

# **eddie™**

## **Edible Ink Printer**

### **User's Manual**

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#### **Revision History**

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**FCC Compliance Statement:** This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**For Users in the United States:** This product is intended to be supplied by a UL listed Direct Plug-In Power Supply marked "Class 2" or a UL listed ITE Power Supply marked "LPS" with output rated 12VDC, 3A or higher. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures. 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:

- Re-orient 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.

Use of shielded cables is required to comply with the Class A limits of Part 15 of the FCC Rules. You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate and/or obtain warranty service for this equipment.

**For Users in Canada:** This digital apparatus does not exceed the Class A limits for radio noise for digital apparatus set out on the Radio Interference Regulations of the Canadian Department of Communications. Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la class A prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.

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## Section 1: Getting Started

### THANK YOU...

...for choosing Eddie the Edible Ink Printer. Eddie will print vibrant colors and stunning photo-realistic photographs directly onto cookies and other approved print items.

This User's Manual is your complete step-by-step guide to quickly and easily setting up and printing with your new Edible Ink Printer!

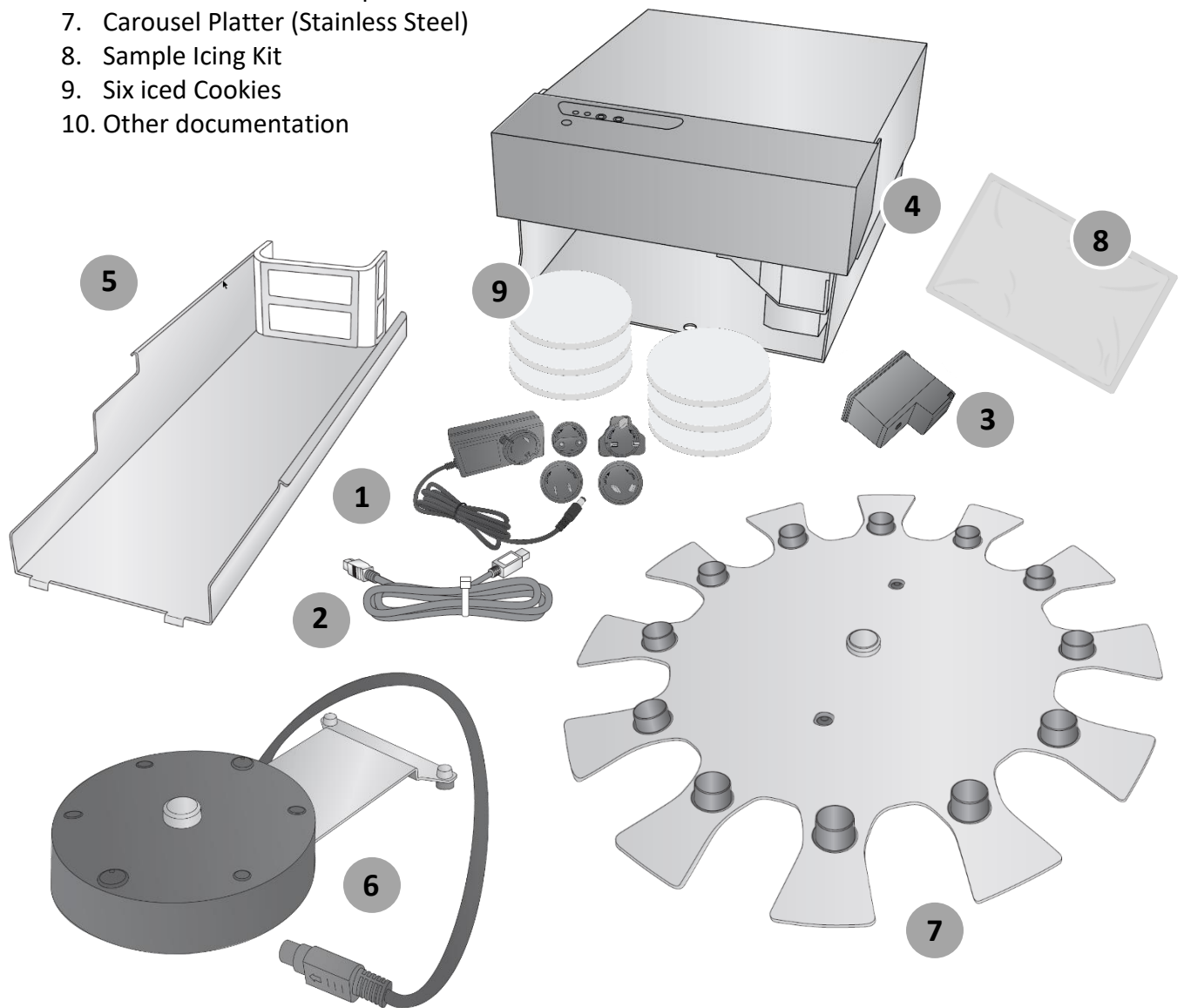
### 1A Choosing a Good Location

- Place the Printer on a flat surface in a location with adequate air circulation to prevent internal heat build-up.
- Do not place the Printer near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration, or shock.
- Allow for 3" of clearance behind the Printer to accommodate cables and ink overspray venting. Ink build-up may occur on surfaces close to the back of the Printer if ink filters are not cleaned regularly.
- Allow for adequate overhead clearance for opening the top section to allow easy access to the interior for cleaning. The Printer will require 10" (25.4 cm) of additional space above to completely open the top section (Total = 17" or 43.18 cm).

## 1B Unpacking and Inspection

While unpacking your Printer, inspect the carton to ensure that no damage has occurred during shipping. Make sure that all supplied accessories are included with your unit. The following items are included in the supply box:

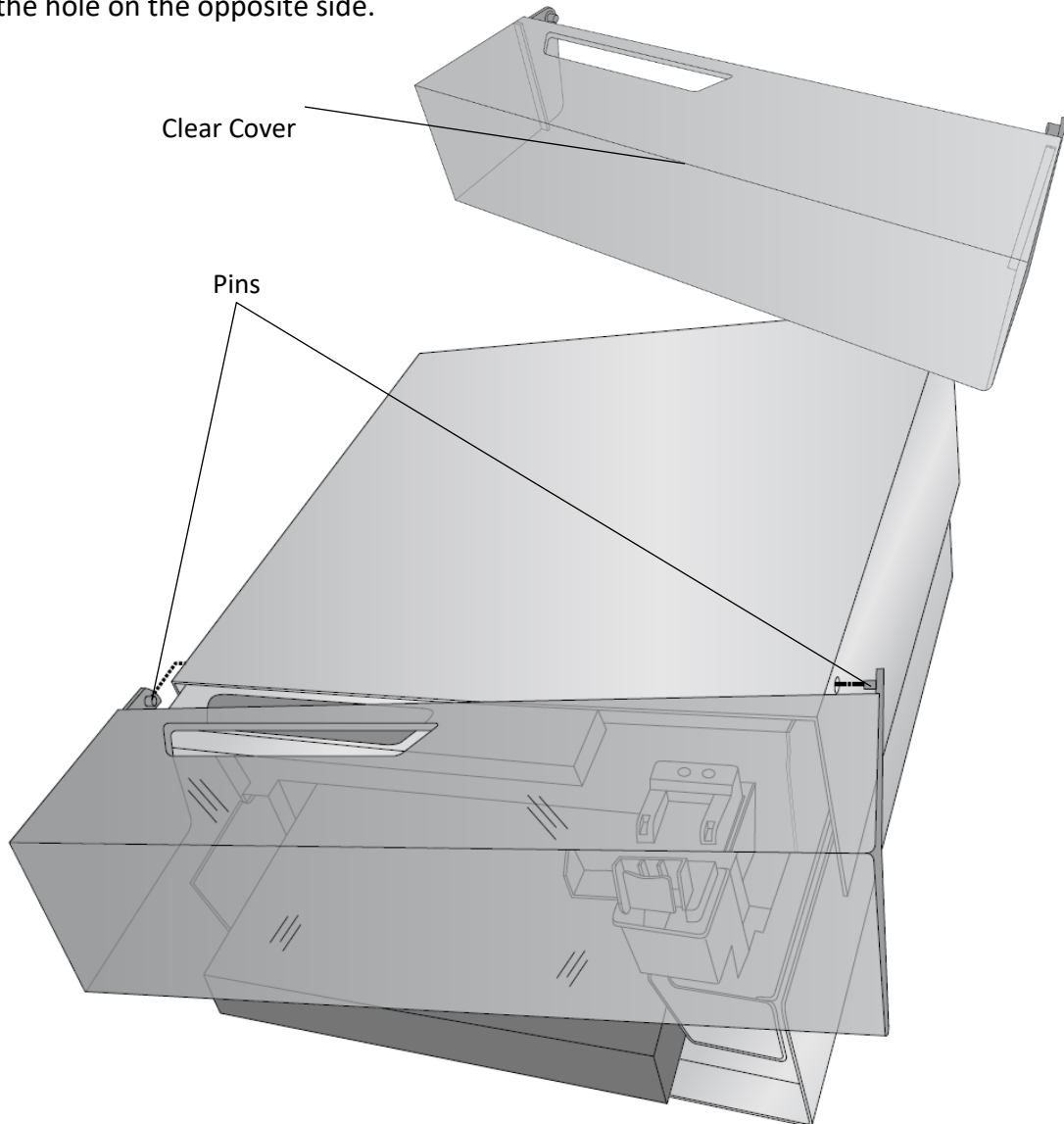
1. Power Adapter, Cord, and Adapters
2. 6' USB Cable (If another USB cable is used, it must be 6' (2 M) or less)
3. Color Edible Ink Cartridge Part Number
4. Printer
5. Crumb Catcher (Stainless Steel)
6. Carousel Base with six-pin mini din cable
7. Carousel Platter (Stainless Steel)
8. Sample Icing Kit
9. Six iced Cookies
10. Other documentation



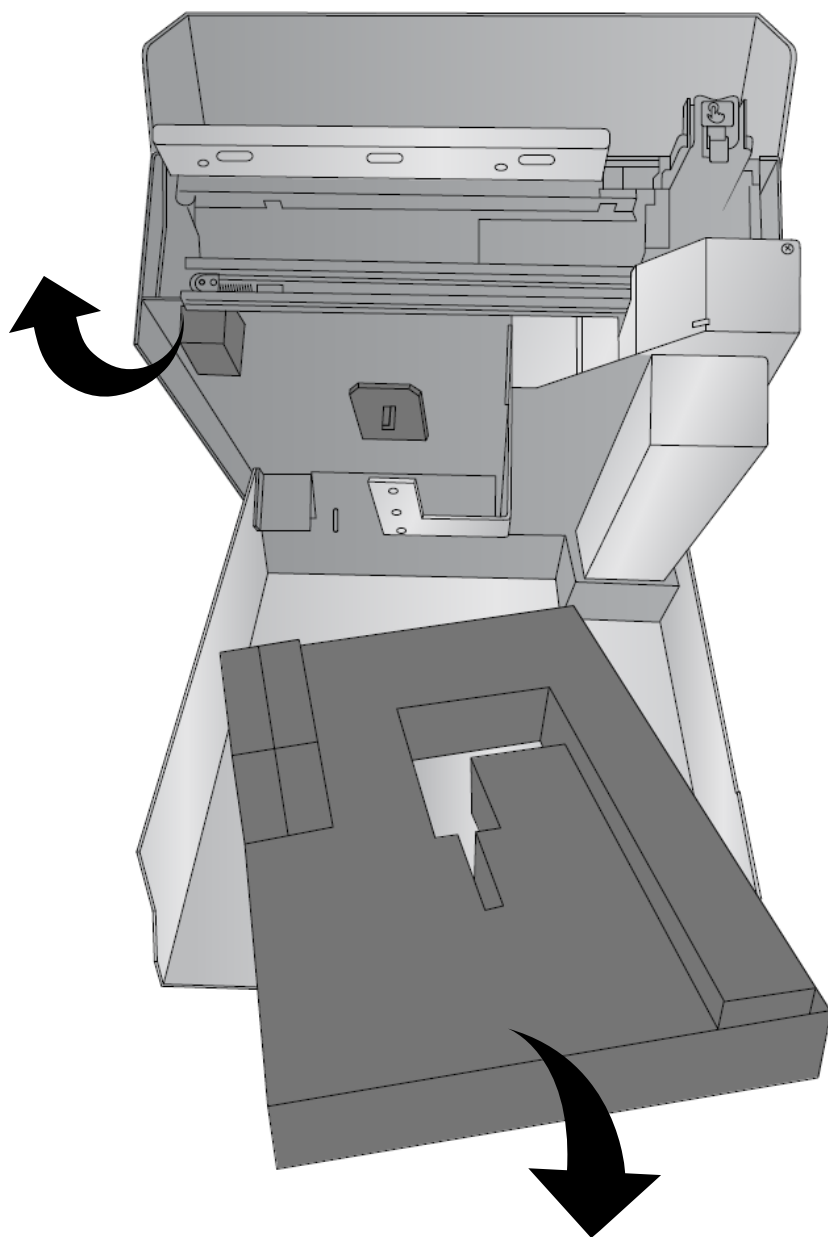
## 1C Setup the Printer

Some assembly is required to set up your Printer.

- Install the clear top cover aligning the pins with the holes on the top section of the Printer. Install one side and then bend the cover gently to allow the second pin to reach the hole on the opposite side.

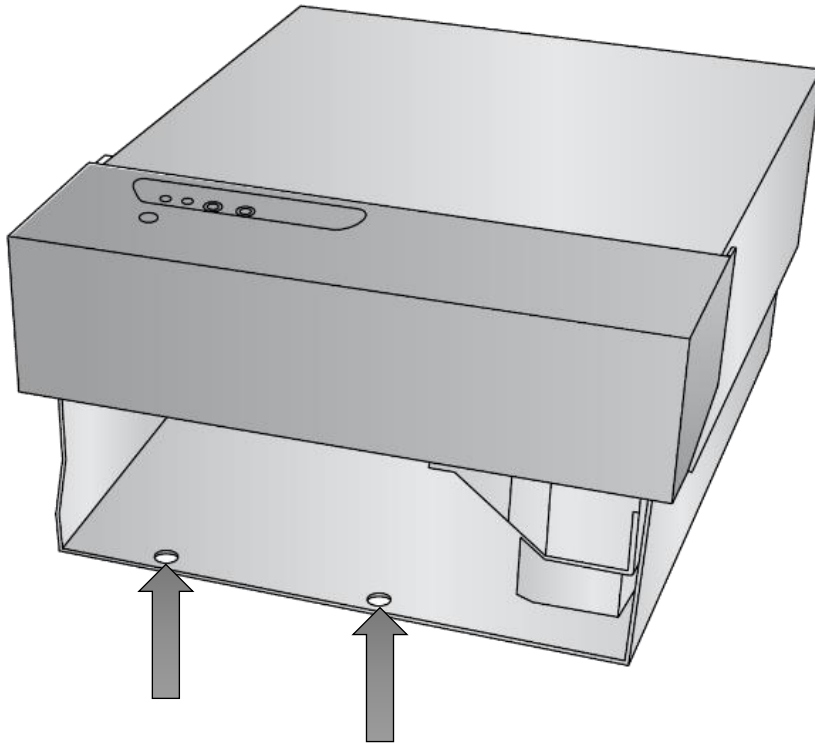


- Open the top of the Printer and remove the foam shipping insert. Keep it along with the other boxing material.

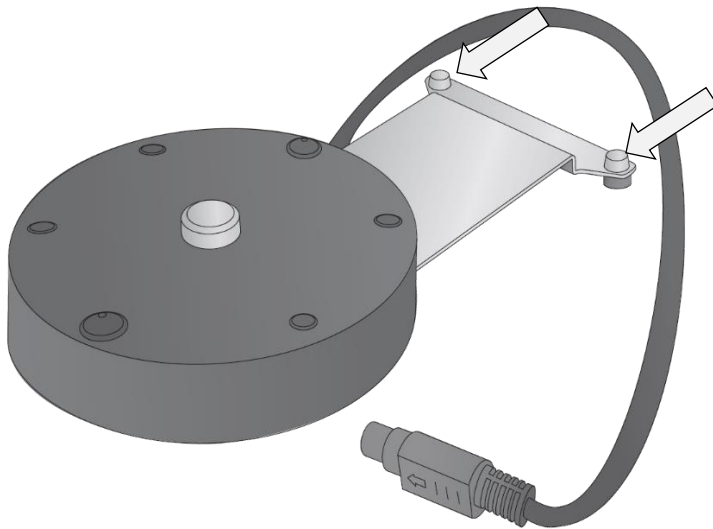




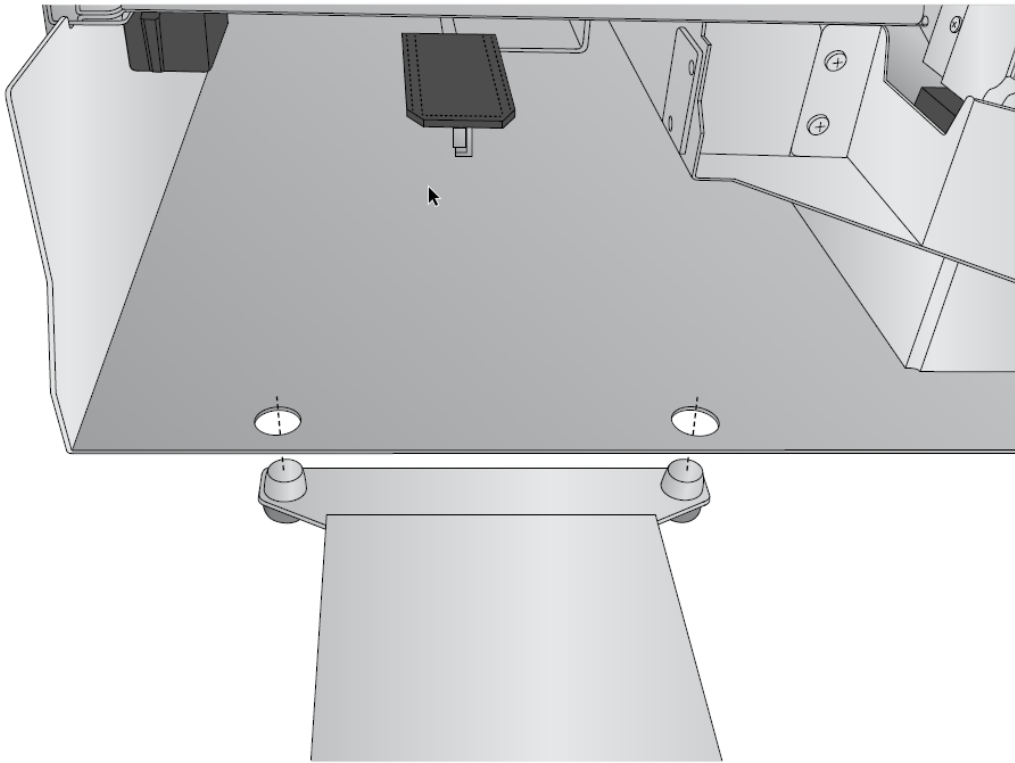
- Locate the Carousel positioning holes in the base.



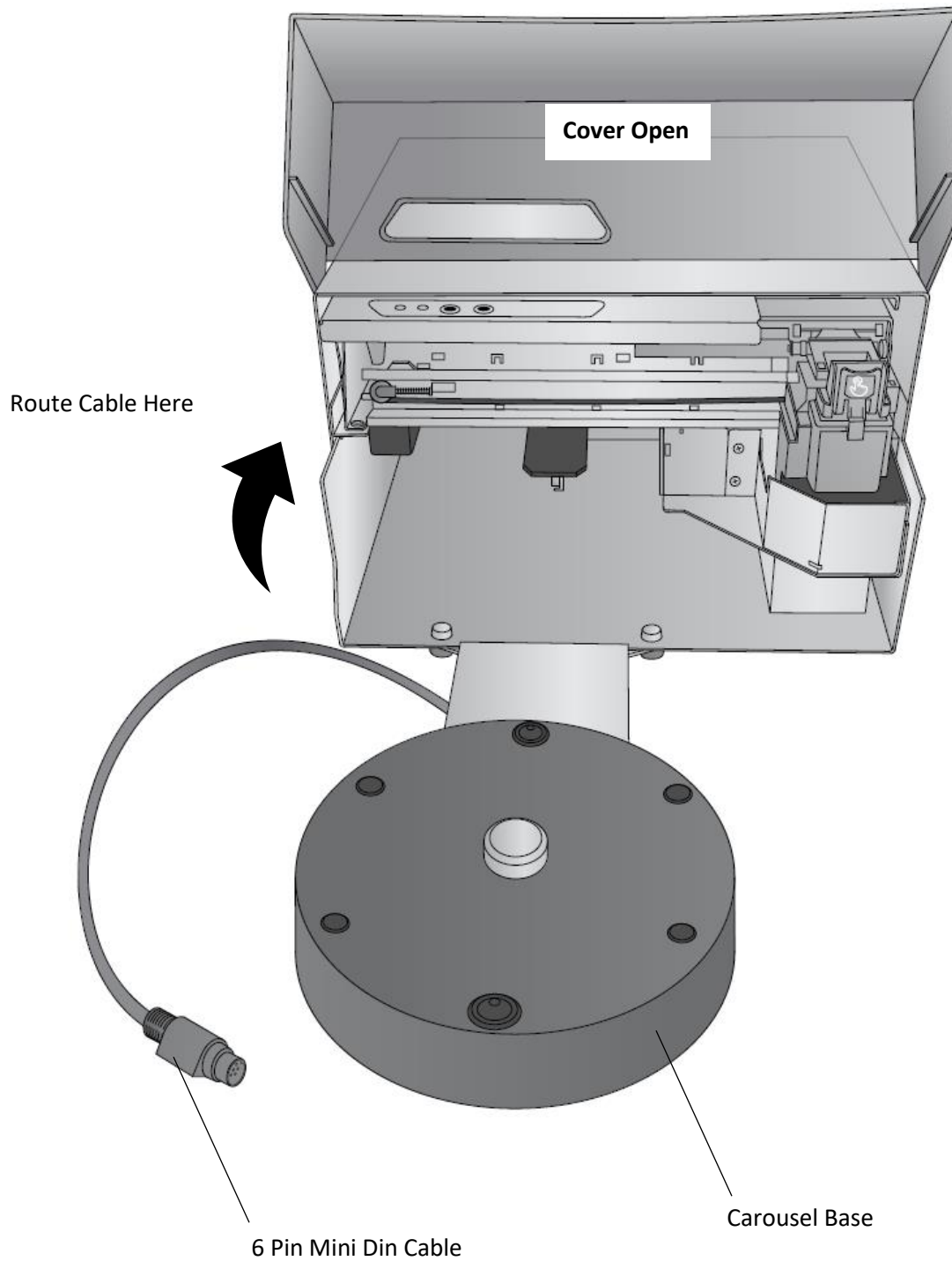
- Locate the Carousel Base. Locate the position pins.



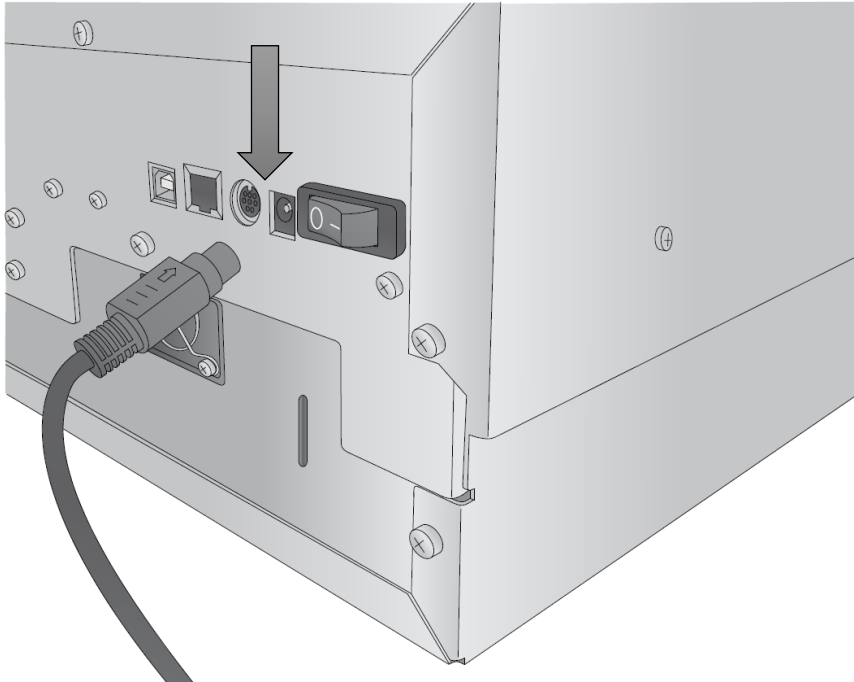
- Lift the base of the Printer slightly and slide the carousel base underneath. Align the holes with the pins and lower the Printer into place.



- Locate the 6 Pin Mini Din Cable attached to the Carousel Base. Route the cable along the left side of the unit until it reaches the back of the Printer. Open the Top Cover.



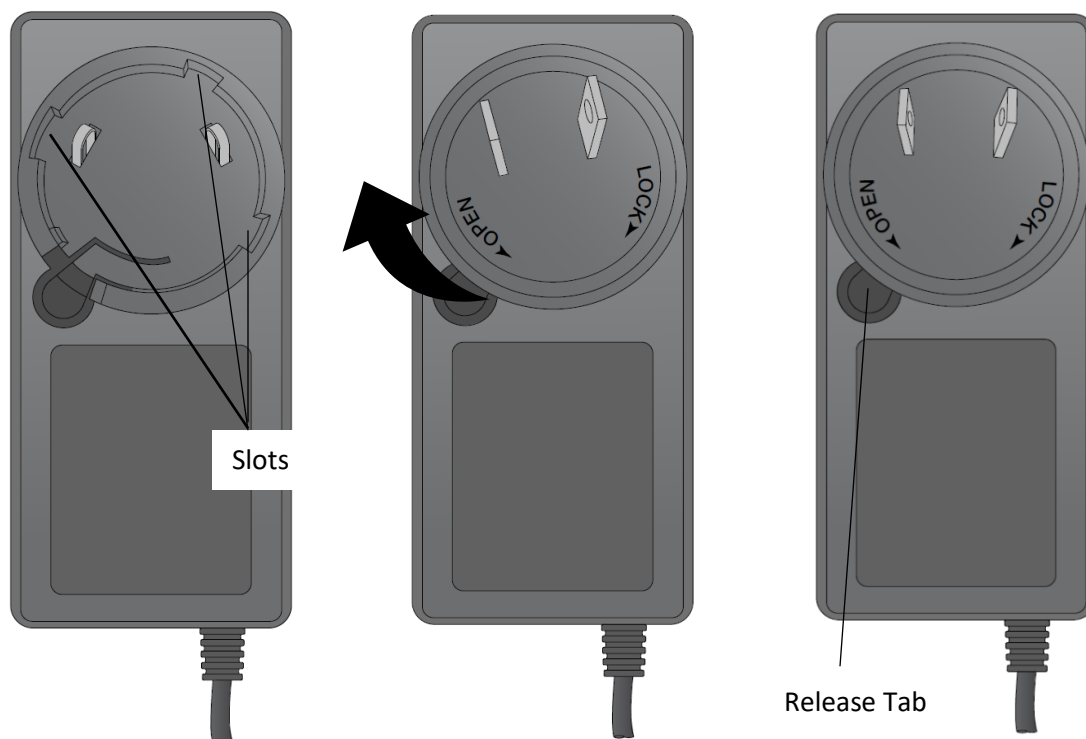
- Connect the 6 Pin Mini Din Cable to the round port on the back of the Printer.



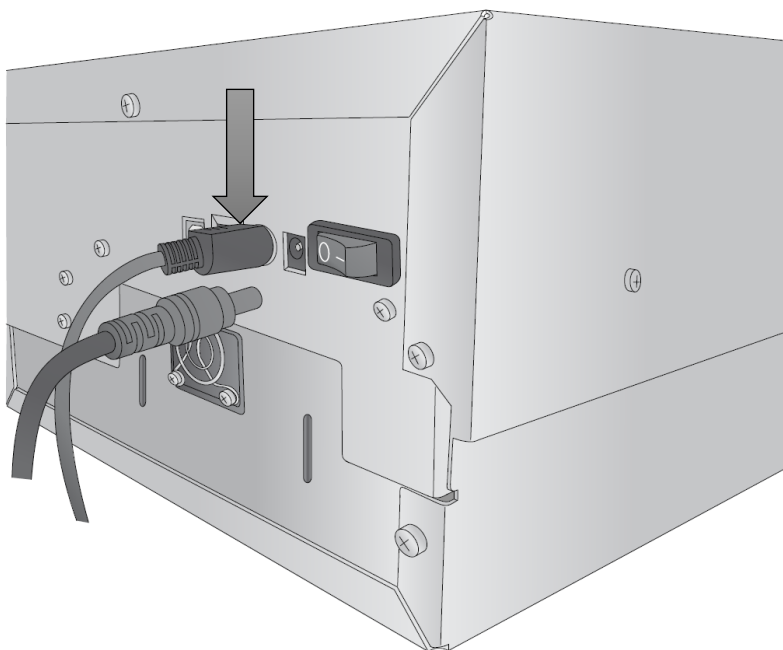
- Locate the Power Supply.



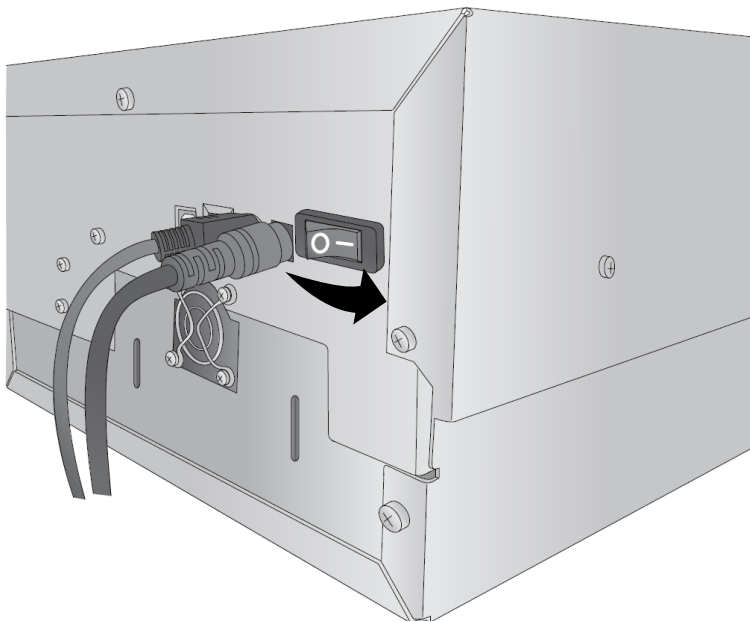
- Install the appropriate adapter by aligning the tabs on the plug to the slots in the power adapter. Rotate the plug until it snaps into place.



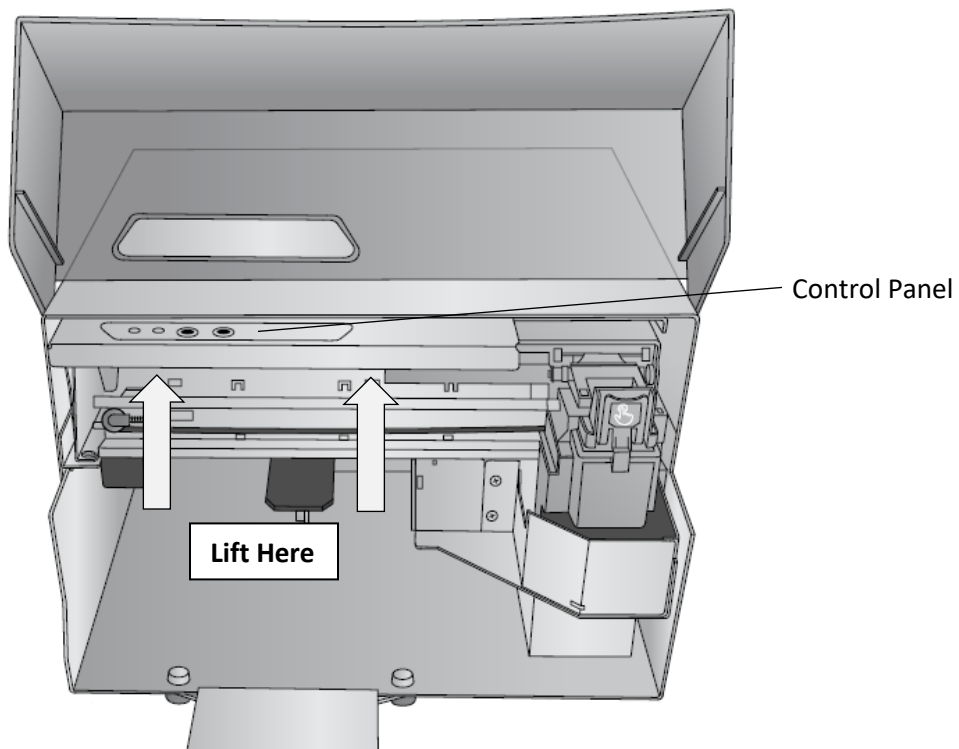
- Connect the Power Brick to a wall outlet and the round barrel connector to the back of the Printer.



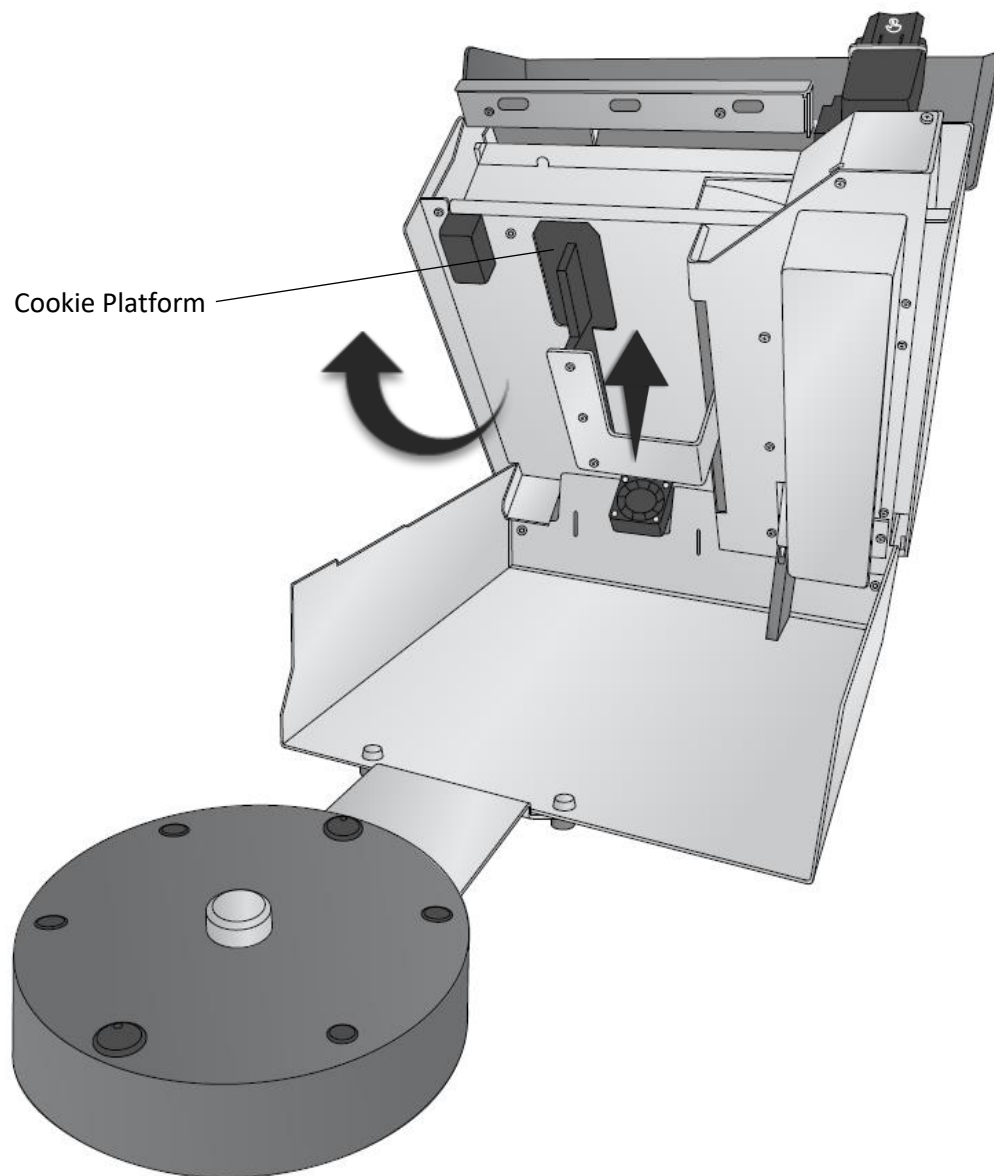
- Switch on the Power Switch.



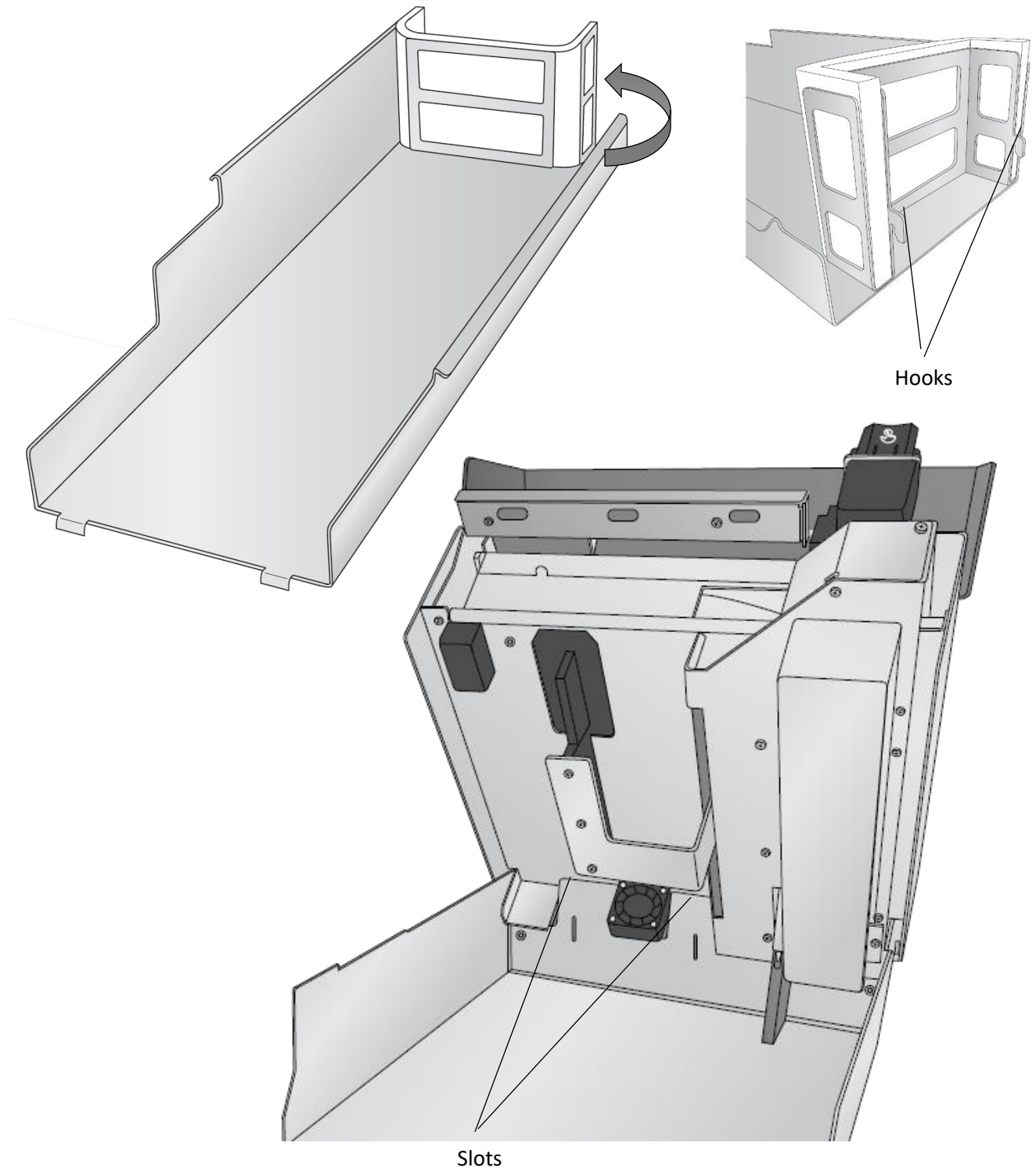
- Lift up on the top section of the Printer just under the control panel.



