

Rimage Professional™ 3400 and 5400N User Guide



R I M A G E®



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Introduction


This manual provides the information needed to configure, operate, and maintain the Rimage Professional™ 3400 and 5400N systems. The terms ‘system’ and ‘autoloader’ may be used throughout this manual to refer to both the 3400 and the 5400N; any differences between the 3400 and 5400N are noted. The term ‘printer’ is used to refer to the integrated Everest 400 printer.


For technical information, refer to the *Professional 3400 and 5400N Specifications* section on page 10 of this manual or the *Rimage Professional 3400 and 5400N Specification* document found at www.rimage.com/support. From the **Support** menu select: **Professional Series > Product Name > User Manuals** tab.


 **Note:** Your Professional 3400 or 5400N system may not look exactly like the model featured in this user guide.


About this User Guide


- While we try to maintain all versions of our manuals and documentations, please note that the English version found on our web site always contains the most up-to-date information.
- Unless otherwise indicated, all Windows navigation statements are Windows XP paths. Other Windows operating system navigation may differ slightly.
- These symbols are used throughout the manual to help clarify information:

 **Note:** A Note provides supplemental information or information that may apply only in special cases. For example, memory limitations, equipment configurations, or details that apply to specific versions of a program would be included in a Note.

 **Tip:** A Tip provides techniques and procedures to help with your specific needs. A Tip suggests alternative methods that may not be obvious and helps you understand the benefits and capabilities of the product.

 **Important!** An Important note provides information essential to the completion of a task. You can disregard information in a Note or Tip and still complete a task, but do not disregard an Important note.

 **Caution:** A Caution indicates that failure to observe this guideline could result in loss or damage to the equipment, product, software, or data.

 **Warning!** A Warning indicates that failure to follow this guideline could result in bodily injury to personnel operating or maintaining the equipment.

About the Professional 3400 and 5400N

The 3400 and 5400N are part of the Rimage Professional series of products. The 3400 system consists of the 3400 autoloader and an integrated Everest 400 printer. The 5400N systems consists of the 5400N autoloader, an integrated Everest 400 printer, and an embedded control center (PC). Information about the integrated Everest 400 printer is included in this user guide.

An external PC must be used with the non-embedded 3400 system. The external PC does not ship with a non-embedded system; you must provide a PC to be used as the external control center. Refer the *Professional 3400 and 5400N Specifications* section on page 10 for the minimum PC requirements for the 3400.

The embedded PC in the 5400N is a network-ready device that receives orders from other networked computers. You can also operate the autoloader remotely by using Microsoft Remote Desktop Connection or Rimage WebRSM or locally by attaching a monitor, keyboard, and mouse.

For information about setting up and submitting orders from a networked PC, refer to the *Rimage Advanced Setup (Networking) Guide* available at www.rimage.com/support.

Accessory Kit

The Rimage Accessory Kit that shipped with your Professional 3400 or 5400N contains the following:

3400	5400N
<ul style="list-style-type: none"> • <i>Rimage Professional 3400 Setup and Installation Guide</i> • User documentation disc containing: <ul style="list-style-type: none"> ▪ <i>Rimage Professional 3400 and 5400N User Guide</i> (this document) ▪ <i>Advanced Setup (Networking) Guide</i> ▪ <i>Diagnostic Test Instructions</i> • A/C cord • USB cord • Disc holder with Rimage Standalone Software disc or Network Software Suite disc • <i>Rimage Product Warranty/Guarantee</i> • <i>Getting Started with Your Rimage Software</i> guide • Marketing CD 	<ul style="list-style-type: none"> • <i>Rimage Professional 5400N Setup and Installation Guide</i> • User documentation disc containing: <ul style="list-style-type: none"> ▪ <i>Rimage Professional 3400 and 5400N User Guide</i> (this document) ▪ <i>Advanced Setup (Networking) Guide</i> ▪ <i>Diagnostic Test Instructions</i> • A/C cord • DVI/USB dongle • Disc holder with Rimage Professional Software Suite disc and Rimage Recovery Disc • <i>Rimage Recovery Disc Instructions</i> • <i>Rimage Product Warranty/Guarantee</i> • <i>Getting Started with Your Rimage Software</i> guide • Marketing CD

Unpacking and Setup Instructions

To unpack your Professional 3400 or 5400N, refer to the unpacking label on the autoloader box. For setup instructions, refer to the *Setup and Installation Guide* that shipped with your product.

Important Information

This section provides support contact information, cautions and warnings, and product specifications for the Professional 3400 and 5400N.

Support Information

US, Asia/Pacific, Mexico/Latin America	Europe
Rimage Corporation 7725 Washington Avenue South Minneapolis, MN 55439 USA Attn: Rimage Services	Rimage Europe GmbH Albert-Einstein-Str. 26 63128 Dietzenbach Germany
Contact Rimage Services: Website: www.rimage.com/support KnowledgeBase: http://rimage.custhelp.com Log in and select the Ask a Question tab Telephone: North America: 800-553-8312 Asia/Pacific, Mexico/Latin America: 952-946-0004 Fax: 952-946-6956	Contact Rimage Services Europe: Website: www.rimage.de Email: support@rimage.de Telephone: +49-(0) 1805-7462-43 Fax: +49-(0) 6074-8521-101

When you contact Rimage Services, please provide: <ul style="list-style-type: none"> • System serial number and software version • Functional and technical description of the problem • Exact error message received 	My Rimage Product Information: Copy this information from your Rimage product for future reference. Note: Make sure you update the Serial Number here anytime you receive a replacement system.
	Serial Number:
	Product Name:
	Date of Purchase:

Learn More Online

At www.rimage.com/support, you can experience Rimage's world-class Support and Services.

From the Support home page: <ol style="list-style-type: none"> 1. Select your product series. 2. Select your product. 3. Learn more on the product page. 	From your product page you can access: <ul style="list-style-type: none"> • Information about the latest software and firmware updates • Product specifications • The latest documents • Current firmware and driver downloads
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Technical Support

Rimage offers a variety of service and support options for the Professional 3400 and 5400N including Next Business Day On-site Agreements, Exchange Services, and Software Subscriptions and Support. Please contact your Rimage Value Added Reseller or Rimage for additional information and pricing.

Important! Make sure that you register your autoloader so Rimage can notify you of upgrades as they become available. Registration is available at <http://www.rimage.com/support/warranty-registration>.

Optical Disc Recording Software Disclaimer

This Product, Software, or Documentation may be designed to assist you in reproducing material in which you own the copyright or have obtained permission to copy from the copyright owner. Unless you own the copyright or have permission to copy from the copyright owner, you may be violating copyright law and be subject to payment of damages and other remedies. If you are uncertain about your rights, you should contact your legal advisor. If you are neither in possession of the copyright nor have authorization from the owner of the copyright, unauthorized copying of copyrighted material on an optical disc or any other media violates national and international legislation and can result in severe penalties.

Safety and Compliance Information

This manual and the indications on the product allow proper and safe operation. The indication marks below help protect you and other persons from injury, and equipment from damage.

Safety Precautions

To ensure safety, read these precautions and familiarize yourself with their meaning before using the equipment.

Warnings!

- *The laser beam used by the CD/DVD Recorder is a Class 1 laser. Do not attempt to open the recorder. An authorized technician should perform all service procedures.*
- *Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiant exposure.*
- *Never use any optical instrument in conjunction with this unit. To do so will greatly increase the hazard to your eyes.*
- *Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiant exposure.*
- *Do not disassemble or use tools on the printer. All service procedures should be performed by a Rimage-authorized technician, or sent in for Rimage-authorized repair.*
- *The interior of the printer contains sharp edges.*
- *Do not touch the heat roller.*
- *Do not touch the circuit boards. The circuit boards can be damaged by electrostatic.*
- *Do not remove the back panel unless the autoloader has been powered off.*
- *Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.*
- *This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.*
- *This equipment complies with FCC radiation exposure limits set forth for a controlled equipment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).*

Cautions:

- *For continued protection against risk of fire, replace the fuse only with the same type and rating. An authorized technician should perform all service procedures.*
- *Use only the supplied AC power cord, or use a safety agency approved power cord. For applications outside North America, refer to the nearest Rimage office for assistance in selecting a locally approved power cord.*
- *This product is designed for an office environment.*
- *The Professional 3400 and 5400N contain a lithium battery. There is a risk of explosion if the battery is replaced by an incorrect battery. Dispose of the old battery according to the manufacturer's instructions included with the battery packaging.*
- *All equipment with AC line voltage, or low DC voltages, such as switches, power supplies, fuses, fans, and non-stepper motors, must be replaced with Rimage-approved components to maintain the safety approval issued by UL.*
- *Allow sufficient free space for opening the printer tray. Do not touch the printer tray while it is in motion.*
- *If the side cover is opened while power is supplied, the printer will stop. Do not reach into the printer while it is in operation. Do not attempt to bypass the door interlock.*

Country-specific Cautions and Warnings for Wideband Data Transmission Systems: 2400-2483.5 MHz

⚠ Cautions:

- *France: Do not use outdoors.*
- *Italy: If used outside of own premises, general authorization is required.*
- *Norway: This subsection does not apply for the geographical area within a radius of 20km from the center of NY-Alesund.*

⚠ Warning!


