

QL-111 User Guide

Part Number 22834659-EN-E
Revision 1.0
3/2016

QuickLabel Systems, An AstroNova™ Division

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QL-111 Limited Warranty

QuickLabel Systems, An AstroNova Division, 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 transport unit, purge unit, blade cleaner, 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 QL-111 ink cartridge sold by QuickLabel Systems.

Each QL-111 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 QL-111 printing system.

If the customer suspects a defect in a QL-111 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 QL-111 system. The QL-111 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 QL-111 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 QL-111.

This warranty is void if the QL-111 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 printhead from the date of purchase for a period of 120 days or for 1.5 million inches of printing, whichever comes first, contingent upon the use of QuickLabel ink and labels. The QL-111 printhead is 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

600 East Greenwich Avenue
West Warwick, RI 02893 USA
Toll Free: (877) 757-7978
Toll-Free Sales: (877) 757-7978
Toll Free Technical Support: (877) 757-7310
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Fax: (401) 822-2430
Web Site: www.QuickLabel.com
Sales E-mail: info@QuickLabel.com
Technical Support E-mail: support@QuickLabel.com

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Web Site: www.QuickLabel.ca
Sales E-mail: info@QuickLabel.ca
Technical Support E-mail: support@QuickLabel.ca

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Technical Support E-mail: support@QuickLabel.de

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Sales E-mail: info@QuickLabel.fr
Technical Support E-mail: support@QuickLabel.fr

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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 B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the 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 B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

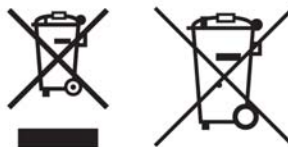
Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

RoHS2 Compliance

The QL-111 Label Printer does not contain the 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 its 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

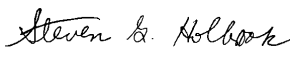
Contains a preservative to control microbial deterioration.

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-22834607
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.	Kiara!, QL-111
Description of Products Description des produits Produktbeschreibungen Descrizione dei Prodotti	Color Label Printer
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	UL 60950-1 2nd Edition CAN/CSA-C22.2 No.60950-1-07 2nd Edition IEC60950-1: 2005 2nd Edition+Am1 EN60950-1: 2006 +A11+A1+A12 EN 55022:2010 Class B EN 61000-3-2: 2006+A1+A2 EN 61000-3-3: 2008 EN55024: 2010 EN50564:2011 (Commission Regulation (EC) No 1275/2008) Part 15 Subpart B Class B ICES003 Class B
Application of Council Directives Application des Decisions du Conseil Anwendbar für die Richtlinien Applicazione delle Direttive del Comitato	2004/108/EC 2006/95/EC
<p>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.</p>	
Steven Holbrook Quality Assurance Manager Astro-Med, Inc. CE Label First Affixed Date: 13	 Date of issue: <u>3/18/2016</u> Place of issue: <u>West Warwick, RI</u>
European Contact: Your local Astro-Med, Inc. Sales and Service Office. FRANCE - Astro-Med SNC, Parc Euclide, ZA la Clef de St Pierre, 10A Rue Blaise Pascal, 78990 ELANCOURT (Tel. 331-3482-0900 Fax: 331-3482-0571 Email: AstroMedFrance@astromed.com) GERMANY - Astro-Med GmbH, Senefelderstrasse 1/T6, D-63110 Rodgau (Tel. +49(0)6106-28368-0 Fax: 49-6106-771121 Email: AstroMedDeutschland@astromed.com) UNITED KINGDOM - Astro-Med, Inc., Astro-Med House, 11 Whittle Parkway, Slough, SL1 6DQ. (Tel. 44-1628-668836 Fax: 44-1628-664994 Email: AstroMedUK@astromed.com)	

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1

Quick Start Guide

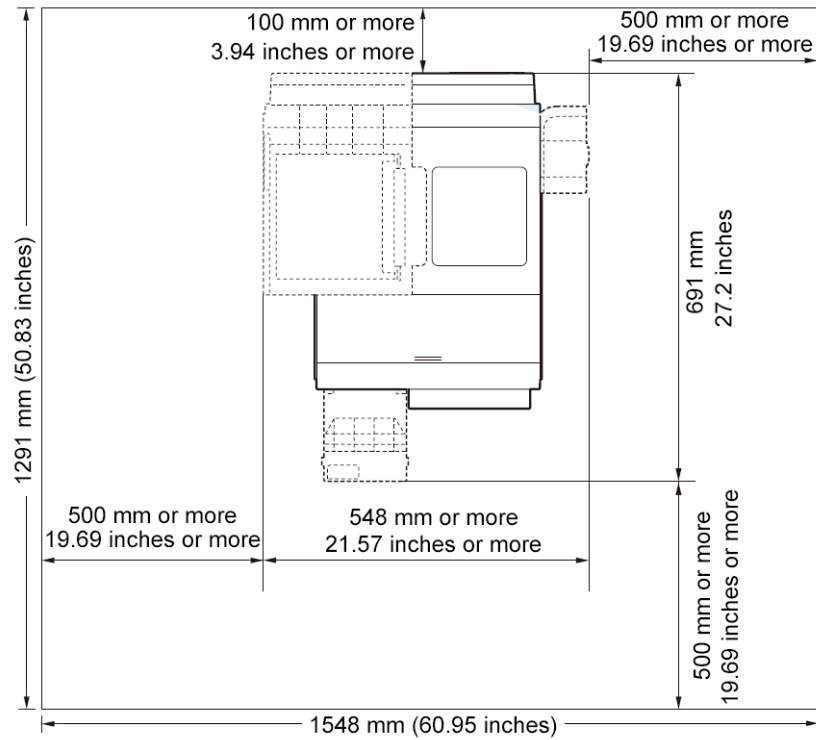
Before Installing the Printer

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 (100V - 240V AC +10%/-15%). 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 80% relative humidity.
- Avoid placing the printer in areas exposed to high temperature and humidity, extremely low temperature, severe temperature changes, or direct sunlight. Especially, avoid placing the printer near fire, outdoors, in distribution warehouses, or in refrigerated areas.
- Avoid installing the printer in areas subject to dust.
- The room must be properly ventilated.
- 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.

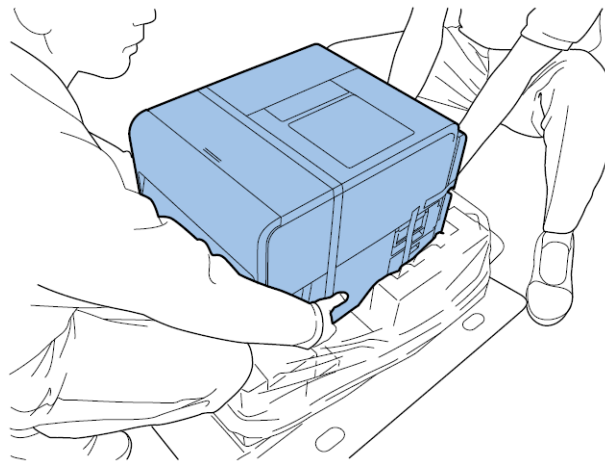
- The minimum space required for installation and maintenance is shown below.



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 weighs about 53 pounds (24 kilograms). Two persons are required to lift the printer. Two persons standing at the front and back of the printer respectively must lift the printer by holding it with their hands under the bottom handles (two at the front, one at the left, and one at the right). Attempting to lift the printer in an improper position can result in the printer falling or injury.



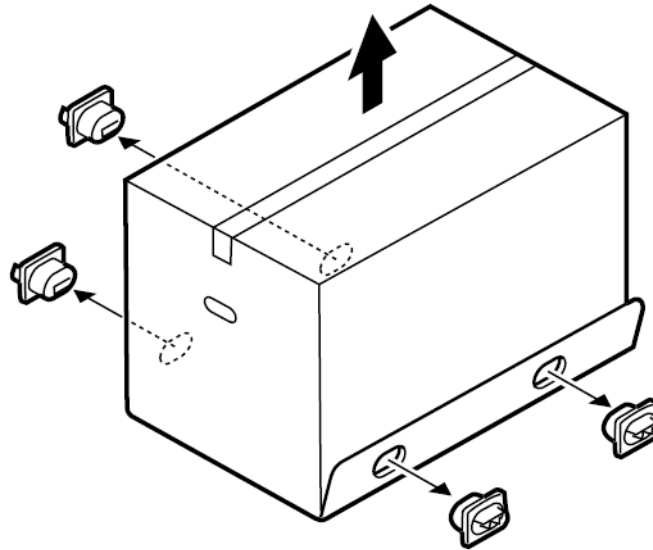
System Requirements

- 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
- Internet access
- One available USB 2.0 port for USB installation or network connectivity for network installation

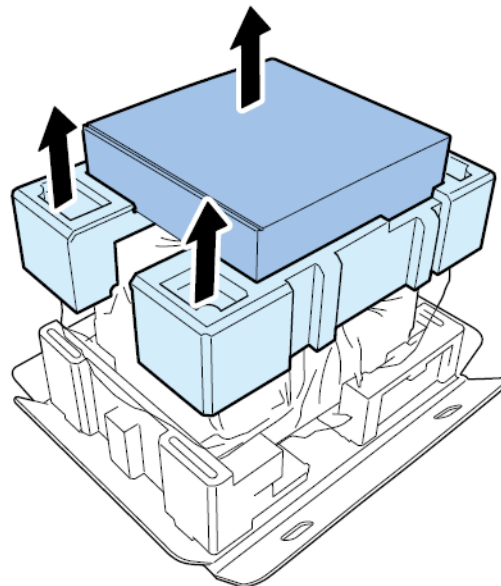
Unpacking the Printer

The printer is secured using packing tape and 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.

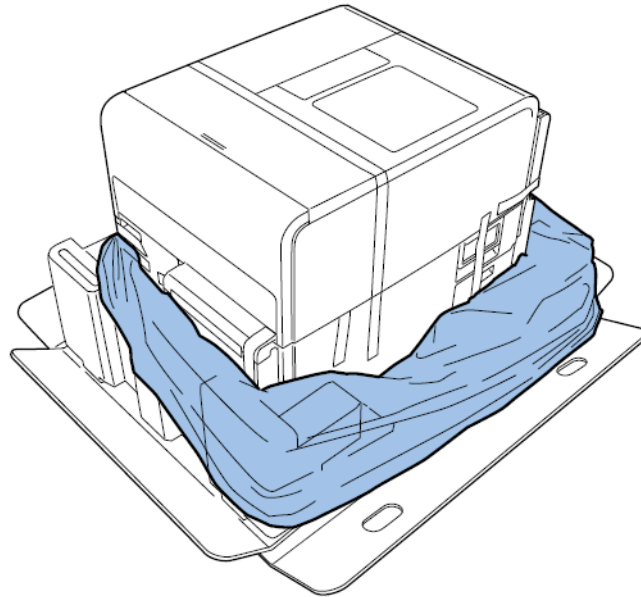
- 1 Remove the four grips from the packing carton, and then remove the outer casing.



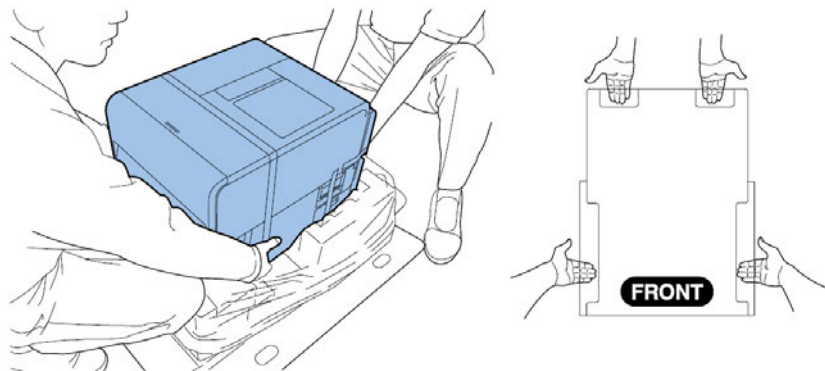
- 2 Remove the accessory box, and then remove the upper pads.



- 3 Unwrap the plastic bag from top to bottom.



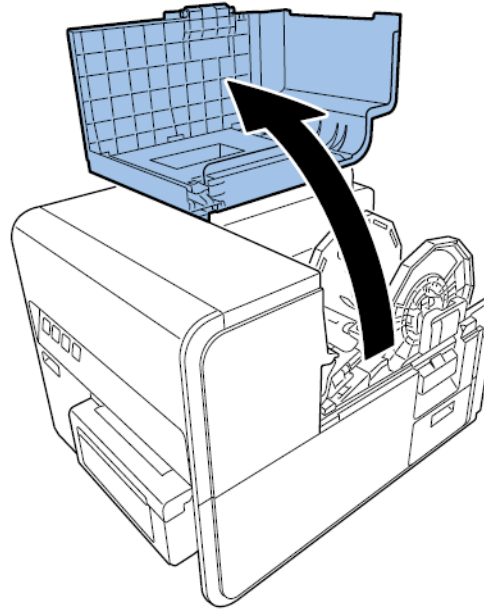
- 4 Holding the handles at the bottom of the printer, lift the printer to take it out from the package base. Lift from the illustrated points. Do not hold the front side of the printer.



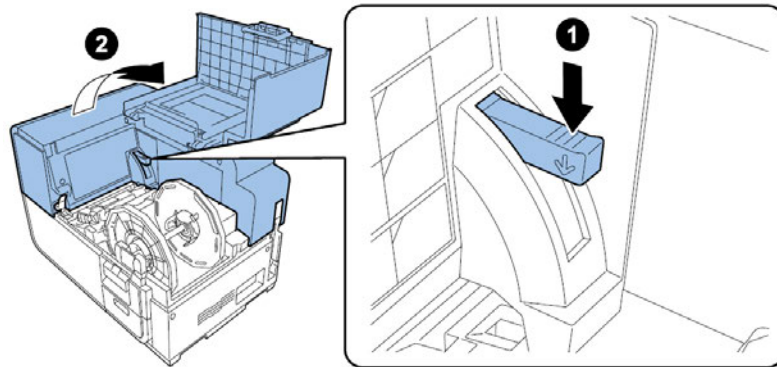
Note: The printer weighs about 53 pounds (24 kilograms). Two persons are required to lift the printer. Two persons standing at the front and back of the printer respectively must lift the printer by holding it with their hands under the bottom handles (two at the front, one at the left, and one at the right). Attempting to lift the printer in an improper position can result in the printer falling or injury.

- 5 Place the printer on a horizontal table. Then remove all pieces of packing tape and cushioning materials visible on the exterior of the printer.

- 6 Open the roll cover.

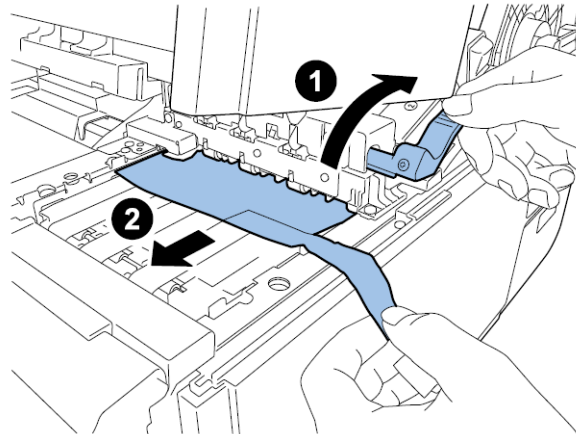


- 7 Remove all pieces of tape securing the roll holder.
- 8 Push down the upper unit release lever, and then open the upper unit.



- 9 Remove all pieces of tape inside the printer.

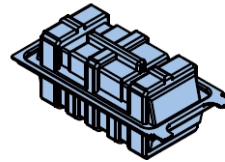
- 10 Turn the pinch roller release lever, and then remove the protective sheet.



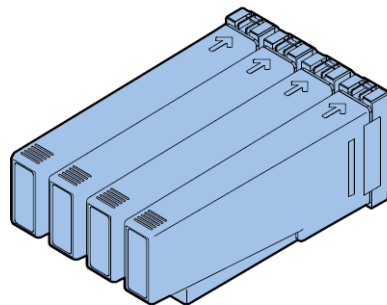
Checking the Included Parts

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

- Printhead unit



- Starter ink tanks (one for each color)



- AC power cables (North American and European)
- USB cable

Caution: Several power cables come with printer. Use the appropriate power cord for the power supply used at the installation site.

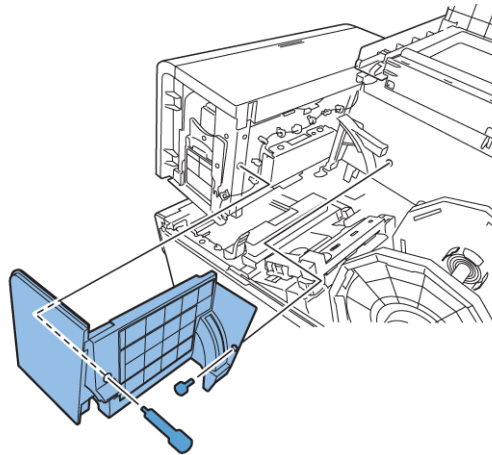
Installing the Printer

Installing the Printhead

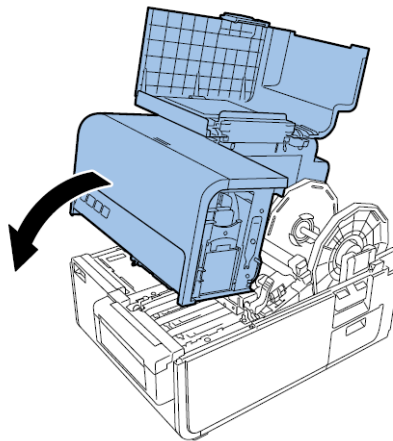
Use the following instructions to install the printhead.

Caution: *The printhead is a sensitive electronic component. Use extreme caution when installing it. Follow the provided instructions carefully to prevent damage to the printhead.*

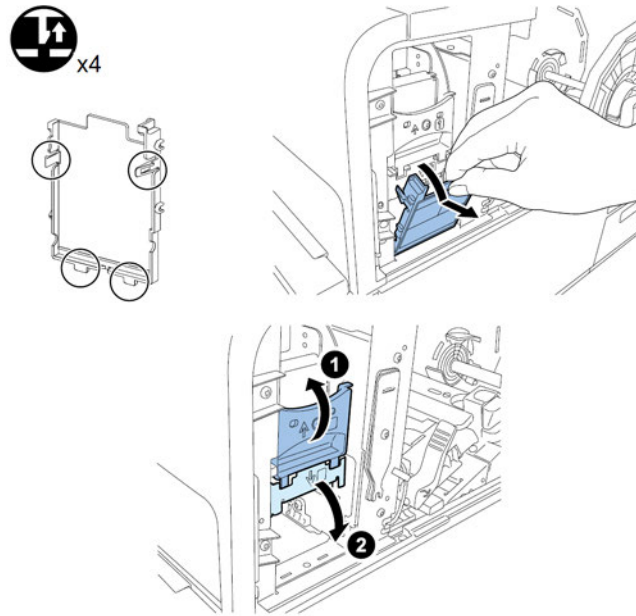
- 1 Remove the two thumbscrews to remove the main maintenance cover from the upper unit.



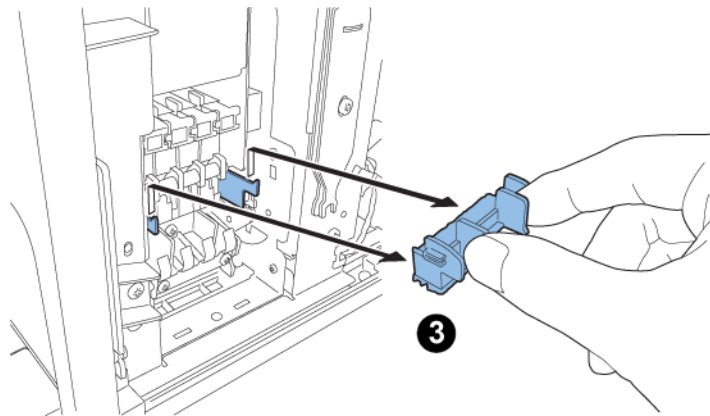
- 2 Close the upper unit.



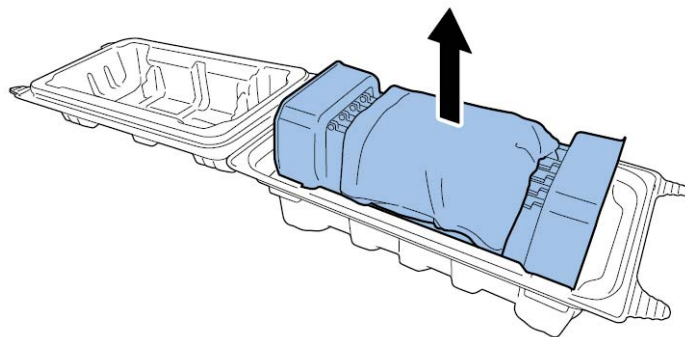
- 3 Remove the print module cover. Then open the upper printhead release lever and lower printhead release lever.



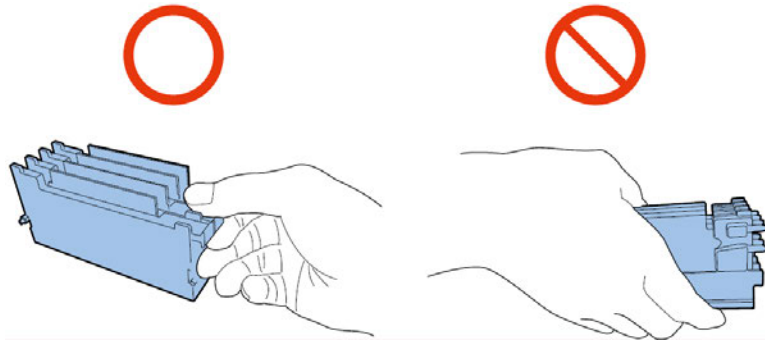
Remove the blade cleaner.



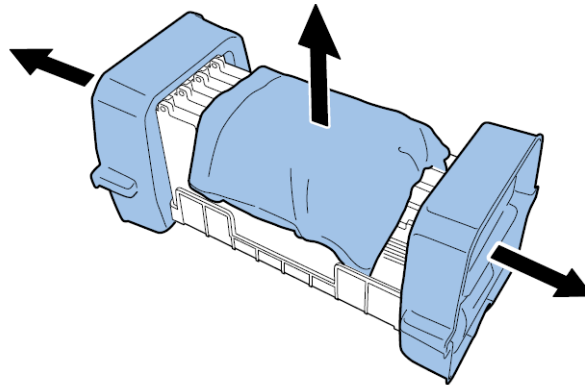
- 4 Remove the printhead from the package.



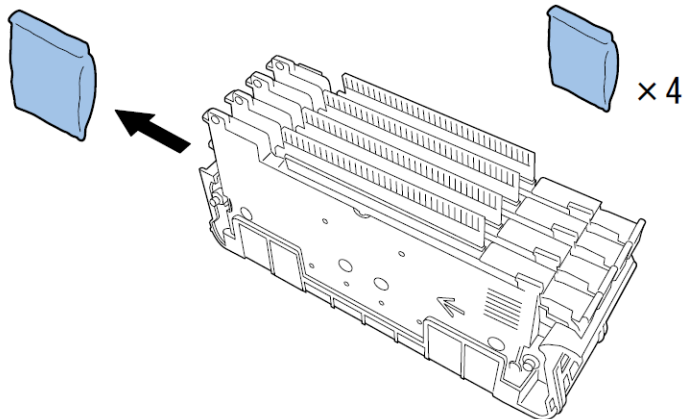
Caution: Do not touch the printhead face. An ink injection problem can occur. Hold the printhead only by the end tab.



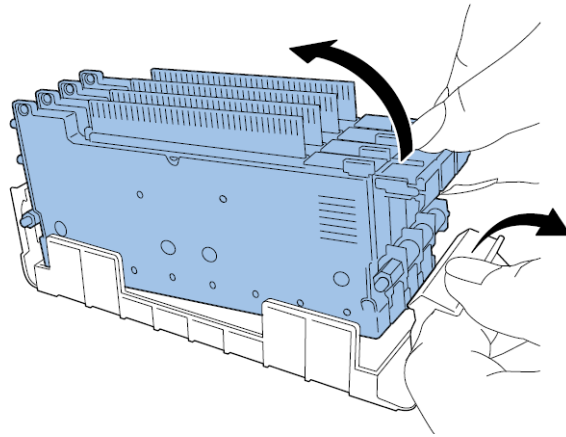
- 5 Remove the cover protecting the terminals of the printhead PC boards. Remove the protective guides from the ends of the printhead.



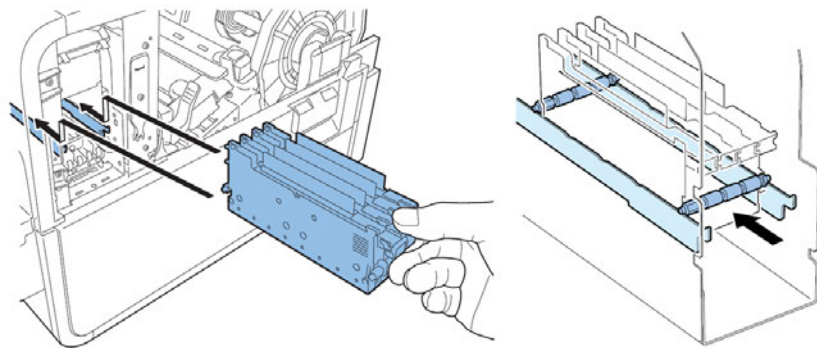
- 6 Remove the caps from the printhead ink supply ports.



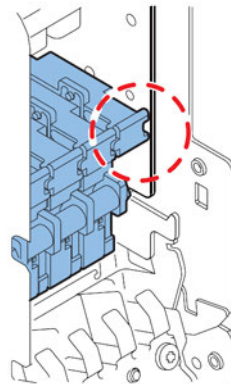
- 7 Remove the printhead from the head protector.



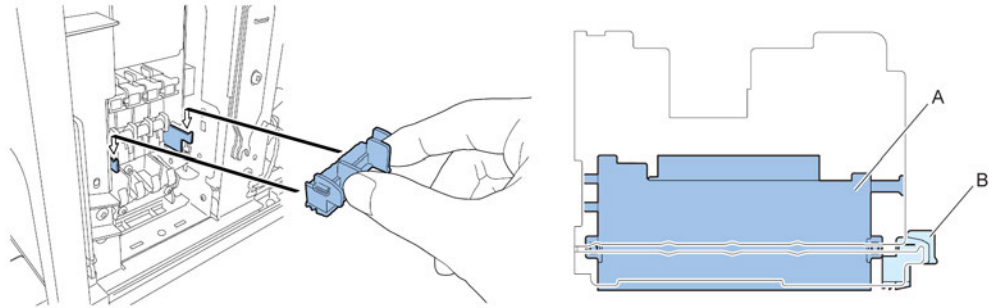
- 8 Mount the printhead in the printer. Ensure the metal alignment pins on the printhead insert into the corresponding alignment slots in the printer. Push the printhead in until it stops moving.



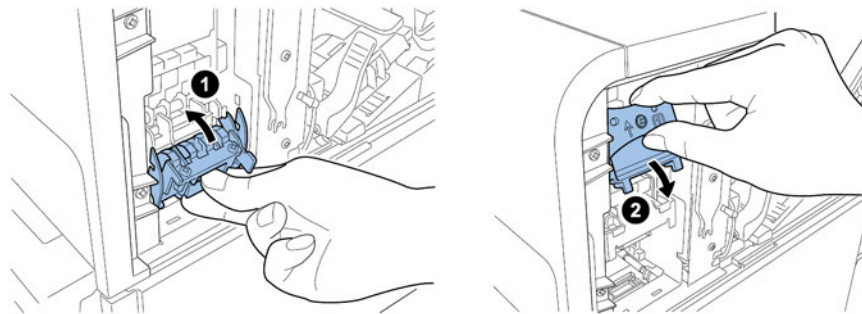
If printhead is insufficiently inserted, the lower printhead release lever cannot be closed. To confirm printhead is in the correct position, see if the end of printhead grip and the edge of the inner metal plate are in the same plane as shown in the figure.



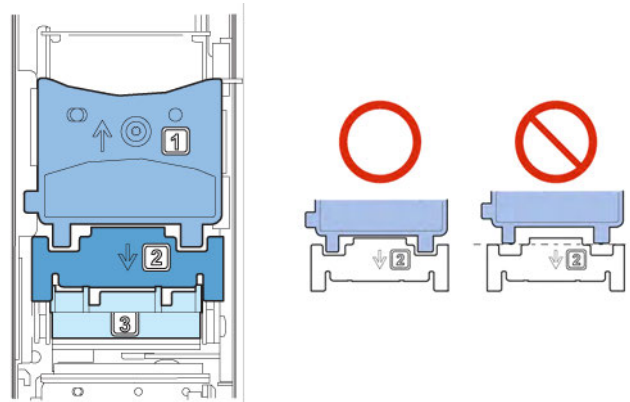
- 9 Mount the blade cleaner in the printer. The blade cleaner (B) rests on the alignment slots used by the printhead (A).



- 10 Close the lower printhead release lever and upper printhead release lever.

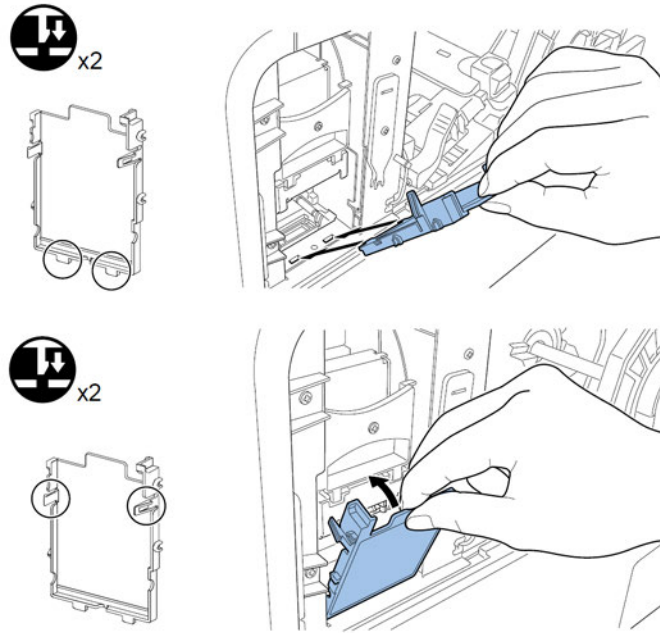


- 11 Check that numbers (1), (2), and (3) indicated on Print Module are visible.

