi-Fi network, an ad hoc network or using Bluetooth.

Setting Up A Wi-Fi Connection

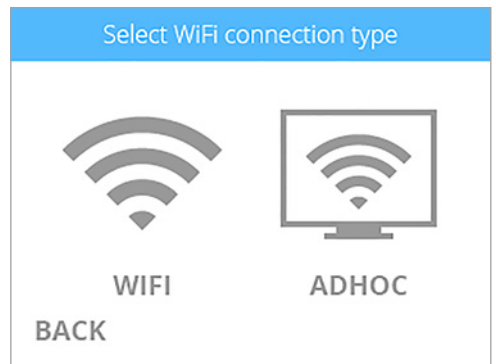
1. Select **SETUP**.



2. Navigate to the Network screen and select **WIFI**.

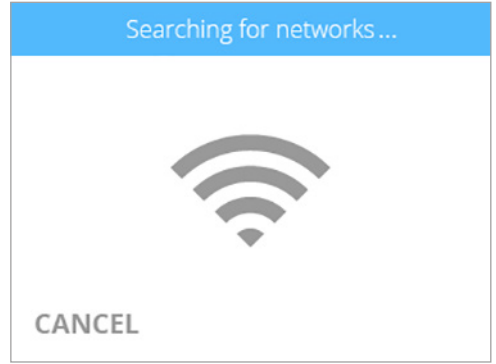


3. Select **WIFI**.





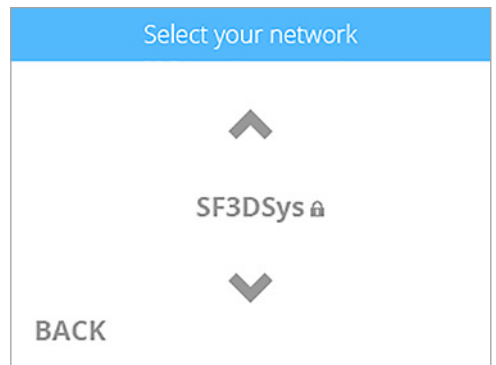
NOTE: The printer will search for area networks.



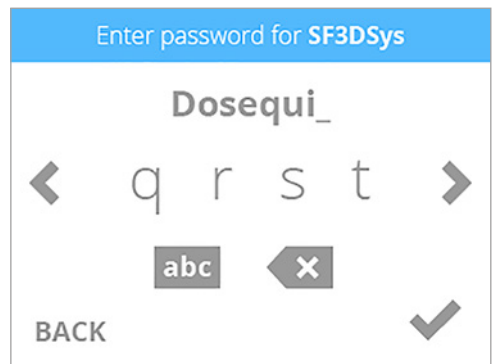
4. Using the up or down arrows, browse to your network name and select it.



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



NOTE: If your network requires a password, use the navigation arrows to browse to the characters that make up your password and select them. Select the **checkmark** to continue.



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



NOTE: If the printer could not connect to the network, you will be directed to enter the passcode again.





NOTE: If the printer could not connect to the network, you will be prompted to connect to a different network.



NOTE: The printer will indicate that it has successfully connected to a network.



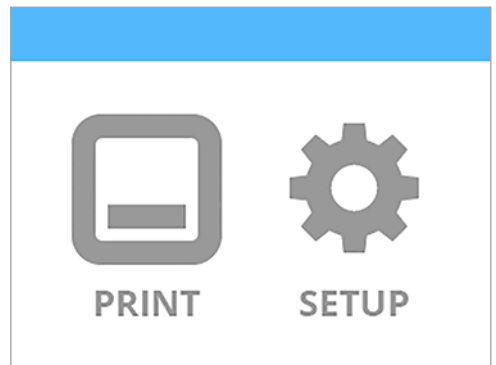
Connect To An Ad Hoc Network



NOTE: An ad hoc wireless connection cannot be created with Windows XP.

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 a standard wireless network. 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**.



2. Select **WIFI**.



3. Select **ADHOC**.

4. Select the **On/Off button** to turn on the Ad Hoc connection.

5. Select the **checkmark** to exit the utility.

6. In Windows®, select **Start > Control Panel**.

7. Type **network** in the search box.

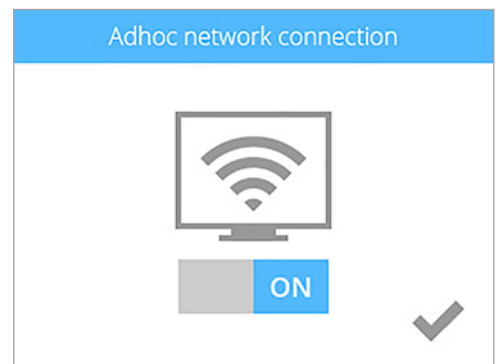
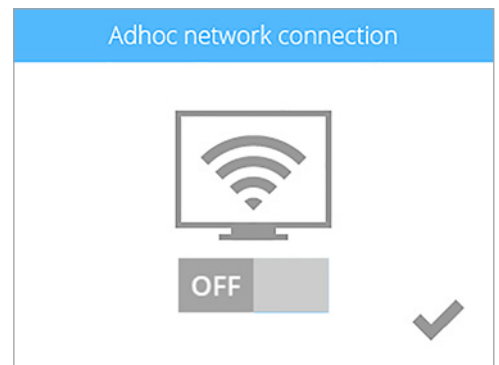
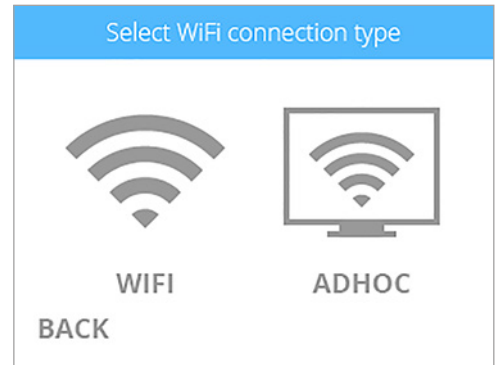
8. Select **Network and Sharing Center**.