- *Canada: This equipment complies with IC radiation exposure limits set forth for a controlled equipment and meets RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).*




Compliance Information

Product	Professional 3400	Professional 5400N
Model	RAS26	RAS26E
Notice for USA	<p>NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when this equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.</p> <p>This product complies with UL 60950-1, 1st edition.</p>	
Notice for Canada	<p>This Class A digital apparatus complies with Canadian ICES-003 Issue 4:2004. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada. This product complies with CAN/CSA-C22.2 No. 60950-1-03 1st edition.</p>	
Notice for Europe	<p>This product is in conformity with the EMC Directive (89/336/EEC) and the Low-Voltage Directive (73/23/EEC) through compliance with the following European standards: EN 55022: 1998 + Amd 1: 2000 Class B Limit; EN 55024: 1998; EN 61000-3-2:2000; EN 61000-3-3:1995 + Amd 1: 2001; EN 60950: 2000. The CE mark has been affixed in accordance with the CE Marking Directive 93/68/EEC.</p>	
Notice for Japan	<p>This is a Class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio interference may occur, in which case, the user may be required to take corrective action.</p> <p>Translation: この装置は、情報処理装置等電波障害自主規制協議会（V C C I）の基準に基づくクラス A 情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。</p>	
Notice for Australia	<p>This product complies with AS/NZS CISPR22:2004.</p>	
Notice for Korea	<p>It is certified that foregoing equipment has been certificated under the Framework Act on Telecommunications and Radio Waves Act.</p> <p>위 기기는 전기통신기본법, 전파법 에 따라 인증되었음을 증명 합니다.</p>	

Professional 3400 and 5400N Specifications

This section provides technical specification information for the non-embedded 3400 and the embedded 5400N system. Refer to page 12 for the Everest 400 printer specifications.

 **Note:** The most up-to-date technical specifications for the Professional 3400, 5400N, and integrated Everest 400 printer are located at www.rimage.com/support. From the Support menu select: **Professional Series > Product Name > User Manuals** tab.

	3400	5400N
Standard system	Professional 3400 autoloader, integrated Everest 400 printer, and Rimage Standalone Software Suite (RSS) or Network Software Suite (NSS).  Note: Non-embedded 3400 systems require an external control center (PC). External PCs are not shipped with Rimage non-embedded systems. Refer to the minimum PC requirements section below for more information.	Professional 5400N autoloader, integrated Everest 400 printer, Rimage Producer Software Suite (PSS), and an embedded control center (PC).
Physical Size		
Height	18 in (46 cm)	18 in (46 cm)
Width	14.25 in (36 cm)	14.25 in (36 cm)
Depth	18.5 in (47 cm)	18.5 in (47 cm)
Weight	64 lb (29 kg)	69 lb (31 kg)
Software requirements	Rimage Standalone Software Suite (RSS) or Network Software Suite (NSS) 8.3 or higher.	The required software is installed on the embedded PC.
PC requirements	 Important! If you do not understand these requirements, ask your computer technician for help or refer to your PC documentation.  Note: The Professional 3400 and 5400N are not Macintosh compatible.	
Supported operating systems (32-bit only)	<ul style="list-style-type: none"> • Windows Vista Business SP2 • Windows Vista Enterprise SP2 • Windows Vista Ultimate SP2 • Windows XP Professional SP3 • Windows Server 2003 Standard SP2 	The supported operating system is installed on the 5400N embedded PC. Only the installed operating system is supported on this product.
Minimum PC requirements	Processor: Pentium 4, 2.8 GHz or faster RAM/Memory: 1GB I/O: Use an integrated high-speed USB 2.0 port (using a USB expansion card is not recommended) Fixed Storage: Two 7,200 RPM hard drives with 10GB free space on each hard drive Removable Storage: CD/DVD-ROM	The 5400N embedded PC is equipped with the minimum PC requirements.

Specifications are continued on page 11.

	3400	5400N
Media requirements	Use Rimage Media Kits™ for optimum recording and print performance. Learn more about Media Kits at www.rimage.com .	
Networking ability	To submit orders from a networked PC, refer to the <i>Rimage Advanced Setup (Networking) Guide</i> which shipped with your system and is available at www.rimage.com/support .	
Number of recorders	2 Any combination of CD, DVD, or Blu-ray Disc™ recorders.	
Bin capacity	<p>Input bin 50 discs per bin. The carousel has 3 input bins.</p> <p>Output bin The external output bin (on the left side of the autoloader) holds up to 8 discs.</p> <p> Note: Through the Rimage software, you can designate a bin in the carousel to be the output bin. In this case, the output bin holds up to 100 discs before operator intervention is required.</p>	
Power	100 – 240 VAC, 60/50 Hz, 4.7 – 3.7 Amp, 500 watt maximum	
Temperature and Humidity	<p>Operating temperature 60° to 86° F (16° to 30° C)</p> <p>Operating Humidity 40% to 80%, non condensing</p> <p>Storage temperature 5° to 95° F (-15° to 35° C)</p>	

Everest 400 Printer Specifications

The table below provides product specification information for the integrated Everest 400 printer.

ⓘ **Important!** If you do not understand these requirements, ask your computer technician for help or refer to your PC documentation.

	Everest 400
Printing speed*	60 seconds or less
Printing modes	Monochrome and CMY
Print quality	Equivalent of 400 pixels per inch
Ribbon capacity	
Black (monochrome)	1000 discs
CMY	500 discs
Retransfer	500 discs
Ribbon requirements	Refer to the <i>Printer Requirements</i> section on page 13 for the correct printer ribbons. Use Rimage Media Kits™ for optimum recording and print performance.
Label design requirements	Refer to the <i>Label Design Requirements</i> section on page 14 for label design requirements.
Ribbon storage requirements **	
Temperature	41° to 95° F (5° to 35° C)
Humidity	45% to 85%

*The first print takes 5 minutes, which includes warm-up time.

**For optimum results, make sure that the Everest ribbons are stored within these ranges.

Printer Requirements

This section describes ribbon, label design, and print requirements for the integrated Everest 400 printer.

Ribbon Requirements

⚠ Important!

- Rimage only supports the use of Rimage brand ribbons in our printers. Printer issues that occur as a result of using ribbons from manufacturers other than Rimage are not included under your Rimage warranty or maintenance agreement.
- For optimum results, make sure that Everest ribbons are stored at a temperature between 41° and 95°F (5° to 35°C) and humidity level between 45% and 85%.
- Avoid moisture and direct sunlight.
- Do not reuse ribbons.
- Use only ribbons designed for your Everest 400 printer. Refer to the table below.

The integrated Everest 400 printer requires a print ribbon and a retransfer ribbon. The standard print ribbon has three colors: Cyan, Magenta, and Yellow (CMY). These three colors combine in printing to create full-color discs. Print ribbons are also available in black (monochrome).

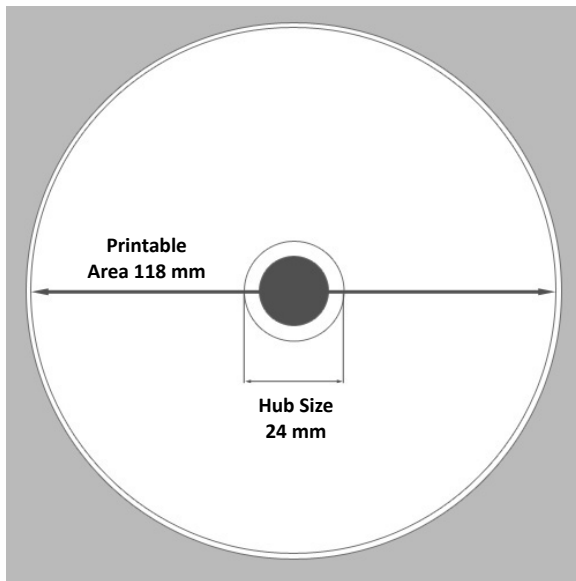
Everest 400 Ribbons

Ribbon Type	Number of Discs Printed
3-color (CMY)	500
Black (monochrome)	1000
Retransfer ribbon	500

Label Design Requirements

The Rimage Windows-compatible software ships with the CD Designer™ label editor. CD Designer is installed on the embedded or non-embedded PC during a typical installation of the Rimage software and is used for designing labels for printing with the integrated Everest 400 printer. CD Designer can be used to design labels on any Windows-based PC.