- The top section of the Printer will open and stay open with a gas spring. As long as the power is on, the cookie platform will move up and out of the way, so you may install the Crumb Catcher.

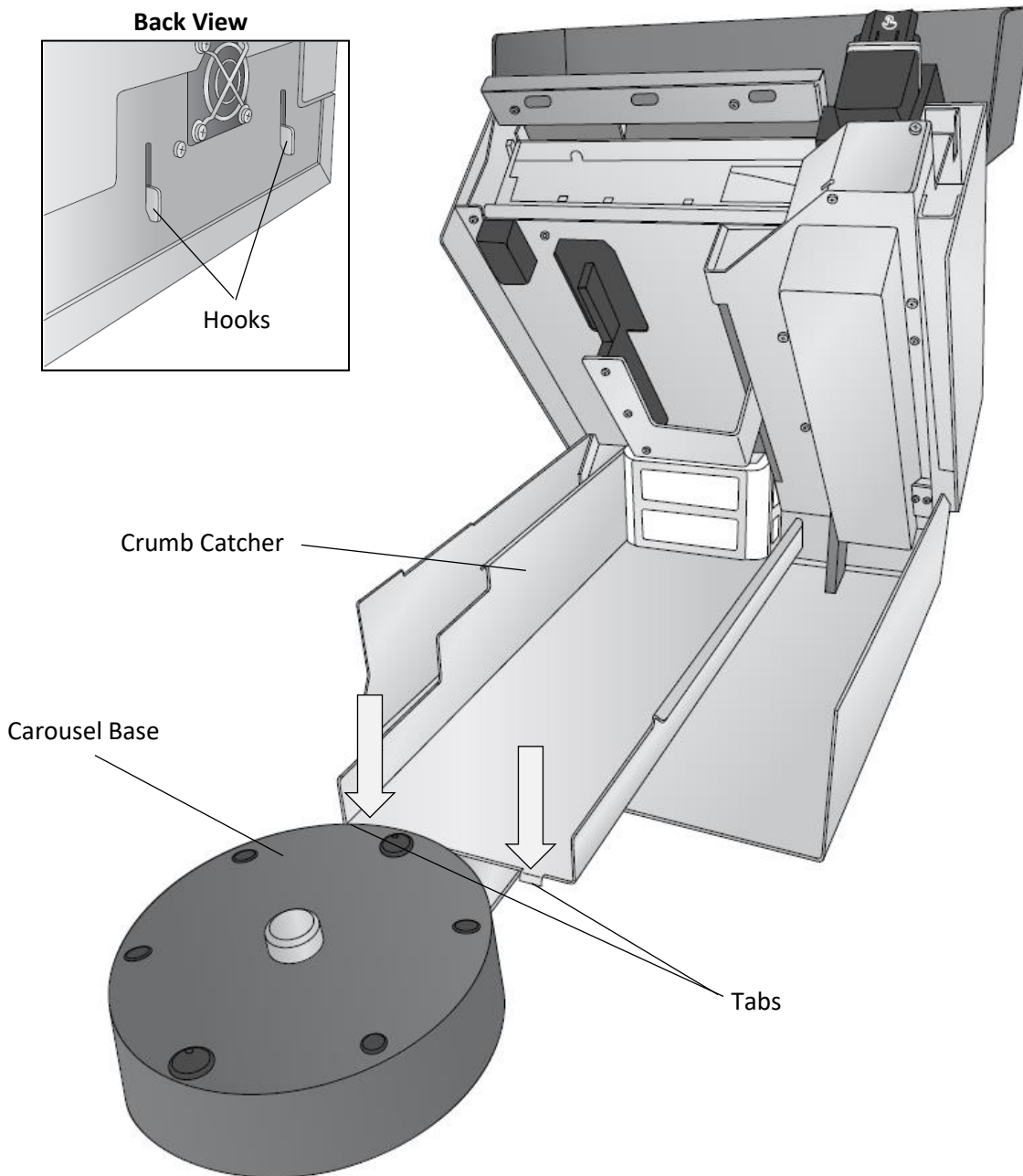


- Locate the Crumb Catcher. There are hooks on the back that correspond to slots on the back of the Printer.



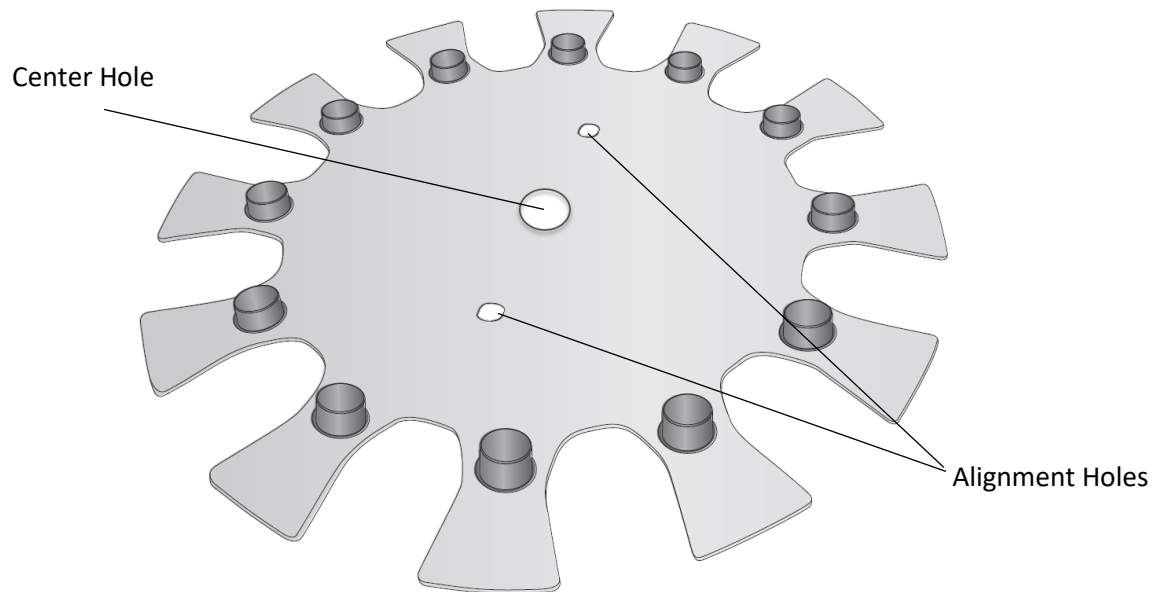


- Install the Crumb Catcher by inserting the hooks into the slots. You will see the hooks through the slots on the back of the Printer. Align the front Crumb Catcher tabs on either side of the Carousel Base connection bracket.

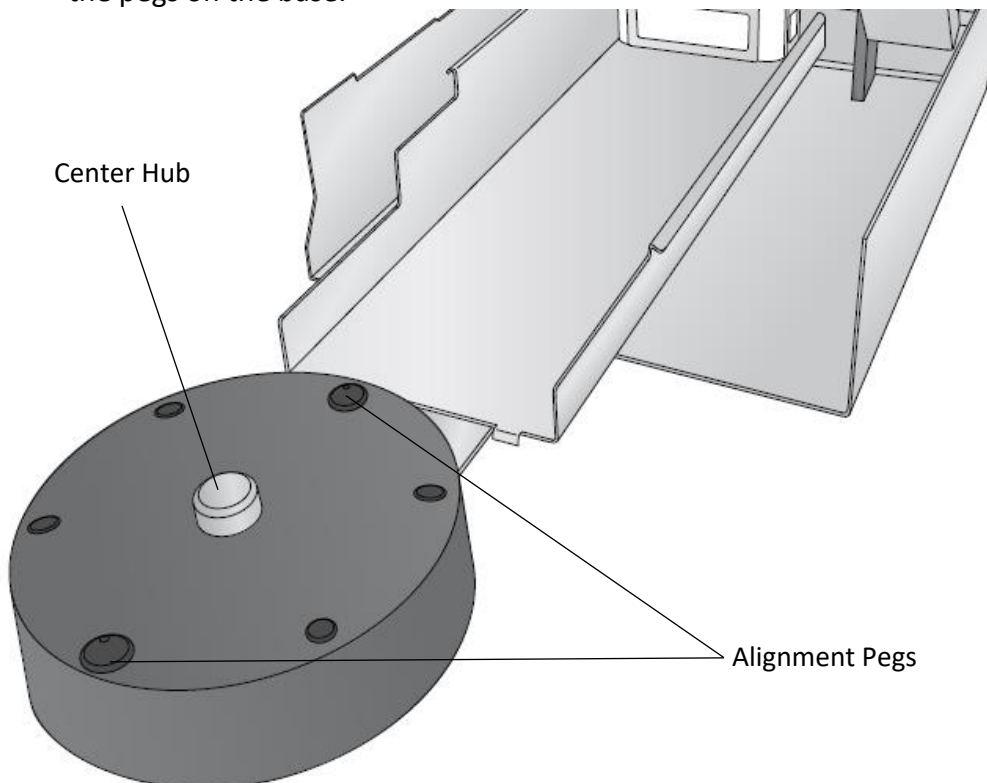


- Lower the Top Section of the Printer.

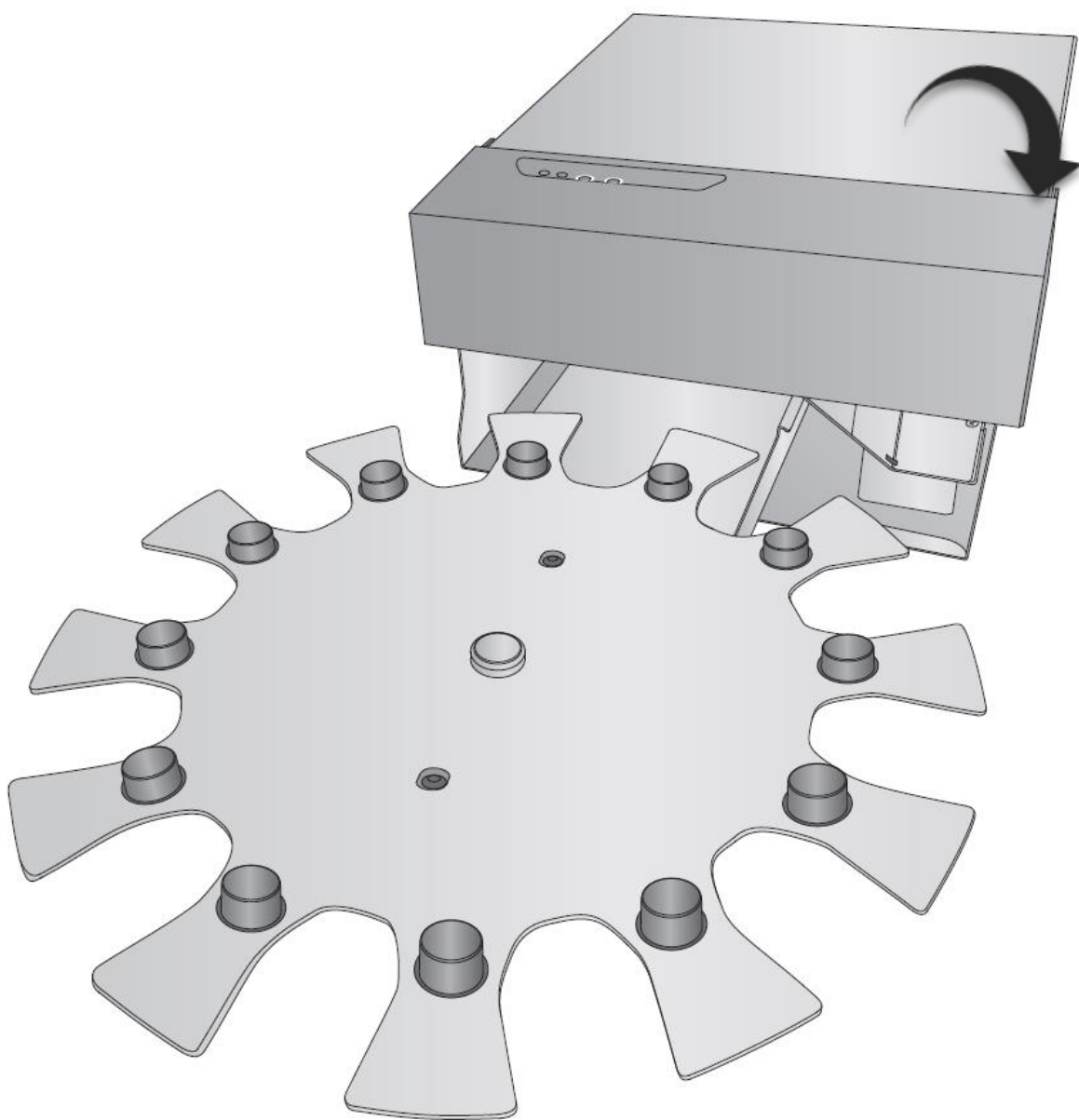
- Locate the Carousel Platter. Note the location of the alignment holes and the Center hole.



- Install the platter by aligning the center hole with the center Hub on the Carousel platter base. Rotate the platter by hand until the holes in the platter are aligned with the pegs on the base.

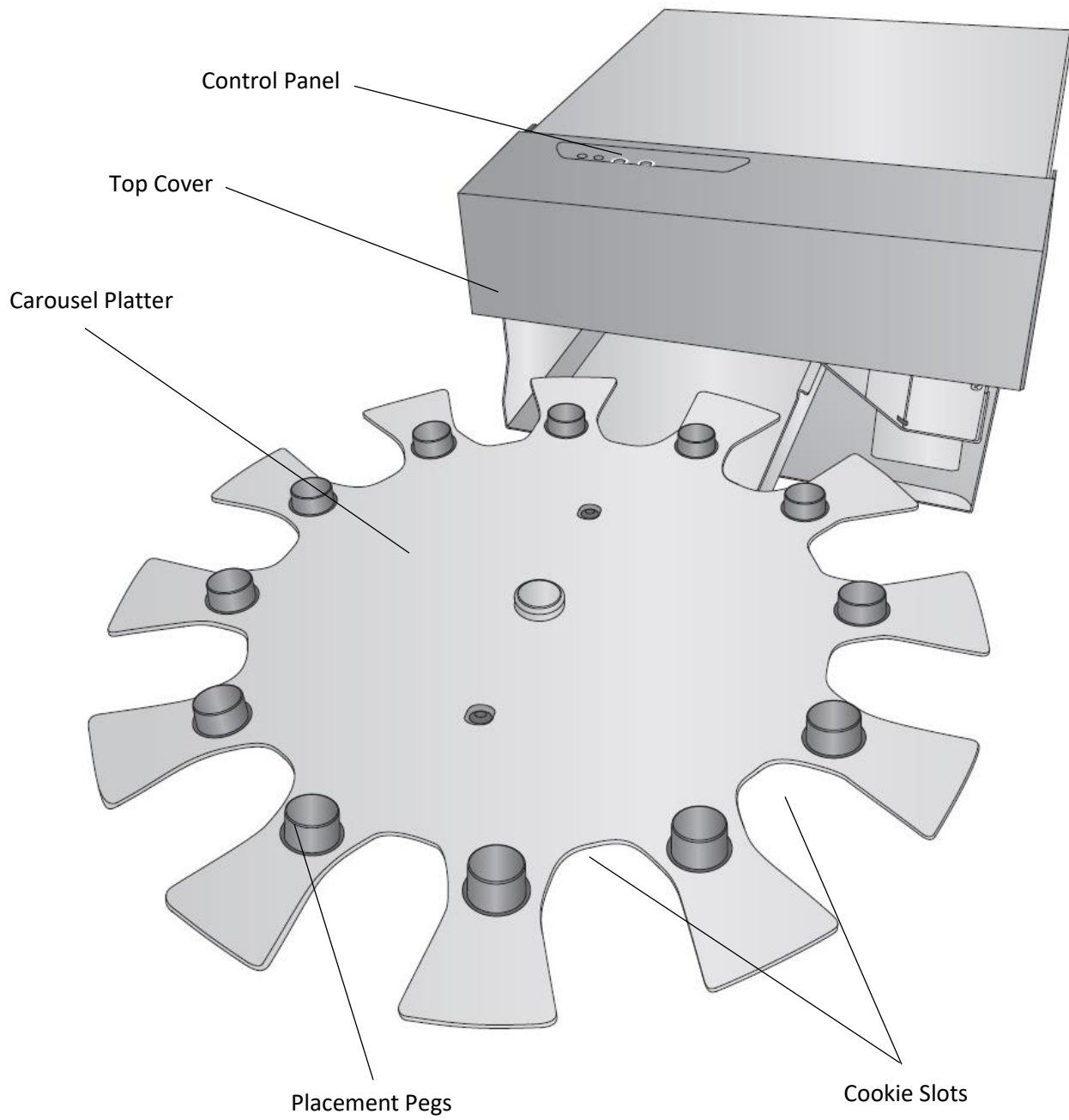


- Lower the top Cover

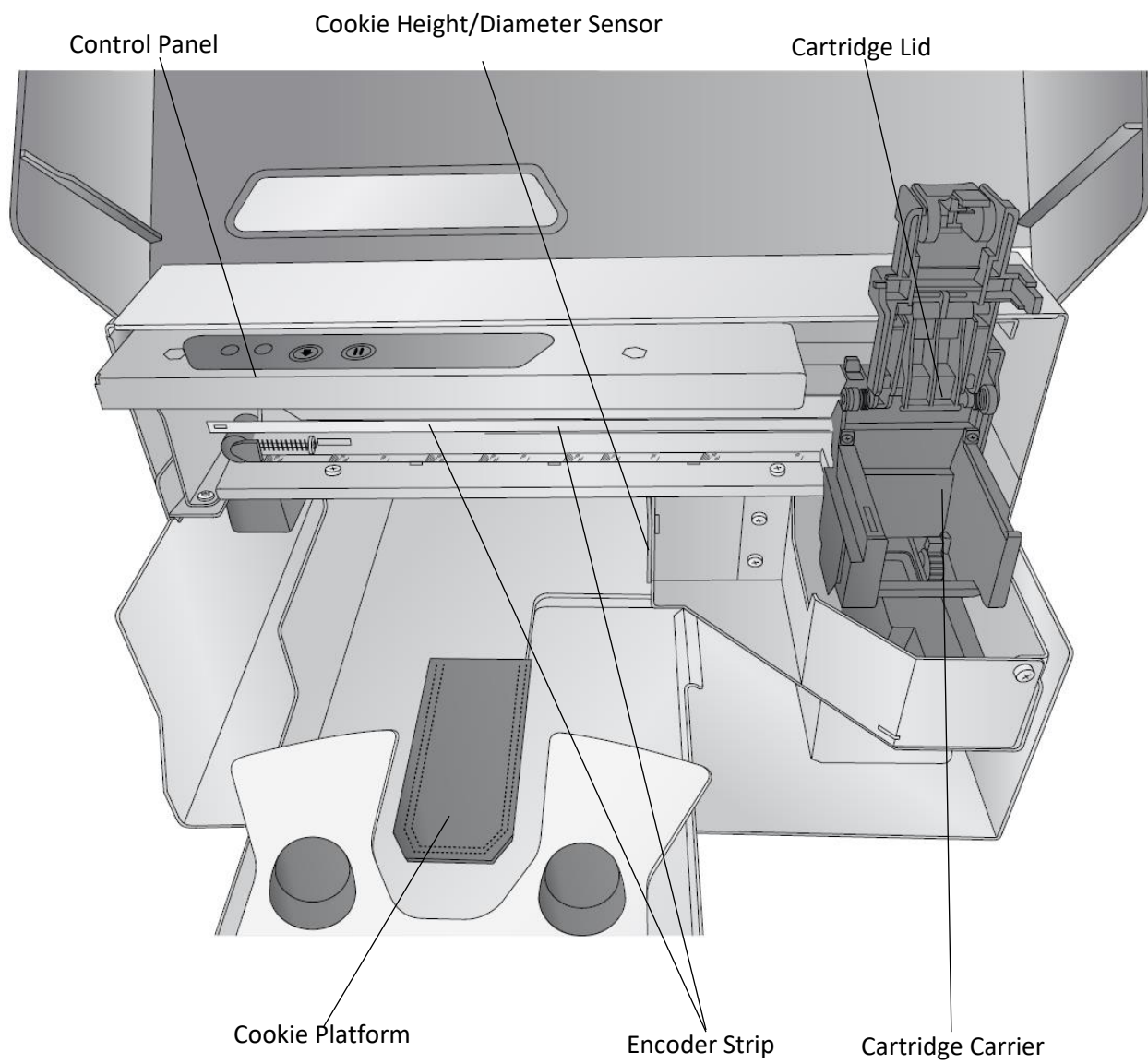


## 1D Identifying the Parts

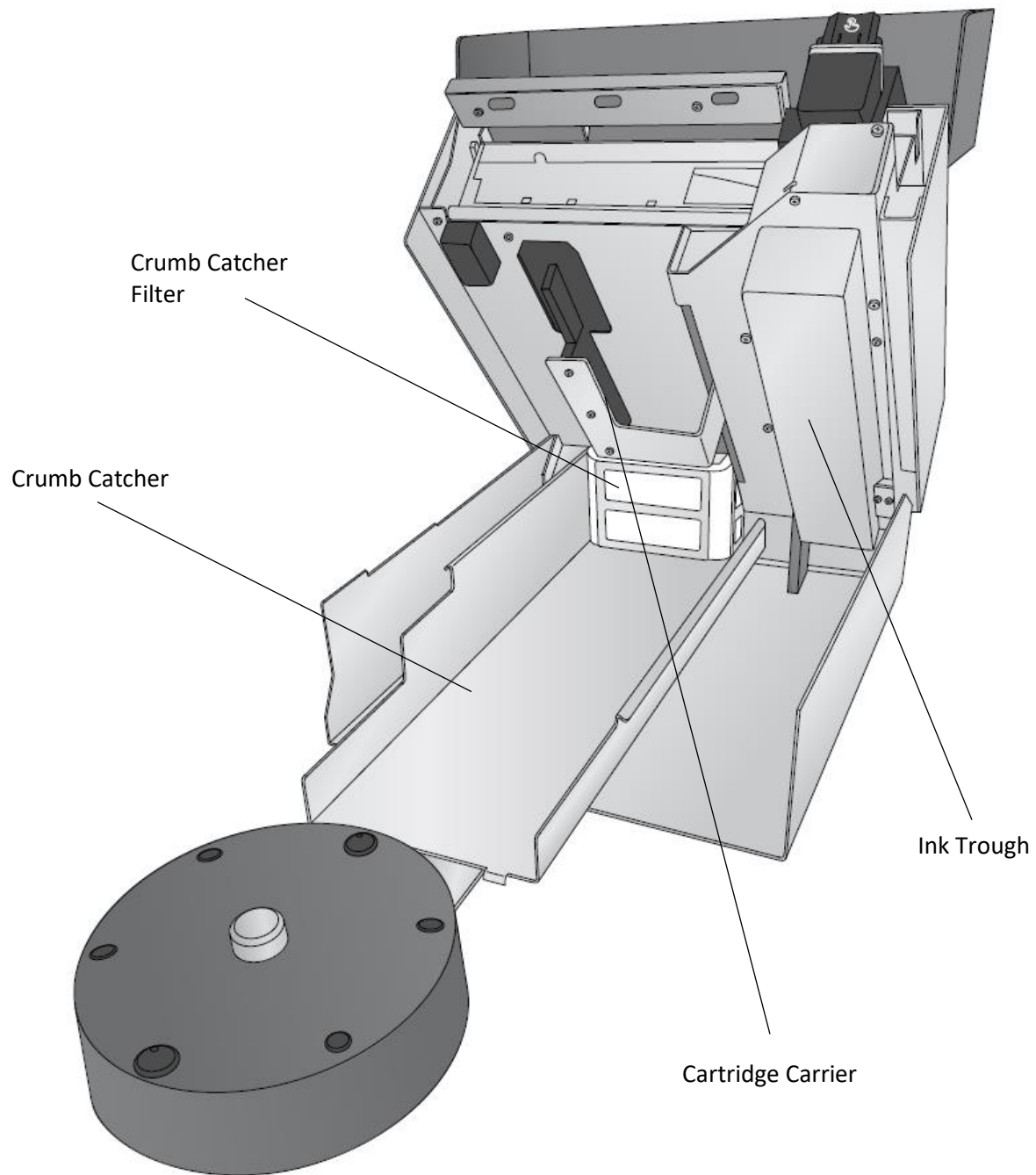
### Assembled View



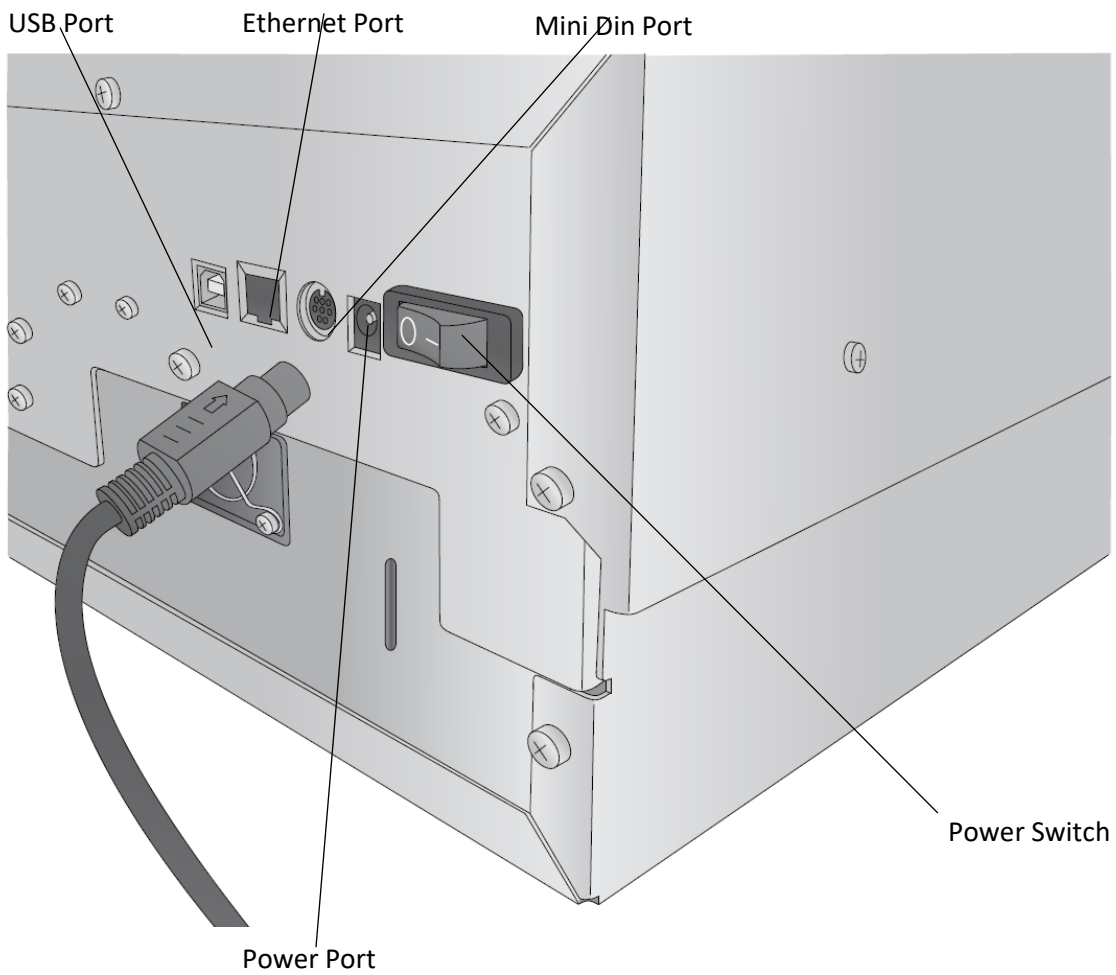
## Interior Carriage View



## Under Carriage View



## Back View



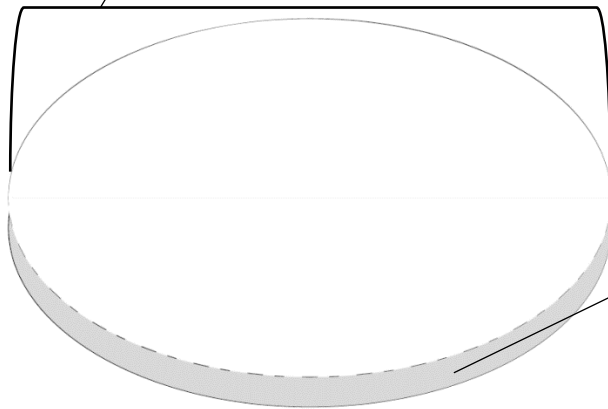
## Section 2: Print Item and Cartridges

### 2A Cookie / Print Item Specifications

#### 1-Carousel Attached – Multiple Cookie Mode

**Width: 1" – 3.5"**

- Included carousel platter requires 3.0" – 3.5" round or square print item.
- Spacers will allow 2.5" – 3.0" round or square prints items. (SKU 053259)



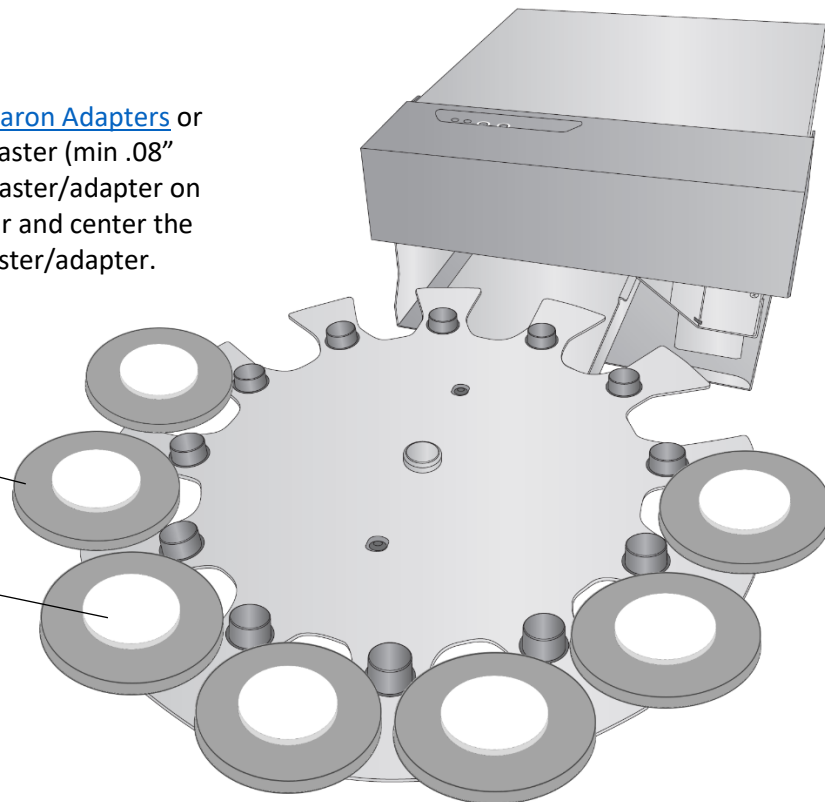
**Height .08" to .75"**

**Width 1" – 2.5"**

- requires 3.5" [Macaron Adapters](#) or similar silicone coaster (min .08" high) Place the coaster/adapter on the carousel platter and center the cookie on the coaster/adapter.

**Adapter or Coaster**

**Cookie Centered**

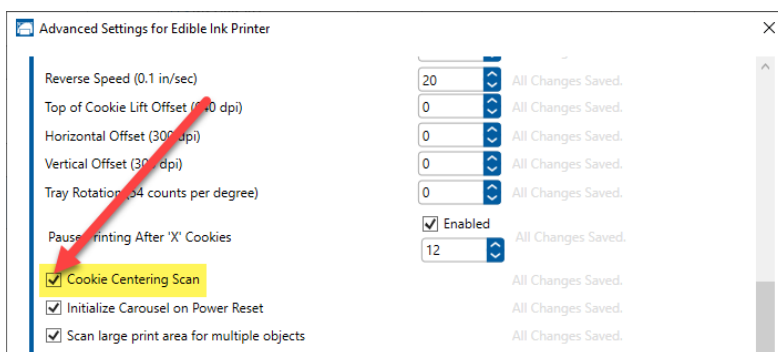
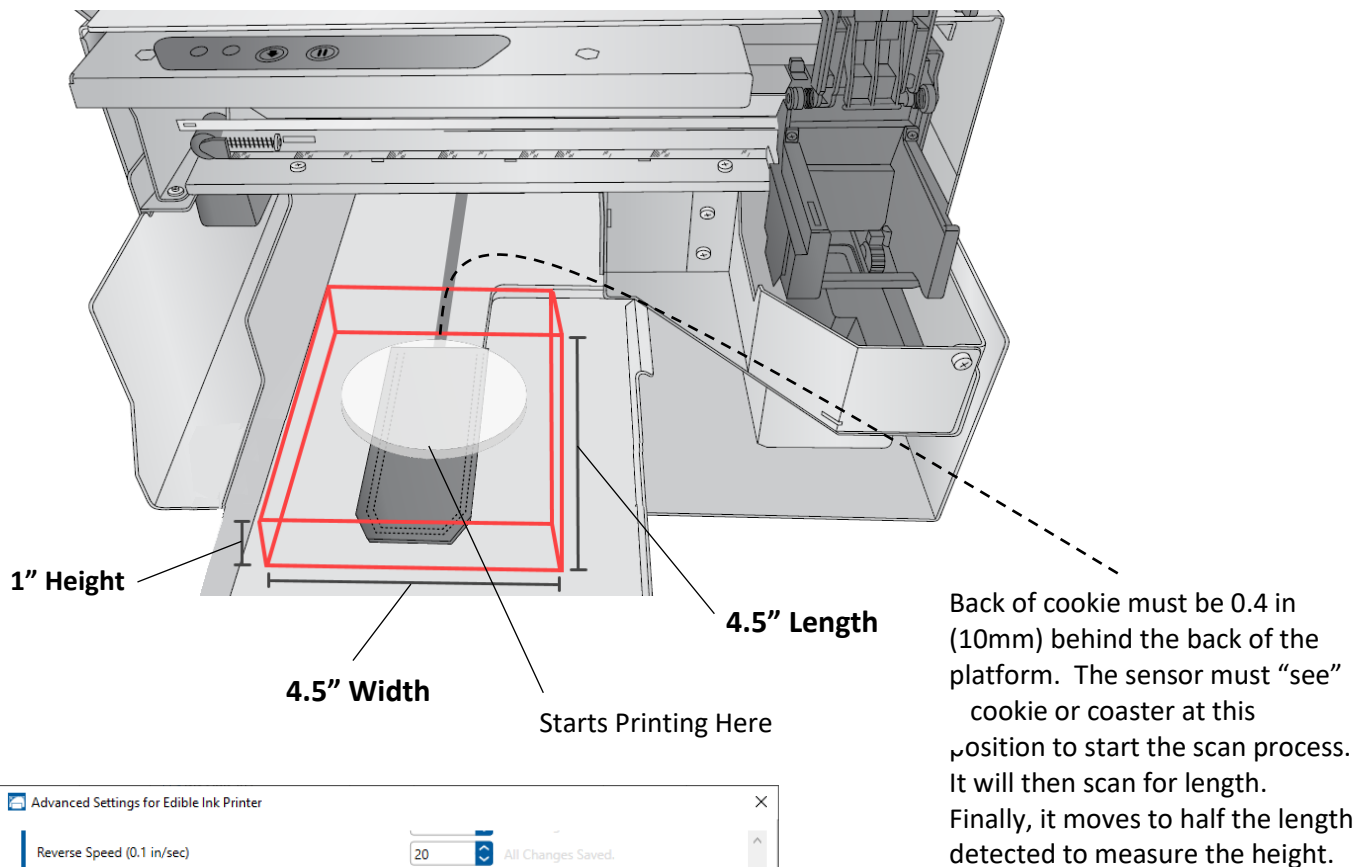




## 2-Manual Mode – Carousel Detached – Single Cookie mode (See section 6E)

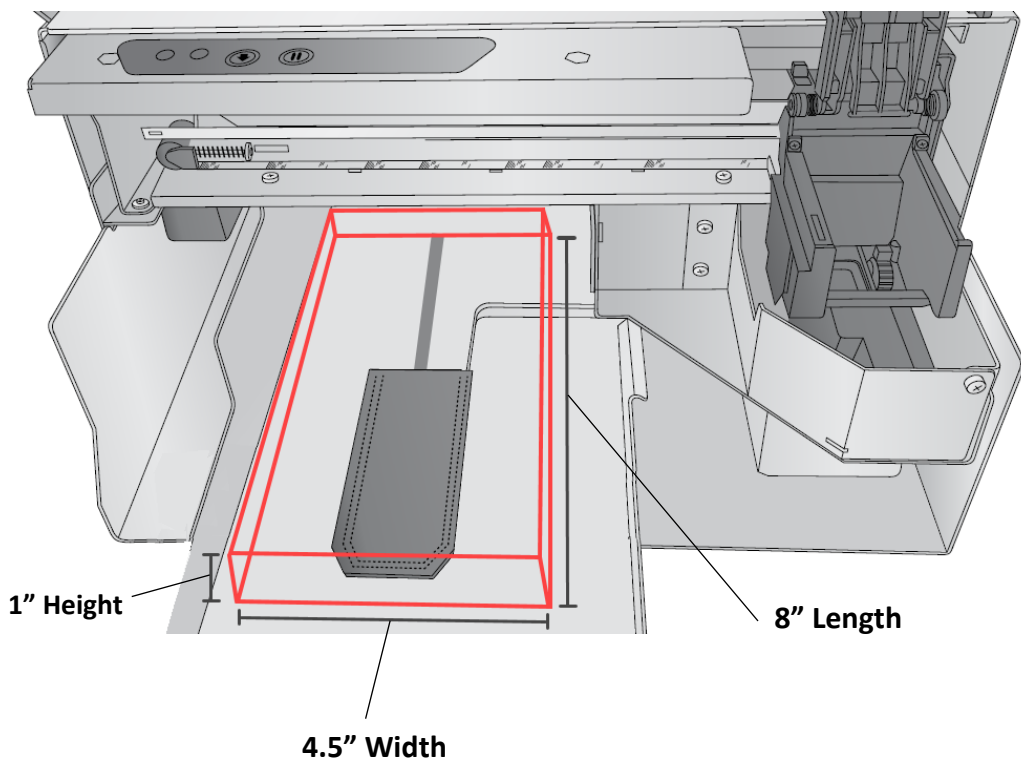
With Cookie Centering Scan Enabled (See Section 3E).