9. Select **Set up a new connection or network**.

10. Select **Set up a wireless ad hoc (computer-to-computer) network**.

11. Select **Next**.

12. Follow the steps in the wizard.



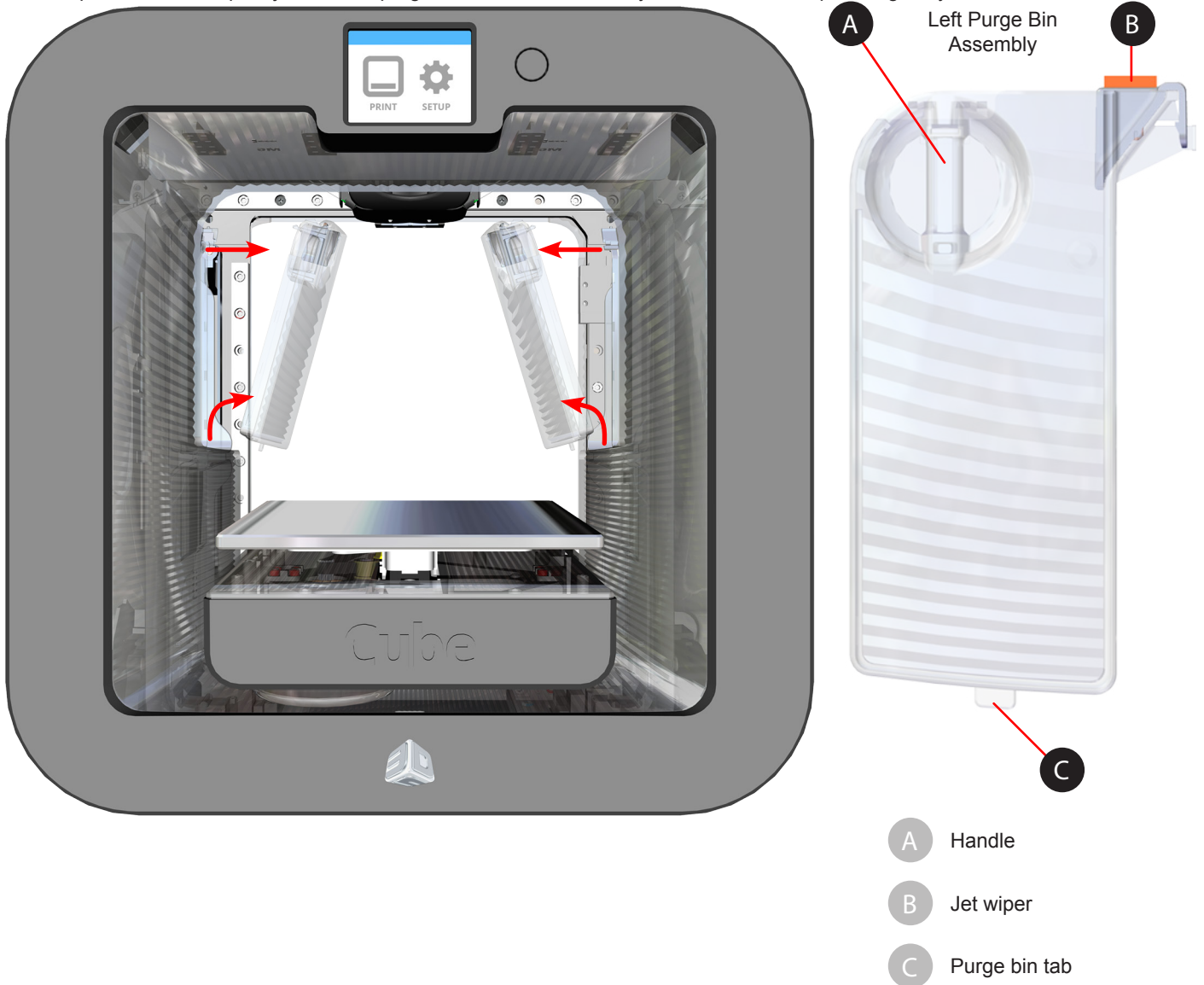
11 CUBE MAINTENANCE

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 Cube, including the print pad and anywhere else you might find pieces of plastic waste material. Print material can also collect around the belt area on the left side of the printer. This area should be checked periodically and any print material found should be removed.

REMOVING WASTE FROM THE JET WIPER PURGE BINS

In addition to having scrapers to clean the print jet nozzles, the jet wiper assemblies are also purge bins collecting print material that has been primed from the print jets. As the purge bin assemblies fill, they will need to be emptied regularly.



Using the handle, pull the purge bin assembly inward at the top and then upward to free the bottom tab from the slot.



NOTE: Note the tab at the bottom of the purge bin. This tab is designed to fit into a slot for proper installation.



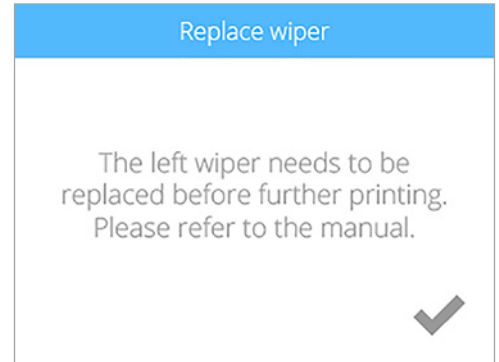
CAUTION: When removing or installing the purge bin assemblies, be careful not to damage the bottom tabs. Ensure the purge bin assemblies are installed properly before using the Cube.

REPLACING THE JET WIPERS

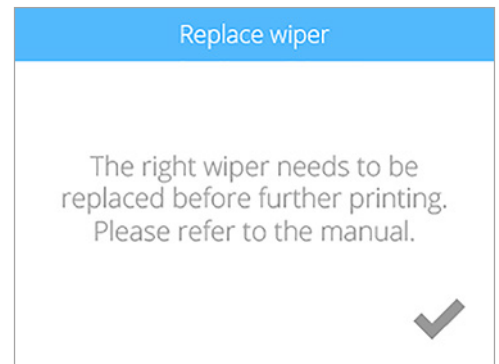
After a predetermined number of print jet cycles over the jet wipers the display will prompt the user to replace it before printing another creation.



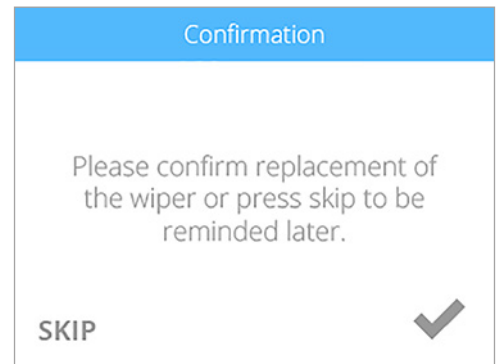
NOTE: When the left jet wiper has reached the end of its useful life, the printer will prompt you to replace it. Select the **checkmark** to continue.



NOTE: When the right jet wiper has reached the end of its useful life, the printer will prompt you to replace it. Select the **checkmark** to continue.

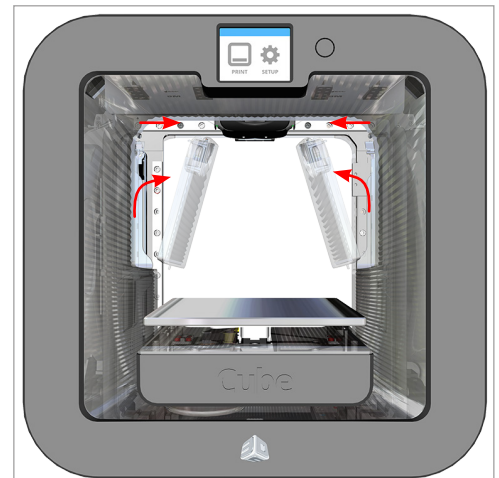


NOTE: If you have replaced the jet wiper, select the **checkmark** to reset the printer count. Press **SKIP** to be reminded later.