- **Label design size** – Design labels with a height of 12 cm and width of 12 cm. A full-size disc is 120 mm (4.723") in diameter. The hole is 15 mm (0.59") The printable area and hub sizes vary depending on the disc manufacturer.
 - ✎ **Note:** The media that are in Rimage Media Kits have a printable area of 118-24 mm. On most labels, print settings of 118 mm and 24 mm are recommended.



- **File format** – For best results, save your labels as JPEG or TIFF files. However, these file formats must be imported into CD Designer and saved as CD Designer files (.btw) or converted to PDF files before printing.
- **Color mode** – Convert all labels to the RGB color mode in order to import them into CD Designer.
- **Resolution (pixels per inch)** – For best results, use images set to a minimum of 300 pixels per inch. You may notice better results if you use images with 600 pixels per inch or higher.

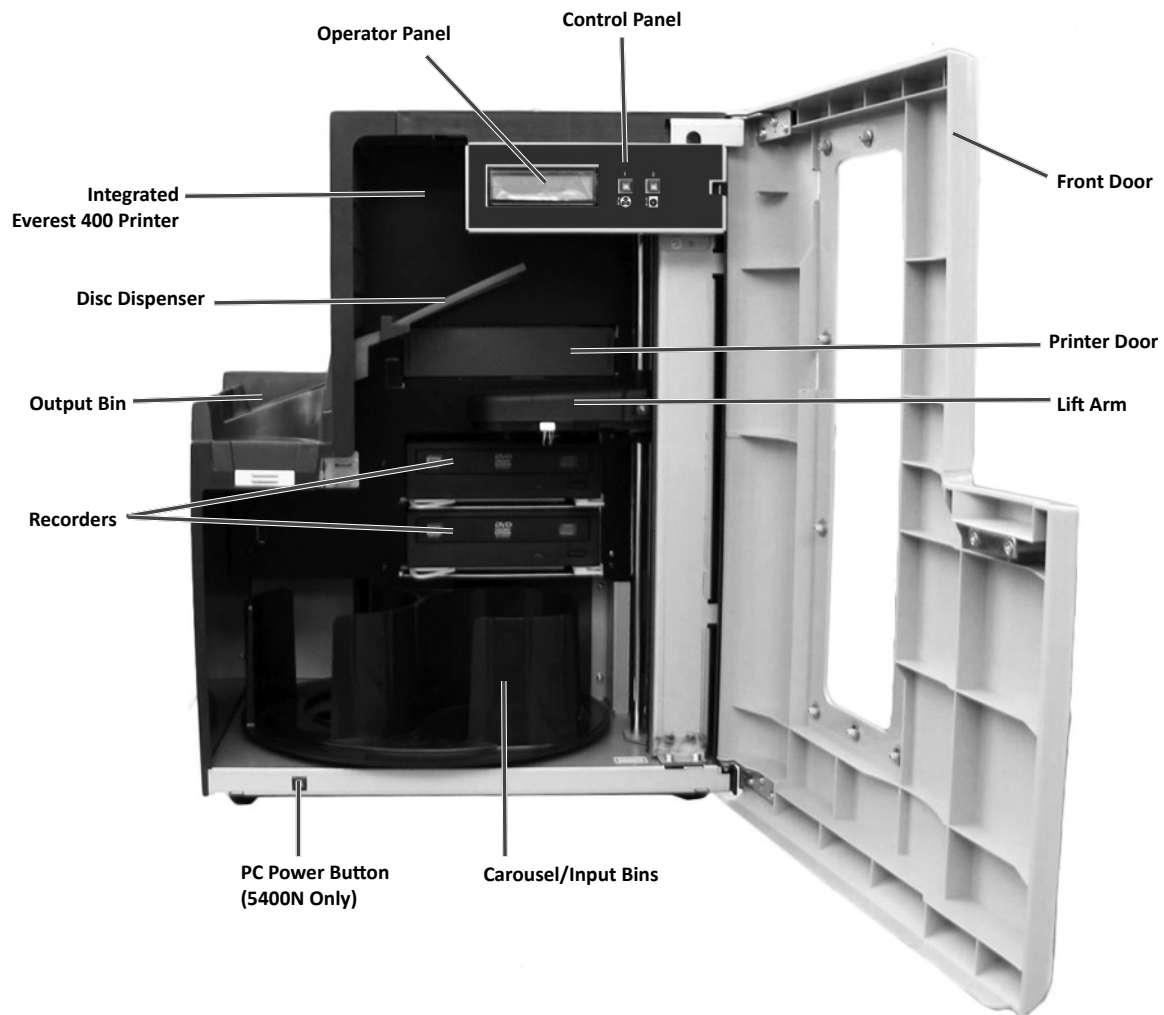
Print Requirements

Any label you create and save through CD Designer is in the correct file format (.btw) for printing to the integrated Everest 400 in the 3400 and 5400N system. You can also print labels saved as PDF files.

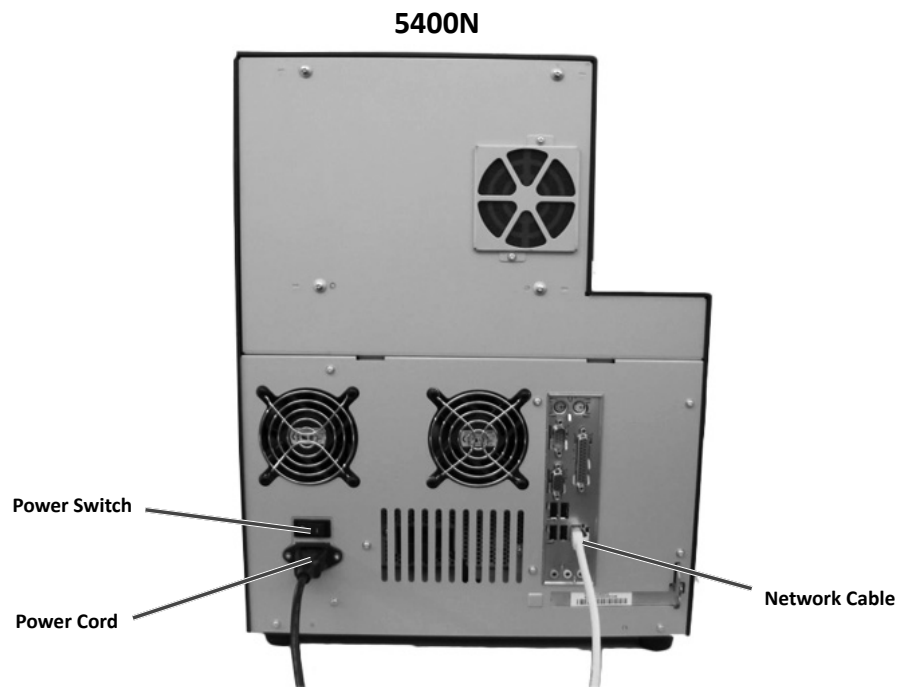
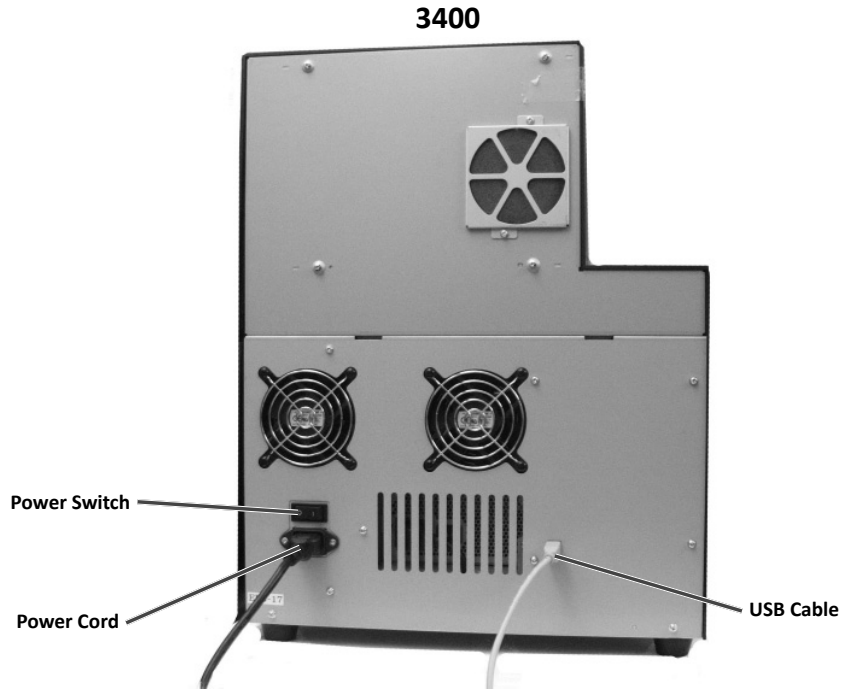
Identify the Parts of the Professional 3400 and 5400N

This section describes the hardware and features of the 3400 and 5400N systems.