-Any shape that does not exceed 4.5" x 4.5" x 1"

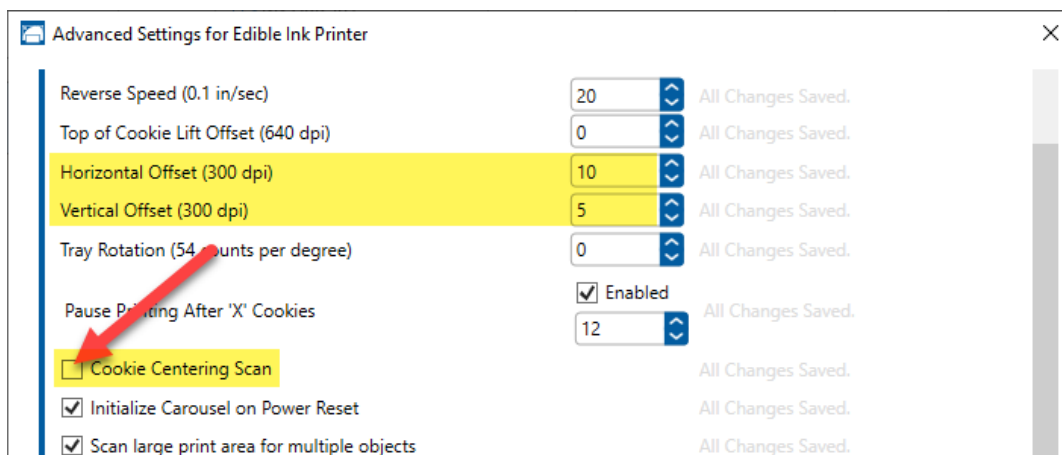


With Cookie Centering Scan Disabled (See Section 3E).

4.5" wide x 1" thick x up to 8" inches long. Any shape or size that doesn't fall off the tray will work. The centering scan has a 4.5" max scan area. When Cookie Centering Scan is disabled, you can use horizontal and vertical offsets to move the image.



**Note:** If you print over 4.5" length, the print will not cover the entire length. The maximum printable area is still limited to 4.72" x 4.72".



### 3-Print Surface Specifications for Best Print Quality

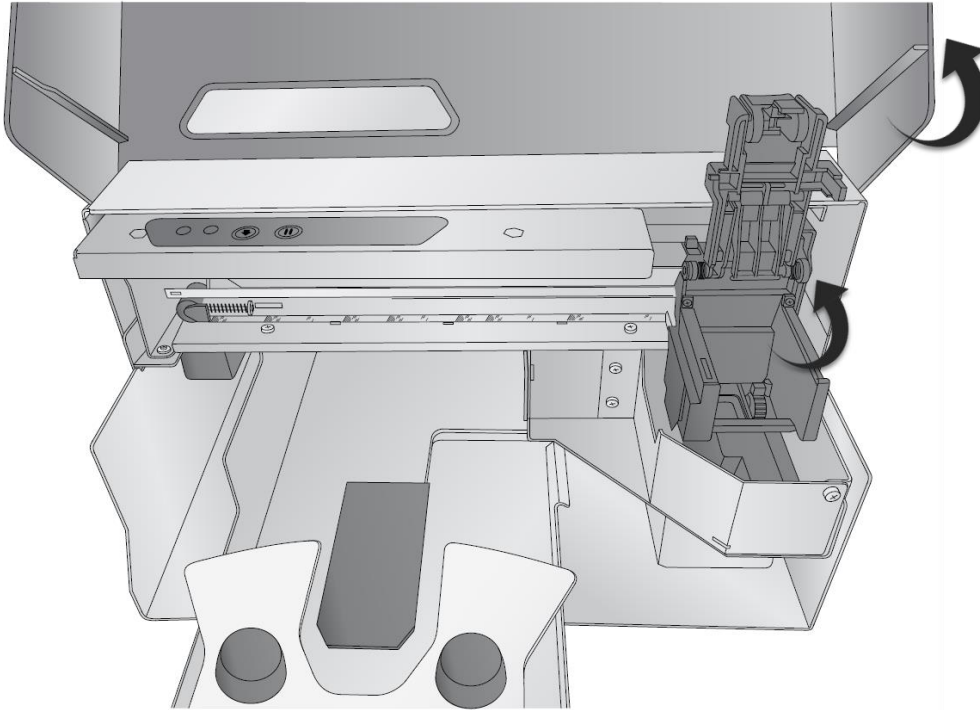
- The surface of each cookie should be frosted with the Primera recommended icing or similar, or use the recipe printed in this manual.
- The surface should be as smooth as possible
- The surface should be hard to the touch and completely dry. To dry the surface, use cornstarch, a dehydrator, a heat gun or wait 24 hours before printing.
- The color of the icing should be bright white for best quality and accurate colors. The white surface makes the Cyan, Magenta, and Yellow colors match as close as possible to the image on your computer screen. It also creates a vibrant bright image.
- Other surfaces can be printed, but colors may not match. For these, it is best to print dark monotone colors that will stand out on darker surfaces. The following surfaces can be printed as long as they conform with the size specifications stated earlier.
  - Sugar cookies
  - Macarons
  - Graham crackers
  - Marshmallows
  - Cake Pops
  - Any shape frosted cookies
  - White chocolate covered cookies (wipe oil from surface before printing)
  - Molded white chocolate toppers (wipe oil from surface before printing)
  - White chocolate buttons (DTM Adapter)
  - Candy (DTM adapter)
  - Fondant (wipe oil from surface before printing)

## 2B Installing / Replacing the Ink Cartridge

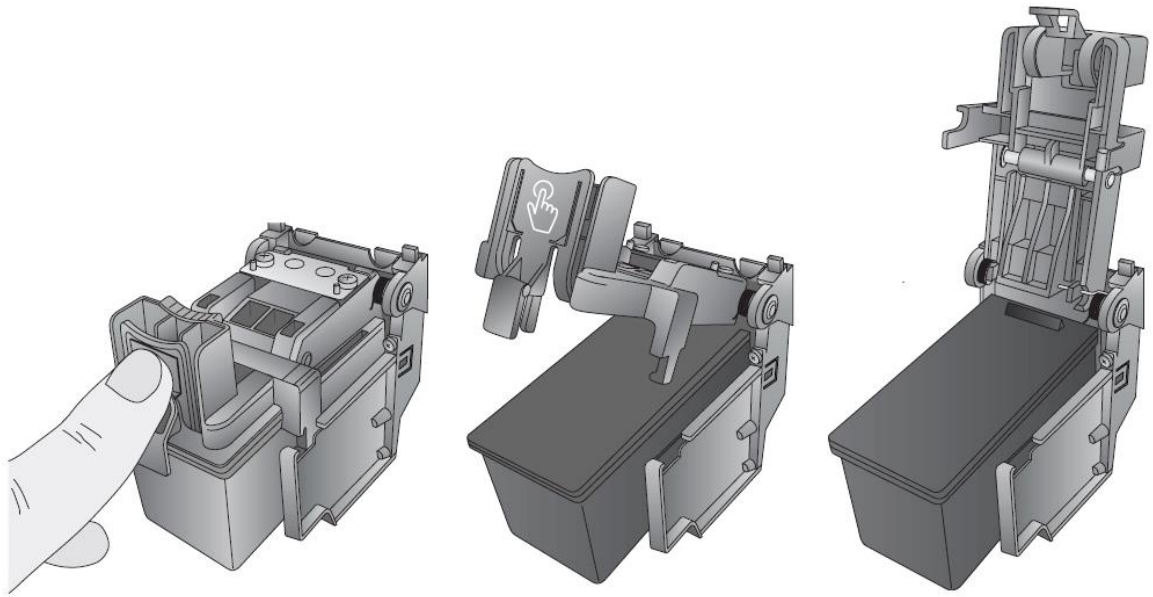
You can replace cartridges at any time or wait for the Low Ink Warning to prompt you to replace cartridges. You will receive low ink warnings at 10% and 0%. Press the Load/Feed button to continue printing after you receive this warning.

To change a cartridge, follow this procedure:

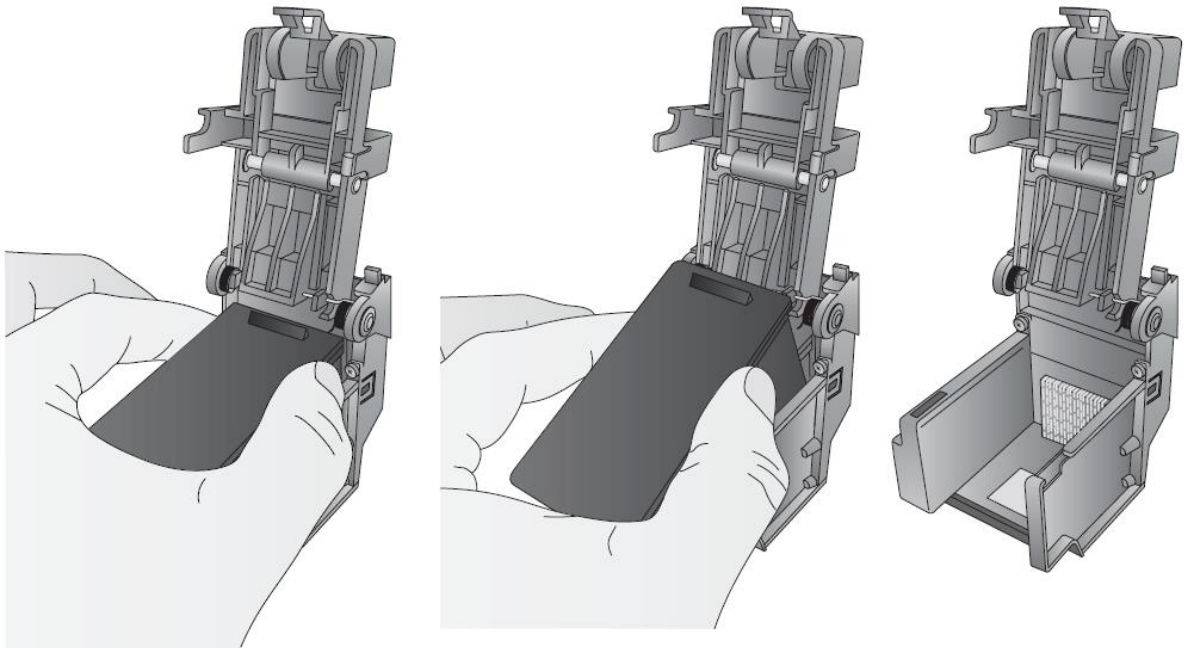
1. Open the front cover. That cartridge will automatically move to the right side if it is not already there.



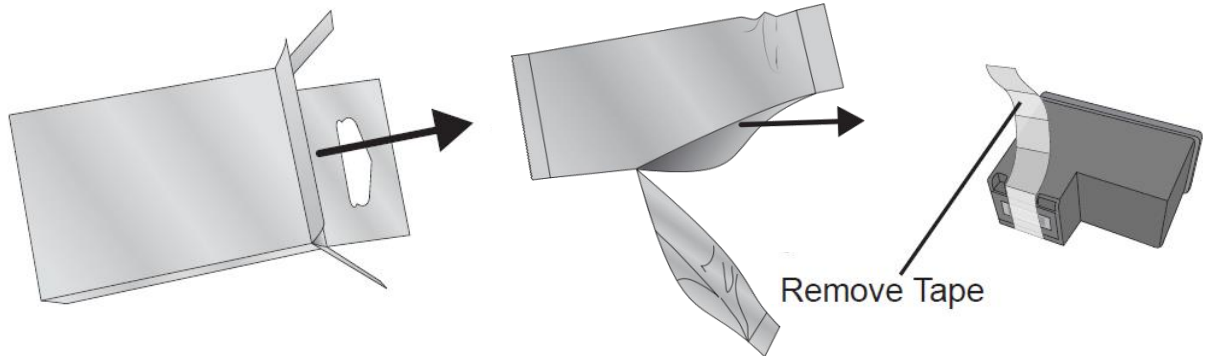
2. Press or pinch the tab on the front of the cartridge holder.



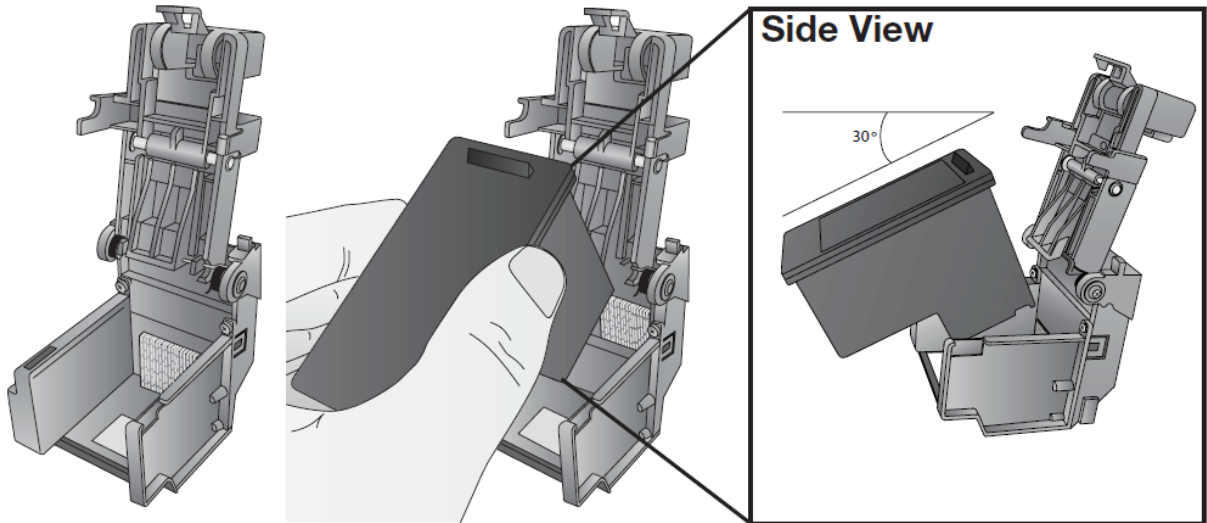
3. Remove the cartridge.



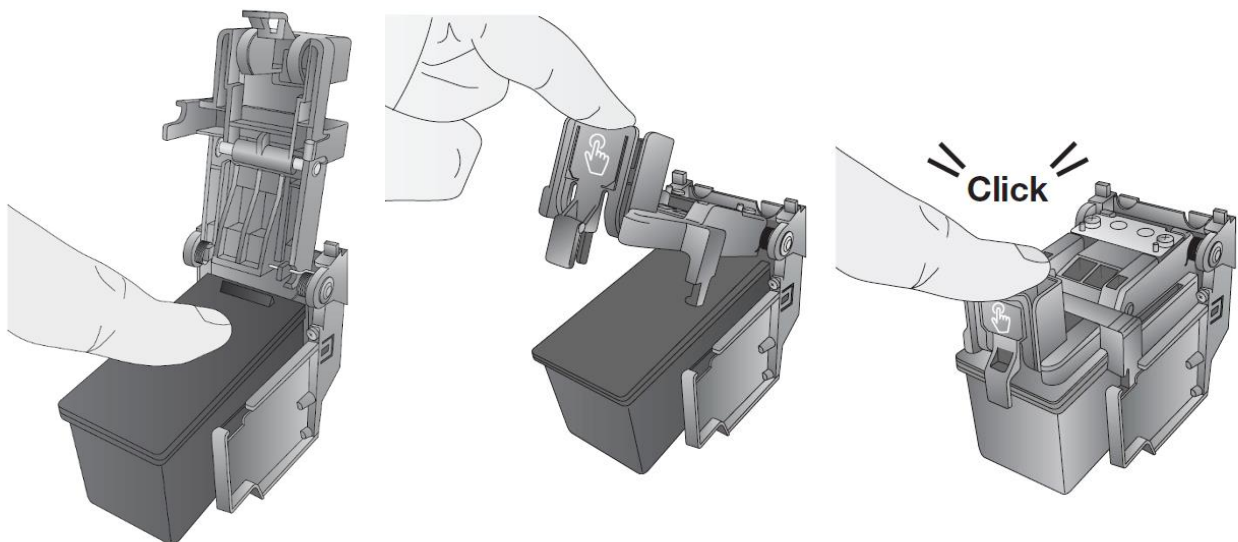
4. Locate a new cartridge and remove it from its packaging. Remove the foil outer package and the tape covering the nozzles.



5. Place the new cartridge into the empty carriage. Note: When installing the cartridge, tilt the cartridge at a slight backward angle of approximately 30 degrees.

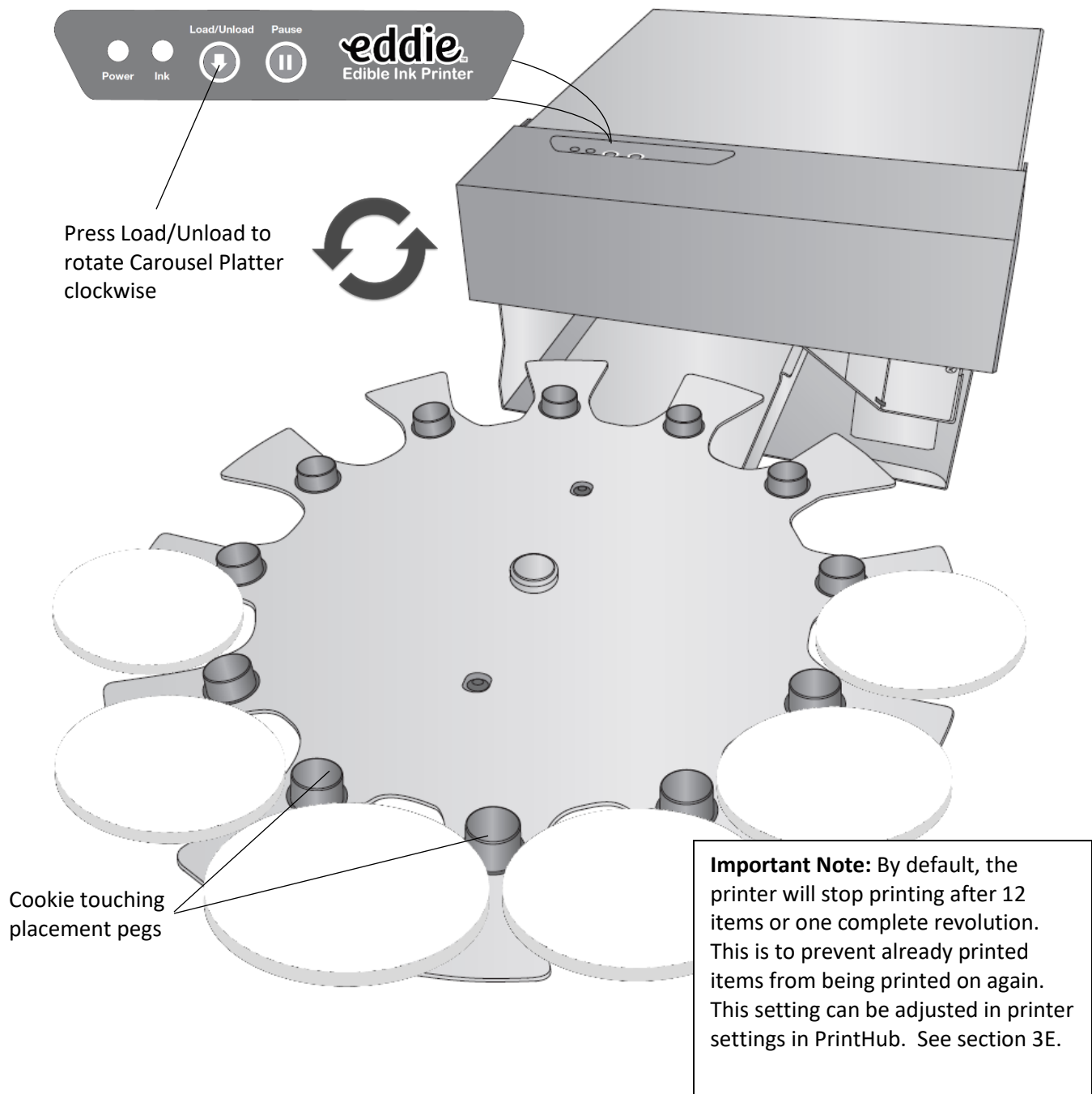


6. Make sure the cartridge is pushed back far enough, so the ridge on the cartridge is behind the spring-loaded pusher on the lid. Push down on the cartridge. Close the lid on the cartridge by lightly pressing down from the top until you hear a click.



## 2C Loading the Print Item

Up to 12 cookies or print items can be loaded on the carousel platter. You can load the cookies near the front first and then work your way to the back. To access the areas under the cover, either lift the cover to place the cookie or press the load/feed button to rotate the platter clockwise until an open slot is accessible. To prevent offset printing and/or the cookie falling off the platter or the cookie platform, the edge of each cookie must touch two of the placement pegs.

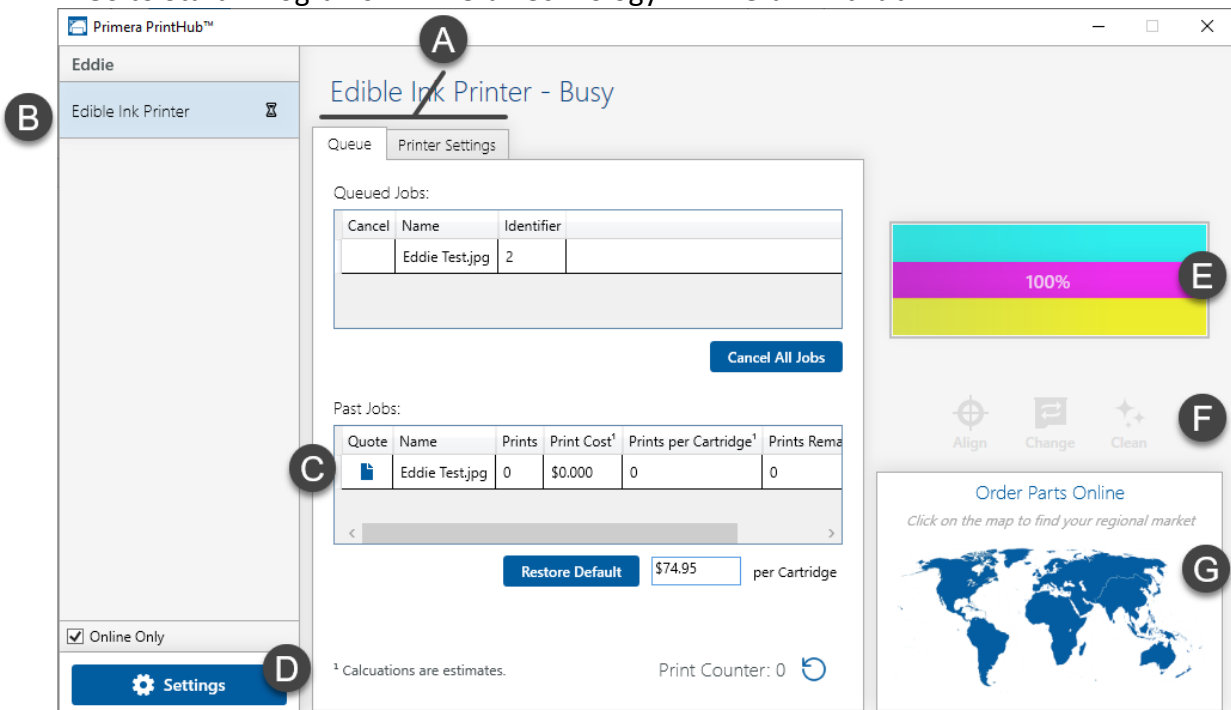




## Section 3 Primera PrintHub

Primera PrintHub is used to interact with the Printer for gathering ink levels, maintenance, alignment, cost calculation, and several other functions. You can use it to manage these functions on multiple Eddie printers and other Primera label printer models. PrintHub automatically installs with your printer driver and can be accessed through the printer driver preferences or as a program on your Windows start menu.

1. Connect the Printer via USB and turn on the power. The PrintHub accesses most of the information it uses from the Printer itself so the Printer must be turned on and communicating for the program to be useful.
2. Go to Start - Programs - Primera Technology - Primera PrintHub.

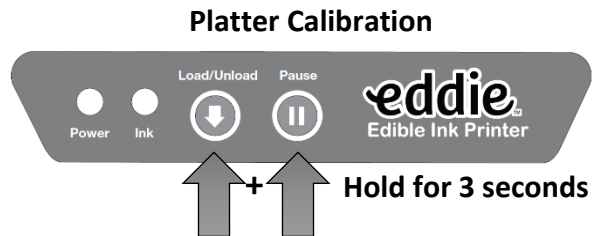


- A. View the print queue, printer settings, and advanced alignment settings.
- B. If you have multiple Primera printers connected, they will be listed here.
- C. Past jobs will show the last five jobs along with cost information. Click the document icon to view a cost report.
- D. Application Settings
- E. Current Ink Levels (Ink is displayed in 10% increments. Example 100% to 90% to 80% etc.)
- F. Frequent Activities
- G. Order Link



### 3A Calibrating the Carousel Platter / Demo Mode

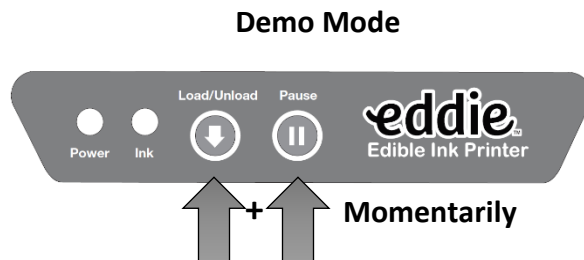
If cookie lifting and placement is out of alignment, you can do a calibration manually.



Press and hold the Load/Unload button and the Pause button simultaneously for 3 seconds. The Carousel Platter will make a 1 and  $\frac{1}{4}$  revolution. The calibration is now complete.

To check for proper calibration, you can press the Load/Unload button to attempt to lift the next cookie. The cookie platform should rise exactly between the access slot on the carousel platter.

**To place the Printer in demo mode**, press momentarily press both the Load/Unload and Pause buttons simultaneously.

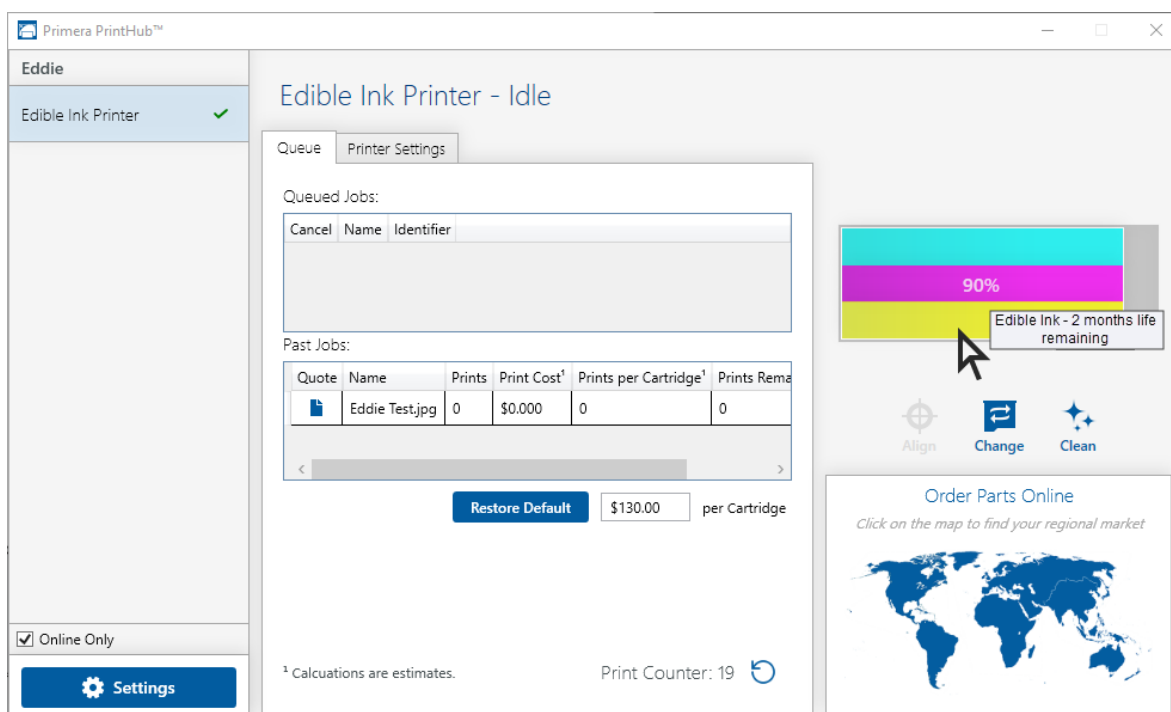


Demo mode will lift cookies, retract them for printing and go through the motions of printing (but not print on them) and then immediately replace them on the platter continuously until you press the pause button.

### 3B Cartridge Life/Best By Date

Sealed cartridges are best for one year after the manufacture date. The best by date is printed on the cartridge box. FDA regulations require a best by date on the packaging. Keep in mind, expiration dates and best by dates have very different meanings. Expiration dates tell consumers the last day a product is safe to consume. On the other hand, best by date tells you that the food is no longer in its perfect condition from that date. It may just lose its freshness, taste, aroma, or nutrients. The best by date is essentially a quality indicator. Since Primera Eddie ink is similar to food coloring, it has no nutritional value or taste to contribute to the overall food product. You can be assured that using the ink beyond the best by date is safe as long as the ink is still sealed in its foil packaging.

However, once opened, cartridges last for six months. PrintHub will start tracking the six months from the first time they are used in the Printer. Hover over the ink levels to see the remaining life after opening. Once you pass the six-month opened point, the PrintHub software will warn you every time you print that your cartridge is expired and should be replaced.



**Note:** Two different types of ink are available; 53498 is approved for use in the USA and Canada, 53499 is approved for the European Union (EU). Cyan and Yellow are identical in both ink formulations. The only difference is with the composition of the Magenta ink. The USA Magenta ink contains Red Dyes #3 and #40 and Blue Dye #1, which are not permitted for use in food colorings in the EU. The EU Magenta contains carmoisine, which is not approved for use in food colorings in the USA. To learn which Magenta ink is approved for use in countries other than the USA and Europe, please first check with your local authorities. Or, contact us at Primera. We may have additional information available that is specific to your country.

### 3C Using the Cost Estimator

The cost estimator is found under the queue section on the first tab of the PrintHub. The last five job costs are stored in the list. Each job will show the cost per label based on the cost per cartridge entered below the list. Enter the actual cost of the cartridge you paid. Prints remaining on the currently installed cartridge and total prints on the new cartridge are both displayed.

The screenshot shows the Primera PrintHub™ software interface. On the left, a sidebar lists 'Eddie' and 'Edible Ink Printer' with a green checkmark. The main window is titled 'Edible Ink Printer - Idle' and has two tabs: 'Queue' and 'Printer Settings'. The 'Queue' tab is active, showing a 'Queued Jobs' section with a table with columns 'Cancel', 'Name', and 'Identifier'. Below this is a 'Past Jobs' section with a table showing the last five jobs. The table has columns: Quote, Name, Prints, Print Cost<sup>1</sup>, Prints per Cartridge<sup>1</sup>, and Prints Rem. The jobs listed are 'Birthday.btw' (twice) and 'Valentine.btw' (twice). Below the table is a 'Restore Default' button and a text field showing '\$130.00 per Cartridge'. At the bottom left, there is a 'Settings' button and a checkbox for 'Online Only'. At the bottom right, there is a 'Print Counter: 24' and a refresh icon. On the far right, there is a vertical bar with a 90% fill level indicator and buttons for 'Align', 'Change', and 'Clean'. Below these is a section titled 'Order Parts Online' with a map and the text 'Click on the map to find your regional market'.

Quote	Name	Prints	Print Cost <sup>1</sup>	Prints per Cartridge <sup>1</sup>	Prints Rem
	Birthday.btw	1	\$0.055	2369	2141
	Birthday.btw	1	\$0.055	2369	2141
	Corporate.btw	1	\$0.120	1085	1085
	Valentine.btw	1	\$0.188	691	691
	Valentine.btw	1	\$0.188	691	691

<sup>1</sup> Calculations are estimates.

**Note:** A 3.5" round cookie with 50% coverage will cost approximately \$0.06 per cookie. However, this is a rough estimate since there are so many variables. There are two reasons. First, there is a +/- tolerance of about 5% in the ink filling process, and second, there are no fill-level sensors in the ink cartridge. The printer firmware counts down "spits" of ink which can be depleted somewhat faster if you do a lot of short runs of 25-30 or less cookies at a time. To keep the print head ready for printing, the software does a cleaning cycle maintenance spit into the ink trough at the beginning of each print run. Also, the Printer will do periodic maintenance while it is idle but plugged in and switched on. Finally, you can almost always go past 0% since we are very conservative in estimating how much ink is initially in the cartridges. We typically overfill cartridges slightly to make sure you receive all the ink you are paying for.

Print Job Report

Edit Print Job Report

Job Name

Birthday.btw

Currency To Use

\$ : US Dollar

Cartridge Cost

\$130.00

Save

Print

Primera Edible Ink Printer

Cost Report for: Birthday.btw

Cartridge Cost: \$130.00

Estimated Ink Cost per Print\$0.055

Per Print Details

Cost per Print	\$0.055
Time per Print	19.3 seconds
Cartridge Percentage per Print	0.000%

Job Details

Prints	1
Time Elapsed	0 hours 0 minutes 19 seconds
Prints per Full Cartridge	2369

Please note: all calculations reported by this tool are estimates only. Actual ink yield and cost per print you experience can be different depending upon variables such as how many prints you tested to receive your results.

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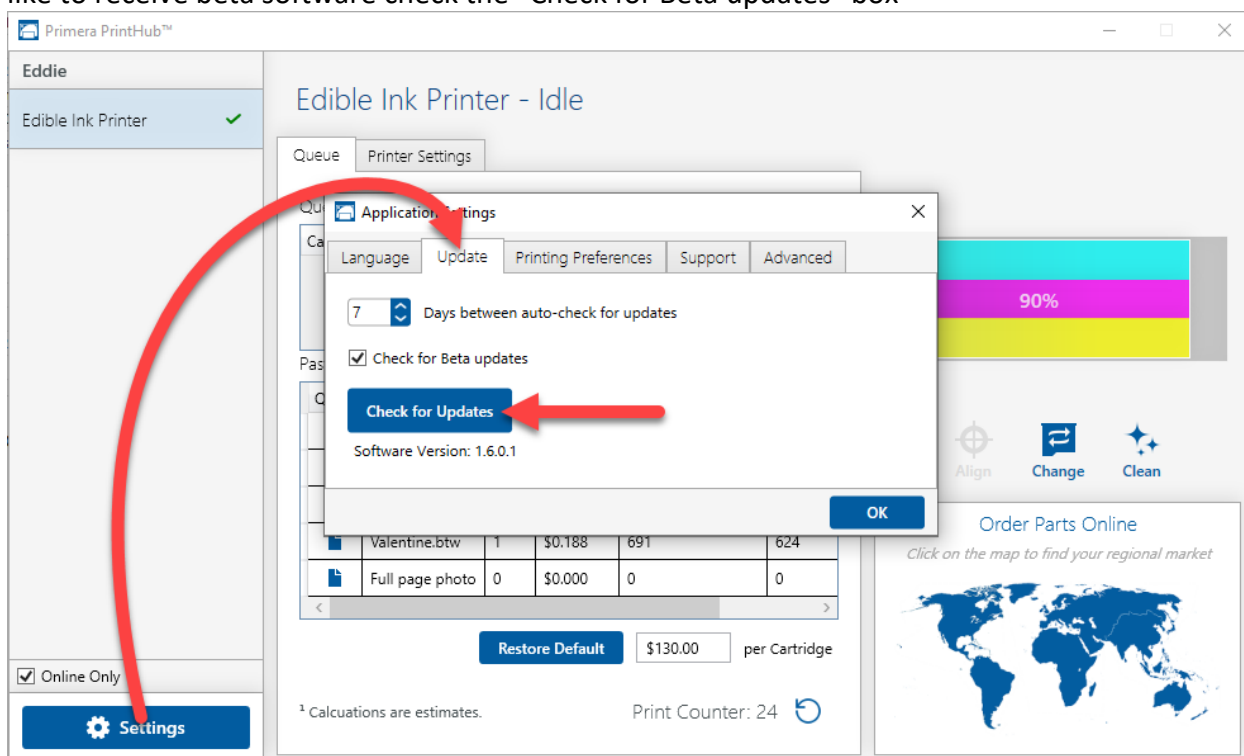
75%

## 3D PrintHub Settings

General application settings that apply to the software and all printers can be found by clicking the blue "Settings" button in the lower left. Printer-specific settings can be found on the "Printer Settings" Tab. See next section.

**Language.** Typically, the language is set to match the language setting in the operating system. However, you can override currency settings on the Language Tab.

**Automatic Updates.** Automatic Updates will update PrintHub, the printer driver and the printer firmware. Every 7 days you will be prompted to update the software if there are any newer versions. You can choose to increase or decrease that automatic check. You can also perform a check for updates immediately by clicking the "Check for Updates" button. Finally, if you would like to receive beta software check the "Check for Beta updates" box



**Printing Preferences.** You can choose to close PrintHub after printing completes by checking the "Close this application after printing completes" box. PrintHub automatically opens whenever you send a print job to the Printer. If you do not want PrintHub to open in front of other programs, you can check the "Launch minimized during print" option.

**Support.** Click the "Generate Support Report" button to generate a zip file on your desktop containing all recent log files. Send this to tech support so they can help solve any printing problems.

