

QUICK LABEL SYSTEMS

The Labels You Want When You Need Them®

The Kiaro! 200

USER GUIDE



Congratulations on owning a Kiaro! 200 inkjet color label printer. This User Guide will help you start printing labels, re-load printing supplies, troubleshoot problems, and perform routine maintenance.

- **Create Custom Labels 4"-8" wide**
- **Print 1200 dpi at 8" per second**
- **No wasting labels**

Find us on:



QuickLabel.com

Part Number: 22834630-EN-E
Revision 1.3

Kiario! 200 User Guide

Part Number 22834630-EN-E
Revision 1.3
2/2015

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an Astro-Med, Inc. Product Group

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Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

Kiario! 200 Limited Warranty

QuickLabel Systems, An Astro-Med Inc. Product Group, warrants all components of this product, except wear parts and consumables, against defects in materials or workmanship for a period of one (1) year from the date of original purchase. Wear parts include the purge units, blade cleaners, maintenance cartridge, cutter blades and the like. Consumables include ink cartridges and labels, which are covered under a separate warranty. If the customer discovers a defect, this defect must be reported promptly to QuickLabel Systems. QuickLabel Systems will, at its option, repair the printer or repair or replace its defective component(s) at no additional charge under our QuickSwap™ Parts Service. Repair parts and replacement parts will be furnished on an exchange basis and will be either reconditioned or new. The customer is responsible for freight to return the printer or component to our factory. We will ship the repaired or replaced printer or component back to you via standard ground freight service. All replaced parts become the property of QuickLabel Systems. Travel, freight and other expenses related to warranty repairs are not covered.

In the first year of product ownership, you may be covered by a separate Customer Support Agreement purchased from or issued by QuickLabel or an authorized QuickLabel dealer. In such a case, you would be entitled to an on-site installation and/or training visit. Otherwise, Customer Support Agreements and renewals are available for purchase and provide on-site support and/or QuickSwap Parts Service.

This warranty is void if the product has been damaged by accident, abuse, neglect or misapplication or by the use of incompatible consumables or parts, or if the product has been improperly installed, or if the product has been modified without the express written permission of QuickLabel Systems. QuickLabel is not responsible for products lost or damaged in transit.

QuickLabel makes no warranty, either express or implied, with respect to this product's merchantability or fitness for a particular purpose. In no event shall QuickLabel be held liable for any direct, indirect, special, incidental, or consequential damages, whether based on a contract, tort, or any other legal theory and whether advised of the possibility of such damages.

Ink Limited Warranty

This warranty covers QuickLabel Kiaro! 200 ink cartridge sold by QuickLabel Systems.

Each Kiaro! 200 ink cartridge is warranted to be free from defects in materials and workmanship for up to 24 months from the date of manufacture if in original unopened packaging, or up to 6 months after installation, whichever occurs first. This warranty applies only to the ink cartridges as used in the QuickLabel Kiaro! 200 printing system.

If the customer suspects a defect in a Kiaro! 200 ink cartridge, the customer must notify QuickLabel within the warranty period. Upon return of the ink cartridge to the QuickLabel factory and QuickLabel's verification of the defect, QuickLabel will, at its option, either:

1. Replace the defective ink cartridge; or,
2. If the customer has used the ink, pro-rate the price of a new ink based upon the estimated life remaining for the ink, as reported by the Kiaro! 200 system. The Kiaro! 200 provides the estimated life remaining, and QuickLabel may obtain this information from the system remotely or request the customer to furnish this information.

This warranty does not cover Kiaro! 200 ink cartridges that have been emptied, refilled, remanufactured, modified, refurbished, misused, or tampered with, or that have expired, or when used to print on label or tag media that is not compatible with the Kiaro! 200.

This warranty is void if the Kiaro! 200 ink cartridge has been damaged by accident, abuse, neglect or misapplication, if the product has been improperly installed or maintained, if the product has been used outside of its environmental specifications, or if the product has been modified without the express written permission of QuickLabel.

QuickLabel makes no warranty, either express or implied, with respect to this product's merchantability or fitness for a particular purpose. In no event shall QuickLabel be held liable for any direct, indirect, special, incidental, or consequential damages, whether based on a contract, tort, or any other legal theory and whether advised of the possibility of such damages.

Printhead Limited Warranty

QuickLabel Systems warrants the printheads from the date of purchase for a period of 90 days or for 1 million inches of printing, whichever comes first, contingent upon the use of QuickLabel ink and labels. The Kiaro! 200 printheads are calibrated for use with QuickLabel ink and labels and performs optimally only when used with these materials. This specific printhead warranty does not apply to printheads damaged by accident, abuse, neglect, misapplication or the like. This warranty is void if the product has been damaged by accident, abuse, neglect or misapplication, or if the product has been improperly installed, or if the product has been modified without the express written permission of QuickLabel Systems.

ICC Profile

ICC Profile Powered by X-Rite Incorporated

Obtaining Service

To obtain warranted service, please contact QuickLabel Technical Support through one of the Factory Sales and Service Centers.

Contact Information for Factory Sales and Service

QuickLabel USA and World Headquarters

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Toll Free Technical Support: (877) 757-7310
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Technical Support E-mail: support@QuickLabel.com

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Tel: 01628 668836
Fax: 01628 664994
Web Site: www.QuickLabel.co.uk
Sales E-mail: info@QuickLabel.co.uk
Technical Support E-mail: support@QuickLabel.co.uk

Ownership Information

Congratulations and thank you for your business. Your purchase of a QuickLabel digital label printer is an investment in production flexibility and packaging efficiency. Please record the model number and serial number of your product.

FCC Part 15 Compliance

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 interference in an industrial installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canadian Compliance Statement

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

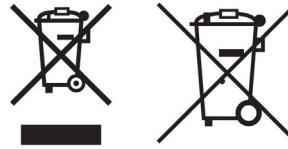
Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

RoHS2 Compliance

The Kiaro! 200 Label Printer and optional Rewinder accessory do not contain substances specified within ANNEX II of "Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)", that is, lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE) exceeding their specified maximum concentration values tolerated by weight in homogeneous materials, except for the exemptions set in ANNEX III of the Directive and amendments.

This information is offered in good faith to the best of our knowledge, but is subject to revision as new information becomes available.

WEEE Directive



European Union (and EEA) only.

These symbols indicate that this product is not to be disposed of with your household waste, according to the WEEE Directive (2002/96/EC), the Battery Directive (2006/66/EC) and/or your national laws implementing those Directives.

If a chemical symbol is printed beneath the symbol shown above, in accordance with the Battery Directive, this indicates that a heavy metal (Hg = Mercury, Cd = Cadmium, Pb = Lead) is present in this battery or accumulator at a concentration above an applicable threshold specified in the Battery Directive.

This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (EEE) and batteries and accumulators. Improper handling of this type of waste could have a possible impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE.

Your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources.

For more information about the recycling of this product, please contact your local city office, waste authority, approved scheme or your household waste disposal service.

(EEA: Norway, Iceland and Liechtenstein)

WEEE Compliance - India only

This product is not to be disposed of with your household waste, according to the e-waste (Management and Handling) Rules, 2011. This product should be handed over to a designated collection point, e.g., to an authorized collection site for recycling waste electrical and electronic equipment (EEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information regarding return and recycling of WEEE products, please contact QuickLabel Systems.

Also, this product complies with the "India E-waste Rule 2011" and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 % by weight and 0.01 % by weight for Cadmium, except for the exemptions set in Schedule II of the Rule.



Battery - For CA, USA only

Included battery contains Perchlorate Material ---- special handling may apply.

See <http://www.dtsc.ca.gov/hazardouswaste/perchlorate> for detail.

European Union (and EEA) only

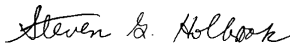
Contains a preservative to control microbial deterioration.

Contains 1,2-benzisothiazol-3(2H)-one.

May produce an allergic reaction.

Contains less than 30% of components with unknown hazards to the aquatic environment.

Safety data sheet available on request.

Declaration of Conformity Declaration de Conformité Übereinstimmungserklärung Dichiarazione di Conformità	
ID	DoC-22834630
Manufacturer's name and address Nom et adresse du fabricant Hersteller Nome del costruttore	Astro-Med, Inc. 600 East Greenwich Avenue West Warwick, RI 02893 USA
Model No. Modèle No. Model Nr. Modello No.	Kiaro! 200 & Kiaro! 200E Kiaro! 200 & Kiaro! 200E with Rewinder Kiaro! 200D & Kiaro! 200D with Rewinder
Standards to which conformity is declared Standards auquel la conformité appartient Normen für welche Übereinstimmung erklärt wird Norme per le quali si dichiara la conformità	ANSI/UL 60950-1, Issued: 2007/03/27 Ed: 2 Rev: 2011/12/19 UL Standard for Safety for Information Technology Equipment Safety Part 1: General Requirements CSA C22.2 No. 60950-1 Issued: 2007/03/27 Ed: 2 (R2012) Information Technology Equipment Safety Part 1: General Requirements; Amendment 1: 2011 CISPR 22 ed 6.0 (2008-09) FCC Part 15 Subpart B: 2013 "Class A" ICES-003 Issue 5 August 2012 IEC 61000-3-2 ed 3.2 (2009-04-20) IEC 61000-3-3 ed 3.0 (2013-05-14) IEC 61000-4-2:2008 IEC 61000-4-3:2006 +A1:2007 +A2:2010 IEC 61000-4-4:2004 IEC 61000-4-5:2005 IEC 61000-4-6:2008 IEC 61000-4-8:2009 IEC 61000-4-11:2004
Application of Council Directives Application des Décisions du Conseil Anwendbar für die Richtlinien Applicazione delle Direttive del Comitato	2004/108/EC 2006/95/EC
I, the undersigned, hereby declare that the equipment specified above conforms to the above Directive and Standard. Je, Soussigné, déclare que l'équipement spécifié ci-dessus est en conformité avec la directive et le standard ci-dessus. Ich, der unterzeichnende erkläre hiermit, daß das oben beschriebene Gerät den vorgenannten Richtlinien und Normen entspricht. Il sottoscritto dichiara che l'apparecchio sopra specificato è conforme alle Direttive e Norme sopra specificate.	
Steven Holbrook Quality Assurance Manager Astro-Med, Inc.	 Date of issue: <u>2/5/2015</u> Place of issue: <u>West Warwick, RI</u>
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Note: The Kiaro! 200D is identical to the Kiaro! 200E except for the ink type used. Kiaro! 200D uses a pigment based aqueous ink while the Kiaro! 200 & Kiaro! 200E uses a dye based ink.

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Before Installing the Printer

Choosing an Installation Location

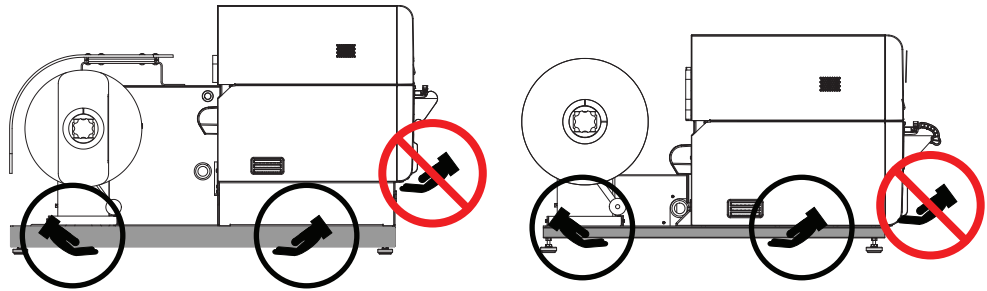
The installation environment must be as described in this section.

- The printer power cord must be able to connect to an outlet (100-240 VAC 50-60 Hz 3.5A). This outlet must be easily accessible.
- Avoid installing the printer near a faucet, water heater, humidifier, or refrigerator.
- Ensure the environment temperature is within 59 to 86 degrees Fahrenheit (15 to 30 degrees Celsius).
- Ensure the environment humidity is within 10% to 90% relative humidity.
- Avoid installing printer near fire, in a dusty place, or in a place where ammonia gas is generated. When installing printer in a place exposed to direct sunlight, it is recommended that curtains be hung over the window.
- No printer feet should float. The printer must be held level constantly.
- When placing the printer on a desk, table, or other similar surface, it must be sturdy and stable enough to support the weight of the printer.
- The room must be properly ventilated.
- Install printer at least 3.5 inches (88.9 mm) away from each wall with a sufficient work space around it.

Installation Precautions

When installing the printer, observe the following precautions.

- Imaging faults can result from dew condensation that occurs when the printer is moved from a cold place to a warm place. Leave the unpacked printer as is for at least two hours before installing it.
- The printer can weigh up to 170 pounds (77 kilograms). Three persons are required to lift the printer. Lift only by the black frame on the bottom of the printer. Do not grasp any other part of the printer to lift it. Do not lift the unit by the print engine. Attempting to lift the printer in an improper position can result in fall of the printer or injury.



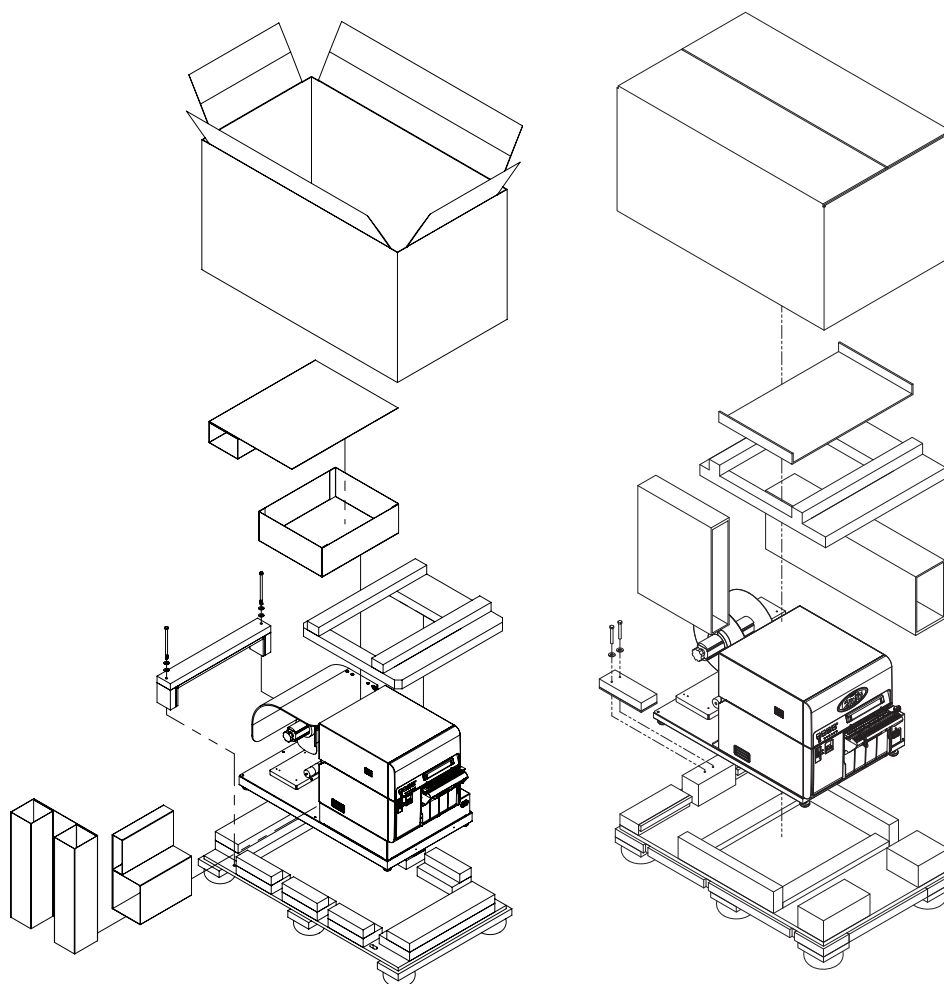
System Requirements

- 32-bit or 64-bit Microsoft® Windows® XP, Windows Vista®, Windows 7, or Windows 8
- Microsoft .NET Framework 3.5 SP1
- 350 MB free hard drive space
- CD/DVD drive
- One available USB 2.0 port for USB installation *or* network connectivity for network installation

Unpacking the Printer

The printer is secured using cushioning materials to protect it against vibrations and shock during transportation. Use the following procedure to unpack the printer. Keep the packing materials for future transportation.

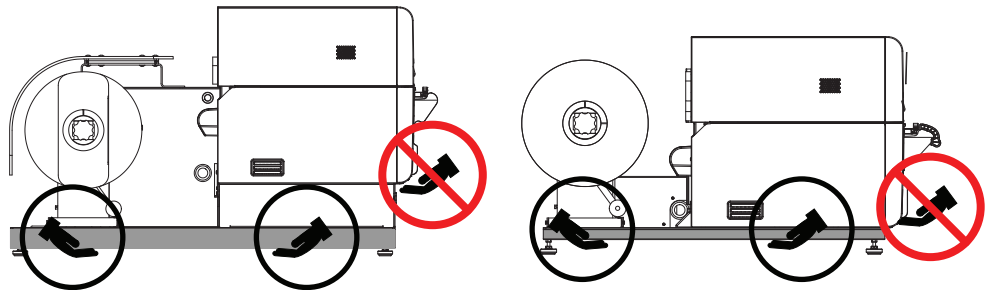
- 1 Remove the cardboard box and other shipping materials from the pallet.



Note: The printer model on the left has the roll cover. The printer model on the right does not have the roll cover.

- 2 Use a wrench to remove the two 9/16" bolts from the bracket that secures the printer to the pallet. Remove the bracket.

- 3 Holding the black frame at the bottom of the printer, lift the printer to take it out from the pallet base. Lift from the illustrated points. Do not hold the front side of the printer.



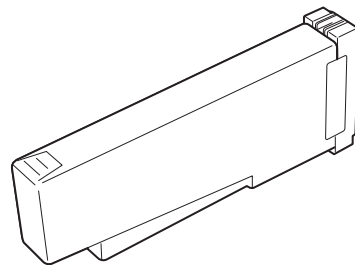
Note: The printer can weigh up to 170 pounds (77 kilograms). Three persons are required to lift the printer. Lift only by the black frame on the bottom of the printer. Do not grasp any other part of the printer to lift it. Do not lift the unit by the print engine. Attempting to lift the printer in an improper position can result in fall of the printer or injury.

- 4 Place the printer on a horizontal table. Then remove all pieces of packing tape and cushioning materials visible on the exterior of the printer.
- 5 If necessary, you can rotate the feet on the bottom of the frame to adjust the height of each corner. Use these adjustments to keep the printer level.

Checking the Included Parts

Check to make sure the following items are included with the printer.

- Starter ink tanks (one for each color)

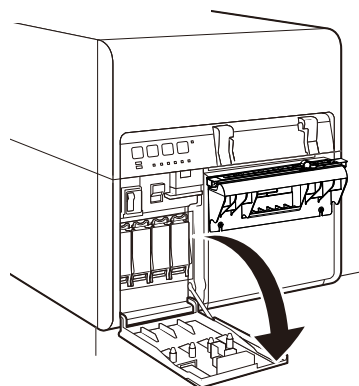


- Starter roll of labels
- AC power cable
- USB cable
- Quick Start Guide
- Installation CD

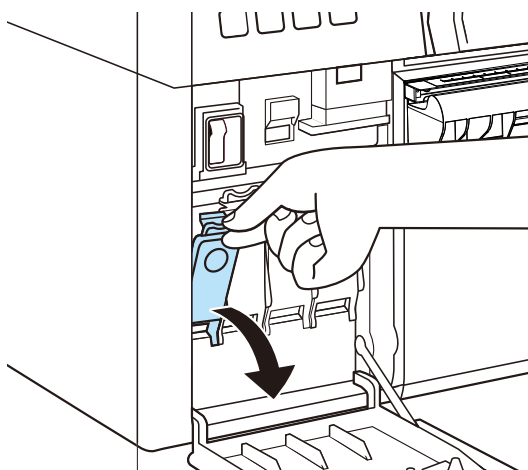
Installing the Printer

Loading Ink Tanks

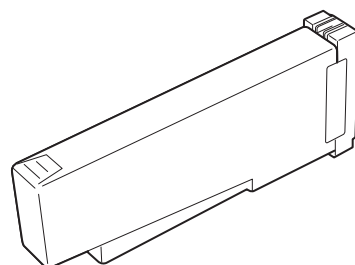
- 1 Open the ink tank door.



- 2 Open the ink tank lever for each color while pushing it downward.



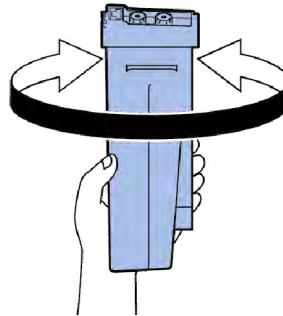
- 3 Take out the ink tanks from the package. Then remove the packing materials.



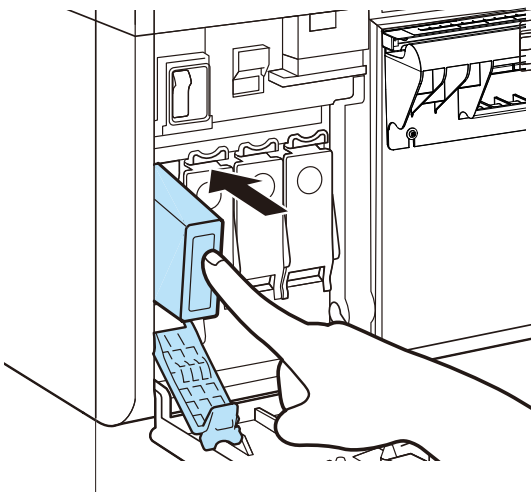
Do not touch the ink outlet and terminal to prevent soiling of the surrounding work area, damage to the ink tank, and poor printing. Never drop or apply excessive force to an ink tank.

- 4 If you are using the Kiaro! 200D printer, rotate the ink tank to stir the ink.

Note: This step applies only to the Kiaro! 200D ink. If you are using the standard Kiaro! 200, skip this step.



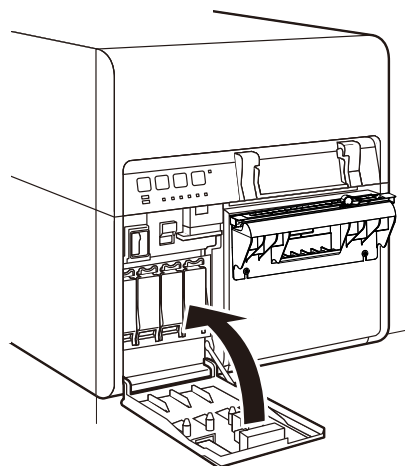
- 5 Slowly insert the ink tank as far as it will go, and then close the ink tank lever.



Caution: There are sharp pins in the ink tank slot. Never put your fingers in this area.

Note: The printer is designed so that ink tanks cannot be inserted in wrong ink tank slots. Do not attempt to insert ink tanks in wrong ink tank slots forcibly.

- 6 After loading all ink tanks, close the ink tank door.



Initial Ink Filling

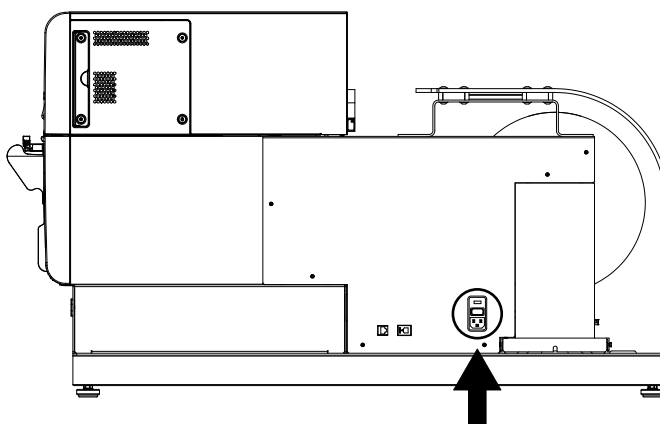
Caution: Do not turn the power off during ink loading.

Caution: If the power is turned off during ink loading, the printer stops ink loading. In such a case, turn on the power to start ink loading again.

Caution: Restarting the ink loading causes extra ink waste.

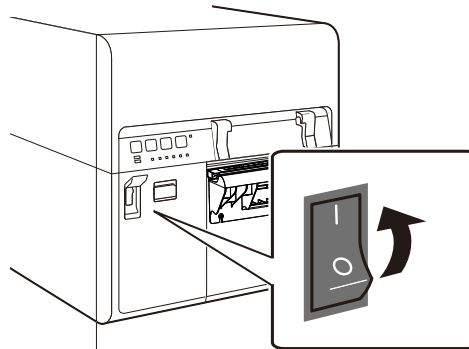
- 1 Connect the power cord to the printer. Use the power cord appropriate for the power supply used at the installation site.

Caution: Never use a wrong power cord.



- 2 Connect the power cord to the outlet.
- 3 Turn on the main power switch. This switch is located directly above where the power cord connects to the unit.

- 4 Turn on the printer power switch. Initial ink filling starts automatically when the power is turned on.



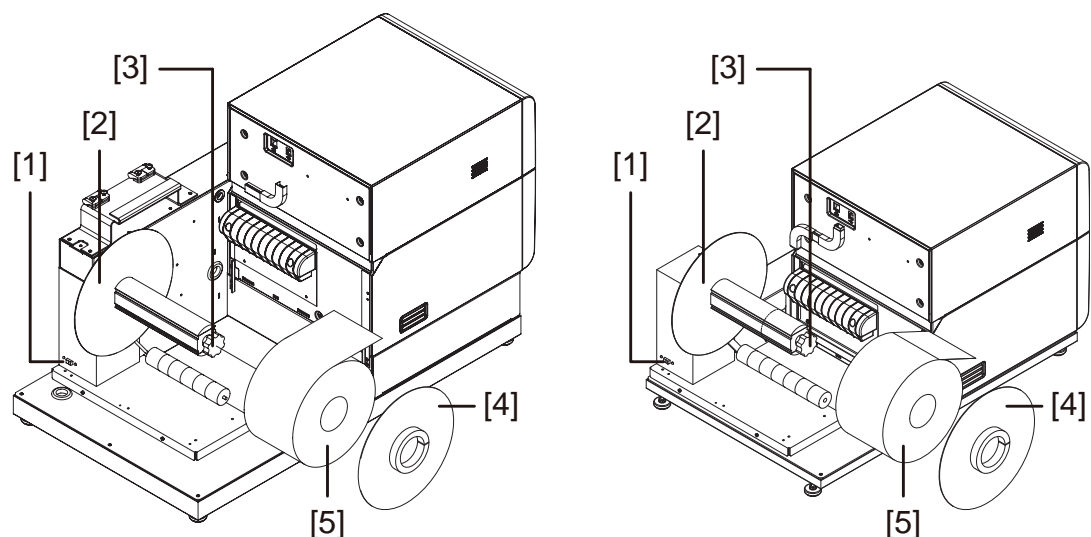
When ink loading is complete, the STATUS LED changes from flashing to lit and a beep sounds.

Note: Initial ink loading takes about 30 minutes.

Loading Media

Some steps for loading media will differ slightly depending on the Kiaro! 200 model you are using. You can identify the Kiaro! 200 model based on whether it has a roll cover over the supply mandrel area.

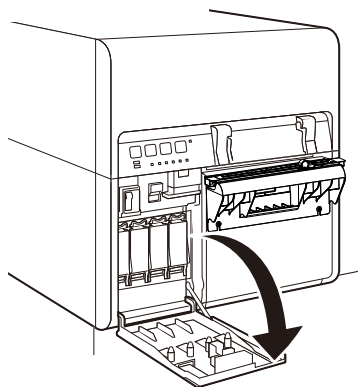
- 1 If your printer model has a roll cover, open it.
- 2 Ensure the power switch [1] on the supply mandrel is in the off position.



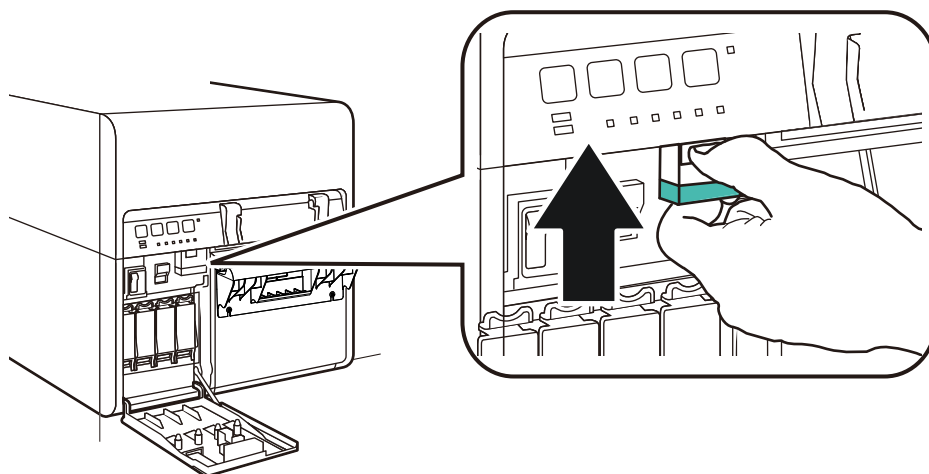
Note: The printer model on the left has the roll cover (not illustrated). The printer model on the right does not have the roll cover.

Caution: Do not turn the supply mandrel by hand to advance the media. Turning the mandrel by hand can result in printer damage.

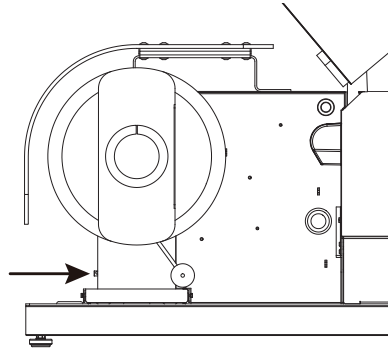
- 3 Turn the mandrel adjustment knob [3] counterclockwise to loosen the mandrel.
- 4 Remove the outer flange [4] from the mandrel.
- 5 Orient a roll of label media [5] as illustrated and seat it on the mandrel. Ensure the side of the roll contacts the inner flange [2].
- 6 Reinstall the outer flange [4]. Refer to the information below to determine whether to tighten the mandrel.
 - If your printer model has a roll cover, turn the mandrel adjustment knob [3] clockwise to tighten the mandrel.
 - If your printer model does not have a roll cover, do not tighten the mandrel at this time.
- 7 Open the ink tank door.



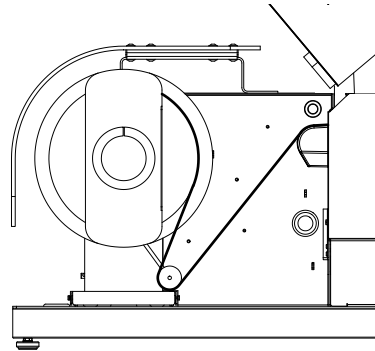
- 8 Push the upper unit release lever up to open the upper unit.



- 9 Turn the power switch on the supply mandrel to the on position.

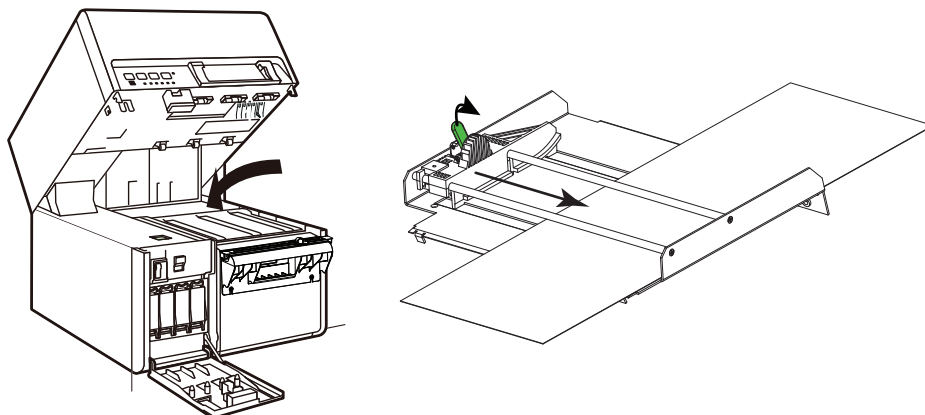


- 10 Feed the media under the dancer arm and up into the entry slot on the rear of the printer. The media path is illustrated below.



- If your printer model has a roll cover, the mandrel will unwind and feed media as the dancer arm is lifted. Do not turn the supply mandrel by hand to advance the media.
- If your printer model does not have a roll cover, ensure the mandrel is not tightened at this time. The media roll should rotate freely on the mandrel during this process.