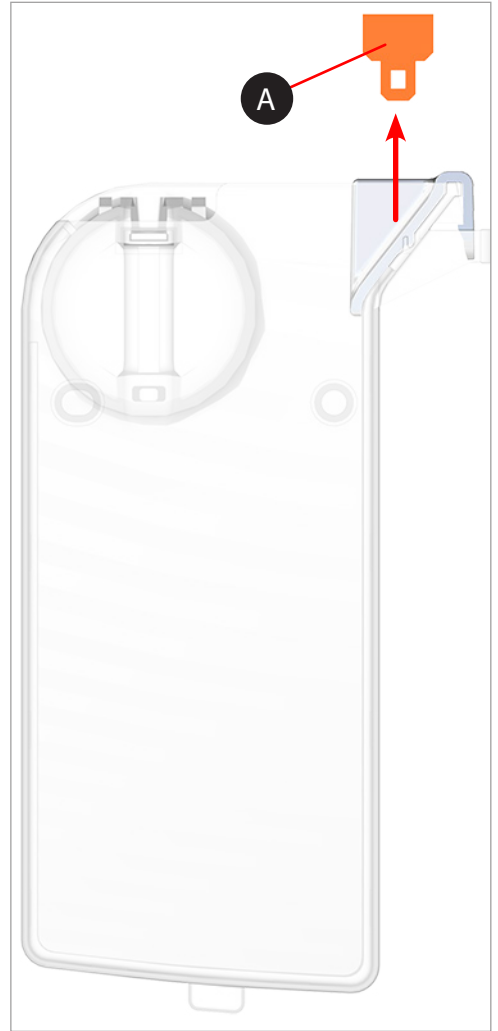


Procedure

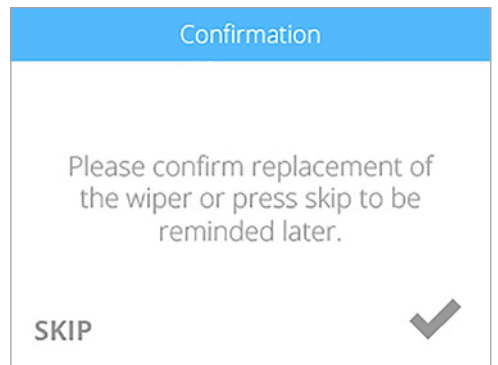
1. Remove the purge bin assemblies from the printer.



2. Pull the jet wiper (A) upward.



3. Install the new jet wiper onto the purge bin and reinstall the purge bin assembly into the printer.
4. Select the **checkmark** to confirm the replacement of the jet wiper.



PRINT PAD CALIBRATION

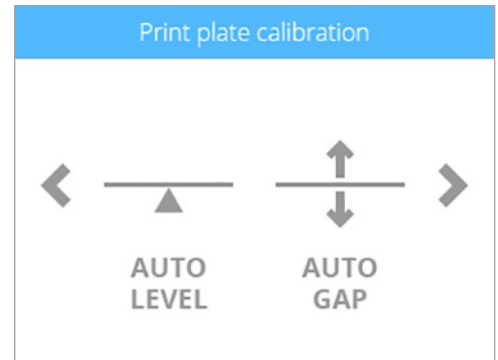
Print pad calibration is performed at the factory but should be performed routinely to ensure quality printing. The printer may occasionally prompt you to perform the Auto Level procedure. If your creations are not printing as expected, check the level of the print pad. Once the Auto Level has been performed, it is recommended that the Z-gap should be checked.



NOTE: Auto Level should always be performed before setting the Z-gap.

Auto Level

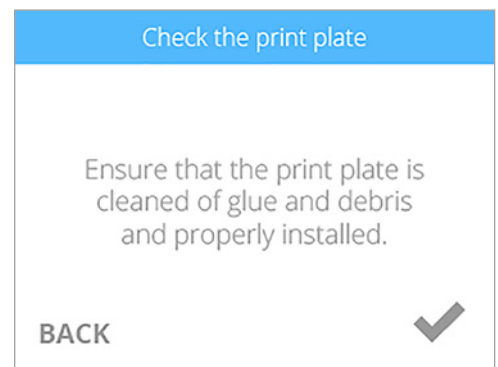
1. Navigate to the **Print Plate Calibration** screen and select **AUTO LEVEL**.



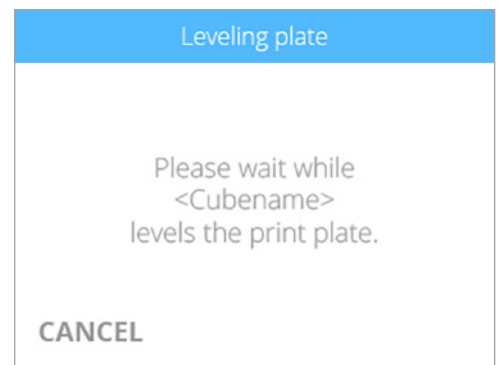
2. Clean the print pad thoroughly removing all glue and debris. Select the **checkmark** to continue.



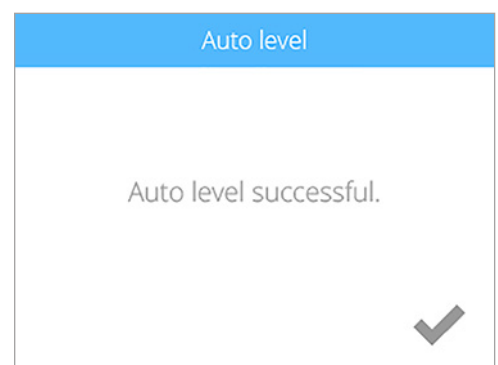
NOTE: The surface of the print pad must be completely clean.



NOTE: The Auto Level procedure will begin.



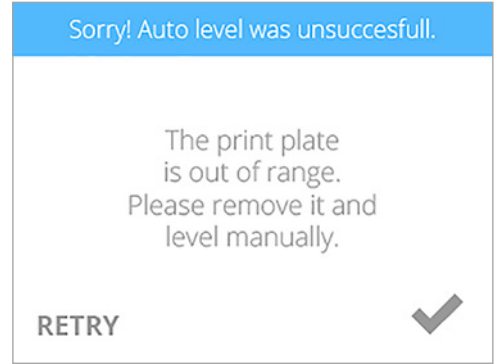
3. Once the Auto Level procedure has completed, select the **checkmark** to go back to the calibration menu. If the print pad is out of range, continue with the procedure.





NOTE: If the print pad is out of range, you will have to perform a manual adjustment.

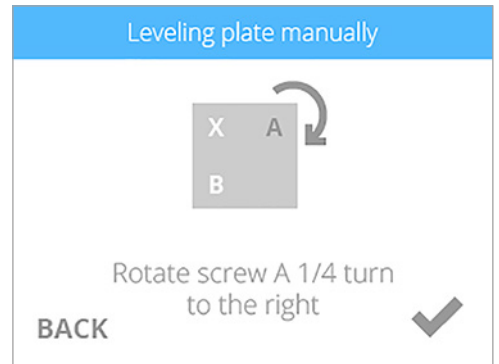
4. Remove the print pad and select the **checkmark** to continue.



5. Follow the instructions on the touchscreen. When finished making the adjustments, select the **checkmark** to continue.



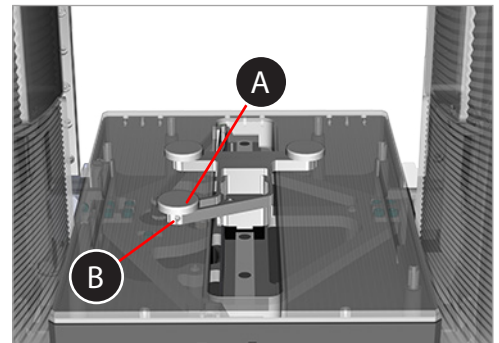
NOTE: Each thumb screw is secured with a 1.5 mm set screw. Use a 1.5 mm Allen wrench to loosen the set screw that needs adjustment and then tighten it after the adjustment has been made.



NOTE: Before turning an adjustment knob (A), loosen the set screw (B) below the knob using the included 1.5 mm Allen wrench. Each adjustment knob has a set screw.