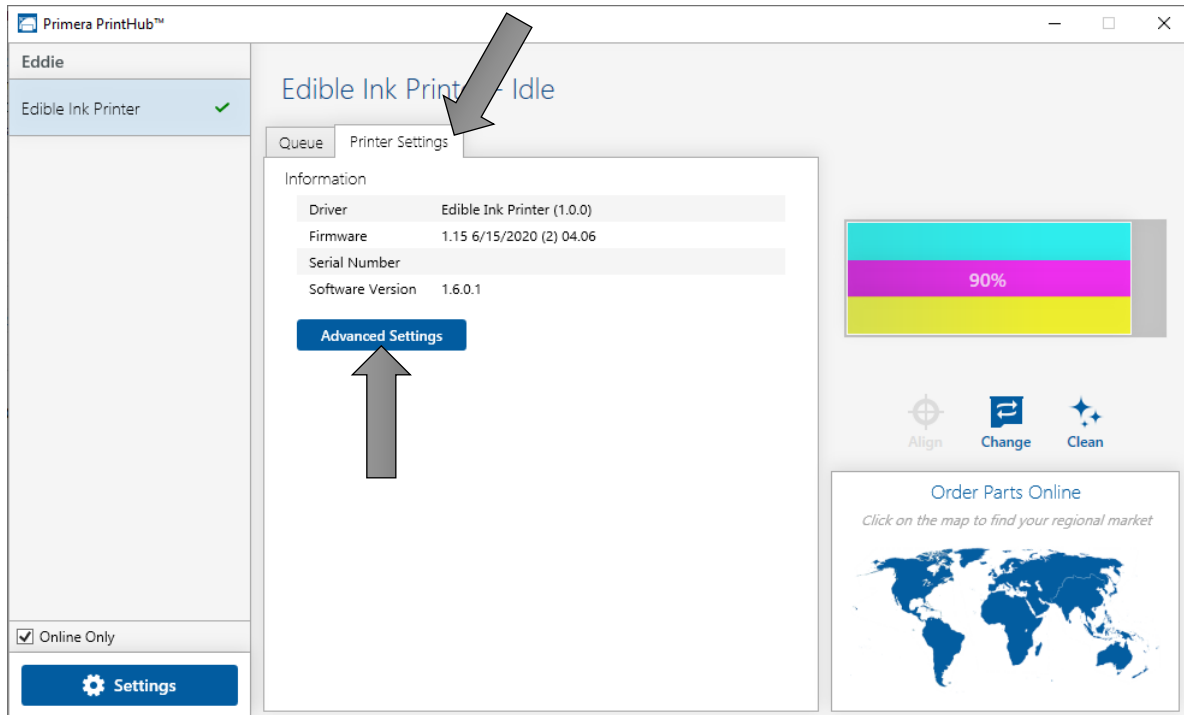
**Advanced.** Check the "Generate Printer Status XML" box to create an XML at

"C:\ProgramData\PTI\PrintHub\PrinterStatus.xml".

Software developers can use this file to display status information such as error messages and ink levels in 3rd party applications.

### 3E PrintHub Advanced Printer Settings

Printer settings can be found in Primera PrintHub on the Printer Settings Tab for Eddie.



This section displays all current driver, software, and firmware versions.

**Advanced Setting Button.** Click the Advanced Settings button to view the following settings.

**Advanced Settings for Edible Ink Printer**

**General**

USB Serial Number  
Modify the USB serial number to use multiple Eddie printers on this computer. After setting a new number, this printer will restart under another name.

001 **Generate** **Set**

Return user settings to default values **Restore Factory Defaults**

**Cartridge**

Perform Wiper Maintenance if print quality is poor at the beginning of a print **Wiper Maintenance**

Seconds between Maintenance Spits 6 **All Changes Saved.**

Pages between Maintenance Wipes 30 **All Changes Saved.**

**Advanced Eddie**

Feed Speed (0.1 in/sec) 20 **All Changes Saved.**

Reverse Speed (0.1 in/sec) 20 **All Changes Saved.**

Top of Cookie Lift Offset (640 dpi) 0 **All Changes Saved.**

Horizontal Offset (300 dpi) 0 **All Changes Saved.**

Vertical Offset (300 dpi) 0 **All Changes Saved.**

Tray Rotation (54 counts per degree) 0 **All Changes Saved.**

Pause Printing After 'X' Cookies ☒ Enabled **All Changes Saved.**

12 **All Changes Saved.**

☒ Cookie Centering Scan **All Changes Saved.**

☒ Initialize Carousel on Power Reset **All Changes Saved.**

☒ Scan large print area for multiple objects **All Changes Saved.**

☐ Enable Half-Speed Printing **All Changes Saved.**

LED: Blue Activation Mode **Alternate On Print** ☐ Flash on Error **All Changes Saved.**

LED: Green Activation Mode **Alternate On Print** ☐ Flash on Error **All Changes Saved.**

LED: Blue Brightness 14 **All Changes Saved.**

LED: Green Brightness 15 **All Changes Saved.**

LED: Power Brightness 15 **All Changes Saved.**

LED: Pause Brightness 15 **All Changes Saved.**

**OK**

## General Settings

### 3E1. Multiple Printer Support.

You can install multiple printers to the same computer and use them simultaneously. To do so you will need to change the USB serial number identifier of one of the two printers, two of three printers, three of four printers etc. To change serial numbers:

1. Connect each new Printer one at a time. The current USB Serial Number will be displayed.
2. Click Generate. It will find the next available USB Serial Number based on the currently connected printers. For the first one it should set it to 2 and for the next printer 3 and so on.
3. Click Set. You will hear the Printer reset and the settings window will turn gray. After it resets you will be able to see the settings window again. Keep the Printer connected.

4. Now you can connect the next Printer. Windows will automatically install a new driver for that new Printer and name it Edible Ink Printer (Copy 1). You can rename it later by editing the printer properties in the Windows printer list.
5. You will now see a second printer appear in the left column – Edible Ink Printer (Copy 1). Click on it to display information about this Printer. If this is the last Printer, you will connect you are done. If you wish to connect additional printers follow through steps 2-4.

**Restore Factory Defaults.** This will set all Print alignment and other calibration settings back to factory defaults.

**Cartridge Settings.** Here you can adjust the frequency of certain maintenance operations.

Increasing the value of "Seconds between Maintenance Spits" will decrease ink usage but could also cause poor quality printing.

Increasing or Pages between Maintenance Wipes will speed up printing but could also cause poor quality printing.

Click on the Wiper Maintenance button to reveal instructions for cleaning the ink wiper.

### **Advanced Eddie Settings**

- **Feed Speed.** This controls the speed of the initial height and size scan of each cookie before it is printed. If you have smaller or lighter cookies, lower this value to prevent the cookie from moving during the scan process, causing [off-center prints](#). Set this the same as Reverse Speed.
- **Reverse Speed.** This controls the speed of the initial height and size scan of each cookie before it is printed. If you have smaller or lighter cookies, lower this value to prevent the cookie from moving during the scan process, causing [off-center prints](#). Set this the same as Feed Speed.
- **Top of Cookie Lift Offset.** This controls the height of the print head. Increase the value to move the printhead further away from the print item. As you move the printhead away from the print item, the sharpness of the print decreases. Decrease the value to move the print head closer to the object. As you move the printhead closer to the object, the image will become sharper, but there will be a danger that the printhead hits the print item during printing and either causes streaks or knocks the object off the print platter.
- **Horizontal Offset.** This is the right/left offset. Increase values positive to move the print image to the printers left side (cartridge dock side). Decrease values to move the print image to the Printer's right side.
- **Top of Cookie Offset.** This is the vertical offset. Decrease values positive to move the print image toward the front of the Printer. Increase values to move the print item away from you toward the back of the Printer.
- **Tray Rotation.** Increase or decrease the accuracy of the carousel platter rotation.

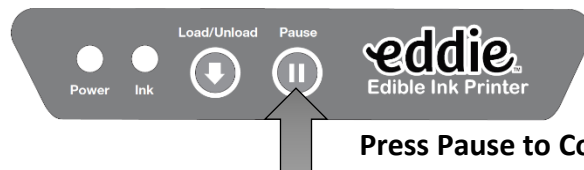


- **Pause Printing After X Cookies.** By default, the Printer will pause printing after 12 items or one complete revolution. This is meant to allow time to remove the printed items and replace them with blank items. This prevents already printed items from being printed on again. To continue printing, press the pause button to continue printing for another 12 items. Uncheck this setting to disable this feature. Increase or decrease the number to pause after that many items. We recommend that this feature is only disabled if an operator is watching the machine and reloading blank items while they are removing printed items.
- **Cookie Centering Scan.** Check to scan the front and back edge of the print item to adjust the print start position. This is recommended for items that have size variability. It will cause slightly longer delays between printing. Uncheck this box to enable manual centering of a print object. This could be useful if your cookies are [occasionally not printing centered or you have inconsistent print start positions](#). The Printer will no longer perform the scan. Instead, it will start in a fixed position. To adjust centering, you will need to manually adjust the Horizontal Offset and Top of Cookie Offset on the settings tab. See section 5B.
- **Initialize Carousel on Power Reset.** When powering on the carousel will move one quarter turn to ensure proper calibration of the carousel platter.
- **Scan large print area for multiple objects.** Enable this setting if you have [DTM templates](#). Normally the initial scan for cookie height and size scans one section in the middle of the cookie platform for height. With this setting enabled, it will scan the entire print surface for height. This will take longer but it will ensure taller cookies are not knocked off the tray when printing. Its also useful if the top of your cookies has an uneven surface. The top most height of the cookie will be used to set the height of the platform and how close the cookie comes to the print head. **Note:** Lower sections may not print as sharp since the print head is further away.
- **Enable Half-Speed Printing.** Enable this setting to increase print quality. This is especially useful if your cookie is rocking during the printing process. This reduces the chance of cookie movement during printing.
- **LED Settings.** Brightness, Flash behavior, and Color can be adjusted here.

## Section 4: Printing

Any program can be used to print to Eddie. In the following sections we provide information on how to print using BarTender. Please note the print behavior below for any print from any program.

- **By default, the Printer will pause printing after 12 items** or one complete revolution. This is meant to allow time to remove the printed items and replace them with blank items. This prevents already printed items from being printed on again. To continue printing, press the pause button to continue printing for another 12 items. See section 3E to disable or adjust this setting. We recommend that this feature is only disabled if an operator is watching the machine and reloading blank items as they are removing printed items.



**Press Pause to Continue Printing**

- The Printer will retract the print item and scan the height to determine optimal print nozzle distance from the print item. The closer the nozzles to the print item, the sharper the image will print.
- By default, the Printer will scan the front and back edge of the print item to determine the size of the print item. Once this is determined, the image sent to the Printer is automatically centered over the item to be printed. It will not reduce the size. For example: if the image is 3.5" round but the print item is 3.0" round it will center the image over this causing a .25" over print. Over time this can cause ink build-up, but it is not a large concern considering this build-up should be cleaned up during regular daily cleaning.

## 4A Using BarTender

Primera Special Edition BarTender UltraLite is included with Eddie. You can download it at the link below. Use the code below when prompted after installation.

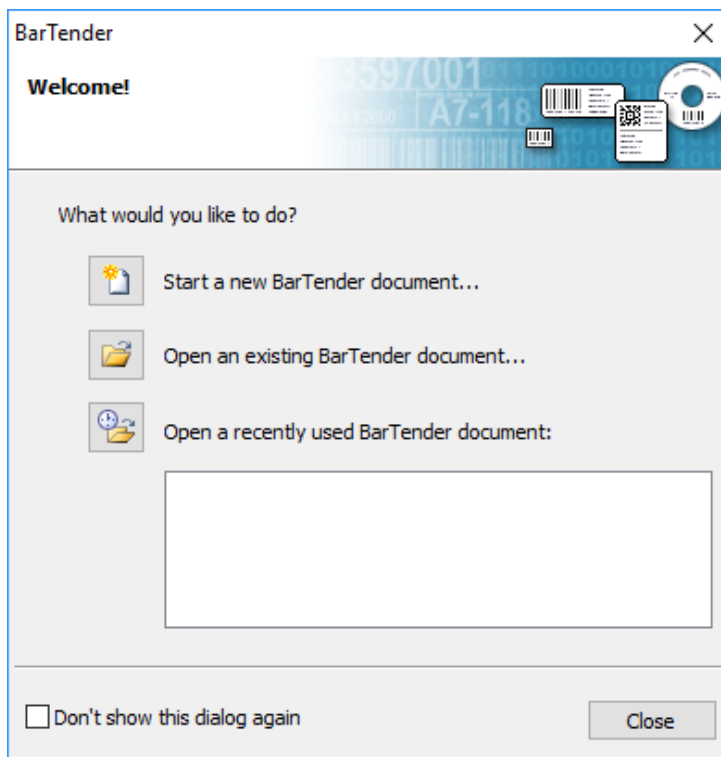
**Download:** <https://portal.seagullscientific.com/downloads/bartender>

**Code:** Z3T0-7ZJY-JFD1-3J9P

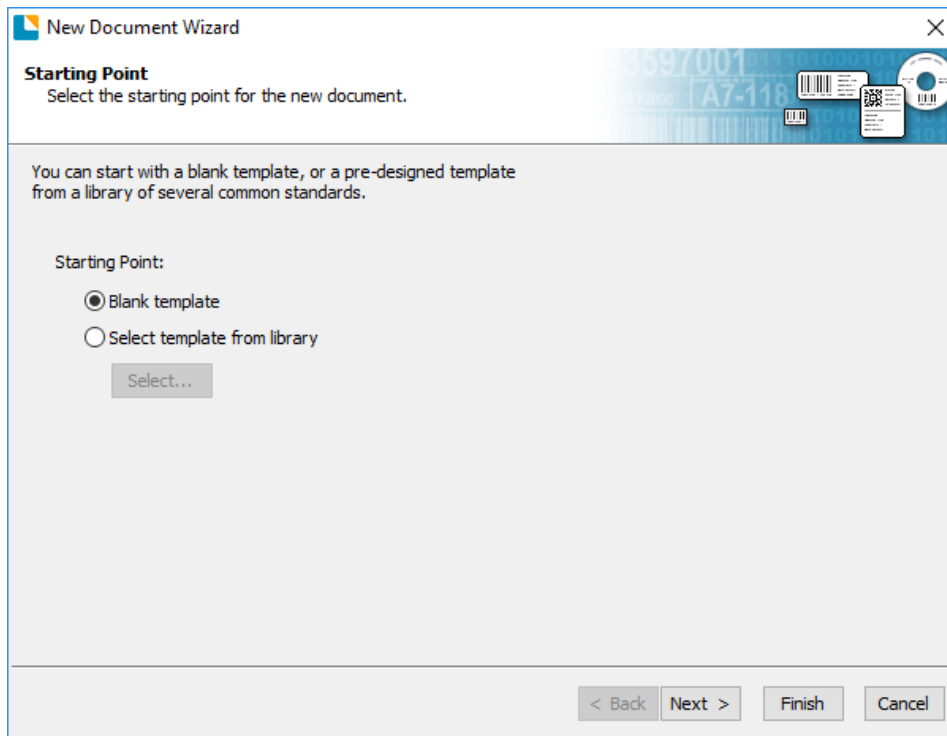
Other programs can be used to print. If printing from other programs, please follow the guidelines in Section 4D.

Use the following instructions as a guide through the wizard setup process.

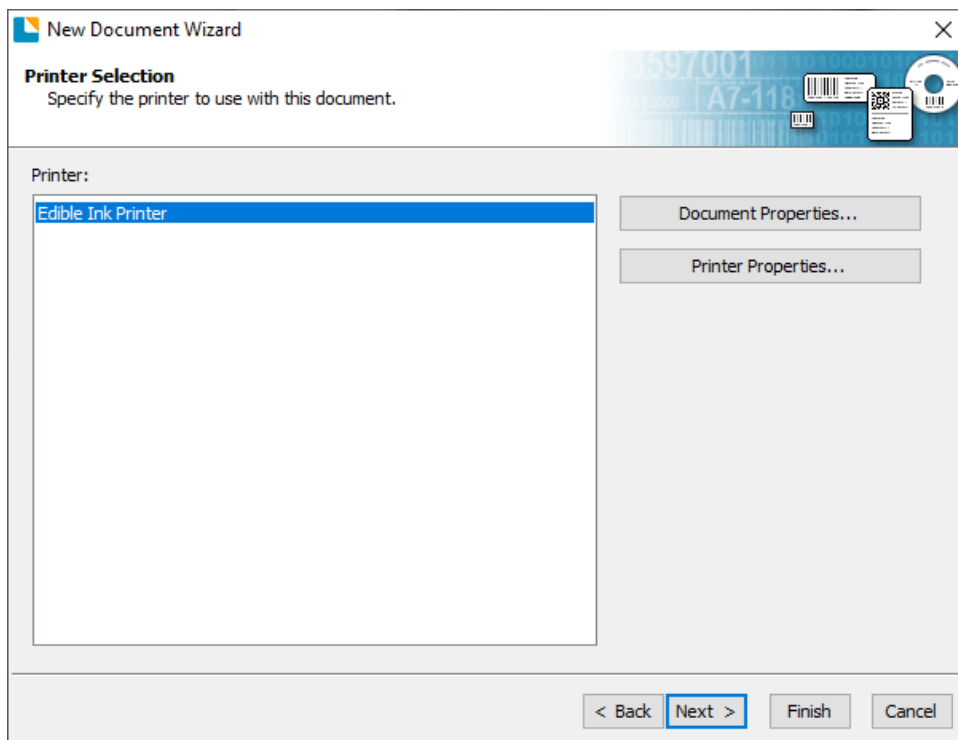
Choose "Start a new BarTender document..."



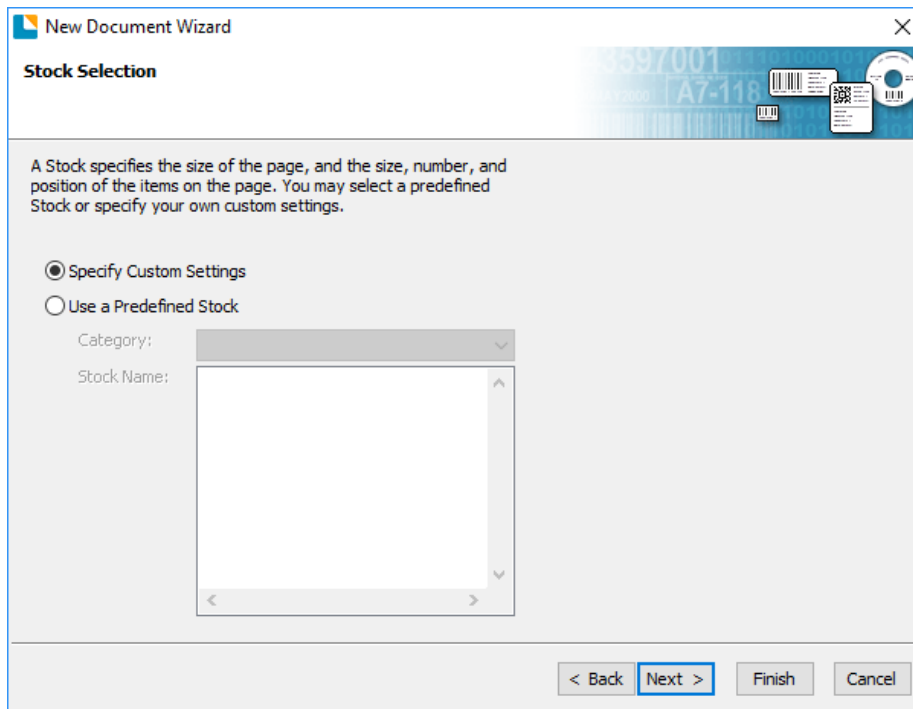
1. Select "Blank Template". Click "Next".



2. Select "Edible Ink Printer". Click "Next".

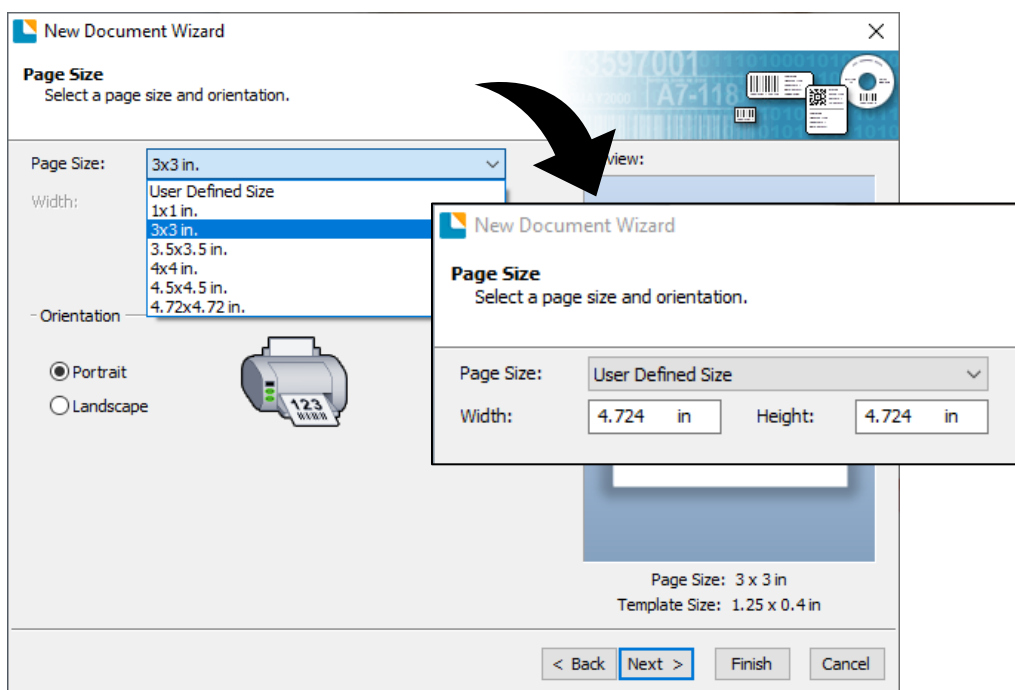


3. Select "Specify Custom Settings". Click "Next".



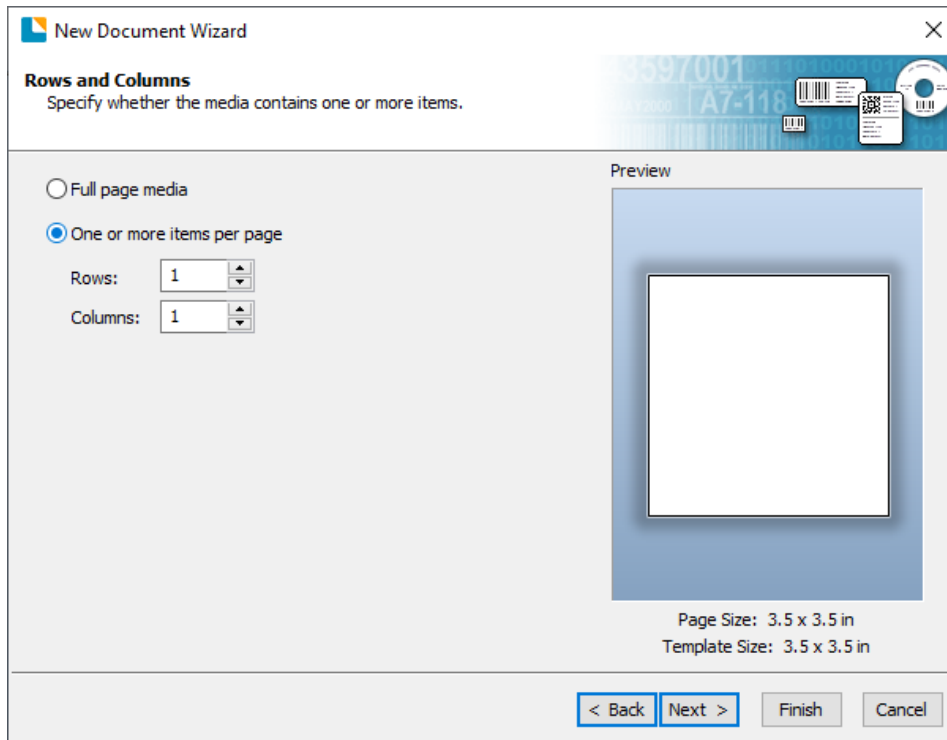
The screenshot shows the 'New Document Wizard' window at the 'Stock Selection' step. The window has a title bar with a close button. Below the title bar, the text 'Stock Selection' is displayed. A descriptive paragraph states: 'A Stock specifies the size of the page, and the size, number, and position of the items on the page. You may select a predefined Stock or specify your own custom settings.' There are two radio buttons: 'Specify Custom Settings' (which is selected) and 'Use a Predefined Stock'. Below these, there are labels for 'Category:' and 'Stock Name:' followed by a large, empty text box. At the bottom right, there are four buttons: '< Back', 'Next >', 'Finish', and 'Cancel'. The 'Next >' button is highlighted with a blue border.

4. Set the page size to one of the options available in the dropdown menu. Or click User defined Size to set your own size up to 4.72" x 4.72" (120mm). This size should be as large or larger than your cookie. Measure the cookie, not the cookie cutter. If you are using an adapter or coaster, set the size to match the adapter/coaster.



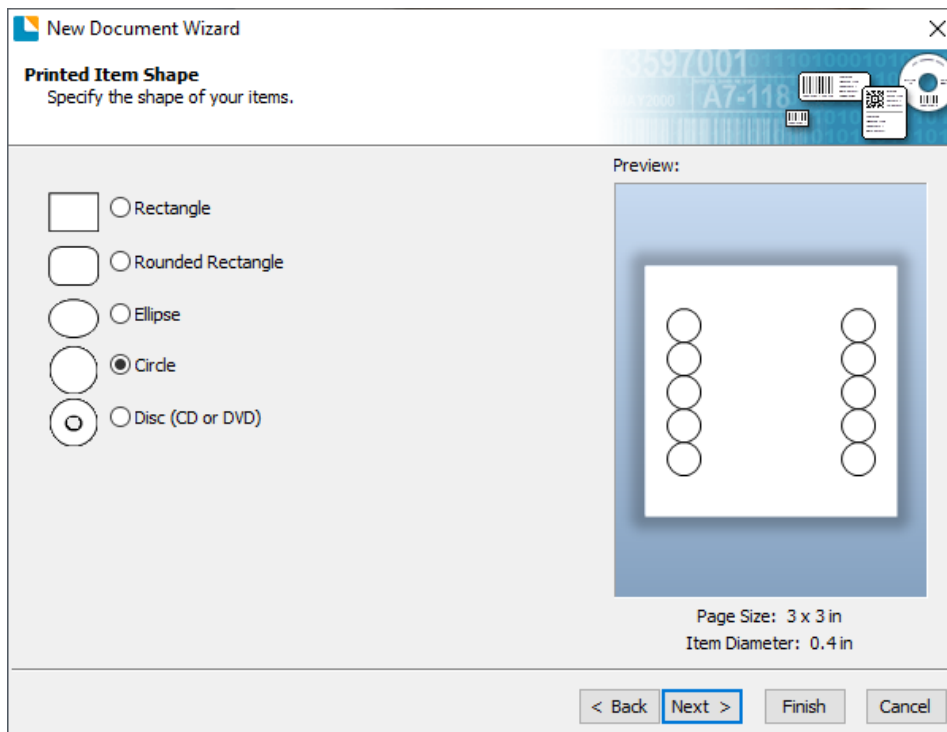
The screenshot shows the 'New Document Wizard' window at the 'Page Size' step. The window has a title bar with a close button. Below the title bar, the text 'Page Size' is displayed, followed by the instruction 'Select a page size and orientation.' There are two sections: 'Page Size' and 'Orientation'. The 'Page Size' section has a dropdown menu currently showing '3x3 in.'. A black arrow points from this dropdown to a smaller, separate dialog box titled 'New Document Wizard - Page Size'. This dialog box has a 'Page Size' dropdown set to 'User Defined Size', and input fields for 'Width: 4.724 in' and 'Height: 4.724 in'. The 'Orientation' section has two radio buttons: 'Portrait' (selected) and 'Landscape'. Below the radio buttons is a small icon of a printer. At the bottom, there are four buttons: '< Back', 'Next >', 'Finish', and 'Cancel'. The 'Next >' button is highlighted with a blue border. Below the main window, the text 'Page Size: 3 x 3 in' and 'Template Size: 1.25 x 0.4 in' is visible.

5. Select “One or more items per page”.



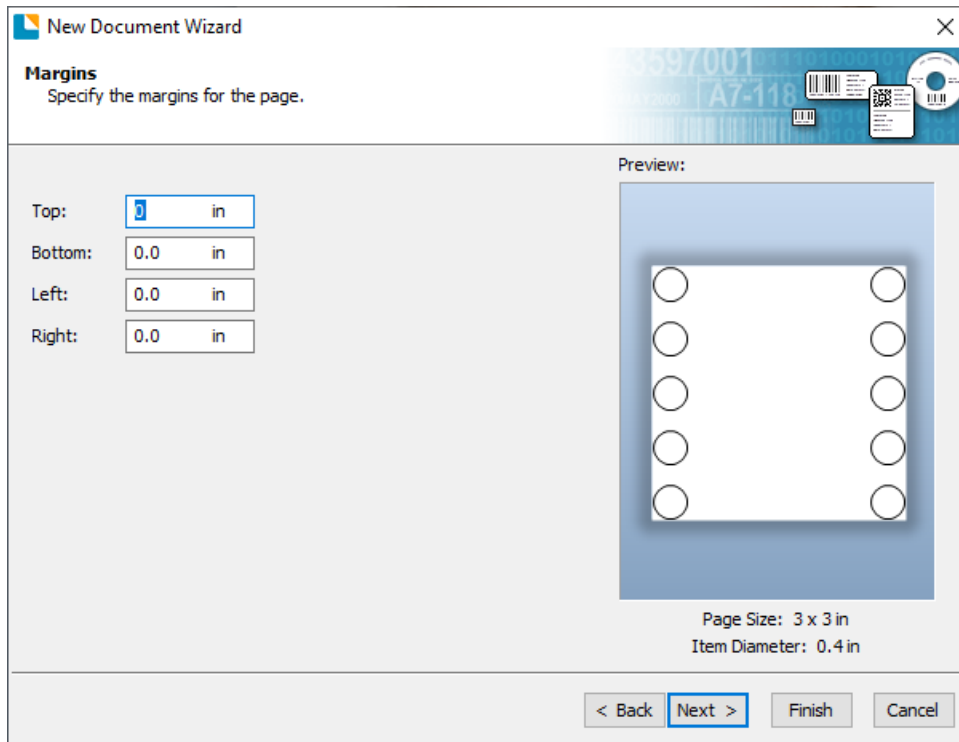
The screenshot shows the 'New Document Wizard' window, specifically the 'Rows and Columns' step. The title bar says 'New Document Wizard' with a close button. The main heading is 'Rows and Columns' with the instruction 'Specify whether the media contains one or more items.' Below this, there are two radio button options: 'Full page media' (unselected) and 'One or more items per page' (selected). Under the selected option, there are two spin boxes: 'Rows' set to 1 and 'Columns' set to 1. To the right is a 'Preview' window showing a single white rectangle on a blue background. At the bottom right of the preview, it says 'Page Size: 3.5 x 3.5 in' and 'Template Size: 3.5 x 3.5 in'. At the bottom of the wizard, there are four buttons: '< Back' (disabled), 'Next >' (active/highlighted), 'Finish' (disabled), and 'Cancel' (disabled).

6. Select your label shape. This should be a circle if you are printing to circular cookies.



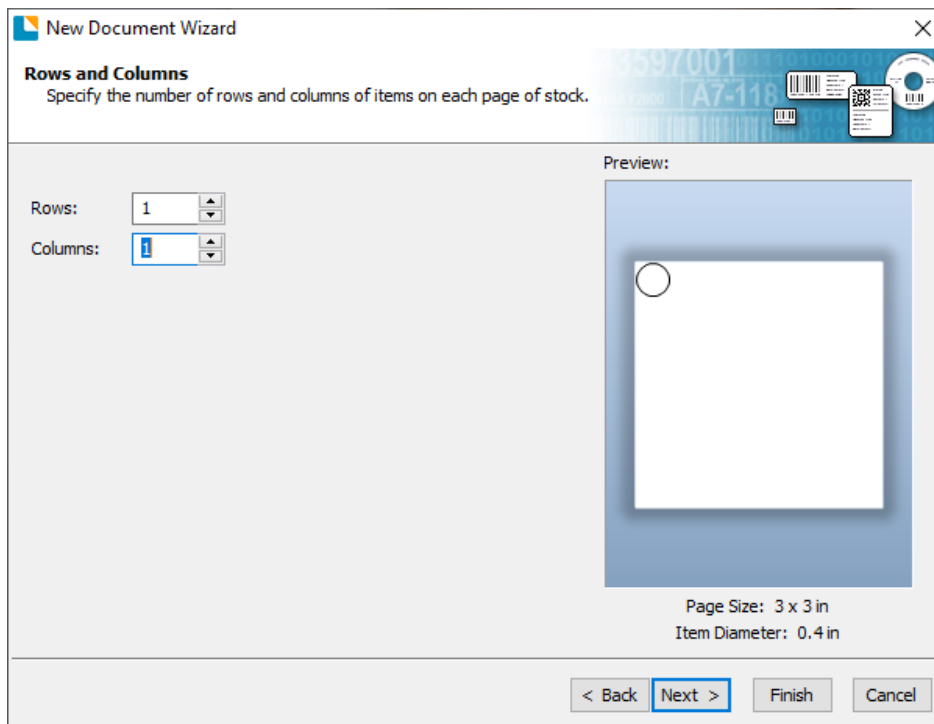
The screenshot shows the 'New Document Wizard' window, specifically the 'Printed Item Shape' step. The title bar says 'New Document Wizard' with a close button. The main heading is 'Printed Item Shape' with the instruction 'Specify the shape of your items.' Below this, there are five radio button options with corresponding icons: 'Rectangle' (unselected), 'Rounded Rectangle' (unselected), 'Ellipse' (unselected), 'Circle' (selected), and 'Disc (CD or DVD)' (unselected). To the right is a 'Preview' window showing two vertical columns of circles on a white rectangle, which is itself on a blue background. At the bottom right of the preview, it says 'Page Size: 3 x 3 in' and 'Item Diameter: 0.4 in'. At the bottom of the wizard, there are four buttons: '< Back' (disabled), 'Next >' (active/highlighted), 'Finish' (disabled), and 'Cancel' (disabled).

7. Set all of the margins to zero. (You can adjusted the left margin and Top of Form in the Label Alignment Section). Click Next.



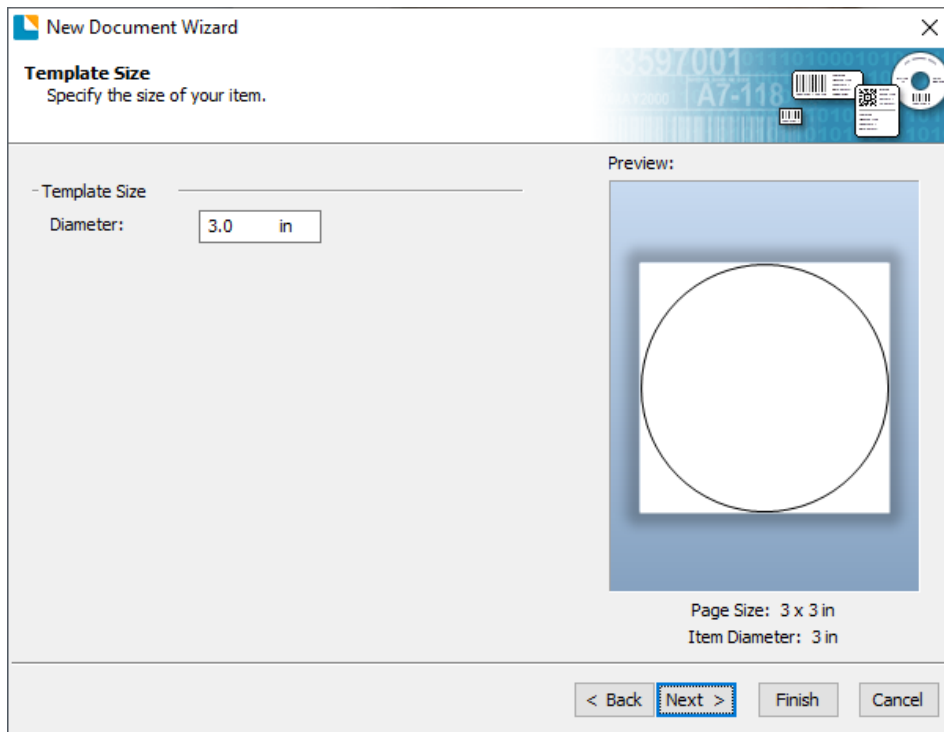
The screenshot shows the 'New Document Wizard' window, specifically the 'Margins' step. The title bar reads 'New Document Wizard'. Below the title bar, the section is titled 'Margins' with the instruction 'Specify the margins for the page.' The main area contains four input fields: 'Top:' with a value of '0' in a blue box, 'Bottom:' with '0.0', 'Left:' with '0.0', and 'Right:' with '0.0'. All units are 'in'. To the right is a 'Preview:' section showing a white rectangular label on a blue background, with 10 circular punch holes (5 on each side). Below the preview, it says 'Page Size: 3 x 3 in' and 'Item Diameter: 0.4 in'. At the bottom are four buttons: '< Back', 'Next >' (highlighted with a blue border), 'Finish', and 'Cancel'.


8. Set Rows and Columns to 1 for a standard label. Click Next.

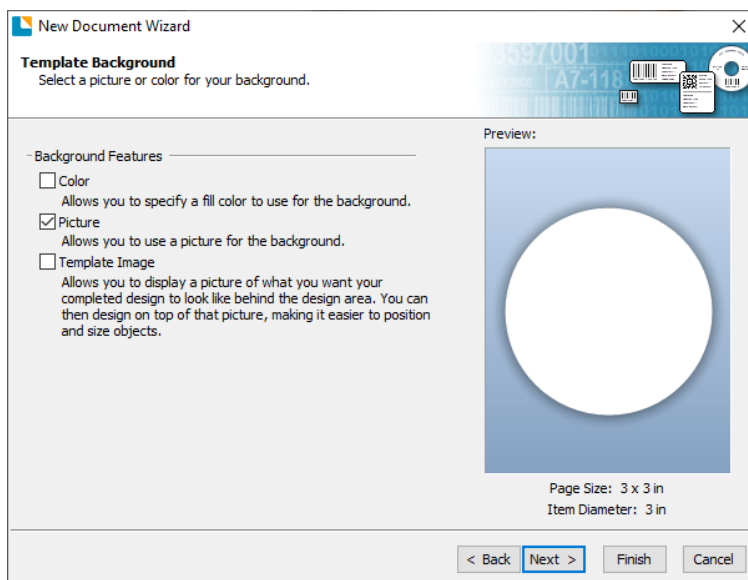


The screenshot shows the 'New Document Wizard' window, specifically the 'Rows and Columns' step. The title bar reads 'New Document Wizard'. Below the title bar, the section is titled 'Rows and Columns' with the instruction 'Specify the number of rows and columns of items on each page of stock.' The main area contains two input fields: 'Rows:' with a value of '1' in a blue box, and 'Columns:' with a value of '1' in a blue box. To the right is a 'Preview:' section showing a white rectangular label on a blue background, with a single circular punch hole in the top-left corner. Below the preview, it says 'Page Size: 3 x 3 in' and 'Item Diameter: 0.4 in'. At the bottom are four buttons: '< Back', 'Next >' (highlighted with a blue border), 'Finish', and 'Cancel'.