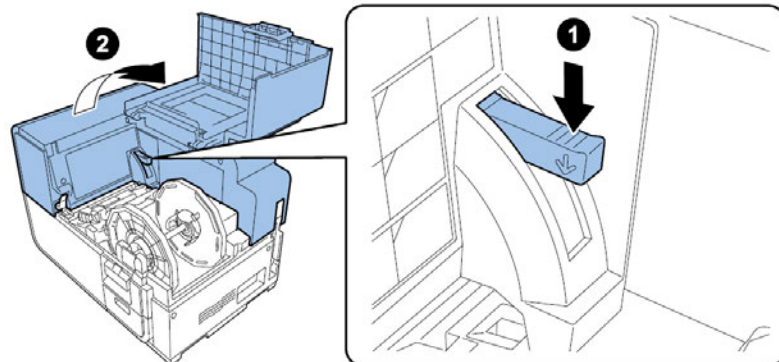


If any numbers (1), (2), or (3) are invisible, the printhead release lever (1, 2) has not been closed or the blade cleaner (3) has not been mounted. Review work procedure.

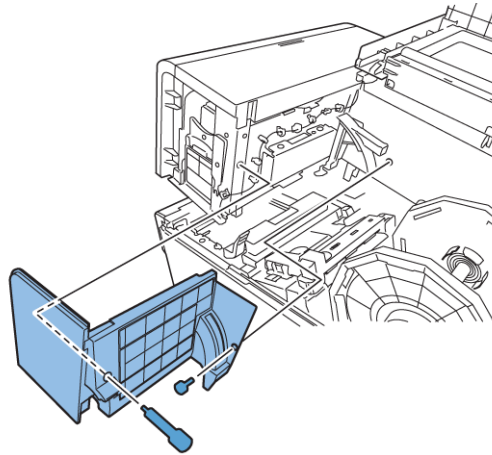
12 Attach the included print module cover to the print module.



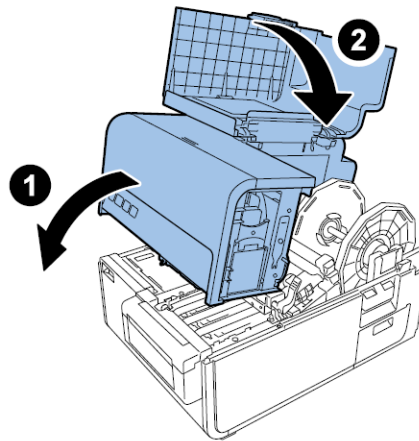
13 Push down the upper unit release lever and then open the upper unit.



- 14 Install the main maintenance cover on the upper unit with the two thumbscrews.

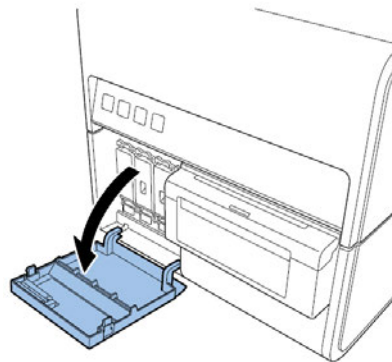


- 15 Close the upper unit and then close the roll cover.

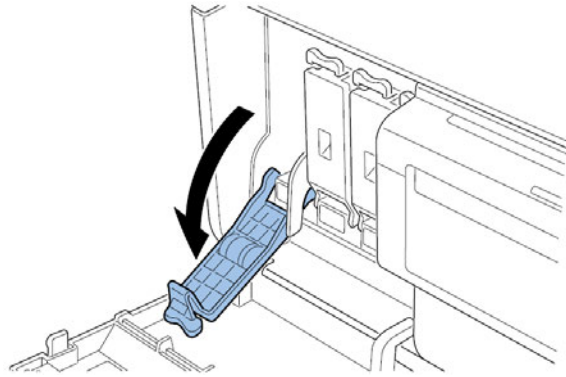


Loading Ink Tanks

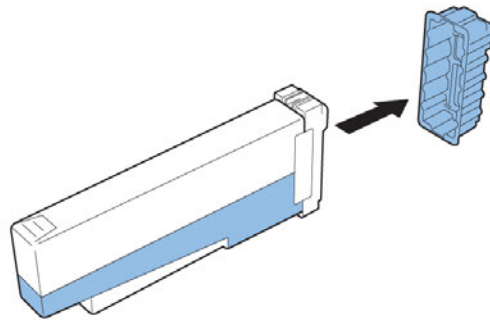
- 1 Open the ink tank door.



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

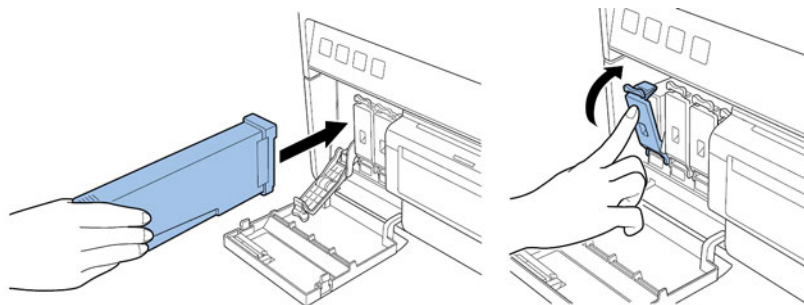


- 3 Take out the starter ink tanks from the package. Then remove the packing materials.



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.

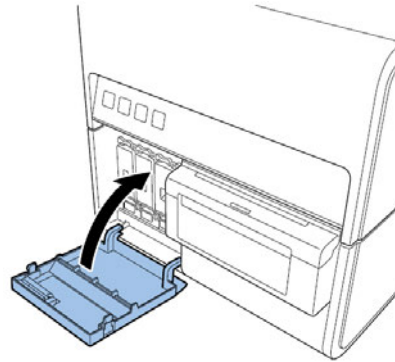
- 4 Slowly insert the ink tank as far as it will go, and then close the ink tank lever. Repeat this step for each color.



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 the wrong ink tank slots. Do not attempt to insert ink tanks in the wrong ink tank slots forcibly.

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

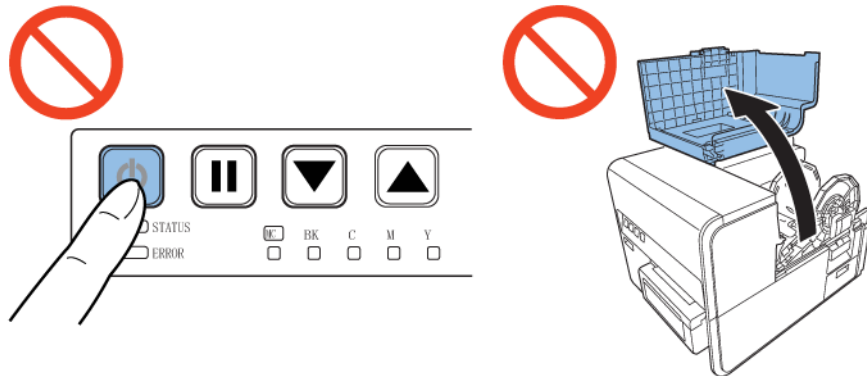


Initial Ink Filling

Caution: Do not turn the power off or open covers and doors such as the Roll Cover during ink loading.

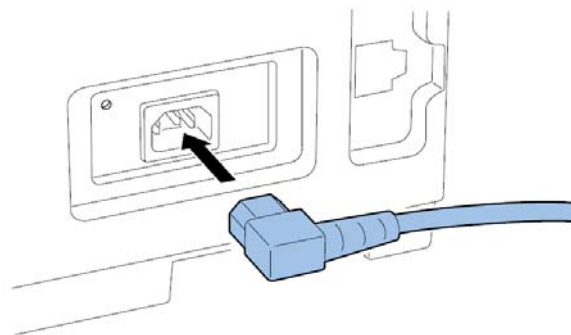
Caution: If the power is turned off or covers and doors are opened during ink loading, the printer stops ink loading. In such a case, turn on the power to start ink loading again.

Caution: Restarting the ink loading causes extra ink waste.



- 1 Connect the power cord to the printer. Several power cords come with 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 Press the POWER key for one second or more to turn on the power. Initial ink filling starts automatically when the power is turned on.

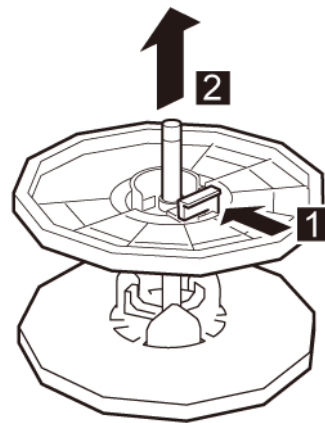
When ink loading is complete, the STATUS LED changes from flashing to lit and a beep sounds.

Note: Initial ink loading takes about 25 minutes.

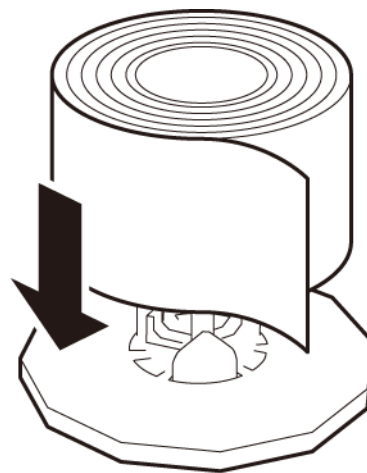
Loading Media

Loading Media on the Roll Holder

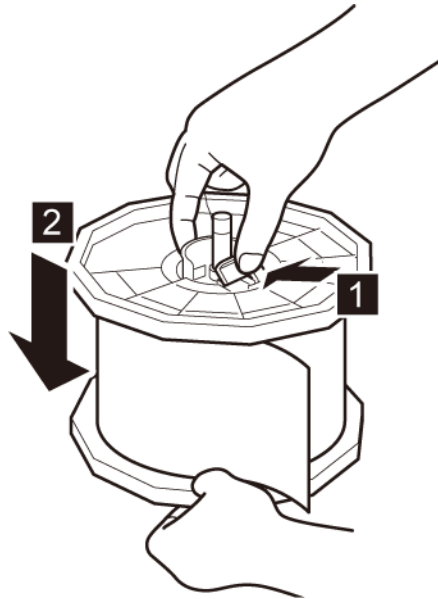
- 1 While pushing the holder stopper release lever, remove the holder stopper from the roll holder.



- 2 Load roll media on the roll holder with it oriented as shown such that the bottom of the roll touches the roll holder surface with no clearance.



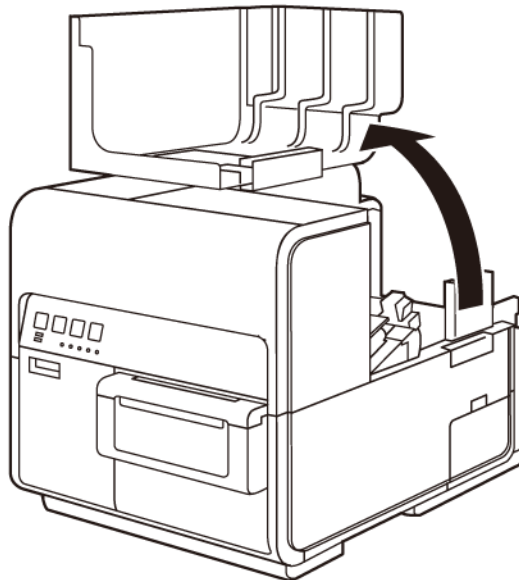
- 3 While pushing the holder stopper release lever, insert the holder stopper until it stops.



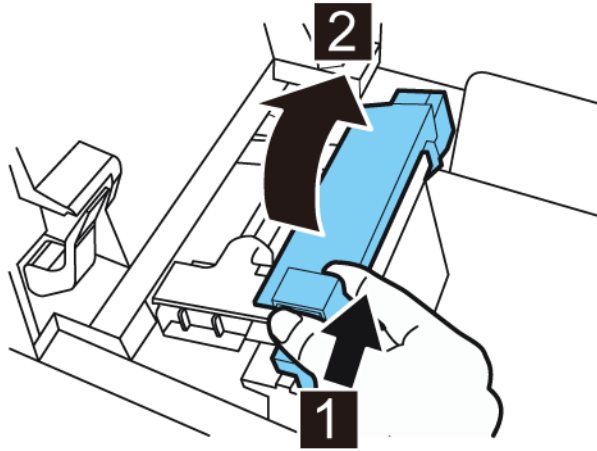
Release the holder stopper release lever.

Setting the Media in the Printer

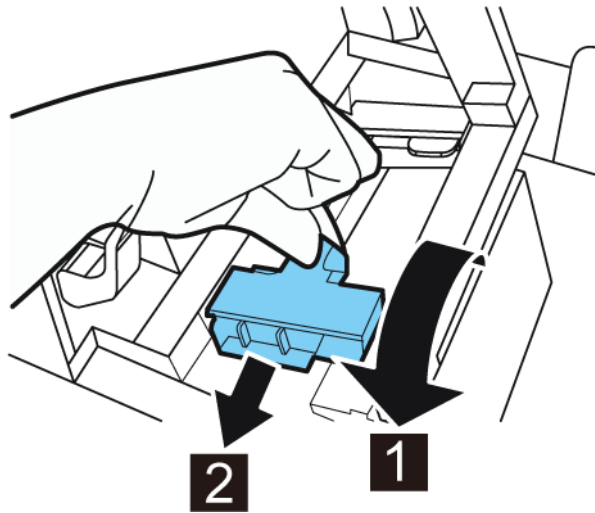
- 1 Make sure that the Power LED stays lit. If the Power LED does not stay lit or it is not blinking, press the power key to put the printer in the power-on state.
- 2 Open the roll cover.



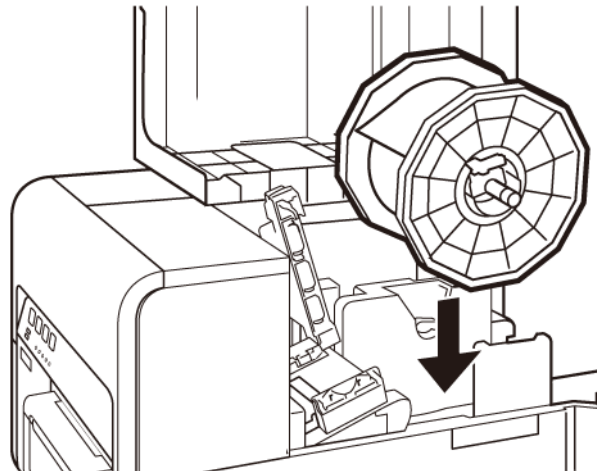
- 3 Push the lever of the paper guide to open the guide.



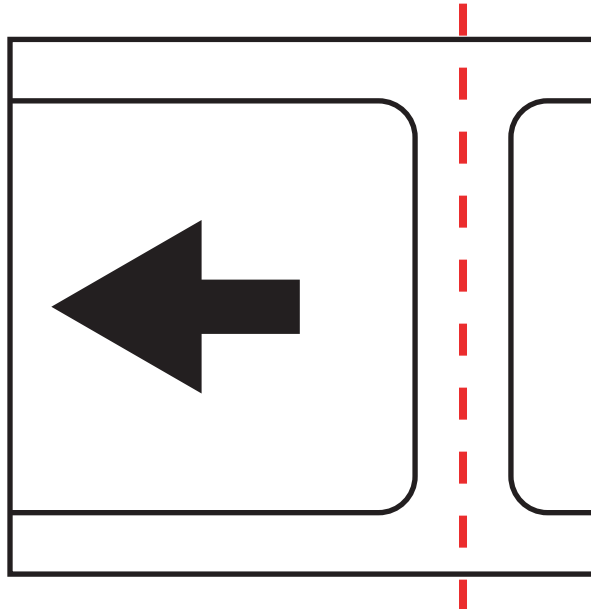
- 4 Open the transport guide (right), and slide it rightward until it stops.



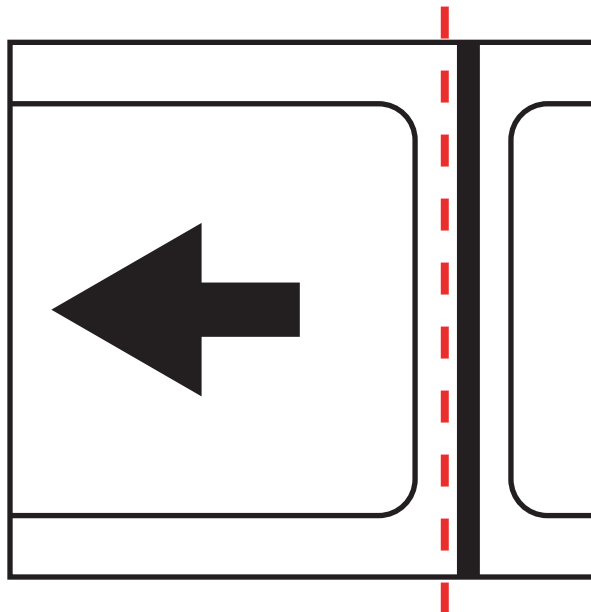
- 5 Mount the roll holder in the printer.



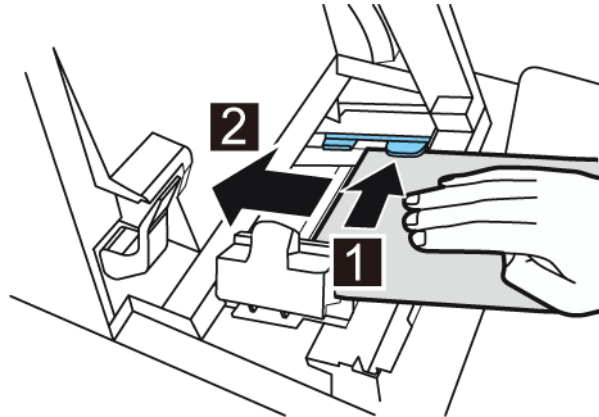
- 6 If you are using gap or reflective mark media, cut the media edge that will be fed into the printer. If you are using continuous media, skip this step.
- If you are using gap media, cut the media between labels as illustrated by the dashed red line below. The arrow indicates the direction of media feed into the printer.



- If you are using reflective mark media, cut the media between labels, but before the mark, as illustrated by the dashed red line below. The arrow indicates the direction of media feed into the printer.

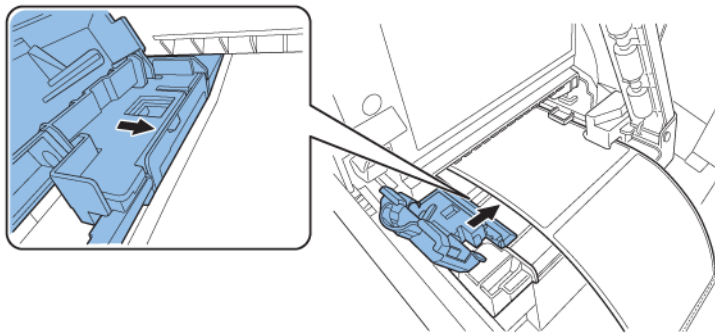


- 7 Insert media along the left-side guide under the transport guide (left) until it stops at the roller in the feeder slot.



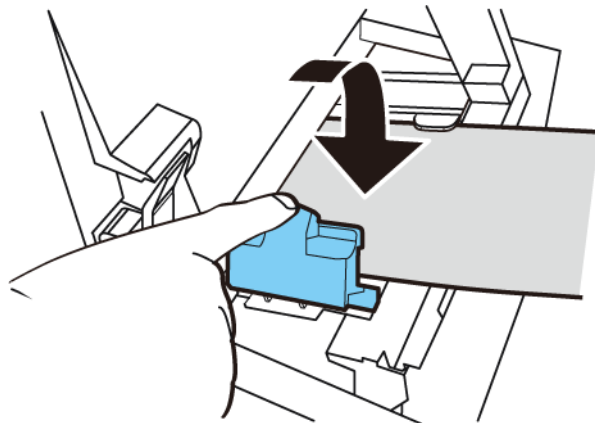
Media at the roller in the feeder slot is automatically pulled in slightly.

- 8 Slide the transport guide (right) in accordance with the width of the media.

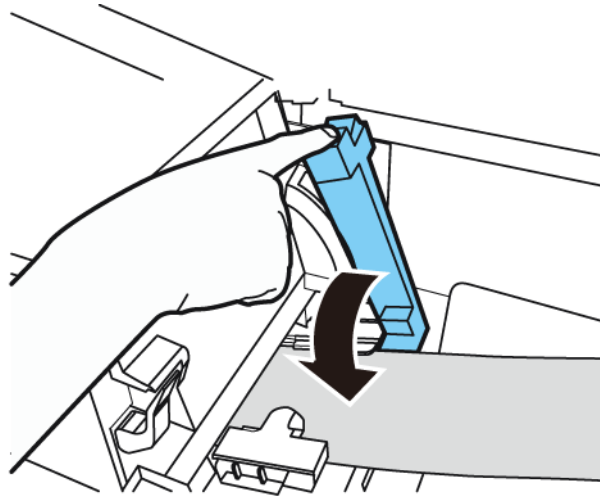


Note: Do not press the transport guide (right) strongly against the media edge. A paper jam can result.

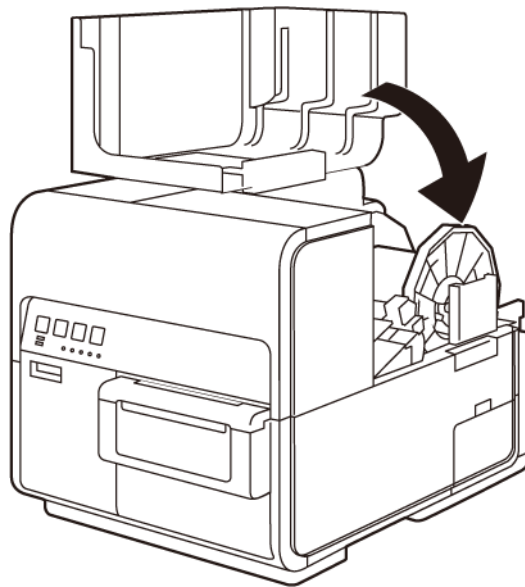
- 9 Slowly close the transport guide (right) to lock it.



- 10 Slowly push the paper guide down until it clicks (locks). When it locks, media is transported automatically.



- 11 Close the roll cover.



Installing the Printer Driver (USB)

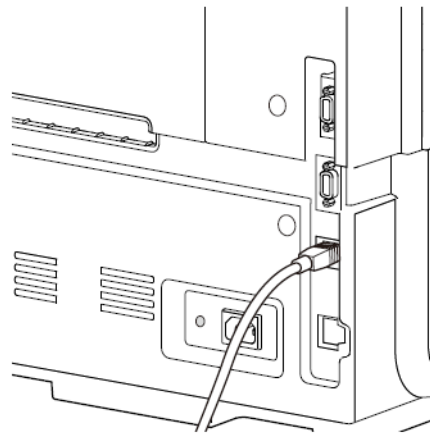
Use the following instructions to install the printer via USB 2.0 on Windows XP, Windows Vista, Windows 7, or Windows 8.

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 QL-111 is powered on but **not** connected to your computer via the USB cable.
- 2 Obtain the installer package from the QuickLabel Systems web site. Launch the installer to open the installation wizard. Choose **Next**.
- 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 QL-111 Maintenance Utility when prompted.

Choose Finish in the installation wizard after successfully installing the QL-111 Maintenance Utility and driver.

- 4 Connect the smaller end of the USB cable to the QL-111 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

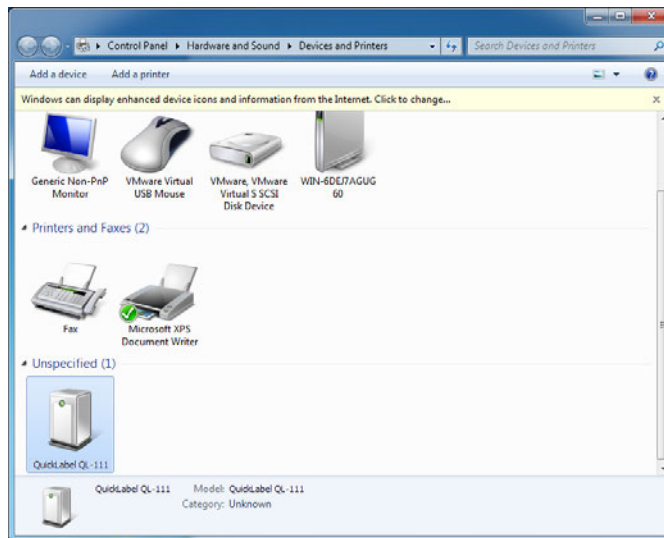
When you install the printer driver via USB, you first run the installation wizard and then connect the printer to your PC via the USB cable.

If you connected the USB cable before running the installation wizard, Windows 7 and Windows 8 will not recognize the printer correctly. In this case, the QL-111 will be listed as an Unspecified item in the Devices and Printers window.

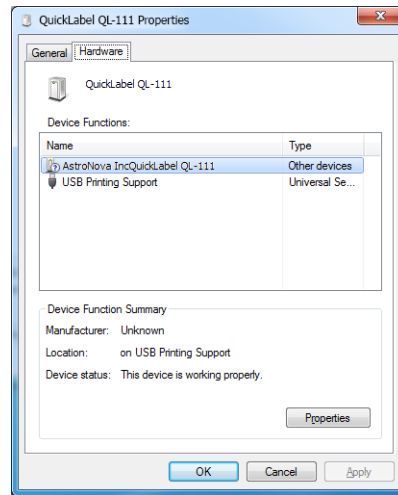
Use the following procedure to correct this issue. This procedure assumes you have already installed the printer driver.

Note: This procedure requires administrator level access in Windows.

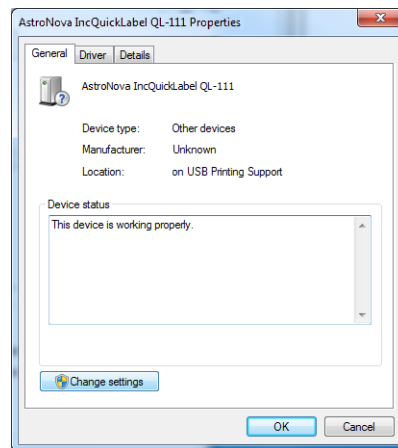
- 1 Open the Devices and Printers window in Windows 7 or Windows 8.



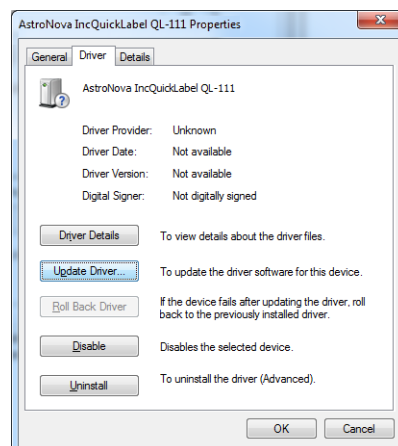
- Right-click the QuickLabel QL-111 in the Unspecified list. Then choose **Properties**. The QuickLabel QL-111 Properties window will open. Choose the **Hardware** tab.



- Select AstroNova IncQuickLabel QL-111 and choose **Properties**. The Properties window will open. Choose the **General** tab.



- 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)

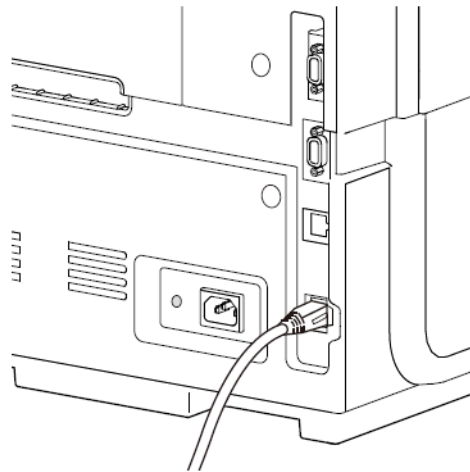
Use the following instructions to install the printer via a network connection on Windows XP, Windows Vista, Windows 7, or Windows 8.

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, UPD 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 Obtain the installer package from the QuickLabel Systems web site. Launch the installer to open the installation wizard. Choose **Next**.
- 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 QL-111 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 QL-111 Maintenance Utility when prompted.

Choose Finish in the installation wizard after successfully installing the QL-111 Maintenance Utility and driver.

About the QL-111

The affordable QL-111 is the cutting-edge *color* inkjet barcode label printer that has been designed specifically for industrial businesses, warehouses and packaging, manufacturing and distribution facilities that need to identify and label cartons and secondary packaging of all types. With digital in-house printing at native 600 dpi resolution, you can print variable color carton labels for footwear, hardware labels, electrical products, lighting and lighting component and industrial product labels.

Supply chain applications include color warehouse labels that contain product photography, color coding and barcodes for easy identification. Plus, with a QL-111 label printer, your packaging line becomes LEAN, with limited waste and on-demand label printing for any size product run. The QL-111 can also be integrated with automatic labeling equipment of various types utilizing QuickLabel's remote pause module for color print-and-apply automation.

The traditional two-step process of pre-printing color labels and then over-printing them with barcodes and variable data is costly, inflexible and prone to mislabeling errors. The QL-111 maintains an essential part of LEAN manufacturing that allows you to save a step and print complete labels on-demand, replacing your purchased pre-printed labels and traditional barcode printers. By starting from blank stock, the QL-111 prints industrial labels direct from digital sources such as enterprise systems, barcode labeling software or graphic design software.

The QL-111 excels at delivering essentials such as JIT production, clear-cut text and barcodes, durability and integration. It even allows for private labeling and compliance labels that meet retail customer specifications. Print labels in-house and on-demand, gaining the ability to maintain full production control and easily eliminate errors that can lead to federal fines.

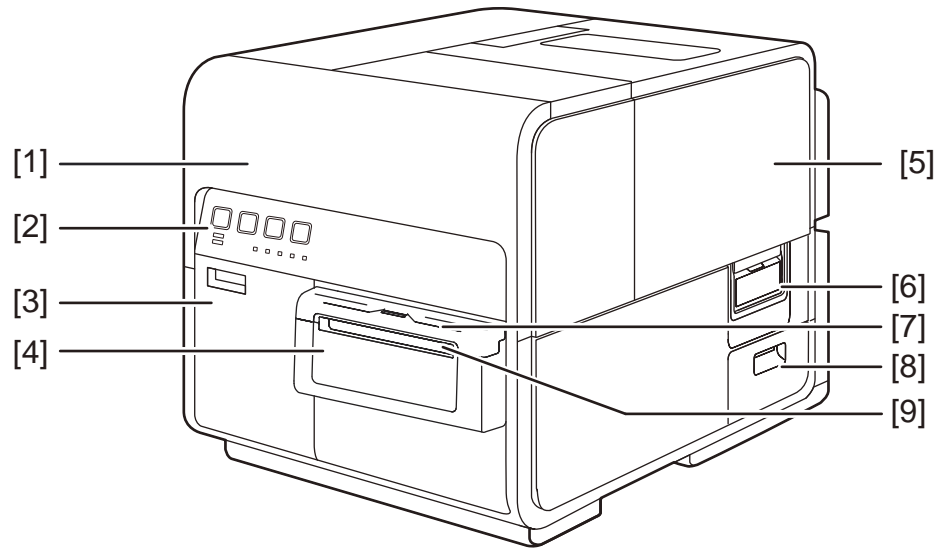
The compact size of the QL-111 makes it easy to integrate into any production line or packaging room operation. The QL-111 comes with a starter set of inks, our One-Year Parts and Labor Warranty, a Windows driver that supports printing from many types of 3rd party applications, onboard command interface language for remote print control, and our Custom QuickLabel® Omni Software suite for label creation and print management, allowing you to work with and print from graphic design programs such as Adobe Photoshop® and Illustrator®.