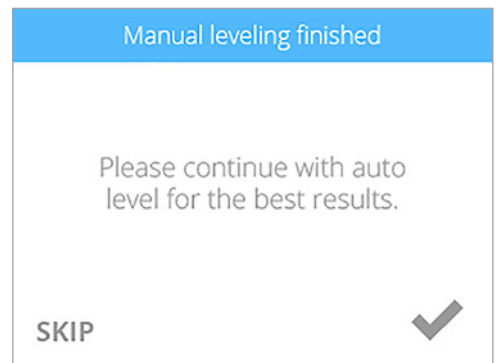
NOTE: Once an adjustment has been made, tighten the set screw enough to ensure that the knob does not loosely turn.



6. Reinstall the print pad and select the **checkmark** to perform the Auto Level procedure again.



NOTE: Select **SKIP to bypass the Auto Level procedure. It is recommended that a second Auto Level procedure is performed.**



Auto Gap

The Z-gap is the gap between the print pad and the print jet nozzle. To ensure the gap is measured correctly, the left cartridge must be installed. The Z-gap should be checked after performing the Auto Level procedure.



NOTE: The print pad must be clean and free from glue and print material and the sidewall lights must be off prior to performing this procedure. The sidewall lights will interfere with the automated gap measurement.

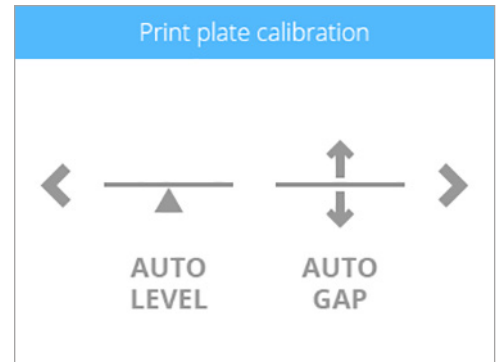


NOTE: Ensure the print jet nozzles are clean and free from print material. This can usually be accomplished by pulling out the material with your fingers.



Caution: Ensure the print jet nozzles are at room temperature before attempting to clean them.

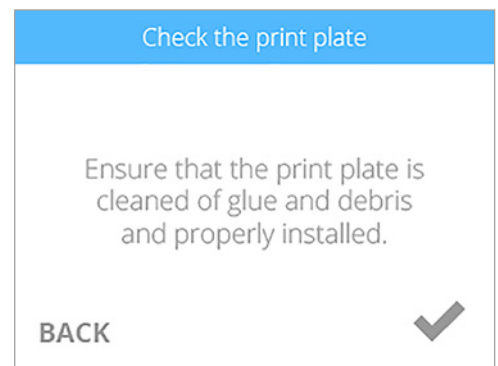
1. Navigate to the Print Plate Calibration screen and select **SET PLATE Z-HEIGHT**.



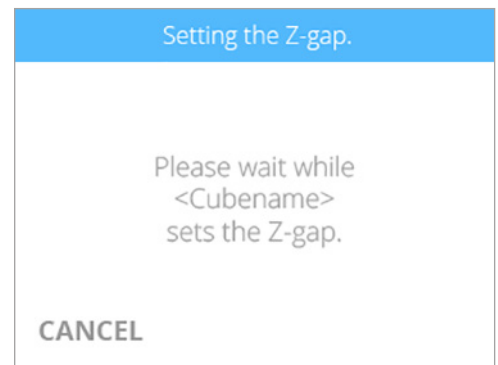
2. Check the plate for any residual glue or print material. Once the print pad is clean, select the **checkmark** to continue.



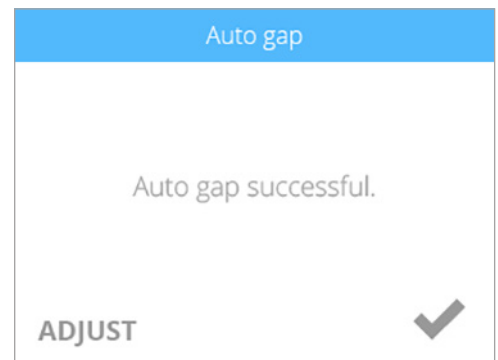
NOTE: The printer will perform an automated gap measurement. If the measurement is out of specifications, continue with the next step to perform a manual adjustment.



NOTE: The printer will perform an automated gap measurement.



3. Select the **checkmark** to continue.





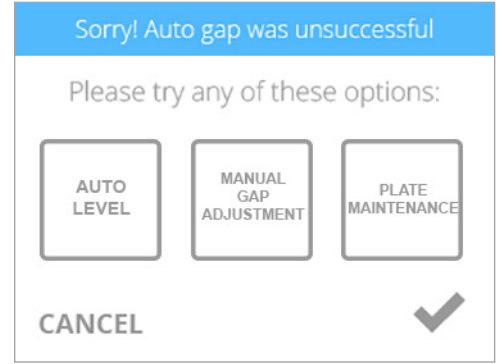
NOTE: If Auto Gap is not successful, it is recommended that you perform Auto Level and Auto Gap again. Select **AUTO LEVEL** to continue.



NOTE: If Auto Gap is not successful the second time, select **PLATE MAINTENANCE**. For more information, refer to the section titled Print Pad Maintenance. Once the **PLATE MAINTENANCE** procedure has been performed, perform Auto Level and Auto Gap.



NOTE: If Auto Gap is still not successful, select **MANUAL GAP ADJUSTMENT**. Refer to the section titled Manual Gap Adjustment for more information. Once the Manual Gap Adjustment procedure has been performed, note the final reading for future reference.

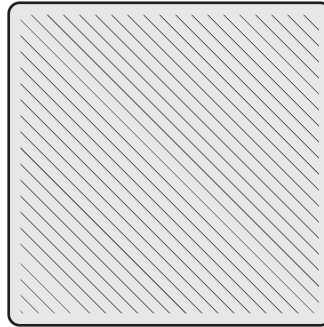


Gap Verification

Print a test print from the System 1 menu. Once you have removed it from the print pad, visually inspect the first (bottom) layer of the print and verify the quality. Turn the print upside down and inspect the printing grain. When the gap is optimal, the bottom of the print should appear smooth and the lines should be very light and fused together.

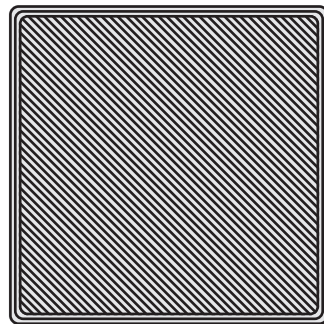
Correct Gap

The gap is correct when the bottom of the print appears smooth and the lines are tightly fused together.



Gap Is Too Large

If the lines are more prominent (see the illustration below) and not tightly fused, the gap is too large. Auto Level and Auto Gap should be performed.



If the first layer begins to fray when removing the print from the print pad, that is also an indication that the gap is too large.

Gap Is Too Narrow

When the gap is too narrow, the part may be very difficult to remove from the print pad. In addition, the bottom layers may break off from the rest of the part while removing it. The bottom of the first layer will appear very smooth and shiny with almost no visible lines.



NOTE: If the bottom of the part appears shiny, make sure all glue has been removed and then reinspect it.



Caution: Damage to the print pad can occur if the gap is too narrow.

Manual Gap Adjustment

If Auto Gap is unsuccessful, you may perform a manual gap adjustment to ensure the first layer of the part prints properly.

1. Select **MANUAL GAP ADJUSTMENT**.

2. Place the gap gauge on top of the print pad under the left print jet. Select the **checkmark** to continue.



NOTE: Ensure the left cartridge is installed before performing this procedure.