Front View



Back View



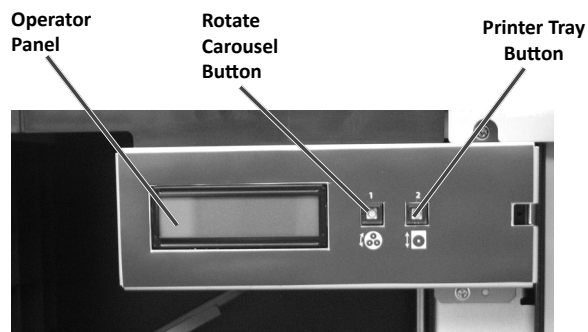
Parts Information

Control Panel

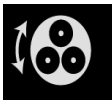
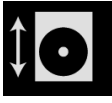
The control panel is located on the front of the 3400 and 5400N. It includes the **operator panel**, the **rotate carousel button (button 1)**, and the **printer tray button (button 2)**. The control panel allows you to monitor and control the system.

Note: You must open the front door of the autoloader to access the control panel.

The table below identifies the name and function of all parts of the control panel.



Control Panel Indicators

Name	Function
Operator panel	The operator panel has a two-line display that informs you of operations or conditions that require operator intervention. This includes the consumable status. The 5400N displays the name of the embedded PC after initialization. Refer to the <i>Operator Gemini Utilities</i> section on page 41 to see other options.
Rotate carousel button (button 1) 	<p>Press the rotate carousel button to</p> <ul style="list-style-type: none"> Rotate the carousel and position a bin to load and unload discs. Each time you press the rotate carousel button, the carousel rotates to the next bin. <p> Tip: The carousel will rotate to a bin only after the autoloader has completed initializing.</p> <ul style="list-style-type: none"> Enter diagnostic test mode
Printer tray button (button 2) 	<p>Press the printer tray button to:</p> <ul style="list-style-type: none"> Open and close the printer tray Reset after an error
Printer indicator light (on the printer tray button)	The printer indicator light illuminates when the printer is powered on and has completed initialization. The printer indicator light flashes when the Everest 400 printer is receiving data from the host.
Rotate carousel indicator light (on the rotate carousel button)	The rotate carousel indicator light illuminates when you rotate the carousel. The rotate carousel indicator light flashes when the autoloader is receiving data from the host.

PC Power Button

Only the 5400N has the PC power button. The PC power button powers on the embedded computer. Refer to the *Operate the Professional 3400 and 5400N* section on page 19 for more information.

Disc Dispenser

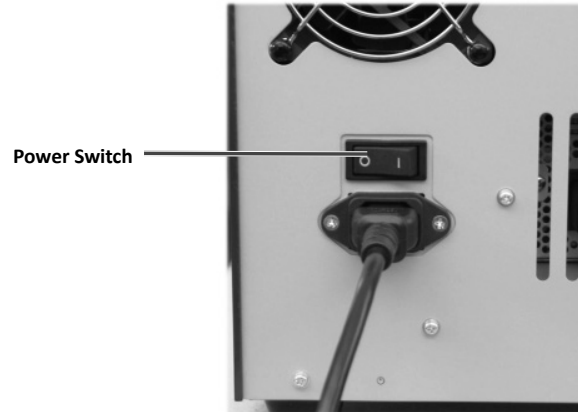
When a disc is complete, the lift arm places discs on the disc dispenser. The disc dispenser moves completed discs to the output bin on the left side of the autoloader. The output bin holds up to 5 discs. Refer to the *Professional 3400 and 5400N Specifications* section on page 10 for more information.

Operate the Professional 3400 and 5400N System

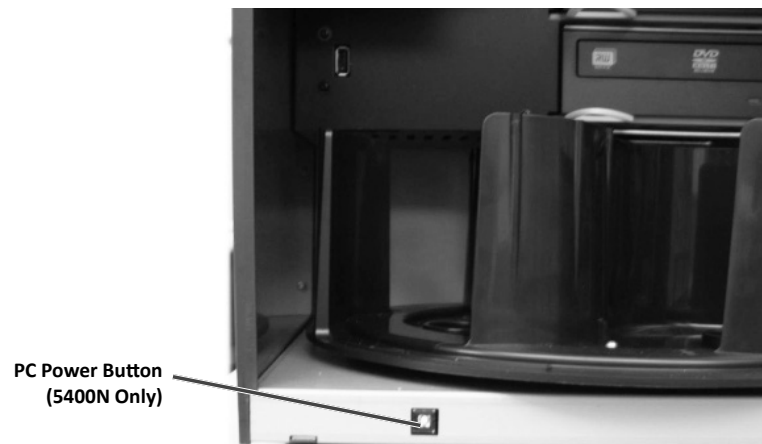
This section provides the information needed to operate your system.

Power On the System

1. Press the **power switch** on the rear of the autoloader. The system powers on, including the integrated printer.
If you have an 5400N, continue with step 2.



2. On the front of the 5400N, press the **PC power button** to power on the embedded PC.



Power Off the System

1. Close all open **applications**.
2. If you have an 5400N briefly press the **PC power button**. This shuts down the software, Windows, and the embedded PC.
If you have a 3400, continue with **step 3**.

⚠ Caution: Do **not** press and hold the PC power button. If you press and hold the PC power button, the embedded PC will not shut down properly. This may cause data loss or corruption.

3. Press the main **power switch** to power off the system, including the integrated printer.

! **Important!** Do not press the power switch until the embedded PC is completely powered off.

📝 Notes:

- It takes approximately 30 seconds for the system to power off.
- If the printer is idle for more than 30 minutes, it enters sleep mode. When this occurs, the printer will take 2-3 minutes to warm up after a job is sent.

Pause the System

You can pause the system to add discs to the carousel.

1. Open the **front door**. The operation pauses.
2. Close the **front door**. The operation resumes.

Load the Discs

You can load up to 50 discs in each input bin. Use the procedure below to load discs in each bin.

1. Open the **front door**.
2. Press the **rotate carousel button** to rotate the carousel and place a bin in position to load discs.
3. Remove any **completed discs** from the bin.

⚠ **Important!** Place the discs with the recording side facing down.

📖 **Tip:** Through the Rimage software, you may designate bins 1 through 3 as input, output, reject, or a specific media type.

4. Repeat **steps 2 - 3** until the required bins are filled.
5. Close the **front door**.



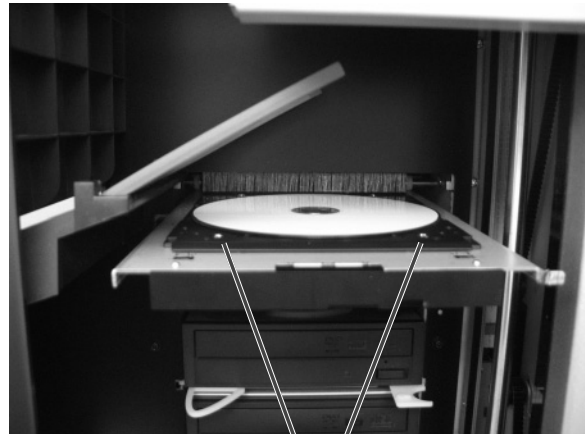
Unload the Discs

1. Open the **front door**.
2. Press the **rotate carousel button** to rotate the carousel and place a bin in position to remove discs.
3. Remove the **discs** from the bin.
4. Repeat **steps 2 - 3** until the required bins are empty.
5. Close the **front door**.

Place a Disc on the Printer Tray

Use this procedure to manually place a disc on the printer tray.

1. Press the **printer tray button** on the control panel. The printer tray opens.
 2. Place the disc on the **print pad** with the printable surface facing up and the stacking ring facing the print pad.
 3. Press the **printer tray button**. The printer tray closes.
- ❗ **Important!** To avoid scratching or damaging the recording surface of the disc, the disc must not rest on the holding pins or the centering pin.