9. Set Template Size to be the same as page size set in step 5. Click Next.

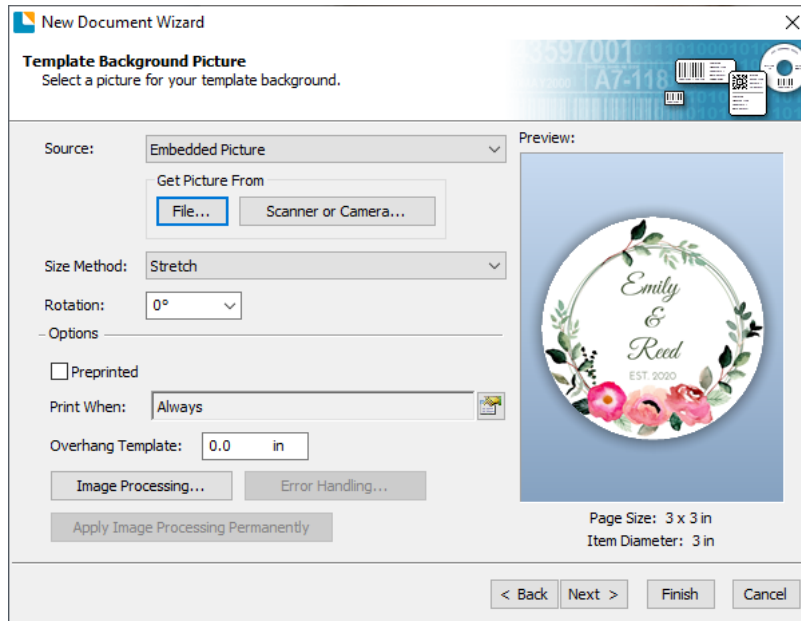


10. Check the "Picture" box to add a background photo or graphic to your label. Click "Next". If you click "Finish", the remaining default wizard options will be set, and no picture will be added. We recommend adding the picture as a background as it will automatically crop any square you add to the design to fit inside the circle, and ONLY the portion inside the circle will print. If you want more control of your image placement, uncheck this box and use the image tool to place your image. 



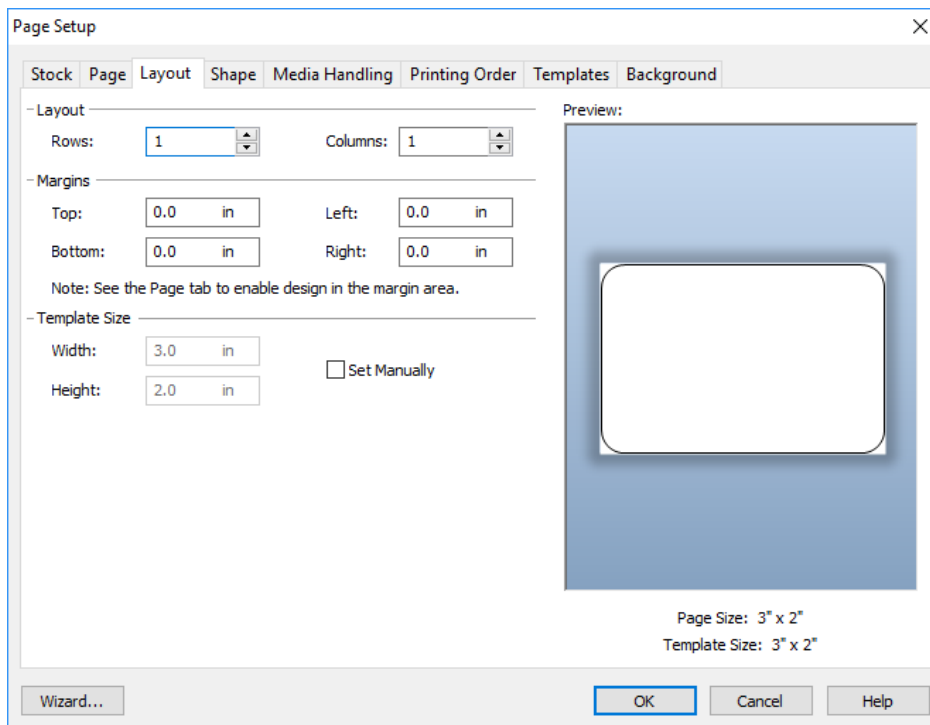


11. Select "Embedded Picture". Click the "File" Button to browse to the location of your photo/graphic file. Set the Size Method to "Stretch". Note the preview to the right. Click "Next" if you are satisfied with the layout of the photo or graphic. Otherwise you may try one of the other Size Methods in the drop down menu.

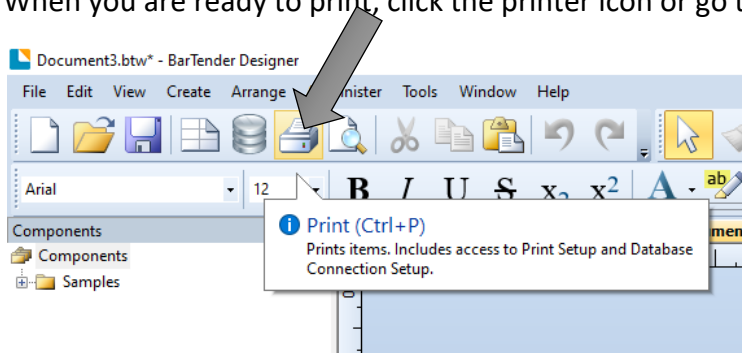


12. Click Finish to open the template.

You can edit any of these initial settings by going to the File Menu and selecting "Page Setup". Basic and advanced settings are available on the various tabs.



13. When you are ready to print, click the printer icon or go to file print.



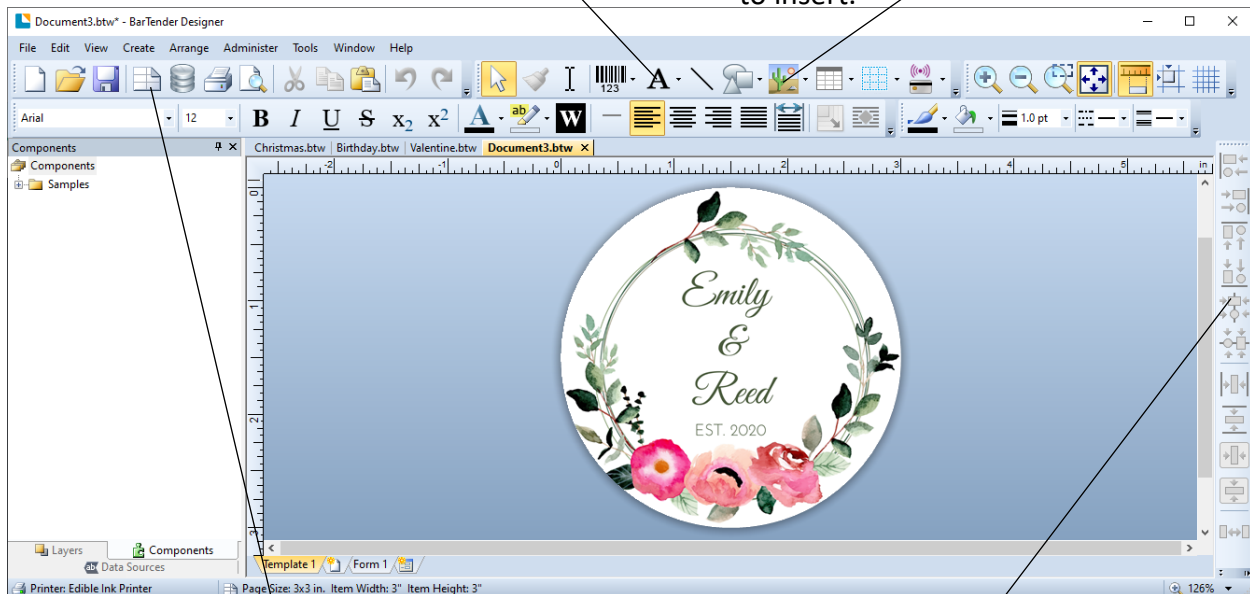
**Important Note:** The first time you print or any time you print after you power on the printer, the carousel will move one quarter turn and skip 3 cookies before printing. This is to ensure proper calibration of the carousel platter.

## 4B Add Text and Graphics to a BarTender Design

Once you have created your label size you will be able to add text, a barcode and/or graphics. This can be done using one of the buttons on the button bar at the top of the screen.

**Add Text.** Click the Text button. Now click anywhere on your label. "Sample Text" will appear. Edit the text on screen or double click it to open up text settings to change font, size and other settings.

**Add Graphic.** Click the Image button. Now click anywhere on your label. An Image icon will appear. Double-click it to open up image settings and browse to the image/graphic that you would like to insert.



**Page Setup.** Click the Page Setup button to change your label size, adjust corner radius or change the shape.

**Align Objects.** Choose any of these icons to align objects to one another or the page.

**Tip!** Double-click any object to open settings for that object.

**Tip!** Go to the Help menu to access the BarTender Manual and Tutorials.

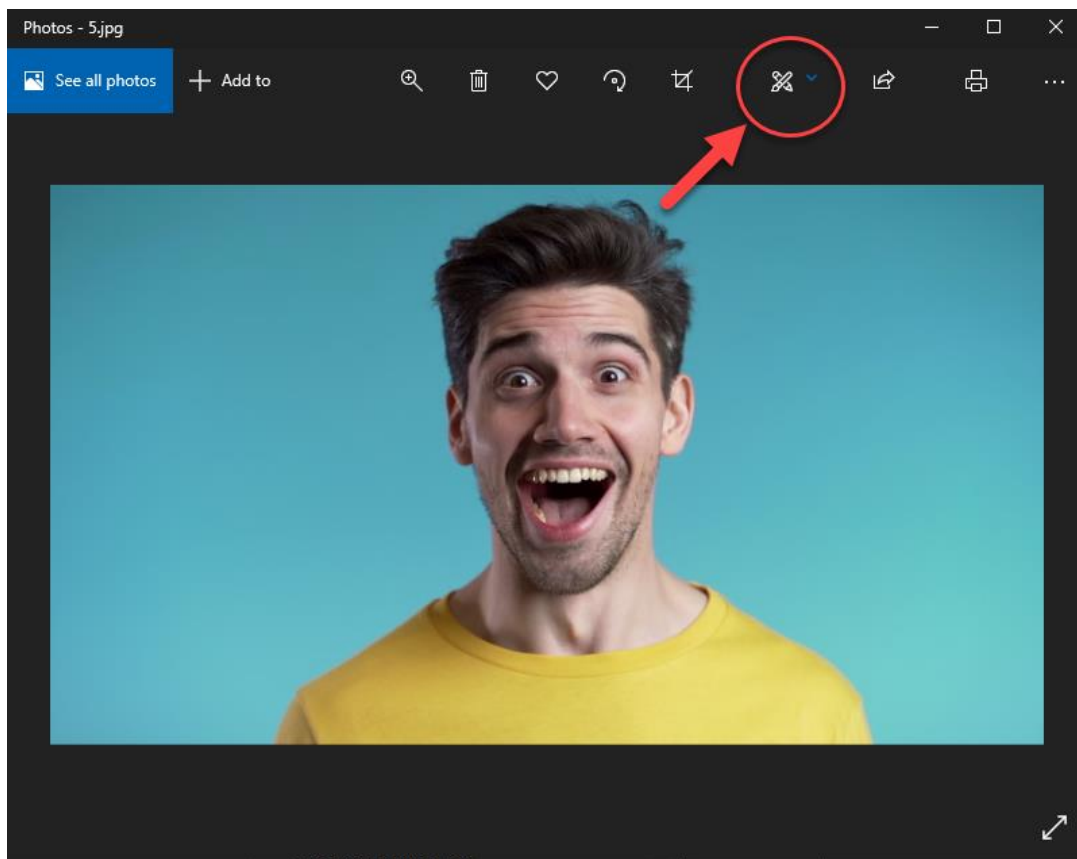
## 4C Removing Image background with Paint 3D

Paint 3D is a free program that comes with Windows 10.

1. Choose an image and open it in Windows Photo Viewer. You can choose any image that you would like to remove the background from. Simply click on the image to automatically open it with Windows Photo Viewer.

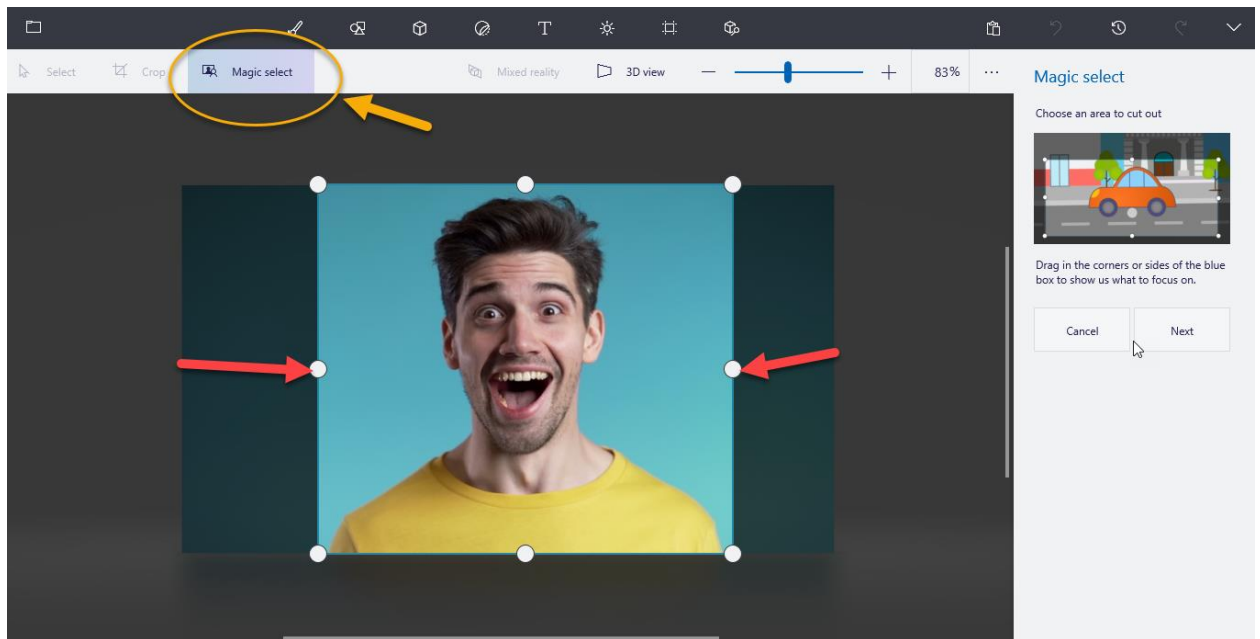
**Note:** There are some images that work better for this than others, particularly images that have a distinct difference between the background image and the foreground image.

2. Click on "Get Creative with this image" This is effectively the Edit image button. Click on the icon in the upper right and select "Edit with Paint 3D".

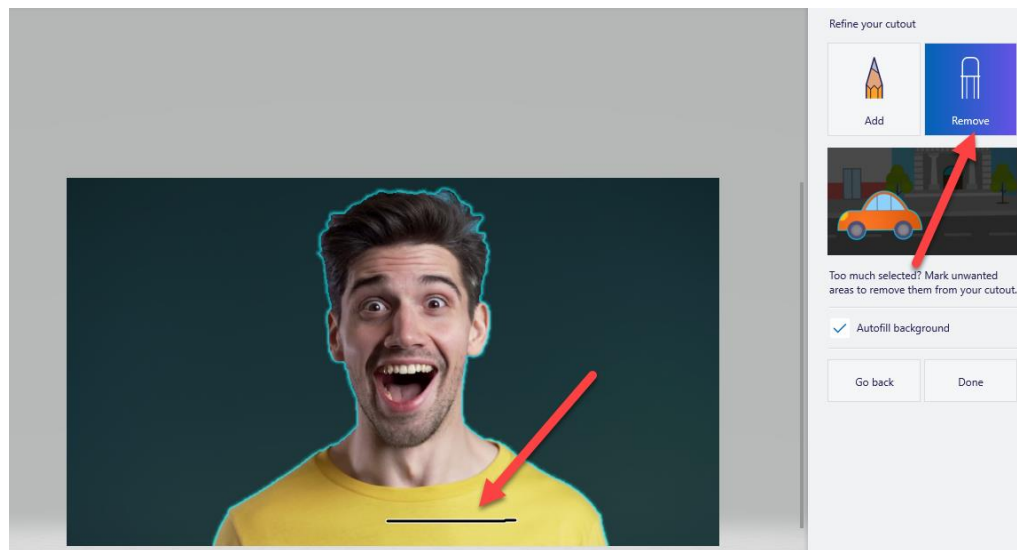


3. Edit the Image with Magic Select. When your image opens in Paint 3D, choose "Magic Select" in the upper left of the toolbar. When this is chosen, a crop box will appear

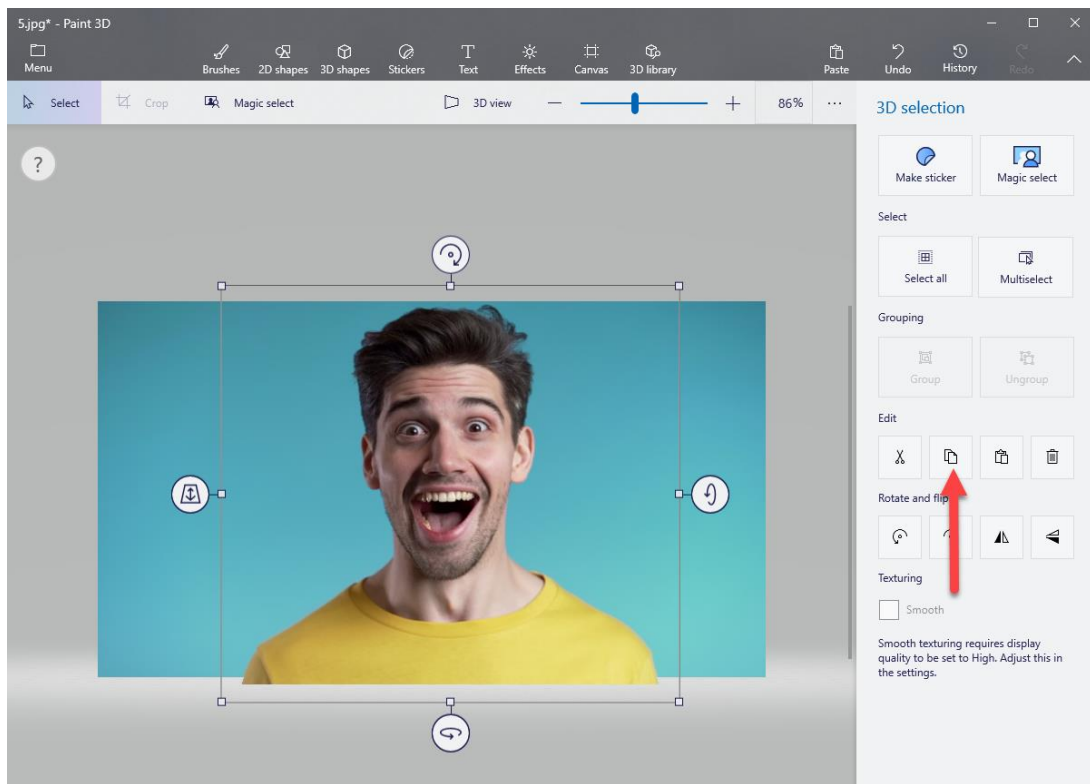
around your image. Drag the crop box around the image that you have selected to be removed from the background. When you are done, choose "next" in the side panel on the right.



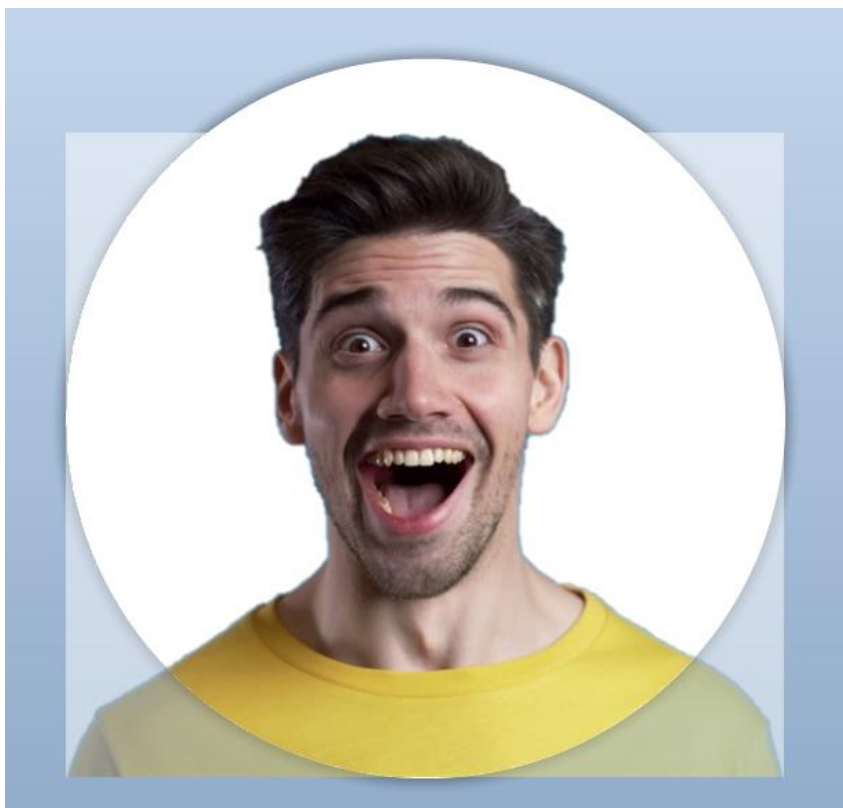
4. Refine the part of the image you would like. After pressing next in step 3, you will see that the outside edges of your image are now highlighted. Sometimes the software (depending on how complex/busy the background is) will take more or less image than you want and highlight that as well, such as extra space around the shoulder of the person in the image. If this is the case, you can use the remove tool in the sidebar on the right to "draw" the spots that you do not want included in the image out of the highlighted area. In the example below, the line drawn over the yellow shirt will remove it from the crop. Once you are happy with the selection, click Done.



5. Remove the image from the background and copy it. After pressing next in the last step, your image will pop out of the background, and it will be free to be copied. Right-Click on the selected image and select copy or select copy from the side menu to set the image up to be pasted into a different image or program. (Such as a Bartender cookie template)



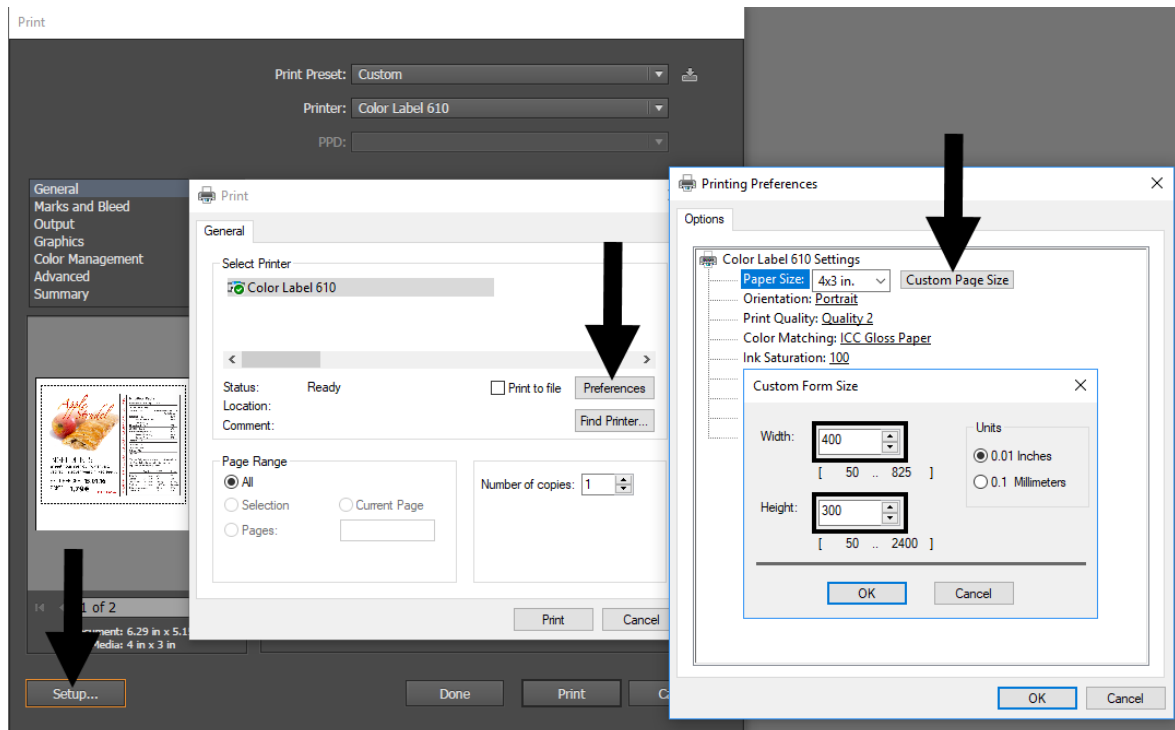
6. Paste the image into your bartender template.



## 4D Printing from Other Programs

Since this Printer uses a standard Windows printer driver you can print from any application you would like. There are just a few things to remember that will make it much easier.

1. Set the Page/Label Size in the Driver. BarTender automatically prompts you for the size of the print. When printing from any other program, you must do this manually. Before you print, simply set the custom page size just as you would set print quality in the printing preferences. In the example below the label size is 3.3" x 3.3" so the custom page size is set to 330 x 330 (displayed in .01 inch units).

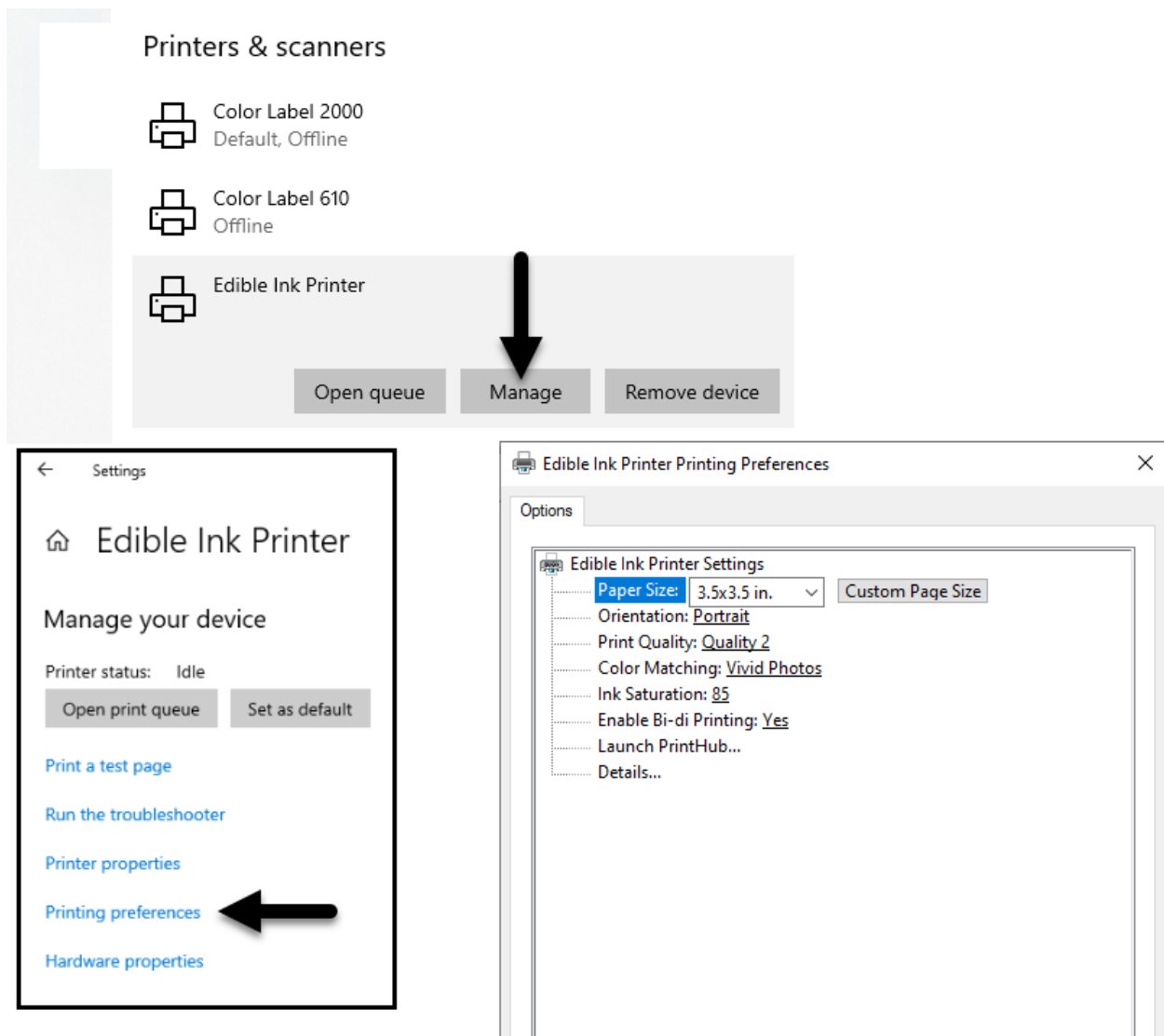


2. Check the image or document size. The image size or document size set in Illustrator should match the Page Size set in the driver. If you have set your page size to 3" x 3" but your image is actually 4" x 3" the printer driver will automatically shrink your image to fit inside the 3" x 3" space. The result is that the actual printed label is 3" x 2.25". Avoid this by setting your document size or image size to match the label size.
3. Choose the right printing program. There are many different applications that are capable of printing to the Eddie. However, there are only a few that are ideal printing applications. For example, Adobe Illustrator is an excellent design program but is not always the best printing program.



## 4E Printer Driver Settings

Once the printer driver has been successfully installed, you will need to set up the driver with the appropriate print options. Refer to the following steps to change or verify your default printer driver preferences. These settings will apply to all new designs created in BarTender or other programs after the preferences were changed. Existing labels saved in BarTender will not be affected since the preferences are saved with the label. To change these preferences, you will have to change printer preferences through BarTender. (File Menu - Printer Settings) Click the Start button, search for "Printers". Select Printers and Scanners. Select the Color Label 610. Choose Manage. Select Printing preferences.



**Note on PC Settings:**

Most applications allow you to change these same printer driver options from their "Print" and/or "Printer Setup" screens. Some applications such as BarTender save your settings with the label, others use settings only for the current print job just sent to the Printer.

**Paper Size**

If you are using BarTender, this setting is adjusted during the setup wizard. If you are using a program other than BarTender you will need to set this to the dimensions of your print. There are several preset sizes to choose from. However, you may also choose your own custom page size. **Note.** The driver page size will NOT crop a square into a circle automatically. You must use software such as BarTender to crop the circle. Page height and width can be from 1" to 4.72".

**Orientation**

There are two settings for orientation, Portrait and Landscape. If your text and graphics print left to right or as shown on the screen, select portrait. If you wish your printing to rotate 90 degrees from what you see on the screen so it is printing horizontally, select landscape as your orientation. Remember, this does not change the width and height Paper Size. It is only a tool for viewing a design upright on screen that will be printed sideways on the Printer.

**Print Quality**

There are 4 levels of print quality in the driver. The lower the quality, the faster the print. Quality 1 provides the fastest print available while Quality 4 provides the best quality. It is recommended that you experiment with the different levels when designing your label to find a good balance between print quality and print speed. Quality 2 is the default.

**Color Matching**

**Vivid Graphics** mode is best used for graphical images where accurate color reproduction is not as essential. Images printed in this mode will look more vibrant because more ink is being used to produce them. However, printing images of people may produce skin tones that have a reddish tint.

**Vivid Photos** mode is best used for photographic images where accurate color reproduction is very essential. Images printed in this mode will look lighter than those printed in Vivid Graphics mode. Skin tones especially will look more natural in this mode.

**ICC Profile 1-4** Select the setting that matches your screen the best. Note: ICC monitor calibration and additional setup is required for this option to work.

**-NONE-** will use no color matching.

**Ink Saturation**

This option controls the amount of ink used when printing an image. The default setting is 100%, which will provide the most accurate color matching. If the ink is not drying fast enough or "bleeding", you can decrease the Ink Saturation to lessen the amount of ink that is applied to the label.

**Enable Bi-di**

Set to "Yes" for fastest print speed. This requires an alignment print after every cartridge change. Set to "No" for better quality print (in some cases).

**Launch PrintHub**

This setting will open the Primera PrintHub application.

**Details**

Select this setting to see current firmware and driver version information and other printer settings.

## Section 5: Printing from a Mac

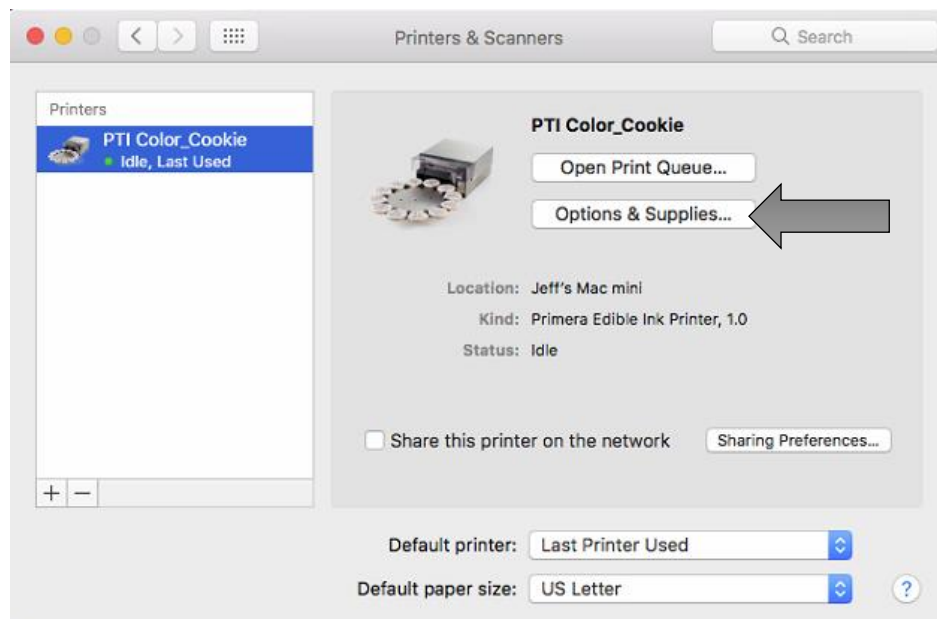
### 5A Print Utility Settings (Eddie Config Utility)

The Eddie Config Utility is used to interact with the Printer for gathering ink levels, maintenance, alignment, and several other functions.

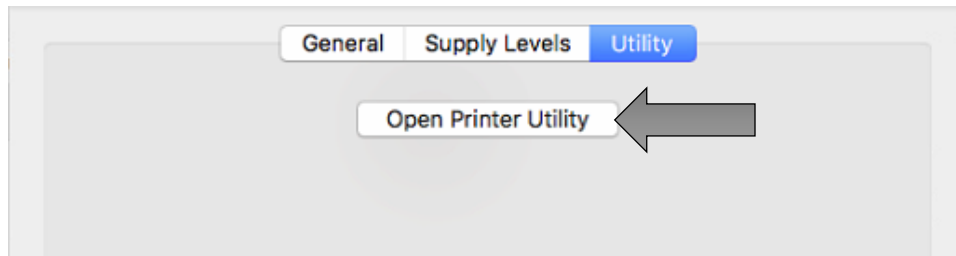
#### To Find Eddie Config Utility:

The Eddie Config Utility automatically installs with your printer driver and can be accessed through the Printer & Scanners in Mac under Apple Icon – System Preferences.

1. Connect the Printer via USB and turn on the power. The Eddie Config Utility accesses most of the information it uses from the Printer itself, so the Printer must be turned on and communicating for the program to open.



2. Go to the Apple Icon – System Preferences - Printers and Scanners, select the PTI Color\_Cookie, click on, Options & Supplies, and Open Printer Utility. Or you may simply print to the Printer and the Utility will open.



3. The Eddie Config Utility has 4 tabs that are arranged on the top of the window. Each tab opens a screen that has various similar functions.

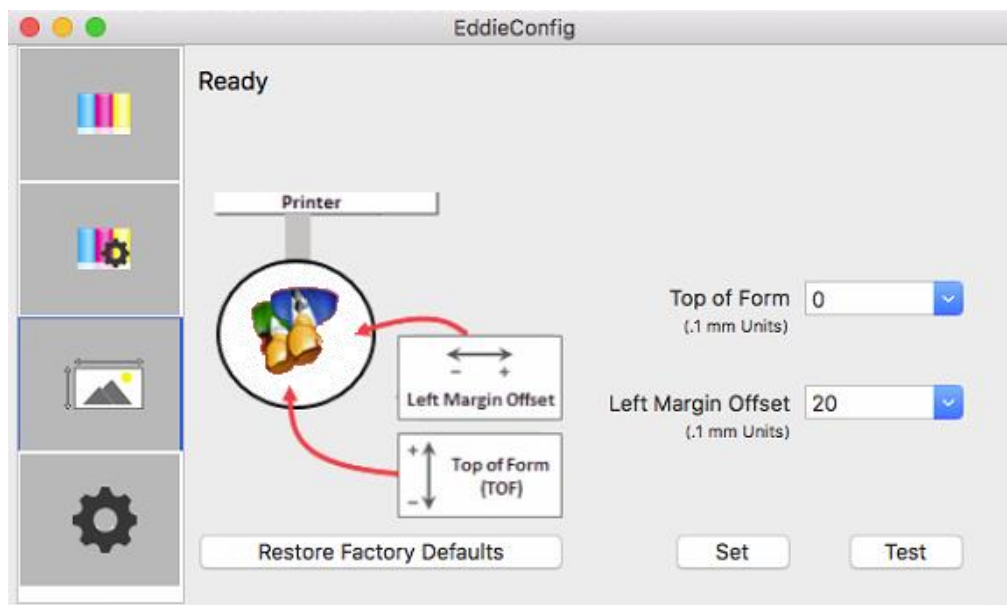
- **Status Tab** (First Tab). Displays ink levels, print counter, and any error messages.
- **Cartridge Tab** (Second Tab). Use for aligning the cartridge, cleaning the cartridge, and changing the cartridge.
- **Alignment Tab** (Third Tab). Adjusts vertical and horizontal print alignment. Changes the Stock Sensor Mode and toggles the Output/Cut Mode, and set other advanced settings.
- **Settings Tab** (Fourth Tab). Displays printer information including firmware version, driver version, and software version. Check for updates.



## 5B Adjusting Print Alignment

Eddie comes from the factory calibrated to print exactly to the edge of Primera Cookies. Eddie senses the beginning of the print object height and the front and back edge of the print object with an optical sensor. However, due to variability it may be necessary to fine-tune these settings.

Adjust print alignment using the Eddie Config Utility. Click on the Alignment Tab (Third Tab).