The QL-111 is a Total Solution for cost-effective color label printing designed for reliable printing and durable labels when using genuine QuickLabel inks and label supplies.

To get started printing color labels designed for your industrial label, warehouse or supply chain application, contact QuickLabel Systems today and ask for information or a free onsite demonstration.

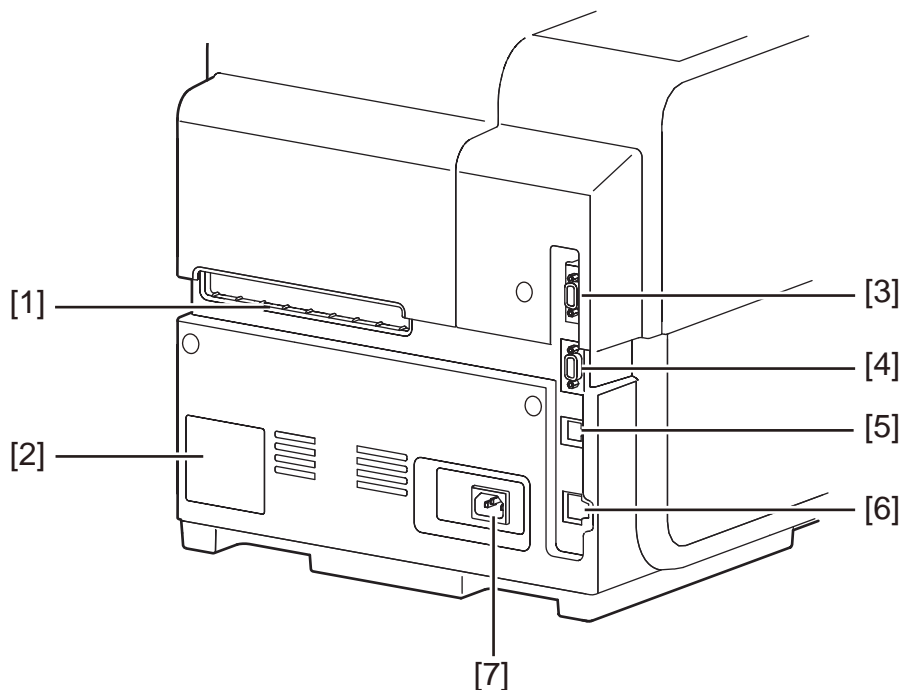
Printer Part Names and Functions

Front View



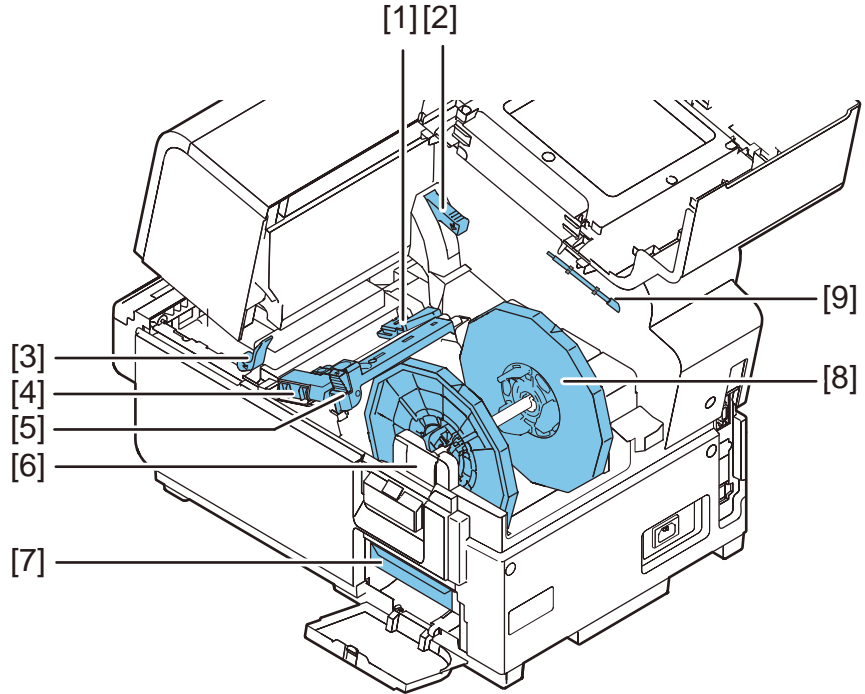
#	Part	Description
1	Upper Unit	Open this unit when loading media, removing media jams in the feed path, or cleaning inside the machine. This unit includes print modules, circuit boards, and other internal components.
2	Operation Panel	Keys necessary for operation and LEDs to indicate the state of the printer are provided on this panel.
3	Ink Tank Door	Open this door when replacing ink tanks.
4	Manual Cutter	Use this cutter to cut the ejected media manually.
5	Roll Cover	This cover protects the roll media feeder.
6	Roll Cover Handle	Use this handle to open the roll cover.
7	Cutter Cover	Open this cover when using the manual cutter.
8	Maintenance Cartridge Door	Open this door when replacing the maintenance cartridge.
9	Media Delivery Slot	Media is ejected through this slot.

Back View



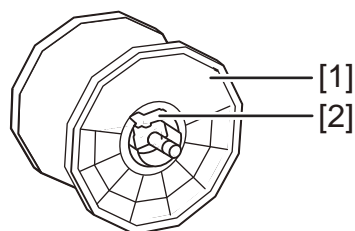
#	Part	Description
1	Rear Feeder Slot	This slot is used to feed fanfold paper.
2	Rating Plate	A serial number for identifying the printer is shown on this plate. The serial number is required when you ask for repair of the printer or to register yourself as a user.
3	RS232C Port	Reserved.
4	RS232C Port	This port is used for the external control interface. For more information, refer to the Command Interface Guide.
5	USB Port	Connect a USB cable here to connect to the computer.
6	LAN Port	Connect a LAN cable here to connect to the computer.
7	Power Socket	Connect the power cord here.

Inside the Printer



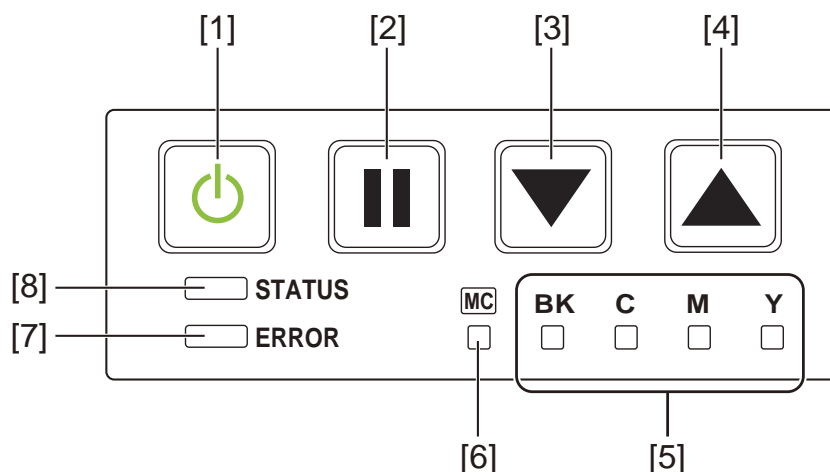
#	Part	Description
1	Transport Guide (Left)	This is a fixed guide for transporting media straight.
2	Upper Unit Release Lever	Push this lever up to release the upper unit.
3	Pinch Roller Release Lever	Pull down this lever when media is jammed.
4	Transport Guide (Right)	This guide is used to transport media straight and detect the width of the media.
5	Media Guide	This guide prevents media from floating.
6	Roll Holder Mounting Brackets	Set the roll holder here.
7	Maintenance Cartridge	Ink used to clean the print head is collected here.
8	Roll Holder	This holder is used to set media.
9	Cleaning Stick	Use this cleaning stick when cleaning the transport assembly.

Roll Holder



#	Part	Description
1	Holder Stopper	This stopper prevents media from being removed.
2	Holder Stopper Lock/Release Lever	This lever is used to release the holder stopper. Push this lever when attaching or detaching the holder stopper.

Operation Panel



#	Part	Description
1	Power Key/LED	<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.

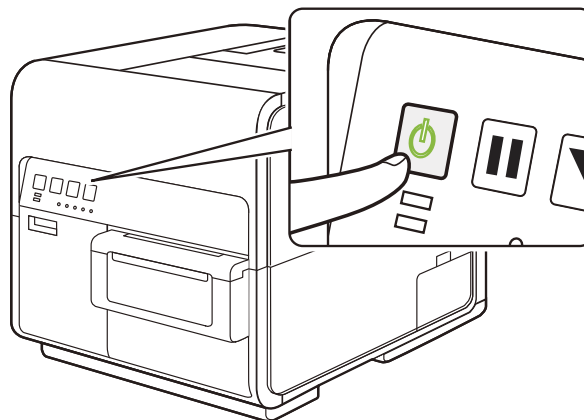
#	Part	Description
3	FEED Key	Pressing this key in the offline mode feeds media.
4	BACK FEED Key	Pressing this key feeds media one page backward. Pressing and holding this key feeds media backward continuously.
5	Ink Warning LEDs	<ul style="list-style-type: none"> • <i>On</i> - No ink or ink tank missing. • <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	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.
8	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.

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

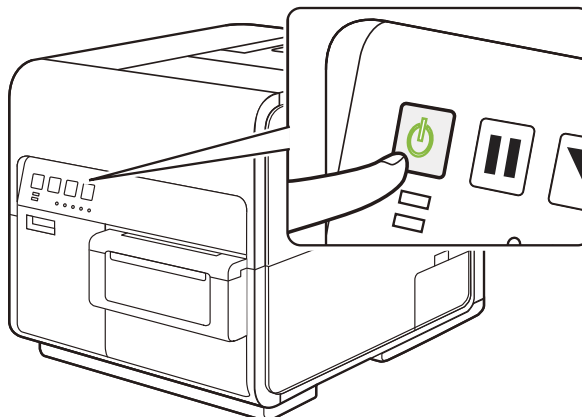


Cleaning is performed and the printer becomes ready for printing. When the printer is in the Online mode, the STATUS LED stays lit.

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 blinks at long intervals, and then the printer is turned off.

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

- To prevent media from discoloring, remove it from the roll holder. 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

QL-111 Label Materials

QuickLabel develops QL-111 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 QL-111 and the supplies, QuickLabel has the advantage of providing you with lower prices due to production efficiencies. QuickLabel's QL-111 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 QL-111 Support

We provide factory-direct technical support for the QL-111 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 QL-111 purchase.

We offer additional support in the form of an optional Customer Support Agreement, which acts as an extended warranty for your QL-111. 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 QL-111 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 QL-111, 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 QL-111 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.

Setting up the Label Design Software

This section describes how to set up your label design software to print on the QL-111.

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

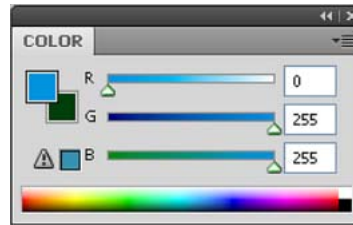
You can design and print label files exclusively within a third-party application such as Adobe Photoshop or Illustrator. In this situation, use the following guidelines to ensure best results.

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 600 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 QL-111 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.

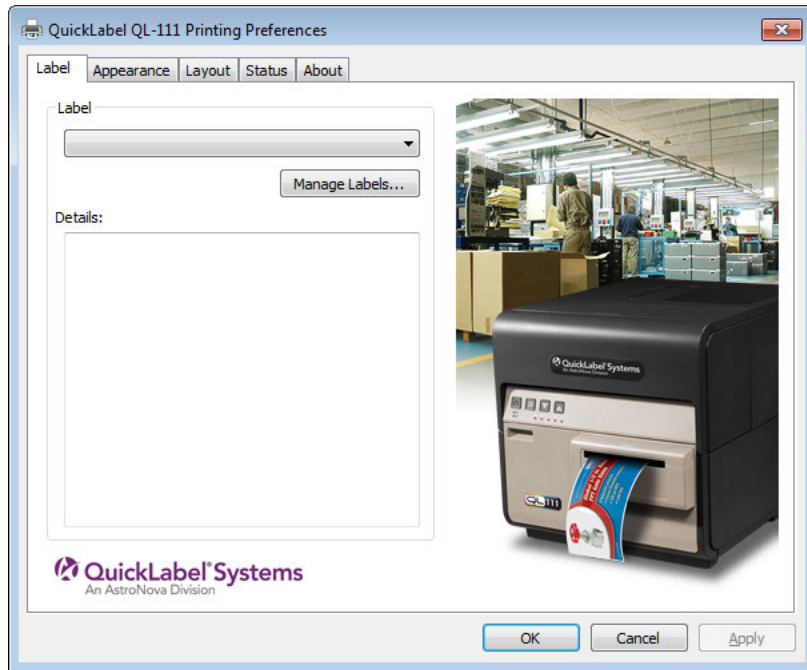
Note: *Driver instructions apply only to printing via third party design applications. If you are using Custom QuickLabel Omni, this process is not required.*

- 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 QL-111 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 QL-111 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 42

Setting up a Custom Label Stock

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

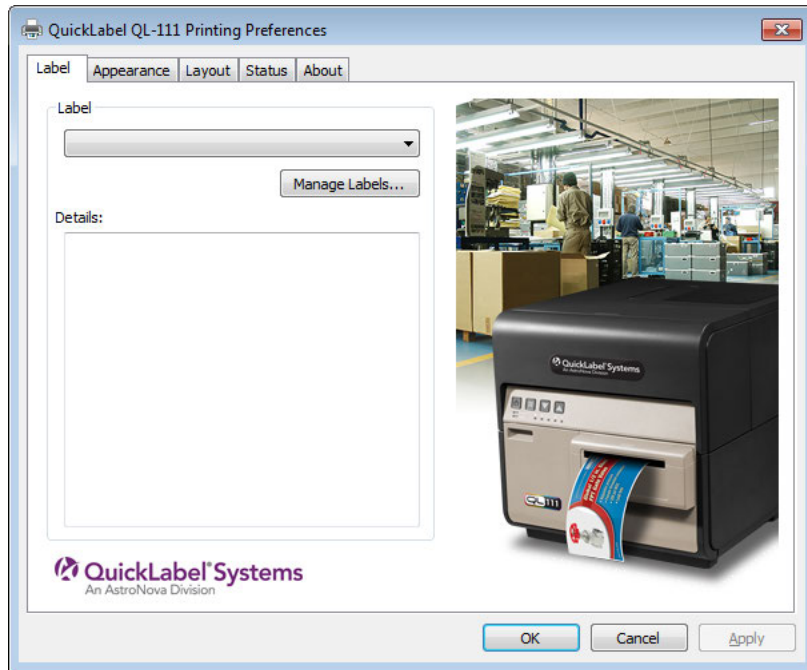
Note: Driver instructions apply only to printing via third party design applications. If you are using Custom QuickLabel Omni, this process is not required.

- 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**.

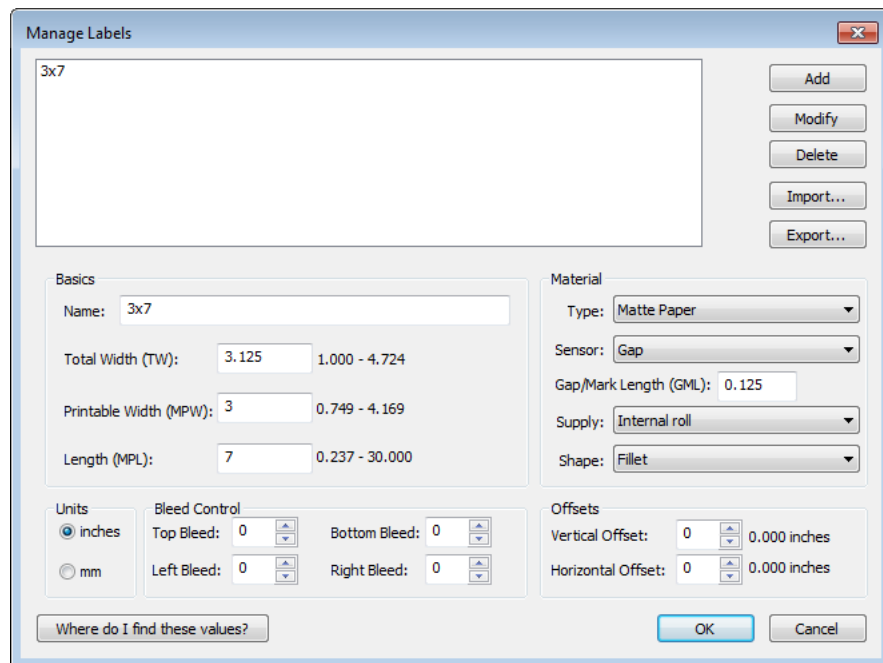
Right-click the printer icon and choose **Printing Preferences**. The QuickLabel QL-111 Printing Preferences window will open.

Note: You can also access the driver preferences via the application's print dialog. From the Print window in your software, select QuickLabel QL-111 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).
 - If you are using gap or reflective mark media, the MPL is printed on a label located inside the cardboard core of the label roll.
 - If you are using continuous media, you will determine length based on the height dimension in your label file. You can view this dimension using your label design application software.
- 9 Select the type of material the label will be printed on.
- 10 Select a sensor type.
 - **Gap** - Choose this option if you are using gap media.
 - **Reflective** - Choose this option if you are using reflective mark media.
 - **None** - Choose this option if you are using media without gap or reflective marks (continuous media).

When printing on continuous media, there will be an unprinted space of approximately 0.125" (3.175 mm) between labels.

If you selected Gap or Reflective, enter the length of the gap or reflective mark (also called GML).

- 11 Select how media is supplied to the printer.
 - **Internal Roll** - Choose this option if you are using a roll of labels installed in the printer.
 - **External** - Choose this option if you are feeding labels from a source outside of the printer.
- 12 Select the shape of the label.
- 13 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.

Each vertical bleed degree increases the label length by .1 mm in the respective vertical 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.
- 14 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 on the label (in toward the printer).
- **Horizontal Offset** - Negative values move the image left on the label. Positive values move the image right on the label.

15 Choose **Add**.

16 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**.

17 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.

18 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.*

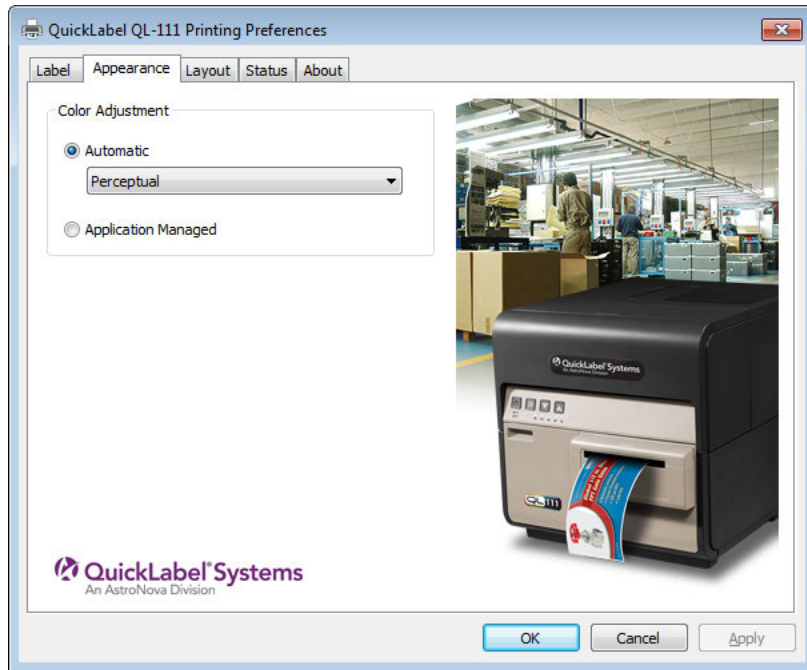
1 Open the appropriate printer window based on your version of Windows.

- 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 QL-111 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 QL-111 from the printer list and choose Properties or Setup (varies based on program).*

2 Choose the **Appearance** tab.



3 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.

4 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.*

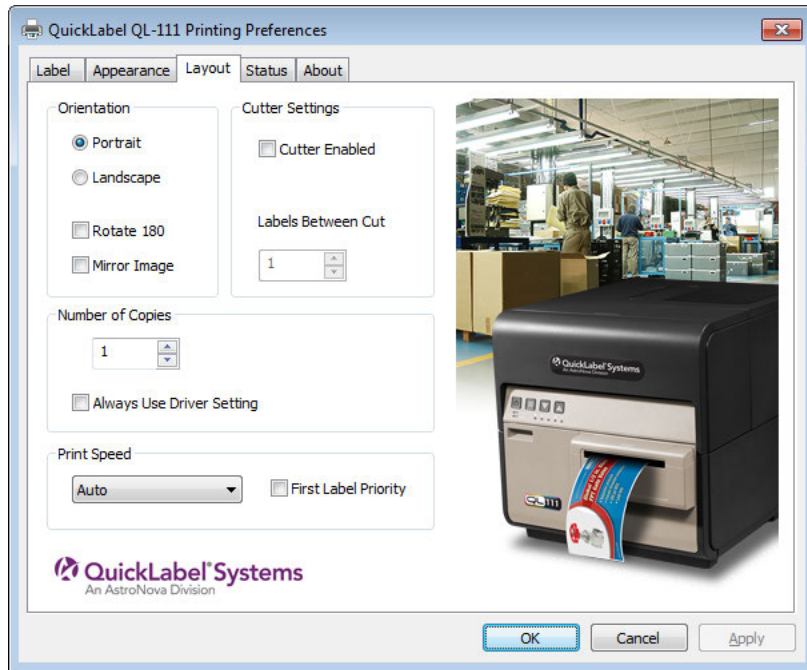
1 Open the appropriate printer window based on your version of Windows.

- 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 QL-111 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 QL-111 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 Select whether to enable first label priority mode. When this mode is enabled, a command will be sent to the printer at the start of a job. This command instructs the printer to start processes for preparing to print.
- 9 If your QL-111 printer has the auto-cutter accessory installed, you can set up the cutter.

- Check the **Cutter Enabled** option to enable the auto-cutter.
- Use the **Labels Between Cut** field to indicate the number of labels to print between each cut.

The minimum cut length is 1.496 inches (38 mm). If you choose to cut between each label, and the label length is shorter than the minimum cut length, the label will print and be advanced an additional label length plus 0.25 inches (6.35 mm) and then cut.

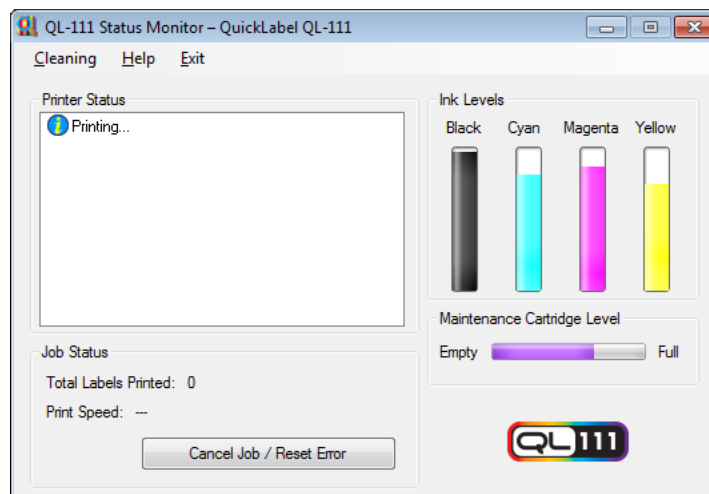
- 10 Choose **OK**.

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 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.*

- 4 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.

- 5 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:

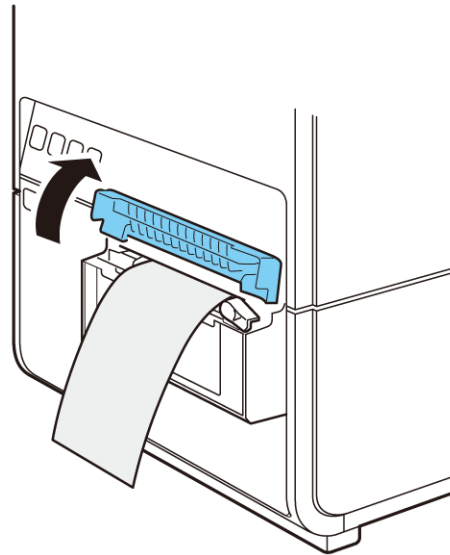
- Using the Manual Cutter on page 50

Using the Manual Cutter

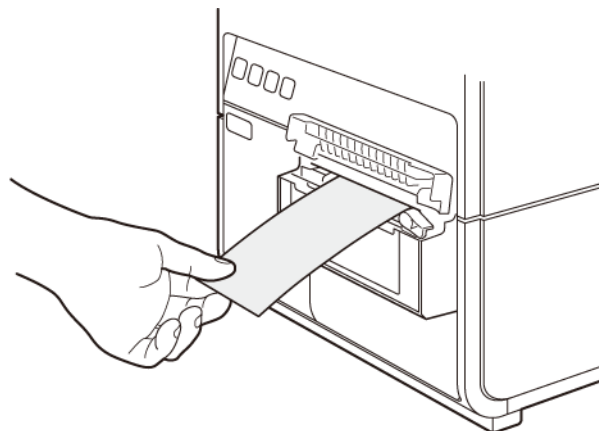
After completion of label printing, cut the label using the manual cutter.

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.

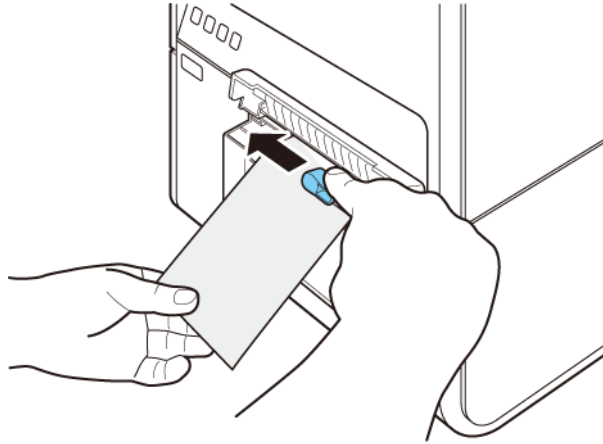
- 1 Open the cutter cover.



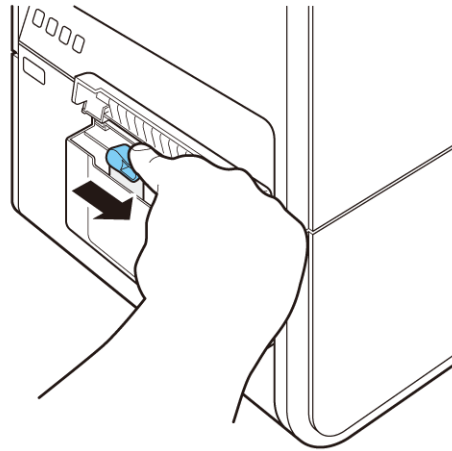
- 2 Hold the printed label as shown. If the printed label is short, press the FEED key to eject paper to the position where you can hold the label with ease.



- 3 Cut the label by moving the cutter as shown while pressing the cutter lightly.



- 4 Return the cutter to the original position, and then close the cutter cover.

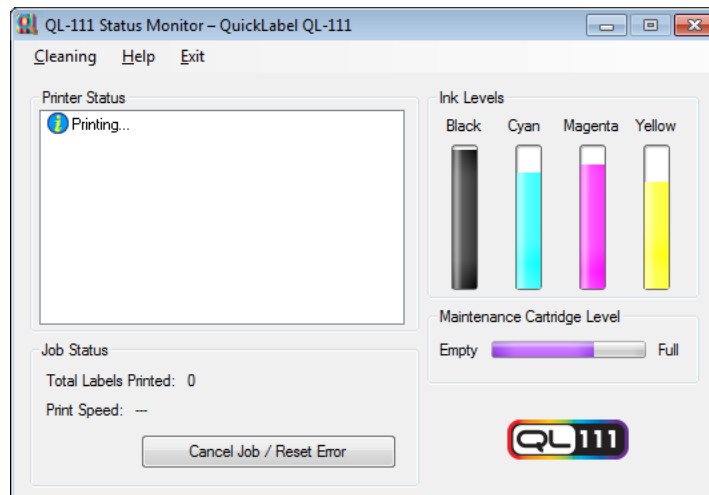


Note: If the cutter has become extremely dull, contact QuickLabel Support. Do not disassemble the cutter.

Using the Status Monitor

Viewing the Printer Status

- 1 Open the QL-111 Status Monitor. You can access the Status Monitor from the Windows Start Menu, QL-111 Maintenance Utility, or the printer driver.
 - From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Status Monitor**.
 - In the QL-111 Maintenance Utility, choose **Status Monitor**.
 - In the QL-111 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). 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.

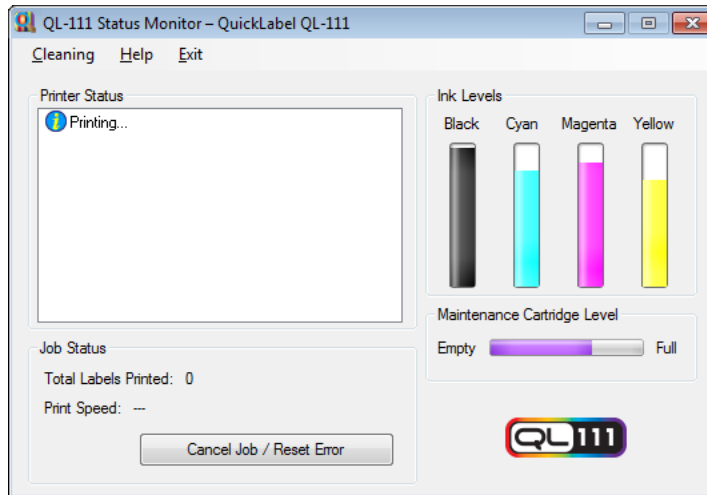
If multiple heavy cleanings do not resolve the issue, contact Technical Support.