Holding Pins

Place a Disc on the Recorder Tray


Use this procedure to manually place a disc on the recorder tray.

1. Press the **recorder button** on the recorder you wish to open. The recorder tray opens.
2. Place the disc on the **recorder tray** with the printable surface facing up.
3. Press the **recorder button**. The recorder tray closes.



Set Your Printing Preferences on a Windows PC


This section provides the information needed to set up your printing preferences and check the amount of print and retransfer ribbon remaining using a Windows PC. Printing preferences allow you to set up the integrated Everest 400 printer to produce the best possible labels on your discs.

 **Note:** Unless otherwise indicated, all Windows navigation statements are Windows XP paths. Other Windows operating system navigation may differ slightly.

Access Printing Preferences


Use one of the procedures below to access the *Everest 400 Printing Preferences* window.

Access Printing Preferences through the Windows Start Menu

 **Note:** When you use this method, the printing preferences are saved in the printer driver settings and are applied to all newly created labels.

1. Select: **Start > Printers and Faxes**.
2. Right-click the **Rimage Everest 400 printer**. The dropdown menu displays.
3. From the dropdown menu, select **Printing Preferences**. The *Rimage Everest 400 Printing Preferences* dialog box opens.

Access Printer Preferences through CD Designer

 **Note:** When you use this method, the printing preferences are saved with the label file and are used instead of the printer driver settings.

1. Open the desired **label file** in CD Designer.
2. From the **File** menu, select **Print**. The *Print* window opens.
3. From the **Name** dropdown list, select the **Rimage Everest 400 printer**.

 **Note:** The Rimage Everest 400 printer may display as the default printer.

4. Select the **Document Properties** button. The *Rimage Everest 400 Properties* dialog box opens.

Access Printer Preferences for Printing PDF Files


Use the procedure below to access printing preferences for PDF files.

 **Important!** When you use this procedure, the changes to the settings are global and apply to all PDF labels.

1. Select: **Start > Printers and Faxes**.
2. Right-click on the **Everest 400 printer**. The dropdown menu displays.
3. From the dropdown menu, select **Properties**. The *Rimage Everest 400 Properties* dialog box opens.
4. From the *Rimage Everest 400 Properties* dialog box, select the **Advanced** tab.
5. At the bottom of the **Advanced** tab, select **Printing Defaults...** The *Rimage Everest 400 Printing Defaults* dialog box opens.


Set the Media Type, Media Size, Orientation and Ribbon Type

1. Access *printing preferences*. Refer to page 23 for instructions.
2. Select the **Main** tab.
3. View or change the printing preferences.
 - a. Select the appropriate **Media Type**.
 - b. Select the appropriate **Media Size**.
 - c. Select the desired number of **Copies**.
 - d. Select the desired **Orientation**.
 - e. Select the appropriate type of **Ribbon**.

 **Note:** If you select **Monochrome** for the ribbon type, select **Grayscale** or **Text**.
4. When you have made the desired choices in the *Rimage Everest 400 Printing Preferences* window, select **Apply**.
5. Select **OK** to close the *Rimage Everest 400 Printing Preferences* window.

Set the Print Quality, Color Matching and Image Adjustments

1. Access *printing preferences*. Refer to page 23 for instructions.
2. Select the **Advanced** tab.
3. View or change the printing preferences.
 - a. Select the desired criteria for **Color Matching**.

 **Note:** The default setting for color matching is Match for CMYK printing.
 - b. From the **Image Adjustments** dropdown list, select **None**, **High contrast**, **Vivid colors**, or **Custom**.
If you select **Custom**, the **Settings** button becomes active:
 - i. Select the **Settings** button. The *Custom Settings* window opens.
 - ii. Select the desired **Print Threshold Settings**.
 - iii. Move the **Contrast Boost** slider to adjust the image contrast.
 - iv. Move the **Saturation Boost** slider to adjust the image saturation.
 - v. Select **OK** to close the *Custom Settings* window.
4. When you have made the desired choices in the *Rimage Everest 400 Printing Preferences* window, select **Apply**.
5. Select **OK** to close the *Rimage Everest 400 Printing Preferences* window.

Set the Printable Area



This functionality allows you to adjust the printable area settings for standard CD/DVD 120 mm media, which sets the outer and inner diameters to print the disc label without overlapping the disc edges.

 **Note:** Printable area settings created within a CD Designer label file will override the printer and fax settings on Windows.

1. Access *printing preferences*. Refer to page 23 for instructions.
2. Select the **Advanced** tab.
3. View or change the Printable Area preferences.
 - a. Select the **Modify** button. The *Printable Area Settings* window opens.
 - b. Select the **Unit** of measurement.
 - i. For 1.0 mm, select the **1.0 mm** radio button.
 - ii. For 0.1 mm, select the **0.1 mm** radio button.

- c. To modify only *Standard Area* settings, select the **Standard** radio button.
 - i. Enter the desired **Outer Diameter**.
 - ii. Enter the desired **Inner Diameter**.
 - d. To print on a disc with a stacking ring, select the **Advanced** radio button. The Hub Area settings display.
 - i. Enter the desired **Outer Diameter** for the hub.
 - ii. Enter the desired **Inner Diameter** for the hub.
 - e. Select **OK** to save the changes. The *Printable Area Settings* window closes.
4. When you have made the desired choices in the *Rimage Everest 400 Printing Preferences* window, select **Apply**.
 5. Select **OK** to close the *Rimage Everest 400 Printing Preferences* window. Adjust the Print Alignment and Color Density.

Adjust the Print Alignment and Color Density

1. *Access printing preferences*. Refer to page 23 for instructions.
2. Select the **Utility** tab.
3. Select **Status Monitor...** button. The *Rimage Everest 400 Status Monitor* window opens with the **Status** tab active.
 **Tip:** On the **Status** tab, you can view the progress of a print job, the type of print ribbon installed, and the estimated percentages of unused ribbon for the print and retransfer ribbons.
4. Select the **Printer Information** tab to view or change the Print Alignment and Color Density settings, or view the Everest 400 Printer Status.
 **Tip:** The **Printer Information** tab also displays the current firmware version and serial number of your Everest 400 printer.
 - a. View or change the **Print Alignment Settings**.
 - i. From the *Print Alignment Settings* pane, select the **Modify** button. The *Print Alignment Settings* dialog opens.
 - ii. Select the desired **Color/Monochrome** setting to modify the horizontal alignment for all ribbon types.
 - iii. Select the desired **Color** setting to modify the vertical alignment for prints with a CMY ribbon.
 - iv. Select the desired **Monochrome** setting to modify the vertical alignment for prints with a monochrome ribbon.
 - v. Select **OK** to save the changes. The *Print Alignment Settings* window closes.
 - b. View or change the **Color Density Settings**.
 - i. From the *Color Density Settings* pane, select the **Modify** button. The *Color Density Settings* dialog opens.
 - ii. Select the desired **Cyan, Magenta** and **Yellow** settings to modify the color density.
 - iii. Select the desired **Black** setting to modify the density for monochrome images.
 - iv. Select **OK** to save your changes. The *Color Density Settings* window closes.
5. Select **Close** to close the *Status Monitor* dialog box.
6. Select **OK** to close the *Rimage Everest 400 Printing Preferences* window.

Check the Ribbon Remaining

The operator panel on the front of the 3400 and 5400N displays the estimated number of prints remaining on the print ribbon and the retransfer ribbon.



Change the Print and Retransfer Ribbons

This section provides the information needed to change the print and retransfer ribbons in the integrated Everest 400 printer. Change a 3-color (CMY) print ribbon after 500 discs, a back (monochrome) print ribbon after 1000 discs, and the retransfer ribbon after 500 discs.

Change the Print Ribbon

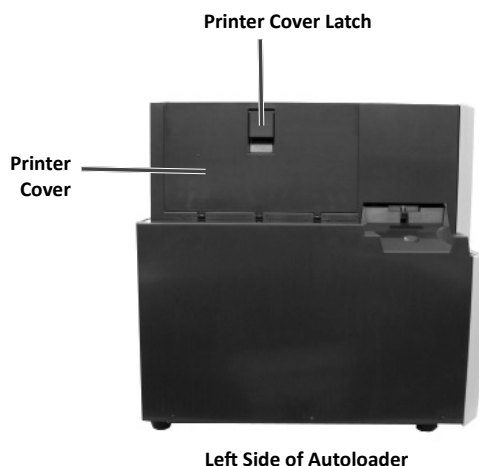
Before you change or first install a new Everest print ribbon, allow time for the new ribbon to become acclimated to the environment. Allow more time for greater temperature and humidity differences.