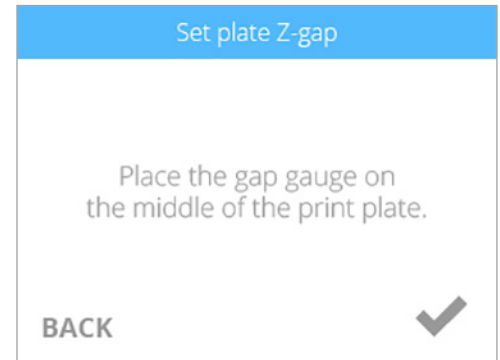
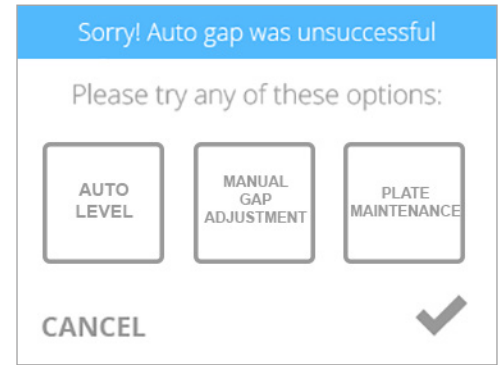


NOTE: The Gap Gauge is a thin polyester strip approximately 8.5" (216 mm) long and 1.5" (38 mm) wide.

3. Gently slide the gap gauge back and forth between the print pad and the left print jet. Using the arrows, raise or lower the print pad until you feel a slight resistance on the gauge. Select the **checkmark** when you feel the proper resistance.



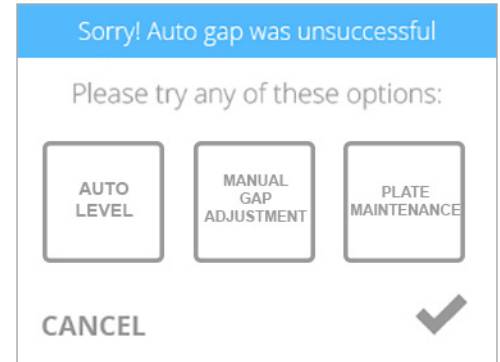
Caution: Exercise caution to prevent the print jet from pressing into the print pad. Once you feel a slight resistance in the Gap Gauge as it moves between the print pad and the left print jet, the gap is correct.



PRINT PAD MAINTENANCE

Auto Level and Auto Gap can be affected by residual glue or print material adhered to the print pad. The procedures can also be affected by a print pad that is too shiny.

1. If Auto Gap is unsuccessful after two consecutive attempts, select **PLATE MAINTENANCE**.



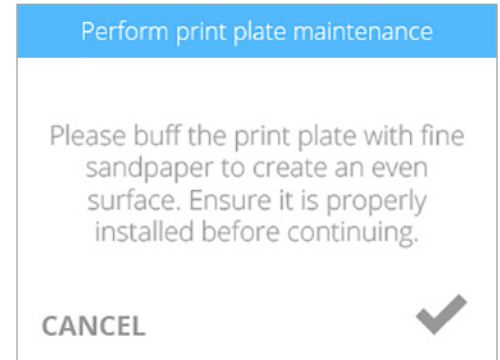
2. Using the fine-grit sandpaper included with the printer, buff the print pad.



NOTE: Refer to the section titled Clean The Print Pad for specific instructions.



NOTE: Ensure the print pad is clean and dry before installing it in the printer.



3. Select the **checkmark** to continue.
4. Perform the Auto Level and Auto Gap procedures.

Clean The Print Pad

1. Remove the print pad from the printer.
2. Wash all glue and print material from the print pad with warm tap water. If necessary, scrub the print pad with a soft brush.
3. Dry the print pad thoroughly.
4. If residual material is still adhered to the print pad, gently use the scraper to remove it.
5. Using the included fine-grit sandpaper, lightly sand the print pad left-to-right in .5" (12.7 mm) swirling motions until the entire print pad has been treated.



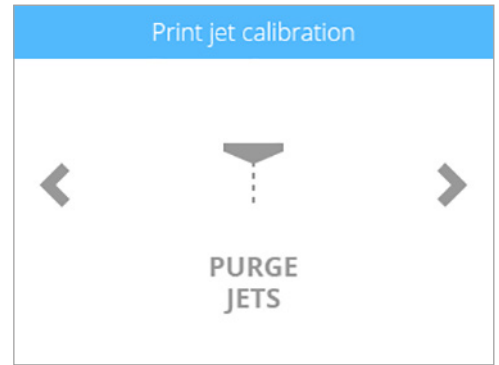
NOTE: It is most important to gently sand all shiny areas of the print pad so the print pad surface appears matte in texture.

6. Clean and dry the print pad thoroughly.
7. Perform the Auto Level and Auto Gap procedures.

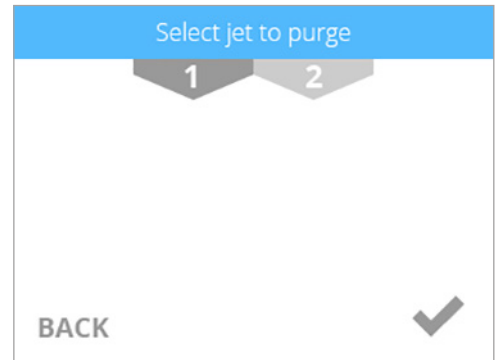
PURGE JETS

The Purge Jets utility allows you to test the extrusion of print material through the print jets.

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



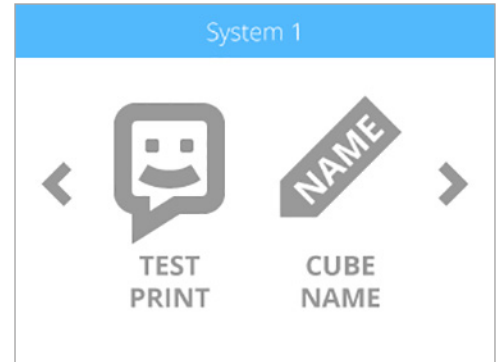
2. Select print jet 1 or 2. Press the **checkmark** to continue.



TEST PRINT

Test print allows you to print the same welcome message that is printed during the initial setup of the printer. The print is very useful for determining if the gap between the left print jet and the print pad is correct.

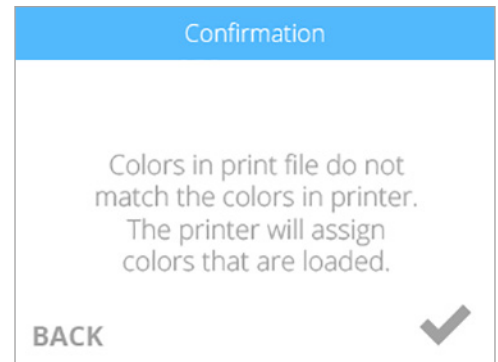
1. Select **TEST PRINT**.



2. Select **PRINT**.



NOTE: If the color built into the test print does not match a color of one of the installed cartridges, the printer will assign an installed cartridge color to the test print.