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

Viewing the Job Status and Cancelling Jobs

- 1 Open the QL-111 Status Monitor. You can access the Status Monitor from the Windows Start Menu, QL-111 Maintenance Utility, or the printer driver.
 - From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Status Monitor**.
 - In the QL-111 Maintenance Utility, choose **Status Monitor**.

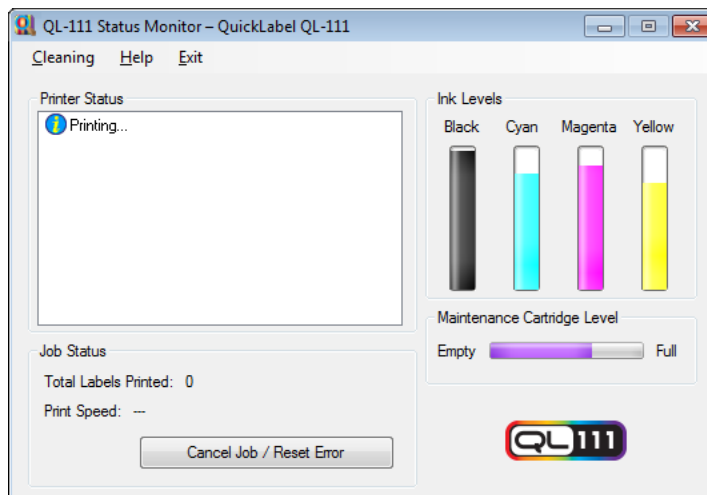
- In the QL-111 printer driver, choose **Status Monitor** from the **Status** tab.



- 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 QL-111 Status Monitor. You can access the Status Monitor from the Windows Start Menu, QL-111 Maintenance Utility, or the printer driver.
 - From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Status Monitor**.
 - In the QL-111 Maintenance Utility, choose **Status Monitor**.
 - In the QL-111 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.

Managing Media Out with the QL-111 Printer

On media out, the QL-111 printer will reprint labels to ensure all labels have been printed. This action produces duplicate labels and the user will need a manual procedure to remove the duplicates, especially if the labels contain information such as barcodes, serial numbers, etc.

When the QL-111 printer runs out of media before completing the print job, it will print all remaining labels including the unfinished, in-progress label when a new roll of labels is loaded in the printer.

For example, during a print job of 10 labels, the printer runs out of media while printing the 6th label and the 4th label does not reach the stop position. When media is loaded and printing resumes, printing will start with the 4th label and continue to the 10th label in the job.

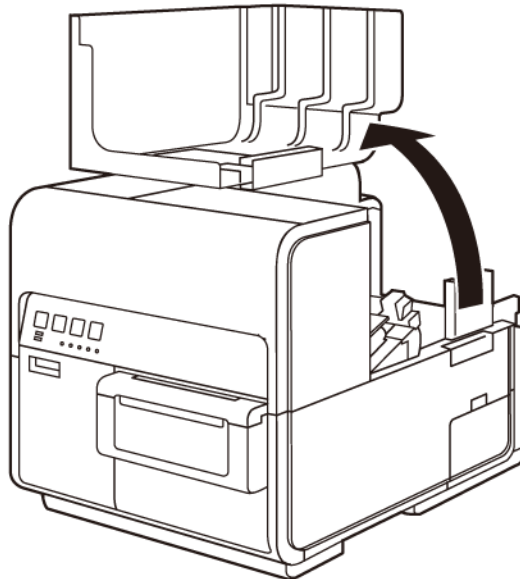
A label is considered printed if it exited the QL-111 and passed the stop position. All labels that did not pass the stop position prior to the media out condition will be reprinted.

Changing or Replacing Media

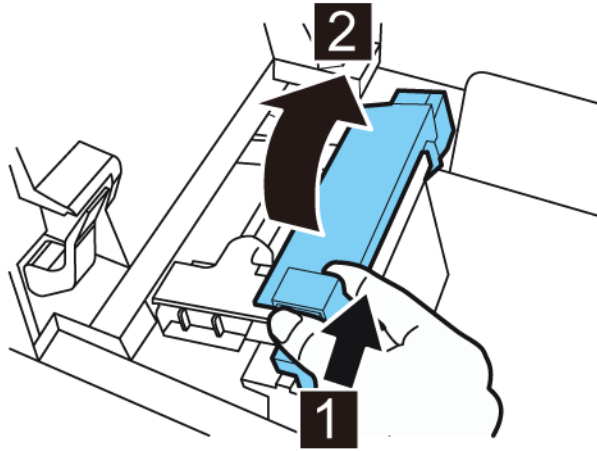
Removing a Media Roll

When changing media before completion of printing, use media of the same size as the media used so far. Using media of a different size can result in an error.

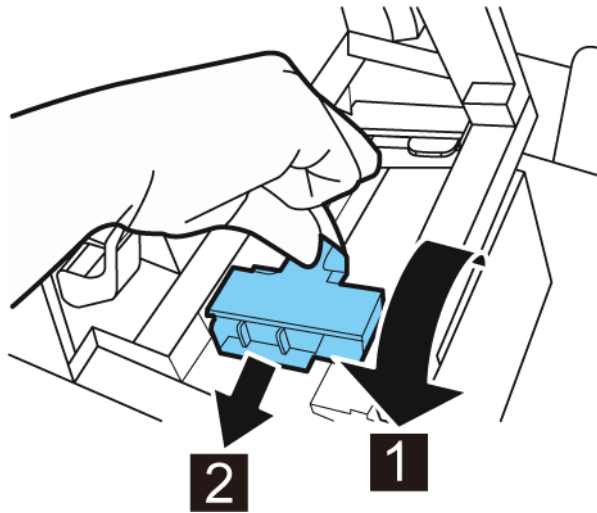
- 1 Open the roll cover.



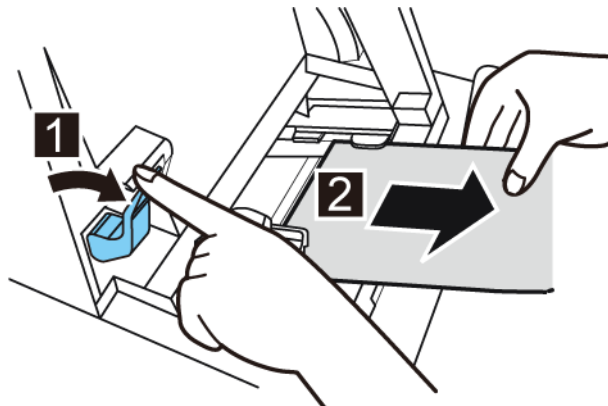
- 2 Push the lever of the paper guide to open the guide.



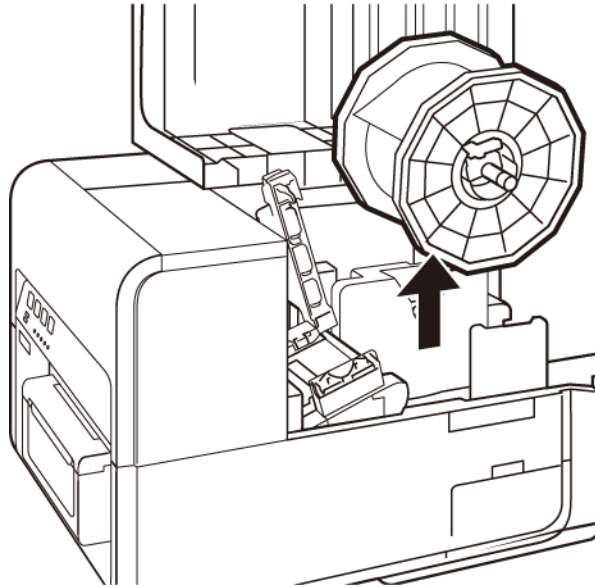
- 3 Open the transport guide (right), and slide it rightward until it stops.



- 4 While pressing the pinch roller release lever, pull out the media.



- 5 Remove the roll holder.

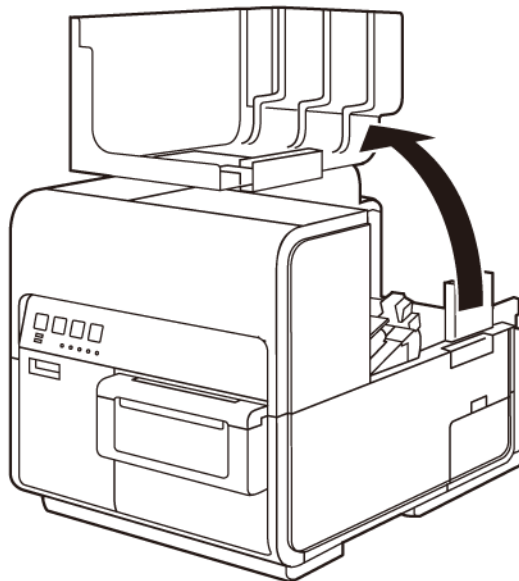


- 6 Remove the roll holder. Remove the media roll from the roll holder.

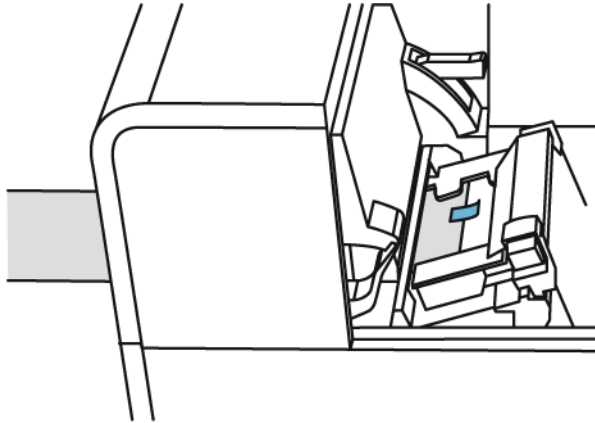
Removing an Empty Media Roll

When the media has been used up, a message will be displayed on the Status Monitor and the printer will stop.

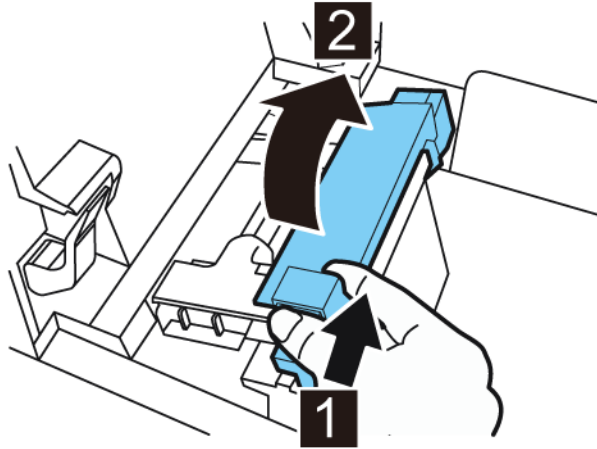
- 1 Open the roll cover.



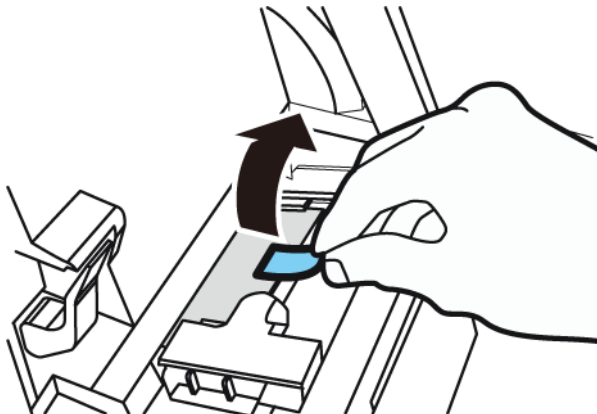
- 2 Locate the tape adhered at the trailing edge of the media.



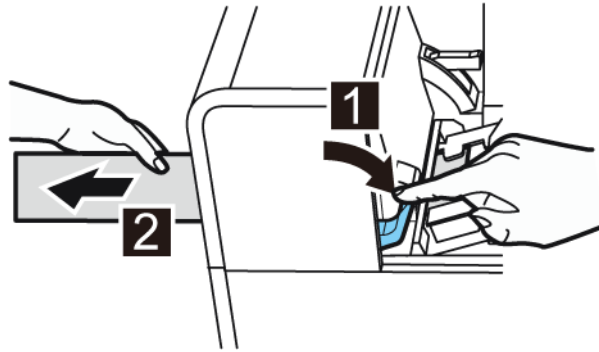
- 3 Push the lever of the paper guide to open the guide.



- 4 Remove the tape.



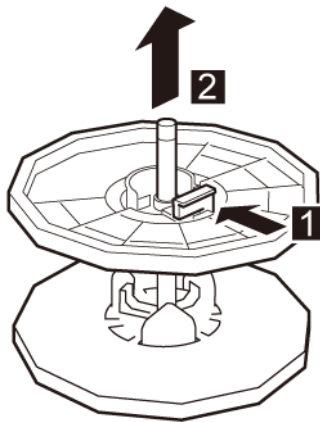
- 5 While pushing the pinch roller release lever, pull out media through the delivery slot.



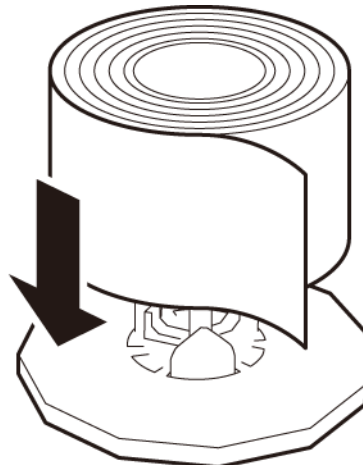
- 6 Remove the empty roll holder. Remove the empty roll core from the roll holder.

Loading Media on the Roll Holder

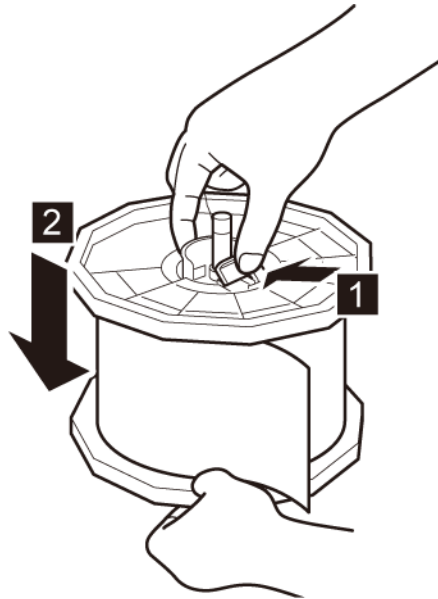
- 1 While pushing the holder stopper release lever, remove the holder stopper from the roll holder.



- 2 Load roll media on the roll holder with it oriented as shown such that the bottom of the roll touches the roll holder surface with no clearance.



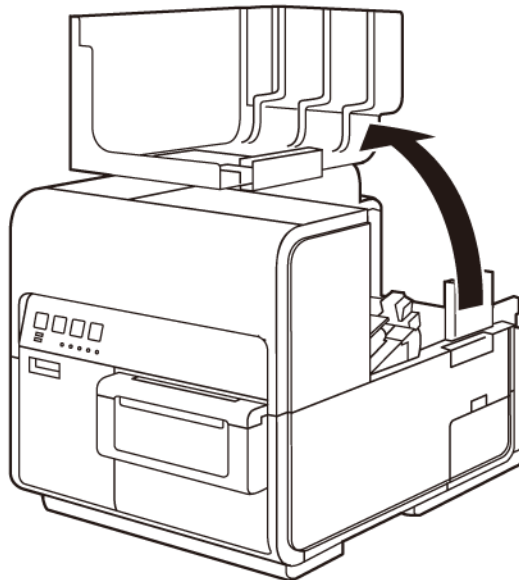
- 3 While pushing the holder stopper release lever, insert the holder stopper until it stops.



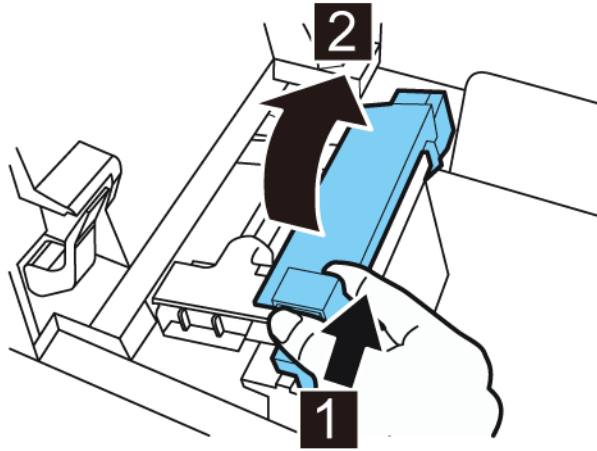
Release the holder stopper release lever.

Setting the Media in the Printer

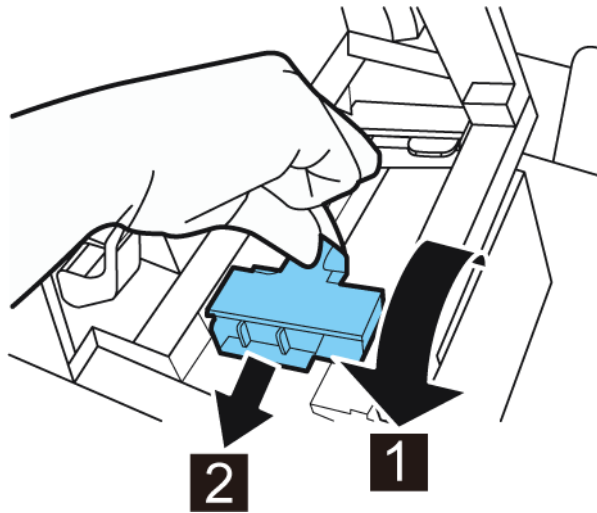
- 1 Make sure that the Power LED stays lit. If the Power LED does not stay lit or it is not blinking, press the power key to put the printer in the power-on state.
- 2 Open the roll cover.



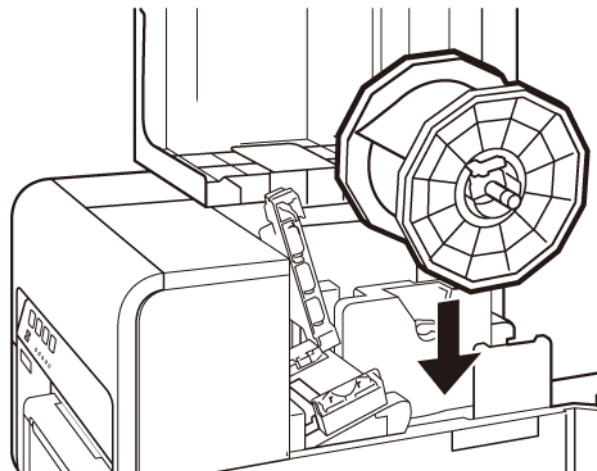
- 3 Push the lever of the paper guide to open the guide.



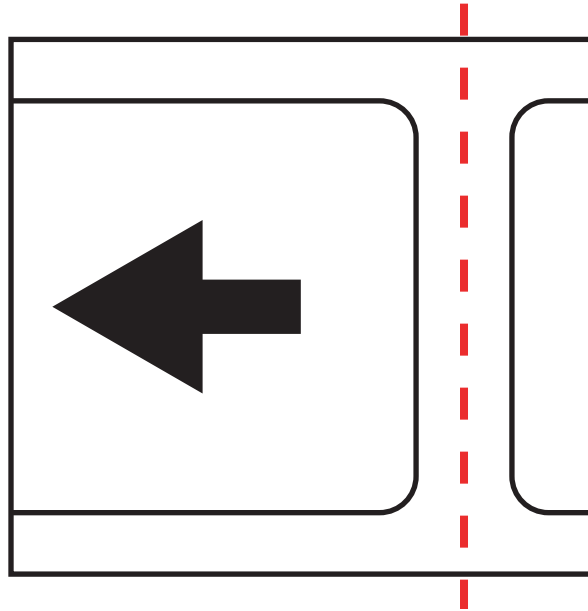
- 4 Open the transport guide (right), and slide it rightward until it stops.



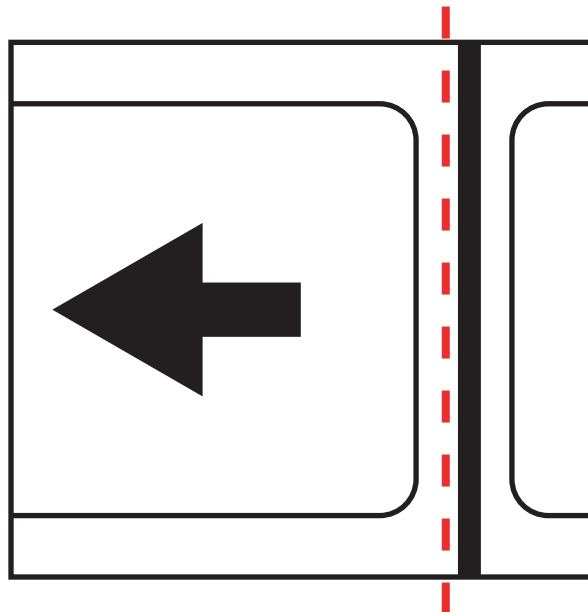
- 5 Mount the roll holder in the printer.



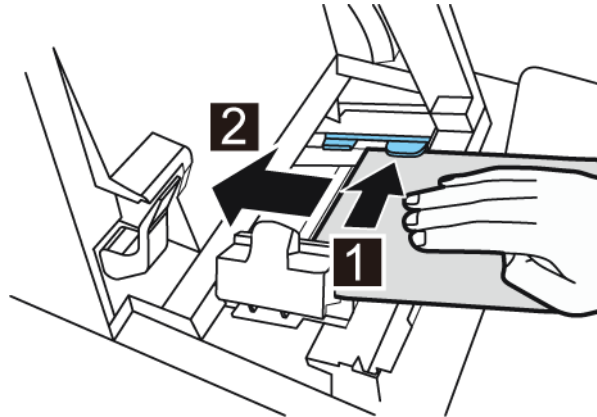
- 6 If you are using gap or reflective mark media, cut the media edge that will be fed into the printer. If you are using continuous media, skip this step.
- If you are using gap media, cut the media between labels as illustrated by the dashed red line below. The arrow indicates the direction of media feed into the printer.



- If you are using reflective mark media, cut the media between labels, but before the mark, as illustrated by the dashed red line below. The arrow indicates the direction of media feed into the printer.

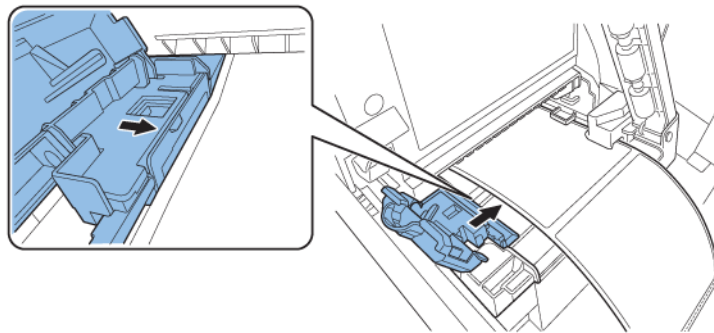


- 7 Insert media along the left-side guide under the transport guide (left) until it stops at the roller in the feeder slot.



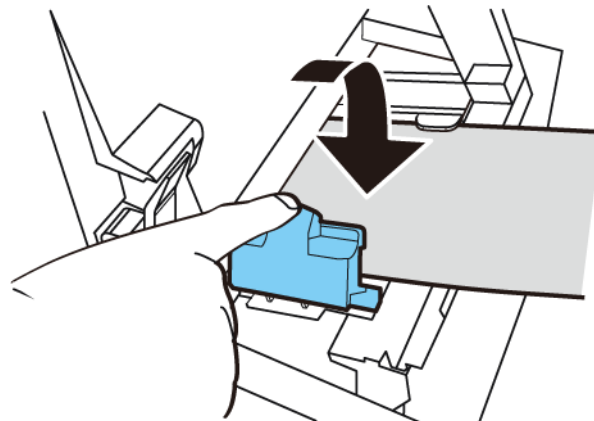
Media at the roller in the feeder slot is automatically pulled in slightly.

- 8 Slide the transport guide (right) in accordance with the width of the media.

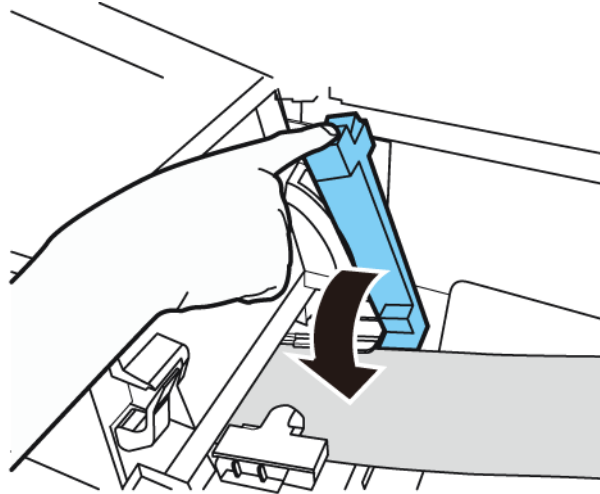


Note: Do not press the transport guide (right) strongly against the media edge. A paper jam can result.

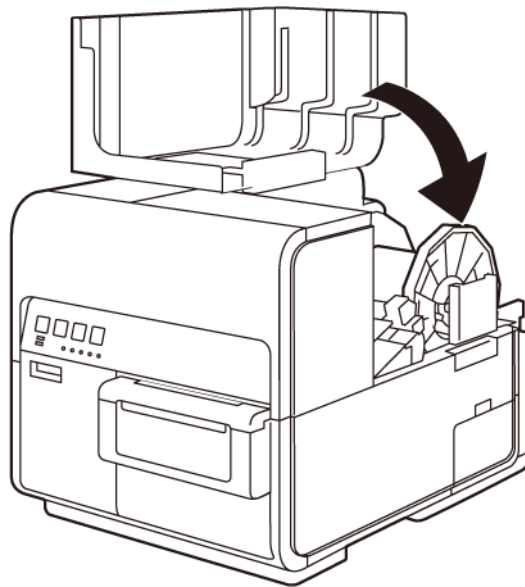
- 9 Slowly close the transport guide (right) to lock it.



- 10 Slowly push the paper guide down until it clicks (locks). When it locks, media is transported automatically.



- 11 Close the roll cover.



4

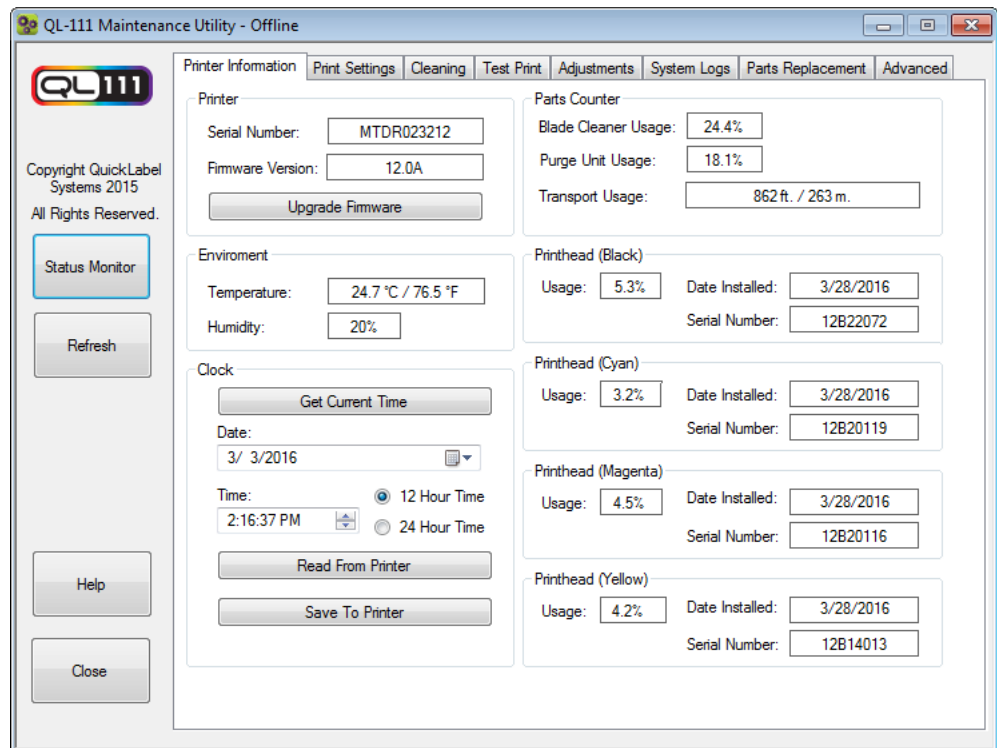
QL-111 Maintenance Utility

About the Maintenance Utility

The QL-111 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 QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 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.
- **Environment** - This section provides the current temperature and humidity of the printer location.
- **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.

- **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 88](#)

Upgrading the Printer Firmware

1 Ensure a QL-111 Firmware file (*.udf) is accessible from your PC.

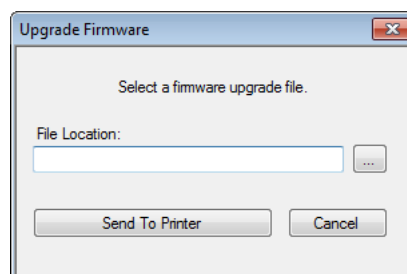
2 Launch the QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 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 QL-111 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 QL-111 Maintenance Utility.

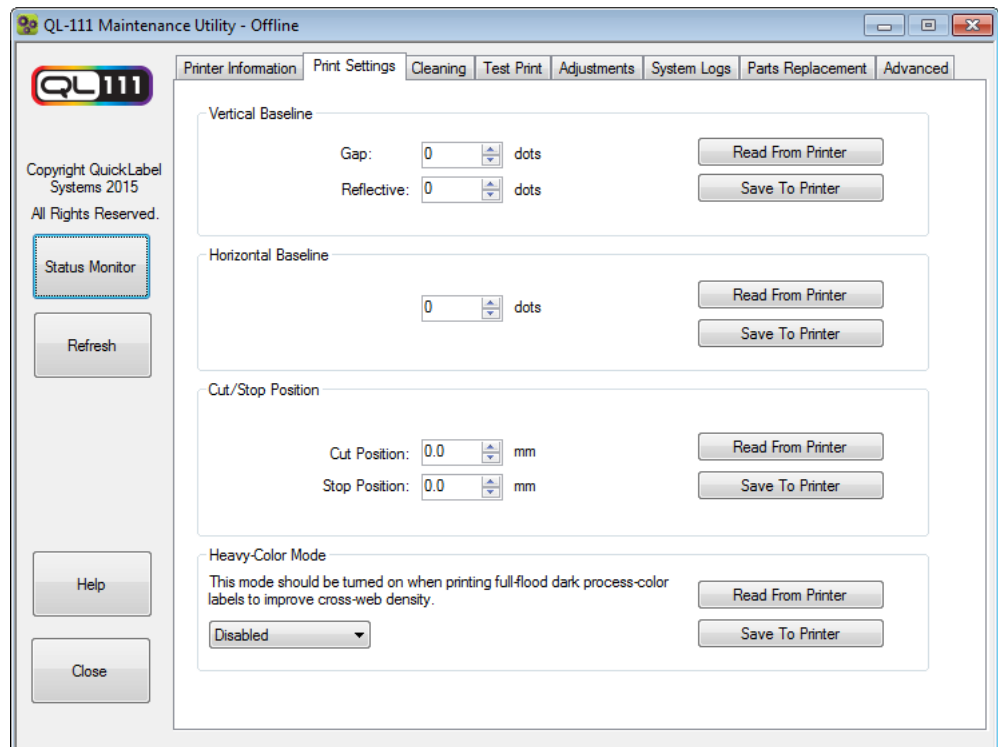
From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 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**.