Two items can be adjusted here:

- \* **Left Margin Offset.** This value moves the printed image left or right. Add to the current value to move the printed image to the right. Subtract from the current value to move the printed image to the left. After adjusting the value, click the Set Offsets button to send the value to the Printer.
- \* **Top of Form (TOF).** This value moves the print start position up or down on the print object. Add to the current value to move the printed image down or toward the Printer. Subtract from the current value to move the printed image up or away from the Printer. After adjusting the value click the Set Offsets button to send the value to the Printer.

You may have to make several adjustments to one or more of these values. After each adjustment you can click the Test button to print a small test pattern on the print object. This will help you find the proper alignment value.

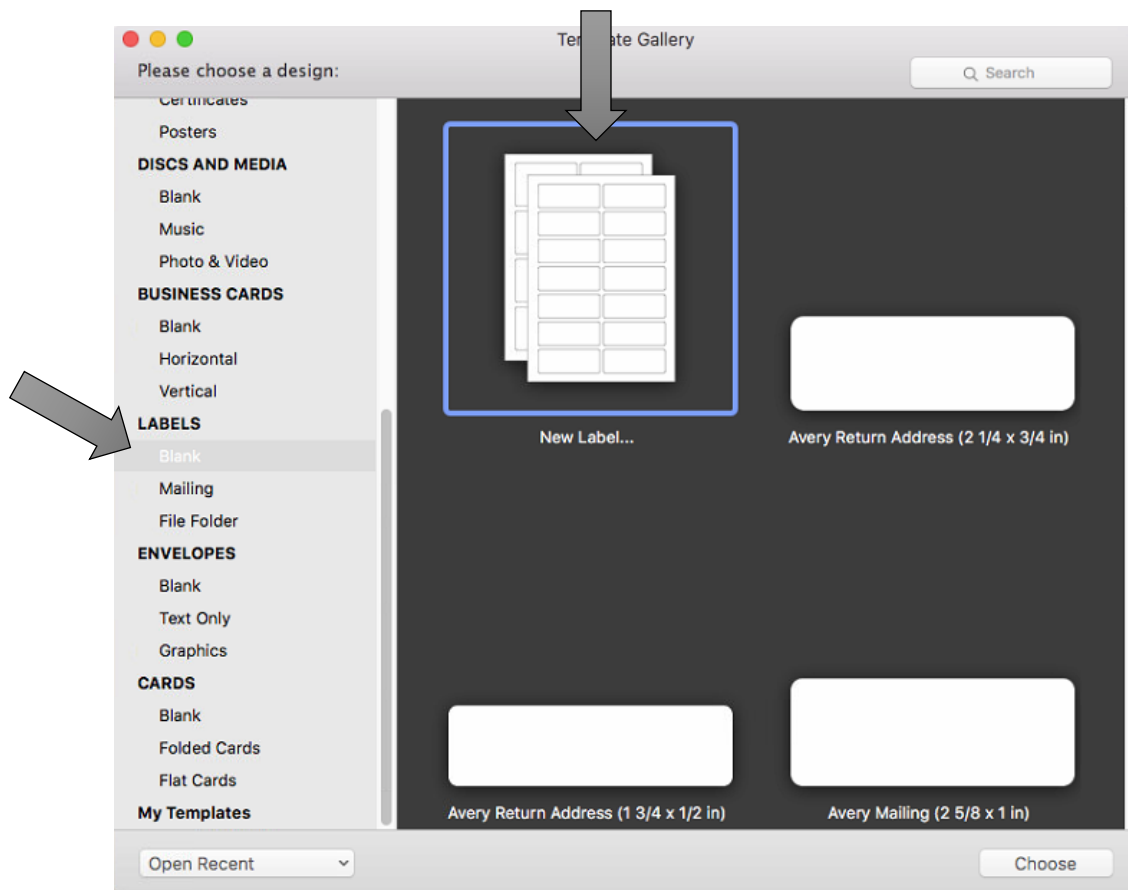
## 5C Printing from Swift Publisher

Swift Publisher is an inexpensive software that can be used to design/layout and print your images. Below is a tutorial on how to setup a print using Swift Publisher by Belight.

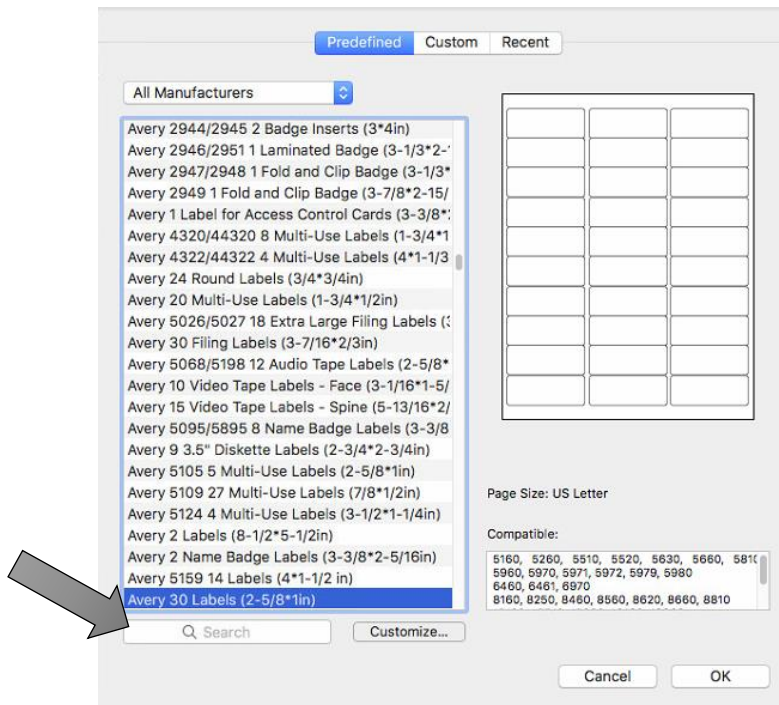
**Download a Free Trial Here:**

<https://www.swiftpublisher.com/>

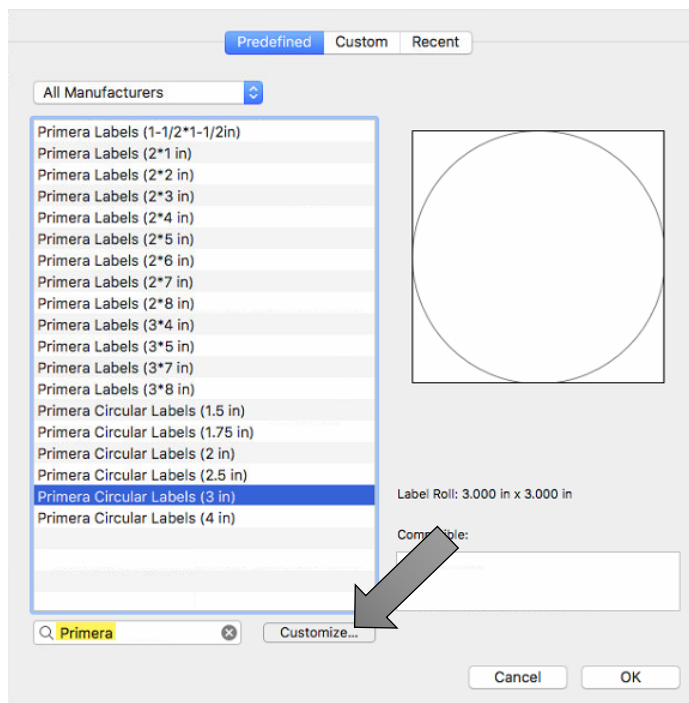
When you open the software for the first time you will be asked to choose a Template. Select Label – Blank. Select New Label... Click Choose.



1. Hundreds of templates are available. Locate the Search box near the bottom.

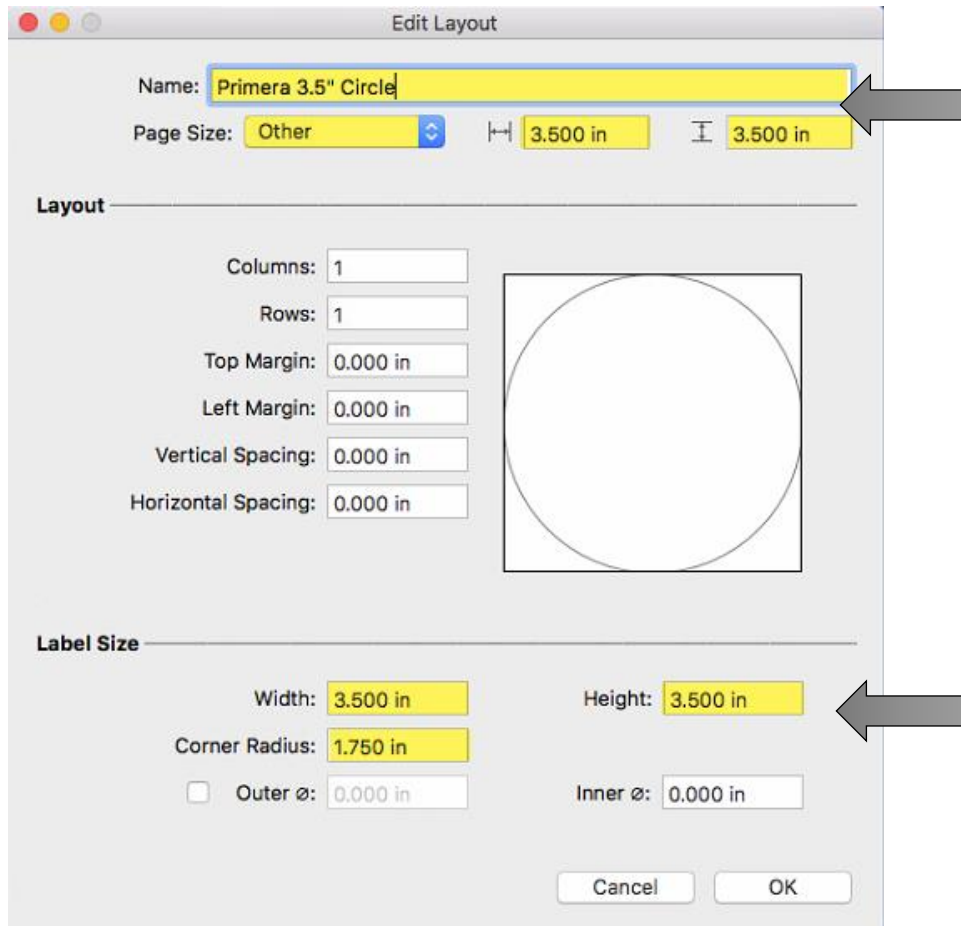


2. Type "Primera" in the search box. Choose one of the predefined circular templates if it is the correct size. Click OK. Otherwise, with one of the circular templates selected, click the Customize button to create a different size.





3. Name the custom layout and set the items highlighted and noted below. Click OK



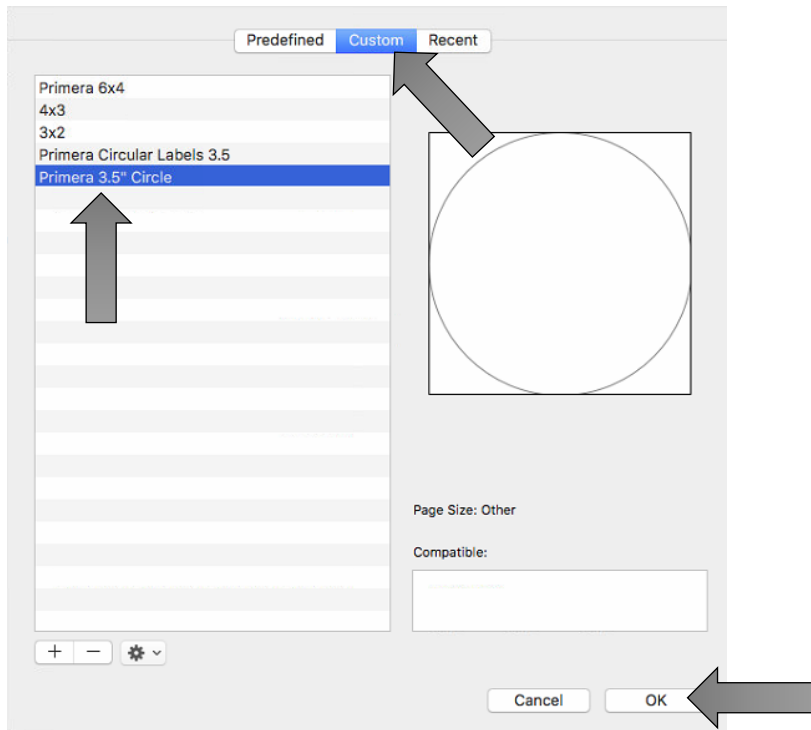
The screenshot shows the 'Edit Layout' dialog box. The 'Name' field is highlighted in yellow and contains the text 'Primera 3.5\" Circle'. The 'Page Size' section shows 'Other' selected, with width and height both set to '3.500 in'. The 'Layout' section has 'Columns' and 'Rows' both set to '1', and all margin and spacing fields set to '0.000 in'. A preview of a circle is shown. The 'Label Size' section has 'Width' and 'Height' both set to '3.500 in', 'Corner Radius' set to '1.750 in', and 'Outer ø' and 'Inner ø' both set to '0.000 in'. Arrows point to the 'Name' field and the 'Height' field.

Section	Field	Value
Name	Name	Primera 3.5" Circle
	Page Size	Other
Page Size	Width	3.500 in
	Height	3.500 in
Layout	Columns	1
	Rows	1
	Top Margin	0.000 in
	Left Margin	0.000 in
	Vertical Spacing	0.000 in
	Horizontal Spacing	0.000 in
	Preview	Circle
Label Size	Width	3.500 in
	Height	3.500 in
	Corner Radius	1.750 in
	Outer ø	0.000 in
	Inner ø	0.000 in

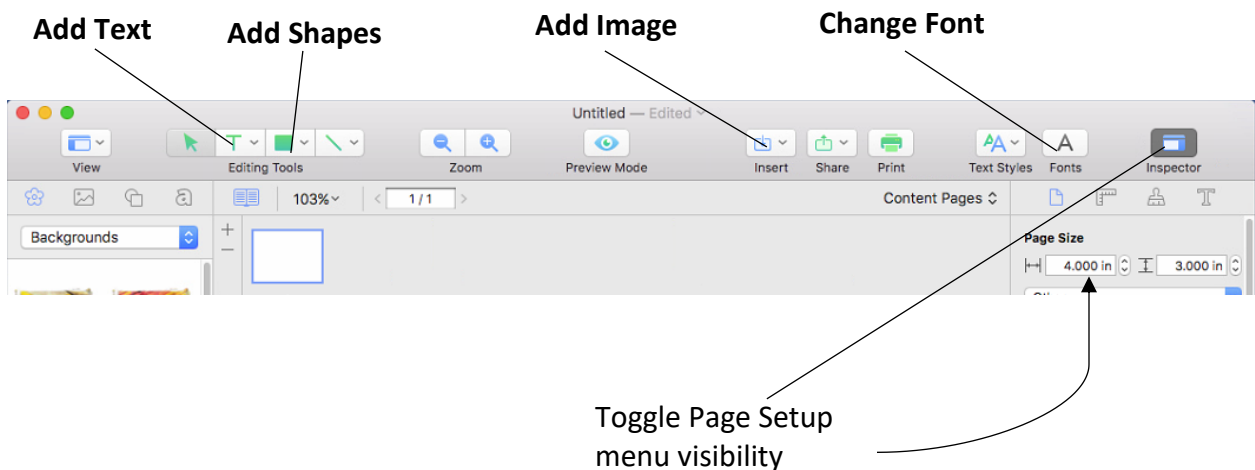
Buttons: Cancel, OK

- **Page Size:** Set to Other. Size should match the label size.
- **Width:** Match Page Size
- **Height:** Match Page Size
- **Corner Radius:** This should always equal half the Width or Height.
- **Margin:** Leave at the default of zero
- **Spacing:** Leave at the default of zero
- **Columns/Rows:** Leave at the default of 1

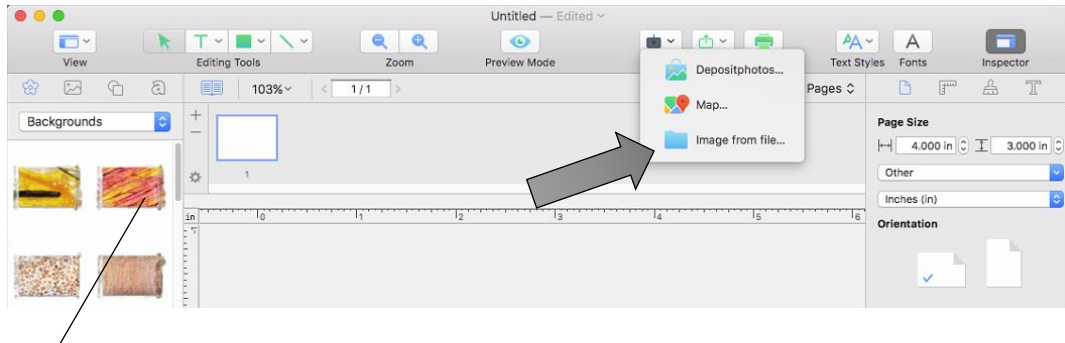
4. You will be able to choose this template again from the custom tab of the templates window. Click OK to select it.



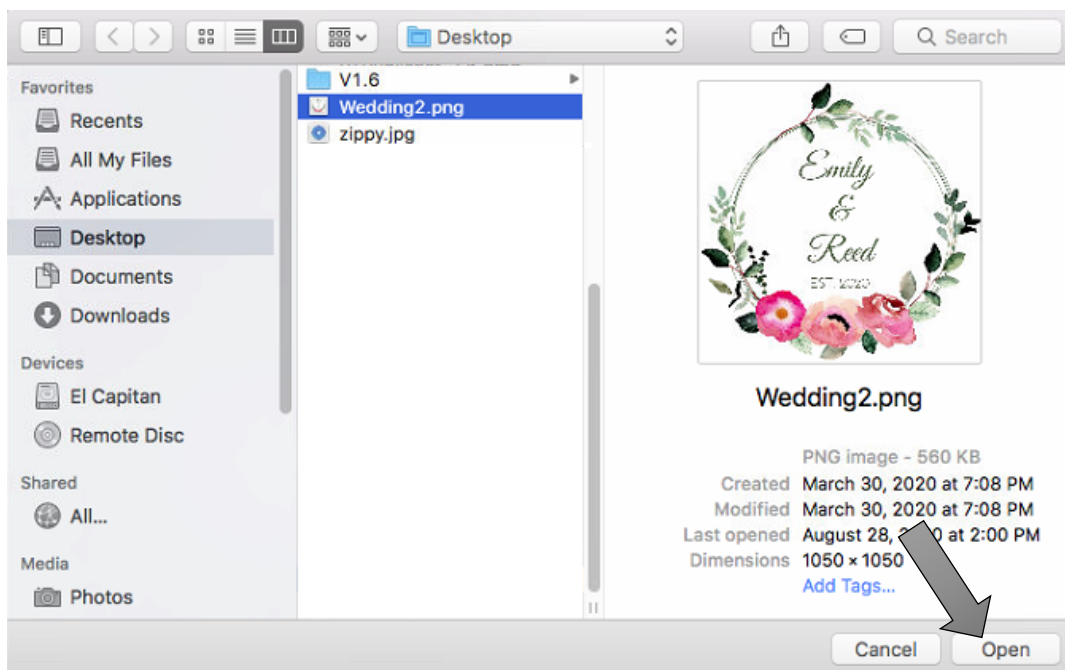
5. You can now create your design. Add Text, Barcodes, shapes and images to your design.



6. For this example, we will add an image that we created in another design application. It does not need to be formatted as a circle. The template will crop it as a circle. Click the insert Icon and choose image from file....



**Note:** You can also add images from the Backgrounds menu included with Swift Publisher. Simply drag them to your template.



7. Once your image is imported into your template, you will need to adjust the size to fill the entire template (if that is your intention). Adjust the size by clicking the ruler icon in the Inspector with the image selected. Check the "Fit aspect ratio" box and then type in your size.

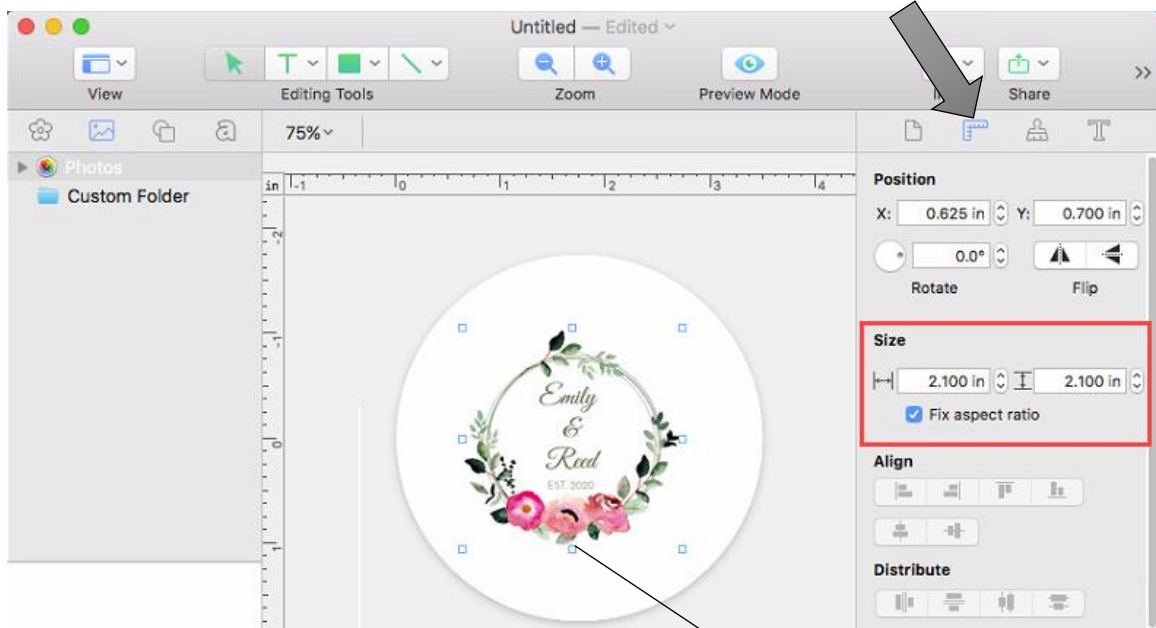
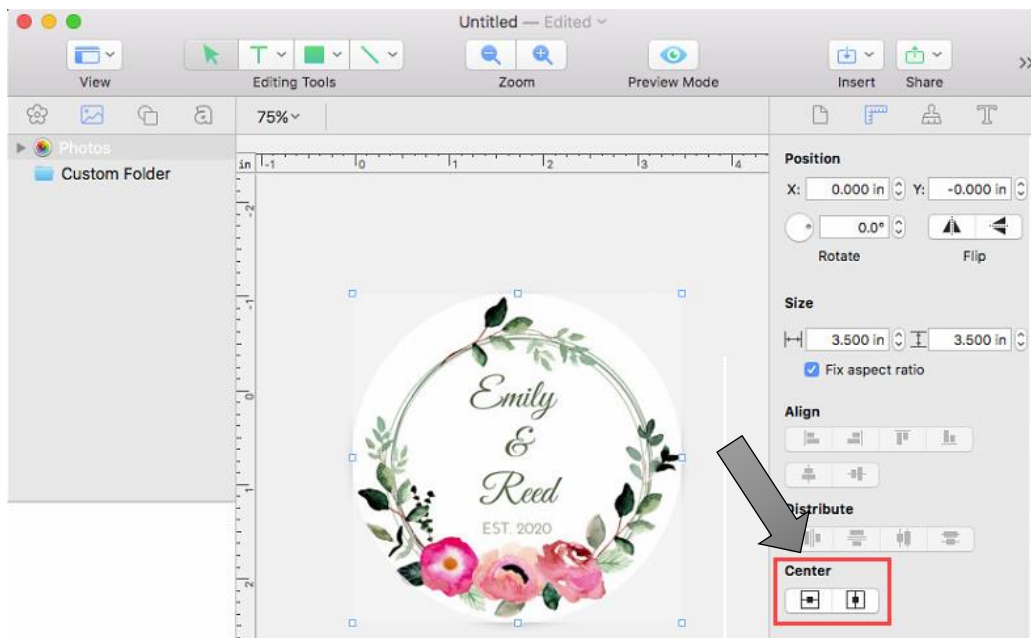


Image Selected

8. Now center the image by clicking both the horizontal and vertical centering buttons.

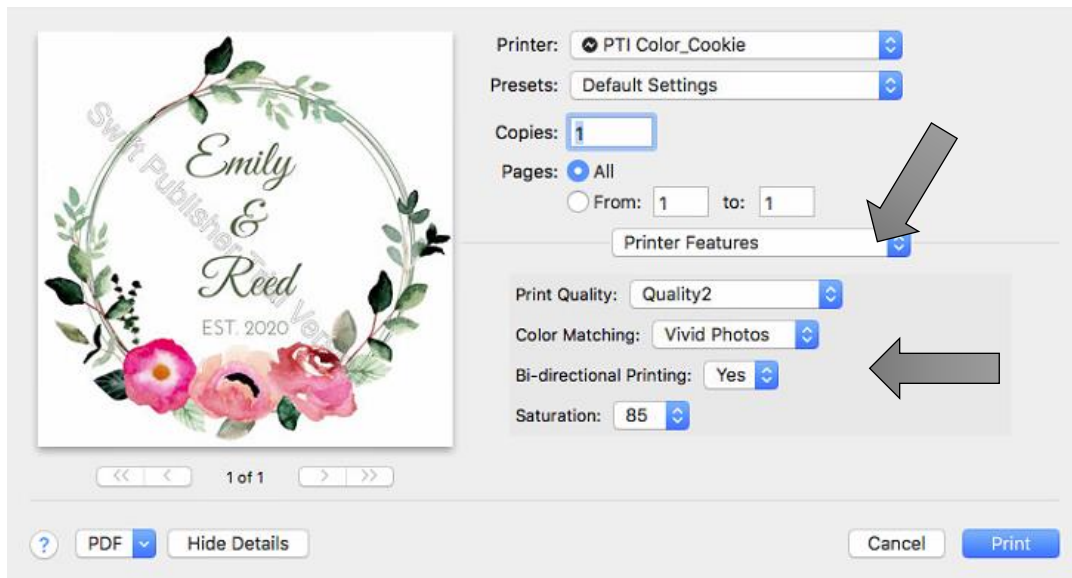


9. You are now ready to print. Click the Print icon to open the print box.



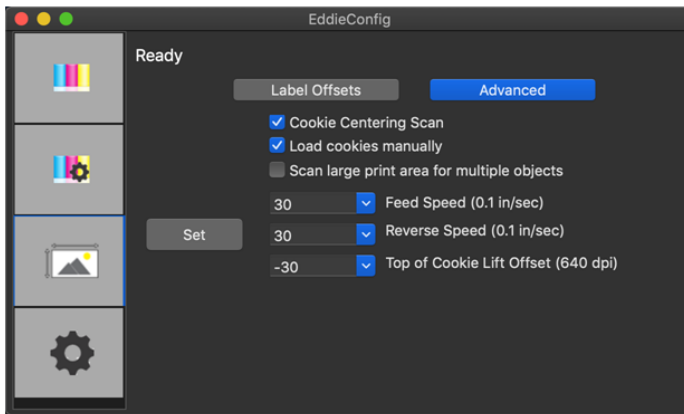
dialog

10. Select Printer Features from the dropdown menu. Adjust the settings if desired. Click Print.



## 5D Advanced Eddie Settings

In some situations you may need these advanced settings. Go to the Alignment Tab (3<sup>rd</sup> tab) and click the advanced button.



**Cookie Centering Scan.** Check to scan the front and back edge of the print item to adjust print start position. This is recommended for items that have size variability. It will cause slightly longer delays between printing. Uncheck this box to enable manual centering of a print object. This could be useful if your cookies are [occasionally not printing centered or you have inconsistent print start positions](#). The Printer will no longer perform the scan. Instead, it will start in a fixed position. To adjust centering, you will need to manually adjust the Horizontal Offset and Top of Cookie Offset on the settings tab. See section 5B.

**Load cookies manually.** See Section 6E for full details on this option.

**Scan large print area for multiple cookies.** Use this option if you are printing to a custom template that holds multiple smaller cookies. ([DTM Templates](#))

### Feed Speed/Reverse Speed.

This will slow down the center scanning processing making it less likely for smaller or lighter cookie to move during printing which causes [off center prints](#). Lower these values to slow down the forward(feed) and reverse speeds.

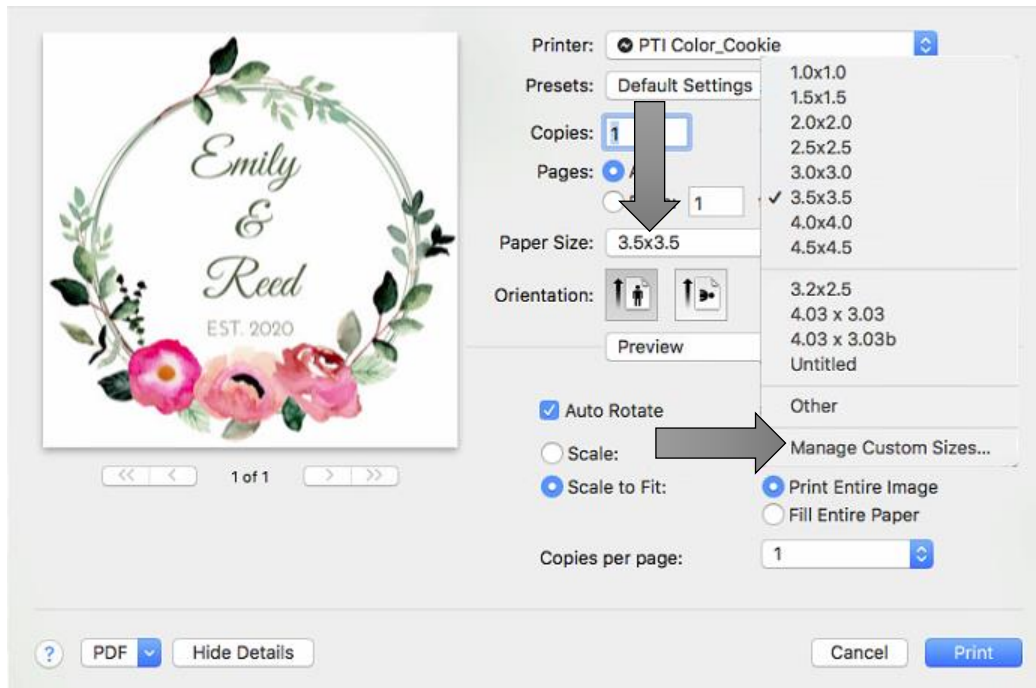
### Top of Cookie Lift Offset.

This controls the height of the print head. Increase the value to move the printhead further away from the print item. As you move the printhead away from the print item the sharpness of the print decreases. Decrease the value to move the print head closer to the object. As you move the printhead closer to the object the image will become sharper but there will be a danger that the printhead hits the print item during printing and either causes streaks or knocks the object off the print platter.

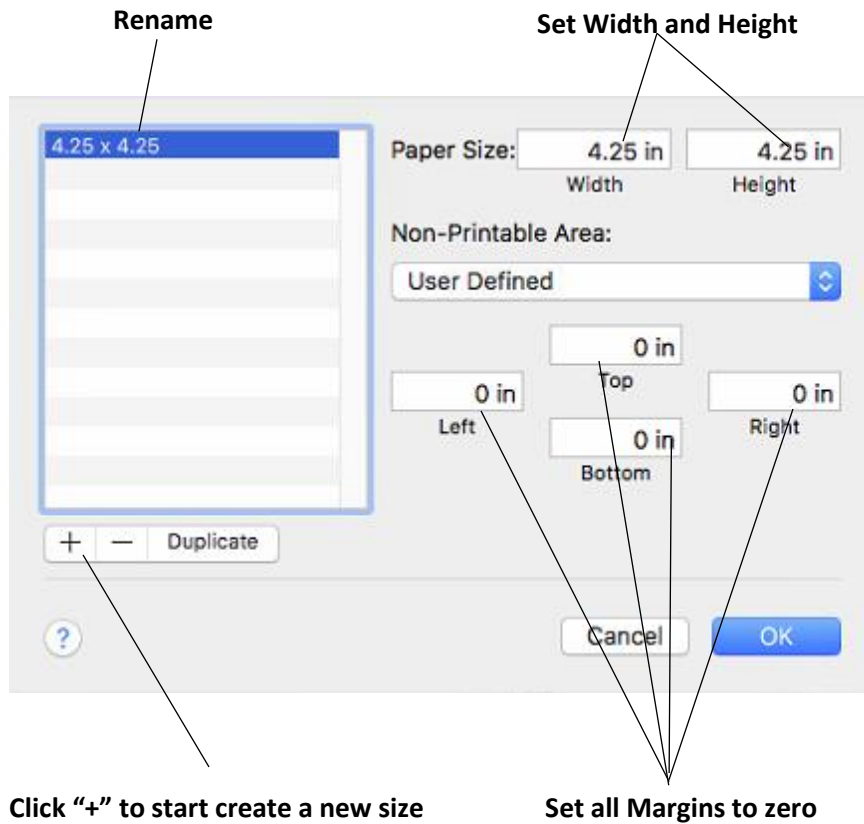
## 5E Creating a Custom Page Size

In many programs such as Adobe Illustrator, Photoshop or Acrobat Reader you will need to choose your label/page size before you print. If the label size you need to use is not already on the list of available pages sizes you will need to create a new custom size on the print screen of the program you are using to print.

1. Click the Paper Size drop down menu. Choose Manage Custom Sizes.



2. Click the + to create a new size.
3. Enter the height and width as the same.
4. Set all margins to zero.
5. Rename the size the same as the width and height.



6. Your custom size will now appear at the bottom of the preset size list in this application and any other application on this Mac.

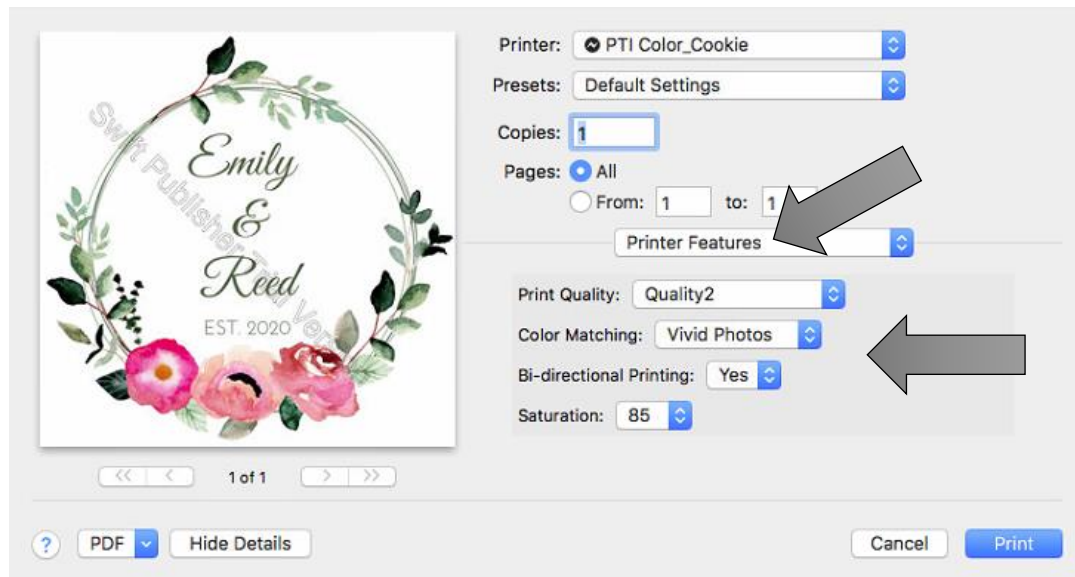


## 5F Printer Driver Settings

Printer driver settings are accessible on the print window of any application right before you click print.

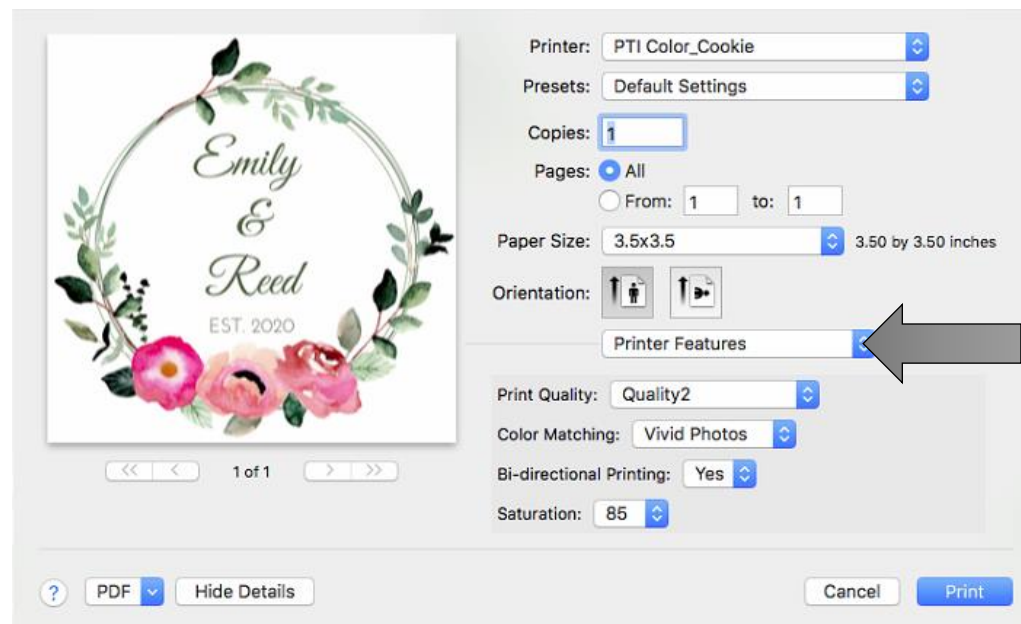
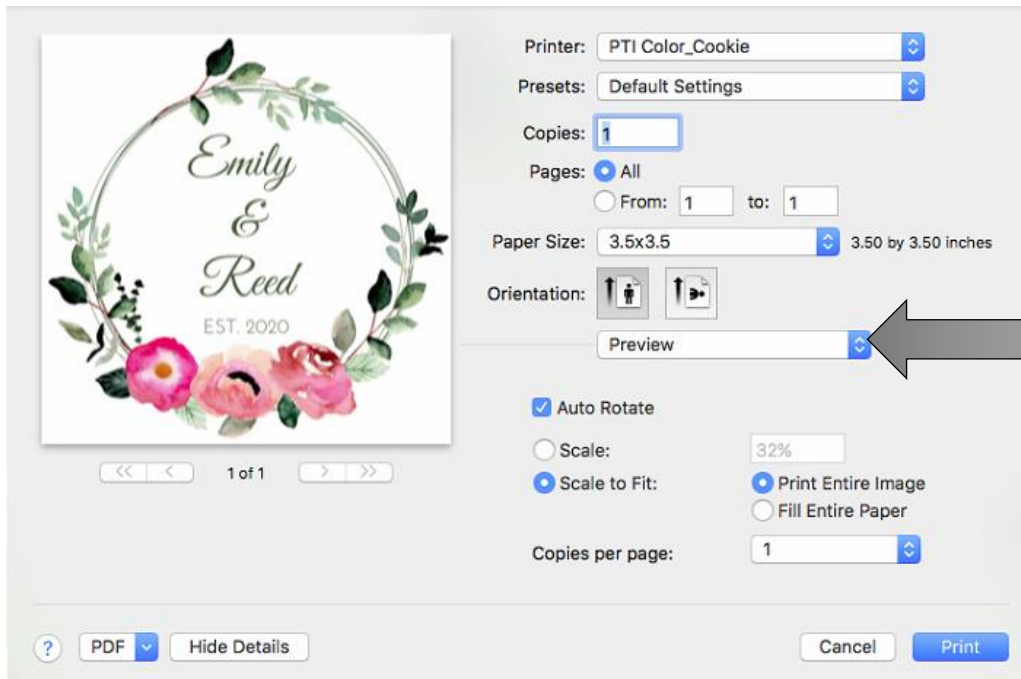
### Printing from Swift Publisher

Click on the Swift Publisher 5 dropdown menu and choose Printer Features.