! Important!

- Rimage supports only the use of Rimage brand ribbons in our printers. Printer issues that occur as a result of using ribbons from manufacturers other than Rimage are not included under your Rimage warranty or maintenance agreement.
- For optimum results, make sure that Everest ribbons are stored at a temperature between 41° and 95°F (5° to 35°C) and humidity level between 45% and 85%.
- Avoid moisture and direct sunlight.
- Do not reuse ribbons.
- Use only ribbons designed for your model of Everest 400 printer.
- The ribbon carriers cannot be removed from the printer unless the system is powered on.

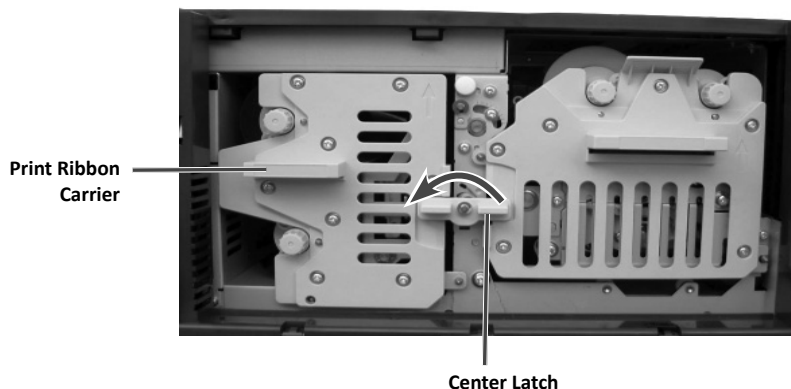
Remove the Print Ribbon

1. Open the **side cover** on the left side of the autoloader.
 - a. Lift the **printer cover latch** to open the printer cover.
 - b. Lower the **printer cover**.




2. Access the **print ribbon**.
 - a. Turn the **center latch** counterclockwise to unlock it.
 - b. Pull the **print ribbon carrier** all the way out of the printer.


! Important! The ribbon carriers cannot be removed from the printer unless the system is powered on.

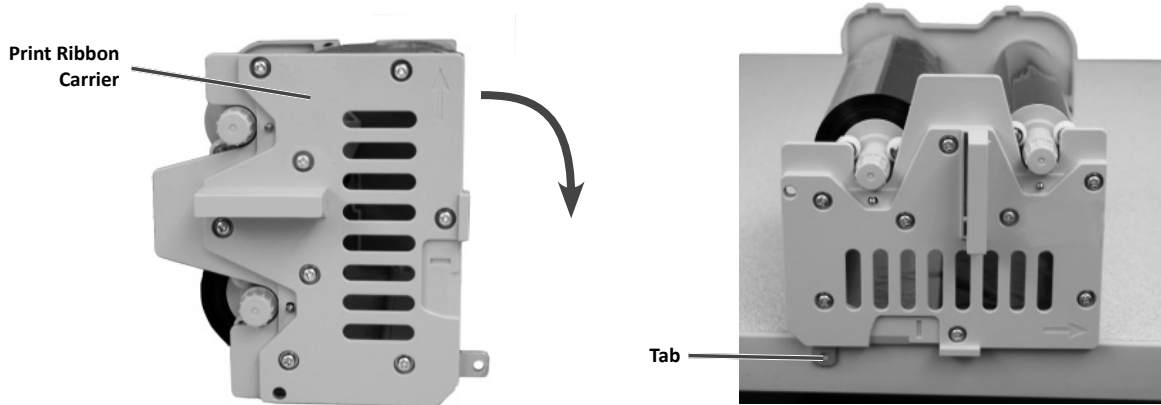


- c. Lay the **print ribbon carrier** on its back.

 **Tip:** Perform cleaning procedures while the print ribbon is removed. For more information refer to the *Clean the Everest 400 Printer* section on page 37.

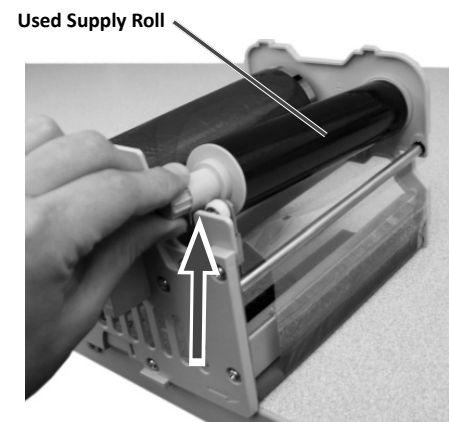
- d. Place the **print ribbon carrier** on a flat surface.

 **Tip:** To keep the print ribbon carrier in place while you remove the print ribbon, position the carrier so that the tab rests on the edge of a table or workspace.

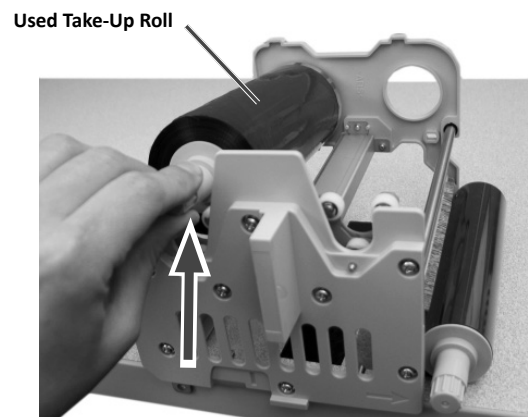


- 3. Remove the used **print ribbon** from the carrier.

- a. Lift up on the **supply roll** to remove it from the right side of the carrier
- b. Set the **supply roll** aside.



- c. Lift up on the **take-up roll** to remove it from the left side of the carrier.
- d. Set the **take-up roll** aside.
- e. Lift the **print ribbon carrier** off of the print ribbon and set it aside.
- f. Discard the **used print ribbon**.



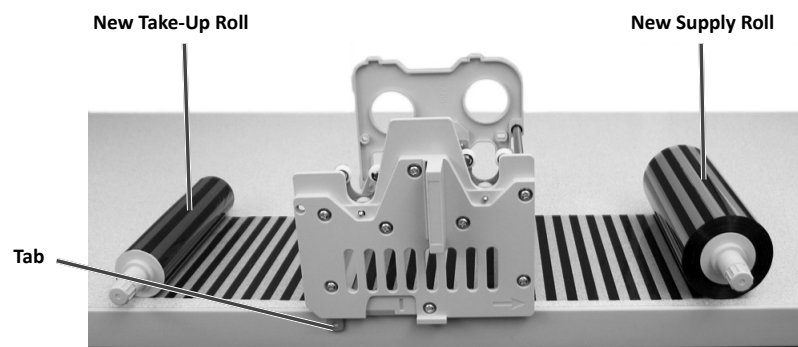
Install the Print Ribbon

1. Remove the new **print ribbon** from the packaging.
2. Install the **print ribbon** on the print ribbon carrier.

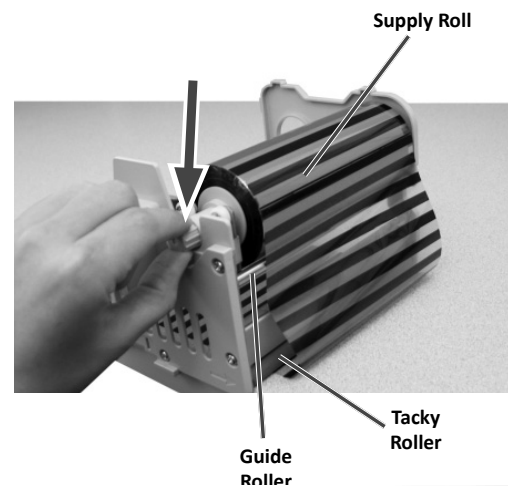
ⓘ **Important!** When you install the new print ribbon on the carrier, do not rotate the ribbon past the black cleaning bars. When the new ribbon is installed in the integrated Everest 400 printer, the ribbon advances and the bars clean the print head.

- a. With the supply roll on the right side, unwind several inches of the **new print ribbon**.
- b. Place the **print ribbon** on a clean, flat surface.
- c. Place the **print ribbon carrier** on top of the print ribbon.