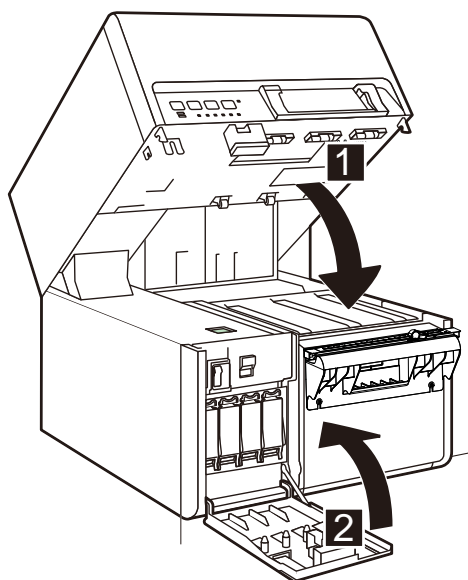
- 11 Adjust the input guide inside the upper unit. Press the green lever and slide the guide just before it contacts the media. Then release the green lever.



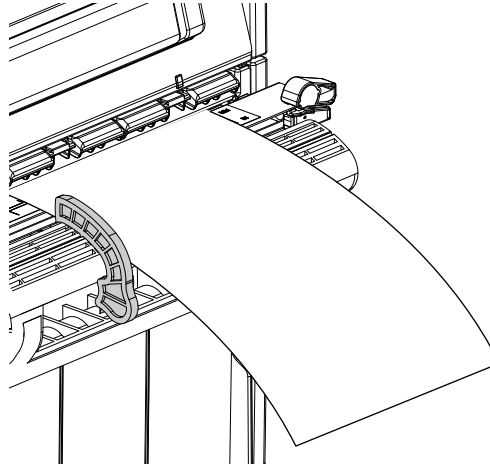
Label media should be able to move smoothly without being hindered by the input guide.

Note: The guide should be positioned to just touch the edge of the liner and not cause exposed liner to curl on either side.

- 12 Pull the media until it advances slightly past the manual cutter.
- 13 If your printer model does not have a roll cover, turn the mandrel adjustment knob [3] clockwise to tighten the mandrel.
- 14 Close the upper unit and then close the ink tank door.



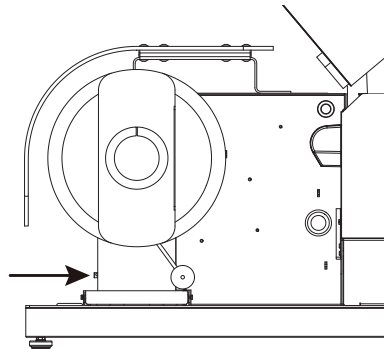
- 15** Position the media exit guide just before it contacts the media.



Label media should be able to move smoothly without being hindered by the exit guide.

Note: The guide should be positioned to just touch the edge of the liner and not cause exposed liner to curl.

- 16** If your printer model has a roll cover, close it.
- 17** Ensure the power switch on the supply mandrel is in the on position.



Verifying Label Width

When designing labels, ensure the width of your label design matches the width of the media you will be using. If your label file is wider than the media, the printer will attempt to print the full width of your label. In this situation, ink will be injected into the transport assembly and will require cleaning.

Use the ruler on the manual cutter to verify the width of your label media before printing.

Installing the Printer Driver (USB)

Use the following instructions to install the printer via USB 2.0 on Windows XP, Windows Vista, Windows 7, or Windows 8.

Note: When the Windows logo testing, publisher verification, or digital signing warning messages appear, choose to continue the installation. These messages indicate that the driver has not been “logo tested” by Microsoft. However, it has been tested thoroughly by QuickLabel Systems, and will not cause any of the problems listed in these messages.

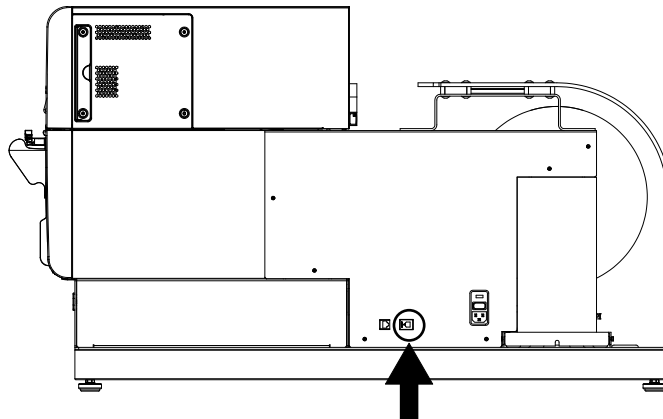
- 1 Ensure the Kiaro! 200 is powered on but **not** connected to your computer via the USB cable.
- 2 Power on your computer and insert the Kiaro! 200 Installer CD in the CD drive. The Installer CD wizard will open. Choose **Next**.

Note: If the autorun program does not start automatically, use Windows Explorer to launch the “Setup.exe” file located in the root level of the CD.

- 3 Use the driver installation wizard to install the driver. Refer to the following information during this process.
 - Choose the USB connection method when prompted.
 - Select an installation location for the Kiaro! 200 Maintenance Utility when prompted.

Choose Finish in the installation wizard after successfully installing the Kiaro! 200 Maintenance Utility and driver.

- 4 Connect the smaller end of the USB cable to the Kiaro! 200 USB type B port.



Connect the larger end of the USB cable to an available USB 2.0 port on your computer.

- 5 Once the USB connection is made, the Windows Found New Hardware Wizard will start. This wizard will guide you through the rest of the installation process. Refer to the following general guidelines when using this wizard.
- If you are prompted to connect to Windows Update to search for software, choose no.
 - Choose to install the software automatically when you are presented with this option.
 - If the Windows logo testing or publisher verification warning messages appear, choose to continue the installation.

Resolving Windows 7 and Windows 8 USB Installation Issues

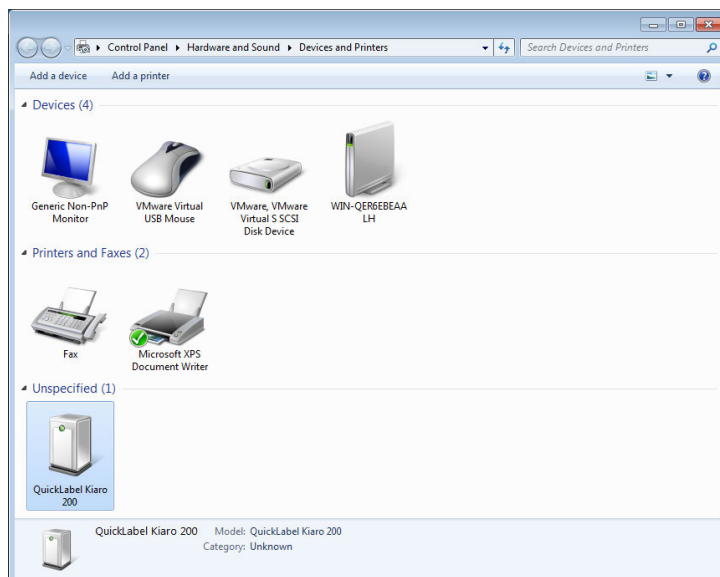
When you install the printer driver via USB, you first run the installation wizard on the Kiaro! 200 Installer CD and then connect the printer to your PC via the USB cable.

If you connected the USB cable before running the installation wizard on the Kiaro! 200 Installation CD, Windows 7 and Windows 8 will not recognize the printer correctly. In this case, the Kiaro! 200 will be listed as an Unspecified item in the Devices and Printers window.

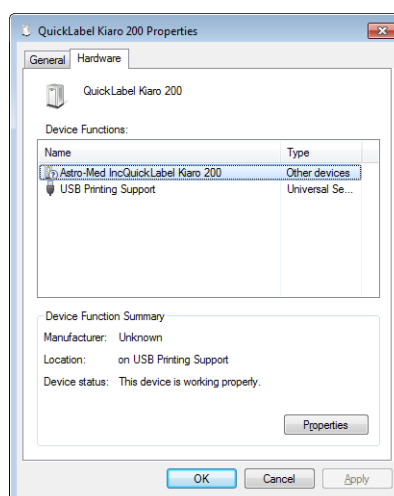
Use the following procedure to correct this issue. This procedure assumes you have already installed the printer driver via the Kiaro! 200 Installer CD.

Note: This procedure requires administrator level access in Windows.

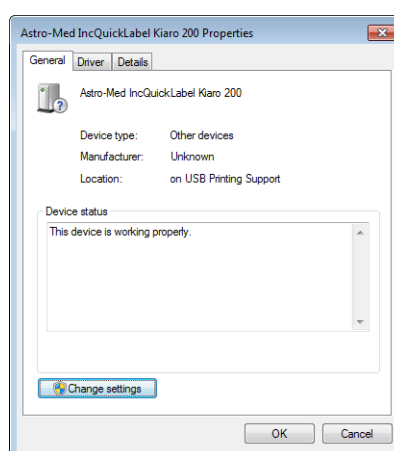
- 1 Open the Devices and Printers window in Windows 7 or Windows 8.



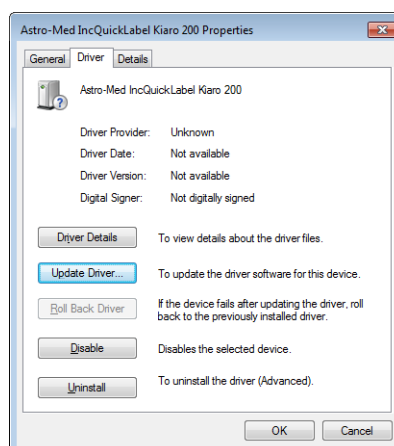
- 2 Right-click the QuickLabel Kiaro 200 in the Unspecified list. Then choose **Properties**. The QuickLabel Kiaro 200 Properties window will open. Choose the **Hardware** tab.



- 3 Select Astro-Med IncQuickLabel Kiaro 200 and choose **Properties**. The Properties window will open. Choose the **General** tab.



- 4 Choose **Change Settings**. Then choose the **Driver** tab.



- 5 Choose **Update Driver**. When you are prompted, select the **Search automatically for updated driver software** option. Windows will locate the driver on your system and create a printer item.

Installing the Printer Driver (Network)

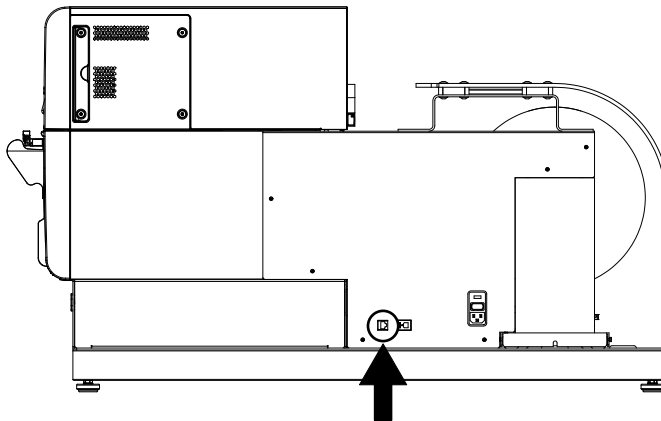
Use the following instructions to install the printer via a network connection on Windows XP, Windows Vista, Windows 7, or Windows 8.

For detailed information about the topic of networking, refer to documentation applicable to your network environment and/or contact your network administrator.

The printer uses the following ports: TCP 50000,50001,9100, UDP 50001,50002. The printer cannot be used on a network where other devices on the network use the same ports.

***Note:** When the Windows logo testing, publisher verification, or digital signing warning messages appear, choose to continue the installation. These messages indicate that the driver has not been “logo tested” by Microsoft. However, it has been tested thoroughly by QuickLabel Systems, and will not cause any of the problems listed in these messages.*

- 1 Ensure the printer is powered on and connected to the network via a LAN cable.



- 2 Power on your computer and insert the Kiaro! 200 Installer CD in the CD drive. The Installer CD wizard will open. Choose **Next**.

***Note:** If the autorun program does not start automatically, use Windows Explorer to launch the “Setup.exe” file located in the root level of the CD.*

- 3** Use the driver installation wizard to install the driver. Refer to the following information during this process.
- Choose the Ethernet connection method when prompted.
 - Allow the installer to access the network if prompted.
 - Choose the Kiaro! 200 printer in the printer list when prompted. Alternately, you can choose to find a specific printer by IP address or MAC address.
 - Configure the printer for DHCP or a static IP address.

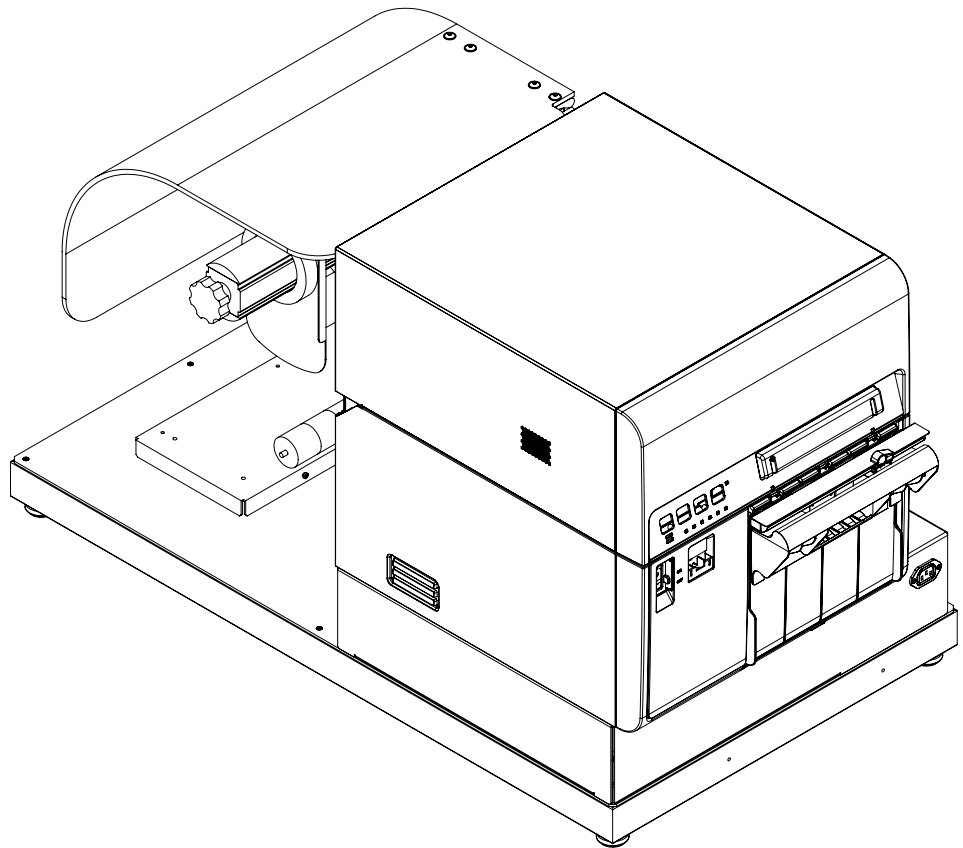
Ensure the printer has been in the “Ready” state for at least 30 seconds before attempting to connect via DHCP or static IP address. Additionally, if you change the selection from static IP address to DHCP, wait at least 30 seconds before proceeding to allow the printer to establish DHCP communication.

- Select an installation location for the Kiaro! 200 Maintenance Utility when prompted.

Choose Finish in the installation wizard after successfully installing the Kiaro! 200 Maintenance Utility and driver.

About the Kiaro! 200

The Kiaro! 200 is a ground-breaking inkjet color label printer that combines excellent print quality with high-speed label printing and low cost of ownership. When you use a Kiaro! 200 to print your own labels, you can cut label costs and add more flexibility to your product packaging.



The Kiaro! 200 digital color label printer was developed especially for manufacturers and processors who want to make fantastic-looking labels at high speeds (think 7,600 labels per hour for labels 8 inches/203.2mm long). The Kiaro! 200 color label printer instantly prints professional-quality labels at an attractive cost-per-label.

Where the Kiaro! 200 stands apart from other inkjet label printers is that it doesn't require a speed/quality trade-off. The Kiaro! 200 prints labels in high resolution faster than any other tabletop color label printer. Even at 8 ips output speed, you will get great looking, colorful, vibrant labels in an outstanding resolution of 1200 dpi. In fact, even when you engage the ink-saving Economy mode, you'll still print beautiful labels in 1200 dpi.

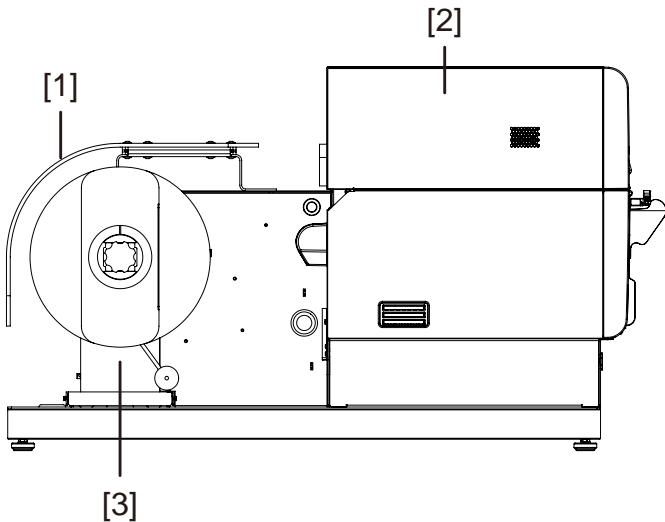
The compact size of the Kiaro! 200 label printer makes it the perfect fit for a tabletop or work bench, easy to add to any production line or packaging room operation. The Kiaro! 200 comes included with Custom QuickLabel® Omni labeling software to help

you layout your labels, add barcodes, and manage multiple label print jobs. You also have the option to print labels directly from graphic design programs like Adobe® Photoshop® and Illustrator®.

To get started printing labels, contact your QuickLabel Media Specialist to stock up on blank labels and Kiaro! 200 inks.

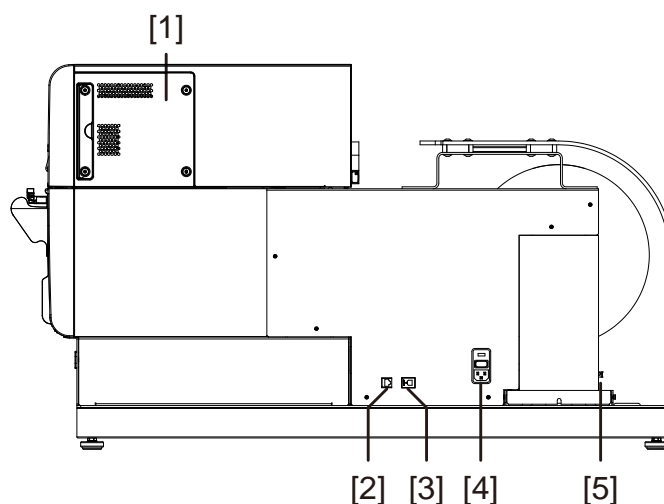
Printer Part Names and Functions

Kiaro! 200 Left Side View



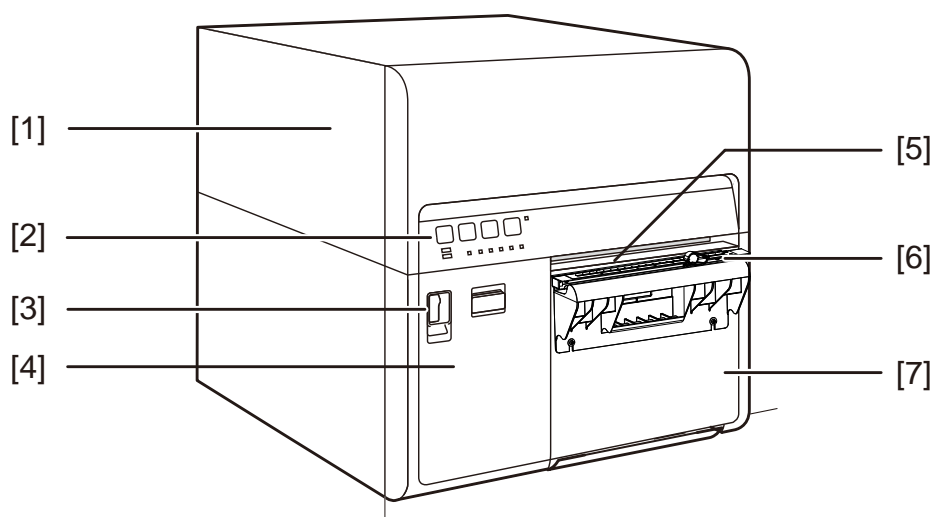
#	Part	Description
1	Roll Cover	The roll cover is installed on some printer models. The roll cover protects the media supply from dust and debris.
2	Printer	The printer receives media and prints labels.
3	Media Supply	Label rolls are installed on the media supply mandrel and media is fed into the printer at a consistent speed.

Kiario! 200 Right Side View



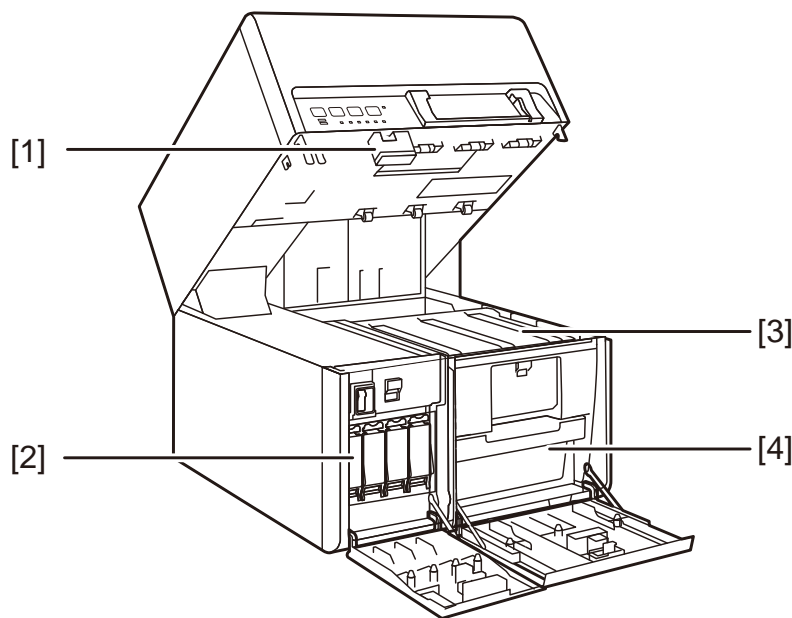
#	Part	Description
1	Maintenance Cover	Open this cover when replacing items from print modules.
2	LAN Port	Connect a LAN cable here to connect to the computer.
3	USB Port	Connect a USB cable here to connect to the computer.
4	Power Connector and Main Power Switch	Connect the power cord here. The main power switch for all Kiario! 200 components is located directly above where the power cord connects to the unit.
5	Media Supply Power Switch	Use this switch to turn the media supply power on/off.

Printer Details



#	Part	Description
1	Upper Unit	Open this unit when loading media, removing media jams in the feed path, or cleaning inside the machine. This unit includes print modules, circuit boards, and other internal components.
2	Operation Panel	Keys necessary for operation and LEDs to indicate the state of the printer are provided on this panel.
3	Power Switch	Use this switch when the printer is scheduled to be unused for a long period of time or when relocating the printer.
4	Ink Tank Door	Open this door when replacing ink tanks.
5	Media Delivery Slot	Media is ejected through this slot.
6	Manual Cutter	Use the manual cutter to cut printed labels.
7	Maintenance Cartridge Door	Open this door when replacing the maintenance cartridge.

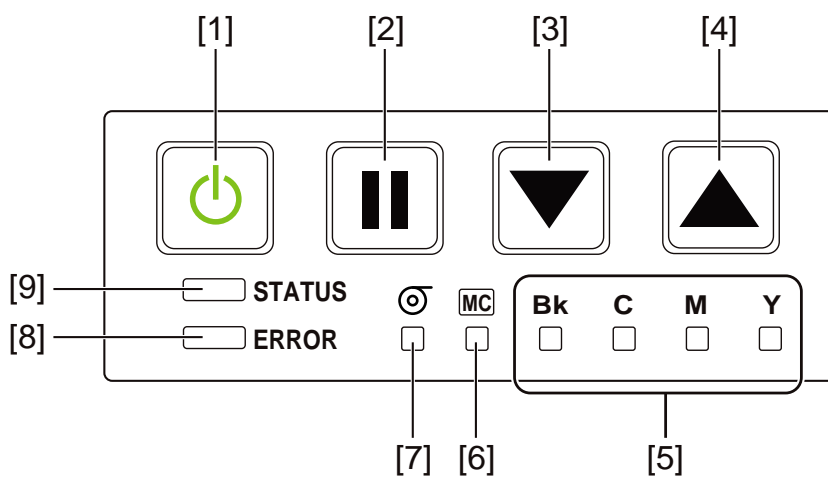
Inside the Printer



#	Part	Description
1	Upper Unit Release Lever	Push this lever up to release the upper unit.

#	Part	Description
2	Ink Tanks	Black (Bk), cyan (C), magenta (M), and yellow (Y) ink tanks are loaded.
3	Transport Unit	The transport unit feeds label media.
4	Maintenance Cartridge	Ink used to clean the print head is collected here.

Operation Panel



#	Part	Description
1	Power Key/LED	<p>Pressing this key for longer than one second switches the printer to sleep mode. When the printer is in sleep mode, pressing this key returns the printer to online mode.</p> <ul style="list-style-type: none"> • <i>On</i> - Power is on. • <i>Blinking</i> - Sleep mode. • <i>Off</i> - Power is off.
2	PAUSE Key	<ul style="list-style-type: none"> • <i>Printing</i> - Pressing this key suspends printing. Pressing this key for about one second during printing cancels all jobs to abort printing. • <i>Paused</i> - Pressing this key restarts printing. Pressing this key for about one second during printing cancels all jobs to abort printing.
3	FEED Key	Pressing this key in the offline mode feeds media.
4	BACK FEED Key	Pressing this key feeds media one page backward. Pressing and holding this key feeds media backward continuously.

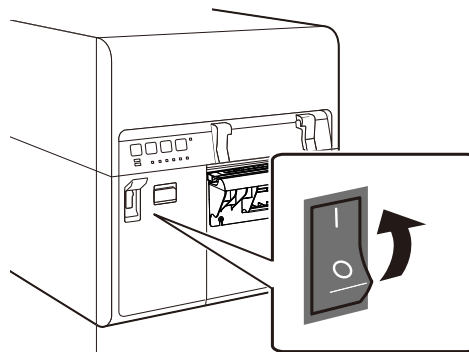
#	Part	Description
5	Ink Warning LEDs	<ul style="list-style-type: none"> • <i>On</i> - No ink or ink tank missing. • <i>Blinking</i> - Low ink. • <i>Off</i> - Sufficient ink.
6	Maintenance Cartridge Warning LED	<ul style="list-style-type: none"> • <i>On</i> - Full. • <i>Blinking</i> - Nearly full. • <i>Off</i> - Sufficient room to collect ink.
7	Media Out LED	<ul style="list-style-type: none"> • <i>On</i> - Media out. • <i>Off</i> - Media detected at media sensor.
8	ERROR LED	<ul style="list-style-type: none"> • <i>On</i> - Operator-call error (can be recovered by user operation). • <i>Blinking</i> - Fatal error. • <i>Off</i> - Normal.
9	STATUS LED	<ul style="list-style-type: none"> • <i>On</i> - Online mode. • <i>Blinking</i> - Data being received (printing, cleaning, initializing, shut-down). • <i>Off</i> - Offline mode (during cleaning, etc.).

Switching the Printer On and Off

Switching the Printer On

Make sure that the power cable is connected properly, and then turn on the printer.

- I Turn on the power switch.

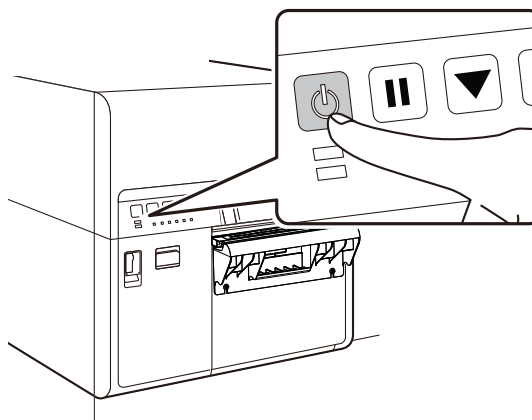


Cleaning is performed and the printer becomes ready for printing. When the printer is in the Online mode, the STATUS LED stays lit.

Note: When the printer is in sleep mode, press the power key to return the printer to online mode. The printer will also wake up from the sleep mode automatically as soon as it starts receiving a print job.

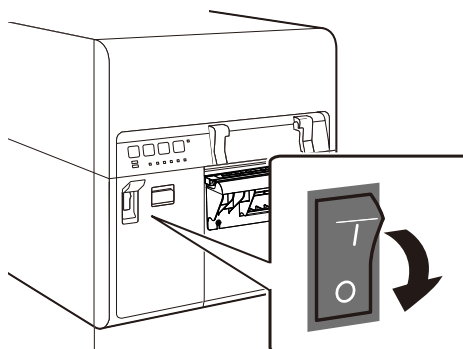
Switching the Printer Off

- 1 Press the power key for at least one second.



The Power LED will blink at long intervals, and then the printer will enter sleep mode.

- 2 Turn off the power switch. If the printer is already in sleep mode, just turn off the power switch.



Note: Never turn off the main power switch during a print job. This could cause damage because the printhead cannot return to the home position.

When the printer is not used for a long period of time:

- To prevent media from discoloring, remove it from the media supply. Store the removed media in a plastic bag or box such that it is not exposed to high temperature, high humidity, and direct sunlight.
- If the printer is to remain operational, it should be powered on to prime/clean the printheads every 8 weeks. If the printer is to be stored, it should be powered on to prime/clean the printheads every 2 weeks.

QuickLabel Services

Kiario! 200 Label Materials

QuickLabel develops Kiario! 200 label printing substrates. We sell cost-effective labels that meet various end-use requirements, including industry and government regulatory labeling standards.

QuickLabel BPO Blanket Purchase Order Program

As the manufacturer of the Kiario! 200 and the supplies, QuickLabel has the advantage of providing you with lower prices due to production efficiencies. QuickLabel's Kiario! 200 BPO Program covers all of your requirements for printing supplies over a 12-month period. You receive a discounted price for your annual commitment and regular scheduled deliveries based on your production requirements. Customers who take advantage of our BPO program receive maximum savings on all of their ink and blank label purchases!

Media Specialists

QuickLabel offers the services of our highly trained label experts to advise you on choosing the right label material and on designing label files for custom and special label shapes.

Your personal Media Specialist is available to:

- Provide a point of contact for ongoing development of label materials that may be required for unique labeling applications
- Advise you on expected usage so you can plan purchasing and manage your inventory levels
- Advise you on our convenient blanket orders, which automate shipment of your supplies to your location on dates you specify in advance
- Take your orders for labels and new label shapes
- Take your orders for printer supplies

QuickLabel Kiario! 200 Support

We provide factory-direct technical support for the Kiario! 200 label printer, including ongoing maintenance, training, troubleshooting, and repair consultations. This support service is a standard part of the One Year Warranty that comes with your Kiario! 200 purchase.

We offer additional support in the form of an optional Customer Support Agreement, which acts as an extended warranty for your Kiario! 200. The Customer Support Agreement provides for on-site visitation (as needed) and QuickSwap™ Repair and Replacement Service.

Customer Support Agreements include:

- **A Visit by a Service Technician** - You are entitled to receive a service visit to your facility. Upon your request, we will schedule a technician to come to your facility within 5 business days.

These service visits are your opportunity to receive additional training in printer operation and maintenance to your staff, to have questions addressed in-person, and to iron out any production issues you might encounter. To get the most out of each visit, we encourage you to prepare a list of topics you want to cover and share it with us in advance.

Additional repair visits are available for a fee and are subject to travel expenses.

- **QuickSwap™** - Under the QuickSwap™ Repair and Replacement Service, you receive replacement or repair of any faulty system parts, excluding those damaged by abuse or neglect, without cost.

Please note that the QuickSwap™ Service does not include printing supplies or wear parts. Discounted pricing on these items is available through the BPO Blanket Purchase Order Program.

- **Unlimited Telephone Support** - You receive free and unlimited technical support by telephone. We guarantee that when you call our technical support line, 877-757-7310 in the USA, (see Contact Information for Factory Sales and Service in the front of this manual for telephone numbers in other QuickLabel Systems locations), someone in our Technical Support Department will help you troubleshoot your problem or assist you in the use of your label printer.

For a Customer Support Agreement quotation, please contact QuickLabel Systems.

3

Designing and Printing Labels

Designing Labels

This section describes several factors you should consider before you start designing labels.

Choosing Design Software

You can print to the Kiaro! 200 using any design software with printing functionality. There are many graphic design software applications available, and the programs you choose will depend on your desired workflow and design requirements.