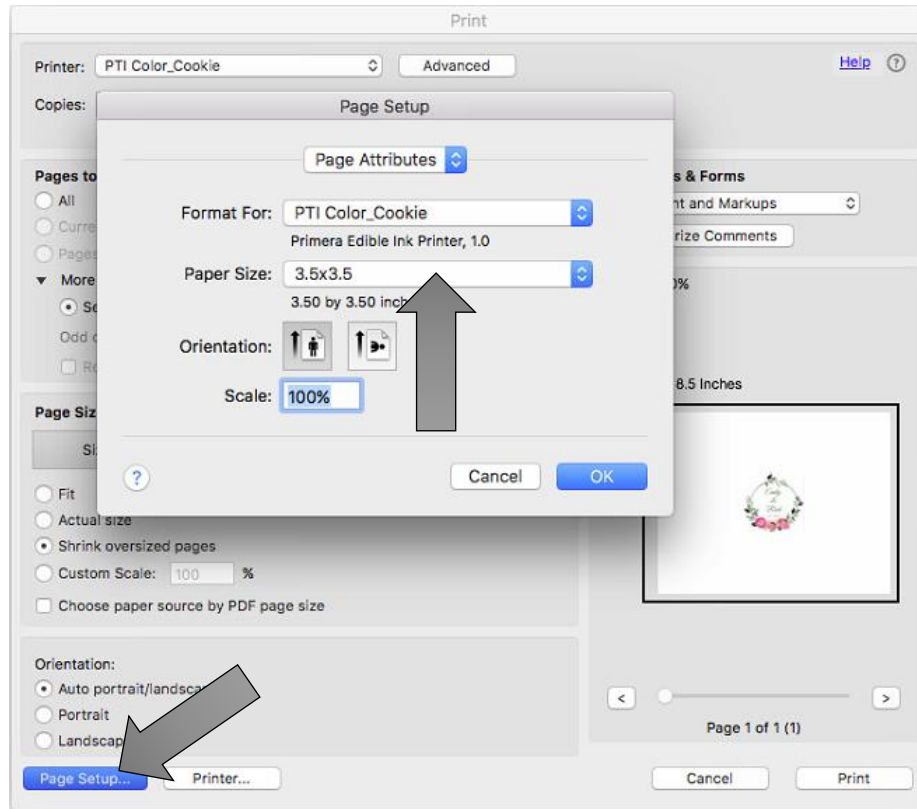
## Printing from Preview:

Click on the Preview dropdown menu and choose Printer Features.

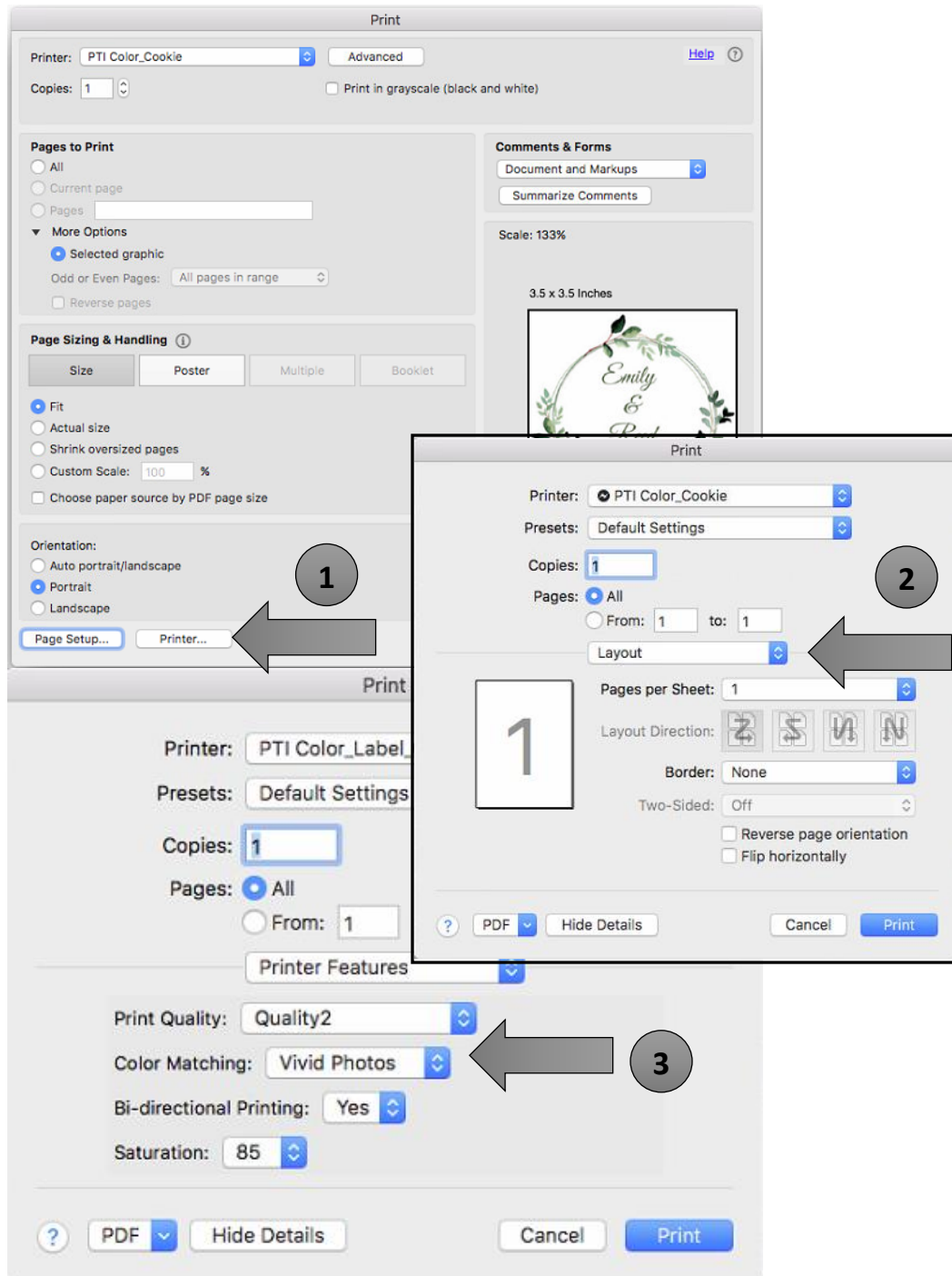


## Printing from Adobe Reader

1. First click on Page Setup to set your page size.



2. Next click on Printer... to access settings. Click on the Layout dropdown menu and choose Printer Features.



## Print Quality

There are 4 levels of print quality in the driver. The lower the Quality, the faster the print. Quality 1 provides the fastest print available while Quality 4 provides the best quality. It is recommended that you experiment with the different levels when designing your label to find a good balance between print quality and print speed.

### **Color Matching**

Best for Graphics mode is best used for graphical images where accurate color reproduction is not as essential. Images printed in this mode will look more vibrant because more ink is being used to produce them. However, printing images of people may produce skin tones that have a reddish tint.

Best for Photos mode is best used for photographic images where accurate color reproduction is very essential. Images printed in this mode will look lighter than those printed in Photo mode. Skin tones especially will look more natural in this mode.

**Note:** *Exact color matching of the printed labels to the screen may never be possible since there are factors that affect this out of the drivers control. The surface of the label reacts with the ink in the cartridge to produce the color. For this reason, when printing the same image to different types of labels with different surfaces the printed output can look entirely different.*

### **Ink Saturation**

This option controls the amount of ink used when printing an image. The default setting is 100%, which will provide the most accurate color matching. If the ink is not drying fast enough or is bleeding, you can decrease the Ink Saturation to lessen the amount of ink that is applied to the label.

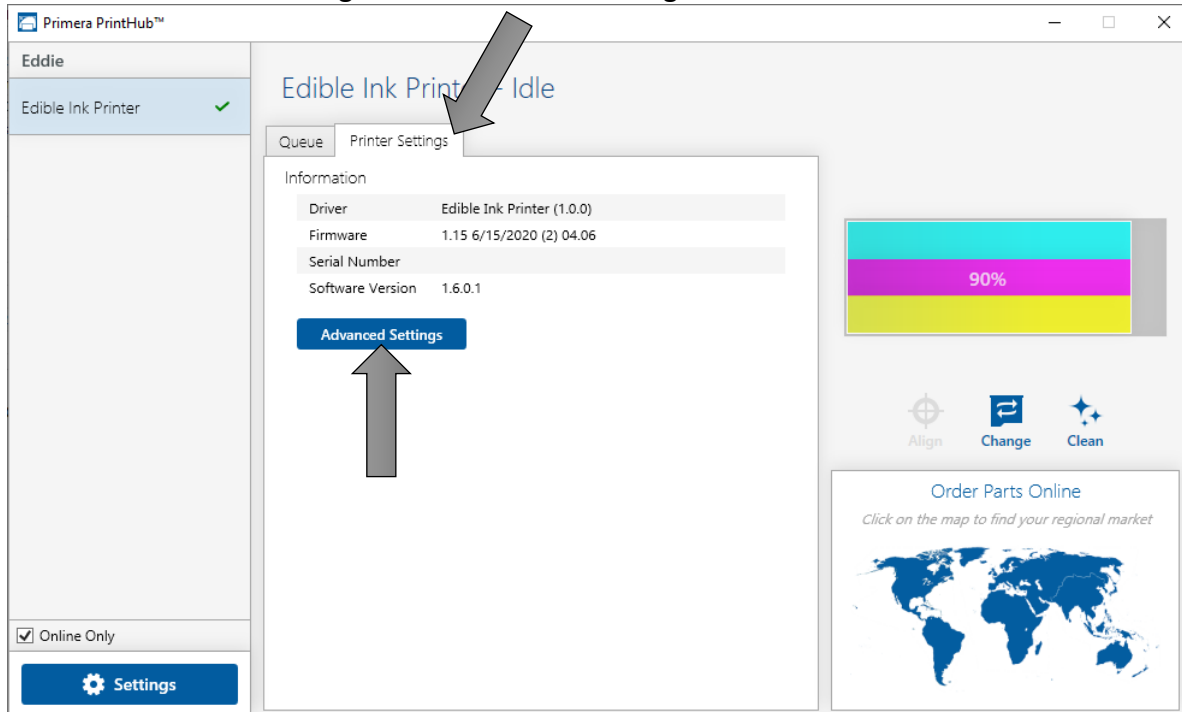
### **Enable Bidi (Bidirectional) Printing**

Set to "Yes" for fastest print speed. Requires an alignment print after every cartridge change. Set to "No" for better quality print (in some cases).

## Section 6 : Troubleshooting/Maintenance

### 6A Solving Print Alignment Problems

Normally the Printer scans the size and height of the cookie and adjusts accordingly. If you find that alignment is still off you it can be adjusted in the Advanced printer settings area. Click on the Printer Settings Tab – Advanced Settings button.



Two Offset settings apply to right/left and front/back alignment.

**Horizontal Offset** – This is the right/left offset. Increase values positive to move the print image to the printers left side (cartridge dock side). Decrease values to move the print image to the Printer's right side.

**Top of Cookie Offset** – This is the vertical offset. Increase values positive to move the print image toward the front of the Printer. Decrease values to move the print item away from you.

## 6B Maintenance/ Cleaning

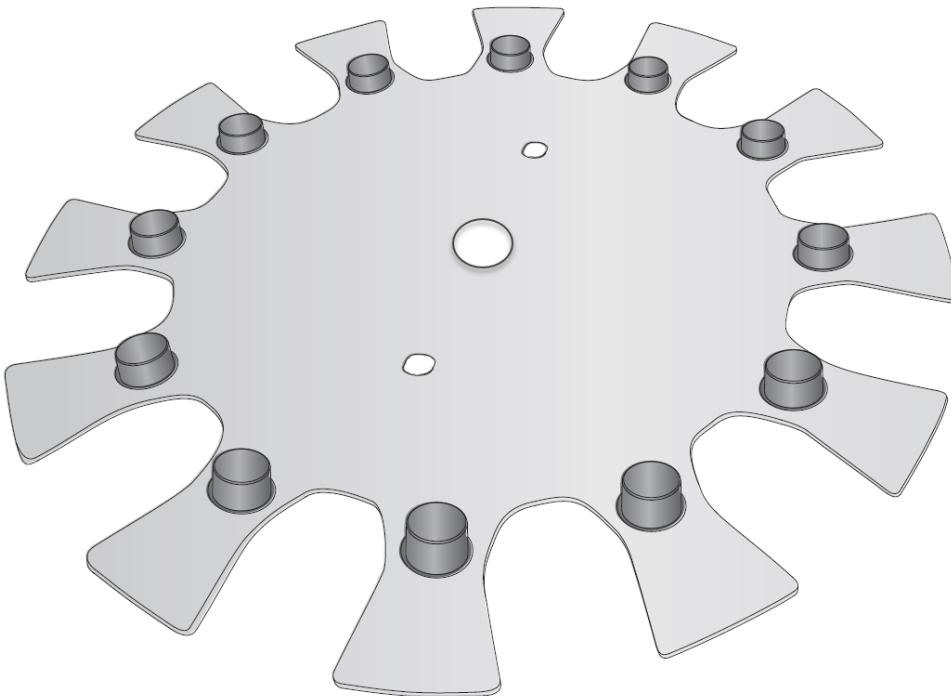
Eddie is made of stainless steel to facilitate easy cleaning. Each of the parts have their own cleaning schedule and procedure. Refer to the following subsections for more information.

**What to use:** All stainless-steel parts can be hand-cleaned on the Printer with mild detergent such as Dawn™ dishwashing soap or any automatic dishwasher soap. Other parts noted below can be cleaned with water.

### 6B1 The Carousel Platter

This can be removed from the Printer in fully submerged in water to clean or cleaned in a dishwasher.

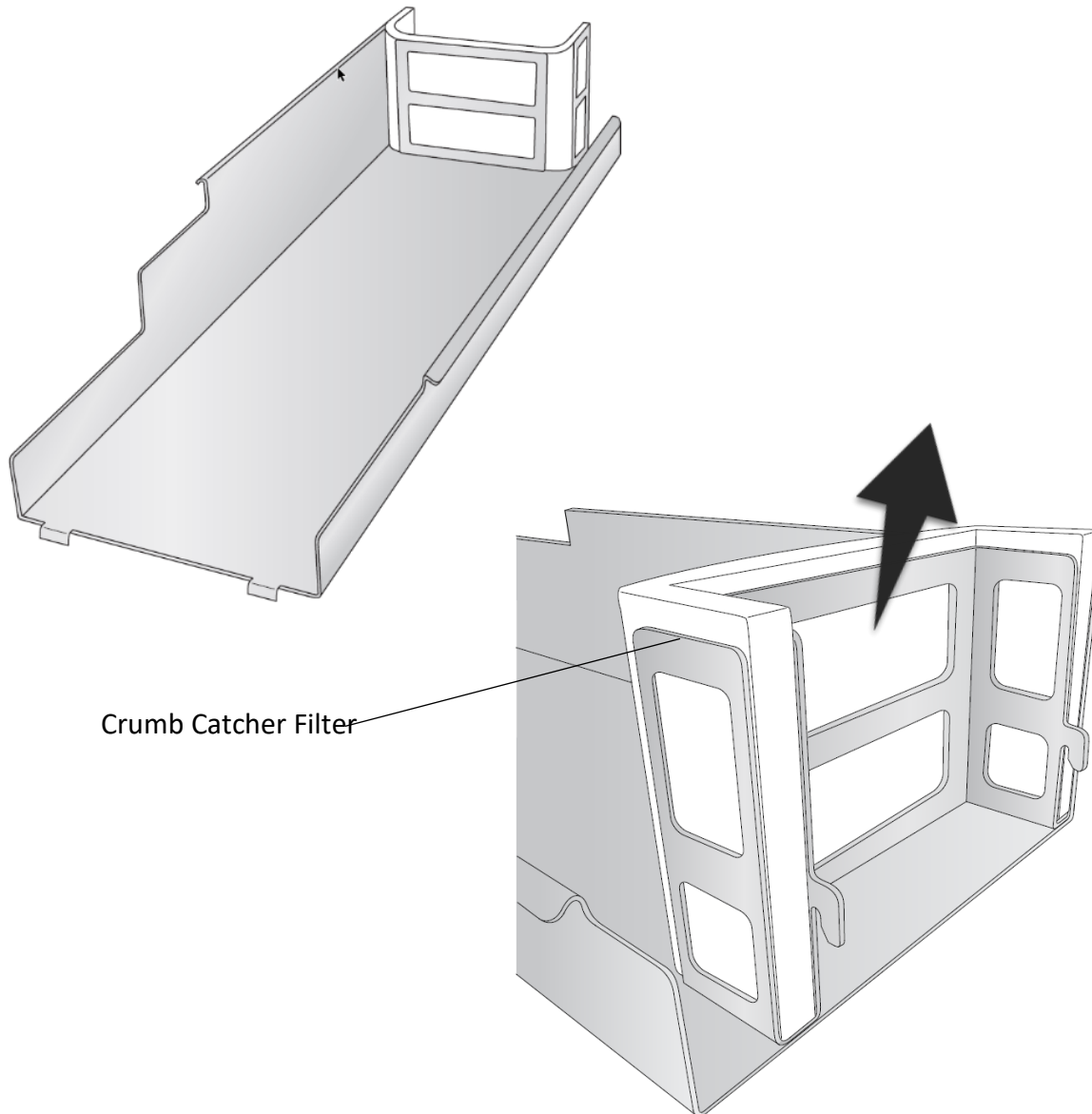
**Cleaning Frequency:** Clean Daily



## 6B2 Crumb Catcher

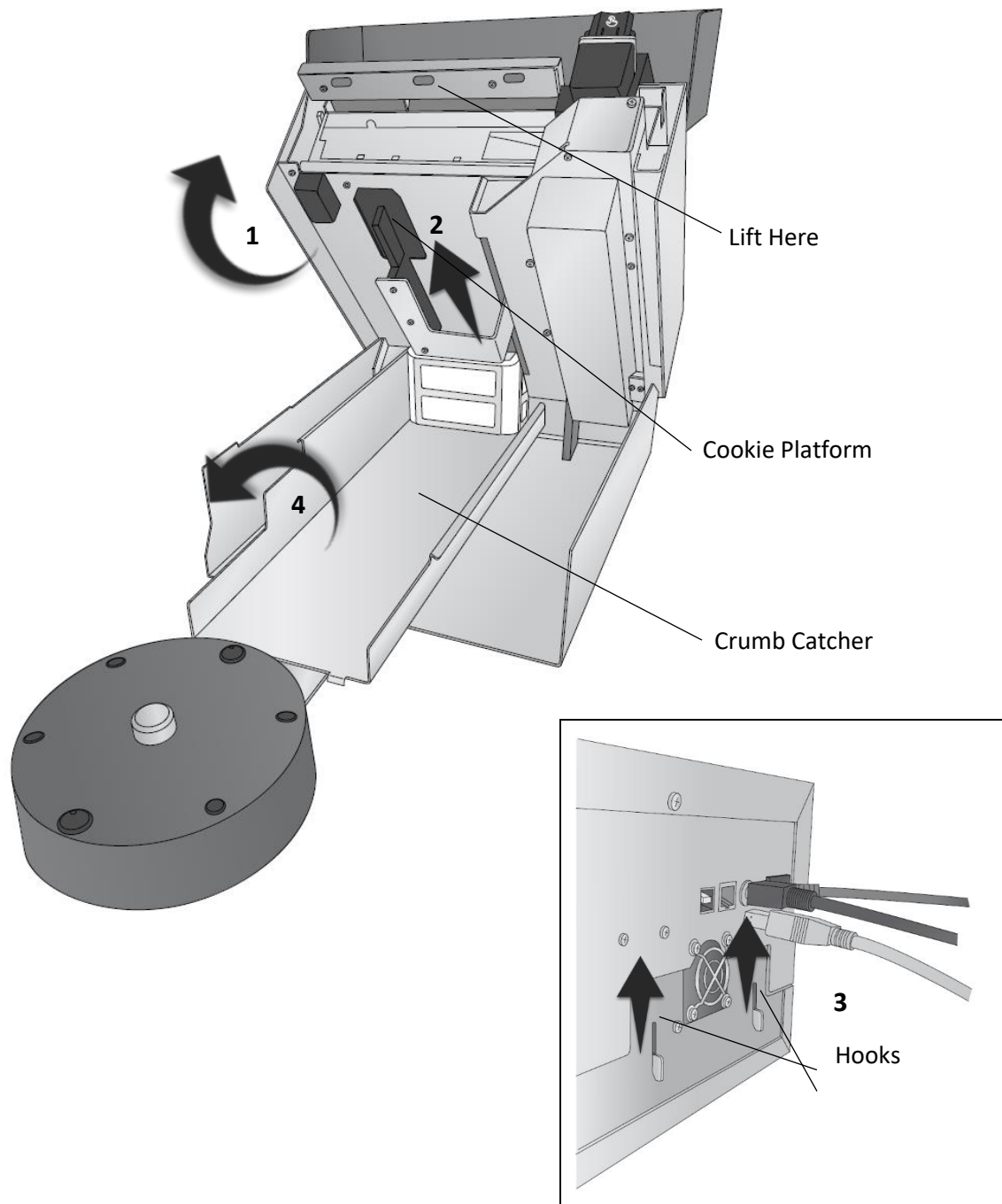
This can be removed from the Printer in fully submerged in water to clean or cleaned in a dishwasher. First Remove the filter. Wash separately by hand.

**Cleaning Frequency:** Clean Daily.



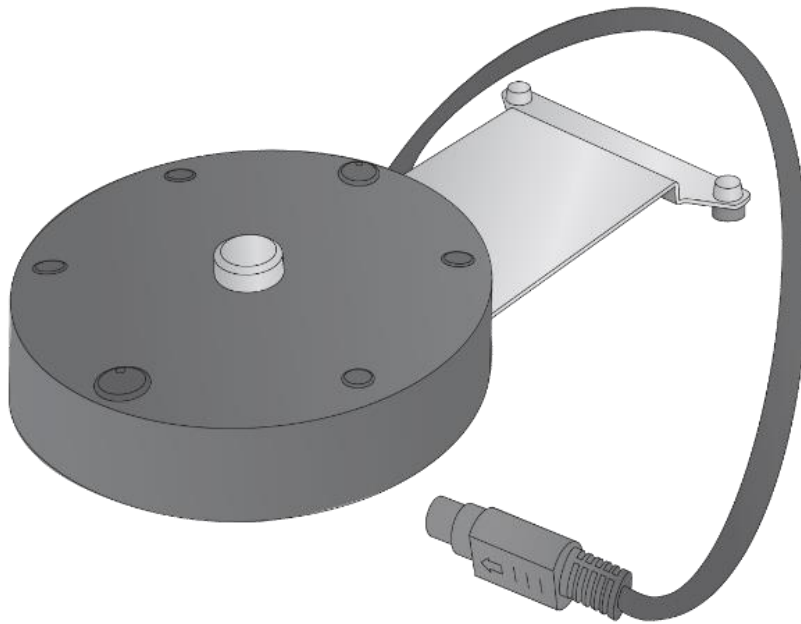


To remove the Crumb Catcher from the Printer first remove the Carousel Platter and then lift up on the top section of the Printer. Power should be connected at this point, so the Cookie Platform is moved out of the way. Now you may access the Crumb Catcher. Lift near the back to disengage the hooks that secure it to the back of the Printer.



## 6B3 The Carousel

This carousel cannot be submerged in water. Disconnect it from the back of the Printer. Submerge a soft cloth in a dishwashing soap/water mixture. Wring the cloth until it is damp but no dripping water is present. Wipe the carousel clean with the damp cloth. Repeat the process if necessary. Before connecting power ensure that the Carousel is completely dry.  
**Cleaning Frequency:** Clean Weekly.

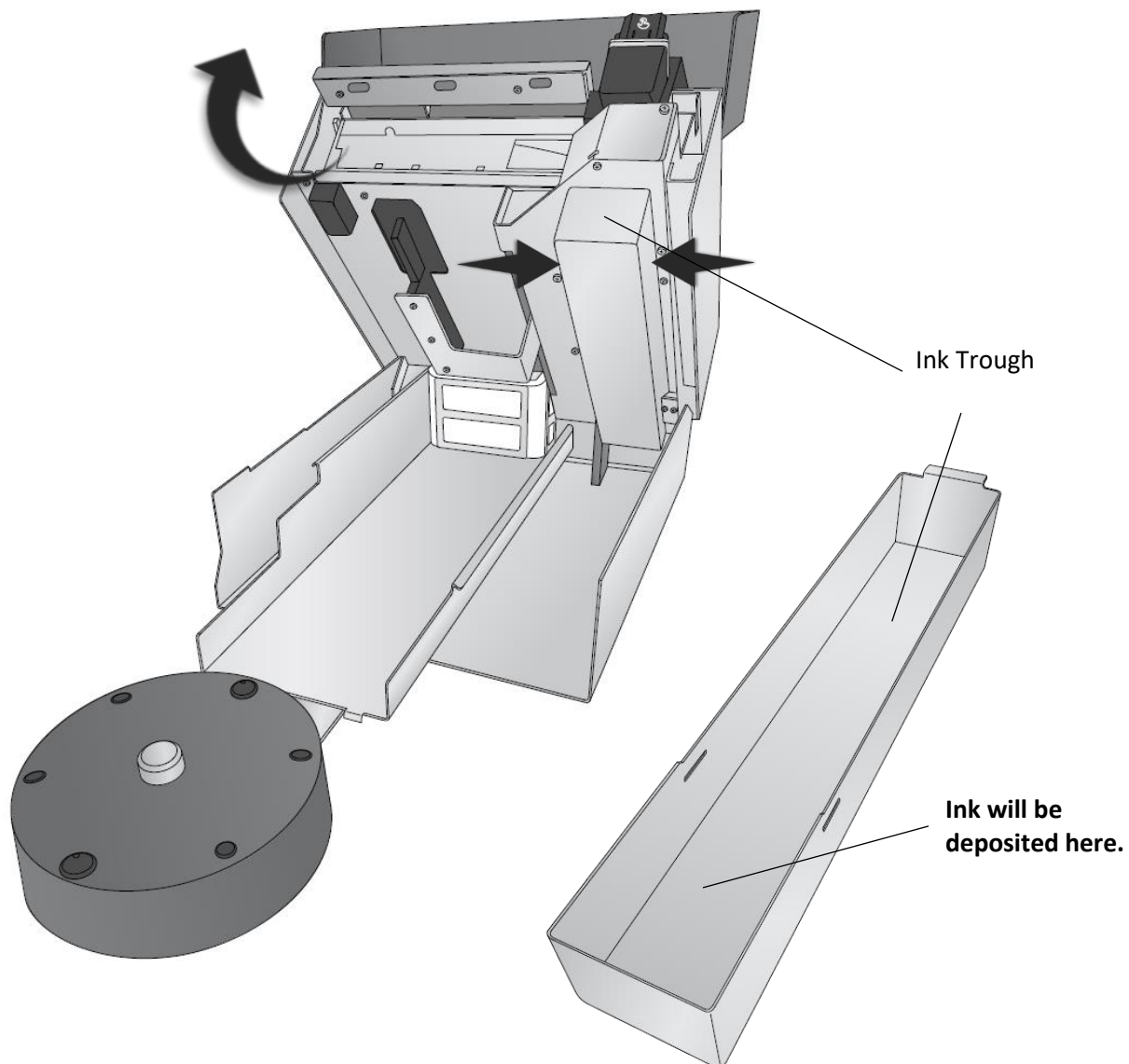


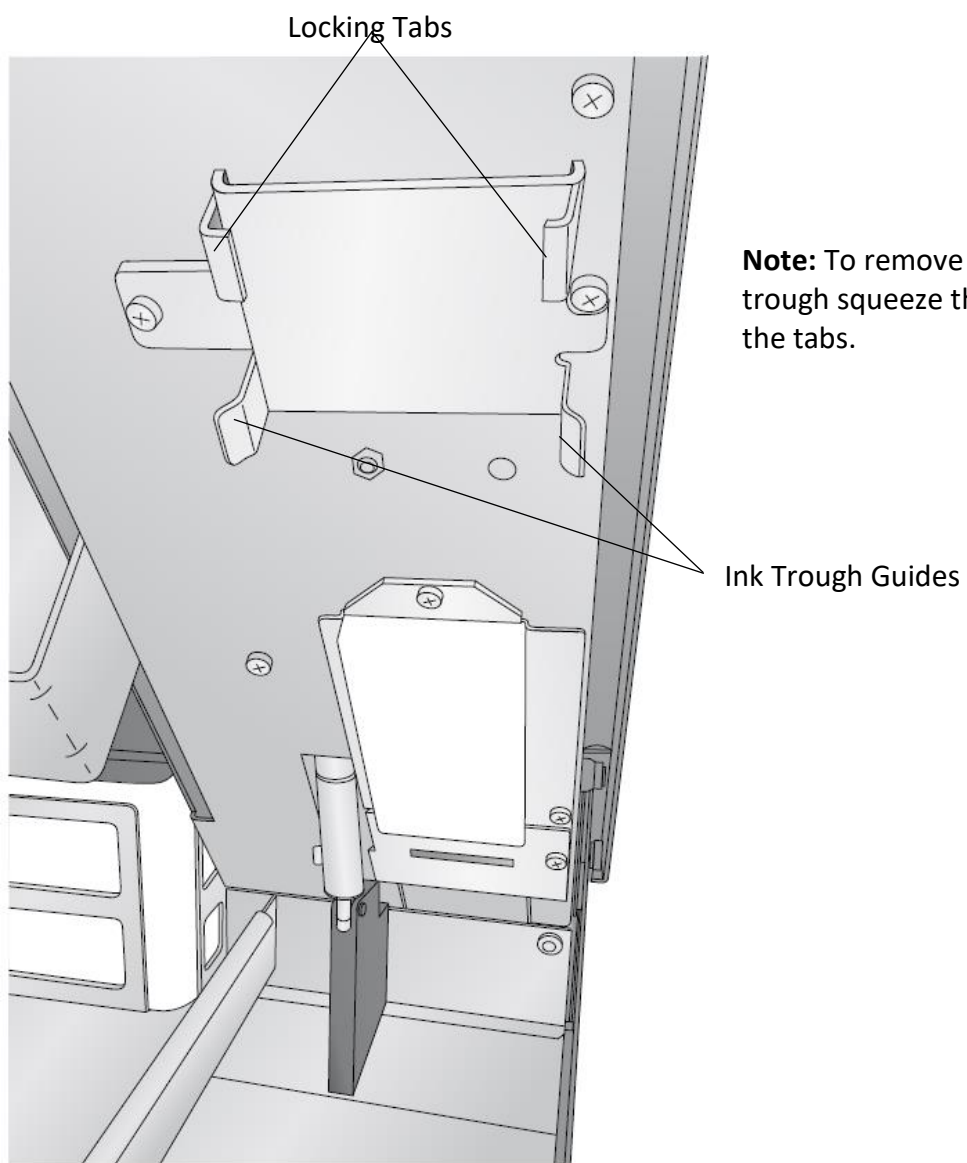
## 6B4 Ink Trough – Clean Weekly

Eddie will do periodic maintenance to ensure the nozzles are clear and ready for printing. This ink is deposited in the washable/replaceable filters and in the Ink Trough.

The ink trough will need weekly or even daily cleaning to prevent overfilling and leaking. Please watch the [cleaning video](#) for filter and ink trough cleaning instructions. The Ink Trough can be accessed by lifting up on the top section of the Printer. Squeeze the steel together near the top to disengage the locking tabs. This item can be placed in a dishwasher.

**Cleaning Frequency:** Clean Weekly.

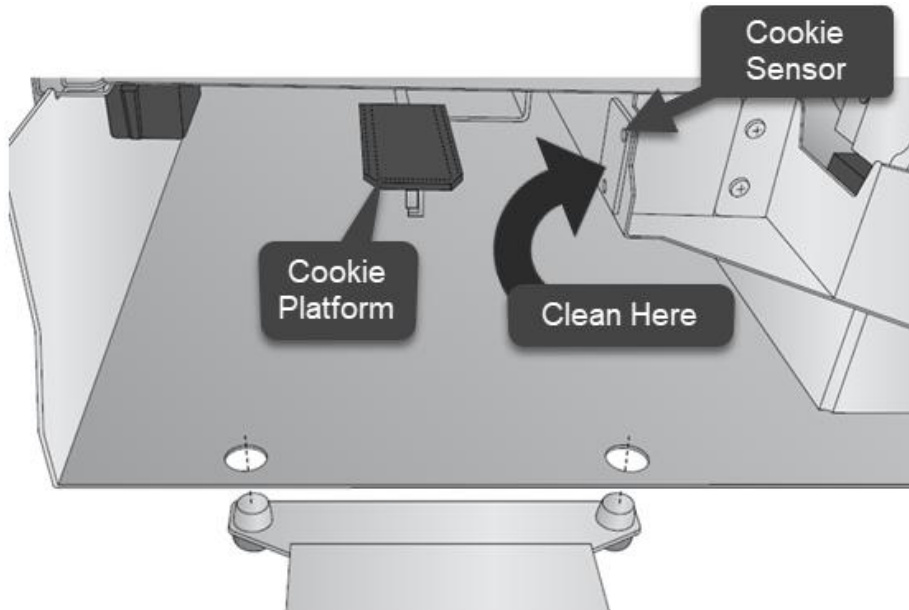




## 6B5 The Cookie Sensor – Clean Weekly

Ink overspray mist may be interfering with the cookie size sensor. Clean the cookie sensor with a damp cloth. It may also be beneficial to clean the filters, as shown in Section 6C. A clogged filter can cause ink overspray mist to build up more quickly.

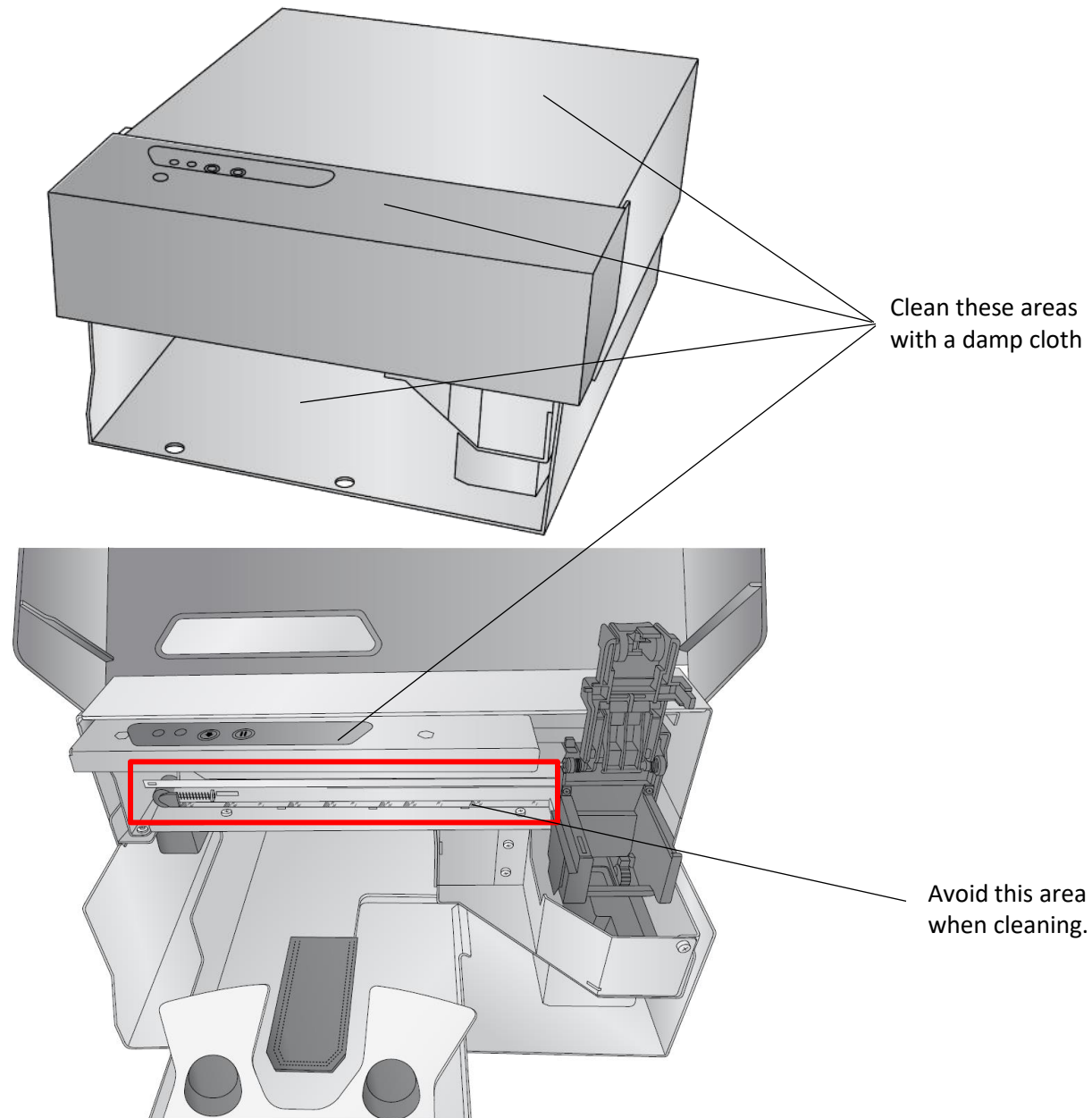
**Cleaning Frequency:** Clean Weekly.



## 6B6 Exterior and Interior of Printer – Stainless Steel Surfaces

These items cannot be submerged in water. Disconnect power from the back of the Printer. Submerge a soft cloth in a dishwashing soap/water mixture. Wring the cloth until it is damp but no dripping water is present. Wipe the areas clean with the damp cloth. Repeat the process if necessary. Before connecting power ensure that the all surfaces are completely dry. Avoid cleaning or touch the encoder strip and the drive belt area.