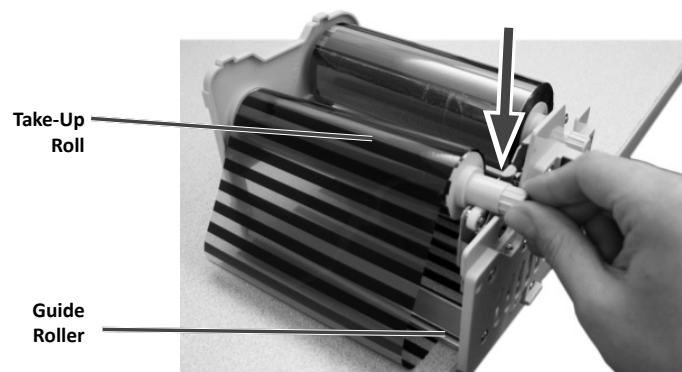
📖 **Tip:** To keep the print ribbon carrier in place while you install the print ribbon, position the carrier so that the tab rests on the edge of a table or workspace.




- d. Bring the **supply roll** up and around the tacky roller and guide rollers on the right side of the carrier.
- e. Press down to install the **supply roll**, as shown.




- f. Bring the **take-up roll** up and around the guide roller on the left side of the carrier
- g. Press down to install the **take-up roll**, as shown.



- h. Set the **print ribbon carrier** upright.

 **Tip:** When the print ribbon carrier is upright, the supply roll is at the top of the carrier.

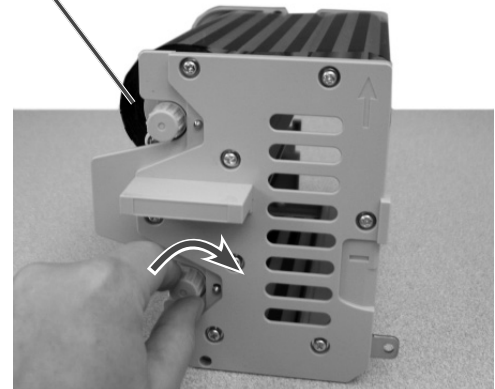
- i. Rotate the **take-up roll** clockwise to tighten the ribbon. Make sure that the ribbon is aligned and lies flat on the carrier.

 **Tip:** You may need to lift the ribbon up from the tacky roller to straighten it.

 **Notes:**


- Do not rotate the ribbon past the black cleaning bars at the front of the ribbon.
- If you installed a black (monochrome) ribbon, advance the ribbon so the ink portion of the ribbon is advanced to the take-up roll.

Supply Roll



3. Reassemble the **printer**.

- a. Slide the **print ribbon carrier** into the printer.
- b. Turn the **center latch** clockwise to lock it.
- c. Close the **printer cover**.

 **Note:** Ribbon color can vary from lot to lot. After you load the new ribbon, you may need to adjust the density settings in the printer driver. Refer to the *Adjust the Print Alignment and Color Density* section on page 25 for more information.

The printer is ready for use.

Change the Retransfer Ribbon

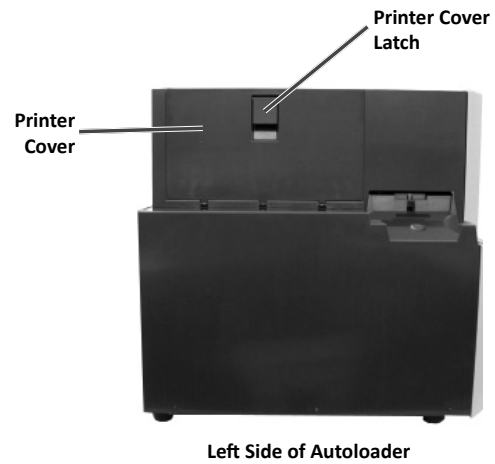
Before you change or first install the Everest retransfer ribbon, allow time for the new ribbon to become acclimated to the environment. Allow more time for greater temperature and humidity differences.

 **Important!**

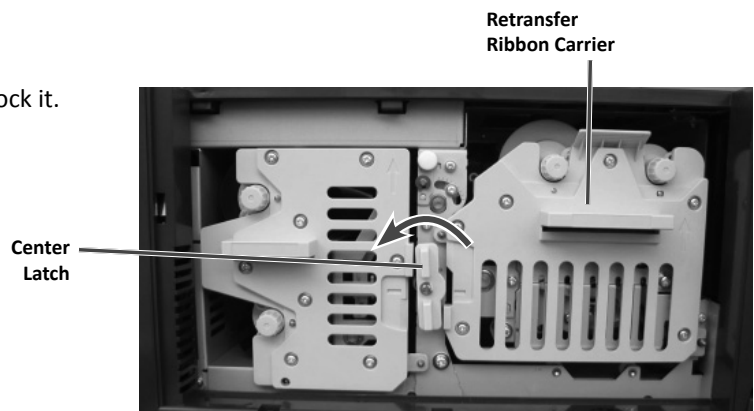
- Rimage supports only the use of Rimage brand ribbons in our printers. Printer issues that occur as a result of using ribbons by manufacturers other than Rimage are not included under your Rimage warranty or maintenance agreement.
- For optimum results, make sure that Everest ribbons are stored at a temperature between 41° and 95°F (5° to 35°C) and humidity level between 45% and 85%.
- Avoid moisture and direct sunlight.
- Do not reuse ribbons.
- Make sure you only use ribbons designed for your model of Everest 400 printer.
- The ribbon carriers cannot be removed from the printer unless the system is powered on.

Remove the Retransfer Ribbon

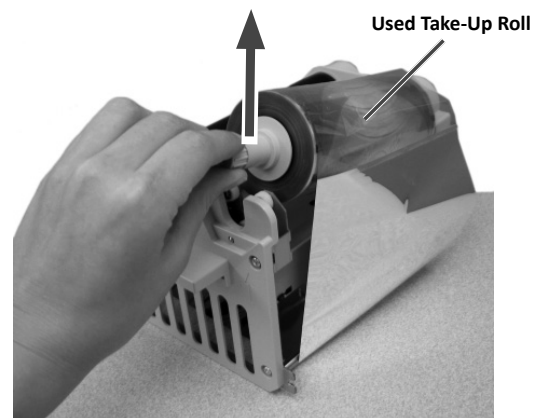
1. Open the **printer cover**.
 - a. Lift the **cover latch** to release the cover.
 - b. Lower the **printer cover**.



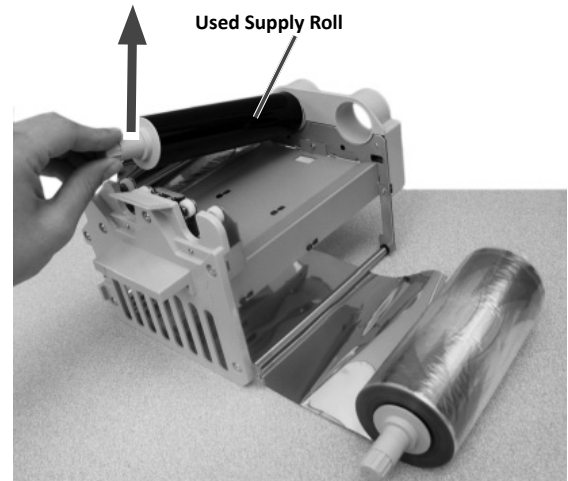
- c. Turn the **center latch** counterclockwise to unlock it.
- d. Pull the **retransfer ribbon carrier** all the way out of the printer.
 - ⓘ **Important!** The ribbon carriers cannot be removed from the printer unless the system is powered on.
- e. Lay the **retransfer ribbon carrier** on a flat surface.



2. Remove the used **retransfer ribbon**.
 - a. Lift up on the **take-up roll** to remove it from the right side of the carrier.
 - b. Set the **take-up roll** aside.

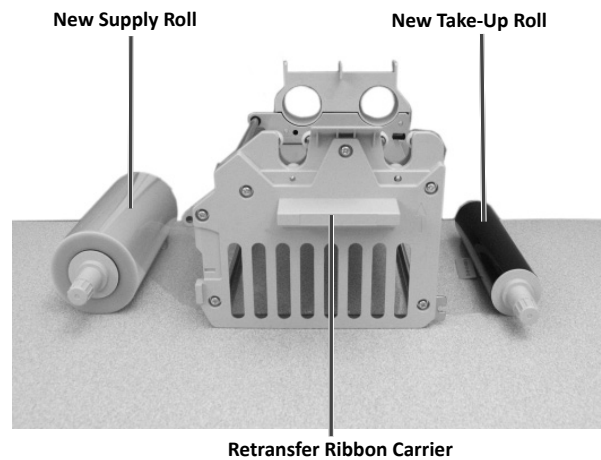


- c. Lift up on the **supply roll** to remove it from the left side of the carrier.
- d. Set the **supply roll** aside.
- e. Lift the **retransfer ribbon carrier** off of the used retransfer ribbon and set it aside.
- f. Discard the used **retransfer ribbon**.