Design software is available from QuickLabel Systems and other software vendors.

- **Custom QuickLabel Omni from QuickLabel Systems** - This software product, developed by QuickLabel Systems, makes it easy to create barcodes and position text and graphics on a label.
- **Third Party Applications** - There are a variety of graphic design programs available from other software companies such as Adobe and Corel. Adobe Photoshop, Illustrator, and similar professional image editing programs provide advanced tools for creating your artwork.

A common scenario is to use a mixed approach to designing labels. For example, you may want to edit a photographic element in Photoshop, create a logo in Illustrator, and then place both into a Custom QuickLabel Omni file for final layout and printing.

Disabling Anti-aliasing

Most graphic design software applications provide anti-aliasing features that result in the appearance of smooth color transitions.

When designing labels that will be printed on the Kiaro! 200, do not use anti-aliasing. This is especially important if you are printing text or barcodes. For example, an anti-aliased barcode may not scan correctly due to the color transitions between lines.

Planning Full-Bleed and Non-Bleed Labels

In full-bleed labels, color prints up to the edge of the label. With non-bleed labels, color stops at a margin before the edge of the label.

Use the following guidelines when setting up a file for a **full-bleed label**.

- If you are using matrix-in media, the height and width of the label file “canvas” should be 0.25” (.63 cm) larger than the height and width of the physical label. This size will allow a bleed on all sides of the label (onto the matrix) while accommodating the printer’s minimal label wander.
- If you are using media with the matrix removed, you can print all the way to the edge of die-cut labels, but doing so may cause a small amount of ink to deposit onto the liner. In the event excess ink deposits on the liner, it will not dry and may smear onto other surfaces, including hands and other printed labels. As a guideline, no more than 0.02” (0.5 mm) of ink should be printed onto the liner.

- Design elements that will run to the edge of the label are the parts of the design that will “bleed” across the edge. Your bleed will most commonly be a solid color, pattern, or gradient background running off the edge of the label.

Use the following guidelines when setting up a file for a **non-bleed label**.

- The height and width of the label file “canvas” should be the same as the height and width of the physical label.
- All design elements should be placed inside a .0625” (1.5 mm) border of the canvas. This will ensure such design elements never run to or over the edge of the label.

Printing Black

There are two ways to print black with the Kiaro! 200 printer. The printing method will vary based on the RGB values of the black color being printed.

- **True Black** - This method uses only black ink when printing black. The RGB color values must all be between 0 and 1 to print in true black. For example, images with RGB values of 0,0,0 or 0,1,0 or 1,1,1 will print using only black ink.
- **Process Black** - This method uses a mixture of inks when printing black. If RGB color values are not between 0 and 1, process black will be used. For example, images with RGB values of 2,2,2 or 1,1,2 or 0,0,30 will print using a mixture of inks in a process black.

Verifying Label Width

When designing labels, ensure the width of your label design matches the width of the media you will be using. If your label file is wider than the media, the printer will attempt to print the full width of your label. In this situation, ink will be injected into the transport assembly and will require cleaning.

Use the ruler on the manual cutter to verify the width of your label media before printing.

Setting up the Label Design Software

This section describes how to set up your label design software to print on the Kiaro! 200.

Setting up Labels in Custom QuickLabel Omni

Custom QuickLabel Omni is a software application developed by QuickLabel Systems to access special features in our printers and allow customers to easily design and print labels.

For detailed label setup and printing instructions, please refer to the Custom QuickLabel Help.

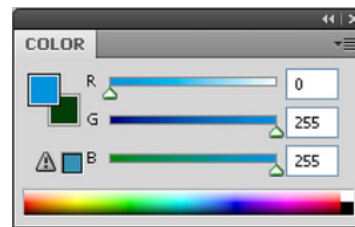
Setting up Labels in Third-Party Design Applications

You can design and print label files exclusively within a third-party application such as Adobe Photoshop or Illustrator. In this situation, use the following guidelines to ensure best results.

Note: You can also use third-party applications to design components of a label to be imported into Custom QuickLabel Omni. In this situation, save or export graphic files in a .BMP, .PCX, uncompressed .JPG, uncompressed .TIF, .GIF, .PNG, or .PDF format.

- **Select a resolution of 600 pixels per inch** - For raster-based design applications such as Adobe Photoshop, choose a resolution of 600 pixels per inch. This will provide sufficient image resolution to produce superior 1200 pixel per inch output quality. This setting is not used in vector-based design applications such as Adobe Illustrator.
- **Use in-gamut colors** - When designing in color, ensure you use colors that are within the printing gamut. Most design applications will indicate when a color is out of gamut.

For example, in Adobe Photoshop and Illustrator, out-of-gamut colors are indicated by an exclamation point icon in the Color palette.



Out-of-gamut colors cannot be accurately printed. There are often colors that can be found to replace out-of-gamut colors.

- **If the application supports color management, enable it** - Professional design applications support color management. This option is typically found in the application's print window.

Ensure the Color Adjustment in the Kiaro! 200 printer driver is set to "Application Managed". Color management should be enabled in either the design application or printer driver, but not both.

Setting up the Printer Driver

Selecting a Label Stock

Before you print using a third-party application, you will need to select the appropriate label stock in the printer driver.

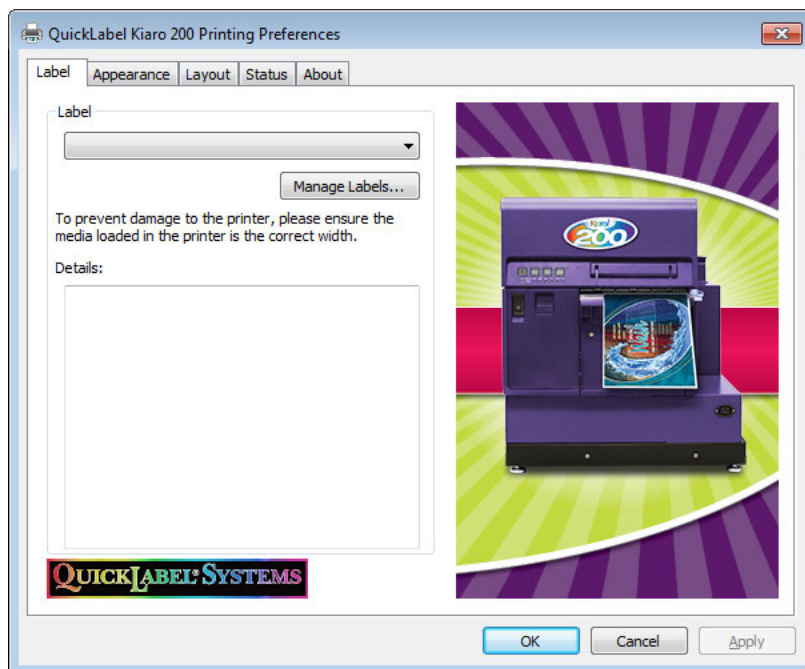
Note: Driver instructions apply only to printing via third party design applications. If you are using Custom QuickLabel Omni, this process is not required.

- 1 Open the appropriate printer window based on your version of Windows.
 - In Windows XP, choose **Start > Printers and Faxes**.
 - In Windows Vista, choose **Start > Control Panel > Printers**.
 - In Windows 7, choose **Start > Devices and Printers**.
 - In Windows 8, access the **Search** option by pointing to the upper-right corner of the screen. Search for "Control Panel" and click the **Control Panel** icon. In the Control Panel window, click **View Devices and Printers**.

Right-click the printer icon and choose **Printing Preferences**. The QuickLabel Kiaro! 200 Printing Preferences window will open.

Note: You can also access the driver preferences via the application's print dialog. From the Print window in your software, select QuickLabel Kiaro! 200 from the printer list and choose Properties or Setup (varies based on program).

- 2 Choose the **Label** tab.



- 3 Select a label stock from the list.

Note: If necessary, you can set up a custom label stock to meet your needs.

4 Choose **OK**.

Related Topics:

- Setting up a Custom Label Stock on page 33

Setting up a Custom Label Stock

You can add and modify custom label stocks in the printer driver.

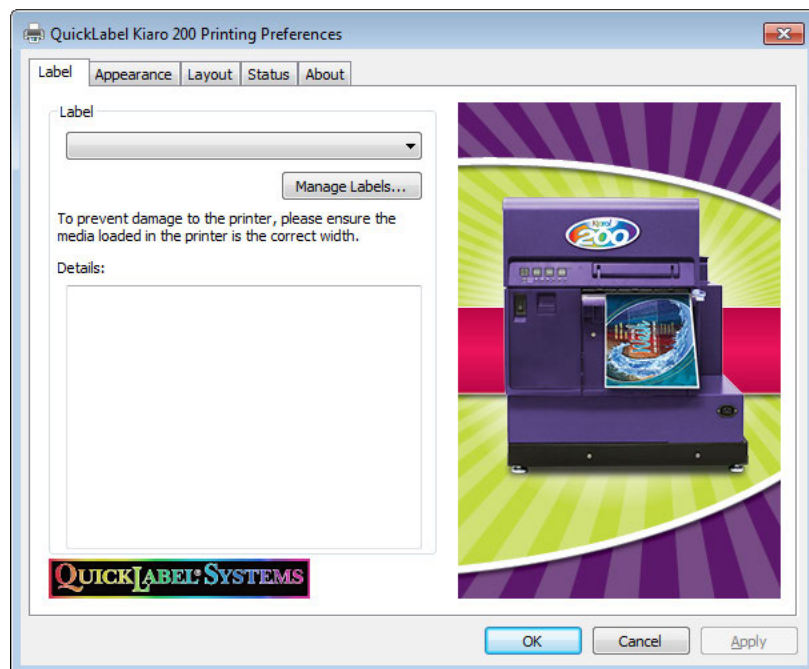
Note: Driver instructions apply only to printing via third party design applications. If you are using Custom QuickLabel Omni, this process is not required.

- 1 Open the appropriate printer window based on your version of Windows.
 - In Windows XP, choose **Start > Printers and Faxes**.
 - In Windows Vista, choose **Start > Control Panel > Printers**.
 - In Windows 7, choose **Start > Devices and Printers**.
 - In Windows 8, access the **Search** option by pointing to the upper-right corner of the screen. Search for "Control Panel" and click the **Control Panel** icon. In the Control Panel window, click **View Devices and Printers**.

Right-click the printer icon and choose **Printing Preferences**. The QuickLabel Kiaro! 200 Printing Preferences window will open.

Note: You can also access the driver preferences via the application's print dialog. From the Print window in your software, select QuickLabel Kiaro! 200 from the printer list and choose Properties or Setup (varies based on program).

- 2 Choose the **Label** tab.



- 3 Choose **Manage Labels**. The Manage Labels window will open.

Note: Choose the “Where do I find these values?” button to view a help topic that describes how to locate setup information about your labels.

- 4 Enter a name for the label stock.
- 5 Select whether to specify sizes in inches or millimeters.
- 6 Enter the total width (TW) of the media construction, including the narrow portions of exposed liner near the edges of the media.
- 7 Enter the printable width (also called maximum printable width, or MPW). Do not include the narrow portions of exposed liner near the edges of the media.
- 8 Enter the label length (also called maximum printable length, or MPL). The MPL is printed on a label located inside the cardboard core of the label roll.
- 9 Select the type of material the label will be printed on.
- 10 Enter the length of the media reflective mark (also called GML).
- 11 Select the shape of the label.
- 12 If you are printing a full-bleed label, you can eliminate white space along the edges of the label by selecting vertical and horizontal bleed values. If a value is greater than zero, the printed label length/width will be slightly increased to bleed to the edge of the label.

Up to four degrees of vertical overbleed can be used. Each vertical bleed degree increases the label length by .1 mm in each vertical direction. Up to eight degrees of horizontal overbleed can be used in each horizontal direction. Each horizontal

bleed degree increases the label width by .1 mm in the respective horizontal direction.

When using this option, design your label so the bleed area extends beyond the edges of the label “canvas” in your label design software.

- 13** If necessary, use the offset options to adjust the location of a printed image relative to the registration marks on the media.
 - **Vertical Offset** - Negative values move the image down on the label (out away from the printer). Positive values move the image up the label (in toward the printer).
 - **Horizontal Offset** - Negative values move the image left on the label. Positive values move the image right the label.
- 14** Choose **Add**.
- 15** If necessary, you can edit or delete label stocks.
 - To edit a label stock, select it from the list and modify its settings. Then choose **Modify**.
 - To delete a label stock, select it from the list and choose **Delete**.
- 16** If necessary, you can import or export label stock information. This is helpful when transferring label stock settings between multiple computers.
 - **Import** - Choose this option to import label stock information from a file.
 - **Export** - Choose this option to export all label stock information to a file.
- 17** Choose **OK**.

Setting up Appearance Options

Before you print using a third-party application, you will need to select appearance options for your label.

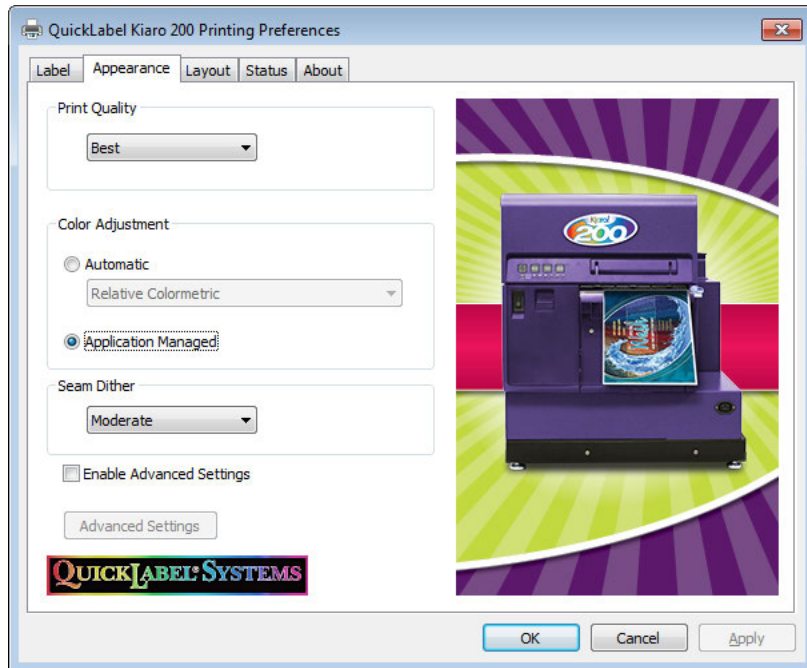
***Note:** Driver instructions apply only to printing via third party design applications. If you are using Custom QuickLabel Omni, this process is not required.*

- I** Open the appropriate printer window based on your version of Windows.
 - In Windows XP, choose **Start > Printers and Faxes**.
 - In Windows Vista, choose **Start > Control Panel > Printers**.
 - In Windows 7, choose **Start > Devices and Printers**.
 - In Windows 8, access the **Search** option by pointing to the upper-right corner of the screen. Search for "Control Panel" and click the **Control Panel** icon. In the Control Panel window, click **View Devices and Printers**.

Right-click the printer icon and choose **Printing Preferences**. The QuickLabel Kiaro! 200 Printing Preferences window will open.

Note: You can also access the driver preferences via the application's print dialog. From the Print window in your software, select QuickLabel Kiaro! 200 from the printer list and choose Properties or Setup (varies based on program).

2 Choose the **Appearance** tab.



3 Select a print quality.

- **Best** - If you select this option, labels will be printed with the best possible quality. Labels will be printed with 1200 dpi resolution.
- **Fast** - If you select this option, print jobs start sooner because there is less data sent to the printer. However, the actual printing speed is identical in best and fast modes. Labels will be printed with 600 dpi resolution.
- **Economy** - If you select this option, labels will be printed using less ink. This mode is best used for printing label proofs. Labels will be printed with 1200 dpi resolution.

- 4 Select whether color adjustment is automatic or controlled by the label design application software.
 - **Automatic** - If you select this option, the printer driver will apply color adjustments. Use this if your design application does not support color adjustment, or if you want to manage color in the printer driver instead of the design application for simplicity.

Note: If you are managing color adjustment in the design application, do not enable this option, as it will result in two color adjustments: one in the application and one in the driver.

- **Application Managed** - If you select this option, the printer driver will not apply color adjustments. Instead, color will be managed by the application (Adobe Photoshop or Illustrator for example).

If you select **Automatic**, select the type of automatic color adjustment.

- **Perceptual** - Perceptual rendering compresses the entire color source, both in and out-of-gamut colors, until all colors can be represented by the printer. This rendering changes all colors equally, and therefore maintains the relationship between each color. However, this also ensures that even in-gamut colors are changed, sometimes significantly, from their original tone.
- **Relative Colorimetric** - Relative colorimetric rendering scales the white point of the source image to match the white point of the target space. This ensures that all colors, while different from their original colors, at least maintain the same relationship to white. As in absolute colorimetric rendering, out-of-gamut colors are then mapped to the closest in-gamut color. This method provides a more consistent relationship to white, but alters in-gamut colors, and is still subject to the some of the gradation problems that occur with absolute colorimetric rendering.
- **Absolute Colorimetric** - Absolute colorimetric rendering alters only out-of-gamut colors, and does so by mapping them to the nearest in-gamut color. This results in no change to in-gamut colors, but can significantly alter relationships between in and out-of-gamut colors. This is often visible in the form of large “flat” looking areas, or areas with sudden, coarse tonal gradations.
- **Saturation** - Saturation rendering converts saturated simple colors in the source space to the same saturated basic colors in the print space, ignoring any differences in hue and lightness. Because of its simplicity, saturation rendering is best used on images with basic color use, as opposed to photographs, which will not render as well.

- 5 Select whether to enable seam dithering.

The Kiaro! 200 uses two adjacent printheads to print wide format labels. These printheads overlap slightly near the center of the print area. In some label designs, a printing artifact may appear resulting from the line where both printheads overlap.

You can use the **Seam Dither** options (Minimum, Moderate, or Maximum) to reduce the appearance of the overlap artifact. Seam dithering can also be disabled.

- 6 Choose **OK**.

Setting Advanced Color Options

Before you print using a third-party application, you can set advanced color options to define how colors on your label will be printed.

Note: Advanced color adjustment is rarely needed. Check the image in your design application before making adjustments in the Advanced Color Settings window.

Note: Driver instructions apply only to printing via third party design applications. If you are using Custom QuickLabel Omni, this process is not required.

- 1 Open the appropriate printer window based on your version of Windows.
 - In Windows XP, choose **Start > Printers and Faxes**.
 - In Windows Vista, choose **Start > Control Panel > Printers**.
 - In Windows 7, choose **Start > Devices and Printers**.
 - In Windows 8, access the **Search** option by pointing to the upper-right corner of the screen. Search for "Control Panel" and click the **Control Panel** icon. In the Control Panel window, click **View Devices and Printers**.

Right-click the printer icon and choose **Printing Preferences**. The QuickLabel Kiaro! 200 Printing Preferences window will open.

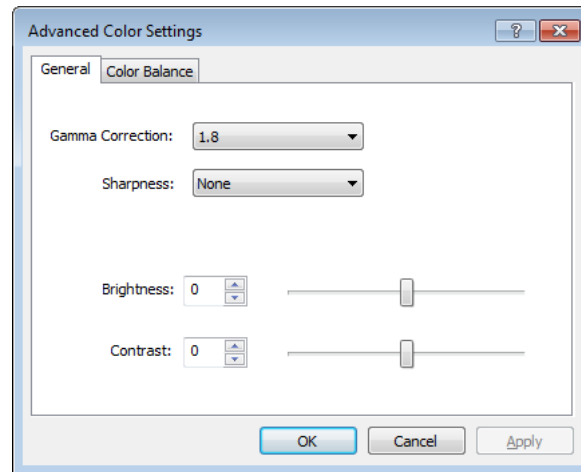
Note: You can also access the driver preferences via the application's print dialog. From the Print window in your software, select QuickLabel Kiaro! 200 from the printer list and choose Properties or Setup (varies based on program).

- 2 Choose the **Appearance** tab.



- 3 Check **Enable Advanced Settings** to enable the settings defined in this procedure.

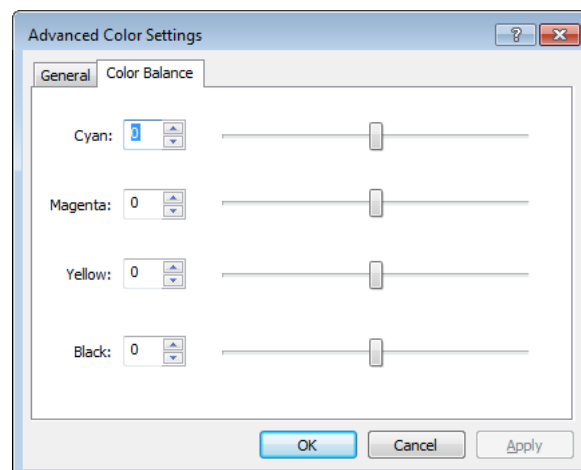
- 4 Choose **Advanced Settings**. The Advanced Color Settings window will open. Choose the **General** tab.



- 5 Set the general options.
 - **Gamma Correction** - Select the amount of gamma correction that will be applied (1.4, 1.8, or 2.2). This option affects the darker regions of the image. A lower value lightens dark regions while a higher value makes them darker.
 - **Sharpness** - Select whether to adjust the image sharpness.
 - **Brightness** - Select whether to adjust the image brightness.
 - **Contrast** - Select whether to adjust the image contrast.

Choose **Apply**.

- 6 Choose the **Color Balance** tab.



- 7 Set the color balance options. You can choose whether to increase or decrease the cyan, magenta, yellow, and black colors.

Choose **Apply**.

- 8 Choose **OK**.

Setting up Layout Options

Before you print using a third-party application, you will need to select layout options to define how your label will be printed.

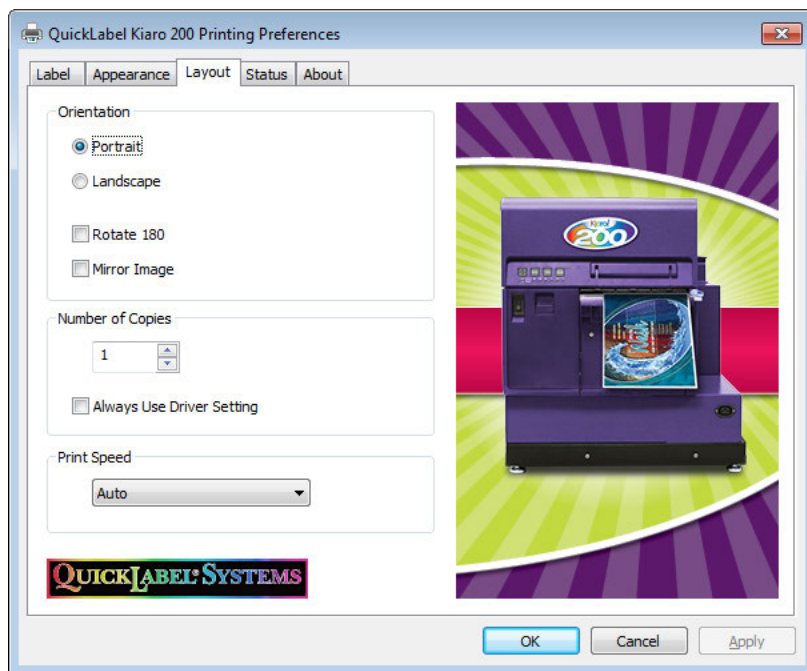
Note: Driver instructions apply only to printing via third party design applications. If you are using Custom QuickLabel Omni, this process is not required.

- 1 Open the appropriate printer window based on your version of Windows.
 - In Windows XP, choose **Start > Printers and Faxes**.
 - In Windows Vista, choose **Start > Control Panel > Printers**.
 - In Windows 7, choose **Start > Devices and Printers**.
 - In Windows 8, access the **Search** option by pointing to the upper-right corner of the screen. Search for "Control Panel" and click the **Control Panel** icon. In the Control Panel window, click **View Devices and Printers**.

Right-click the printer icon and choose **Printing Preferences**. The QuickLabel Kiaro! 200 Printing Preferences window will open.

Note: You can also access the driver preferences via the application's print dialog. From the Print window in your software, select QuickLabel Kiaro! 200 from the printer list and choose Properties or Setup (varies based on program).

- 2 Choose the **Layout** tab.



- 3 If necessary, you can select a printing orientation. Orientation is often set within the design application. However, if you cannot select an orientation in the design application, choose from the following options:
 - **Portrait** - Select this option if you want to print the label in a portrait orientation on the label roll.
 - **Landscape** - Select this option if you want to print the label in a landscape orientation on the label roll.
- 4 If necessary, you can rotate the printed image 180 degrees by choosing **Rotate 180**.
- 5 If necessary, you can print the image in a mirrored orientation by choosing **Mirror Image**.
- 6 If necessary, you can select a printing quantity. Print copies are specified within the application before printing. However, you can override that value here, or use this setting if the application does not provide a setting.

If you enable the **Always Use Driver Setting** option, the print quantity you specify in the driver will override the print quantity specified in your design application.
- 7 If necessary, you can change the print speed. However, the **Auto** print speed is recommended. This option automatically adjusts printing speed based on the speed of the print job data received by the printer.

When the printer does not have enough data it will stop printing, wait for the required amount of data, then retract media to the next label and resume printing. If automatic speed is used, printing will continue at a slower speed. If a specific speed is selected, printing will continue at the same speed.
- 8 Choose **OK**.

Printing Labels

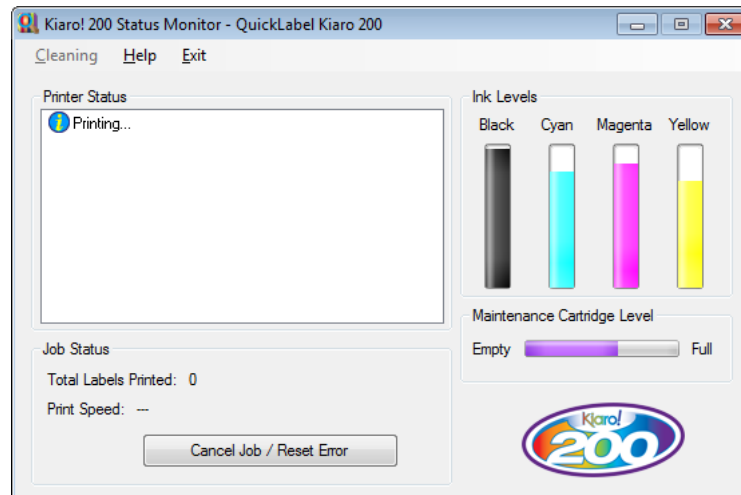
- 1 Ensure the label media has been loaded.
- 2 If you are printing from a third-party design application, ensure the printer driver preferences are configured.
- 3 In your design application, ensure the width of your label design matches the width of the media you will be using.

If your label file is wider than the media, the printer will attempt to print the full width of your label. In this situation, ink will be injected into the transport assembly and will require cleaning.

Use the ruler on the manual cutter to verify the width of your label media before printing.
- 4 Open the label file using the appropriate software. Then choose to print the label, and enter the number of copies you would like to print.

Note: If your software has a collate option, disable it before printing.

- 5 Print the labels. The Status Monitor will automatically open and display information about printer and job status.



The job progress will be displayed in the Status Monitor.

If necessary, you can cancel the print job by choosing **Cancel Job/Reset Error** on the Status Monitor.

- 6 Receive the printed labels. At the end of the job, cut the label material with the manual cutter.

Note: Do not pull the printed labels in any direction as they exit the printer. Pulling the labels may result in a media jam.

Related Topics:

- Using the Manual Cutter on page 42

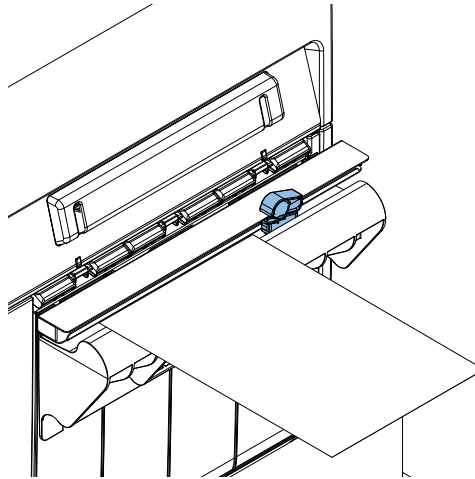
Using the Manual Cutter

After completion of label printing, cut the label using the manual cutter.

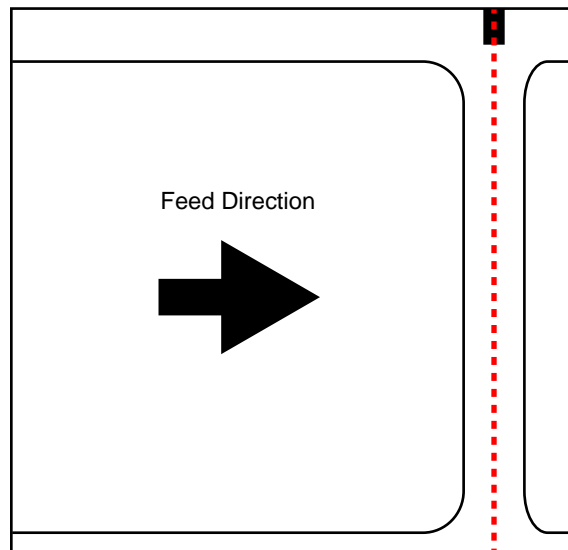
Warning: The cutter blade is sharp. Use caution to avoid personal injury or damage to clothing when working with cutting blades or around exposed blade surfaces.

- 1 Hold the printed label. If the printed label is short, press the FEED key to eject paper to the position where you can hold the label with ease.

- 2 Cut the label by moving the cutter across the media while pressing the cutter lightly.



- 3 Return the cutter to the original position.
- 4 Verify that the cut is located in the center of the reflective mark as illustrated by the dashed red line below.

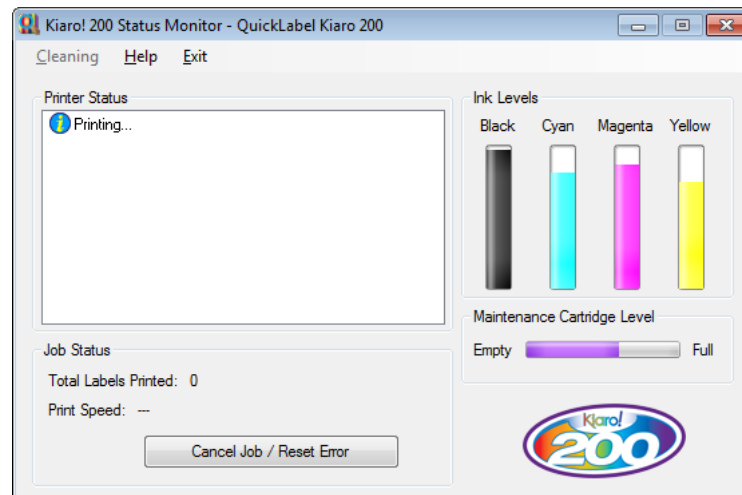


If the cut is not located in the center of the reflective mark, label feeding errors may occur. Adjust the stop position so the cut is centered on the mark. Setting the Stop Position

Using the Status Monitor

Viewing the Printer Status

- 1 Open the Kiaro! 200 Status Monitor. You can access the Status Monitor from the Windows Start Menu, Kiaro! 200 Maintenance Utility, or the printer driver.
 - From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Status Monitor**.
 - In the Kiaro! 200 Maintenance Utility, choose **Status Monitor**.
 - In the Kiaro! 200 printer driver, choose **Status Monitor** from the **Status** tab.



- 2 You can view status information in the Printer Status area. This area will display informational, error, and warning messages related to your printer's current status.
- 3 If necessary, you can initiate printhead cleaning if the printer is in the Ready, Sleeping, or Paused modes.

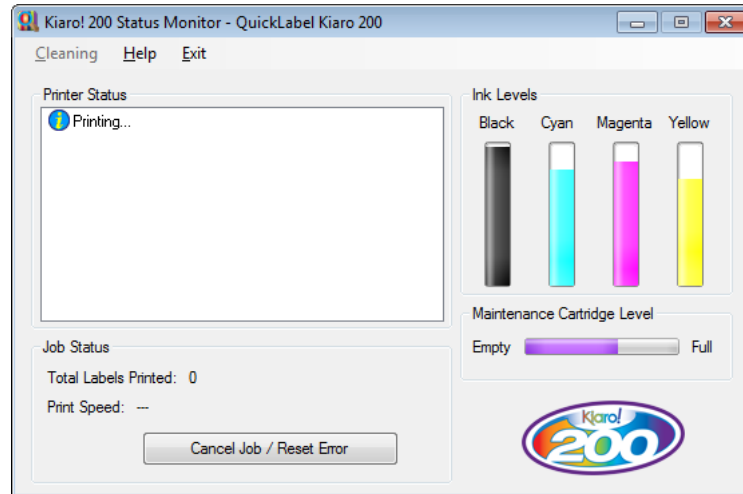
Three cleaning options are available (light, medium, and heavy) for each printhead. Start with light cleaning and then print a test label. If the issue is not resolved, repeat using the medium cleaning method. If the issue is still not resolved, repeat using heavy cleaning.