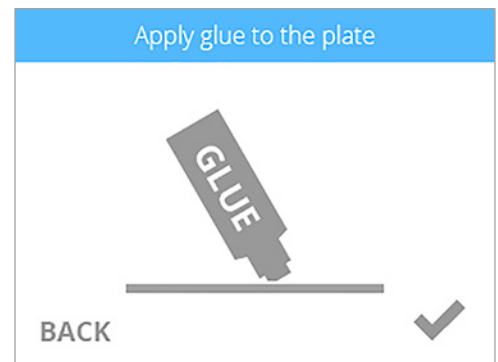
3. Apply a thin layer of Cube Glue to the print pad. Select the checkmark to continue.



NOTE: Apply enough glue to cover a square area of 5"/15 cm.



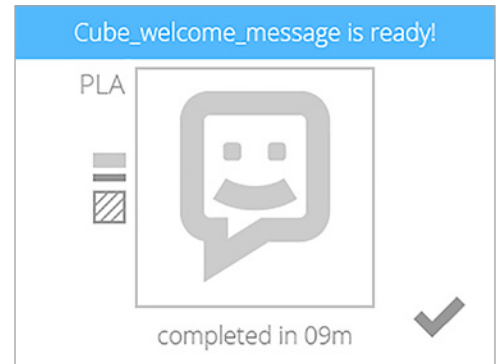
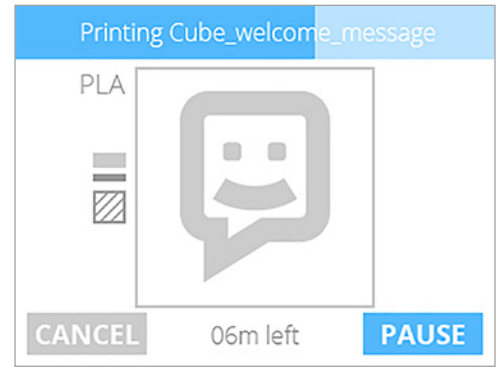
NOTE: Ensure the glue is dry prior to printing.





NOTE: The printer will begin to heat and then begin printing the test print.

4. Select the **checkmark** to continue.



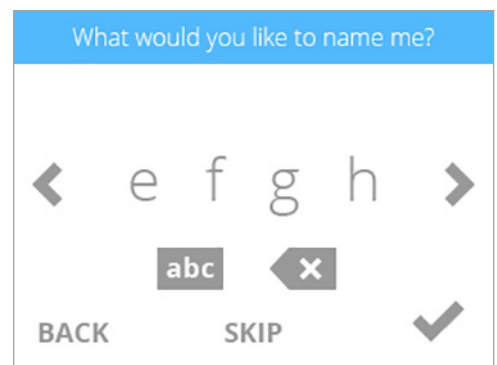
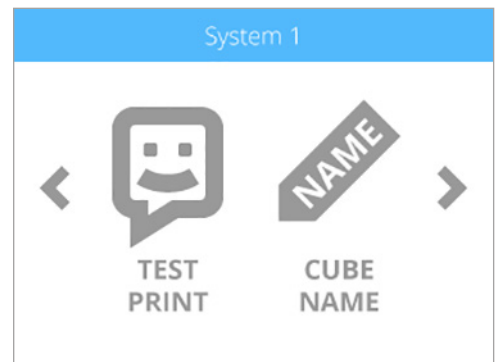
CUBE NAME

Cube Name allows you to change the name of your printer.

1. Select **CUBE NAME**.
2. Enter a name for your printer. Scroll through the letters by pressing the arrow symbols on each side of the screen. Select the letters to spell the name. Select the **checkmark** to confirm your choice.



NOTE: Selecting the abc button toggles between lowercase letters, uppercase letters and numerals.



UPDATING THE CUBE FIRMWARE

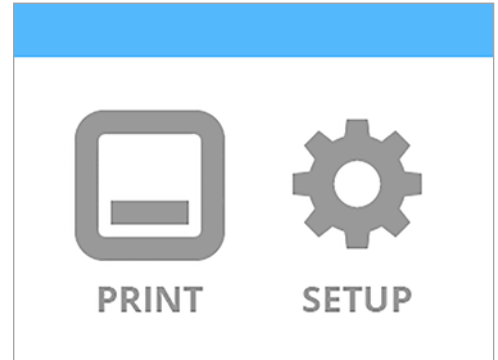
The Cube firmware can either be updated via wireless connection or by using a USB mass storage device.



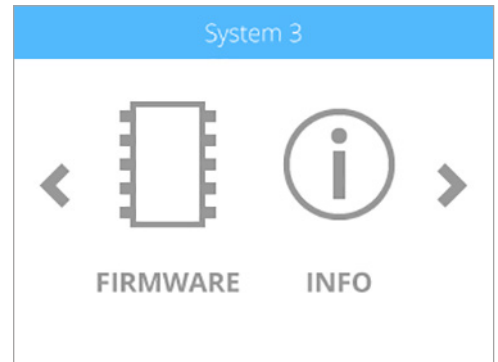
NOTE: Whenever a firmware update is performed, you must perform the Auto Level procedure and then the Set Plate Z-Height procedure.

Updating Firmware Using Wi-Fi

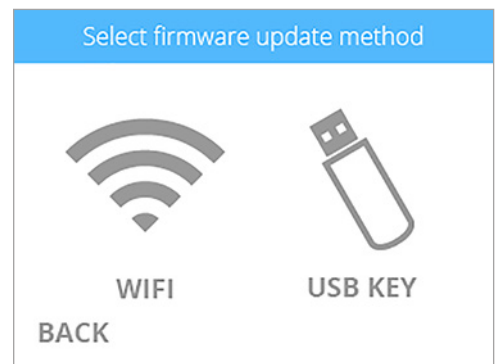
1. Select **SETUP**.



2. Browse to the **Advanced** screen.



3. Select **WIFI**.

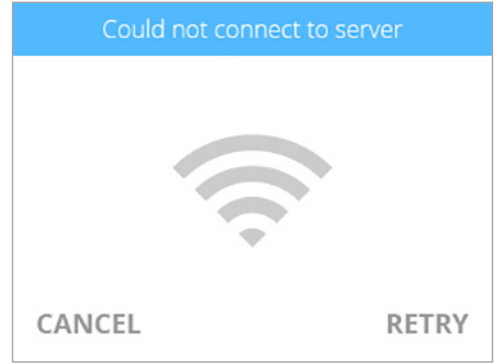


NOTE: The printer will attempt to connect to the server.

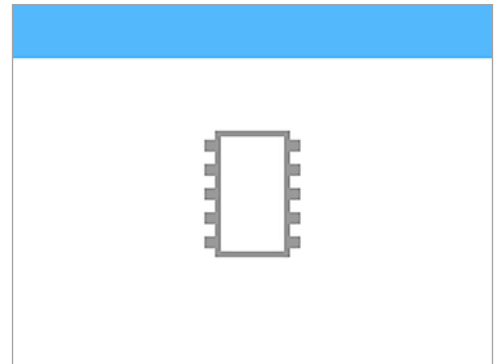




NOTE: If the printer can not connect to the server, select **RETRY** to connect to the server. Select **CANCEL** if you do not want to update the firmware.



NOTE: The printer will check for a firmware update.



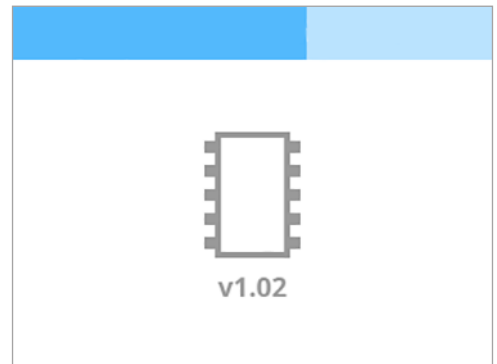
NOTE: The printer will begin downloading new firmware. The blue bar is a progress indicator.