Print Settings Tab

Use the **Print Settings** tab to adjust the vertical baseline, horizontal baseline, cut position, stop position, and heavy-color mode.



Setting the Vertical Baseline

The gap and reflective vertical baseline settings adjust the start of printing for gap or reflective media. You can adjust the baseline -200 to +200 dots.

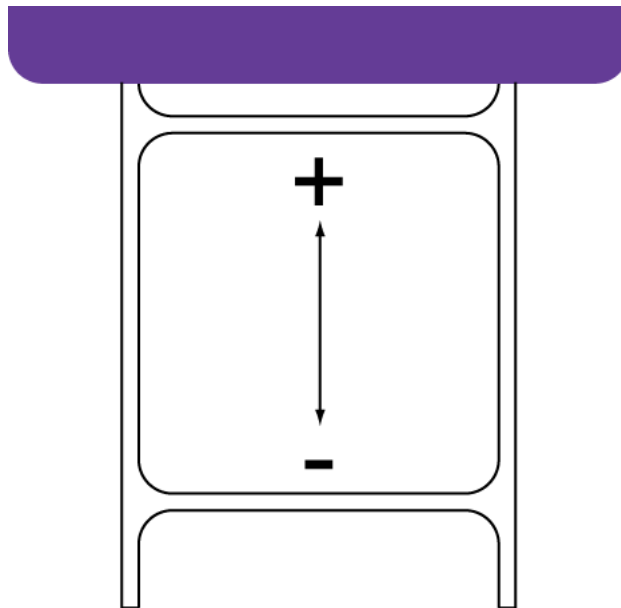
- 1 Launch the QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 printer you want to connect to. Choose **OK**.

- 2 Choose the **Print Settings** tab.
- 3 To read the vertical baseline values from the printer and set the **Gap** and **Reflective** controls accordingly, choose **Read From Printer**.
- 4 Enter vertical baseline values for Gap and Reflective media.

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



- 5 To save the vertical baseline values, 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 -200 to +200 dots.

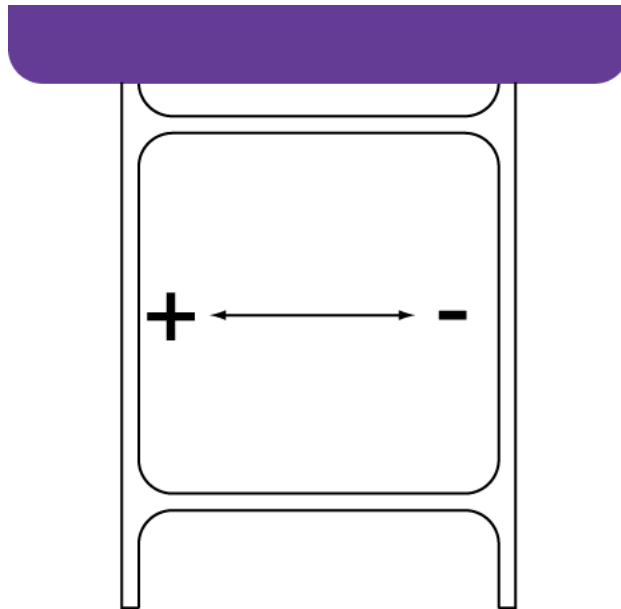
- 1 Launch the QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 printer you want to connect to. Choose **OK**.

- 2 Choose the **Print Settings** 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 Cut and Stop Positions

The Cut Position and Stop Position settings adjust the position at which the media is fed after printing.

- If you are using an optional cutter, media is fed based on the Cut Position setting.
- If you are not using an optional cutter, media is fed based on the Stop Position setting.

- 1 Launch the QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 printer you want to connect to. Choose **OK**.

- 2 Choose the **Print Settings** tab.
- 3 To read the cut position and stop position values from the printer and set the **Cut Position** and **Stop Position** controls accordingly, choose **Read From Printer**.

- 4 Enter a cut position value. This value will be used when an optional cutter is attached.
 - 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.

You can adjust the cut position -10 to +10 mm.

- 5 Enter a stop position value. This value will be used when an optional cutter is not attached.
 - 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.

You can adjust the stop position -10 to +121 mm.

- 6 To save the cut position and stop position values, choose **Save to Printer**.

Using Heavy-Color Mode

Heavy-color mode should be enabled when printing full-flood dark process-color labels to improve cross-web density.

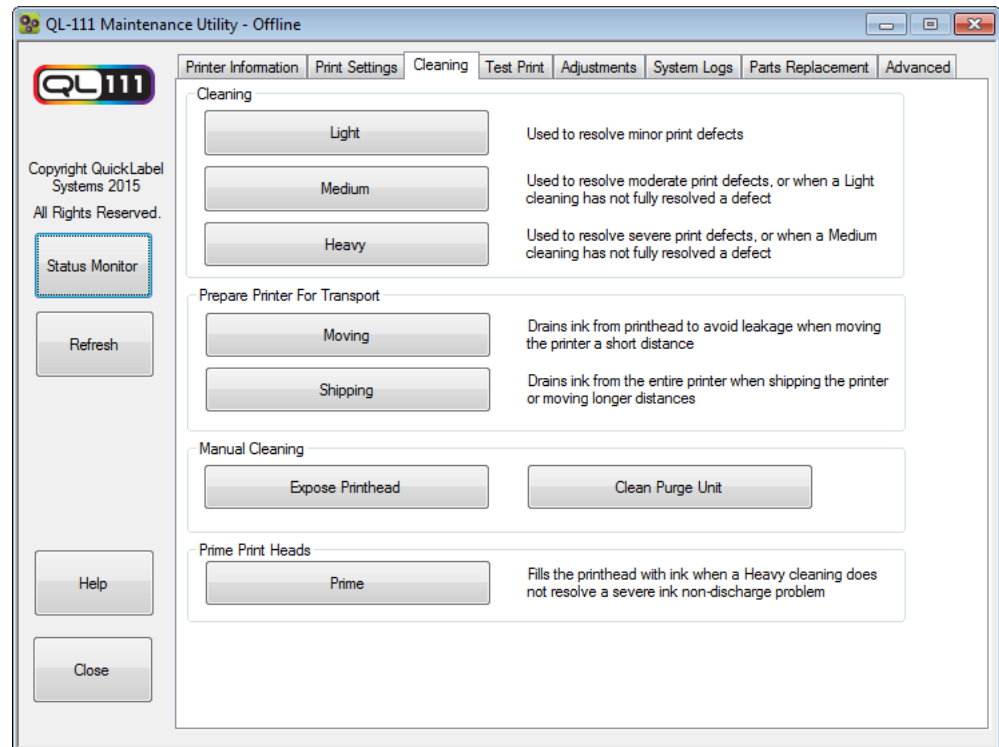
- 1 Launch the QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 printer you want to connect to. Choose **OK**.
- 2 Choose the **Print Settings** tab.
- 3 To read the heavy-color mode setting from the printer and set the **Disabled/Enabled** control accordingly, choose **Read From Printer**.
- 4 Select whether to enable or disable heavy-color mode.
- 5 To save the heavy-color mode setting, choose **Save to Printer**.

Cleaning Tab

Use the **Cleaning** tab to clean the printheads, prepare the printer for transport, and prime the printheads.



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 QL-111 printer driver and the **Cleaning** menu of the QL-111 Status Monitor.

- 1 Launch the QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 printer you want to connect to. Choose **OK**.

- 2 Choose the **Cleaning** tab.

3 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 QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 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 QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 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.

Exposing the Printhead for Manual Cleaning

Use the following instructions to expose the printhead for cleaning during the manual cleaning procedures discussed in the user guide.

- 1 Launch the QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 printer you want to connect to. Choose **OK**.

- 2 Choose the **Cleaning** tab.
- 3 Choose the **Expose Printhead** button.

The printer head will move to the print position for cleaning. This process requires five seconds.

Note: Do not keep the printhead in the print position for longer than two minutes.

Related Topics:

- Cleaning the Printhead Face on page 96
- Cleaning the Inside Edge of the Printhead on page 98

Removing the Purge Unit for Manual Cleaning

Use the following instructions to remove the purge unit for cleaning during the manual cleaning procedures discussed in the user guide.

- 1 Launch the QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 printer you want to connect to. Choose **OK**.

- 2 Choose the **Cleaning** tab.
- 3 Choose the Clean Purge Unit button.

Use the maintenance wizard to remove the purge unit for manual cleaning.

Related Topics:

- Cleaning the Purge Unit Blade on page 99

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 QL-111 Maintenance Utility.

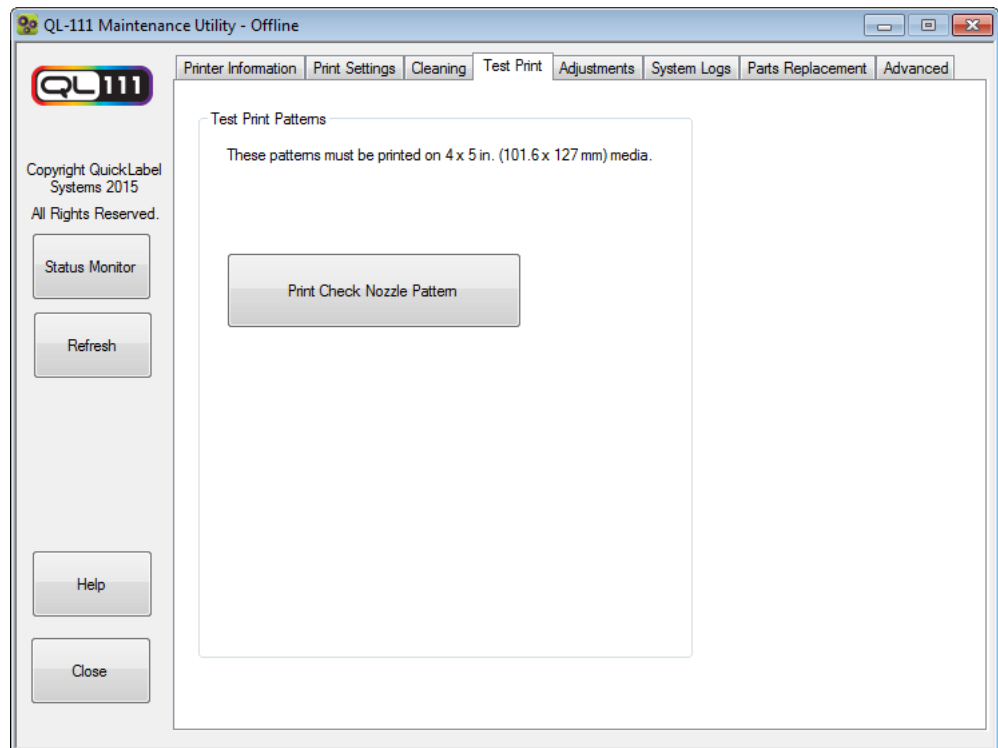
From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 printer you want to connect to. Choose **OK**.

- 2 Choose the **Cleaning** tab.
- 3 Choose **Prime**. 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 4x5 media is loaded.
- 2 Launch the QL-111 Maintenance Utility.

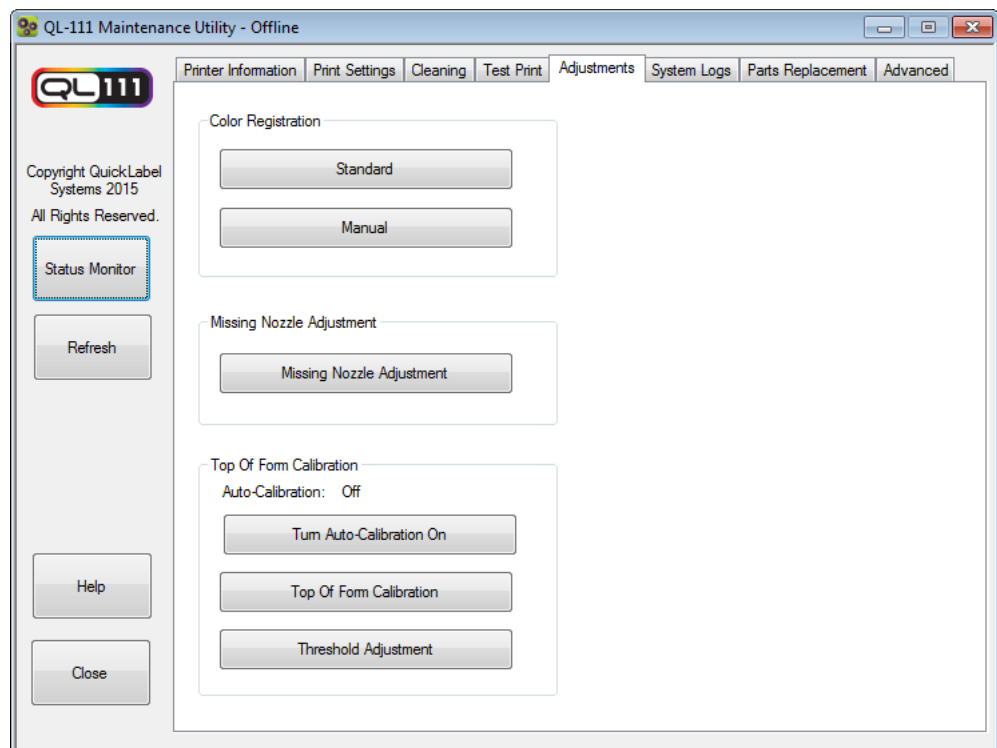
From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 printer you want to connect to. Choose **OK**.

- 3 Choose the **Test Print** tab.
- 4 Choose **Print Nozzle Check Pattern** to print solid and shade patterns of each color.

Adjustments Tab

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



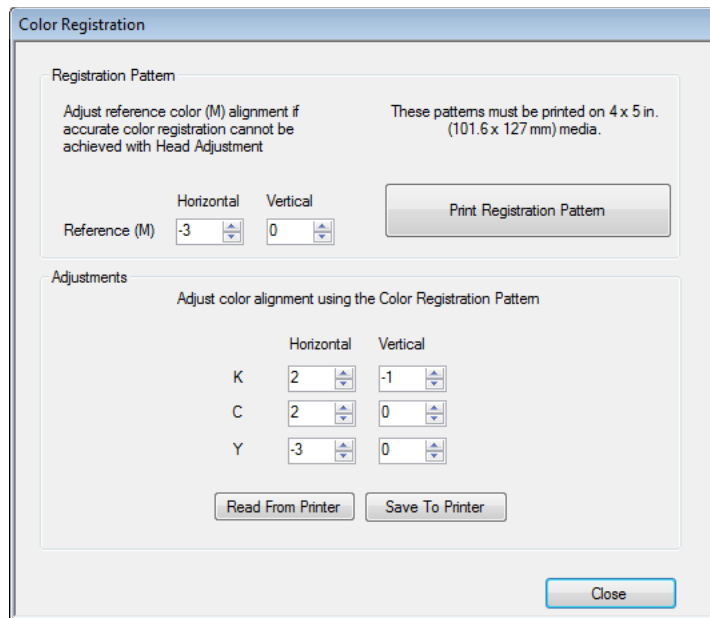
Setting up Standard Registration

- 1 Ensure that 4x5 media is loaded.
- 2 Launch the QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

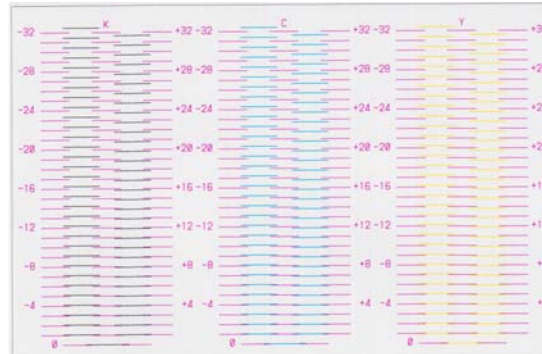
Select a display language and the QL-111 printer you want to connect to. Choose **OK**.

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

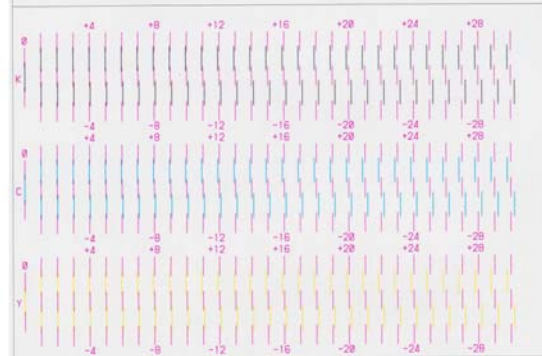


- 5 Enter the number of test patterns to print, and then choose **Print Registration Pattern**.

V



H

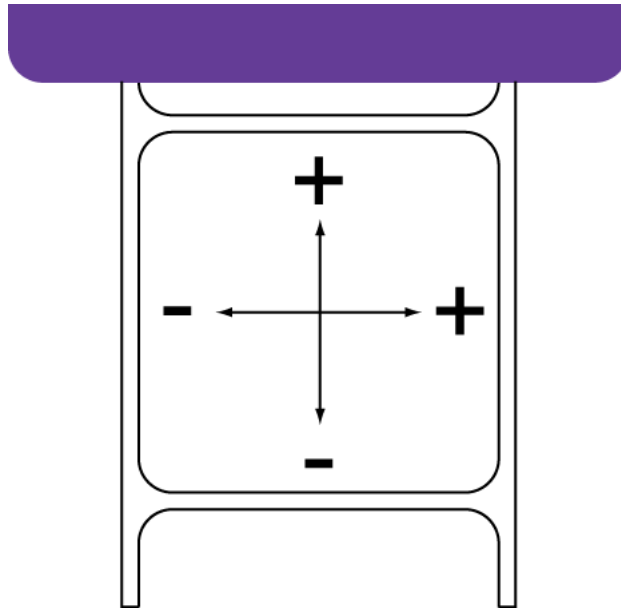


- 6 Use a magnifying glass or loupe to examine the patterns closely. The top pattern is used for vertical registration, and the bottom pattern is used for horizontal registration. Note if vertical or horizontal adjustments are needed based on color alignment.

- 7 Adjust the horizontal and vertical registration of each color.

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 Choose **Send**. The standard color registration settings will be saved.

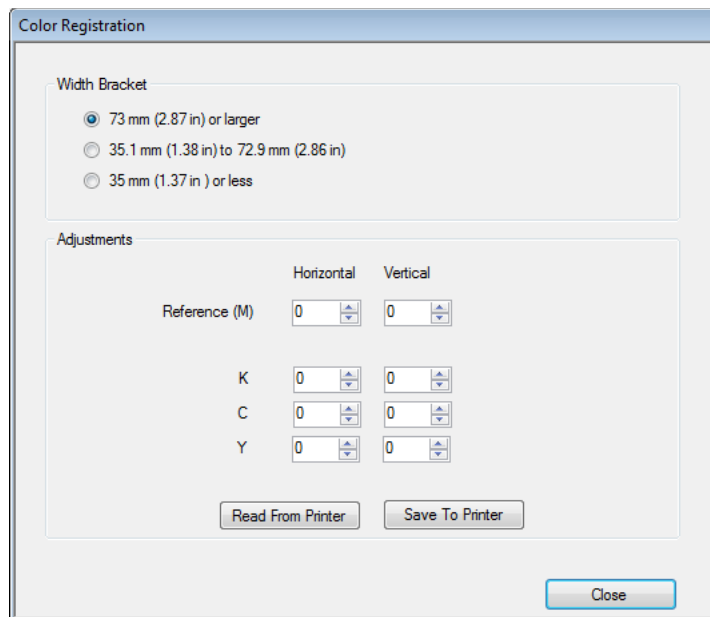
Setting up Manual Registration

- 1 Launch the QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 printer you want to connect to. Choose **OK**.

- 2 Choose the **Adjustments** tab.
- 3 Choose **Manual**. The Head Adjustments window will open.



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

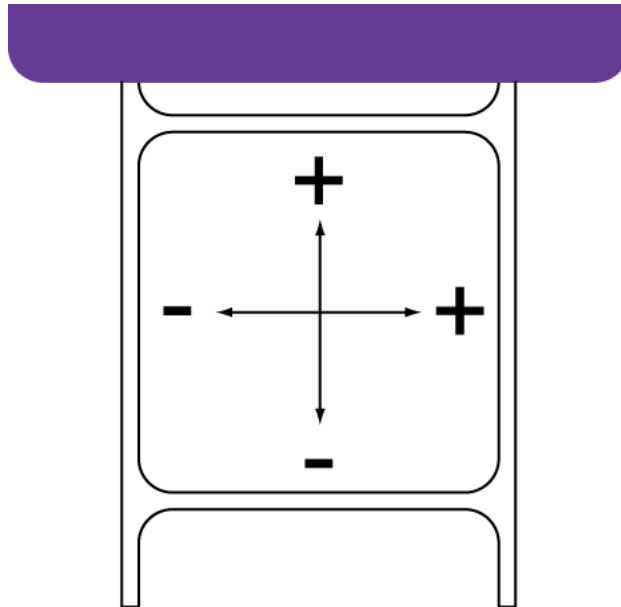
- 73 mm (2.87 in) or larger
- 35.1 mm (1.38 in) to 72.9 mm (2.86 in)
- 35 mm (1.37 in) or less

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

- 5 Adjust the horizontal and vertical registration of each color.

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.



- 6 Choose **Send**. The manual color registration settings will be saved.

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.

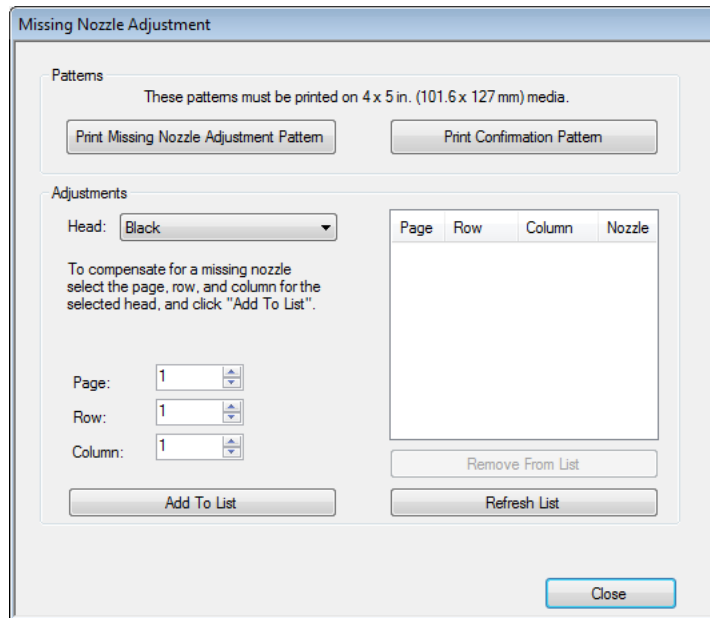
- 1 Ensure that 4x5 media is loaded.
- 2 Launch the QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 printer you want to connect to. Choose **OK**.

- 3 Choose the **Adjustments** tab.

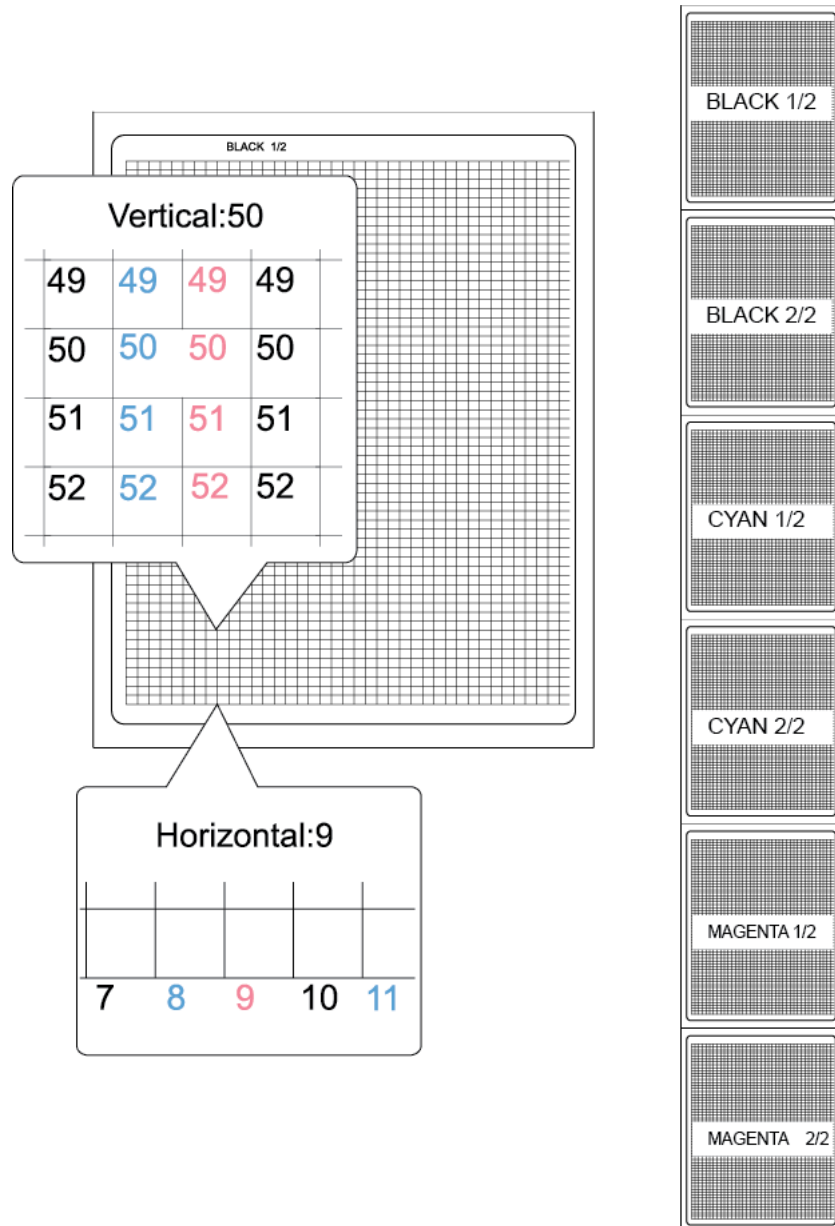
- 4 Choose **Missing Nozzle Adjustment**. The Missing Nozzle Adjustment window will open.



- 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.

In the following example of the black printhead pattern, 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. In the previous example, a missing line appeared in the black pattern.

- **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 71](#)

Turning on Top of Form Auto-Calibration

By default, the printer automatically calibrates the top of form for your label media. However, if you use reflective media, you may need to use the Top of Form Calibration feature in the Adjustments tab. In this case, the printer will calibrate top of form based on that procedure instead.

If you not using reflective mark media, the use of auto-calibration is recommended.

Use the following instructions to restore top of form auto-calibration.

- 1 Launch the QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 printer you want to connect to. Choose **OK**.

- 2 Choose the **Adjustments** tab.
- 3 Choose **Turn Auto-Calibration On**.

Related Topics:

- [Calibrating Top of Form on page 84](#)

Calibrating Top of Form

After loading reflective mark media, you may need to calibrate the printer.

This procedure is required only for reflective mark media. It should be performed each time a reflective mark media roll is loaded.

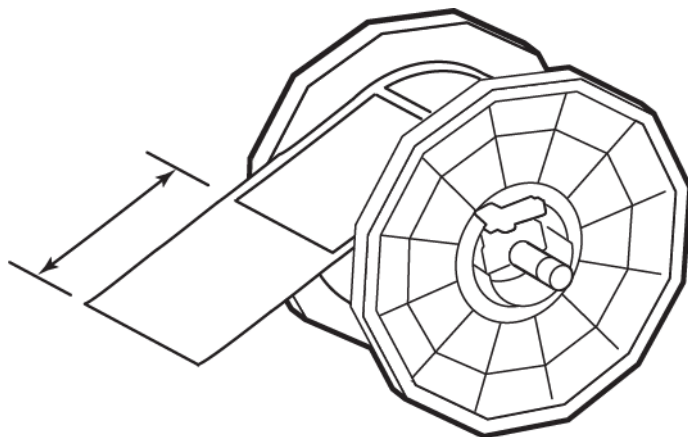
If you have already calibrated the printer for your reflective mark media, and you are replacing a reflective mark media roll with an identical roll, repeating calibration is not necessary.

- 1 Temporarily remove the label roll from the printer.
- 2 Launch the QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 printer you want to connect to. Choose **OK**.

- 3 Choose the **Adjustments** tab.
- 4 Choose **Top of Form Calibration**. The Top of Form Calibration window will open.
- 5 Determine if you are using matrix-in or matrix-out media. The next action will vary based on whether the matrix is intact or removed.
 - **Matrix-In** - If your media has die cuts and the matrix has been left intact, no further preparations are needed. Please proceed to the next step.
 - **Matrix-Out** - If your media has spaces between each label resulting from the removal of the matrix during the die cutting process, remove 160mm (6.5 inches) of label material from the end of the media roll.



This process improves sensor accuracy by allowing a small portion of the label liner to advance through the printer before any label material is introduced.

- 6 Reload the label roll into the printer and close the roll cover.
- 7 Press and hold the FEED key on the printer control panel. Release the key when a label starts exiting the front of the printer.

8 Choose **Save Calibration** in the Top of Form Calibration window.

9 Choose **Close**.

Related Topics:

- Turning on Top of Form Auto-Calibration on page 83

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.

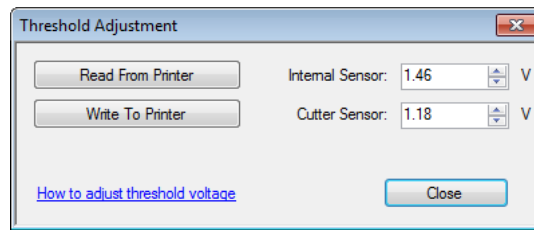
If you have already adjusted the top-of-form threshold for your reflective mark media, and you are replacing a reflective mark media roll with an identical roll, repeating this adjustment is not necessary.