If multiple heavy cleanings do not resolve the issue, contact Technical Support.

- 4 If necessary, you can view help topics by choosing **Help > Help Topics**.

Viewing the Job Status and Cancelling Jobs

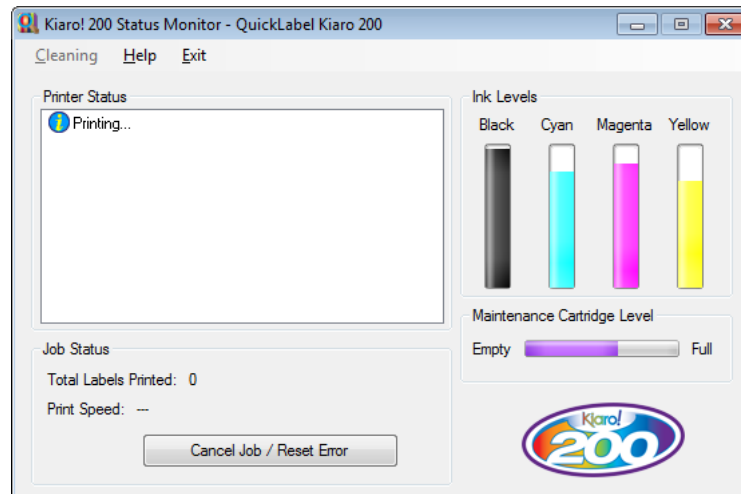
- 1 Open the Kiaro! 200 Status Monitor. You can access the Status Monitor from the Windows Start Menu, Kiaro! 200 Maintenance Utility, or the printer driver.
 - From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Status Monitor**.
 - In the Kiaro! 200 Maintenance Utility, choose **Status Monitor**.
 - In the Kiaro! 200 printer driver, choose **Status Monitor** from the **Status** tab.



- 2 You can view print job information in the Job Status area.
- 3 If necessary, you can cancel an in-progress job by choosing **Cancel Job**.

Viewing Ink and Maintenance Cartridge Levels

- 1 Open the Kiaro! 200 Status Monitor. You can access the Status Monitor from the Windows Start Menu, Kiaro! 200 Maintenance Utility, or the printer driver.
 - From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Status Monitor**.
 - In the Kiaro! 200 Maintenance Utility, choose **Status Monitor**.
 - In the Kiaro! 200 printer driver, choose **Status Monitor** from the **Status** tab.



- 2 You can view estimates of remaining ink percentages in the Ink Levels area.
- 3 You can view an estimate of the maintenance cartridge level percentage in the Maintenance Cartridge Level area.

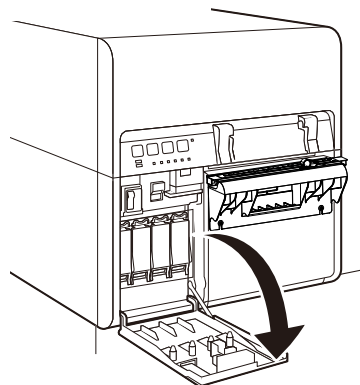
Changing or Replacing Media

Removing Media

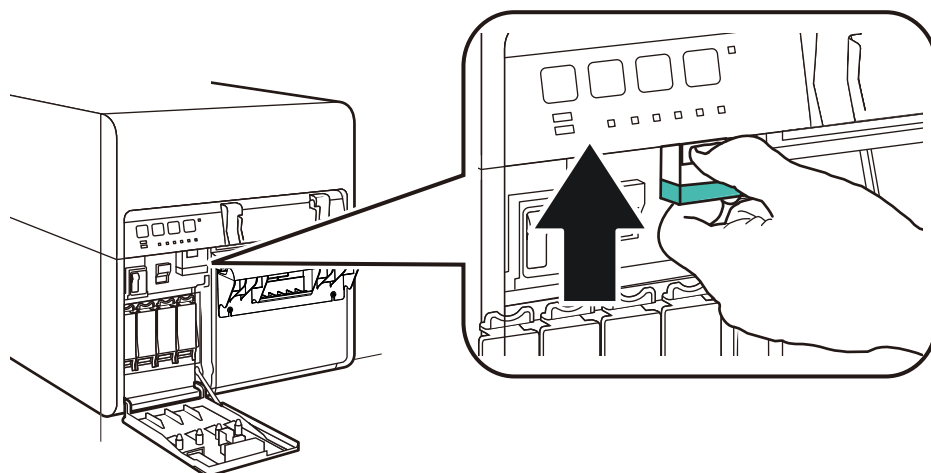
Some steps for removing media will differ slightly depending on the Kiaro! 200 model you are using. You can identify the Kiaro! 200 model based on whether it has a roll cover over the supply mandrel area.

- 1 If your printer model has a roll cover, open it.

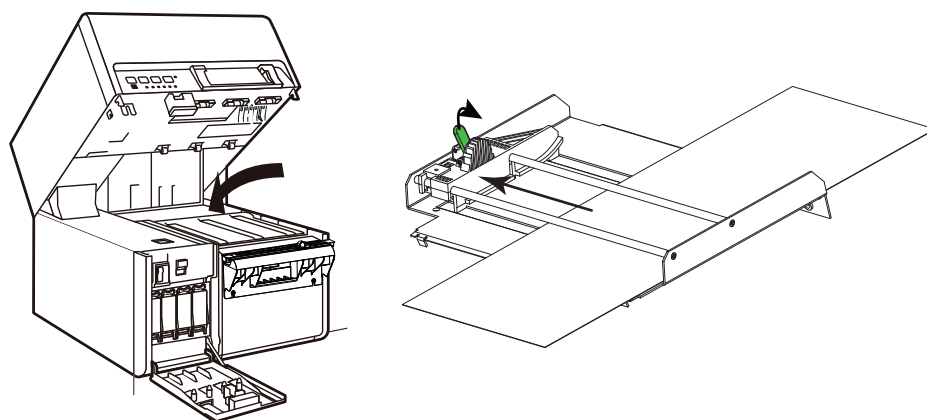
- 2 Open the ink tank door.



- 3 Push the upper unit release lever up to open the upper unit.

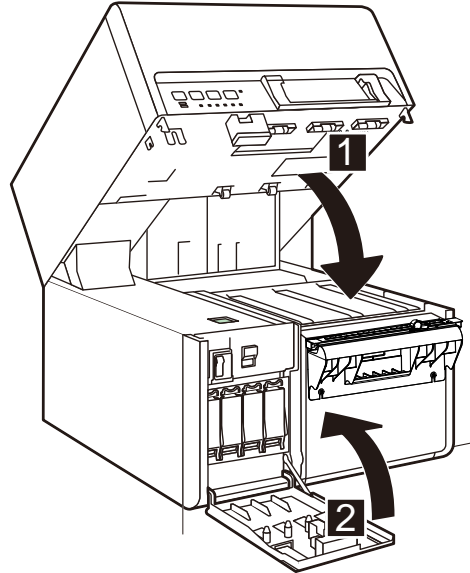


- 4 Adjust the input guide inside the upper unit. Press the green lever and slide the guide fully away from the media. Then release the green lever.

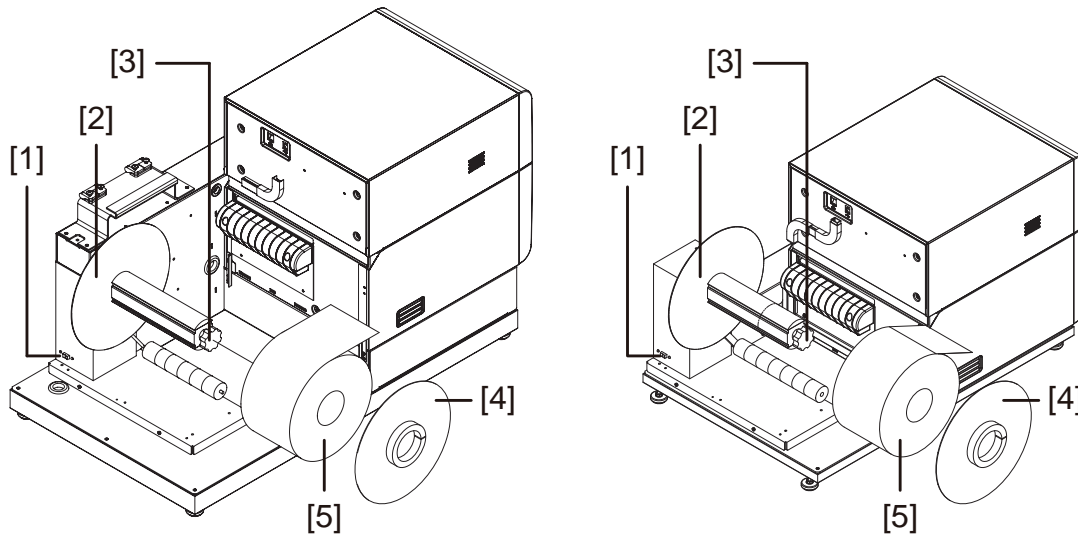


- 5 Pull the media out from the entry slot on the rear of the printer.

- 6 Close the upper unit and then close the ink tank door.



- 7 Ensure the power switch [1] on the supply mandrel is in the off position.



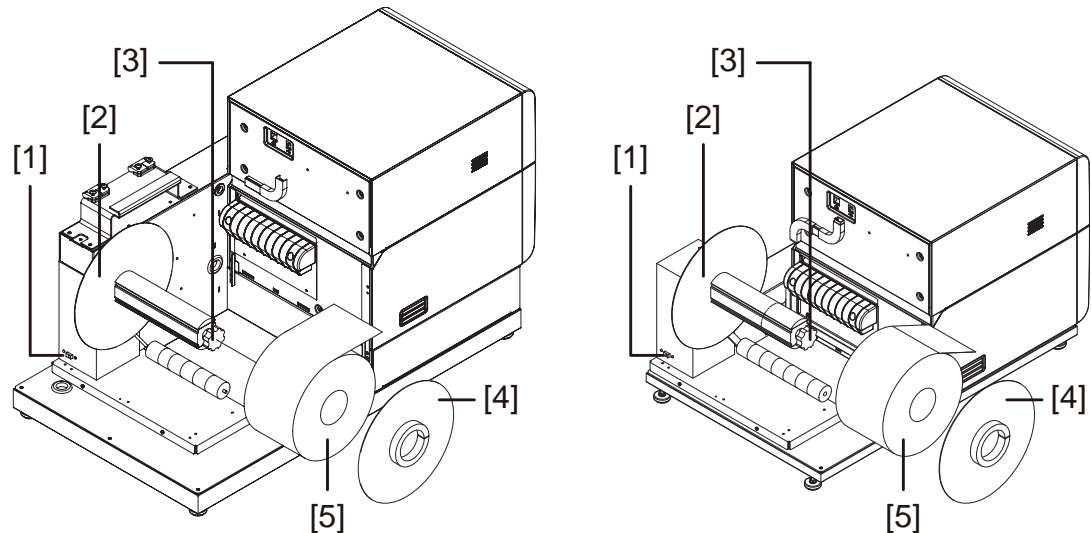
Note: The printer model on the left has the roll cover (not illustrated). The printer model on the right does not have the roll cover.

- 8 Turn the mandrel adjustment knob [3] counterclockwise to loosen the mandrel.
- 9 Remove the outer flange [4] from the mandrel.
- 10 Grasp the roll of label media [5] and remove it from the mandrel.
- 11 Reinstall the outer flange [4] and then turn the mandrel adjustment knob [3] clockwise to tighten the mandrel.
- 12 If your printer model has a roll cover, close it.

Loading Media

Some steps for loading media will differ slightly depending on the Kiaro! 200 model you are using. You can identify the Kiaro! 200 model based on whether it has a roll cover over the supply mandrel area.

- 1 If your printer model has a roll cover, open it.
- 2 Ensure the power switch [1] on the supply mandrel is in the off position.

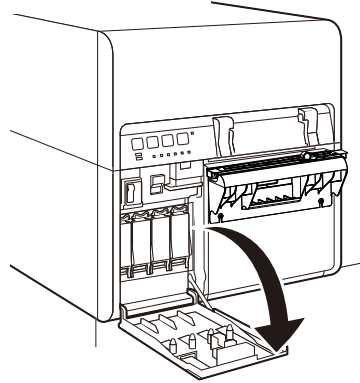


Note: The printer model on the left has the roll cover (not illustrated). The printer model on the right does not have the roll cover.

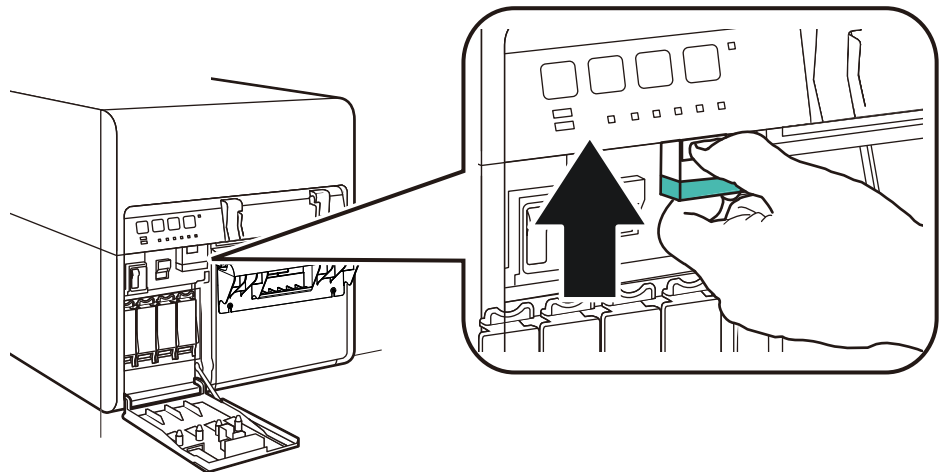
Caution: Do not turn the supply mandrel by hand to advance the media. Turning the mandrel by hand can result in printer damage.

- 3 Turn the mandrel adjustment knob [3] counterclockwise to loosen the mandrel.
- 4 Remove the outer flange [4] from the mandrel.
- 5 Orient a roll of label media [5] as illustrated and seat it on the mandrel. Ensure the side of the roll contacts the inner flange [2].

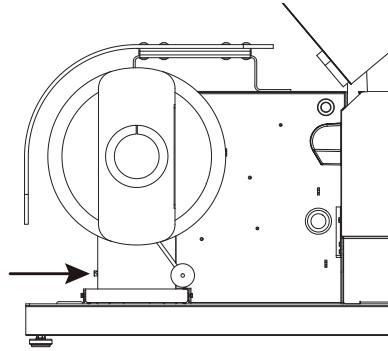
- 6 Reinstall the outer flange [4]. Refer to the information below to determine whether to tighten the mandrel.
 - If your printer model has a roll cover, turn the mandrel adjustment knob [3] clockwise to tighten the mandrel.
 - If your printer model does not have a roll cover, do not tighten the mandrel at this time.
- 7 Open the ink tank door.



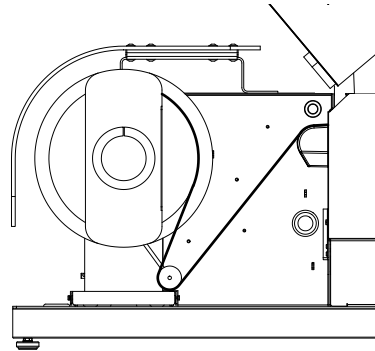
- 8 Push the upper unit release lever up to open the upper unit.



- 9 Turn the power switch on the supply mandrel to the on position.

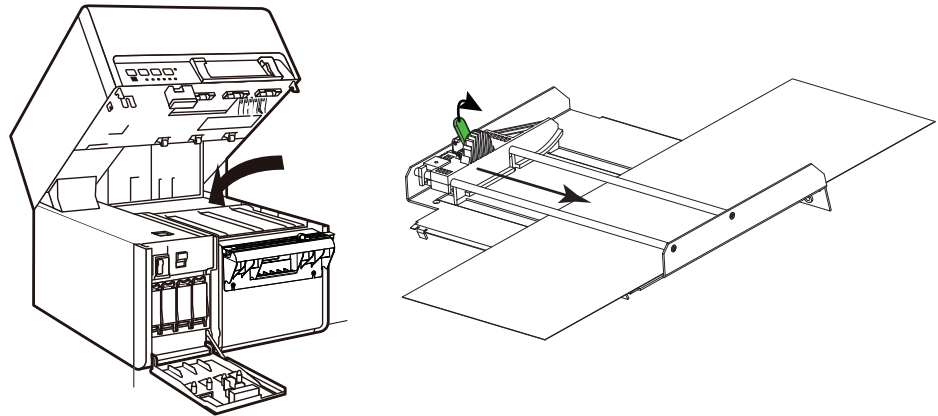


- 10 Feed the media under the dancer arm and up into the entry slot on the rear of the printer. The media path is illustrated below.



- If your printer model has a roll cover, the mandrel will unwind and feed media as the dancer arm is lifted. Do not turn the supply mandrel by hand to advance the media.
- If your printer model does not have a roll cover, ensure the mandrel is not tightened at this time. The media roll should rotate freely on the mandrel during this process.

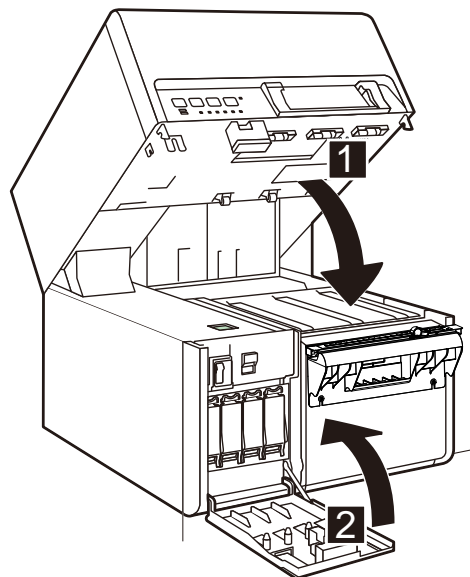
- 11 Adjust the input guide inside the upper unit. Press the green lever and slide the guide just before it contacts the media. Then release the green lever.



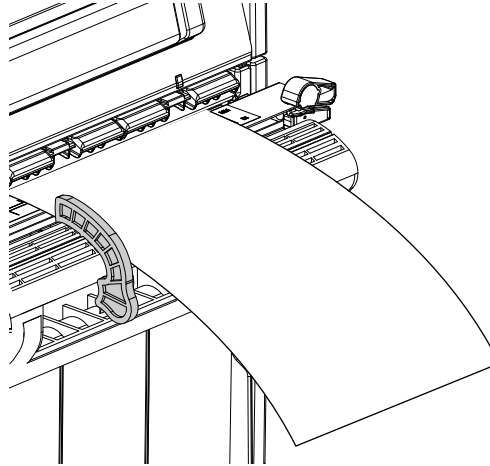
Label media should be able to move smoothly without being hindered by the input guide.

Note: The guide should be positioned to just touch the edge of the liner and not cause exposed liner to curl on either side.

- 12 Pull the media until it advances slightly past the manual cutter.
- 13 If your printer model does not have a roll cover, turn the mandrel adjustment knob [3] clockwise to tighten the mandrel.
- 14 Close the upper unit and then close the ink tank door.



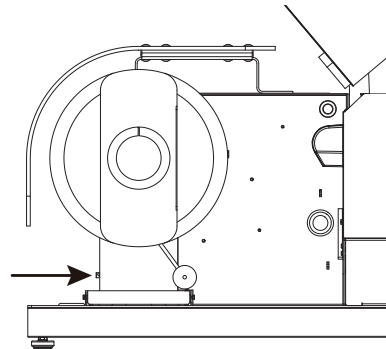
- 15 Position the media exit guide just before it contacts the media.



Label media should be able to move smoothly without being hindered by the exit guide.

Note: The guide should be positioned to just touch the edge of the liner and not cause exposed liner to curl.

- 16 If your printer model has a roll cover, close it.
- 17 Ensure the power switch on the supply mandrel is in the on position.



4

Kiario! 200 Maintenance Utility

About the Maintenance Utility

The Kiario! 200 Maintenance Utility is installed during the driver installation process. The utility allows you to view printer information and perform a variety of maintenance functions.

Printer Information Tab

Use the **Printer Information** tab to view printer system information, upgrade printer firmware, and set the clock.

Viewing Printer Information

- 1 Launch the Kiario! 200 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiario! 200 > Kiario! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiario! 200 printer you want to connect to. Choose **OK**.

2 Choose the **Printer Information** tab.

3 View the printer information.

- **Printer** - This section provides the serial number of the printer and the installed firmware version number.
- **Parts Counter** - This section provides the percentage of service life used by the blade cleaner and purge unit. When an item reaches 100% of service life used, it must be replaced.

This section also provides the amount of media that has been transported through the system.

- **Environment** - This section provides the current temperature and humidity of the printer location.
- **Print Heads** - This section provides the percentage of service life used by the printheads. If print quality is acceptable, you can continue to use a printhead past 100% of its service life.

This section also provides the serial numbers and installation dates for printheads.

Related Topics:

- [Parts Replacement Tab on page 86](#)

Upgrading the Printer Firmware

1 Ensure a Kiaro! 200 Firmware file (*.udf) is accessible from your PC.

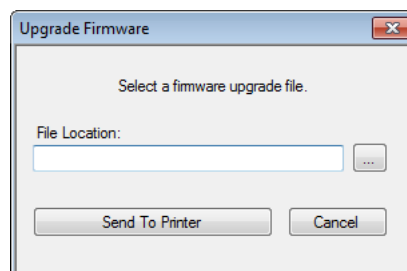
2 Launch the Kiaro! 200 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

3 Choose the **Printer Information** tab.

4 Choose **Update Firmware**. The Upgrade Firmware window will open.



5 Choose the **...** button. Browse to the Kiaro! 200 Firmware file (*.udf) and choose **Open**.

- 6 Choose **Send to Printer**.

A progress indicator will be displayed and the printer firmware will be upgraded. When this process is complete, the printer will restart automatically.

Setting the Clock

- 1 Launch the Kiaro! 200 Maintenance Utility.

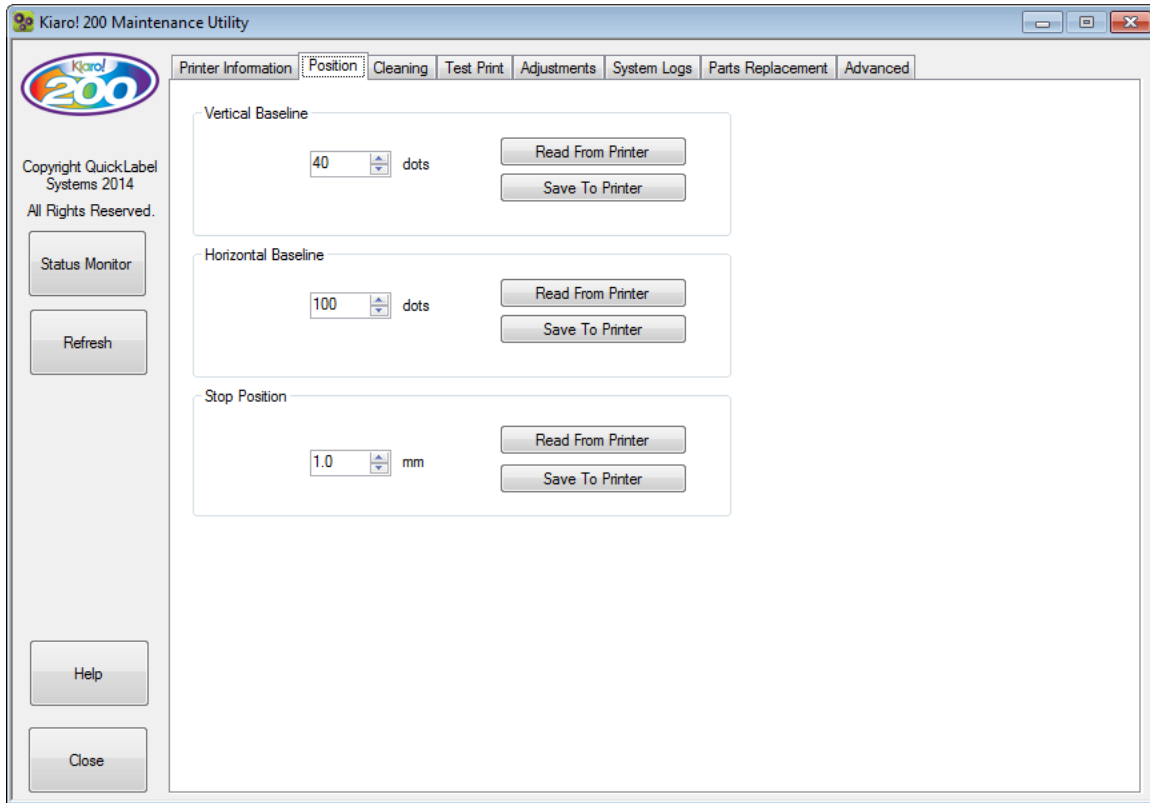
From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

- 2 Choose the **Printer Information** tab.
- 3 To set the date/time controls to the current date/time as defined by your Windows clock, choose **Get Current Time**.
- 4 To read the time from the printer's internal clock and set the date/time controls accordingly, choose **Read From Printer**.
- 5 To set the printer's internal clock, select a date/time with the controls and choose **Save to Printer**.

Position Tab

Use the **Position** tab to adjust the vertical baseline, horizontal baseline, and stop position.



Setting the Vertical Baseline

The vertical baseline setting adjusts the vertical position of the printed image. You can adjust the baseline -200 to +200 dots.

- 1 Launch the Kiario! 200 Maintenance Utility.

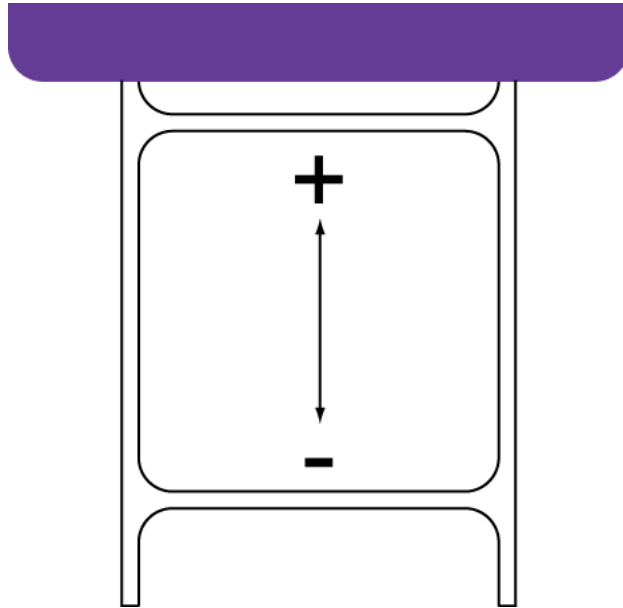
From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiario! 200 > Kiario! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiario! 200 printer you want to connect to. Choose **OK**.

- 2 Choose the **Position** tab.
- 3 To read the vertical baseline value from the printer and set the **Vertical Baseline** control accordingly, choose **Read From Printer**.

- 4 Enter a vertical baseline value.

In the following illustration, a label is exiting the printer. Note the positive and negative adjustment directions.



- 5 To save the vertical baseline value, choose **Save to Printer**.

Setting the Horizontal Baseline

The horizontal baseline setting adjusts the horizontal position of the printed image. You can adjust the baseline -93 to +200 dots.

- 1 Launch the Kiaro! 200 Maintenance Utility.

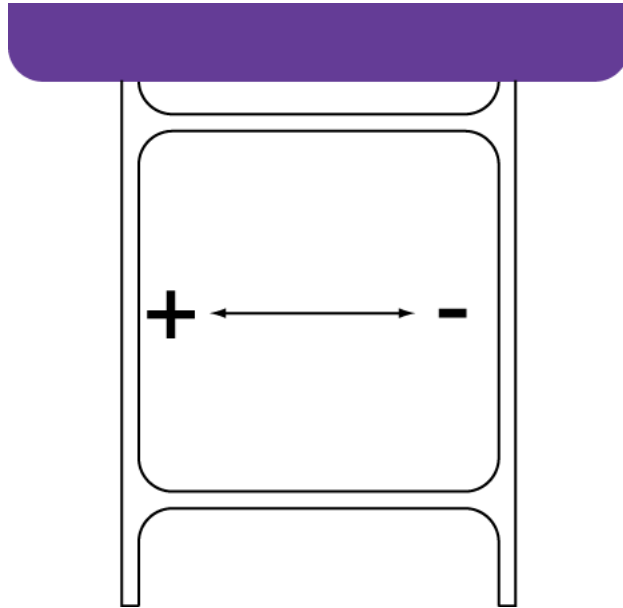
From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

- 2 Choose the **Position** tab.
- 3 To read the horizontal baseline value from the printer and set the **Horizontal Baseline** control accordingly, choose **Read From Printer**.

- 4 Enter a horizontal baseline value.

In the following illustration, a label is exiting the printer. Note the positive and negative adjustment directions.



- 5 To save the horizontal baseline value, choose **Save to Printer**.

Setting the Stop Position

The Stop Position setting adjusts the position at which the media is fed after printing. You can adjust the position -10 to +10 mm.

- 1 Launch the Kiaro! 200 Maintenance Utility.

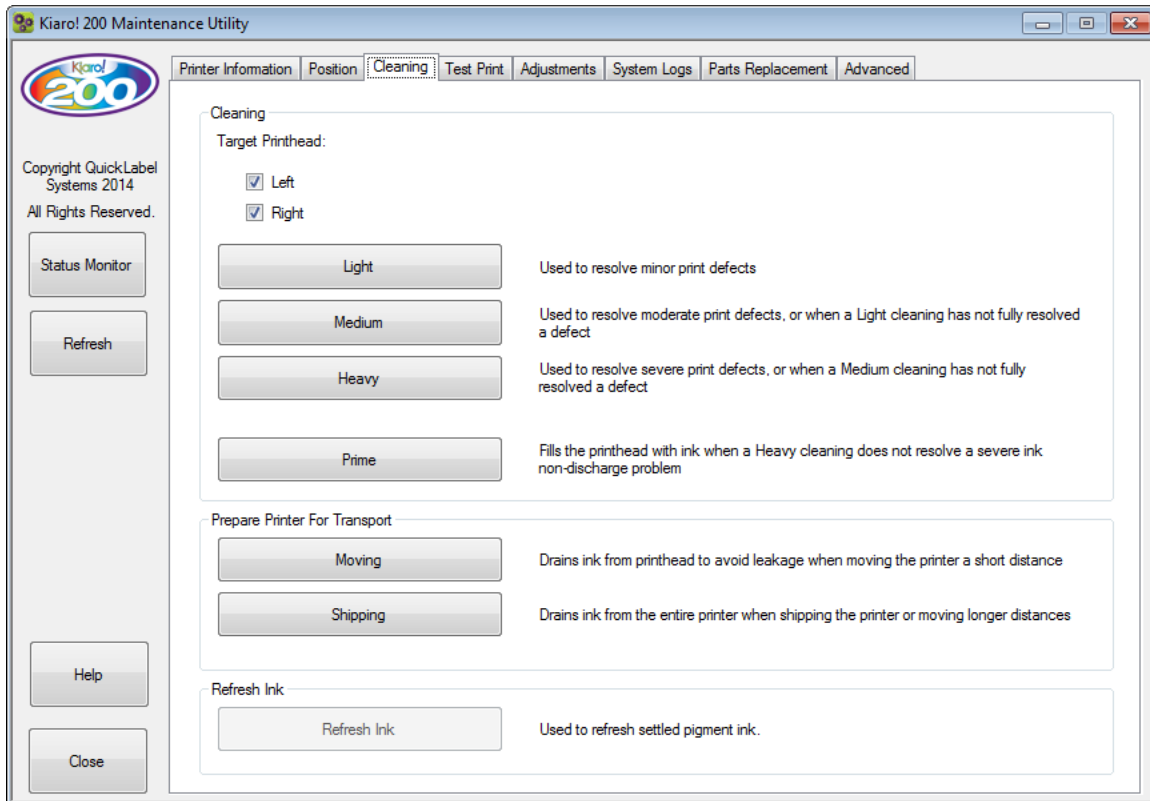
From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

- 2 Choose the **Position** tab.
- 3 To read the stop position value from the printer and set the **Stop Position** control accordingly, choose **Read From Printer**.
- 4 Enter a stop position value.
 - Positive values result in more media being fed after printing before the media stops.
 - Negative values result in less media being fed after printing before the media stops.
- 5 To save the stop position value, choose **Save to Printer**.