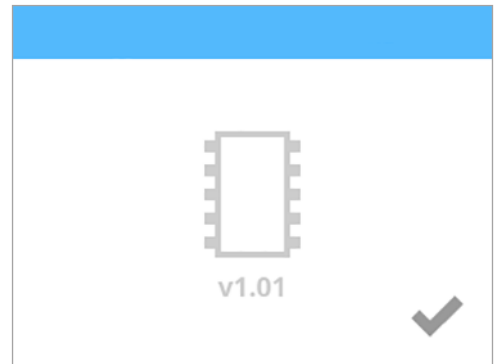
NOTE: The download could take a few minutes.



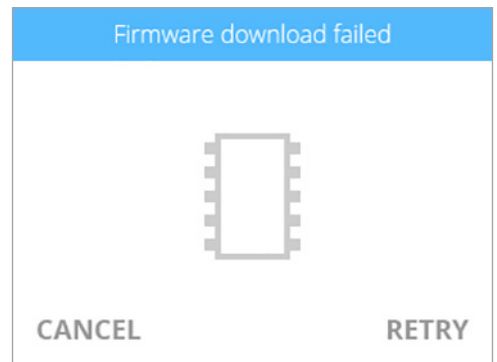
WARNING: DO NOT POWER OFF OR DISCONNECT THE PRINTER FROM UTILITY POWER DURING THE UPDATE PROCESS.



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 a progress indicator.



NOTE: The installation could take a few minutes.



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



NOTE: If the firmware update fails. Select **RETRY** to attempt to install the firmware again. Select **CANCEL** if you do not want to update the firmware.

4. Press and release the **power button** and wait until the display turns on.

5. Perform the Auto Level procedure.

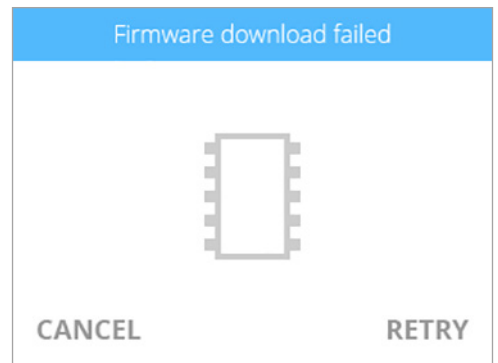


NOTE: For more information, refer to the section titled **Print Pad Calibration**.

6. Perform the Z-Gap Adjustment procedure.



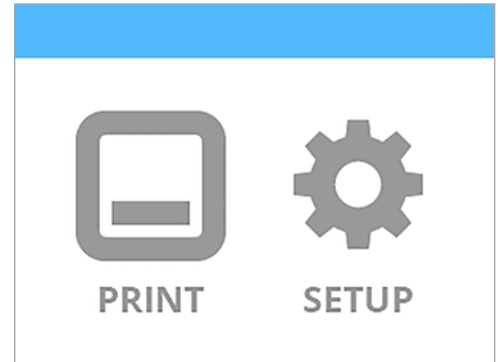
NOTE: For more information, refer to the section titled **Print Pad Calibration**.



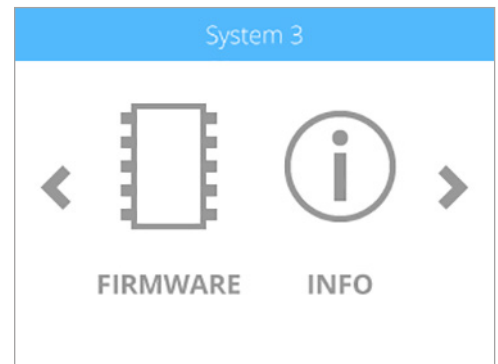
Updating Firmware Using USB

When using a USB mass storage device to update the firmware, log into your www.Cubify.com account and download the latest firmware for your USB mass storage device.

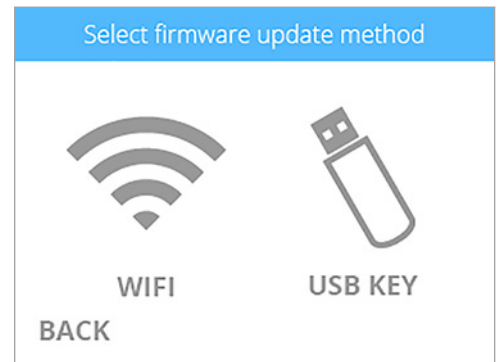
1. Select **SETUP**.



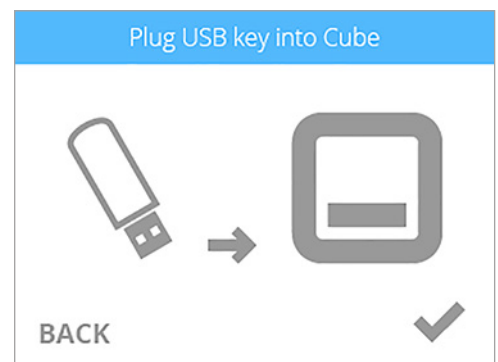
2. Browse to the **Advanced** screen.



3. Select **USB KEY**.



4. Insert the USB mass storage device into the printer and select the **checkmark** to continue.





NOTE: The printer will check for a firmware update.



NOTE: The printer will begin downloading new firmware. The blue bar is 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.



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.



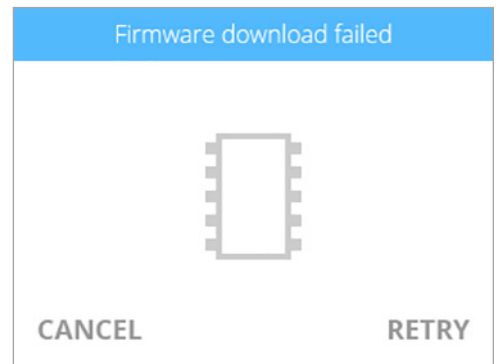
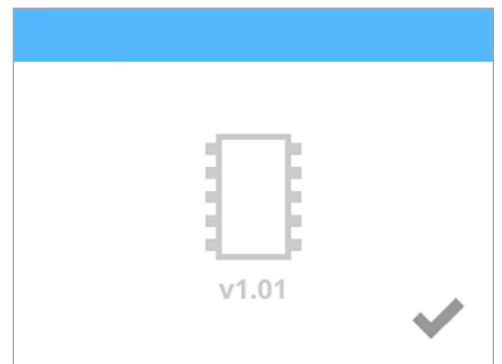
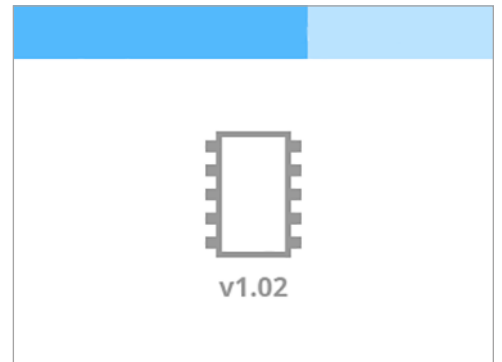
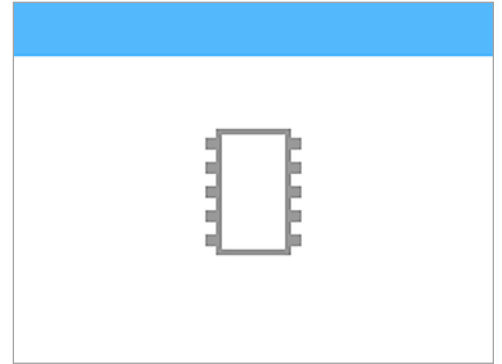
NOTE: The firmware will begin to install. The blue bar is a progress indicator.