1 Launch the QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 printer you want to connect to. Choose **OK**.

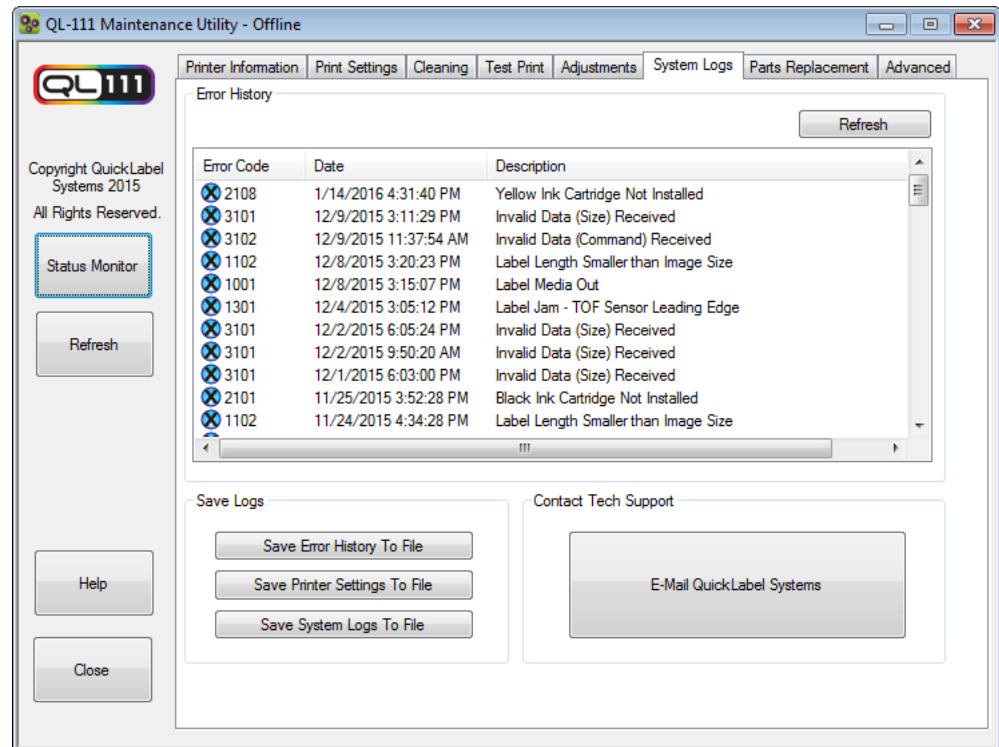
- 2 Choose the **Adjustments** tab.
- 3 Choose **Threshold Adjustment**. The Threshold Adjustment window will open.



- 4 To read the internal sensor and cutter sensor values from the printer and set the **Internal Sensor** and **Cutter Sensor** controls accordingly, choose **Read From Printer**.
- 5 Enter an adjustment based on the error message table above. You will adjust either the internal sensor or cutter sensor.
 - **Internal Sensor** - If an optional cutter is not installed, the printer's internal sensor will require adjustment as described in the error message table.
 - **Cutter Sensor** - If an optional cutter is installed, the cutter's sensor will require adjustment as described in the error message table.
- 6 Choose **Save to Printer**. The threshold 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 QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 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 **Reset**.

Saving Log Files

- 1 Launch the QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 printer you want to connect to. Choose **OK**.

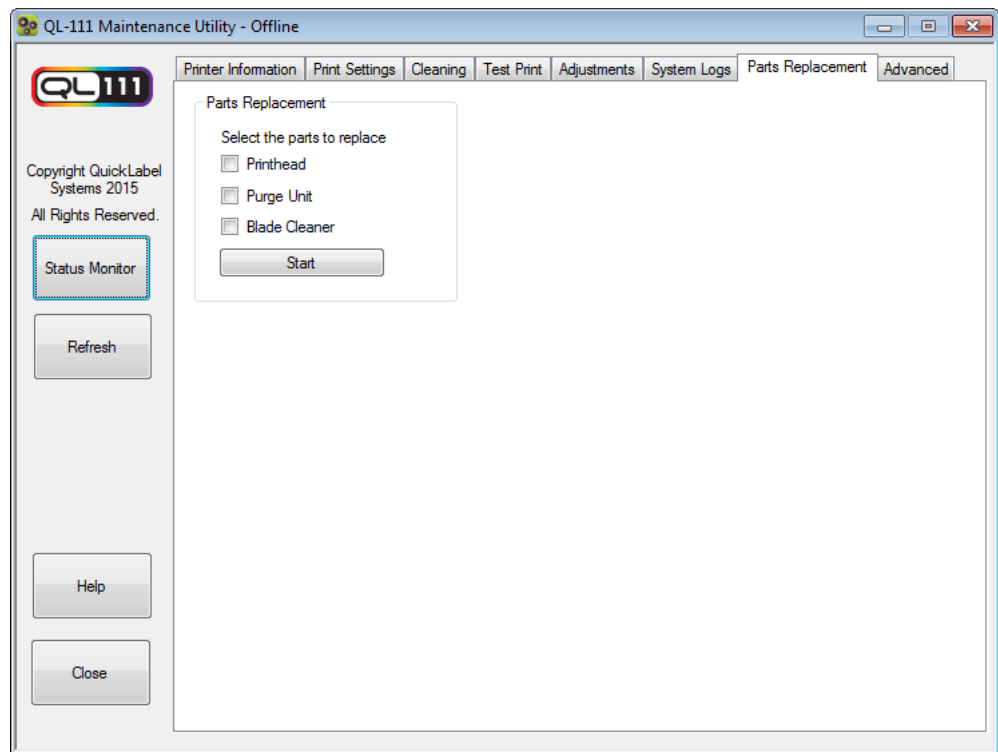
- 2 Choose the **System Logs** tab.

- 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 QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 printer you want to connect to. Choose **OK**.

- 2 Choose the **Parts Replacement** tab.
- 3 Select **Head**. Then 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 QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 printer you want to connect to. Choose **OK**.

- 2 Choose the **Parts Replacement** tab.
- 3 Select **Purge Unit**. Then 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 QL-111 Maintenance Utility.

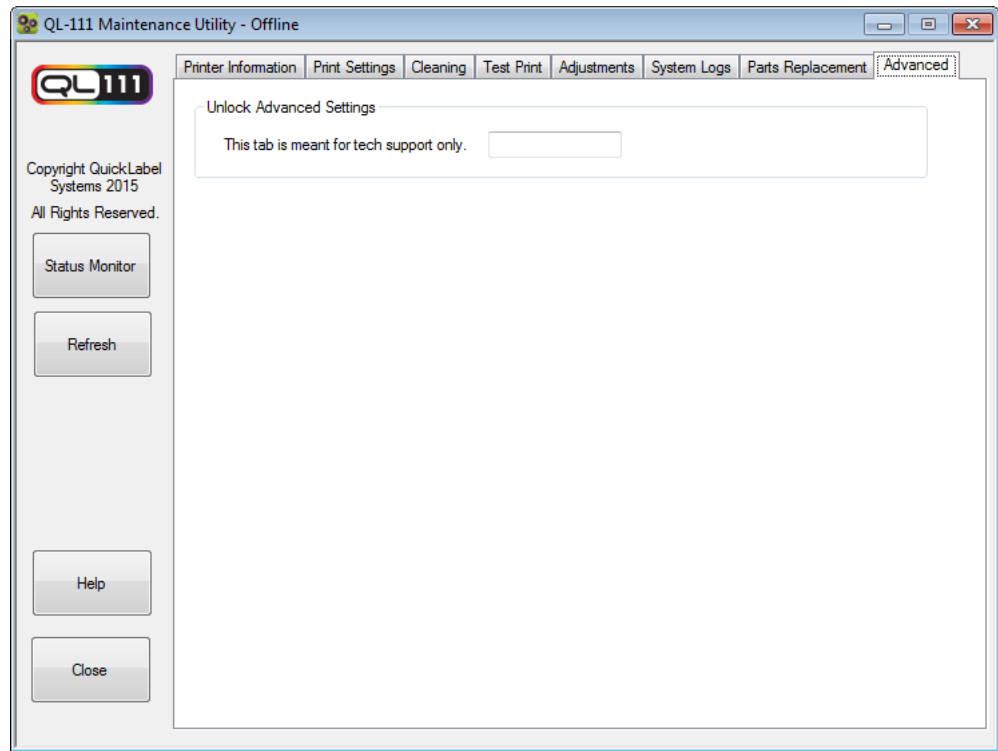
From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 printer you want to connect to. Choose **OK**.

- 2 Choose the **Parts Replacement** tab.
- 3 Select **Blade Cleaner**. Then choose **Start**. Follow the on-screen instructions to complete this procedure.

Advanced Tab

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



Remote Shared Printer Limitations

The following maintenance utility functions are not supported with remote shared printers. However, these functions can still be performed locally on the system that is sharing the printer.

Maintenance Utility Tab	Function
Cleaning	Shipping
	Clean Purge Unit
Parts Replacement	Printhead
	Purge Unit
	Blade Cleaner

5

Printer Maintenance

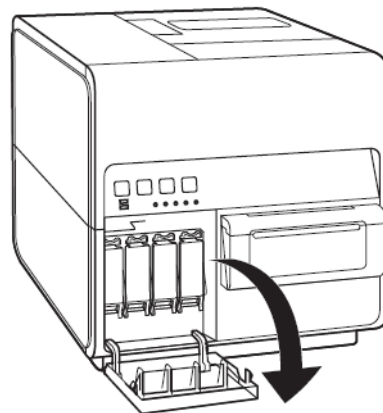
Replacing Ink Tanks

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.

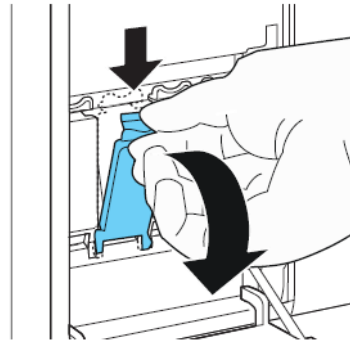
The printer has four ink tanks: black (Bk), cyan (C), magenta (M), and yellow (Y). Confirm the message displayed on the Status Monitor and replace the appropriate ink tank.

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

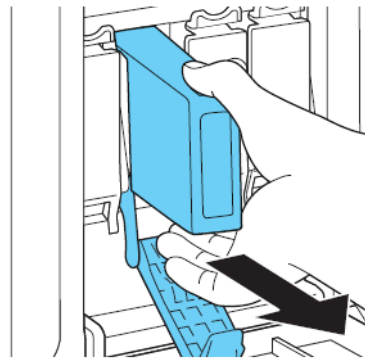
- To maintain printhead quality, the printer stops operating before it is completely out of ink. Therefore, a small amount of ink remains in the ink tank to be replaced.
 - To get good printing results, use up each ink tank within six months of opening the package.
 - Do not remove an ink tank unless 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.
- 1 Open the ink tank door.



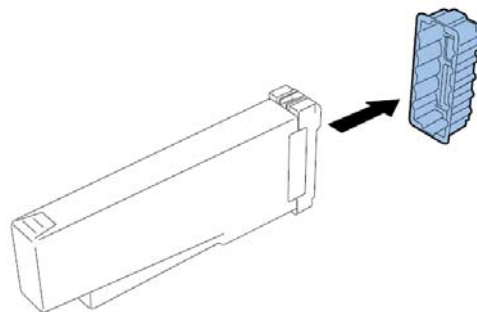
- 2 Open the ink tank lever while pushing it downward.



- 3 Remove the empty ink tank.

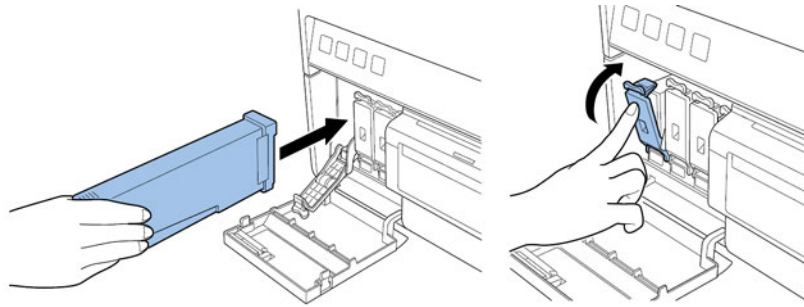


- 4 Take out the ink tanks from the package. Then remove the packing materials.



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.

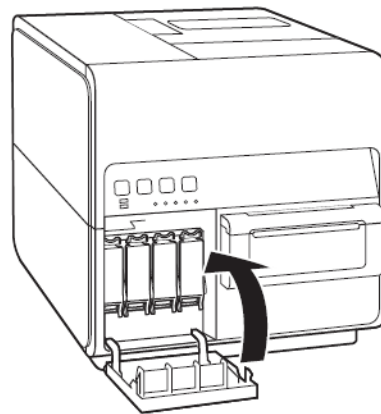
- 5 Slowly insert the ink tank as far as it will go, and then close the ink tank lever.



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 Close the ink tank door.



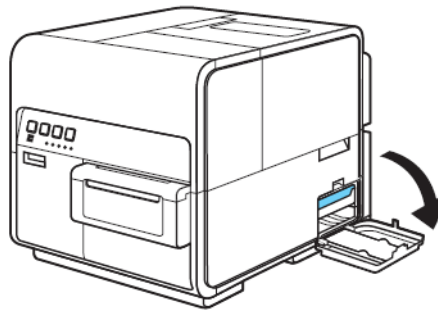
- 7 Dispose of the old ink tank according to federal, state, and local laws after packing it in a plastic bag and placing the bag in the box.

Replacing the Maintenance Cartridge

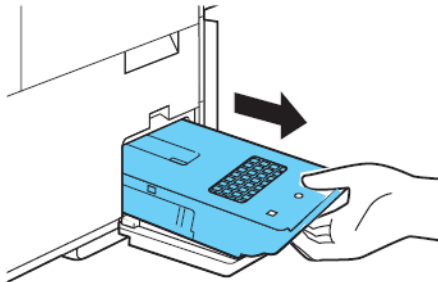
When the maintenance cartridge is filled with the collected ink, the message “Maintenance cartridge full error” is displayed in the Status Monitor and the printer stops.

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.

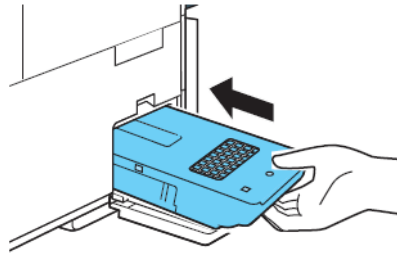


- 2 Draw out the maintenance cartridge slowly.



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.



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

- 4 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.

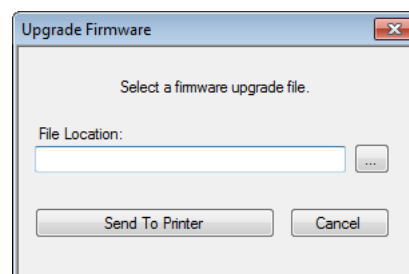
Upgrading the Printer Firmware

- 1 Ensure a QL-111 Firmware file (*.udf) is accessible from your PC.
- 2 Launch the QL-111 Maintenance Utility.

From the Windows Start Menu, choose **Start > All Programs > QuickLabel QL-111 > QL-111 Maintenance Utility**. A language and printer prompt will open.

Select a display language and the QL-111 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 QL-111 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.

Printhead and Purge Unit Cleaning

Cleaning the Printhead Face

If a void appears on the label and persists after multiple heavy cleanings, or if debris/adhesive has attached to the printheads, use the following procedure to clean the printhead face.

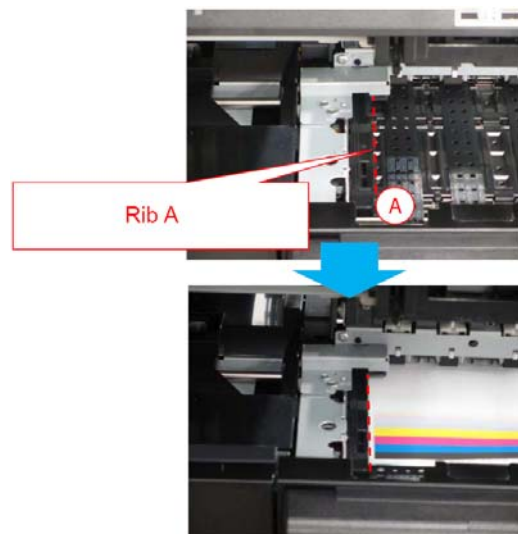
Note: Ensure the printer power remains on during this procedure.

- 1 Print a Check Nozzle Pattern using the Test Print tab in the QL-111 Maintenance Utility. Determine the position of voiding.
- 2 Open the roll cover. Remove the labels from transportation area (rewind the roll). Then close the roll cover.
- 3 Use the Expose Printhead function in the QL-111 Maintenance Utility to expose the printhead for cleaning. See *“Exposing the Printhead for Manual Cleaning”* on page 73.

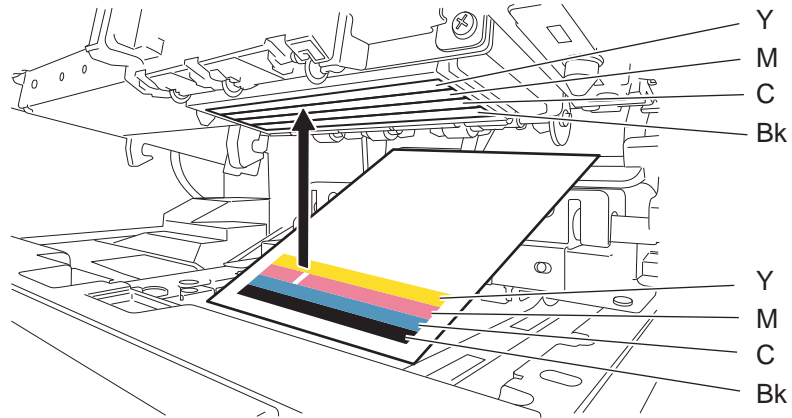
The printer head will move to the print position for cleaning. This process requires five seconds.

Note: Do not keep the printhead in the print position for longer than two minutes.

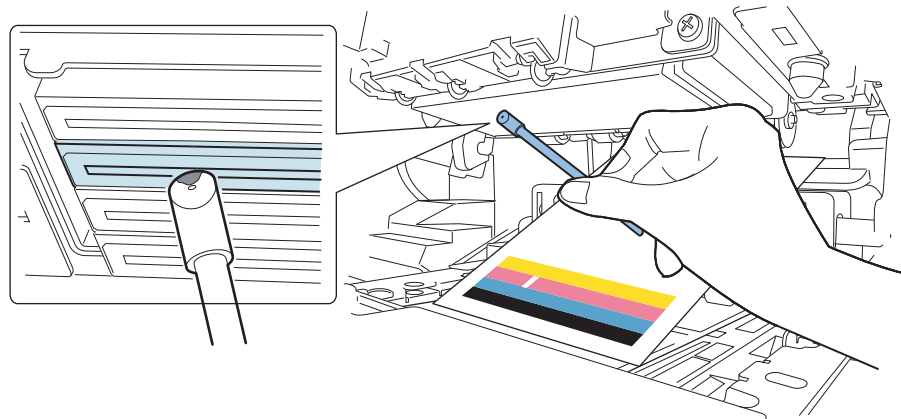
- 4 Open the upper unit.
- 5 Set the Nozzle Check Pattern label face-up in the transport assembly, aligned to the transport unit's rib A as indicated in the image below.



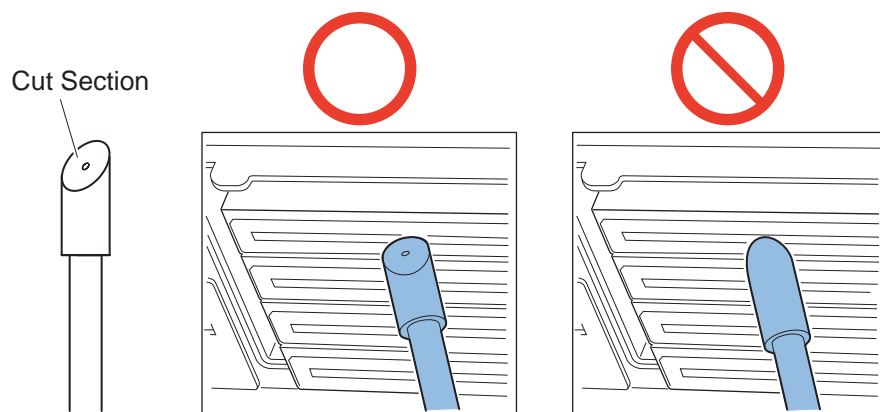
- Find the void on the printed label and take note of where and which printheads are affected by non-discharging nozzles.



- Touch the tip of cleaning stick on nozzles that have non discharge, and then hold for five seconds to absorb ink.

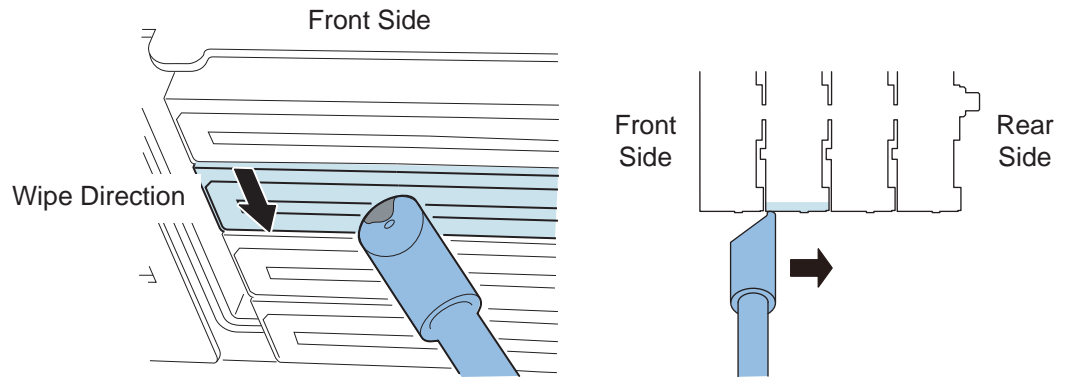


Caution: Do not touch cut section of cleaning stick on face of Printhead. Do not touch Printhead surface with your hand.



Note: It is possible to clean Printheads of all 4 colors with 1 cleaning stick.

- 8 Confirm ink is absorbed in tip of cleaning stick, and then wipe Printhead from front side to rear side two or three times. Wiping direction is opposite direction of paper feeding.



Caution: Touch cleaning stick to the face of Printhead so tip of cleaning stick bends lightly.

- 9 Remove printed label used for finding non-discharge nozzles.
- 10 Close the upper unit. After closing the upper unit, the printer head goes back to normal position (capped position).
- 11 Open the roll cover. Reinstall the label roll. Then close the roll cover.
- 12 Print the Check Nozzle Pattern again to confirm whether the voiding is resolved or not.

Note: If the printhead is in the print position for an extended period of time, the printhead surface may dry and voiding may occur in other areas. If voiding occurs, use the Light cleaning procedure in the Cleaning tab.

Related Topics:

- Exposing the Printhead for Manual Cleaning on page 73

Cleaning the Inside Edge of the Printhead

If label adhesive has adhered to the inside (upstream) edge of the printhead, print quality issues may result. Use this procedure to clean the inside edge.

Note: Ensure the printer power remains on during this procedure.

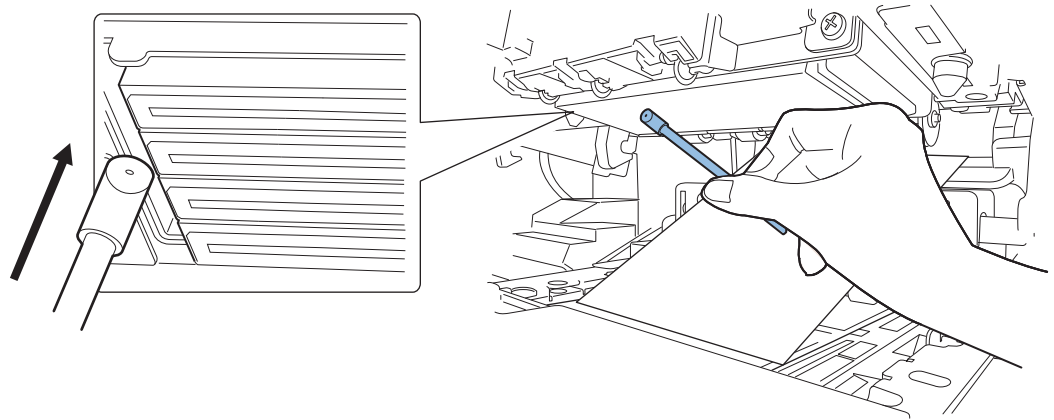
- 1 Open the roll cover. Remove the labels from transportation area (rewind the roll). Then close the roll cover.
- 2 Use the Expose Printhead function in the QL-111 Maintenance Utility to expose the printhead for cleaning. See “Exposing the Printhead for Manual Cleaning” on page 73.

The printer head will move to the print position for cleaning. This process requires five seconds.

Note: Do not keep the printhead in the print position for longer than two minutes.

- 3 Open the upper unit.

- 4 Use the tip of the cleaning stick to clean the inside edge of the printhead as indicated. Wipe the edge in the upward direction only. Do not wipe in the downward direction. Do not wipe in the left/right direction.



- 5 Close the upper unit. After closing the upper unit, the printer head goes back to normal position (capped position).
- 6 Open the roll cover. Reinstall the label roll. Then close the roll cover.

Related Topics:

- [Exposing the Printhead for Manual Cleaning on page 73](#)

Cleaning the Purge Unit Blade

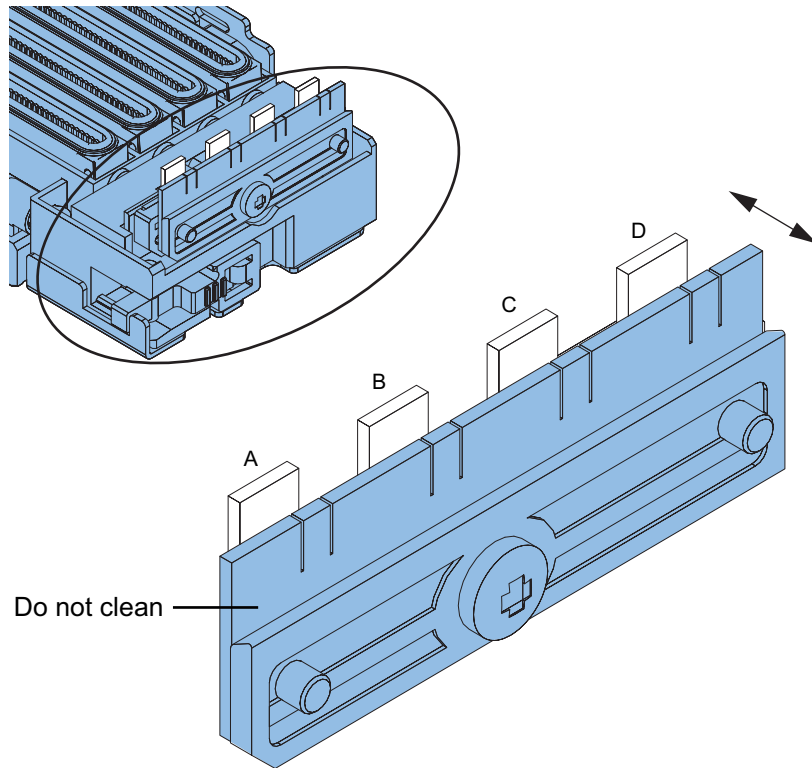
If debris has adhered to the blade in the purge unit, print quality issues may result. Use this procedure to clean the purge unit blade.

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

Note: Use only a new cleaning stick for this procedure. Do not reuse cleaning sticks when cleaning the purge unit blade.

- 1 Use the Clean Purge Unit function in the QL-111 Maintenance Utility to remove the purge unit for cleaning. See [“Removing the Purge Unit for Manual Cleaning” on page 73](#).

- 2 Refer to the illustration during the cleaning process. Use a new cleaning stick to wipe the top surface of the blade (A, B, C, and D) in the directions indicated by the arrows.



- 3 After wiping the top surface, wipe the face surface of the blade (A, B, C, and D). Then wipe the back surface of this blade.
- 4 Reinstall the purge unit and complete the maintenance wizard.

Related Topics:

- [Removing the Purge Unit for Manual Cleaning on page 73](#)

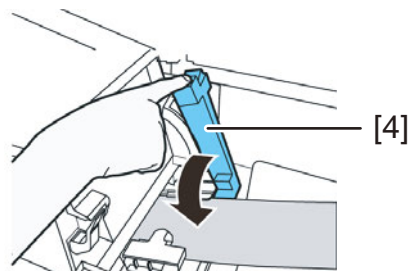
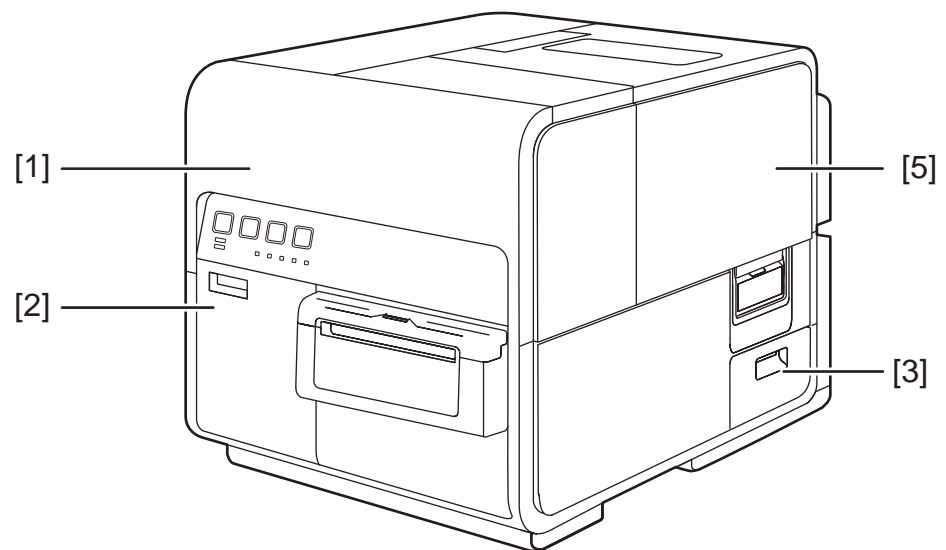
6

Troubleshooting

Error and Warning Messages

Operator Call Error Messages

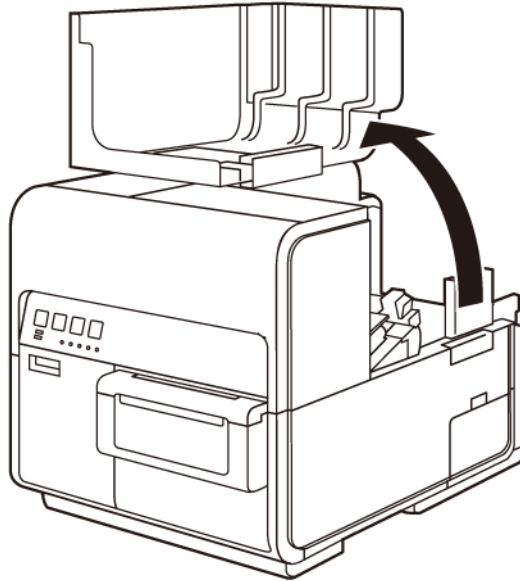
Error Messages	Problem	Solution
Upper unit open	The upper unit is open.	Close the upper unit [1].
Ink tank door open	The ink tank door is open.	Close the ink tank door [2].
Maintenance cartridge door open	The maintenance cartridge door is open.	Close the maintenance cartridge door [3].
Paper guide open	The paper guide is open.	Close the paper guide [4].
Roll cover open	The roll cover is open.	Close the roll cover [5].