Cleaning Tab

Use the **Cleaning** tab to clean the printheads, prepare the printer for transport, and prime the printheads. If you are using the Kiaro! 200D printer, use this tab to refresh ink.



Cleaning Printheads

If you suspect print quality issues related to banding, clogged nozzles, or printing defects, you might want to initiate a cleaning.

Printhead cleaning cannot be done during a print job or if an error is occurring. When cleaning is in progress, do not perform any other operation.

Note: *Cleaning the printhead consumes ink. Clean the printhead only when necessary.*

The cleaning options discussed in this procedure are also available in the **Status** tab of the Kiaro! 200 printer driver and the **Cleaning** menu of the Kiaro! 200 Status Monitor.

- 1 Launch the Kiaro! 200 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

- 2 Choose the **Cleaning** tab.

- 3 Choose whether to clean the left and/or right printhead.

If there are print quality issues with a single printhead, you can save ink by cleaning only the affected printhead.

- 4 Choose a cleaning option.

Three cleaning options are available (light, medium, and heavy). Start with light cleaning and then print a test label. If the issue is not resolved, repeat using the medium cleaning method. If the issue is still not resolved, repeat using heavy cleaning.

If multiple heavy cleanings do not resolve the issue, contact Technical Support.

Preparing for Moving

Before moving the printer a short distance in your building, such as to a different floor, prepare it using the following instructions. This procedure will drain ink from the printhead to avoid leakage when moving the printer a short distance.

- 1 Launch the Kiaro! 200 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

- 2 Choose the **Cleaning** tab.

- 3 Choose **Moving**. Follow the on-screen instructions to complete this procedure.

Preparing for Shipping

Before shipping the printer over long distances, prepare it using the following instructions. This procedure will drain ink from the entire printer when shipping the printer or moving longer distances.

- 1 Ensure the message "Maintenance cartridge near full" is not displayed in the Status Monitor. If the warning message is displayed, replace the maintenance cartridge with a new one, and then start the work.

Note: If the Shipping function is executed while the warning message is displayed, the maintenance cartridge would be filled with waste ink and the printer would be shut down, incurring extra time.

- 2 Launch the Kiaro! 200 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

- 3 Choose the **Cleaning** tab.

- 4 Turn the printer power off and then back on to ensure the printer will not enter a sleeping state during the shipping process. The printer entering sleep mode at any point of the shipping process could result in a failure to complete the shipping process correctly.
- 5 Choose **Shipping**. Follow the on-screen instructions to complete this procedure. The ink will be drained from the printer.
- 6 Power off the printer.
- 7 Pack the printer in its original packing material for shipping.

Priming the Printheads

Priming fills the printhead with ink when a heavy cleaning does not resolve a severe ink non-discharge problem.

- 1 Launch the Kiaro! 200 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

- 2 Choose the **Cleaning** tab.
- 3 Choose whether to prime the left and/or right printhead.
- 4 Choose **Prime**. Follow the on-screen instructions to complete this procedure.

Refreshing Kiaro! 200D Ink

Due to pigment components, Kiaro! 200D ink requires periodic refreshing to maintain an optimum mixture. The status monitor will prompt you to refresh ink as needed.

***Note:** This feature applies only to the Kiaro! 200D ink. If you are using the standard Kiaro! 200, this procedure is not needed.*

- 1 Launch the Kiaro! 200 Maintenance Utility.

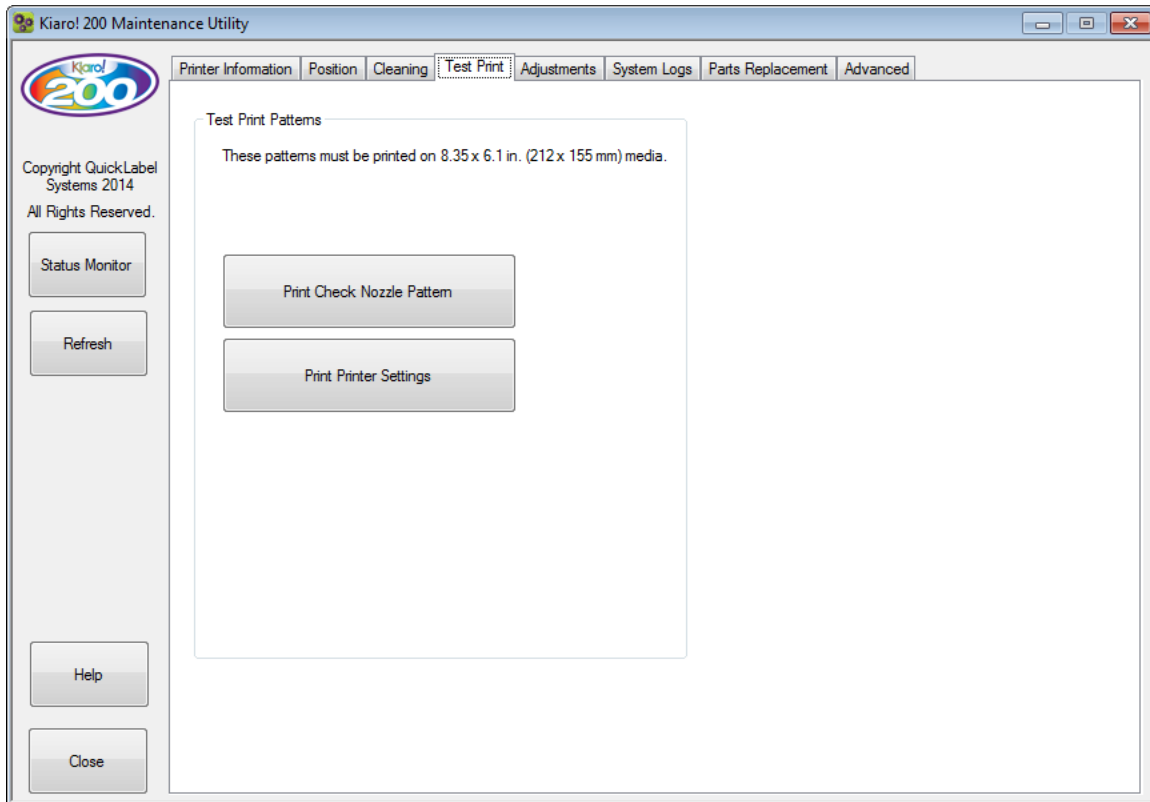
From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

- 2 Choose the **Cleaning** tab.
- 3 Choose **Refresh Ink**. Follow the on-screen instructions to complete this procedure.

Test Print Tab

Use the **Test Print** tab to print test patterns.



Printing a Test Pattern

- 1 Ensure that 8.35 x 6.1 in. (212 x 155 mm) media is loaded.
- 2 Launch the Kiario! 200 Maintenance Utility.

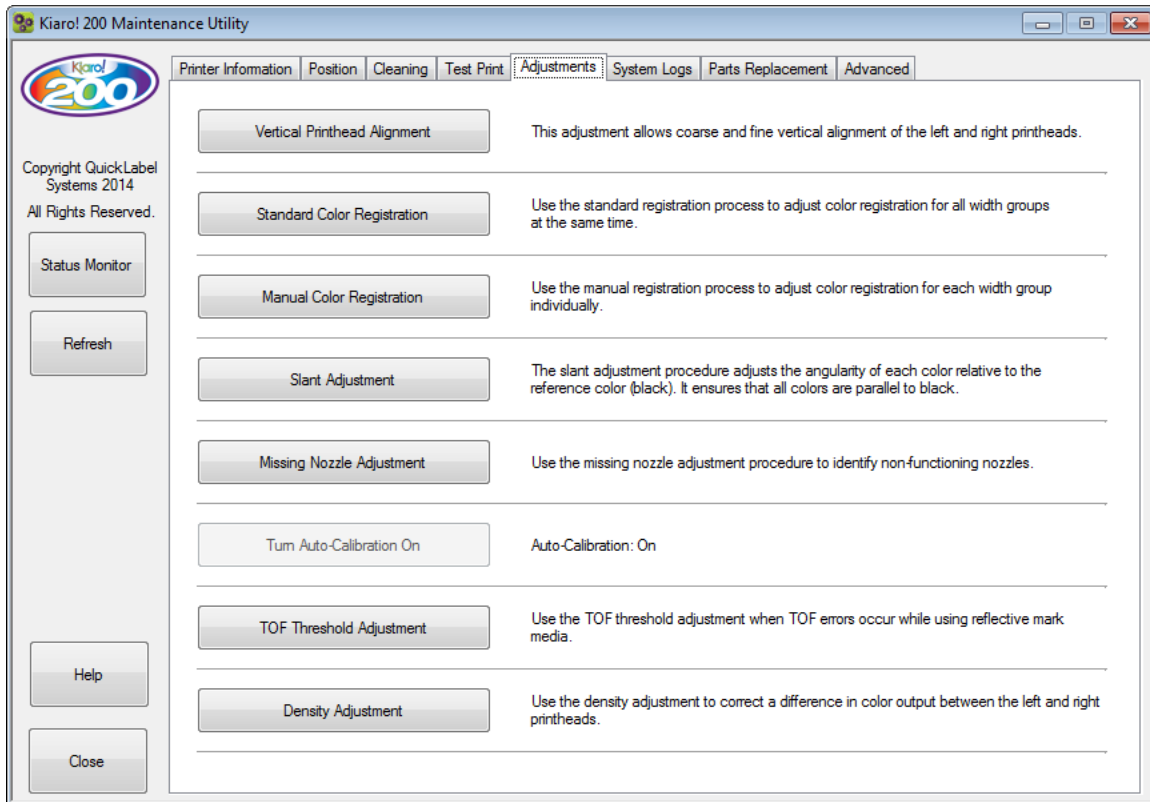
From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiario! 200 > Kiario! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiario! 200 printer you want to connect to. Choose **OK**.

- 3 Choose the **Test Print** tab.
- 4 Enter the number of copies you want to print. Then choose the test pattern.
 - **Print Nozzle Check Pattern** - Choose this option to print solid and shade patterns of each color.
 - **Print Printer Settings** - Choose this option to print the printer's registration, consumable levels, and other settings.

Adjustments Tab

Use the **Adjustments** tab to set color registration and top-of-form adjustment options.



Setting the Vertical Printhead Alignment

This adjustment allows coarse and fine vertical alignment of the left and right printheads. Use this adjustment only if you notice vertical misregistration between the areas printed by each printhead. This procedure is often required after replacing printheads.

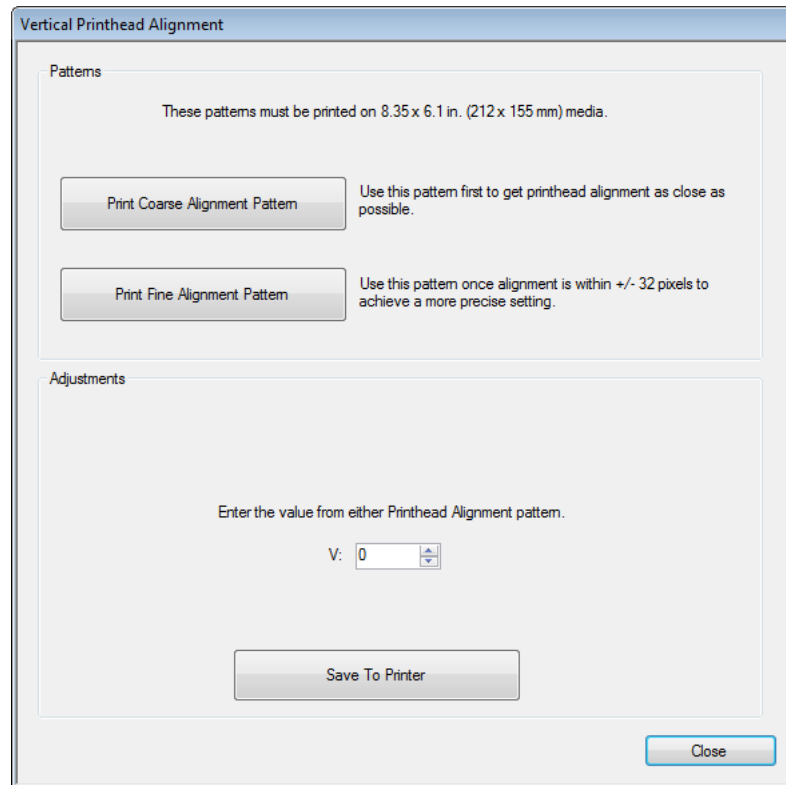
- 1 Ensure that 8.35 x 6.1 in. (212 x 155 mm) media is loaded.
- 2 Launch the Kiaro! 200 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

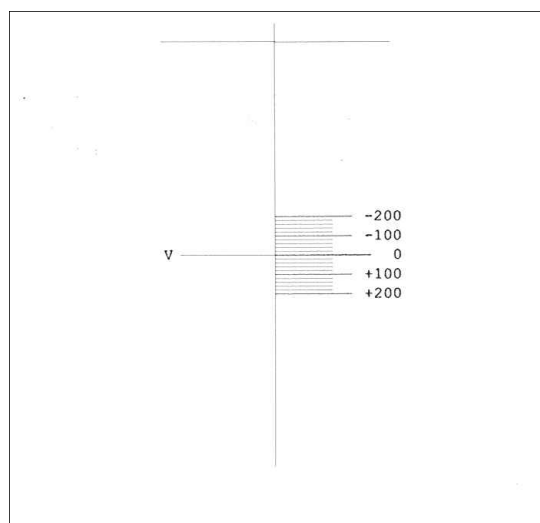
- 3 Choose the **Adjustments** tab.

- 4 Choose **Vertical Printhead Alignment**. The Vertical Printhead Alignment window will open.

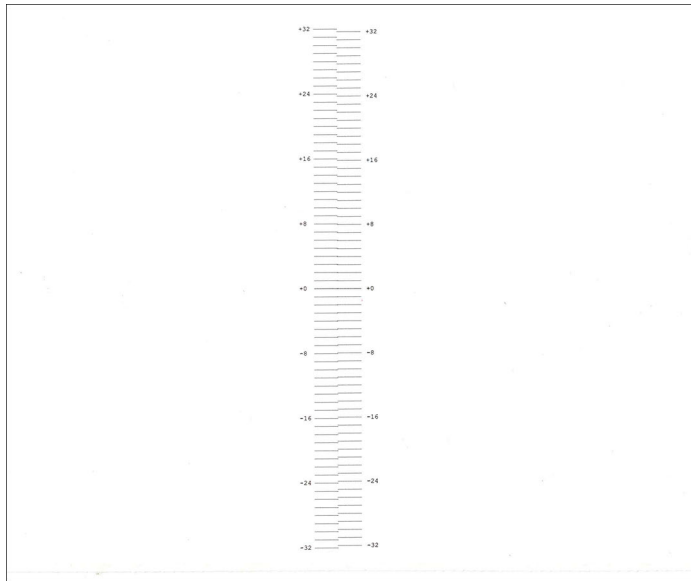


This window provides a coarse and fine alignment pattern. Start with the coarse adjustment and align the printheads as close as possible. Then use the fine adjustment for precision alignment.

- 5 Choose **Print Coarse Alignment Pattern**.



- 6 Use a magnifying glass or loupe to examine the pattern closely. Note if vertical adjustment is needed based on line alignment.
If the reference line (V) is aligned with zero, no adjustment is needed.
- 7 Enter the value that is aligned with the reference line (V) in the pattern. If the reference line is between values, visually estimate the measurement.
- 8 Choose **Save to Printer**. The vertical printhead alignment setting will be saved.
- 9 If finer vertical adjustments are needed after this coarse adjustment, choose **Print Fine Alignment Pattern**.



- 10 Use a magnifying glass or loupe to examine the pattern closely. Note if vertical adjustment is needed based on line alignment.
If the reference line (V) is aligned with zero, no adjustment is needed.
- 11 Enter the value that is aligned with the reference line (V) in the pattern. If the reference line is between values, visually estimate the measurement.
- 12 Choose **Save to Printer**. The vertical printhead alignment setting will be saved.

Setting up Standard Registration

The printer uses three groups of registration settings based on media widths.

- 192.7 mm (7.58 in) or larger
- 136.1 mm (5.36 in) to 192.6 mm (7.57 in)
- 136 mm (5.35) or less

Use the standard registration process to adjust color registration for all width groups at the same time.

This procedure applies cumulative adjustments to the existing registration settings. It does not allow direct editing of the registration settings. To view and modify registration settings directly, use the manual registration procedure. Setting up Manual Registration

- 1 Ensure that 8.35 x 6.1 in. (212 x 155 mm) media is loaded.
- 2 Launch the Kiaro! 200 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

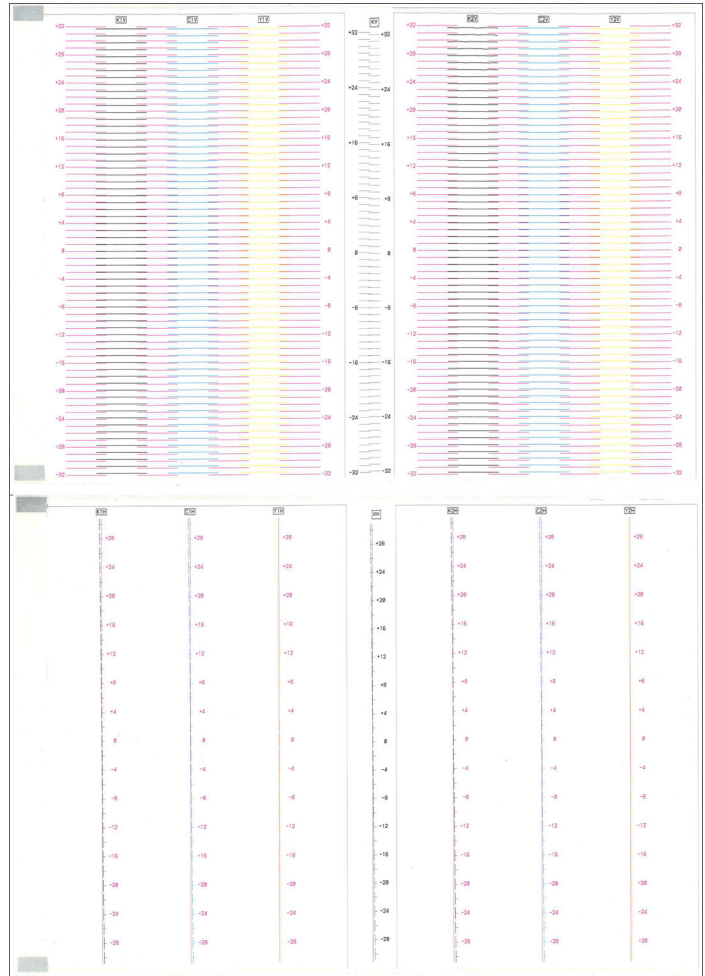
- 3 Choose the **Adjustments** tab.
- 4 Choose **Standard Color Registration**. The Color Registration window will open.

By default, all adjustment values will be set to zero, and the **Optimize for Dithering** option will be checked.

5 Choose **Print Registration Pattern**.

V

H

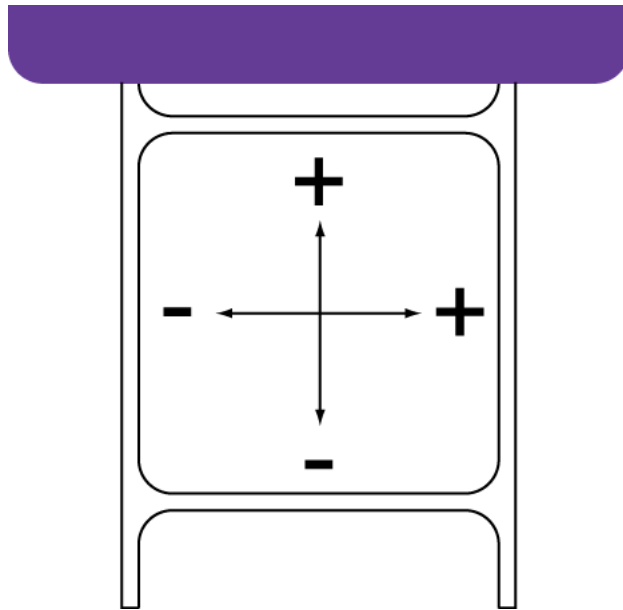


- 6 Use a magnifying glass or loupe to examine the patterns closely. The top pattern is used for vertical registration, and the bottom pattern is used for horizontal registration. Note if vertical or horizontal adjustments are needed based on color alignment.

- 7 Adjust the horizontal (H) and vertical (V) registration of each color. Enter this adjustment for the left (2) and right (1) printheads.

Magenta (M) is the reference color. Black (K), cyan (C), and yellow (Y) adjustments are made relative to magenta.

In the following illustration, a label is exiting the printer. Note the positive and negative adjustment directions.



- 8 Adjust the horizontal (KH) and vertical (KV) head-to-head registration for the printheads.
- 9 Select whether to optimize printhead adjustment for seam dithering.

The Kiaro! 200 uses two adjacent printheads to print wide format labels. These printheads overlap slightly near the center of the print area. In some label designs, a printing artifact may appear resulting from the line where both printheads overlap.

You can use the **Optimize for Dithering** option to reduce the appearance of the overlap artifact.

- If this option is selected, the adjustment values will be modified for dithering when you choose **Save to Printer**.
- If this option is not selected, the adjustment values will not be modified for dithering when you choose **Save to Printer**.

Note: Once this option is applied during standard registration, it should not be used for future adjustments. Applying the optimization again will result in the overlap adjustment being repeated unnecessarily.

- 10 Choose **Save to Printer**. The adjustments will be applied and the modified registration settings for each media width group will be saved.

***Note:** If accurate color registration cannot be achieved by these adjustments, you can use the Reference options to adjust the position of the reference color magenta. After adjusting the reference color, repeat the registration procedure.*

Setting up Manual Registration

The printer uses three groups of registration settings based on media widths.

- 192.7 mm (7.58 in) or larger
- 136.1 mm (5.36 in) to 192.6 mm (7.57 in)
- 136 mm (5.35) or less

Use the manual registration process to adjust color registration for each width group individually. This procedure is useful when you notice color registration differences based on the width of the labels being printed.

This procedure allows you to directly modify color registration settings. You can view a list of current registration settings on the printer settings test pattern. Printing a Test Pattern

- 1 Launch the Kiaro! 200 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

- 2 Choose the **Adjustments** tab.

- 3 Choose **Manual Color Registration**. The Color Registration window will open.

Color Registration

Width Bracket
Choose the width bracket you wish to adjust based on the Total Width (TW):

☒ 192.7 mm (7.58 in) or larger
☐ 136.1 mm (5.36 in) to 192.6 mm (7.57 in)
☐ 136 mm (5.35 in) or less

Head To Head Adjustments
These adjustments are cumulative and will modify the color to color offsets.

Vertical: 0 (Offsets the baseline of the left printhead)
Horizontal: 0 (Positive numbers bring the heads closer)

Save To Printer

Color To Color Adjustments
Do not use the Standard Registration Pattern to make these adjustments.

Printhead (Left)		Printhead (Right)			
	Horizontal	Vertical		Horizontal	Vertical
K	2	4	K	-3	0
C	2	4	C	-3	0
M	2	4	M	-3	0
Y	2	4	Y	-3	0

Read From Printer Save To Printer

Close

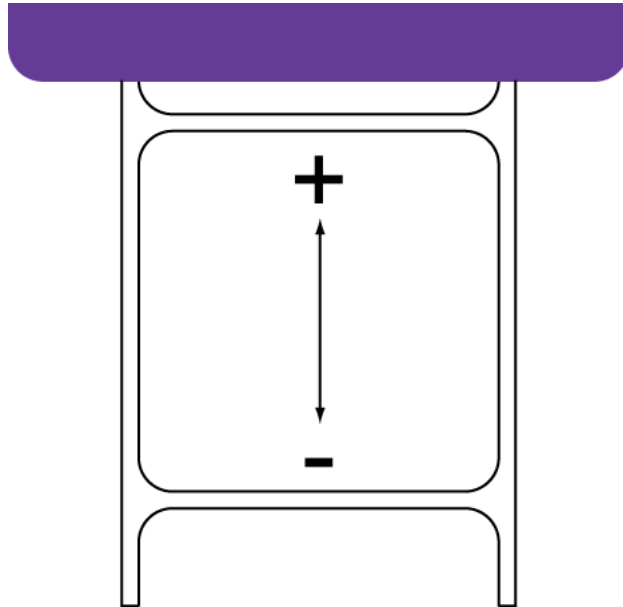
- 4 Manual registration can be adjusted for three media width groups, or brackets. Select the width bracket you will adjust.

These brackets are based on the total width (TW) of the media construction, including the narrow portions of exposed liner near the edges of the media.

When you select a bracket, the current settings for the bracket will be displayed in the Adjustments section.

5 Make head-to-head adjustments if necessary.

- **Vertical** - Use this adjustment to move the left printhead vertically relative to the right printhead. In the following illustration, a label is exiting the printer. Note the positive and negative adjustment directions for the left printhead relative to the right printhead.



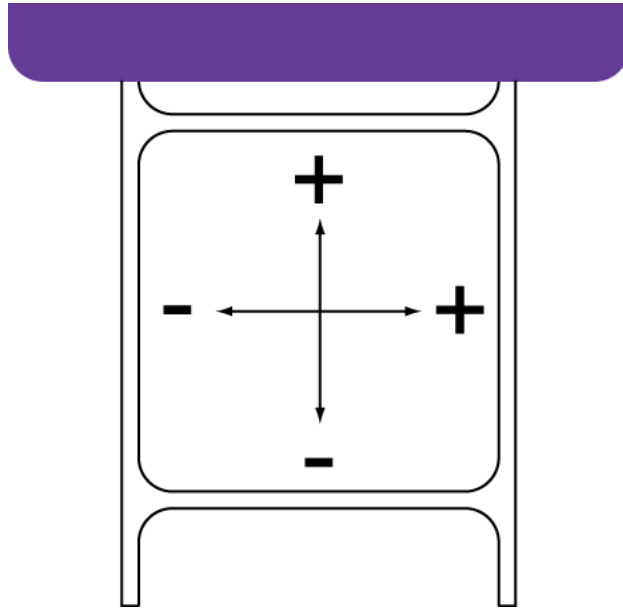
- **Horizontal** - Use this adjustment to move the left and right printheads horizontally relative to each other. Positive values move the printheads closer. Negative values move the printheads apart.

Choose **Save to Printer**. The head-to-head adjustments will be saved.

6 To read the color-to-color adjustment values from the printer and set the horizontal and vertical control accordingly, choose **Read From Printer**.

- 7 Adjust the horizontal and vertical registration of each color for the left and right printheads.

In the following illustration, a label is exiting the printer. Note the positive and negative adjustment directions.



- 8 Choose **Save to Printer**. The manual color registration settings will be saved.

Using the Slant Adjustment

The slant adjustment procedure adjusts the angularity of each color relative to the reference color (black). It ensures that all colors are parallel to black.

Note: The slant adjustment is rarely needed. Contact Technical Support for assistance with this procedure.

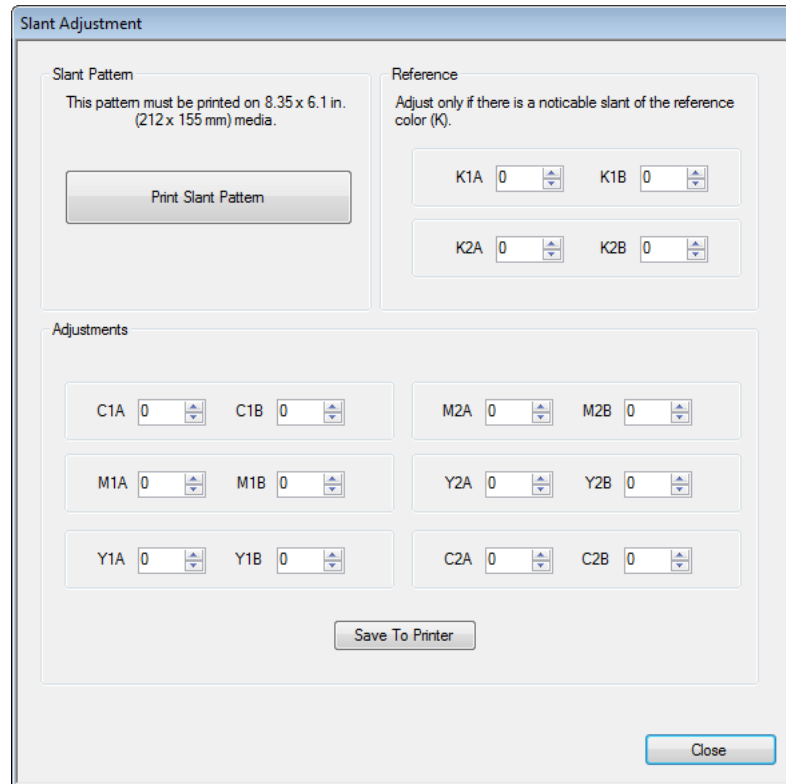
- 1 Ensure that 8.35 x 6.1 in. (212 x 155 mm) media is loaded.
- 2 Launch the Kiario! 200 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiario! 200 > Kiario! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiario! 200 printer you want to connect to. Choose **OK**.

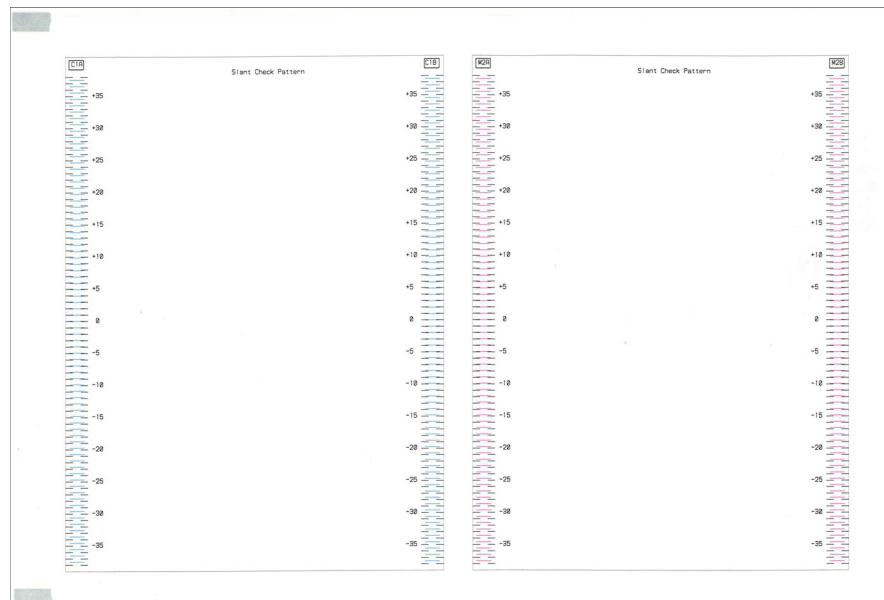
- 3 Choose the **Adjustments** tab.

- 4 Choose **Slant Adjustment**. The Slant Adjustment window will open.



The screenshot shows the 'Slant Adjustment' window. It has a title bar 'Slant Adjustment'. Inside, there are three main sections: 'Slant Pattern', 'Reference', and 'Adjustments'. The 'Slant Pattern' section contains a text box stating 'This pattern must be printed on 8.35 x 6.1 in. (212 x 155 mm) media.' and a 'Print Slant Pattern' button. The 'Reference' section contains a text box stating 'Adjust only if there is a noticeable slant of the reference color (K).' and four spinners labeled K1A, K1B, K2A, and K2B, each with a value of 0. The 'Adjustments' section contains eight spinners arranged in two columns: C1A, C1B, M2A, M2B, M1A, M1B, Y2A, Y2B, Y1A, Y1B, C2A, and C2B, all with a value of 0. At the bottom of the 'Adjustments' section is a 'Save To Printer' button. At the bottom right of the window is a 'Close' button.

- 5 Choose **Print Slant Pattern**.



- 6 Use a magnifying glass or loupe to examine the patterns closely. Note if slant adjustments are needed based on color alignment.

- 7 Adjust the slant of each color. Enter the best aligned values for both sides of the left (2) and right (1) printheads.

Black (K) is the reference color. Cyan (C), magenta (M), and yellow (Y) adjustments are made relative to black.

The printhead (left or right) is indicated after the color abbreviation for each pattern. The left printhead is indicated as 2, and the right printhead is indicated as 1. For example, C1A and C1B indicate the cyan patterns printed by the right printhead.

- 8 Choose **Save to Printer**. The slant adjustment settings will be saved.

***Note:** If accurate slant alignment cannot be achieved by these adjustments, you can use the Reference options to adjust the alignment of the reference color black. After adjusting the reference color, repeat the slant alignment procedure.*

Using the Missing Nozzle Adjustment

If a printhead nozzle is not functioning properly, you may notice small vertical lines of missing color on printed labels. If a nozzle is clogged, you can often resolve the issue using the cleaning functions.