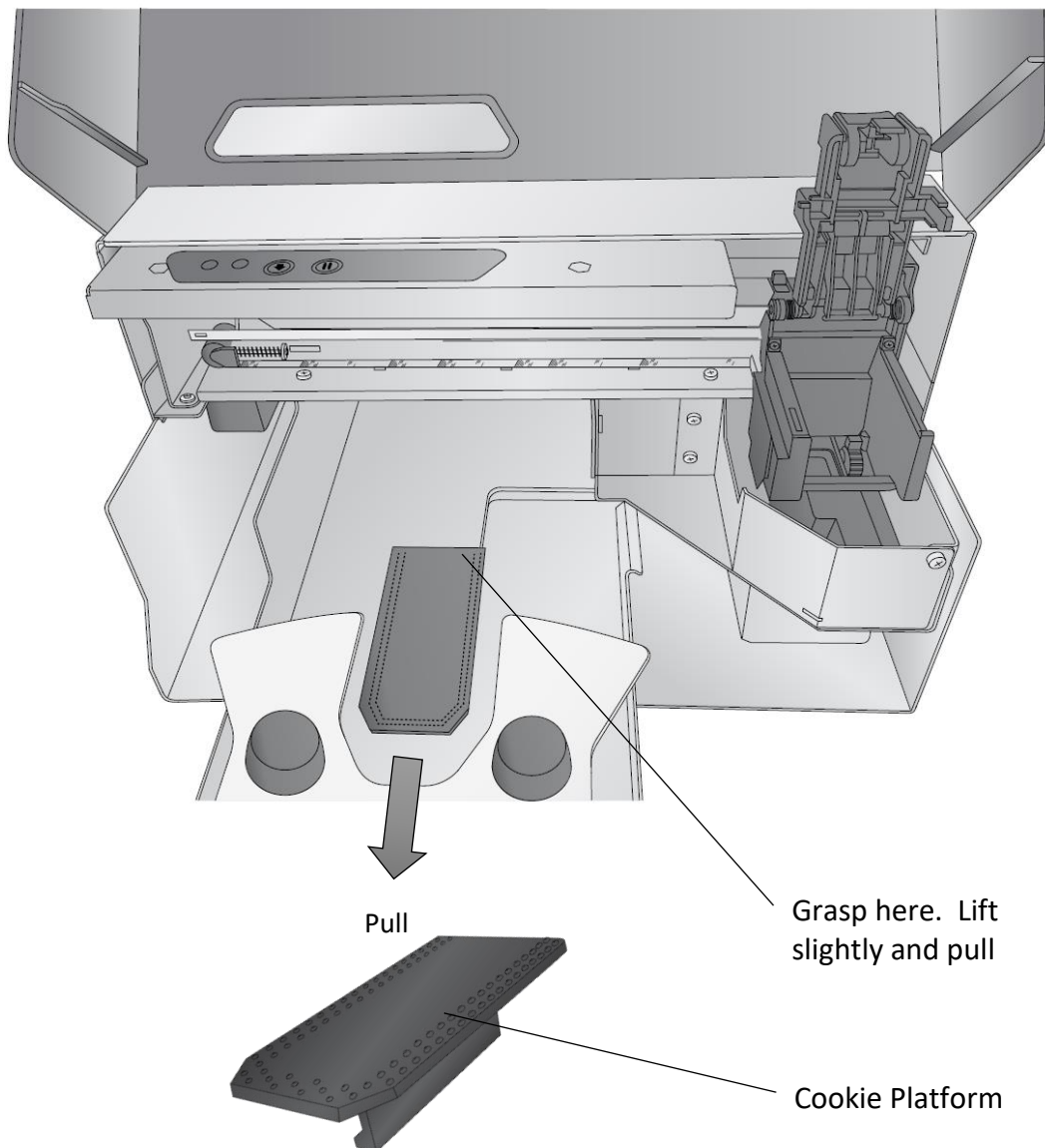
**Cleaning Frequency:** Clean as needed.



## 6B7 The Cookie Platform

The Cookie Platform will accumulate crumbs and edible ink overspray. Occasionally brush the crumbs from the platter into the Crumb Catcher below. This will ensure that cookies are lifted and moved properly and are level and in the correct position for printing. If more thorough cleaning is necessary, disconnect power from the back of the Printer. Remove the Cookie Platform by lifting up slightly on the back of the platform and then pulling out. The Cookie Platform can be placed in the dishwasher. It can withstand boiling temperatures of 212 degrees but it should be kept away from any heating elements near the base of the dishwasher.

**Cleaning Frequency:** Inspect/Clean Daily. Visually inspect the area if no crumbs or frosting is visible cleaning is not required.



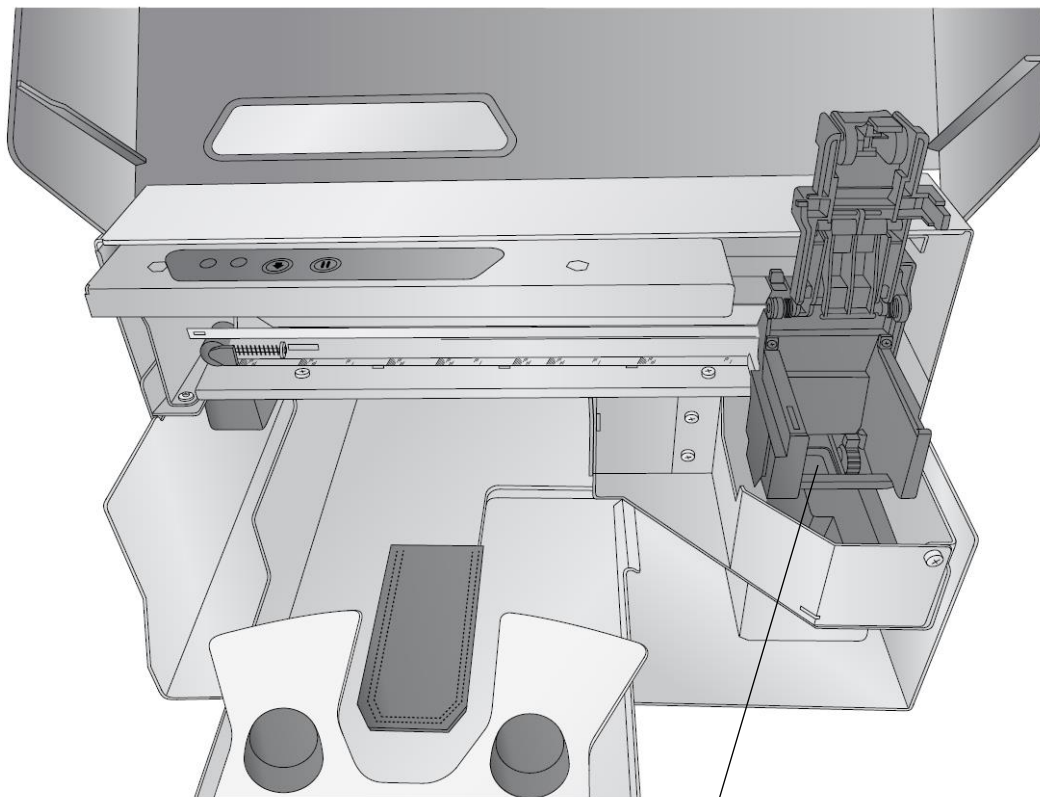
## 6B8 Ink Maintenance Area (Wiper and Cap)

This area should be cleaned with water and a cotton tipped cleaner. Open the cartridge lid and remove the cartridge. This will expose the black rubber cartridge cap.

To access the wiper, open the top lid, press and hold the load/feed button for 3 seconds. The cartridge cap will be retracted, and the wiper will be exposed. The wiper will stay in this position for 10 minutes or until you press the Pause button again. Normally the wiper is hidden away under a small plastic housing at the front of the Printer.

**Clean with** a cotton tip cleaner and water. Dry thoroughly.

**Cleaning Frequency:** Clean/Inspect weekly. Visually inspect the area if no ink is visible cleaning is not required.



Cap/Wiper location



## 6C Replacing the Ink Filters

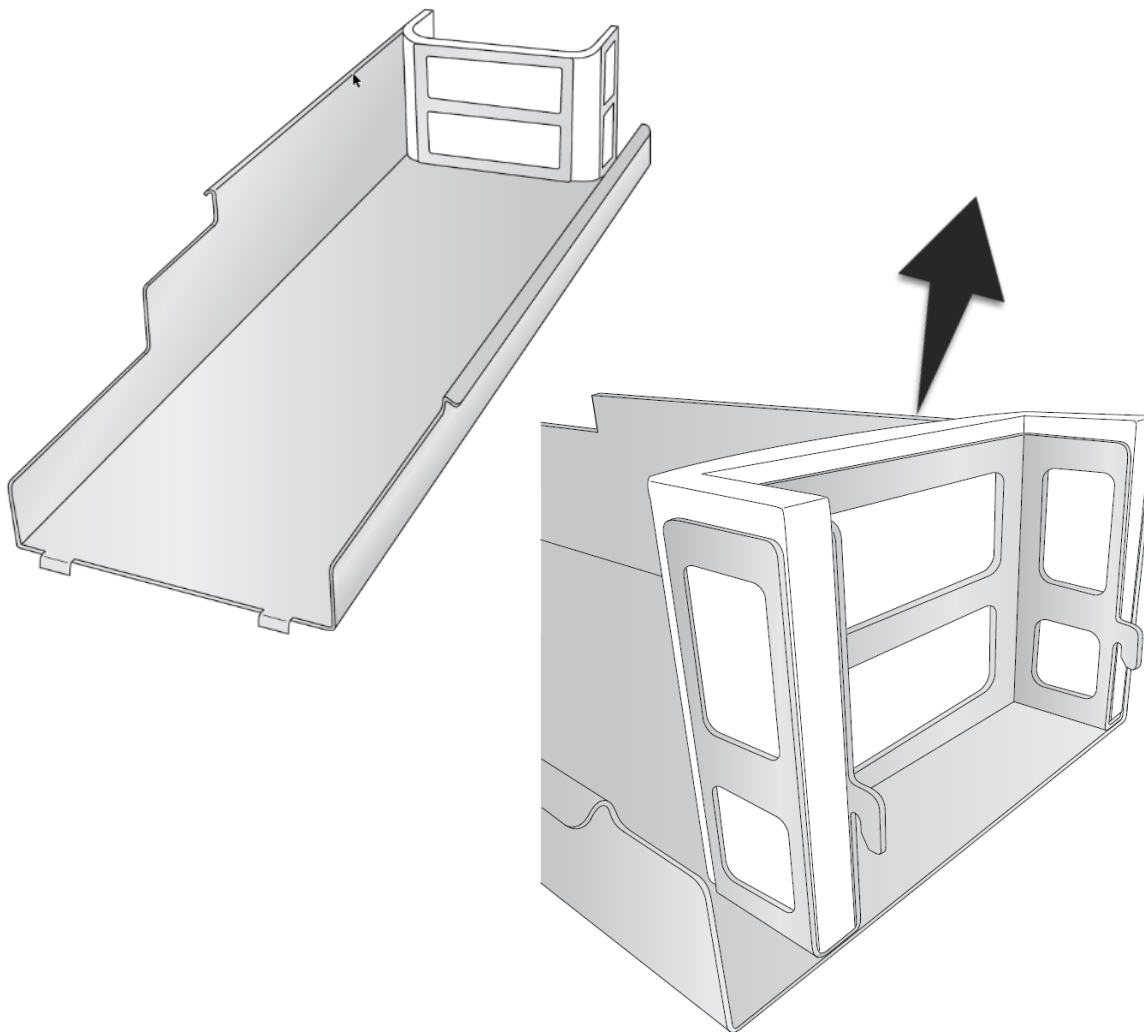
There are two ink filters that capture ink overspray that naturally occurs during Printer. These filters can be clean or replaced. Filters are available on Primera's website.

**Filter Pack.** SKU 740123 - Contains ink trough filter and Crumb Catcher filter set.

### **Crumb Catcher Filter Replacement**

The filter can be removed from the Printer in fully submerged in water to clean.

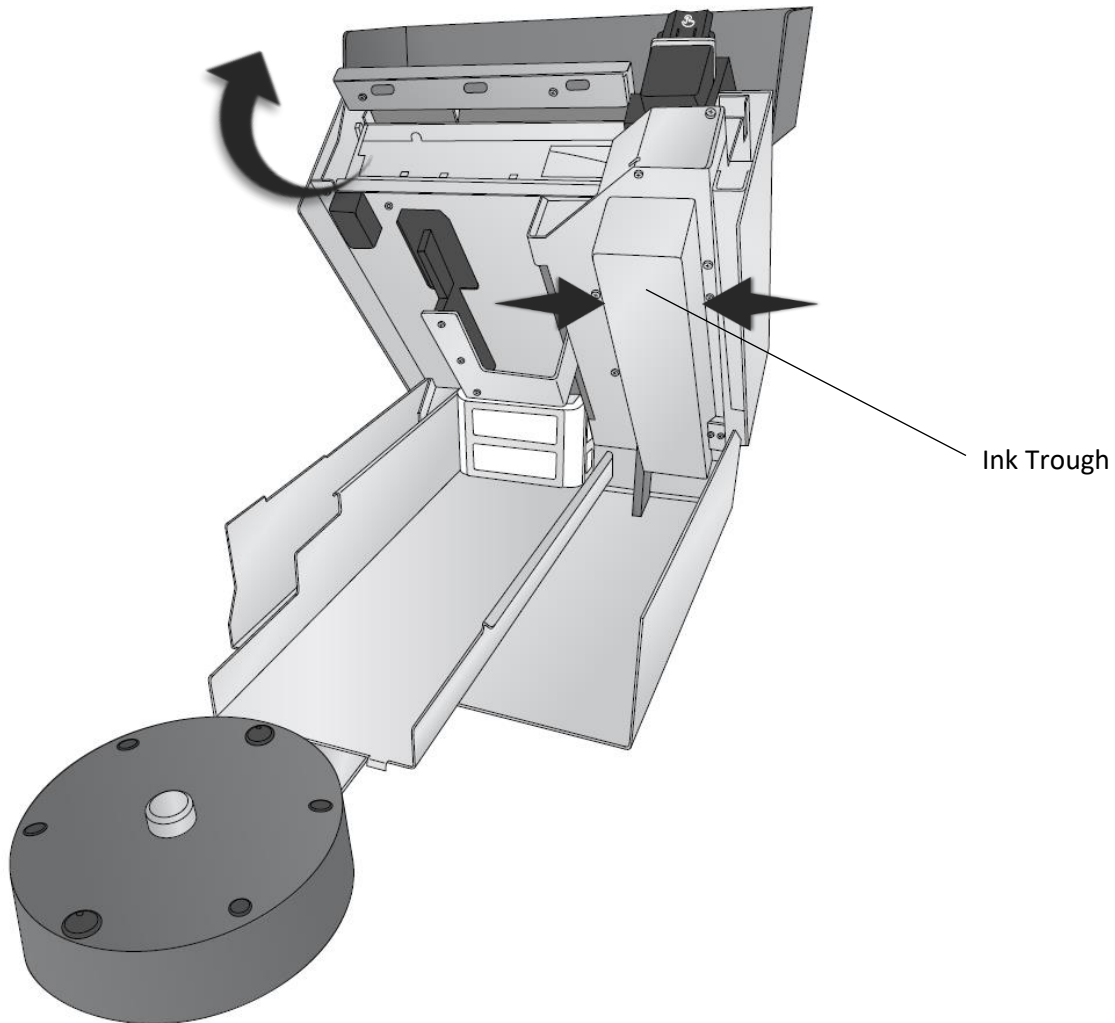
**Replacement/Cleaning Frequency:** Clean monthly. Replace every six months

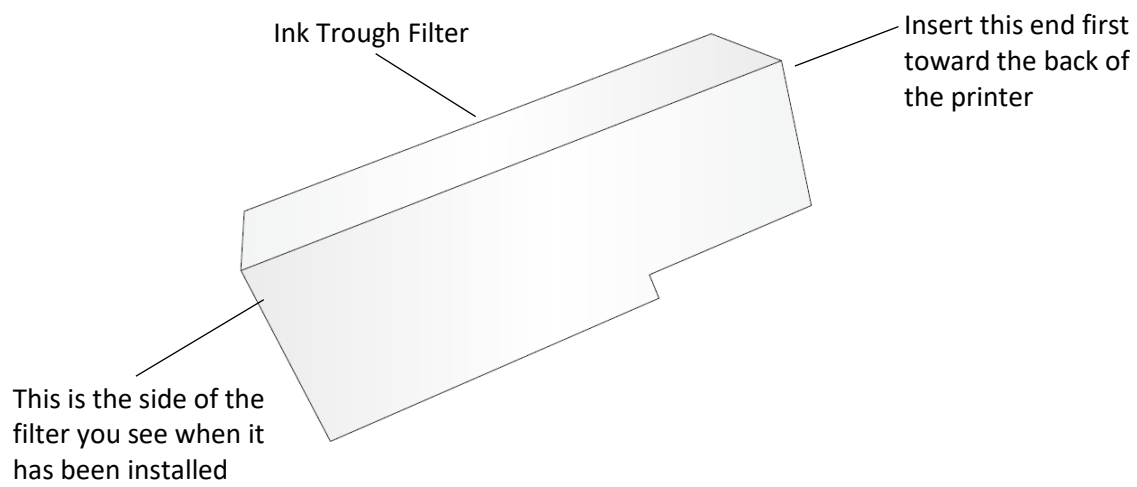
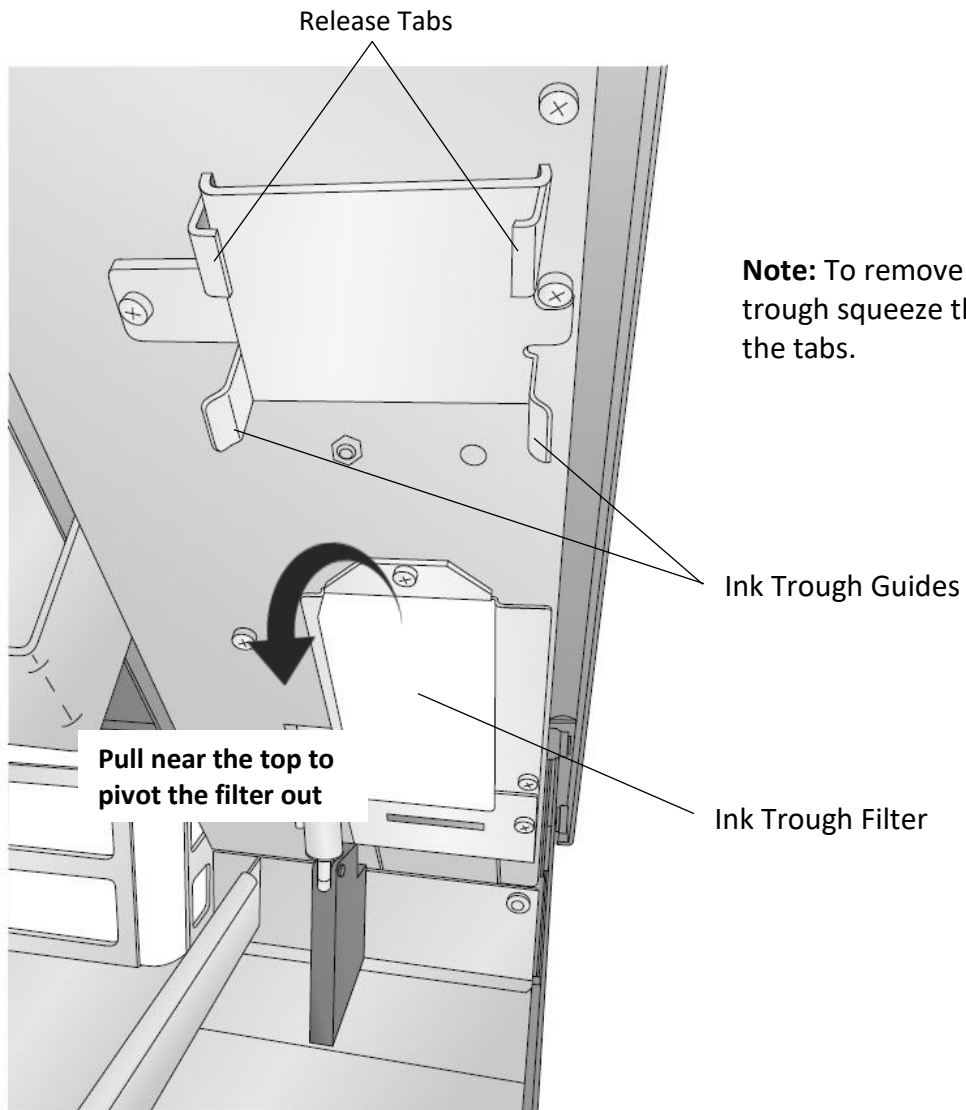


### **Ink Trough Filter Replacement**

The Ink Trough can be accessed by lifting up on the top section of the Printer. Squeeze the steel together near the top to disengage the locking tabs. Once the trough is removed, the filter can be accessed near the back of the Printer.

**Replacement/Cleaning Frequency:** Clean Monthly. Replace every six months.



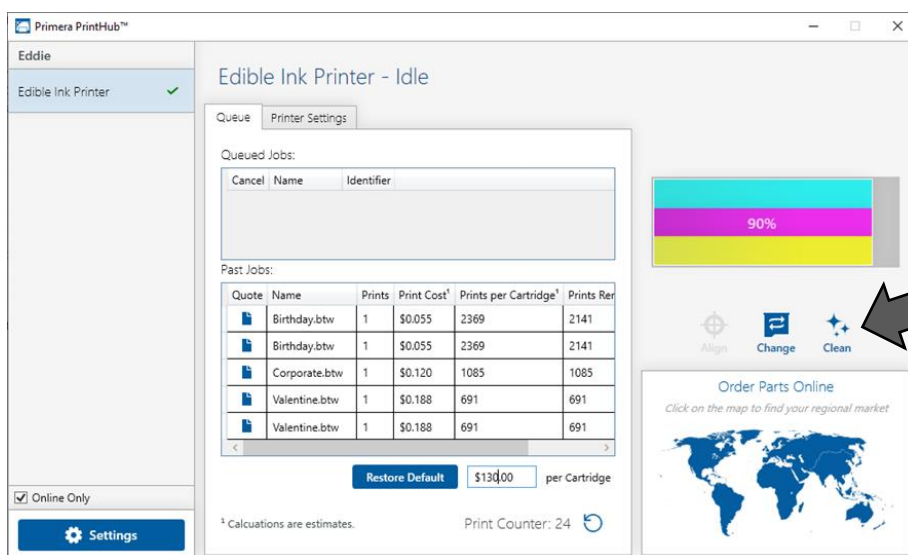


[illegible]

## 6D Poor Print Quality – Cleaning the Cartridge

It may be necessary to clean the ink cartridge nozzles if you notice reduced print quality, or if you suspect a cartridge nozzle has become slightly dried out or clogged. If the cartridge has been left out of the Printer more than 30 minutes, the ink in the print head nozzles may have dried. If you are having print quality problems, follow the steps below:

1. Before moving on to the next step, ensure that the ink level of the color cartridge is more than 10%. If the ink level is lower than 10%, replace the cartridge.
2. Try cleaning the cartridge using the clean function in PrintHub.



3. Determine if printing is now acceptable by printing your image. If the sample has missing colors or voids within a color strip, remove the cartridge from the Printer and proceed to step 4.
4. Prepare items needed for procedure

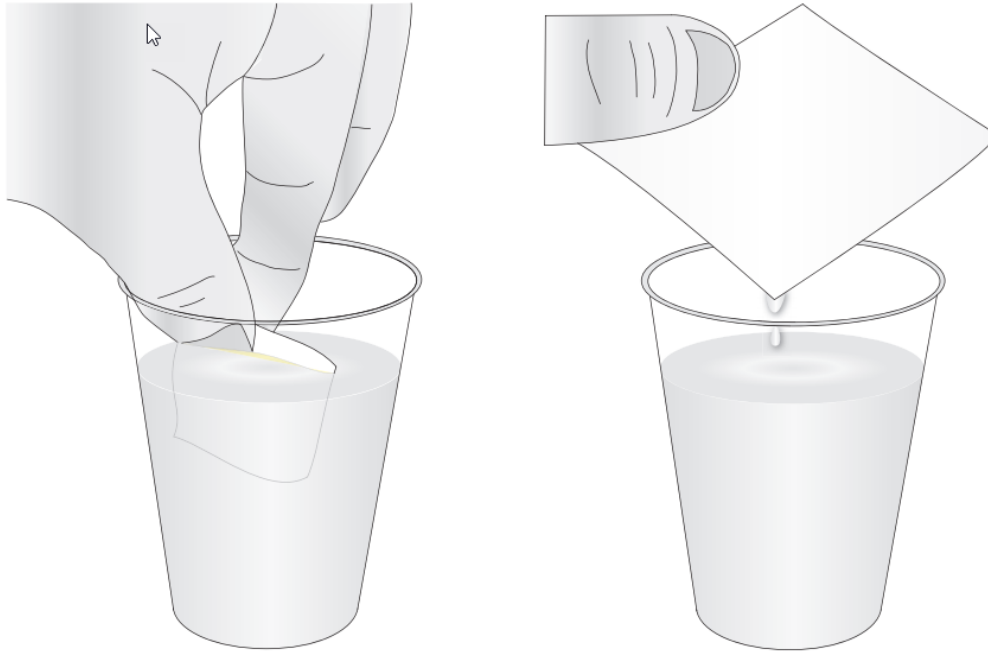
Two Paper Towels  
folded four times each



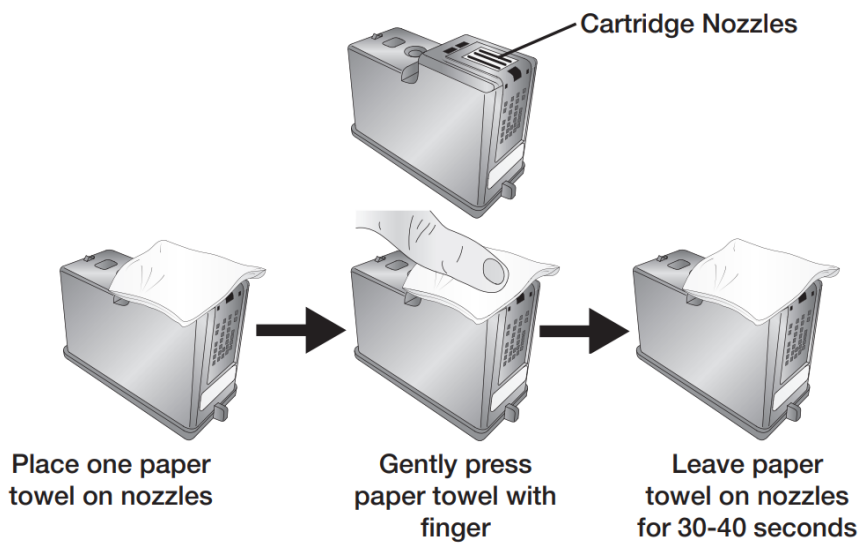
A Glass of Water



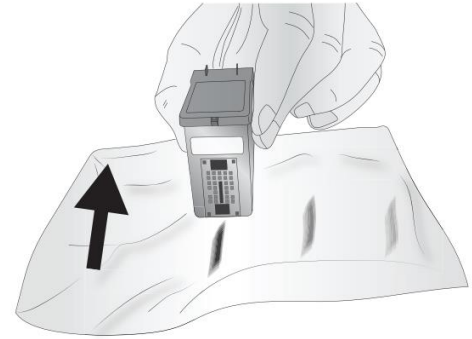
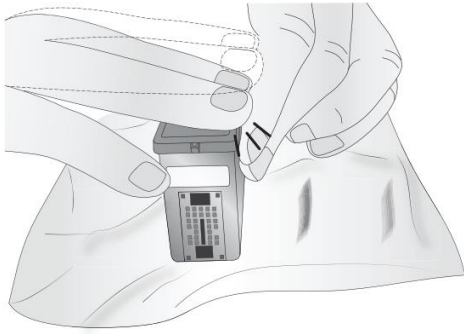
5. Soak the paper towels in water for 5 seconds.



6. Place one paper towel on cartridge nozzles. Gently press the paper towel with your finger. Leave the paper towel on the nozzles for 30-40 seconds.



7. Wipe the nozzles.



- a. Place second paper towel on flat/hard surface.
- b. Press the nozzles into the paper towel.
- c. Firmly tap the top of the cartridge three times to force the ink out.
- d. Wipe/Drag the cartridge in the direction indicated.
- e. Repeat until all colors are seen on the paper towel. After wiping the nozzles, the paper towel should show all three colors. If all three colors are present, proceed to step 8. If the paper towel doesn't show all three colors, then repeat step 7. If paper towel still doesn't show all three colors repeating step 7, then replace the cartridge.



#### 8. Dry the cartridge.



Dry excess water from cartridge. Ensure cartridge contacts are completely dry. Printer damage may result if cartridge contacts are not completely dry.

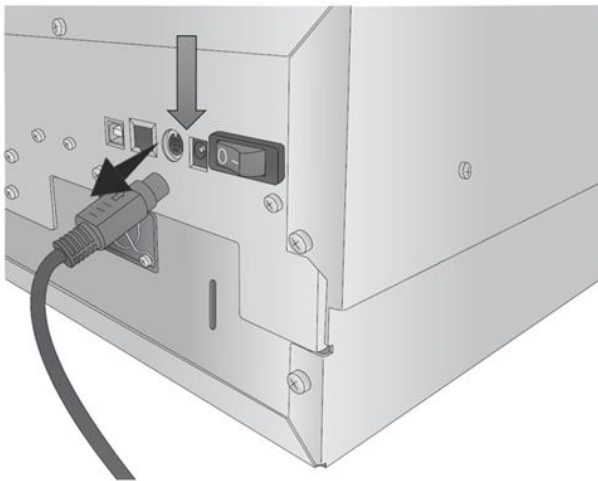
#### 9. Verify cartridge is now functioning properly by printing your image.

## 6E Manual Feed Mode

Manual feed mode allows you to load cookies by hand directly to the print platform. This can be used for oversized or irregular-shaped cookies that don't fit well on the carousel platter.

To enable manual feed:

1. Update to the latest firmware 1.25 or higher. To update firmware, open PrintHub - choose settings - Click the Update tab.
2. Once the firmware has been updated, power off the Printer.
3. Disconnect the carousel platter six pin mini din cable in the back of the Printer. (You do not need to detach the carousel. However, you may find it easier to remove the platter.)



4. Power on the Printer. When the Printer is powered on with no carousel detected, it will automatically go into manual feed mode.
5. Now send a print (or multiple prints).
6. The platform presents itself.
7. Load the item.
8. Press the Pause button.
9. The item is then printed and presented.
10. Load the next item and press Pause again to print it and repeat the process.



## 6F Error Messages (Knowledgebase).

1. [Platform Feed Obstruction](#)
2. [Cookie Out Error](#)
3. [Trouble Finding Cookie / Remove Cookie](#)
4. [Ink is Expired](#)
5. [Carrier Stall](#)
6. [Cookie is not printing Centered – How to Overbleed](#)

## 6G Interpreting LED Indicator Lights (Flashing Lights).

Most error messages will appear on your computer screen via the PrintHub application or the Printer Utility (Mac). However, if the error prevents communication with the computer, the LED lights may be used to help diagnose the problem.

LED	Status	Explanation
Power LED	Solid	Printer is connected to Power and in Idle/Ready state
Power LED	Slow Flash during printer movement	Printer is going through the startup sequence, printing or calibrating. This will occur any time the carousel or cookie platform is moving.
Power LED	Fast Flash – no printer movement	Error is present which prevents printing. Please open PrintHub or Config Utility(Mac) for more information. Light will blink with internal LEDs if enabled.
Ink LED	Flashing	Ink is low - Replace the ink Cartridge
Internal Blue and Green LEDs	Flashing no printer movement	An Error is present –Flash only occurs if set to flash in the advanced settings. You can turn this off! (See Section 3E -PC and 5D-Mac)
Internal Blue and Green LEDs	Flashing while printing	Alternate between blue and green during printing if set to flash in the advanced setting. – You can turn this off! (See Section 3E -PC and 5D - Mac)

## 6H Technical Support.

If you have difficulties operating your Printer, contact technical support using one of the methods listed below.

Source	Location
Primera Knowledge Base	<a href="http://www.primera.com/kb">www.primera.com/kb</a>
Email Support	<a href="http://www.primera.com/customer-support">www.primera.com/customer-support</a>
Phone Support	<b>763-475-6669</b> (Mon - Fri 7 a.m. - 10 p.m CST and Saturday 11 a.m. – 8 p.m.)
Chat	<a href="http://www.primera.com">www.primera.com</a> – see chat icon in lower right corner (Mon - Fri 7 a.m. - 10 p.m CST and Saturday 12 noon – 9 p.m.)

## Section 7: Technical Specifications

<b>PRINT SPEED</b>	5-6 cookies per minute, varies by size and print
<b>PRINT RESOLUTION</b>	Up to 4800 x 1200 dpi
<b>PRINT TECHNOLOGY</b>	Thermal Inkjet
<b>INK TYPES</b>	Edible Ink
<b>STANDARD CONNECTIVITY</b>	USB 2.0 (USB 3.0 compatible)
<b>Max Print Width</b>	See Section 2A
<b>Min Print Width</b>	See Section 2A
<b>Min/Max Print item Width</b>	See Section 2A
<b>Maximum Print item Width</b>	See Section 2A
<b>Standard Sizes</b>	1", 3", 3.5", 4", 4.5"
<b>Minimum Thickness:</b>	.08" (2mm)
<b>Maximum Thickness</b>	1" thickness for 1.5" max diameter objects such as Macarons. For all other sizes, .75" (20mm) is max
<b>Operating System</b>	Windows 7, 8 or 10 Mac OS 10.11 +
<b>DIMENSIONS</b> <ul style="list-style-type: none"> <li>• Printer</li> <li>• Carousel</li> <li>• Total Assembled</li> </ul>	12.47" (317mm) W x 7.12" (181mm) H x 14.78" (375mm) L 16" (406mm) W x 2.77" (70.3mm) H 16" (406mm) W x 7.12" (181mm) H x 30" (762mm) L
<b>WEIGHT</b>	24.9 Lbs (11.3 kg)
<b>POWER</b>	Input: 100 – 240 VAC, 50/60 Hz, 36 watts, Output: 12 volt 3amp Model : PT-E763-001 SKU 074110
<b>WARRANTY</b>	One-year parts and labor; lifetime phone, chat and email support
<b>Operating Temperature</b>	50 to 95° F (10 to 35° C)
<b>Recommended Operating Temperature</b>	61 to 87° F (16 to 32° C)
<b>Storage Temperature</b>	-4 to 140° F (-20 to 60° C)
<b>Operating Humidity</b>	10 to 60% RH (non-condensing)
<b>Storage Humidity</b>	10 to 80% RH (non-condensing)
<b>REPLACEMENT INK CARTRIDGES</b>	Edible Ink SKU -53498
<b>Filter Pack</b>	SKU 740123
<b>Certifications</b>	See the following page

## Certifications

### Food Equipment:

NSF/ANSI STANDARD 18 MANUAL FOOD AND BEVERAGE DISPENSING EQUIPMENT

Safety NA/USA/Canada:

UL 763 STANDARD FOR MOTOR-OPERATED COMMERCIAL FOOD PREPARING MACHINES -

Edition 5 - Issue Date 2018/02/28

CSA C22.2 NO. 195-16 MOTOR-OPERATED FOOD PROCESSING APPLIANCES (HOUSEHOLD AND COMMERCIAL) - Edition 2 - Issue Date 2016/06/01

### Safety Europe:

IEC 60335-2-64 HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES -- SAFETY. PT. 2-64, PARTICULAR REQUIREMENTS FOR COMMERCIAL ELECTRIC KITCHEN MACHINES - Edition 3.2 Issue Date 06/2017

IEC 60335-1 HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES -- SAFETY. PT. 1, GENERAL REQUIREMENTS - Edition 5, Amendment 2 - Revision Date 05/2016

CENELEC EN 60335-1 HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES SAFETY PART 1: GENERAL REQUIREMENTS - Amendment A2 - Revision Date 2019

**EMC:** Class A

### FCC:

*NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.*

## Section 8: Recipes

Recipe for Printable Iced Sugar Cookies

Milad Audi, 12/20/2019

### **Sugar Cookies**

*The key to making these cookies is to use cold butter, no leavening, and add cornstarch to the dough.*

*This will result in cookies that do not spread or rise during baking. It is crucial that the dough is rolled out perfectly flat (use rolling pin rings) and cut out carefully so that the finished cookies will have a flat surface for printing.*

- 1 cup (2 sticks) cold unsalted butter, cubed
- 1 cup granulated sugar
- 2 large eggs
- 2 tsp. vanilla and/or almond extract
- 3 ½ cups all-purpose flour
- ½ cup cornstarch
- ¾ tsp. salt

Step 1: Preheat oven to 375°

Step 2: Cream the butter and sugar until combined and mostly smooth.

Step 3: Mix in eggs and vanilla extract until incorporated.

Step 4: Add the flour, cornstarch, and salt. Mix on low speed for 3-5 minutes until it becomes a workable dough, it should gather itself into a ball and pull away cleanly from the sides of the bowl.

Step 5: Roll the dough on parchment paper to ¼ in thick using rolling pin rings to get a consistent thickness. Use a round cookie cutter to cut into desired size circles (recommended 3.2 in). Keep the remaining dough in the refrigerator until you are ready to use it.

Step 6: Bake at 375° for 9-11 minutes on a rack in the middle of the oven. Be careful not to over bake because the dough will dry out quickly.

Step 7: Let cool completely on the cookie sheets or remove to a cooling rack. Flood with royal icing, see recipe below.

## Royal Icing

*The key to making this icing is adding meringue powder to get an icing that will harden well and have a little air in it to absorb ink. It is crucial to get the consistency right so that the icing will flood well and give a smooth and flat surface for printing, but not so thin that it takes too long to dry.*

- 3 Tbsp. meringue powder
- $\frac{3}{8}$  cup warm water
- 3  $\frac{3}{4}$  cup confectioner's sugar, sifted
- 1  $\frac{1}{2}$  tsp. vanilla or almond extract

Step 1: Combine meringue powder and warm water in a bowl. Wisk for 2-3 minutes until the mixture is frothy.

Step 2: Add confectioner's sugar and mix for about 2 minutes until the icing is smooth. Add vanilla or other flavoring and mix well.

Step 3: Add additional warm water or confectioner's sugar in small increments to achieve the desired consistency for flooding the cookies. Adding water will make the icing thinner, adding sugar will make it thicker. Add enough water that the cookies will flood with a smooth surface, but not so much that the icing takes too long to harden completely.

Step 4: Use a piping bag to flood the cookies. Start by outlining the cookie and then fill in the middle. Make sure the surface is smooth and completely filled. Let them sit out until the icing is completely hardened. Do not store in a package that allows moisture build-up (like sealed plastic bags) as it could damage the smooth hardened surface of the frosting.