NOTE: The installation could take a few minutes.

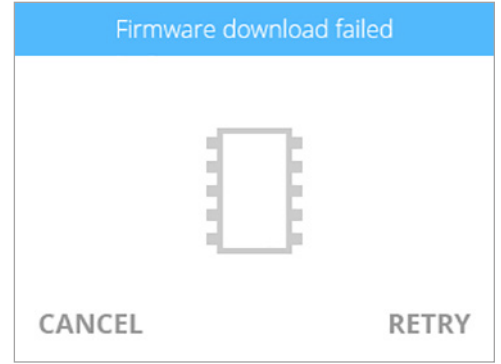


WARNING: DO NOT POWER OFF OR DISCONNECT THE PRINTER FROM UTILITY POWER DURING THE UPDATE PROCESS.





NOTE: If the firmware update fails. Select **RETRY** to attempt to install the firmware again. Select **CANCEL** if you do not want to update the firmware.

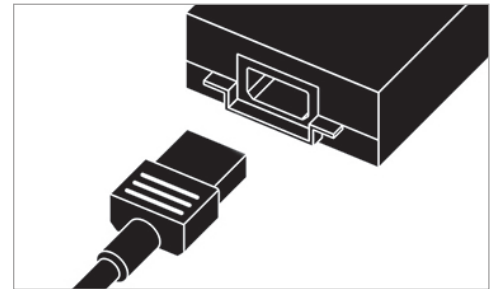


5. Press and release the **power button** and wait until the display turns on.

REPACKING THE PRINTER

If the printer should ever need to be returned to the manufacturer, the printer must be properly repackaged using the original packaging materials. If you no longer have your original packaging materials, contact Cubifysupport@cubify.com for assistance in obtaining the appropriate packaging materials.

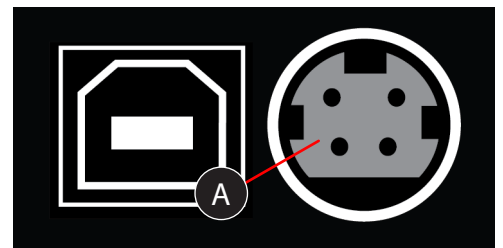
1. Power off the printer by pressing and holding the button next to the touchscreen display.
2. Disconnect the power cord from utility power and disconnect the cord from the power supply.



3. Disconnect the power supply cable from the printer's power inlet (A).



NOTE: The power supply cable is designed to lock in place. To remove the cable, pull the outer sleeve back to release it and then continue to pull the cable from the printer.

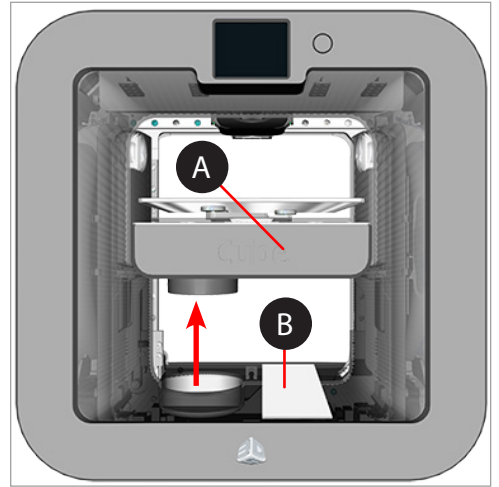


4. Securely repack all of the accessories into the accessories box.

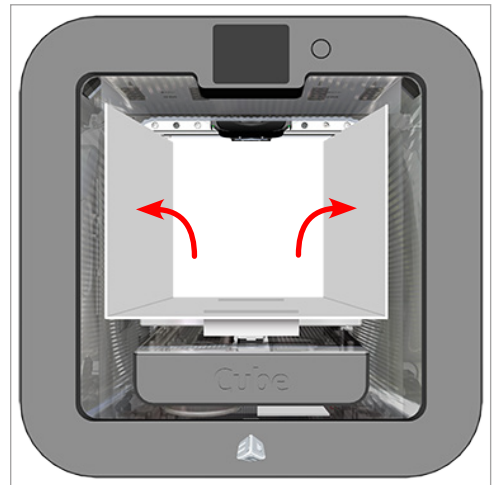


NOTE: Refer to the Contents list in the section titled **Unpacking and Setting Up Your Cube**.

5. Carefully lift the print platform (A) and tape the spacer (B) to the printer in the location shown.



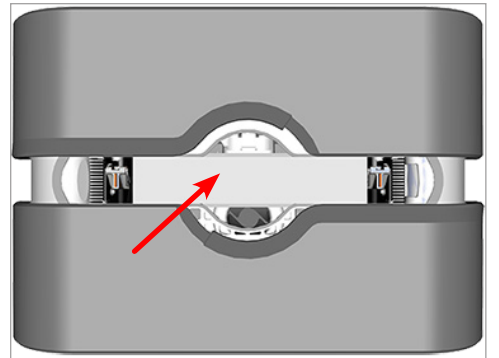
6. Place the lower insert on top of the print pad and fold the sides outward.



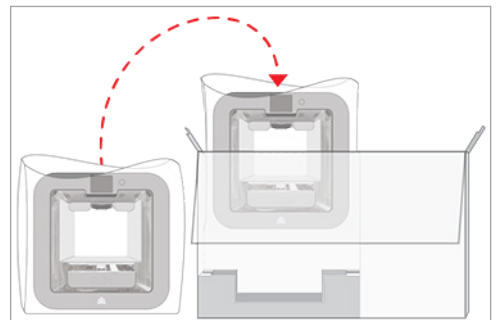
7. Move the print jet mount to the center of the printer and place the top insert over the mount.



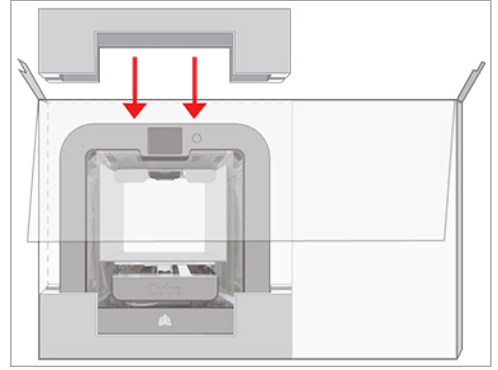
NOTE: The top insert is designed to keep the sides of the lower insert pressed outward.



8. Place the printer in the protective bag and then place it in the lower foam support in the box.



9. Place the upper foam support on top of the printer.



10. Close the box and install the clips in the cutouts on top of the box.

11. Place the printer box into the outer box and seal the outer box.

CONTACTING SUPPORT

Support for the Cube is available at Cubifysupport@cube.com.

12 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.

Cube 3D printers use eco-friendly plastics that can be recycled, re-purposed or composted responsibly. 3D Systems invites all Cube 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 CUBE PRINTER IN A RESPONSIBLE MANNER ACCORDING TO ALL LOCAL LAWS AND STATUTES.



3D Systems, Inc.

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www.3dsystems.com

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