If multiple cleanings do not resolve the issue, a nozzle may no longer be functioning. In this case, you can use the missing nozzle adjustment procedure to identify non-functioning nozzles. The printer will apply more ink from nozzles adjacent to non-functioning nozzles in an attempt to compensate for the missing nozzle.

***Note:** This adjustment works best when correcting an issue with a single nozzle. The adjustment is not recommended in situations with multiple consecutive non-functioning nozzles, or in situations with clogged nozzles.*

- 1 Ensure that 8.35 x 6.1 in. (212 x 155 mm) media is loaded.

- 2 Launch the Kiaro! 200 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

- 3 Choose the **Adjustments** tab.

- 4 Choose **Missing Nozzle Adjustment**. The Missing Nozzle Adjustment window will open.

The screenshot shows a software window titled "Missing Nozzle Adjustment". It is divided into two main sections: "Patterns" and "Adjustments".

Patterns Section:

- Text: "These patterns must be printed on 8.35 x 6.1 in. (212 x 155 mm) media."
- Buttons: "Print Missing Nozzle Adjustment Pattern" and "Print Confirmation Pattern".

Adjustments Section:

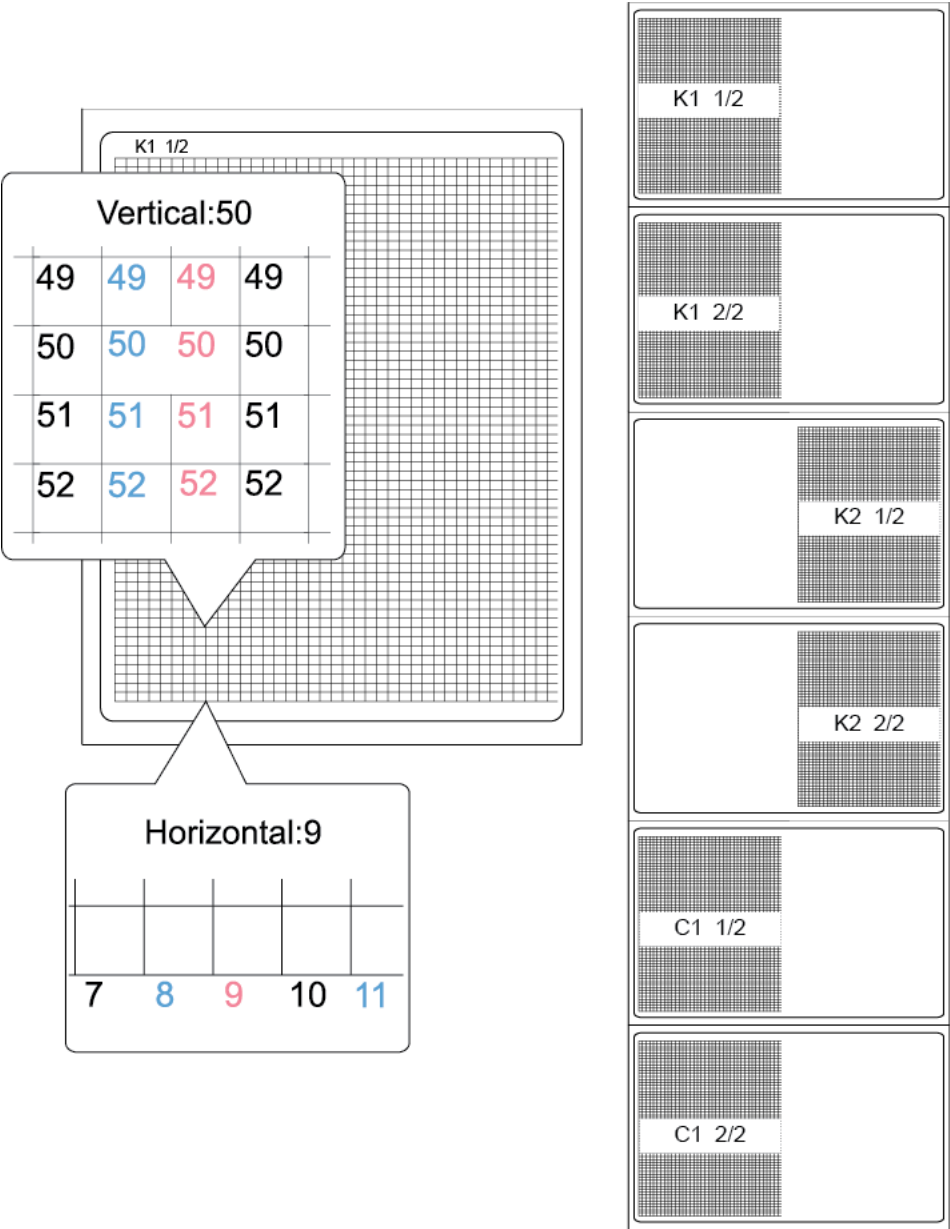
- Head:** A dropdown menu currently showing "K1".
- Instructions:** "To compensate for a missing nozzle select the page, row, and column for the selected head, and click 'Add To List'."
- Input Fields:** Three spinners for "Page:", "Row:", and "Column:", each currently set to "1".
- Buttons:** "Add To List", "Remove From List", and "Refresh List".
- Table:** A table with four columns: "Page", "Row", "Column", and "Nozzle". The table body is currently empty.
- Close Button:** A "Close" button is located at the bottom right of the window.

- 5 Choose **Print Missing Nozzle Adjustment Pattern**. The pattern will be printed.

- 6 Examine the pattern for missing lines within the grids. Note the locations of any missing lines for each color grid.

The printhead (left or right) is indicated after the color abbreviation for each pattern. The left printhead is indicated as 2, and the right printhead is indicated as 1. For example, K1 indicates the black pattern printed by the right printhead.

In the following example of the black pattern for the right printhead, the missing line is located in the vertical (x) coordinate of 50, and the horizontal (y) coordinate of 9 on the grid.



- 7 To read the adjustment list from the printer and populate the adjustment list accordingly, choose **Refresh List**.

8 Enter an adjustment for each missing line.

- **Head** - Select the color of the missing line and the affected printhead. In the previous example, a missing line appeared in the black pattern of the right printhead (K1).
- **Page** - Choose whether the missing line is on the first or second test page for the selected color. In the previous example, the missing line occurred on page one of the two-page black pattern.
- **Row** - Enter the row number of the missing line. In the previous example, the missing line occurred in row 50.
- **Column** - Enter the column number of the missing line. In the previous example, the missing line occurred in column 9.

Choose **Add to List** to add the missing line to the adjustment list. Repeat this process for all missing lines.

- 9** If necessary, you can delete items from the adjustment list by selecting the item and choosing **Remove from List**.
- 10** When you are finished entering adjustments, choose **Print Confirmation Pattern**. The pattern will be reprinted, but with your adjustments applied. Examine the pattern to ensure the missing lines you entered now appear correctly.
- 11** Choose **Close** when you are finished entering missing nozzle adjustments.

Related Topics:

- [Cleaning Printheads on page 61](#)

Adjusting the Top-of-Form Threshold

If any of the following errors occur while using reflective mark media, you may need to calibrate the top-of-form sensor threshold. The following table describes the types of adjustments needed for each error condition.

Error #	Error Name	Sensor Adjustment		Adjustment Value
		Internal	Cutter	
1002	No paper	Increase	NA	+0.2V
1102	Paper length is too short	Increase	NA	+0.2V
1104	Paper length is too short	NA	Increase	+0.2V
1301	Paper jam occurred	Decrease	NA	-0.2V
1302	Paper jam occurred	Decrease	NA	-0.2V
1304	Paper jam occurred	NA	Increase	+0.2V
1305	Paper jam occurred	NA	Decrease	-0.2V
1306	Paper jam occurred	NA	Increase	+0.2V
130C	Paper jam occurred	Increase	NA	+0.2V
1402	Gap/Mark width error	Decrease	NA	-0.2V
1403	Gap/Mark width error	Increase	NA	+0.2V

Note: Before adjusting the top-of-form threshold, verify that your media has been loaded and configured correctly.

If you have already adjusted the top-of-form threshold for your reflective mark media, and you are replacing a reflective mark media roll with an identical roll, repeating this adjustment is not necessary.

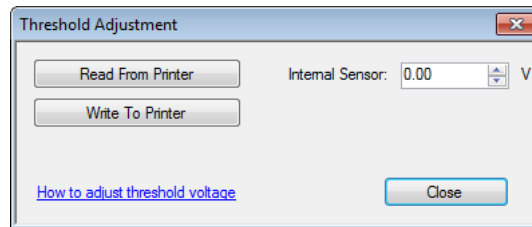
- 1 Launch the Kiaro! 200 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

- 2 Choose the **Adjustments** tab.

- 3 Choose **TOF Threshold Adjustment**. The Threshold Adjustment window will open.



- 4 To read the internal sensor value from the printer and set the **Internal Sensor** control accordingly, choose **Read From Printer**.
- 5 Enter an adjustment based on the error message table above.
- 6 Choose **Write to Printer**. The threshold settings will be saved.

Related Topics:

- Turning On Auto-Calibration on page 81

Turning On Auto-Calibration

If the top-of-form sensor threshold has been adjusted in the Threshold Adjustment window, the printer will use the adjusted calibration value.

Use the auto-calibration feature to disable this adjustment and return the printer to the default automatic calibration mode.

- 1 Launch the Kiaro! 200 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

- 2 Choose the **Adjustments** tab.
- 3 Choose **Turn Auto-Calibration On**. Top-of-form sensor threshold adjustments will be cleared and automatic calibration will be enabled.

Related Topics:

- Adjusting the Top-of-Form Threshold on page 80

Adjusting the Density

Use this adjustment if you notice color density differences between the areas printed by each printhead.

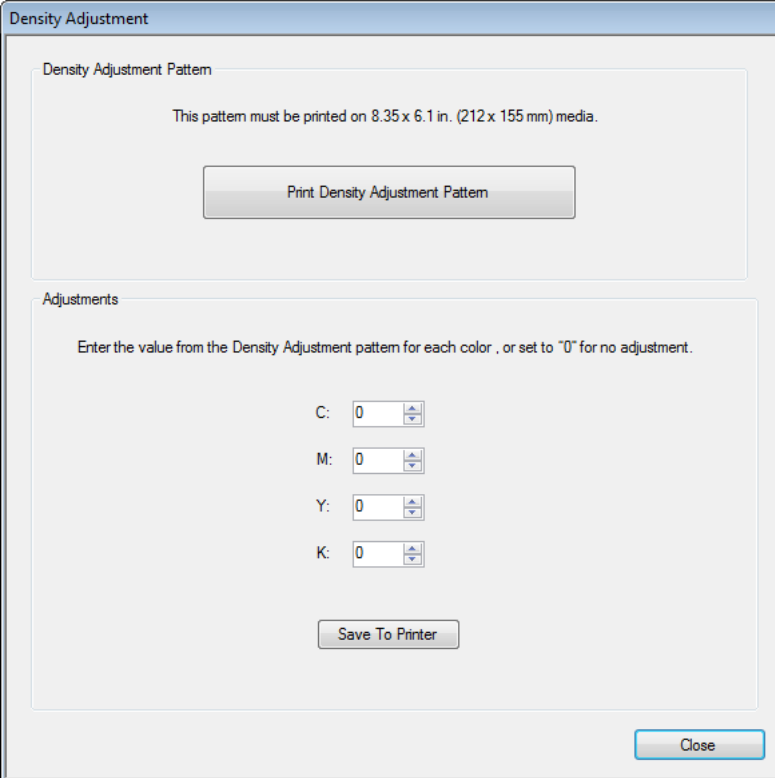
- 1 Ensure that 8.35 x 6.1 in. (212 x 155 mm) media is loaded.

- 2 Launch the Kiaro! 200 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

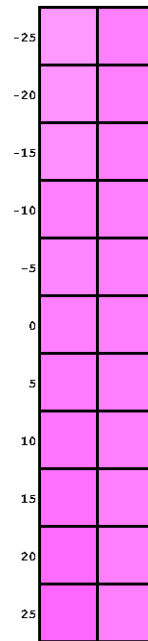
Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

- 3 Choose the **Adjustments** tab.
- 4 Choose **Density Adjustment**. The Density Adjustment window will open.



The screenshot shows the 'Density Adjustment' window. It has a title bar with the text 'Density Adjustment'. Inside, there are two main sections. The top section is titled 'Density Adjustment Pattern' and contains the text 'This pattern must be printed on 8.35 x 6.1 in. (212 x 155 mm) media.' Below this text is a button labeled 'Print Density Adjustment Pattern'. The bottom section is titled 'Adjustments' and contains the text 'Enter the value from the Density Adjustment pattern for each color , or set to "0" for no adjustment.' Below this text are four color adjustment controls: 'C:', 'M:', 'Y:', and 'K:'. Each control consists of a text box containing the number '0' and a small up/down arrow button. Below these controls is a button labeled 'Save To Printer'. In the bottom right corner of the window is a button labeled 'Close'.

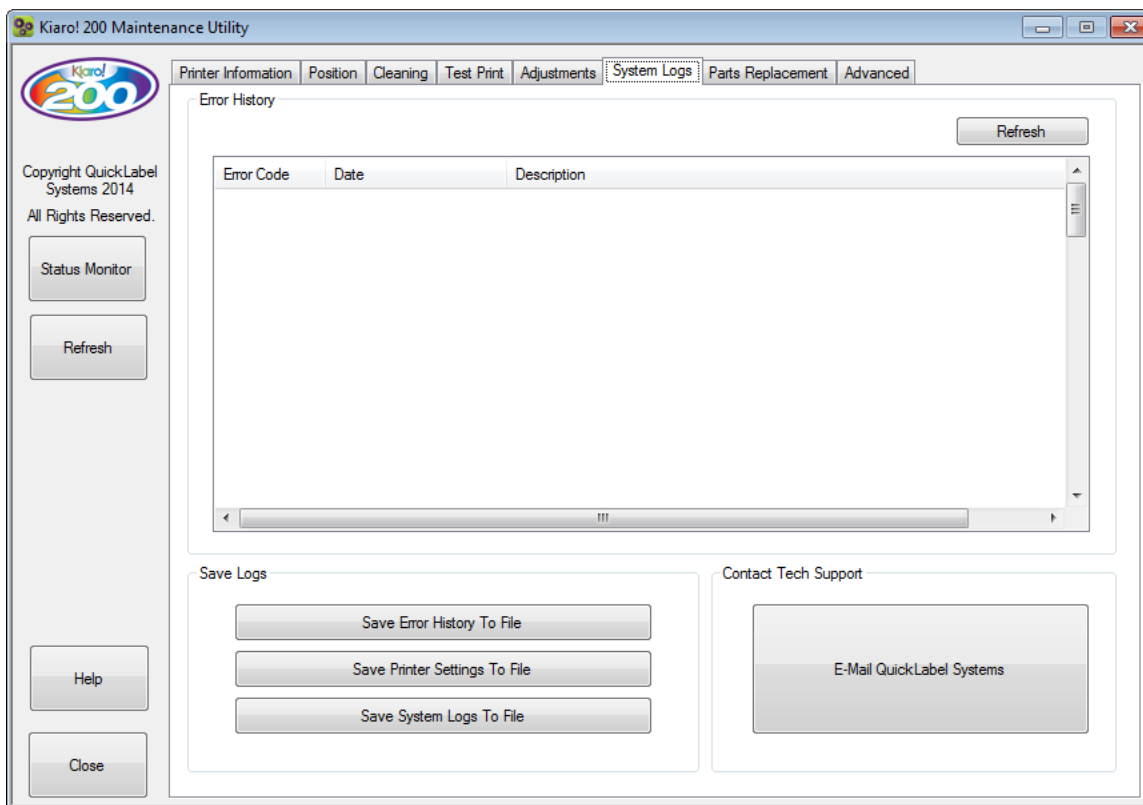
- 5 Choose **Print Density Adjustment Pattern**. A density pattern for each color will be printed. The left/right color pairs in this pattern allow you to compare densities for each printhead.



- 6 Use a magnifying glass or loupe to examine the pattern closely. Determine the best matched left/right pair of colors and note the adjustment value.
- 7 Enter the adjustment value for each color in the Density Adjustment window.
- 8 Choose **Save to Printer**. The density adjustment settings will be saved.

System Logs Tab

Use the **System Logs** tab to view the error history and save log files. It also provides a convenient way to e-mail QuickLabel Support.



Viewing the Error History

- 1 Launch the Kiaro! 200 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

- 2 Choose the **System Logs** tab.
- 3 Use the scroll bars to browse the error history of the printer.
- 4 To refresh the error list, choose **Refresh**.

Saving Log Files

- 1 Launch the Kiaro! 200 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

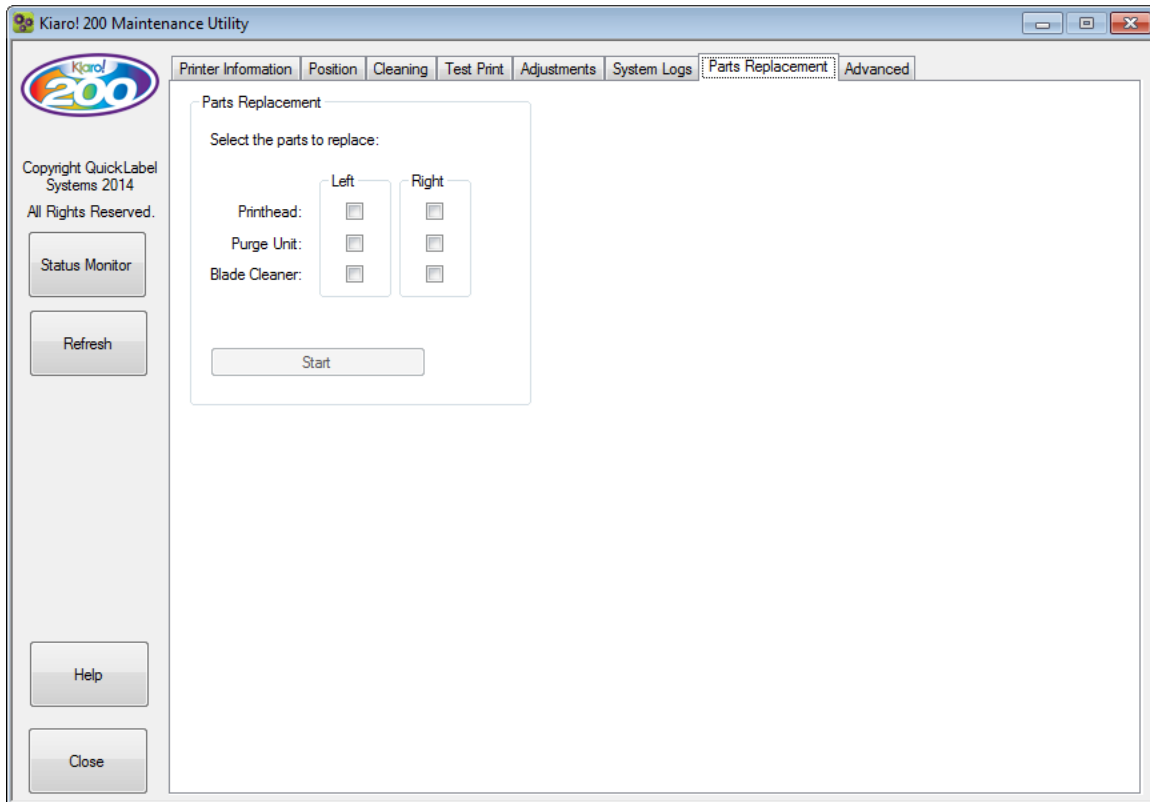
Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

- 2 Choose the **System Logs** tab.
- 3 Choose the type of log you want to save.
 - **Save History to File** - Choose this option to save the error history to a text file on your PC.
 - **Save Printer Settings to File** - Choose this option to save the printer's registration, consumable levels, and other settings to a text file on your PC.
 - **Save System Logs to File** - Choose this option to save the system logs to a file on your PC. System logs contain detailed technical information that will be useful only to QuickLabel Support. These files are not intended for user analysis.

After the log file is created, a message will appear indicating the log was created successfully.

Parts Replacement Tab

Use the **Parts Replacement** tab to replace printheads, purge units, and blade cleaners.



Replacing the Printhead Assembly

Use the following procedure to replace the printhead assembly. This process will replace the printhead for each color.

Note: Wear protective gloves to prevent ink from staining your hands during this procedure.

- 1 Launch the Kiaro! 200 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

- 2 Choose the **Parts Replacement** tab.
- 3 Select **Printhead**. Choose whether to replace the left and/or right printhead.
- 4 Choose **Start**. Follow the on-screen instructions to complete this procedure.

Replacing the Purge Unit

Use the following procedure to replace the purge unit.

Note: *Wear protective gloves to prevent ink from staining your hands during this procedure.*

- 1 Launch the Kiaro! 200 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

- 2 Choose the **Parts Replacement** tab.
- 3 Select **Purge Unit**. Choose whether to replace the purge unit from the left and/or right print module.
- 4 Choose **Start**. Follow the on-screen instructions to complete this procedure.

Replacing the Blade Cleaner

Use the following procedure to replace the blade cleaner.

Note: *Wear protective gloves to prevent ink from staining your hands during this procedure.*

- 1 Launch the Kiaro! 200 Maintenance Utility.

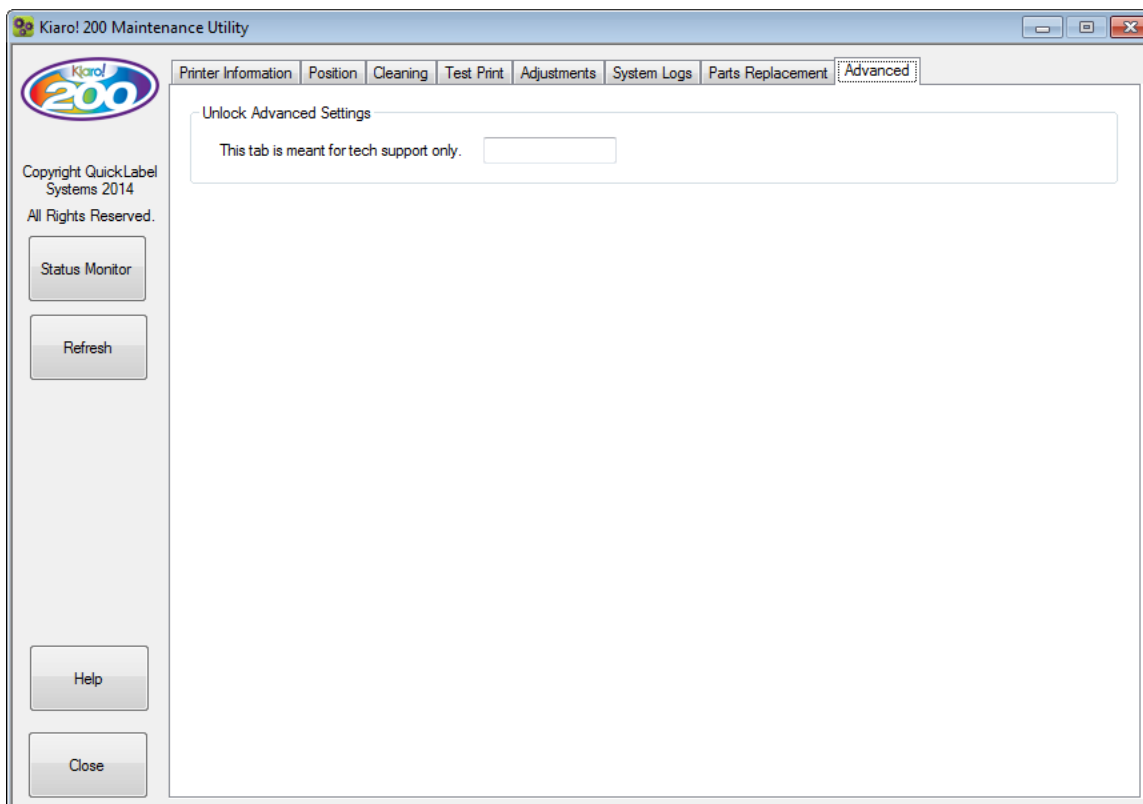
From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

- 2 Choose the **Parts Replacement** tab.
- 3 Select **Blade Cleaner**. Choose whether to replace the blade cleaner from the left and/or right print module.
- 4 Choose **Start**. Follow the on-screen instructions to complete this procedure.

Advanced Tab

The **Advanced** tab is reserved for use only by Technical Support.



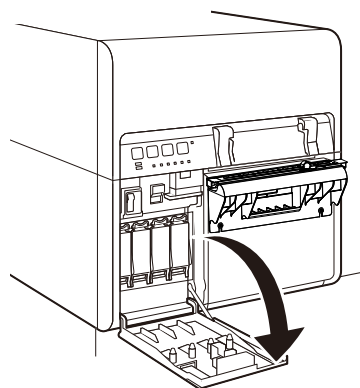
Replacing Ink Tanks

When the remaining ink level becomes low, a low ink message will be displayed on the Status Monitor to notify you that the corresponding ink tank will soon be out of ink. When an ink tank is out of ink, an out of ink message will be displayed and printing will stop.

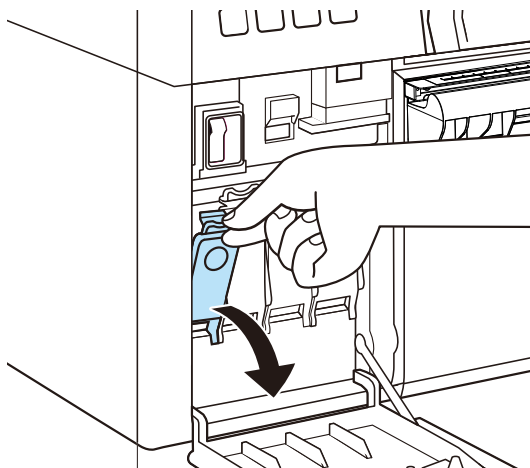
The printer has four ink tanks: black (Bk), cyan (C), magenta (M), and yellow (Y). Confirm the message displayed on the Status Monitor and replace the appropriate ink tank.

Warning: For safety, keep ink tanks out of the reach of children. If ink is accidentally ingested, contact a physician immediately.

- To maintain printhead quality, the printer stops operating before it is completely out of ink. Therefore, a small amount of ink remains in the ink tank to be replaced.
 - To get good printing results, use up each ink tank within six months of opening the package.
 - Do not remove an ink tank unless you must replace it. This could shorten the life of the consumables. Ink tanks are only guaranteed for five re-punctures.
 - Complete the ink tank replacement procedure as quickly as possible. Do not leave the printer with ink tanks removed.
 - An ink tank left in a high-temperature place can deform. However, there is nothing wrong with its functions. It is recommended that ink tanks be stored where temperature does not rise extremely.
 - Be careful not to stain your clothes or the surrounding area by the used ink tank.
- I Open the ink tank door.



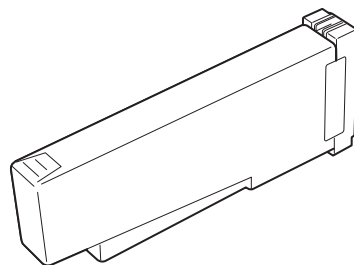
- 2 Open the ink tank lever while pushing it downward.



- 3 Remove the empty ink tank.



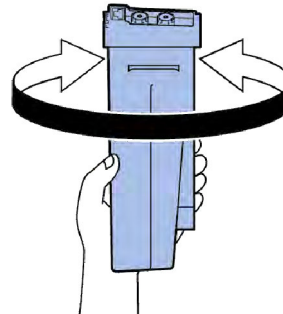
- 4 Take out the ink tanks from the package. Then remove the packing materials.



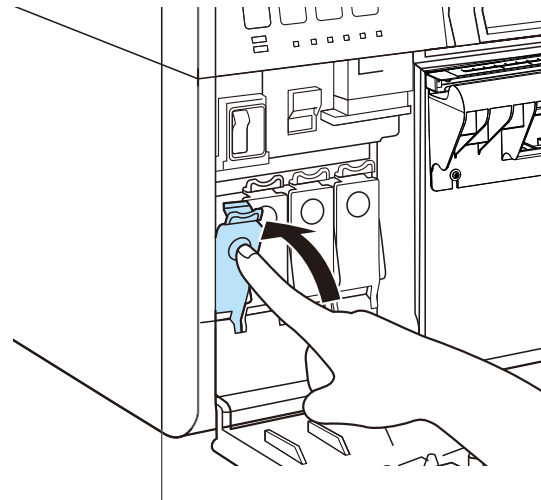
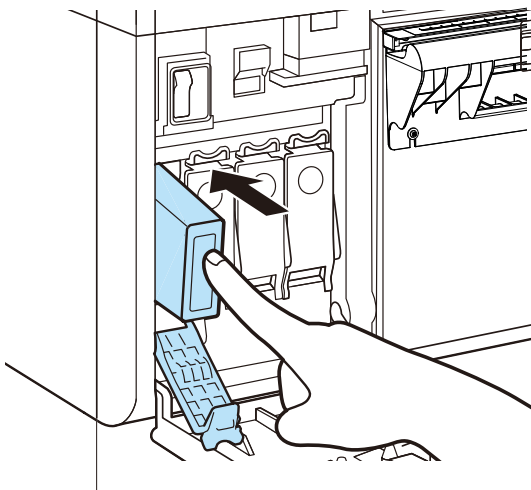
Do not touch the ink outlet and terminal to prevent soiling of the surrounding work area, damage to the ink tank, and poor printing. Never drop or apply excessive force to an ink tank.

- 5 If you are using the Kiaro! 200D printer, rotate the ink tank to stir the ink.

Note: This step applies only to the Kiaro! 200D ink. If you are using the standard Kiaro! 200, skip this step.



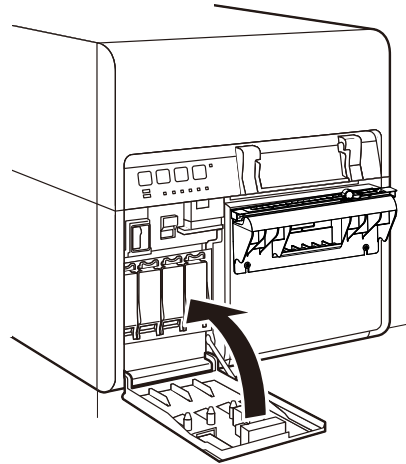
- 6 Slowly insert the ink tank as far as it will go, and then close the ink tank lever.



Caution: There are sharp pins in the ink tank slot. Never put your fingers in this area.

Note: The printer is designed so that ink tanks cannot be inserted in wrong ink tank slots. Do not attempt to insert ink tanks in wrong ink tank slots forcibly.

- 7 Close the ink tank door.



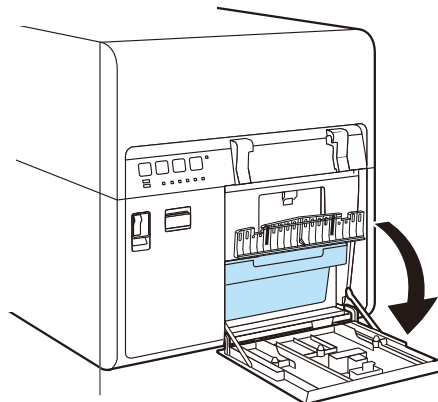
- 8 Dispose of the old ink tank according to federal, state, and local laws after packing it in a plastic bag and placing the bag in the box.

Replacing the Maintenance Cartridge

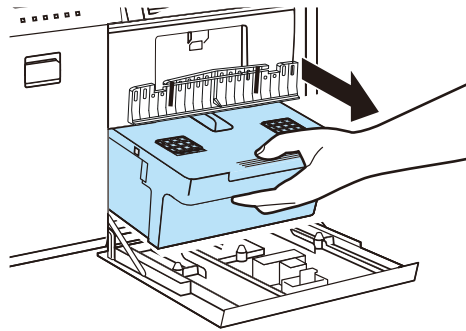
When the maintenance cartridge is filled with the collected ink, the message “Maintenance cartridge full error” is displayed in the Status Monitor and the printer stops.

Note: For safety, keep the maintenance cartridge out of the reach of children. If ink is accidentally ingested, contact a physician immediately.

- To prevent ink from leaking from a used maintenance cartridge, avoid dropping the cartridge or storing it at an angle. Otherwise, ink may leak and cause stains.
 - Ink adheres to the top of the maintenance cartridge after it has been used. Handle the maintenance cartridge carefully during replacement. The ink may stain clothing.
- 1 Open the maintenance cartridge door.