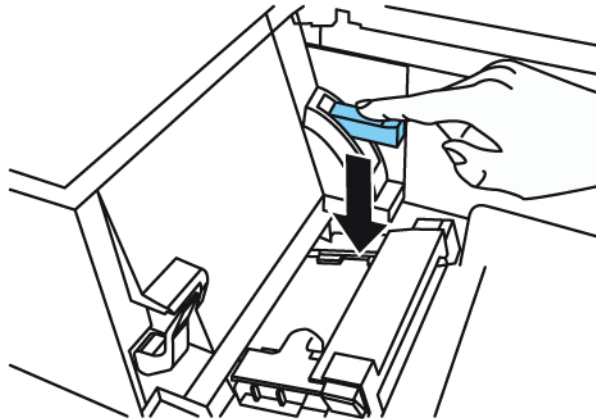
Removing a Paper Jam

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

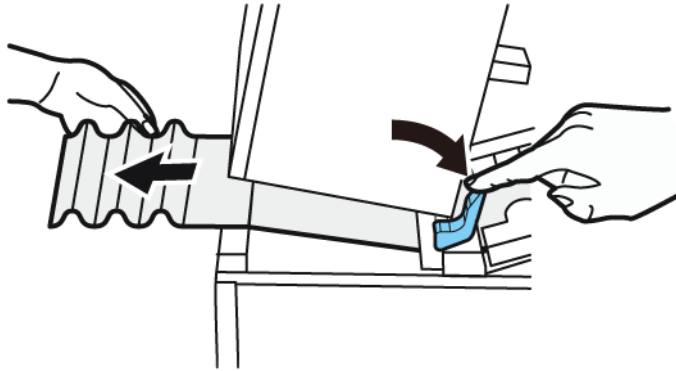
- 1 Open the roll cover.



- 2 Press down the upper unit open lever (at the back of the feeder) to open the upper unit.

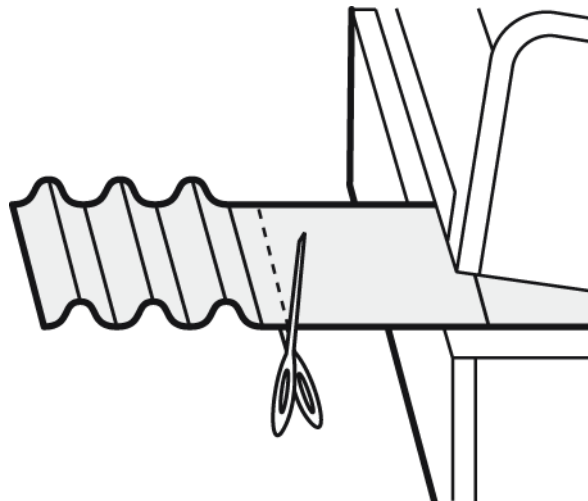


- 3 While pushing the pinch roller release lever, pull out the paper jammed in the transport section.

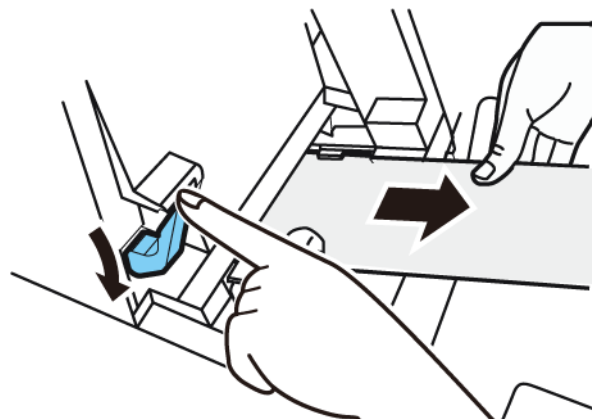


Caution: When pulling out the jammed paper from the transport section with the upper unit open, take care not to touch the spur inside the upper unit. You can get injured or stained with ink.

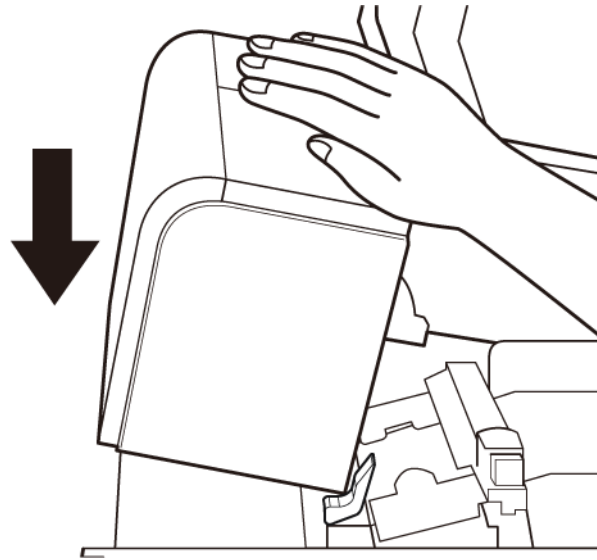
- 4 Neatly cut the pulled out paper.



- 5 While pushing the pinch roller release lever, pull out paper in the direction opposite to the transport direction.



- 6 Close the upper unit.



Note: When closing the upper unit, take care not to touch the interface at the back with your finger. Your finger can be caught in the interface, resulting in injury.

- 7 Reload 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.
The USB cable is too long.	Avoid using USB cables longer than 16.4 feet (5 meters).
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 QL-111 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.
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>

Check Point	Solution
<p>Check whether a test pattern is printed. Note that 4" x 5" label stock is required.</p>	<p>Try printing a test pattern from the Test Print tab in the Maintenance Utility.</p> <p>If the test pattern is printed, check the application software settings, operation method, and print data content.</p> <p>If the test pattern is not printed, contact QuickLabel Support.</p>
<p>The problem is occurring on the computer.</p>	<p>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.</p>
<p>Check whether an option other than "None" is selected for the system standby setting or sleep mode setting of Windows running on the computer.</p>	<p>When printing data, select "None" for the system standby setting or the setting of the time before entering the sleep mode of Windows running on the computer. Note that data sent from the computer is discarded when the computer is recovered from the standby mode.</p> <p>To configure the system standby setting or sleep mode setting in Windows, select Control Panel from the Start menu. Then select Power Options.</p>

Paper is Not Feeding Correctly

Check Point	Solution
<p>Check whether non QuickLabel Systems media is used.</p>	<p>Use only QuickLabel Systems media for the printer. Otherwise, a media jam or failure may result.</p>
<p>The edge of the paper is folded or curled.</p>	<p>If the leading edge of the paper is folded or curled, it will not feed correctly. This could also cause a media jam.</p>
<p>Check whether the label is likely to come off due to deteriorated adhesive.</p>	<p>Never use media having labels which are likely to come off. Printer failures can result.</p>
<p>Check whether the paper guide is set in accordance with the media width.</p>	<p>Set the transport guide in accordance with the paper width, and then set the paper guide such that it clicks.</p>

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 Launch Monitor. Set the details after the Status Monitor starts.
Check whether the printer and computer can communicate interactively.	<p>If the printer and computer cannot communicate interactively, the Status Monitor does not start even if printing starts.</p> <p>Open the Properties of the printer driver, and then click the Port tab. Check that the Enable Bidirectional Support checkbox is checked.</p> <p>If the problem persists after taking the above action, uninstall the printer driver, and then reinstall the printer driver.</p>

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 QL-111 printer is selected when you start the print job.
<p>Check whether a test pattern is printed.</p> <p>Note that 4" x 5" label stock is required.</p>	<p>Try printing a test pattern from the Test Print tab in the Maintenance Utility.</p> <p>If the test pattern is printed, check the application software settings, operation method, and print data content.</p> <p>If the test pattern is not printed, contact QuickLabel Support.</p>

Slow to Print

Check Point	Solution
Check whether the number of copies is specified on the application side.	If the number of copies is specified on the application side, new print data is sent each time printing of a copy is completed, requiring a long time to finish printing the specified number of copies. In such a case, specify the number of copies on the printer driver side.
Print speed is set to a lower speed.	Set the print speed in the Layout tab of the printer driver or in Custom QuickLabel Omni. Auto print speed is recommended.

Print Quality is Poor

Check Point	Solution
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 printer and perform registration.
The overall print quality is poor.	Use only QuickLabel Systems media for the printer. Otherwise, a media jam or failure may result.

Printed Colors Appear Incorrect

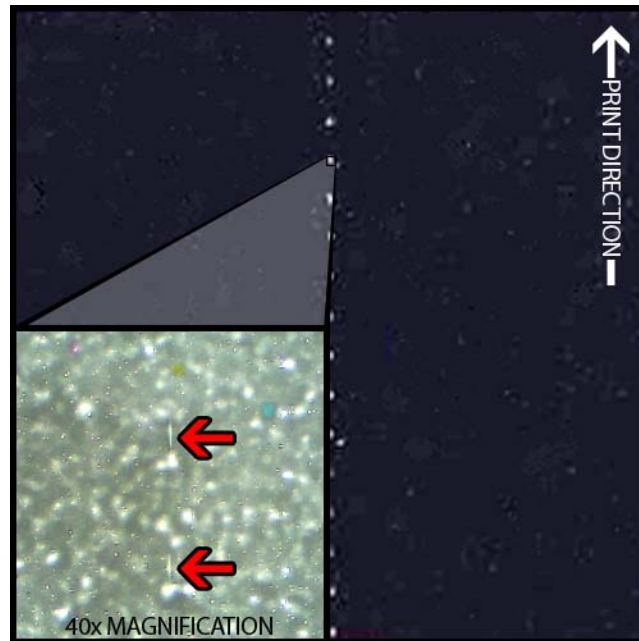
Check Point	Solution
Wrong colors are printed.	<p>Check the image in your design application. If necessary, make adjustments in the Advanced Color Settings window.</p> <p>Open the Control Panel of your computer, and then check whether the settings in the Display Properties and Screen Properties are correct.</p> <p>When the setting for the display type or gamma coefficients is wrong, correct colors are not displayed on the display.</p>
The overall print quality is poor.	Use only QuickLabel Systems media for the printer. Otherwise, a media jam or failure may result.
Image is too bright or too dark.	Check the image in your design application. If necessary, make adjustments in the Advanced Color Settings window.
The image contrast is too strong or weak.	Check the image in your design application. If necessary, make adjustments in the Advanced Color Settings window.
Image is faint.	Check the image in your design application. If necessary, make adjustments in the Advanced Color Settings window.

Printing in One Color

Check Point	Solution
The software application is set up for single color printing.	Some software applications may allow you to print in one color. Check the print settings in the software application on the computer.

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.

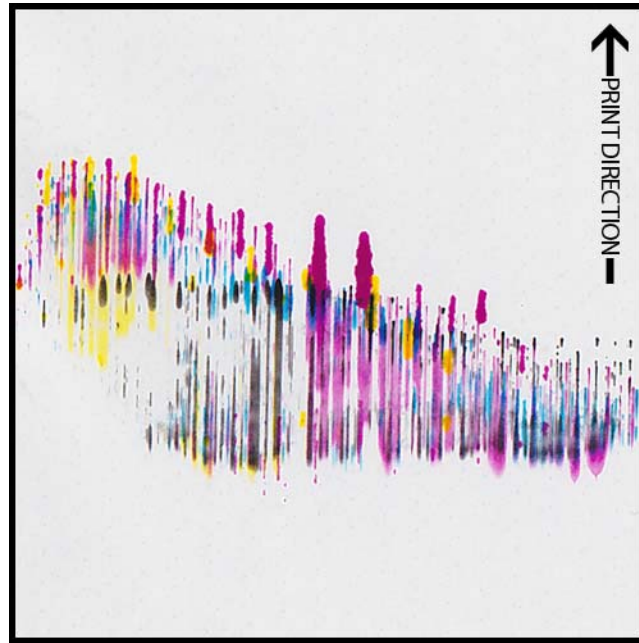
Cause

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

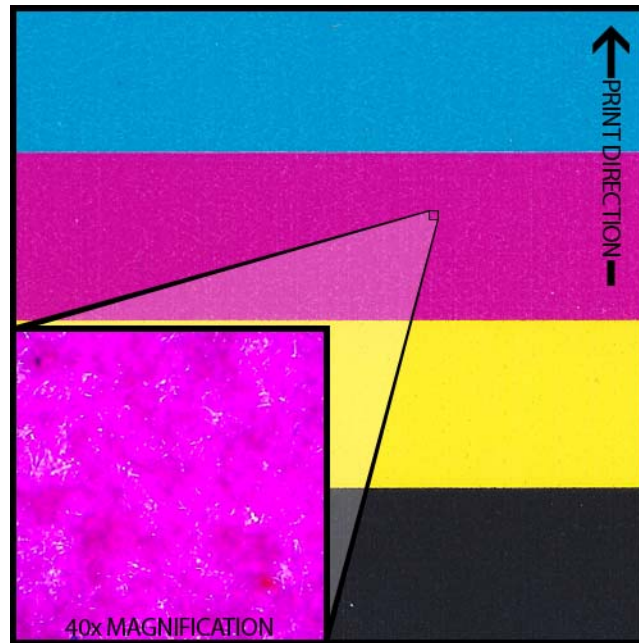
Media is physically coming into contact with the printhead surfaces as it passes through the transport assembly.

Possible Solutions

Reload the media, ensuring it is perfectly centered 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.

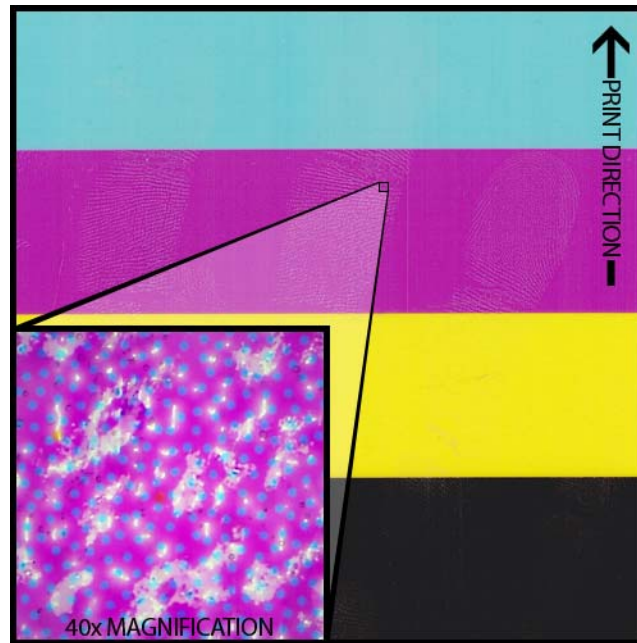
Cause

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.

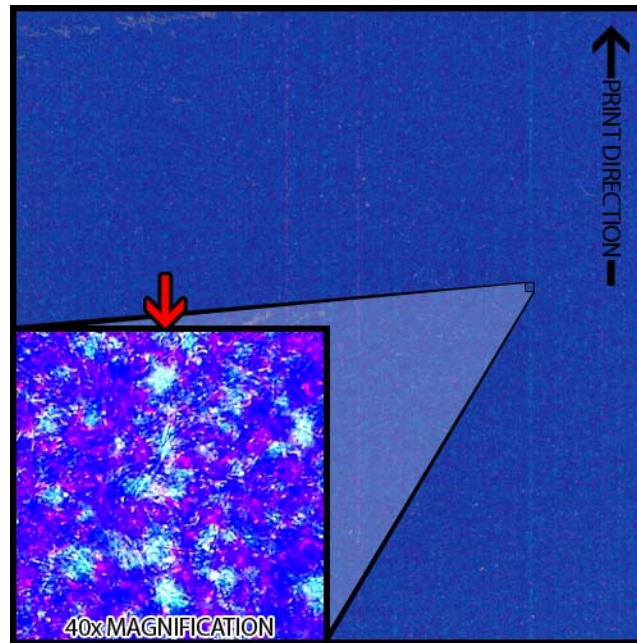
Cause

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

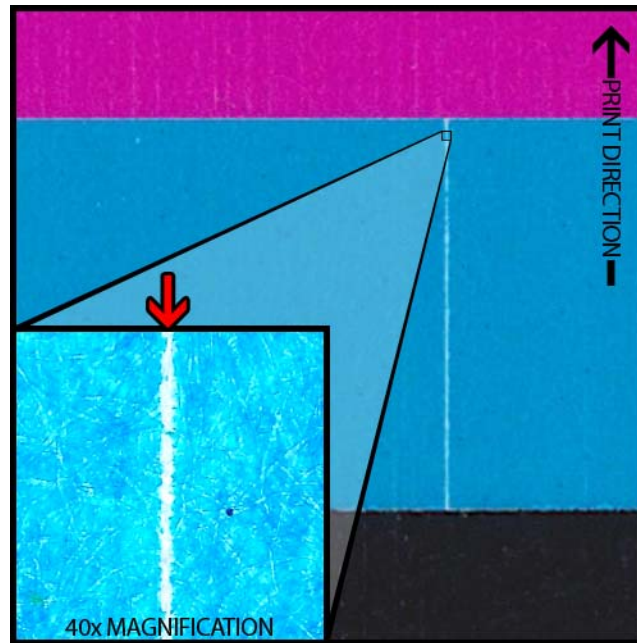
A nozzle is no longer functioning in the printhead. This is fundamentally different from a nozzle that could work but doesn't. This typically will only occur in printheads being used beyond their life expectancy.

Possible Solutions

Running a printhead cleaning routine from the maintenance utility will attempt to resolve the clog, if that is possibly the cause. *See "Cleaning Printheads" on page 71.*

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. *See "Using the Missing Nozzle Adjustment" on page 80.*

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.

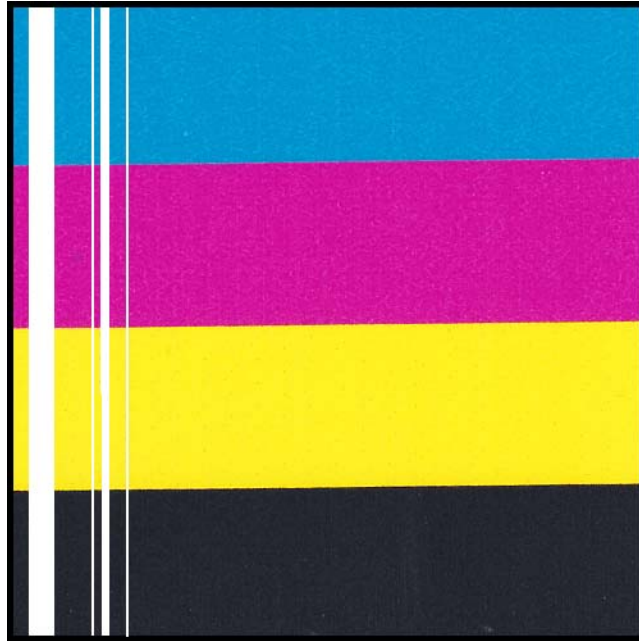
Possible Solutions

Running a printhead cleaning routine from the maintenance utility will attempt to resolve the clog. *See “Cleaning Printheads” on page 71.*

Running a printhead priming routine from the maintenance utility will drain and refill the printheads with ink. *See “Priming the Printheads” on page 74.*

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. *See “Cleaning Printheads” on page 71.*

Running a printhead priming routine from the maintenance utility will drain and refill the printheads with ink. *See “Priming the Printheads” on page 74.*

If the problem persists, please contact Technical Support.

Wide Voids in Print



Description

Wide areas across one or more printheads are not printing.

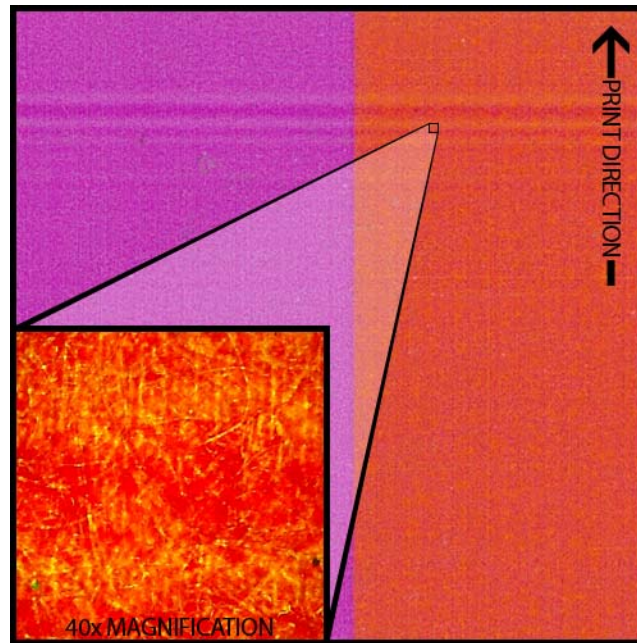
Cause

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

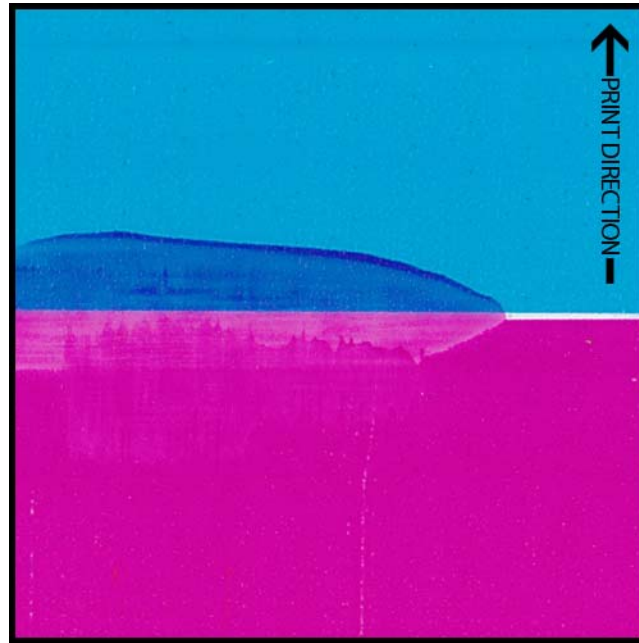
Lower rewinder torque.

Move the rewinder closer/further from the label exit.

Ensure the rewinder is at the proper elevation.

Ensure the rewinder is properly centered to the media.

Physical Smearing of Wet Ink



Description

Smear marks on media surface after printing.

Cause

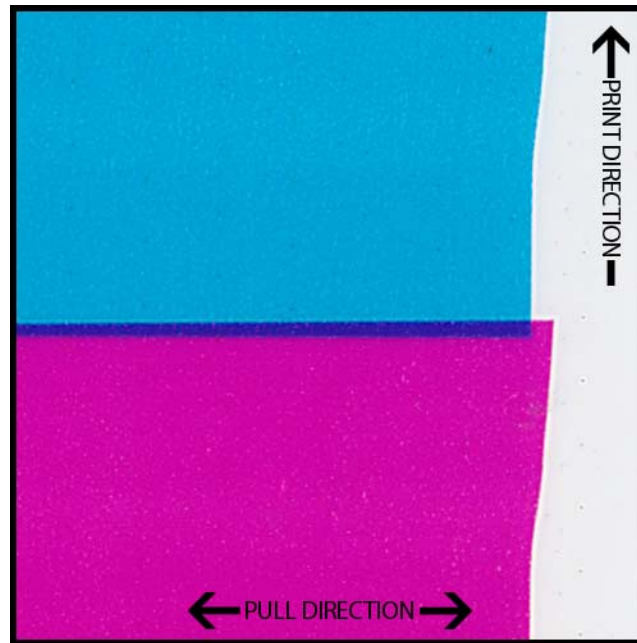
Media is physically coming into contact with surfaces before ink is dried.

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.

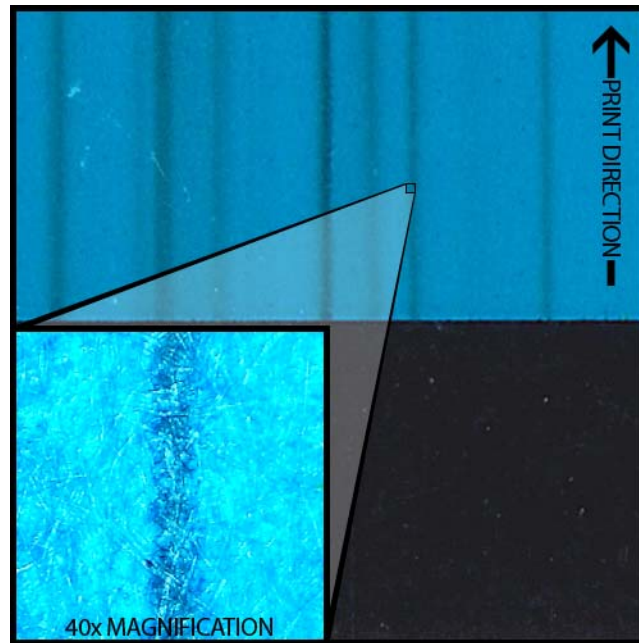
Possible Solutions

If a rewinder is in use, ensure the rewinder is perfectly centered 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.

- See *“Priming the Printheads”* on page 74.
- See *“Cleaning Printheads”* on page 71.

7

RW-5 Rewinder

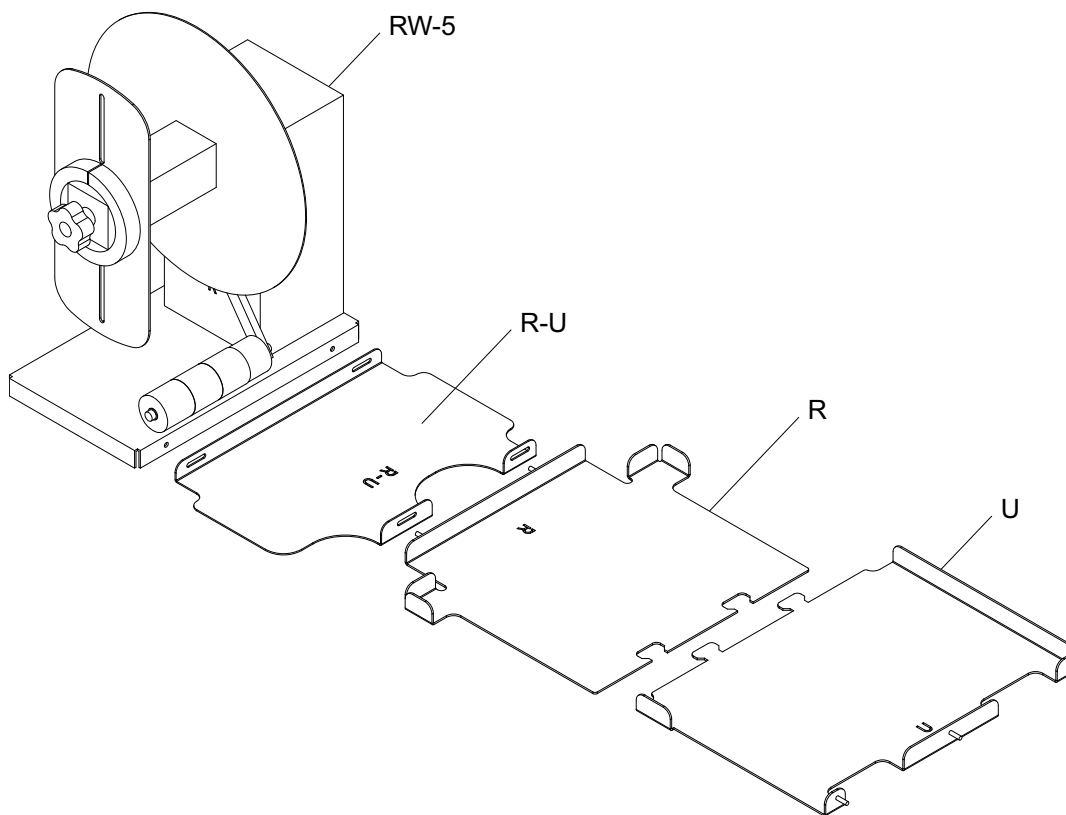
Before Installing the Rewinder

Before installing the rewriter, observe the following precautions.

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

Installing the Rewinder

- 1 Ensure the power switch on the rewriter is in the off position.
- 2 Arrange the rewriter and brackets as illustrated below. Refer to this illustration through the installation process.



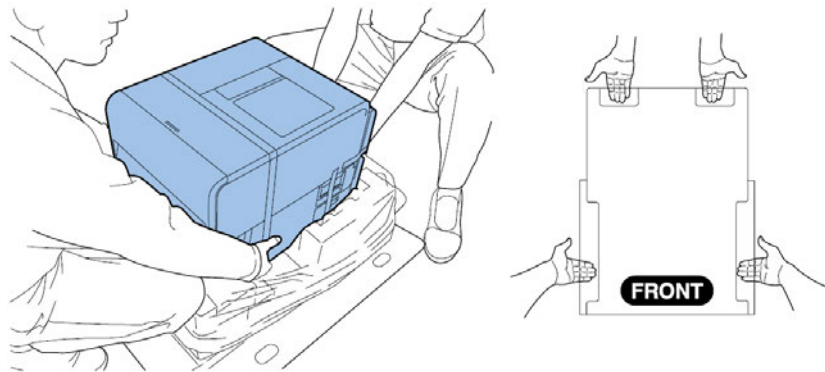
- 3 Insert the tabs from bracket U into the slots on bracket R. These two brackets will later be used to position the QL-111 printer.
- 4 Fasten the R-U bracket to the R bracket using the supplied thumb nuts. Ensure the threaded pin is centered in the adjustment slot.

Note: These thumb nuts may need to be loosened at a later time when aligning labels during rewinding.

- 5 Fasten the RW-5 rewriter to the R-U bracket using the supplied thumb screws.