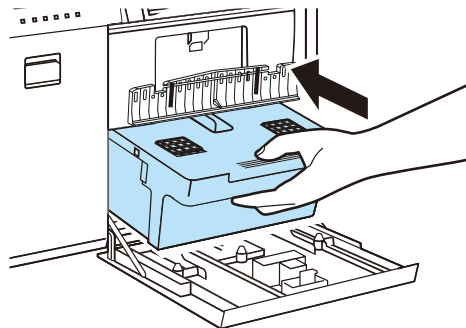


- 2 Draw out the maintenance cartridge slowly.

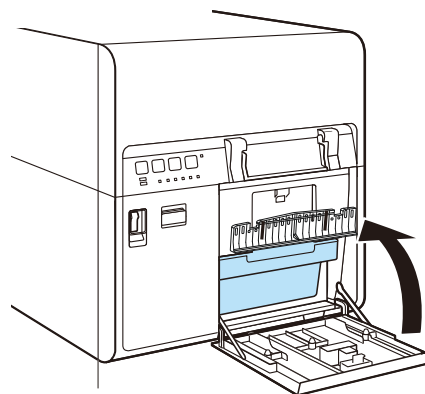


When removing the maintenance cartridge full of ink, take care not to incline or drop it. The spilled or scattered ink may stain the floor or clothing.

- 3 Insert a new maintenance cartridge.



- 4 Close the maintenance cartridge door.



The error message on the Status Monitor will disappear, and printing will start.

- 5 Dispose of the old maintenance cartridge according to federal, state, and local laws after packing it in a plastic bag and placing the bag in the box.

Cleaning the Printer

As the printer is used, ink and paper dust will be collected inside the printer. Over time, this accumulation may result in decreased print quality and media feeding issues. Clean the printer periodically to keep the printer in optimum working condition.

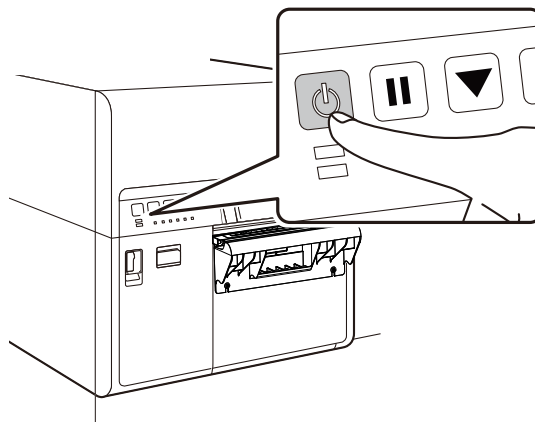
Moisten a clean cloth in a mild solution of water and detergent, wring it out thoroughly, then use it to clean the exterior covers of the printer.

Warning: Use only a slightly damp cloth, thoroughly wrung out, to clean the printer interior. Never use alcohol, thinner, benzene, or any other flammable liquids. This could cause a fire or serious electrical shock.

Caution: Before cleaning the printer, switch it off and disconnect the power plug from the power source. This can prevent personal injury or damage to the printer if you make a mistake during cleaning.

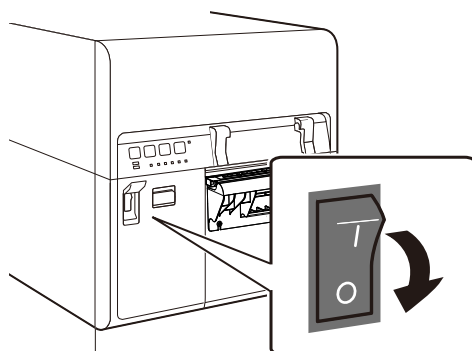
Caution: There are four sharp pins inside the ink tank slots. Never put your fingers into this area. This could cause personal injury or damage to the printer.

- I Press the power key for at least one second.

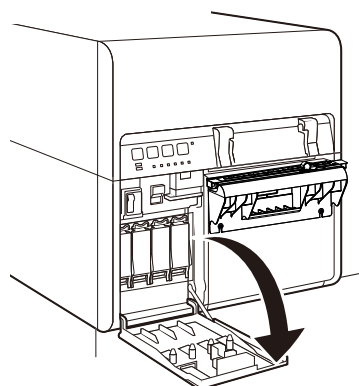


The Power LED will blink at long intervals, and then the printer will enter sleep mode.

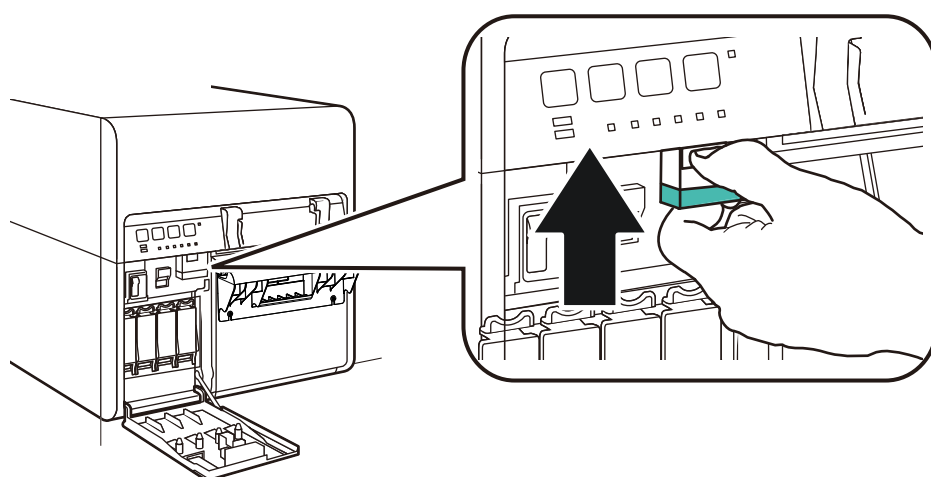
- 2 Turn off the power switch, and then remove the power plug from the wall outlet.



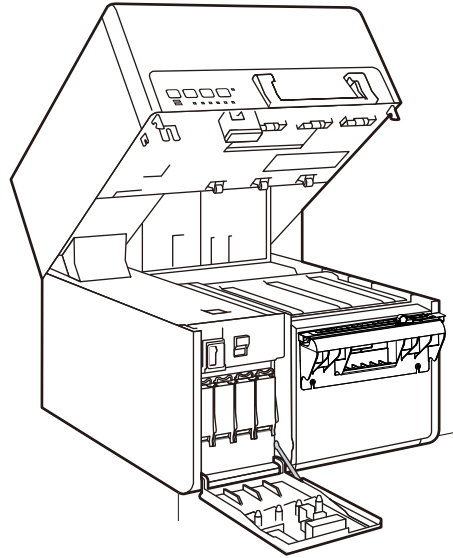
- 3 Open the ink tank door.



- 4 Push the upper unit release lever up to open the upper unit.

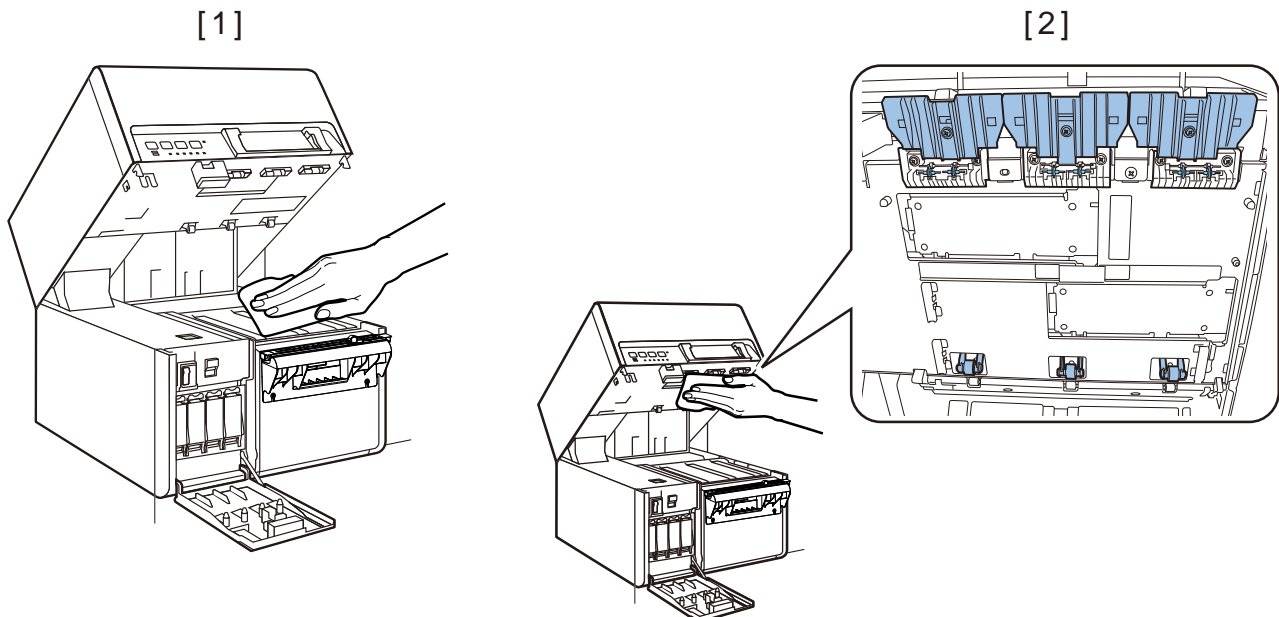


- 5 Open the upper unit.



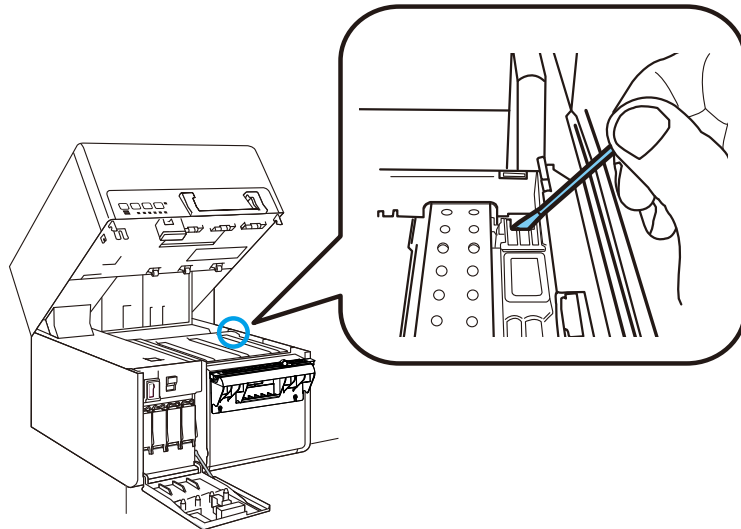
Note: Never attempt to open the upper unit by force or hit the door. This could damage the printer or result in poor print quality. Always open and close the upper unit slowly.

- 6 Wipe off ink, dust, and paper dust adhered around the transport unit and upper unit bottom areas (spur, roller, media ejection slot) with a cloth dipped in water and tightly wrung out. The transport unit [1] and upper unit bottom areas [2] are illustrated below.

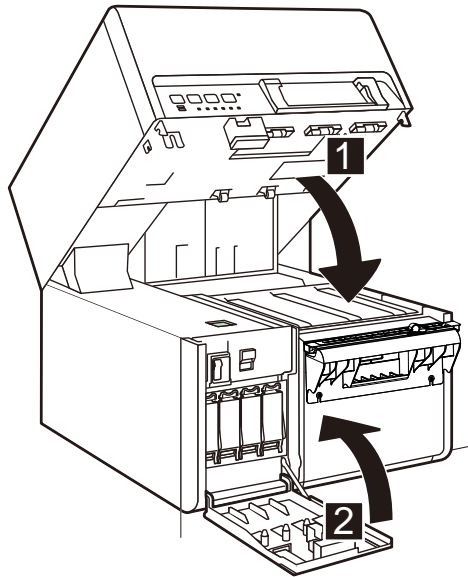


Note: Do not clean with tissues or paper towels. Torn pieces of paper or paper dust may get inside printer and cause malfunctions.

- 7** If the “Paper length error” or “Paper jam error” occurred and an error message is continuously displayed, the paper detection area may be soiled with paper dust. Clean the area with a cotton swab.



- 8** Close the upper unit and then close the ink tank door.



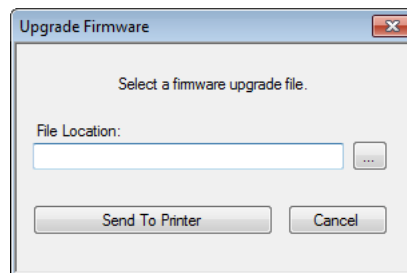
Upgrading the Printer Firmware

- 1 Ensure a Kiaro! 200 Firmware file (*.udf) is accessible from your PC.
- 2 Launch the Kiaro! 200 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel Kiaro! 200 > Kiaro! 200 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the Kiaro! 200 printer you want to connect to. Choose **OK**.

- 3 Choose the **Printer Information** tab.
- 4 Choose **Update Firmware**. The Upgrade Firmware window will open.



- 5 Choose the **...** button. Browse to the Kiaro! 200 Firmware file (*.udf) and choose **Open**.
- 6 Choose **Send to Printer**.

A progress indicator will be displayed and the printer firmware will be upgraded. When this process is complete, the printer will restart automatically.

6

Troubleshooting

Error and Warning Messages

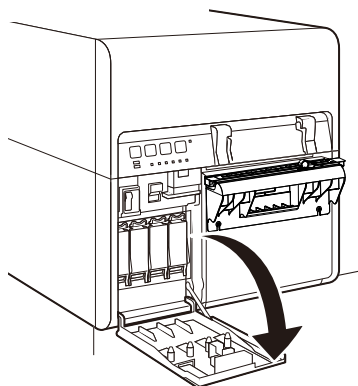
Operator Call Error Messages

Error Messages	Problem	Solution
Upper unit open	The upper unit is open.	Close the upper unit.
Ink tank door open	The ink tank door is open.	Close the ink tank door.
Maintenance cartridge door open	The maintenance cartridge door is open.	Close the maintenance cartridge door.

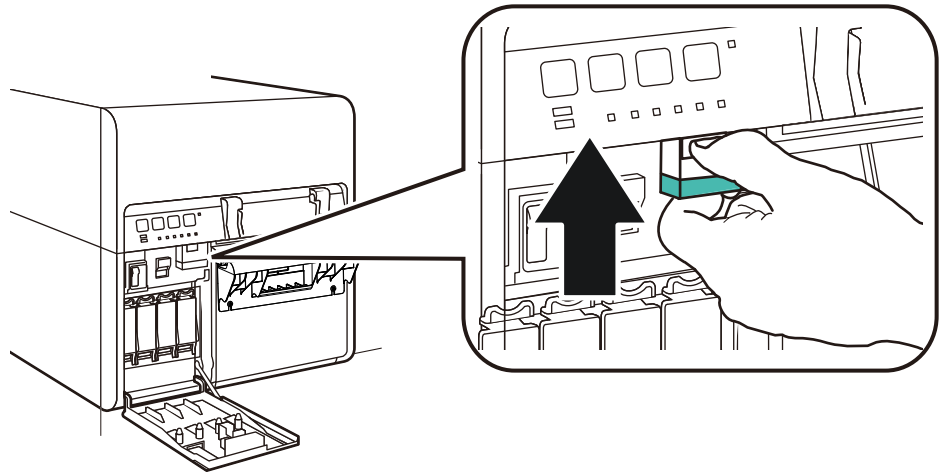
Removing a Paper Jam

If a paper jam occurs during printing, an error message will be displayed and printing will be suspended.

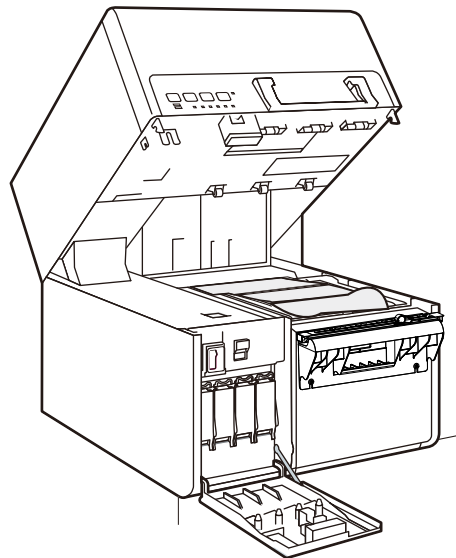
- 1 Open the ink tank door.



- 2 Push the upper unit release lever up to open the upper unit.



- 3 Remove the media jammed on the transport unit.



- 4 Cut the media before the jam.
- 5 Reload the label media.

Printer Not Operating Correctly

Power Off

Check Point	Solution
Main power switch is at the off position.	Press main power switch to the on position.
Printer power cord unplugged.	Make sure that the power cord is plugged in completely.
Power supply not providing power.	Connect another device to the power supply to confirm that the outlet is providing power. If you cannot restore the printer to normal operation, contact QuickLabel Support.

Printer Does Not Start or Printer Stops During Print Jobs

Check Point	Solution
Upper unit, ink tank door, or maintenance cartridge door open.	Close the upper unit, ink tank door, or maintenance cartridge door and ensure it is closed tightly.
Printer is not connected to the computer.	Check the USB cable and make sure that it is connected to the printer and the computer.
Media is not loaded correctly.	Load media correctly.
The ink tanks are not installed correctly.	Check the ink tanks and make sure that they are installed correctly.
The printer driver is not selected on the computer.	Make sure that the Kiaro! 200 printer is selected when you start the print job.
Print data contains an image with a large capacity.	If you see the STATUS LED flashing, this means data is processing. Wait for the processing to finish.
The printer has been printing for a long period.	If the printer prints for a long period the printhead may overheat. To protect the printhead, the Status Monitor will display a printhead overheated message and stop the print job. Just wait for the printhead to cool down.

Check Point	Solution
The print destination port setting is wrong.	<p>Open the printer driver Properties and make sure that the port setting is correct. If the port setting is not correct, shut down Windows, switch off the computer, then reconnect to the selected port. Follow the procedure below to check the port setting.</p> <p>Open the printer driver Properties window and then click the Ports tab. If you are using a USB connection, make sure that USBnnn (nnn represents numbers) is selected for the port setting.</p>
The problem is occurring on the computer.	Shut down the computer and switch it on again. Then try to print. Be sure to cancel the print job if it remains after the computer is restarted.

Paper is Not Feeding Correctly

Check Point	Solution
Media loaded with the right side up.	Load media so that the black mark is located at the right leading edge on the back side of the printing media.
The edge of the paper is folded or curled.	If the leading edge of the paper is folded or curled, it will not feed correctly. This could also cause a media jam.
The transport unit is dirty.	If the unit is covered with paper dust or ink residue, paper jams and other problems may occur. Clean the printer periodically.

Status Monitor Does Not Start

Check Point	Solution
The Status Monitor setting is incorrect.	With some Status Monitor settings, printer errors will not be displayed and the Status Monitor will not start. Open the printer driver Status tab and then click Status Monitor. Set the details after the Status Monitor starts.

Print Results are Unsatisfactory

Random Characters are Printed

Check Point	Solution
An interface cable is disconnected.	Check the interface cable and make sure that it is connected to the printer and the computer.
The printer driver is not selected on the computer.	Make sure that the Kiaro! 200 printer is selected when you start the print job.

Slow to Print

Check Point	Solution
Print speed is set to a lower speed.	Set the print speed in the Layout tab of the printer driver or in Custom Quick-Label Omni. Auto print speed is recommended.

Print Quality is Poor

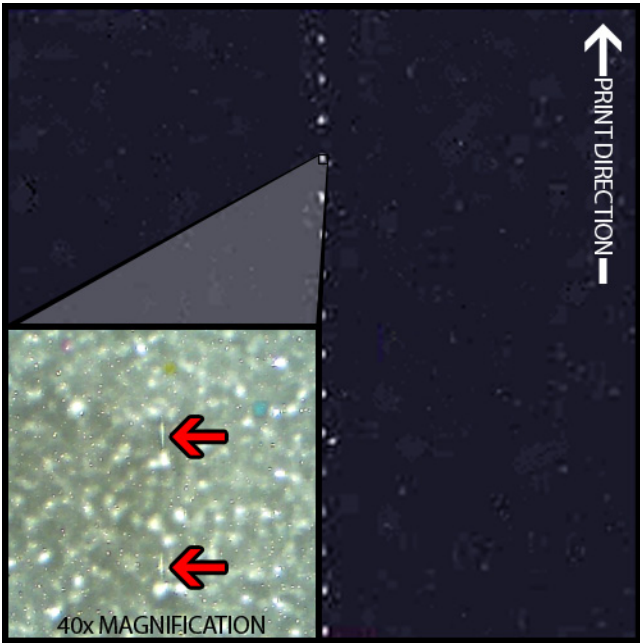
Check Point	Solution
Streaks appear on the printout.	Open the Cleaning tab of the Maintenance Utility and perform cleaning. If the problem persists after performing cleaning, contact QuickLabel Support.
White spots due to missing colors.	Open the Cleaning tab of the Maintenance Utility and perform cleaning. If the problem persists after performing cleaning, contact QuickLabel Support.
Printout is faint.	Open the Cleaning tab of the Maintenance Utility and perform cleaning. If the problem persists after performing cleaning, contact QuickLabel Support.
Misalignment of colors appears.	Open the Adjustment tab of the Maintenance Utility and perform registration.

Printed Colors Appear Incorrect

Check Point	Solution
Wrong colors are printed. Image is too bright or too dark. Image is faint. Image is too pale or too dark.	Check the image in your design application. If necessary, make adjustments in the Advanced Color Settings window.

Print Samples and Solutions

Spur Gear Mark



Description

Spur gears are located in several locations throughout the transport assembly. They help keep the media flat to avoid jamming during printing and ensure the media receives the ink correctly.

Causes

As media passes through the transport assembly, these gears come into contact with the surface of the label material.

Possible Solutions

Clean the spur gears with a slightly damp lint-free cloth and let air-dry before use.

Background Pattern



Description

Often called “Keep Alive Dots”, this ink is sprayed in the background to prevent nozzles from clogging when not in constant use.

Cause

As media passes through the transport assembly, nozzles that are not firing based on the position and the label content being printed will fire the smallest amount of ink possible based on a built-in algorithm.

Possible Solutions

A solution is not applicable because the pattern is normal.

Printhead Not in Correct Position



Description

Printed output does not resemble specified label content, but rather abstract patterns of ink with varying ink dispersion.

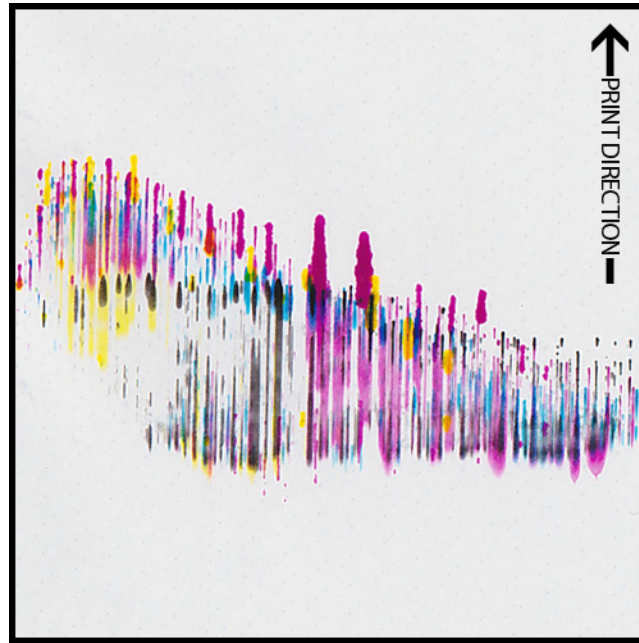
Cause

The print module is obstructed and did not fully lower into a printing position. The distance between the media and the printheads will produce abstract printed output.

Possible Solutions

Contact Technical Support.

Media Contacting Printheads



Description

Streaks of CMYK appear down-web, bleeding at various points, indicating a smearing.

Cause

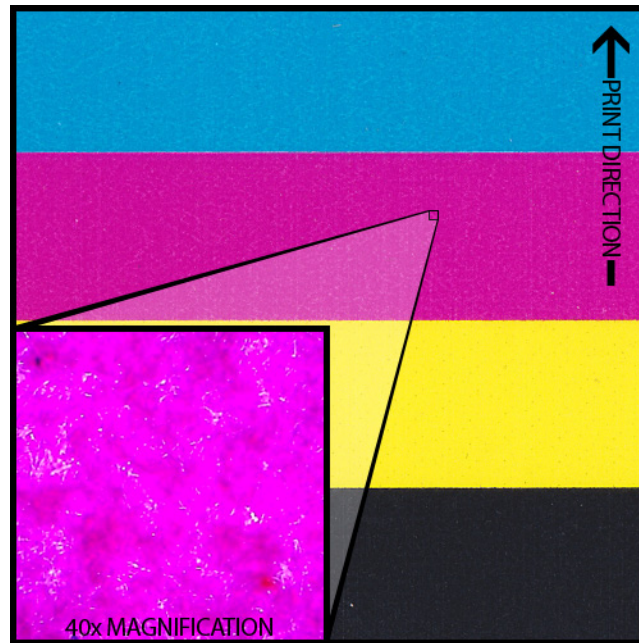
Media is physically coming into contact with the printhead surfaces as it passes through the transport assembly.

Possible Solutions

Reload the media, ensuring it is perfectly aligned and the media guides are not causing wrinkling.

Inspect the roll of media for defects.

Poor Print Quality



Description

Severe mottled look across the printable web. Ink unable to be absorbed further. Ink may exhibit signs of cracking across the top of the media.

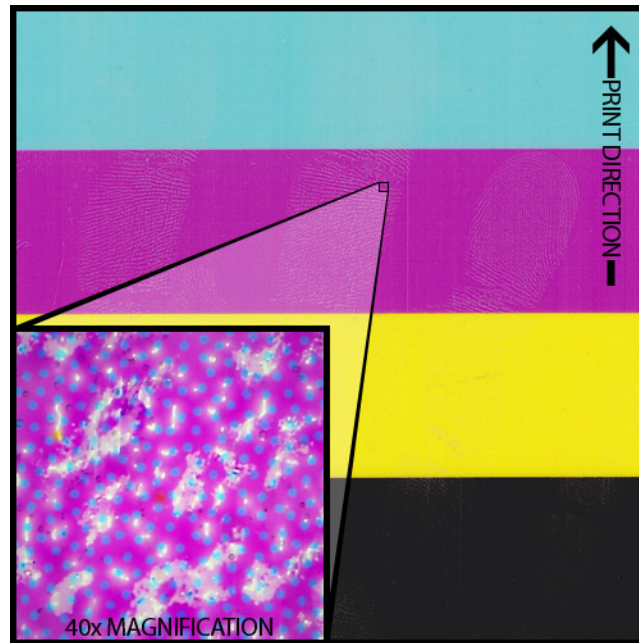
Cause

Using unapproved media type or using wrong media profile.

Possible Solutions

Use approved media or the correct media profile.

Media Surface Contamination



Description

Fingerprints or other marks related to handling the media before printing are visible after the label has been printed.

Cause

Contaminants on the label surface can cause undesirable defects or anomalies because it interferes with the absorption of ink into the media.

Possible Solutions

Handle the media with care.

Scuffing of Surface Material



Description

Light reflecting off the surface of the printed labels highlights the various scuff marks, scratches, dull and/or mottled area of the label material.

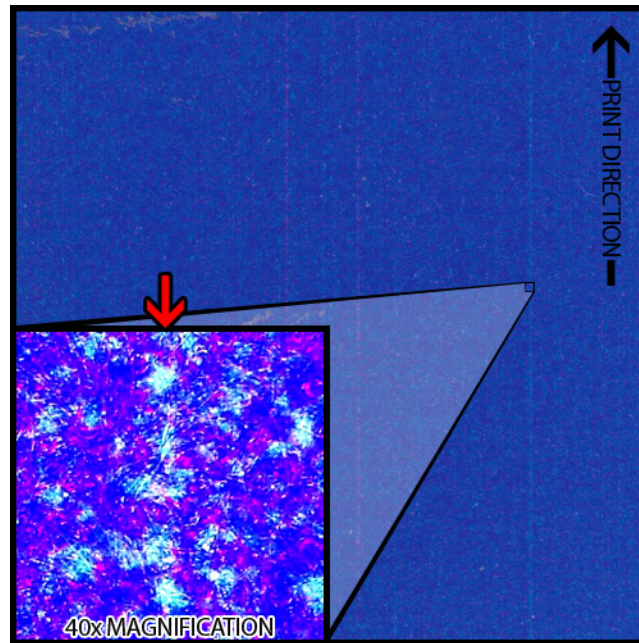
Cause

Inherent flaws in the surface of a media can become more visible after printing solid color fills.

Possible Solutions

Try using a rewinder with a dancer-arm, as this helps ensure the media is as flat and moves as smoothly as possible.

Non-Functioning Nozzle



Description

A very thin vertical line in the printed output appears in the print direction, but is only lighter overall than it is supposed to be, not completely absent of color.

Cause

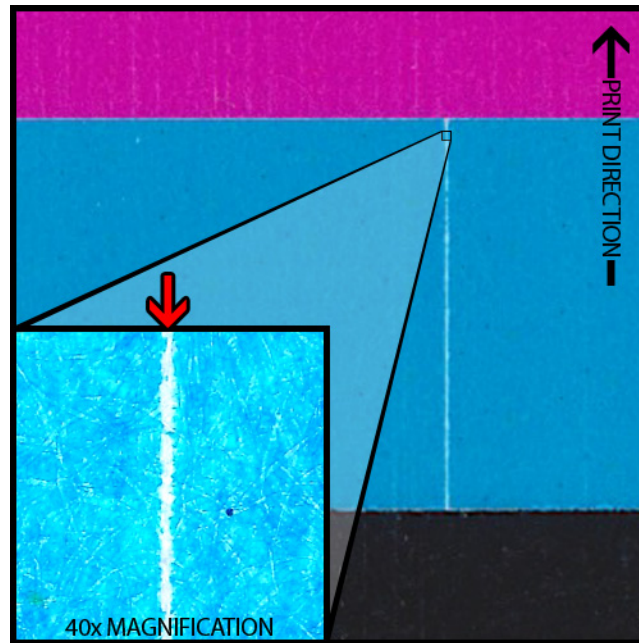
A nozzle is no longer functioning in the printhead. This is fundamentally different from a nozzle that could work but doesn't. This typically will only occur in printheads being used beyond their life expectancy.

Possible Solutions

Running a printhead cleaning routine from the maintenance utility will attempt to resolve the clog, if that is possibly the cause. Cleaning Printheads

Running a missing nozzle adjustment routine in the maintenance utility and adjusting based on which number has broken lines around it will help compensate by firing the adjacent nozzles more. Using the Missing Nozzle Adjustment

Clogged Nozzle



Description

A thin vertical line appears in the print direction as a complete absence of color.

Cause

A nozzle in the printhead is clogged by debris, dried ink, or an air bubble.

Possible Solutions

Running a printhead cleaning routine from the maintenance utility will attempt to resolve the clog. [Cleaning Printheads](#)

Running a printhead priming routine from the maintenance utility will drain and refill the printheads with ink. [Priming the Printheads](#)

If the problem persists, please contact Technical Support.

Debris on Printhead



Description

A thicker vertical line appears through the printed output in the print direction as a complete absence of color.

Cause

Multiple contiguous nozzles in the printhead are clogged by debris.

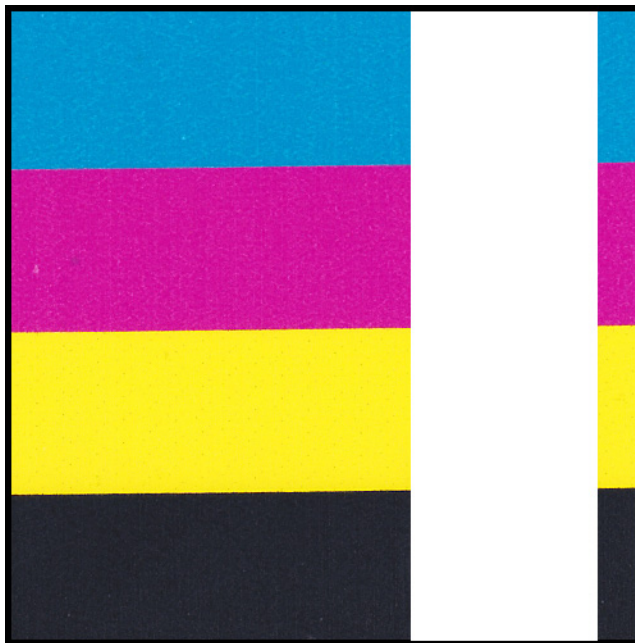
Possible Solutions

Running a heavy printhead cleaning routine from the maintenance utility will attempt to resolve the clog. **Cleaning Printheads**

Running a printhead priming routine from the maintenance utility will drain and refill the printheads with ink. **Priming the Printheads**

If the problem persists, please contact Technical Support.

Wide Voids in Print



Description

Wide areas across one or more printheads are not printing.

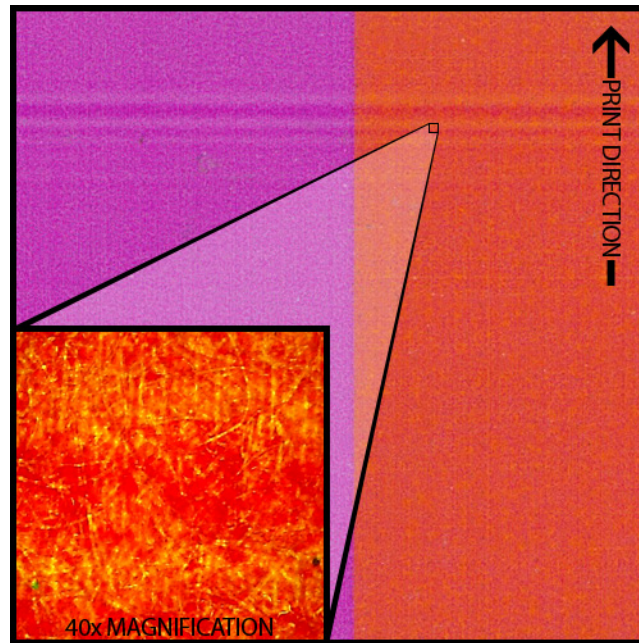
Cause

The printheads are not correctly seated in the print module and data is being lost as a result.

Possible Solutions

Please contact Technical Support.

Changes in Density Due to Torque



Description

Horizontal lines of density change across the web.

Cause

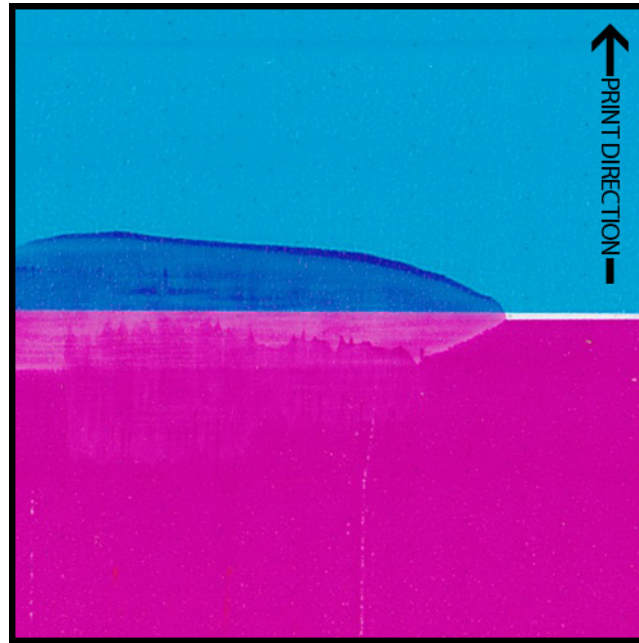
Too much torque is causing the label roll to get pulled during printing.

Possible Solutions

Lower rewinder torque.

Ensure the rewinder is properly aligned to the media.

Physical Smearing of Wet Ink



Description

Smear marks on media surface after printing.

Cause

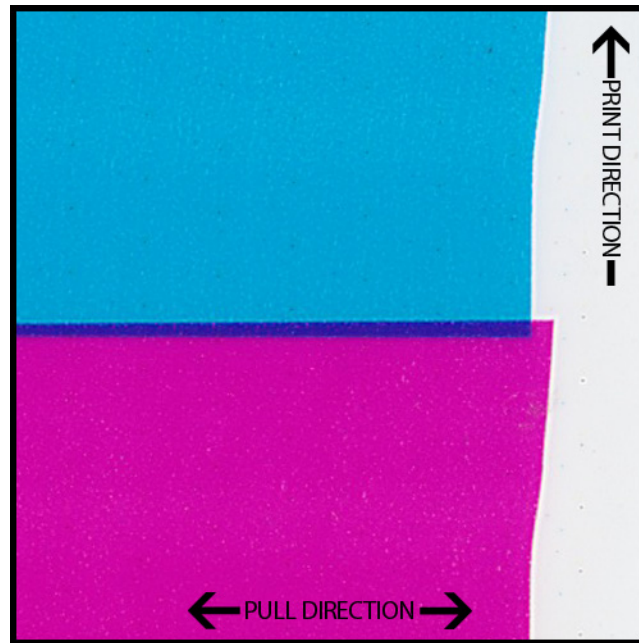
Media is physically coming into contact with surfaces before ink is dried.

Possible Solutions

Handle media with care post-printing.

Ensure media is loaded correctly and is flat while passing through the transport assembly.

Media Being Pulled at Label Exit



Description

Overlapping label content/shifting label content.

Cause

As the ink is being sprayed in the printer, the media moves faster or slower than intended and a print defect results.

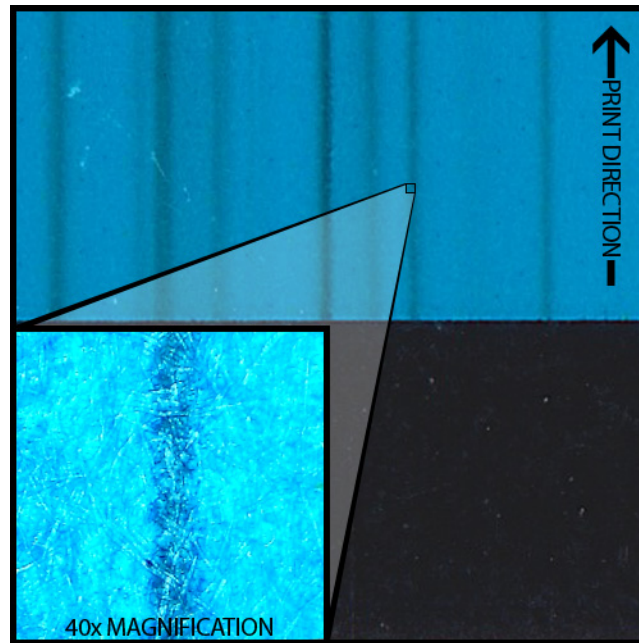
Possible Solutions

If a rewinder is in use, ensure the rewinder is aligned with the exiting media.

Ensure the label exit is uninhibited.

Lower rewinder torque.

Printhead Contamination



Description

Color-smearing occurring even in pure CMYK printed output after performing a physical cleaning.

Cause

Introduction of ink from one printhead into a different printhead with use of a cleaning stick has contaminated the printhead in question.

Possible Solutions

Perform a printhead priming and then immediately one or more heavy cleanings via the maintenance utility to flush the ink out.

- Priming the Printheads
- Cleaning Printheads

Setting up Image Placement for Full-Bleed Printing

Use the following procedure to troubleshoot full-bleed printing.

- 1 Set the vertical and horizontal offsets to zero.
 - If you are using Custom QuickLabel, set these values in the Label Printer window.
 - If you are using a third-party design application, set these values in the Kiaro! 200 printer driver Manage Labels window.
- 2 Set the vertical, left, and right overbleed values to zero.
 - If you are using Custom QuickLabel, set these values in the Print Settings tab of the Label Setup window.
 - If you are using a third-party design application, set these values in the Kiaro! 200 printer driver Manage Labels window.
- 3 Inspect the placement of the reflective mark on the roll of media. The distance between the reflective mark and the label (on either side of the reflective mark) should be no less than 1mm and no more than 2mm.
- 4 Create a label with the dimensions listed on the inner core of the media.
Verify the MPL value as: Total Repeat - Reflective Mark Length
- 5 Add a 0.25 inch or 6 mm (300 dots) outline box to the label. Use the following dimensions for the box: Label Width + 0.1 inch (3mm) x Label Height + 0.1 inch (3mm)
- 6 Center the box on the label, so that the box covers the entire label and extends past all edges of the label.
- 7 Print the label to the Kiaro! 200 with a quantity of 10 or more. Inspect all of the labels printed.

- 8** If the top edge of the label is white (unprinted), increase the vertical overbleed value by one. Reprint the label.
- If the top edge of the label is still white (unprinted), repeat this step.
 - If the top edge of the label is still white (unprinted), and you have reached the maximum overbleed value, inspect the bottom of the label.
- If there is no ink on the liner below the label, then measure the length of the physical label and verify that it is the same as the label length set in the label format.
- 9** If the bottom edge of the label is white (unprinted), increase the vertical overbleed value by one. Reprint the label.
- If the bottom edge of the label is still white (unprinted), repeat this step.
 - If the bottom edge of the label is still white (unprinted), and you have reached the maximum overbleed value, inspect the top of the label.
- If there is no ink on the liner above the label, then measure the length of the physical label and verify that it is the same as the label length set in the label format.
- 10** If the right edge of the label is white (unprinted), increase the right overbleed value by one. Reprint the label.
- If the right edge of the label is still white (unprinted), repeat this step.
 - If the right edge of the label is still white (unprinted), and you have reached the maximum overbleed value, inspect the label.
- Ensure that the liner from the right edge of the physical label to the right edge of the total construction is 14mm.
- If it is not exactly 14mm, the media is made out of specification and full horizontal bleed is not possible on this roll.
- 11** If the left edge of the label is white (unprinted), increase the left overbleed value by one. Reprint the label.
- If the left edge of the label is still white (unprinted), repeat this step.
 - If the left edge of the label is still white (unprinted), and you have reached the maximum overbleed value, inspect the label.
- Ensure that the liner from the right edge of the physical label to the right edge of the total construction is 14mm.
- If it is not exactly 14mm, the media is made out of specification and full horizontal bleed is not possible on this roll.

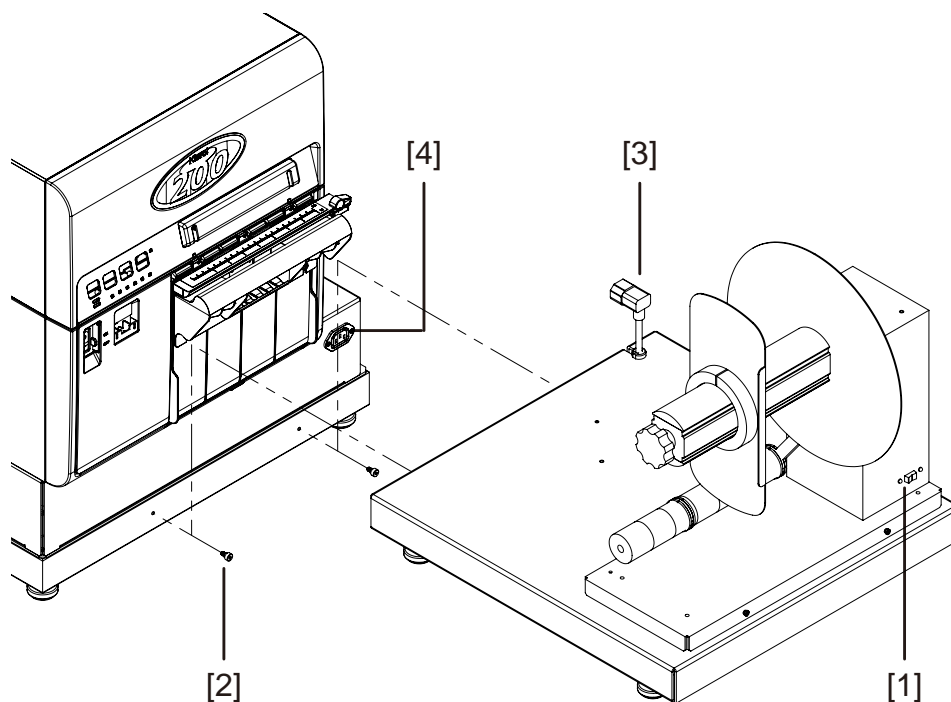
Before Installing the Rewinder

Before installing the rewinder, observe the following precautions.

- No rewinder feet should float. The rewinder must be held level constantly.
- The rewinder must be installed on the same plane as the printer.
- The rewinder weighs 30 pounds (13.6 kilograms). When placing the rewinder on a desk, table, or other similar surface, it must be sturdy and stable enough to support the weight of the printer and the rewinder.
- Do not turn the rewinder mandrel by hand to rewind the media. Turning the mandrel by hand can result in rewinder damage.

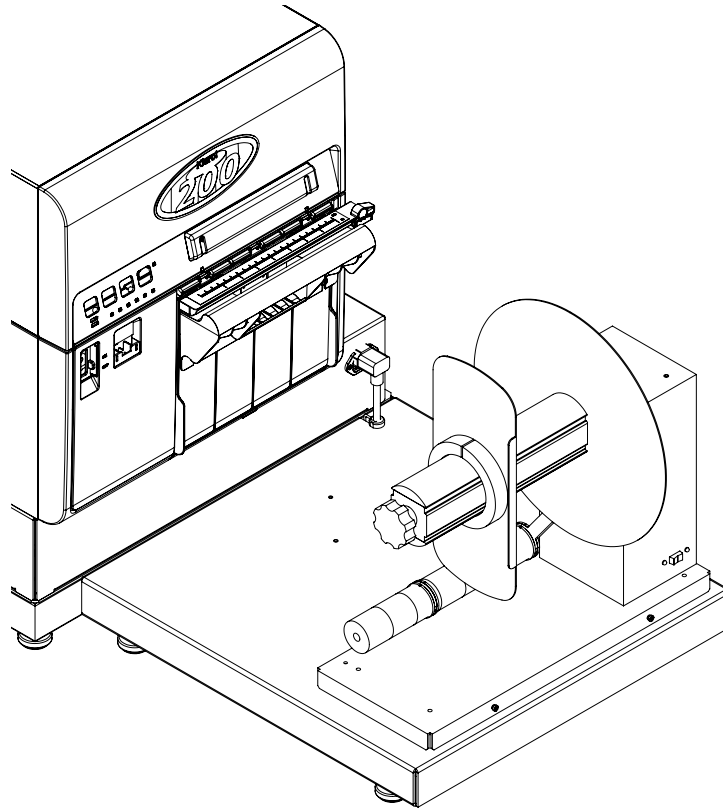
Installing the Rewinder

- 1 Ensure the power switch [1] on the rewinder is in the off position.
- 2 Use a 1/8" hex key to install the two shoulder screws [2] provided with the rewinder. Fasten the shoulder screws into the two threaded holes on Kiaro! 200 black frame as illustrated.



- 3 Orient the rewinder as illustrated. Ensure the shoulder screws on the printer are aligned with the corresponding mounting slots on the rewinder frame.

- 4 Lift the rewinder and position the mounting slots over the shoulder screws on the printer. Lower the rewinder while ensuring the slots engage with the screws.
- 5 Plug the rewinder power cord [3] into the power receptacle [4] on the Kiaro! 200.



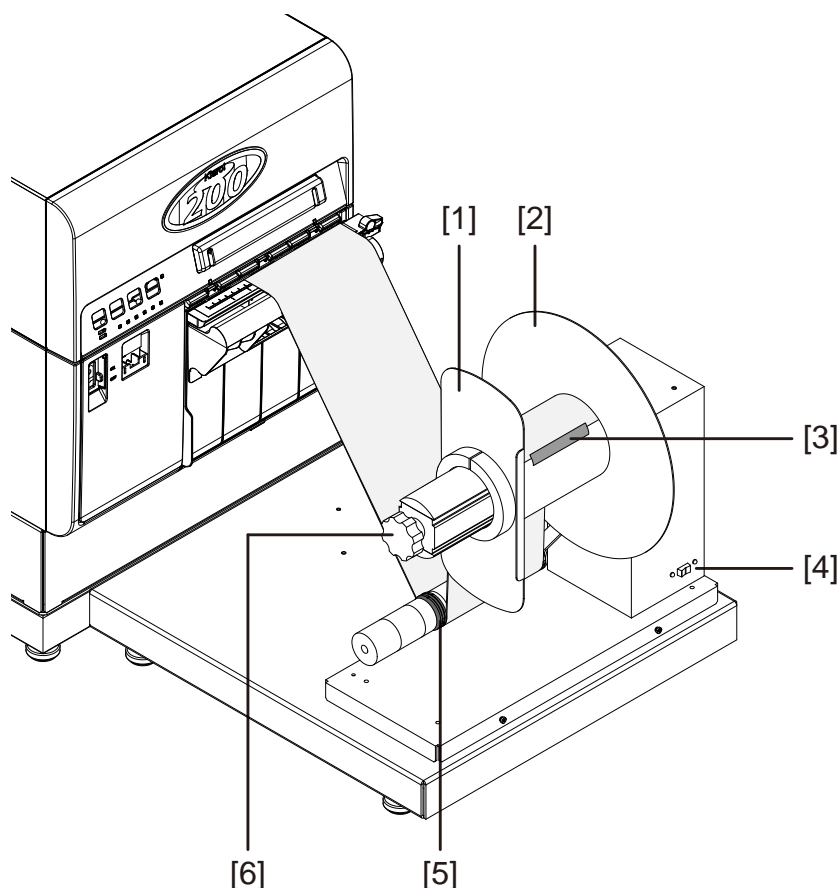
- 6 If necessary, you can rotate the feet on the bottom of the frame to adjust the height of each corner. Use these adjustments to keep the rewinder level.

Rewinding Labels

The rewinder automatically winds printed media exiting the Kiaro! 200 onto rolls. The setup process for rewinding labels requires an empty label core and tape.

Note: Do not turn the rewinder mandrel by hand to rewind the media. Turning the mandrel by hand can result in rewinder damage.

- 1 Ensure the power switch [4] on the rewinder is in the off position.



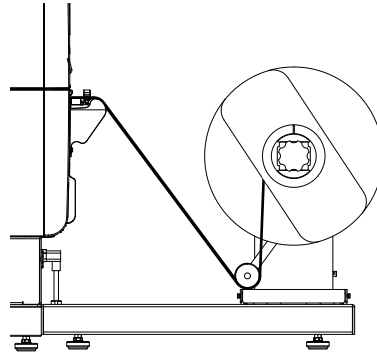
- 2 Turn the rewinder mandrel adjustment knob [6] counterclockwise to loosen the mandrel.
- 3 Remove the outer flange [1] from the mandrel.
- 4 Load an empty label core on the mandrel.

Use an empty label core of the same width as the label media you will be using. Install the roll core on the rewinder, sliding it until it contacts the inner flange [2]. The outer flange [1] will be installed after you fasten the label media to the roll core.

- 5 Start a print job. Pause the job when the printed media advances slightly past the rewinder.

- 6 Feed the media under the rewinder dancer arm and up around the empty label core. The inside edge of the media should be aligned squarely with the inner flange [2].
- 7 Fasten the end of the media to the core with tape [3]. Ensure the printed side faces out.
- 8 Adjust the spring collar [5] on the dancer arm. Slide the collar just before it contacts the media. Label media should be able to move smoothly without being hindered by the collar.
- 9 Reinstall the outer flange [1] and then turn the mandrel adjustment knob [6] clockwise to tighten the mandrel.
- 10 Turn the power switch [4] on the rewinder to the on position.

When the dancer arm is in a lowered position, the rewinder mandrel will rewind media as needed. Do not turn the mandrel by hand to rewind the media. The media rewind path is illustrated below.



- 11 Resume the print job on the Kiaro! 200. The rewinder will rewind media automatically as needed. The rewinder will stop when the printer stops advancing media or when the printer is out of media.

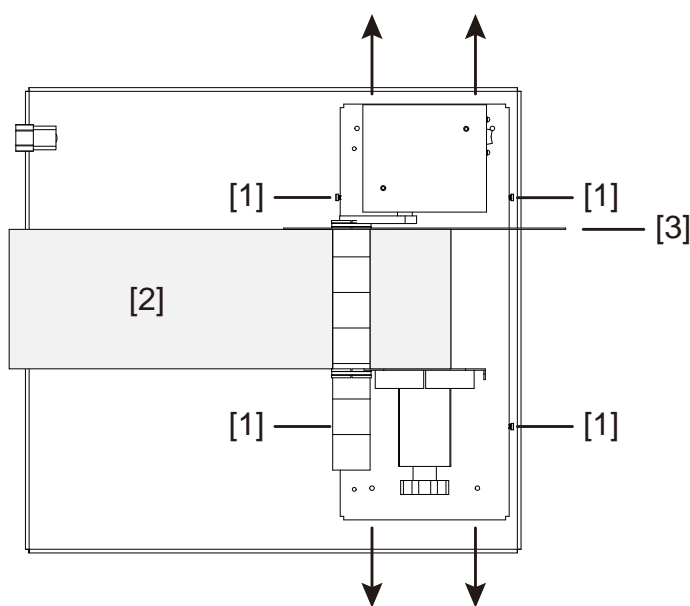
Adjusting Rewinder Alignment

As labels exit the printer, the edge of the label media should be squarely aligned with the inner flange on the rewinder. If needed, you can adjust the position of the rewinder to ensure alignment with labels as they exit the printer.

Note: In most cases, rewinder accessories are aligned at the factory and will not require adjustment.

- 1 Ensure the power switch on the rewinder is in the off position.
- 2 Start a print job. Pause the job when the printed media advances slightly past the rewinder.

Refer to the following top-view illustration during the alignment procedure.



- 3 Use a 2.5 mm hex key to loosen the four rewinder screws [1]. Do not remove these screws.
- 4 Slide the rewinder in the adjustment directions indicated by the arrows as needed. The edge of the media [2] should be squarely aligned with the inner flange [3].
- 5 When the adjustment is complete, tighten the four screws [1] to secure the rewinder in place.
- 6 Repeat the rewinder setup process. Rewinding Labels

8

Safety Warnings and Precautions

Before using this printer, please read this section thoroughly. Warnings to heed and important matters are described here to prevent damage to the user and other persons.

Do not attempt to operate this printer in any way other than those mentioned in the User Guide.

Location

Make sure there is sufficient space around the printer.

Warning

- Never place items on the printer such as a flower vase, potted plant, cosmetics, any liquid filled container, or metal fasteners. If such items were to fall on the printer, this could cause a fire, electrical shock, or damage to the printer.
- The electrical contacts inside the printer become extremely hot during normal operation. To avoid causing a fire, never store flammable substances like alcohol, thinner, etc. near the printer.

Caution

Avoid using the printer in the following types of locations.

- Where the printer is exposed to open air or high humidity. This could cause a fire, serious electrical shock, or damage to the printer. Also, if the printer is carried into a warm room on a cold day, this could cause condensation inside the printer. If this happens, allow the printer to sit for at least 1 hour at room temperature to adapt to the ambient temperature and humidity.
- Never place the printer on a slanted or unstable stand or table. If the printer is dropped or slides off, this could cause personal injury. Also, never place a heavy object on top of the printer. If the object is dropped or falls, this could cause injury.
- Never expose the printer to open air or dust. This could cause a fire, serious electrical shock, or damage to the printer. Also, never locate the printer near a water faucet or in any other location where it will be exposed to water. This could cause serious electrical shock.
- Never set up the printer in a location that is exposed to high humidity or large amounts of dust, or exposed to direct sunlight, high temperature, or open flame. This could cause a fire or electrical shock.
- Use the printer in an environment where temperature and humidity are within the ranges of 59 to 86 degrees Fahrenheit (15 to 30 degrees Celsius) and 10 to 90% RH (with no condensation).
- To ensure normal operation of the printer and avoid possible damage, never install the printer near large office equipment or any other type of electrical device that emits a strong magnetic field.

- Never block the ventilation ports on the printer. A blocked ventilation port could cause heat to build up inside the printer and cause a fire. Also, place the printer in an area where you can disconnect the power cord immediately; keep the area around the power cord connection free of obstacles. This allows you to unplug the power cord quickly in an emergency.

Power Supply and Power Cord

Warning

- To avoid causing a fire or serious electrical shock, always use the power cord provided with this printer. To avoid a fire or electrical shock, do not use an extension cord.
- To avoid a fire or serious electrical shock, connect the printer power cord to an independent power source that is not shared by other equipment or appliances.
- To avoid causing a fire or serious electrical shock, make sure that the power plug is securely and completely inserted into the power source.
- Do not cut, damage, or otherwise alter the power cord. To avoid the dangers of fire and electrical shock, never place a heavy object on the power cord, never expose it to heat, and never pull on the cord to disconnect it. If the power cord is damaged in any way (condensation on exposed wires, broken wires, etc.) contact the dealer where you purchased the printer or the nearest service center for a replacement.
- To avoid personal injury from an electrical shock, never handle the power cord or plug when your hands are wet.
- To avoid a fire or serious electrical shock, never knot the power cord or wrap it around itself.
- Disconnect the printer power cord during severe electrical storms. Lightning could cause a fire or severe electrical shock or damage to the printer.
- To avoid a fire hazard, occasionally disconnect the power cord from the printer and the power supply and use a soft dry cloth to clean the cord connectors and the connection points. Leaving the cord plugged in and not cleaned for a long period, especially in an area subject to dust, oil, and high humidity, could cause the insulation material to deteriorate.

Caution

- Be sure to turn off the printer before removing the power plug from the outlet.
- Check the power plug and cord for any problem (abnormal heat, rust, bend, cracks, scratches, etc.) at least once a month.
- If any problem with the power plug or cord is found, replace it. Using it without replacement can result in a fire or electrical shock hazard.
- To avoid damaging the power plug, which could cause a short circuit and cause a fire or electrical shock, never pull on the power cord to unplug the cord from the power supply. Always grip the plug to remove it from the power supply.

- If the printer will not be used for a long period, for your safety disconnect the power cord from the power source.
- Always keep the area around the power plug free of obstacles so you can unplug it easily. This allows you to unplug the power cord quickly in an emergency.
- Never use any power source other than the one rated for the printer. This printer is designed to be used in the region where purchased. Also, make sure the power source can supply sufficient power for the printer. This could cause a fire or serious electrical shock, or damage the printer.

Supply voltage: 100-240 VAC 50-60 Hz 3.5A

Power consumption: 345W (max)

General Safety

Warning

- If you find a large ink leak, switch the printer off immediately, disconnect the power plug from the power source, and call for service. If you continue to use the printer, this could cause a fire or serious electrical shock.
- Never clean the printer with water or any flammable liquid (alcohol, benzene, thinner, etc.) either applied directly or with a cloth. If you accidentally spill liquid on the printer, switch the printer off immediately, disconnect the power plug from the power source, and call for service. If you continue to use the printer, this could cause a fire or serious electrical shock.
- If the printer emits smoke, unusual odors, or makes noises, leaving it could cause a fire or serious electrical shock or damage to the printer. Switch the printer off immediately, disconnect the power plug from the power source, make sure that the printer has stopped smoking, and call for service. Do not attempt to repair the printer by yourself. This could cause a fire or serious electrical shock.
- Use only a slightly damp cloth, thoroughly wrung out, to clean the printer surfaces. Never use alcohol, thinner or any other flammable liquids. If such materials come into contact with electrical components inside the printer, this could cause a fire or serious electrical shock.

Caution

- There are high voltage points inside the printer. To avoid a fire or electrical shock, never attempt to disassemble or repair the printer.
- Never insert or drop any metal objects into the printer when it is open. This could cause a fire or serious electrical shock, or damage the printer. If something falls into the printer accidentally, switch the printer off immediately, disconnect the power plug from the power source, and call for service. If you continue to use the printer, this could cause a fire or serious electrical shock.
- If the printer is dropped and damaged, switch the printer off immediately, disconnect the power plug from the power source, and call for service. If you continue to use the printer, this could cause a fire or serious electrical shock.
- To avoid a fire or electrical shock, never use flammable sprays around the printer.

- Never remove the cover from the printer. This could cause a serious electrical shock.
- It is dangerous to put your fingers deep inside the ink cartridge boxes. There are pin-sharp parts which may hurt you or alternatively you may cause damage that will lead to breakdown.
- Keep children from touching the power cord, internal parts of the printer when it is open, and moving parts inside the printer (gears, belts, rollers, and electrical components). This could cause personal injury or damage the printer.
- Labels printed with this printer should not directly be stuck on food such as fruits and vegetables. They should be stuck on the plastic wrap over the food.

Important

- To prevent machine failures, do not open the ink tank door or maintenance cartridge exchange door, do not turn off the printer, and do not remove the power plug from the outlet while the printer is printing. If you do so, the print head protection function is not performed properly, resulting in a machine failure or ink leakage which can soil your clothes and the surrounding area.
- Do not apply excessive force or strong shock to the upper unit. Doing so can result in a machine failure or impair printer quality. Be sure to open/close the upper unit slowly.
- Do not place the printer close to TV, radio receiver or loudspeakers, etc. The magnetic field produced may cause the printer to malfunction, or the printer may interfere with TV/radio reception.
- Printed labels and ink can discolor due to ultraviolet rays and ozone.

Moving the Printer

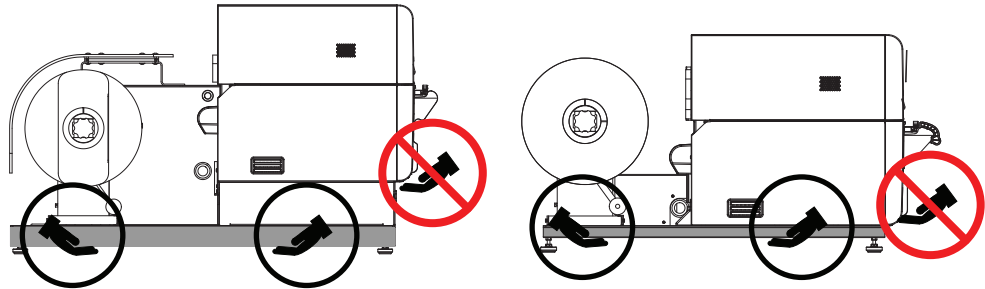
Warning

- Call the dealer for advice before you ship the printer a long distance or move the printer by car or truck where it may be subjected to shock and vibration. Moving the printer without the proper preparation could subject it to shocks and vibrations which could damage the printer and cause a fire.

Caution

- Before moving the printer, use the appropriate procedures to drain ink from the printhead or entire print system. See Preparing for Moving and Preparing for Shipping.
- Before you move the printer to another location in the same building, disconnect the power cord and make sure that all other cables are disconnected.
- The printer can weigh up to 170 pounds (77 kilograms). Three persons are required to lift the printer. Lift only by the black frame on the bottom of the printer. Do not grasp any other part of the printer to lift it. Do not lift the unit by the print engine.

Attempting to lift the printer in an improper position can result in fall of the printer or injury.



- Always hold the printer level and carry it slowly. If ink is spilled inside the printer while moving it, this could cause a fire or serious electrical shock or damage the printer.

Important

- To prevent machine failures, do not relocate or transport this printer with the upper unit open.

Ink Tank and the Maintenance Cartridge

Caution

- Always store these items out of the reach of small children. This prevents accidents. If a child accidentally swallows ink, seek medical attention immediately.
- If ink gets into your eyes, wash it out with flowing water immediately. If irritation persists, consult a physician.
- If ink comes into contact with your skin, rinse it off with flowing water immediately. If irritation persists, consult a physician.
- Never drop or apply excessive force to an ink tank or the maintenance cartridge. Ink can stain clothing and the work area.
- Never attempt to disassemble or modify the ink tanks. They contain ink, which may leak out and smear your clothes or things around you.

Important

- Do not install or remove the ink tank or maintenance cartridge unless it needs to be replaced. Doing so can accelerate wear of the printer components.

Printer	
Printing method	Inkjet
Print colors	Full color
Output resolution	1200 x 1200 dpi
Printing speed	200/160/120/100/90/80/70/60/50 mm/s Auto
Printable area (maximum)	8.36 in (W) x 17.87 in (L) 212.4 mm (W) x 453.9 mm (L)
Printable area (minimum)	4.25 in (W) x 0.875 in (L) 108 mm (W) x 22.23 mm (L)
Print margin (relative to media transport direction)	0.0 in/mm (full bleed capable)
Printhead	10,248 nozzles (number of effective nozzles)
Paper	Matte coated paper, glossy paper, matte synthetic, glossy synthetic
Paper size	Maximum width: 9.07 in or 230.4 mm Maximum length: 18.12 in or 460.2 mm Minimum width: 4.921 in or 125.0 mm Minimum length: 1.00 in or 25.4 mm
Paper thickness	145 ~ 255 μ m
Paper capacity	12" O.D. supply roll
TOF type	Reflective mark only
Ink used	Aqueous dye-based ink Yellow (Y), Magenta (M), Cyan (C), and Black (Bk)

Printer	
Ink used (Kiaro! 200D)	Aqueous pigment-based ink Yellow (Y), Magenta (M), Cyan (C), and Black (Bk)
Interface	Hi-Speed USB, 1000BASE-T/100BASE-TX/10BASE-T
Operating noise	65 db or less
Operating environment (temperature)	59 to 86 degrees Fahrenheit 15 to 30 degrees Celsius
Operating environment (humidity)	10% to 90% relative humidity (no condensation)
Power rating	100-240 VAC 50-60 Hz 3.5A
Power consumption	Maximum power: 350W or less

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