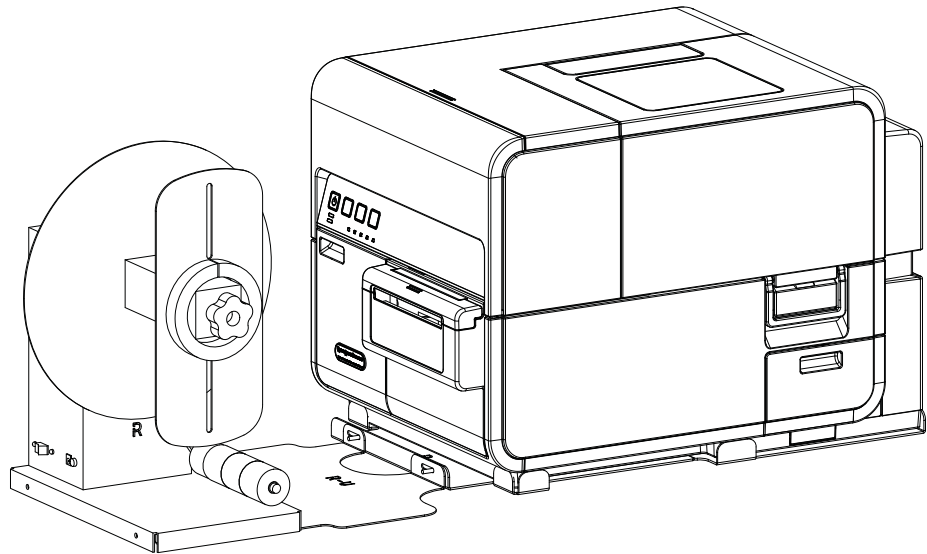
Note: These thumb screws may need to be loosened at a later time when aligning labels during rewinding.

- 6 Use the Moving feature in the QL-111 Maintenance Utility. This utility will prepare the printer for lifting and moving onto the brackets. See [“Preparing for Moving” on page 72](#).
- 7 Holding the handles at the bottom of the printer, lift the printer and then place it on the connected R and U brackets. Lift from the illustrated points. Do not hold the front side of the printer. Ensure the printer remains level as you move it.



Note: The printer weighs about 53 pounds (24 kilograms). Two persons are required to lift the printer. Two persons standing at the front and back of the printer respectively must lift the printer by holding it with their hands under the bottom handles (two at the front, one at the left, and one at the right). Attempting to lift the printer in an improper position can result in the printer falling or injury.

Ensure the printer sits level on the alignment brackets as illustrated below.



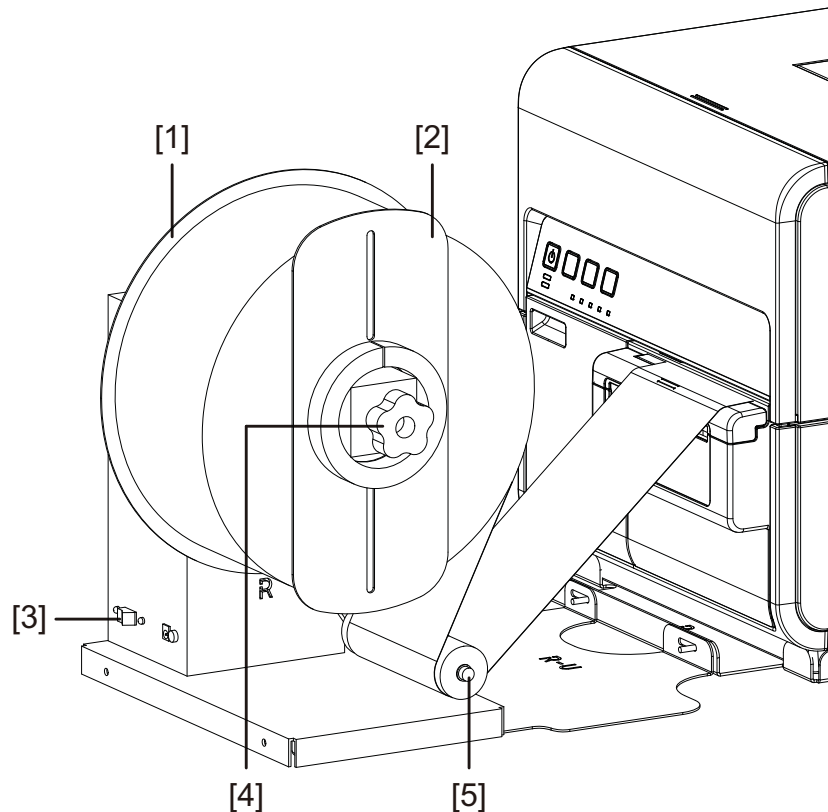
- 8 Plug the power jack into the power slot on the rewinder. Insert the power plug into an AC power receptacle.

Rewinding Labels

The rewinder automatically winds printed media exiting the QL-111 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 [3] on the rewinder is in the off position.



- 2 Turn the rewinder mandrel adjustment knob [4] counterclockwise to loosen the mandrel.
- 3 Remove the outer flange [2] 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 [1]. The outer flange [2] will be installed after you fasten the label media to the roll core.

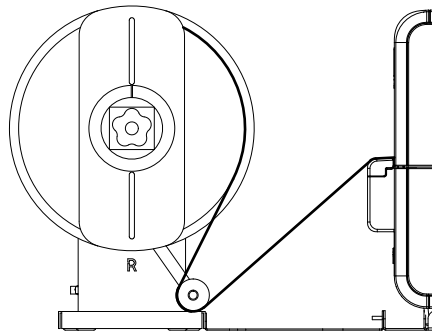
- 5 Start a print job. Pause the job when the printed media advances slightly past the rewinder.

- 6** Feed the media under the rewinder dancer arm [5] and up around the empty label core. The inside edge of the media should be aligned squarely with the inner flange [1].

If the media is not squarely aligned with the inner flange, adjust the position of the rewinder as needed.

- Loosen the thumb screws that fasten the RW-5 rewinder to the R-U bracket. Slide the rewinder left/right as allowed by the adjustment slots until the media is squarely aligned with the inner flange. Then tighten the thumb screws.
 - If a greater adjustment range is needed, loosen the thumb nuts that fasten the R-U bracket to the R bracket. Slide the rewinder left/right as allowed by the adjustment slots until the media is squarely aligned with the inner flange. Then tighten the thumb nuts.
- 7** Fasten the end of the media to the core with tape. Ensure the printed side faces out.
- 8** Adjust the spring collar 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 [2] and then turn the mandrel adjustment knob [4] clockwise to tighten the mandrel.
- 10** Turn the power switch [3] 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 QL-111 printer. 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.

8

UW-5 Unwinder

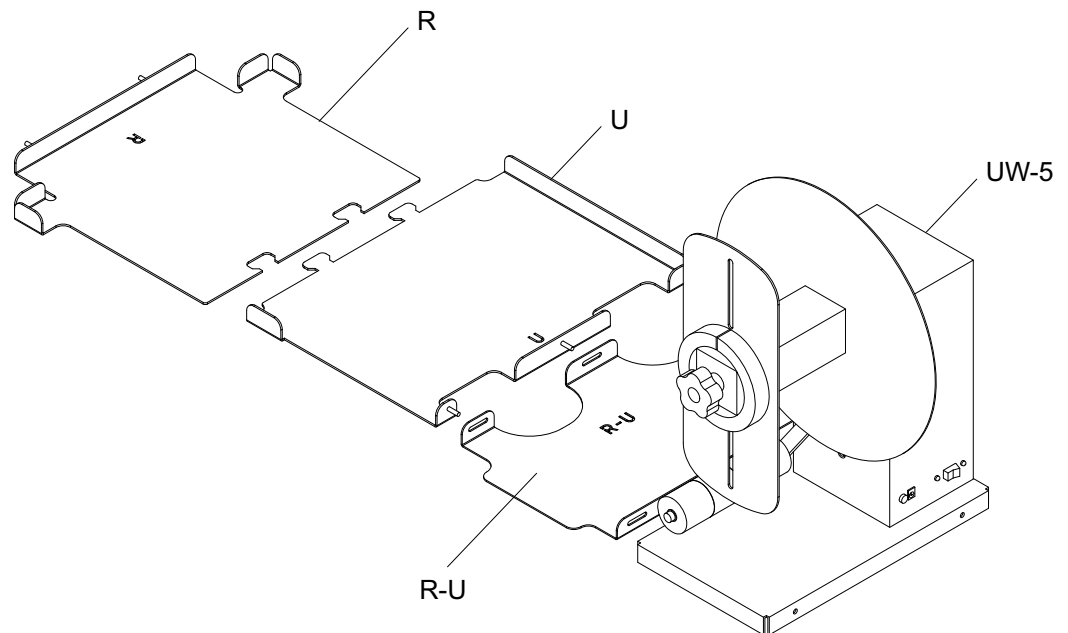
Before Installing the Unwinder

Before installing the unwinder, observe the following precautions.

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

Installing the Unwinder

- 1 Ensure the power switch on the unwinder is in the off position.
- 2 Arrange the unwinder and brackets as illustrated below. Refer to this illustration through the installation process.



- 3 Insert the tabs from bracket U into the slots on bracket R. These two brackets will later be used to position the QL-111 printer.
- 4 Fasten the R-U bracket to the U bracket using the supplied thumb nuts. Ensure the threaded pin is centered in the adjustment slot.

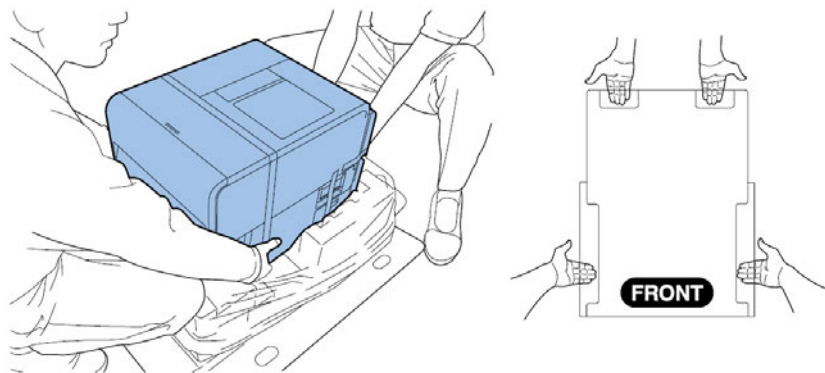
Note: These thumb nuts may need to be loosened at a later time when aligning labels during unwinding.

- 5 Fasten the UW-5 unwinder to the R-U bracket using the supplied thumb screws.

Note: These thumb screws may need to be loosened at a later time when aligning labels during unwinding.

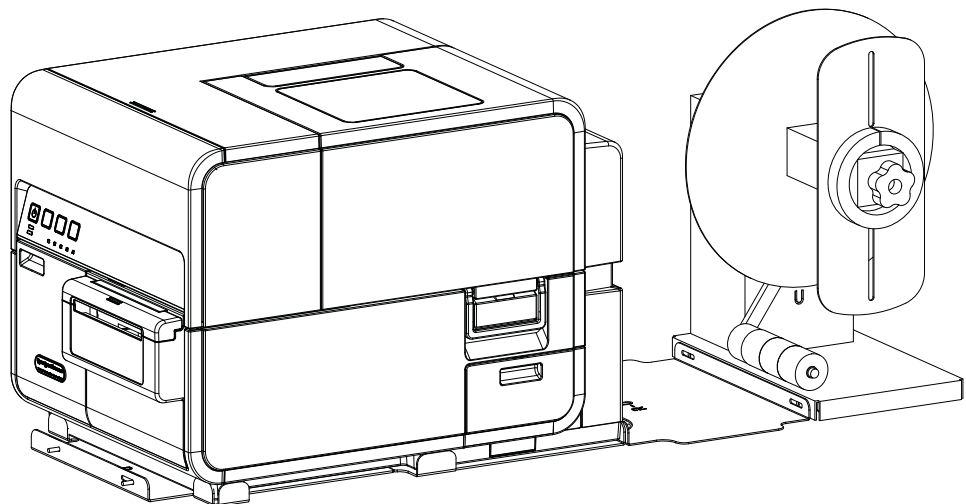
- 6 Use the Moving feature in the QL-111 Maintenance Utility. This utility will prepare the printer for lifting and moving onto the brackets. See “Preparing for Moving” on page 72.

- 7 Holding the handles at the bottom of the printer, lift the printer and then place it on the connected R and U brackets. Lift from the illustrated points. Do not hold the front side of the printer. Ensure the printer remains level as you move it.



Note: The printer weighs about 53 pounds (24 kilograms). Two persons are required to lift the printer. Two persons standing at the front and back of the printer respectively must lift the printer by holding it with their hands under the bottom handles (two at the front, one at the left, and one at the right). Attempting to lift the printer in an improper position can result in the printer falling or injury.

Ensure the printer sits level on the alignment brackets as illustrated below.



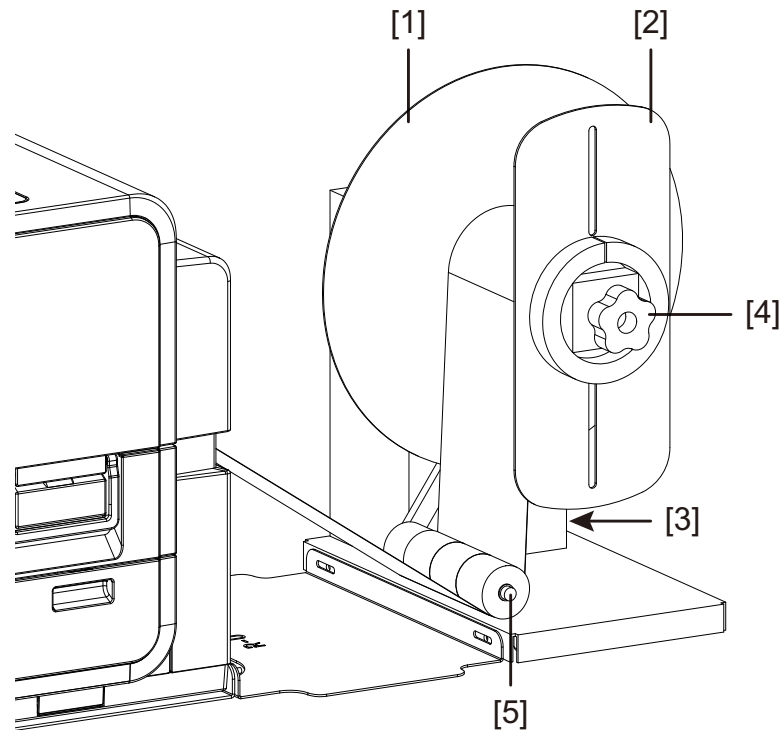
- 8 Plug the power jack into the power slot on the unwinder. Insert the power plug into an AC power receptacle.

Unwinding Labels

The unwinder automatically unwinds media into the QL-111 for printing. This allows for larger diameter rolls to be used as an alternative to the standard roll holder.

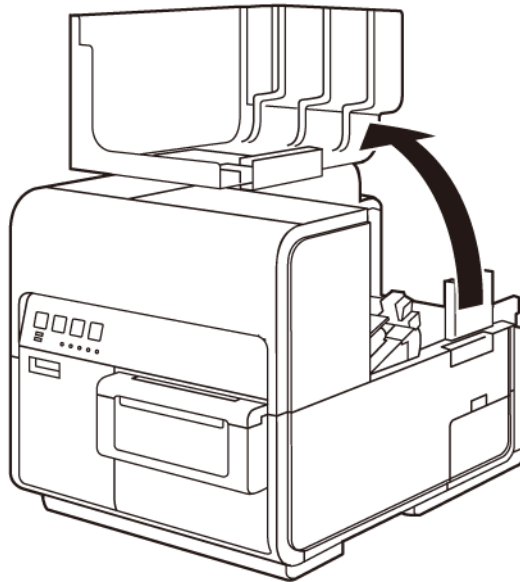
Note: Do not turn the unwinder mandrel by hand to unwind the media. Turning the mandrel by hand can result in unwinder damage.

- 1 Ensure the power switch [3] on the unwinder is in the off position.

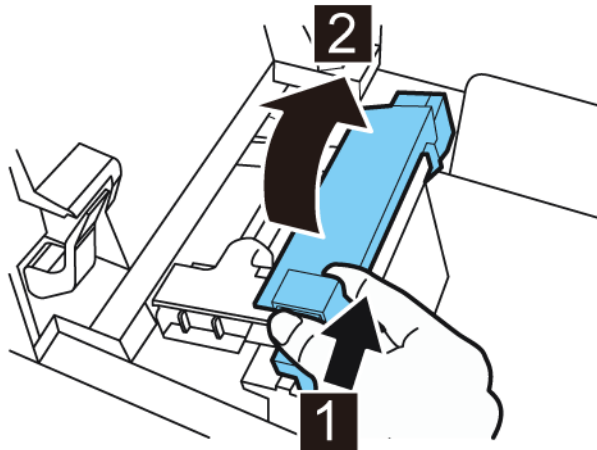


- 2 Turn the unwinder mandrel adjustment knob [4] counterclockwise to loosen the mandrel.
- 3 Remove the outer flange [2] from the mandrel.
- 4 Orient a roll of label media and seat it on the mandrel. The media should unwind over the top of the roll toward the printer. Ensure the side of the roll contacts the inner flange [1].
- 5 Reinstall the outer flange [2] and then turn the mandrel adjustment knob [4] clockwise to tighten the mandrel.

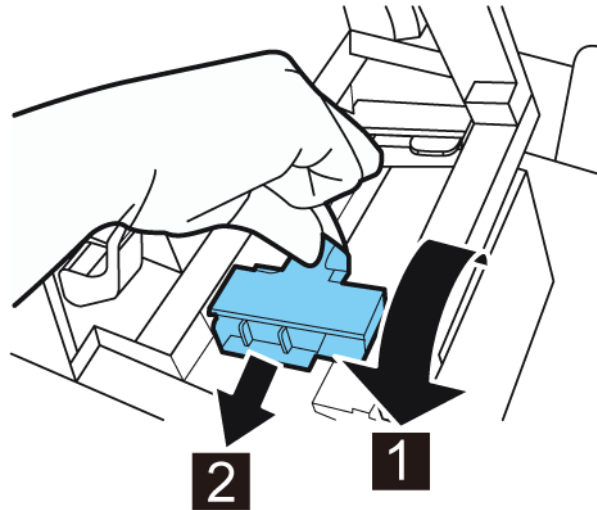
- 6 Open the roll cover.



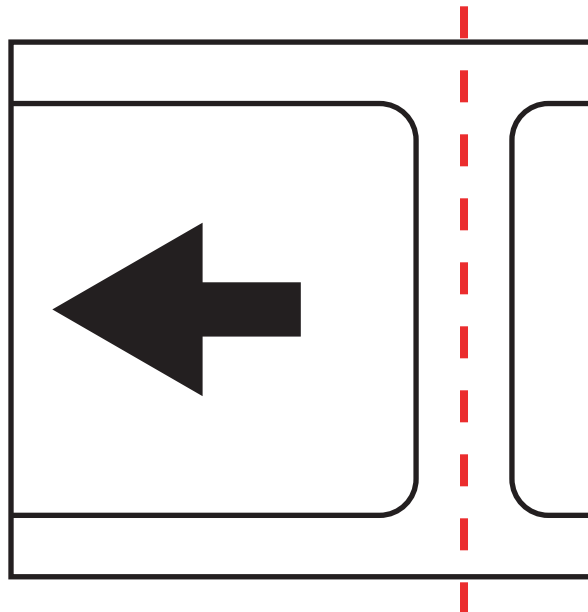
- 7 Remove the roll holder from the printer. The roll holder is unnecessary when using the unwinder.
- 8 Push the lever of the paper guide to open the guide.



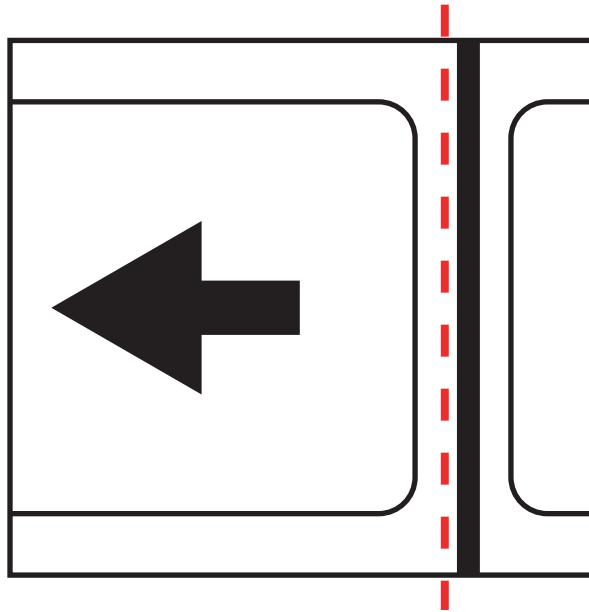
- 9 Open the transport guide (right), and slide it rightward until it stops.



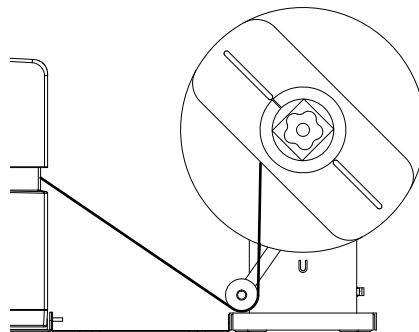
- 10 If you are using gap or reflective mark media, cut the media edge that will be fed into the printer. If you are using continuous media, skip this step.
- If you are using gap media, cut the media between labels as illustrated by the dashed red line below. The arrow indicates the direction of media feed into the printer.



- If you are using reflective mark media, cut the media between labels, but before the mark, as illustrated by the dashed red line below. The arrow indicates the direction of media feed into the printer.

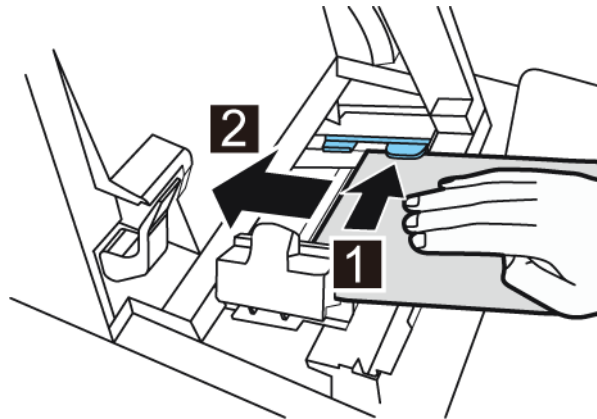


- 11 Turn the power switch [3] on the unwinder to the on position.
- 12 Feed the media under the dancer arm and up into the entry slot on the rear of the printer. The media path is illustrated below.



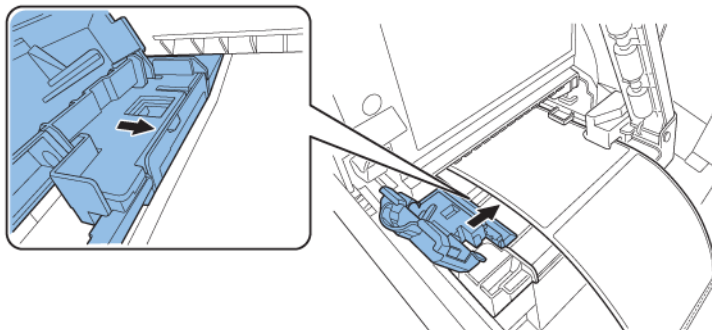
As the dancer arm is lifted, the mandrel will unwind and feed media as needed. Do not turn the unwinder mandrel by hand to advance the media. If you need to advance the media, lift the dancer arm slightly.

- 13** Insert media along the left-side guide under the transport guide (left) until it stops at the roller in the feeder slot.



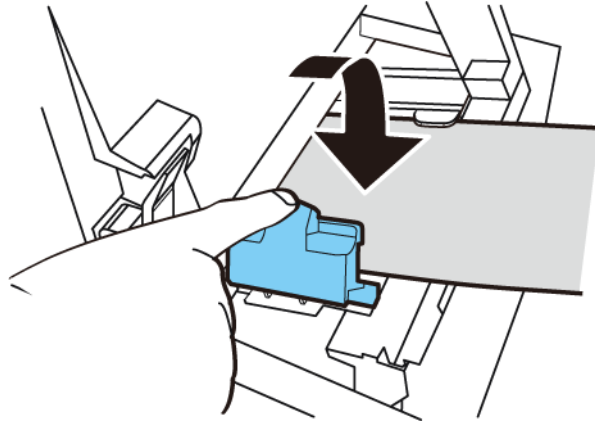
Media at the roller in the feeder slot is automatically pulled in slightly.

- 14** If the media is not squarely aligned in the feeder slot, adjust the position of the unwinder as needed.
- Loosen the thumb screws that fasten the UW-5 unwinder to the R-U bracket. Slide the unwinder left/right as allowed by the adjustment slots until the media is squarely aligned in the feeder slot. Then tighten the thumb screws.
 - If a greater adjustment range is needed, loosen the thumb nuts that fasten the R-U bracket to the U bracket. Slide the unwinder left/right as allowed by the adjustment slots until the media is squarely aligned in the feeder slot. Then tighten the thumb nuts.
- 15** Slide the transport guide (right) in accordance with the width of the media.

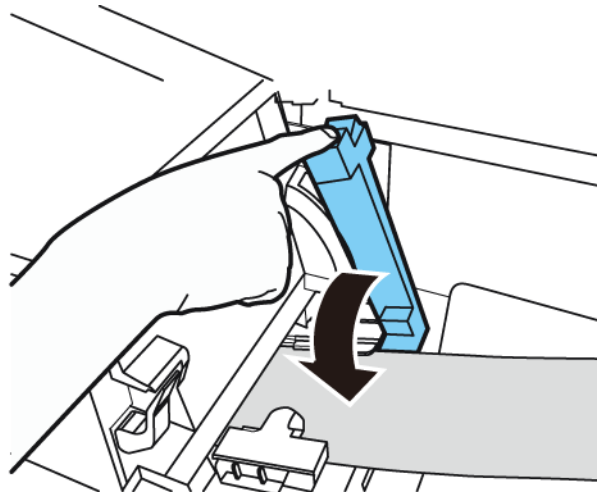


Note: Do not press the transport guide (right) strongly against the media edge. A paper jam can result.

- 16** Slowly close the transport guide (right) to lock it.



- 17** Slowly push the paper guide down until it clicks (locks). When it locks, media is transported automatically.



- 18** Close the roll cover.

9

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°F to 86°F (15°C to 30°C) and 10 to 80% 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: AC 220 - 240 V or AC 100 - 120 V, 50/60 Hz

Power consumption: 440W (max), sleep mode 10W

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

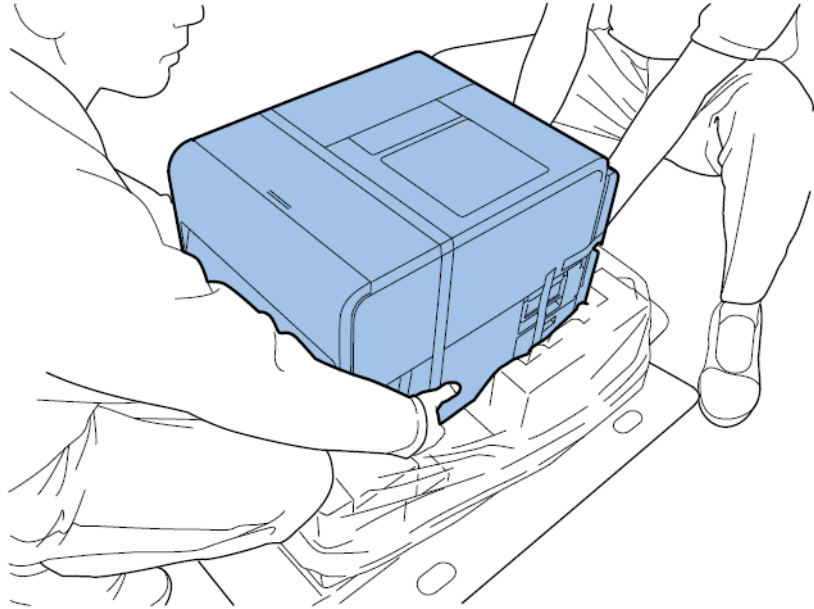
Warning

- 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” on page 72. See “Preparing for Shipping” on page 72.*
- 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 weighs about 53 pounds (24 kilograms). Two persons are required to lift the printer. Two persons standing at the front and back of the printer respectively must lift the printer by holding it with their hands under the bottom handles (two at

the front, one at the left, and one at the right). Attempting to lift the printer in an improper position can result in the printer falling 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.

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Specifications

Printer	
Printing method	Inkjet
Print colors	Full color
Output resolution	600 x 600 dpi
Printing speed	200/160/120/100/90/80/70/60/50 mm/s Auto
Printable area	106.3mm(W) x 397mm(L)
Print margin (relative to media transport direction)	Top and Bottom 1.5 mm Left/Right 2.5 mm When using label media, it must have left and right margins, each of which is 1.5mm or wider in relation to the left and right media edges respectively.
Printhead	5,124 nozzles (number of effective nozzles)
Paper	Matte coated paper, glossy paper
Paper size	25.4 mm - 120 mm (W), 6 mm - 400 mm (L)
Paper thickness	145 ~ 255 µm
Paper capacity	Max 200 mm / Paper core 76.2 mm
Ink used	Aqueous dye-based ink Yellow (Y), Magenta (M), Cyan (C), and Black (Bk)
Interface	Hi-Speed USB, 1000BASE-T/100BASE-TX/10BASE-T
Extension interface	RS-232C X 2
Operating noise	About 70 dB or less

Printer	
Installation environment (temperature)	59 to 86 degrees Fahrenheit 15 to 30 degrees Celsius
Installation environment (humidity)	10% to 80% relative humidity (no condensation)
Power supply	AC100-240V 50/60Hz
Power consumption	Maximum power: 440W or less Sleep mode: 10W or less
Dimensions	15.2 in (W) x 22.4 in (D) X 15.5 in (H) 386 mm (W) X 570 mm (D) X 394 mm (H)
Weight	57.3 lbs with supplies 26 kg with supplies

RW-5 Rewinder & UW-5 Unwinder	
Maximum Rewind Diameter	11.81" (30cm)
Minimum Label Width	1.0" (25mm)
Maximum Label Width	4.72" (120mm)
Core Size	3" ID (76mm)
Rewind Direction	Fixed
Torque	Self-regulating for QL-111
Power	Universal, 100 - 240V, 1.8A, 50-60Hz
Accessories	Includes adjustable printer and winder alignment plates
Dimensions	15.8" (402mm) H x 12.6" (320mm) W x 11.9" (302mm) D
Weight	16 lbs. (7 kg)
Shipping Weight	21 lbs. (14 kg)

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