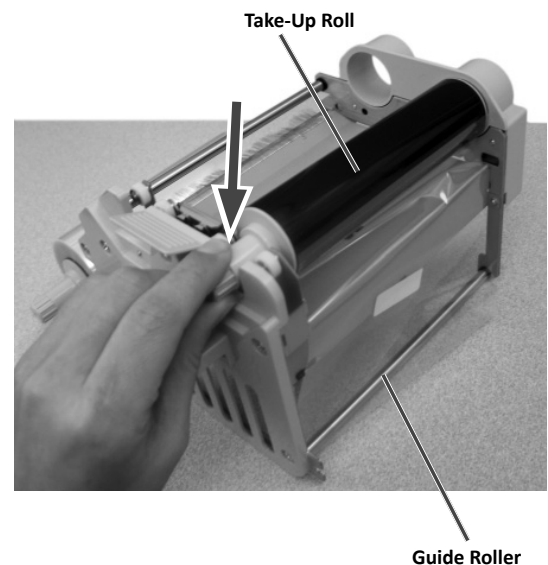


Install the Retransfer Ribbon


1. Remove the new **retransfer ribbon** from the packaging.
2. Position the **retransfer ribbon** on the retransfer ribbon carrier.
 - a. With the supply roll on the left side, unwind several inches of the **retransfer ribbon**.
 - b. Place the **retransfer ribbon** on a clean, flat surface.
 - c. Place the **retransfer ribbon carrier** on top of the retransfer ribbon.

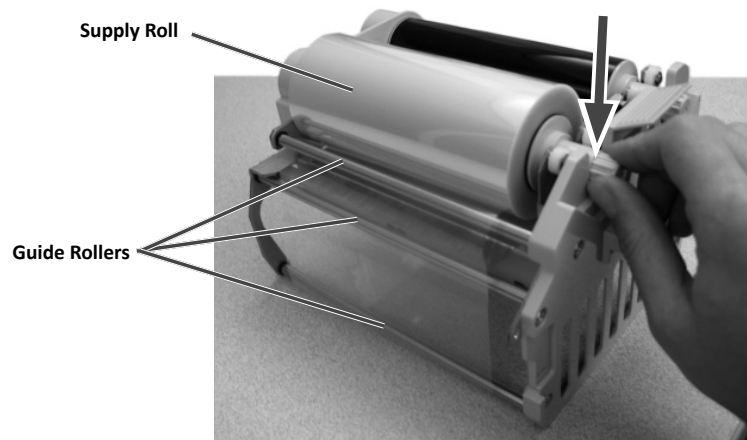


3. Install the **retransfer ribbon**.
 - a. Bring the **take-up roll** up and around the guide roller on the right side of the carrier.
 - b. Press down to install the **take-up roll**, as shown.



- c. Bring the **supply roll** up and around the guide rollers on the left side of the carrier.
- d. Press down to install the **supply roll**, as shown.

 **Note:** Make sure that the retransfer ribbon winds underneath the supply roll.



4. Rotate the **take-up roll** counterclockwise to tighten the retransfer ribbon.
5. Reassemble the **printer**.
 - a. Slide the **retransfer ribbon carrier** into the printer.
 - b. Turn the **center latch** clockwise to lock it.
 - c. Close the **printer cover**.

The printer is ready for use.



Take-Up Roll



Maintain the 3400 and 5400N

This section provides maintenance information for the 3400 and 5400N systems, including the integrated Everest 400 printer.

⚠ **Important!** For optimum performance, keep the 3400 and 5400N in a clean, dust-free environment.

Overview

Regular preventative maintenance of your system can help to ensure error-free recordings and clean printed labels. Maintenance also involves cleaning the system.

Cautionary Information

⚠ **Caution:** To avoid damaging the 3400 or 5400N during maintenance:

- Never use oils, silicone, or other lubricants on any part of the system.
- Use only non-abrasive cleaners to wipe down the surfaces of your autoloader.
- Never use cleaners to clean the embedded PC.
- Avoid pouring cleaners directly onto the autoloader. Instead, apply the cleaner a clean, lint-free cloth.
- Observe precautions for electrostatic-sensitive devices whenever you access the embedded PC.

Preventative Maintenance

You must perform routine maintenance to keep the system operating at optimum performance. The *Preventative Maintenance Schedule* on page 36 lists maintenance tasks, task frequency, and references to cleaning instructions in this user guide.

⚠ **Important!** Failure to follow the maintenance schedule may void your warranty.

📎 **Note:** Your system may require more frequent maintenance if used in a dusty area, such as a store or warehouse.

Before you begin:

1. Power off the **autoloader**.
2. If you have a 5400N, power off the **embedded PC**.
3. Disconnect the **power cord**.
4. Follow the *Preventative Maintenance Schedule* on page 36.

Preventative Maintenance Schedule

Task	Tools	Frequency
Autoloader Maintenance		
Wipe down the lift arm shaft and pay close attention to: <ul style="list-style-type: none"> The area around the base of the shaft The area just above the lift arm 	Lint-free cloth	Weekly
Wipe down all surfaces of the autoloader, including: <ul style="list-style-type: none"> Sides and top Door Output bin Carousel Top surface on the lift arm 	<ul style="list-style-type: none"> Lint-free cloth Non-abrasive, all-purpose cleaner 	Weekly
Remove dust and debris from the fan at the back of the autoloader.	Can of compressed air	Monthly
Remove dust and debris from the openings at the back of the autoloader.	Vacuum	Monthly
Remove dust and debris from the front and inside of the autoloader.	Can of compressed air	Monthly
Integrated Everest 400 Printer Maintenance		
Clean the print head. Refer to the <i>Clean the Print Head</i> section on page 37.	<ul style="list-style-type: none"> Sponge swabs with long handles (included in the Everest cleaning kit) 99% Isopropyl alcohol 	After 2000 discs (as needed) or at every ribbon change
Clean the tacky rollers. Refer to the <i>Clean the Tacky Rollers</i> section on page 38.	<ul style="list-style-type: none"> Sponge swabs with long handles (included in the Everest cleaning kit) 99% Isopropyl alcohol 	After 2000 discs or at every ribbon change

Clean the Everest 400 Printer

Regular cleaning helps to keep your Everest 400 printer in optimal operating condition.

Clean the Print Head

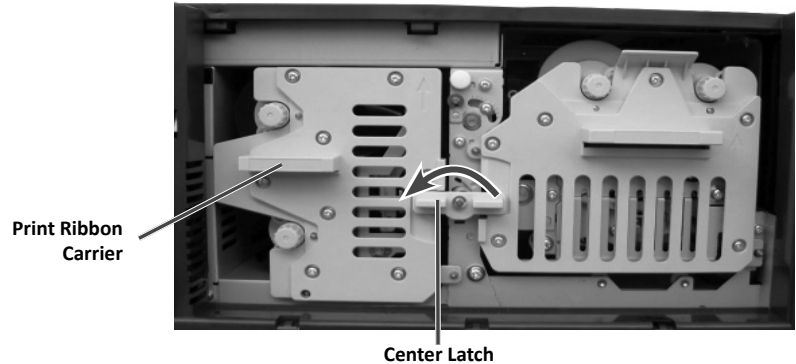
✂ Tools required:

- Sponge swabs with long handles (included in the Everest cleaning kit)
- 99% Isopropyl alcohol

1. Access the **print head**.

- Lift the **printer cover latch** to open the cover.
- Lower the **printer cover**.
- Turn the **center latch** counterclockwise to unlock it.
- Remove the **print ribbon carrier**.

⚠ **Important!** The ribbon carriers cannot be removed from the printer unless the system is powered on.



2. Clean the **print head**.

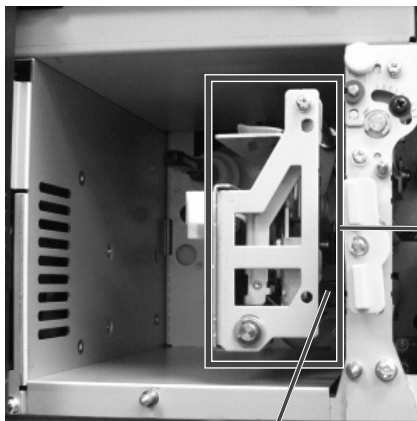
⚠ **Caution!** Do not scratch the print head. Remember the following tips:

- Always wipe from one end of the print head to the other without stopping in the middle.
- Only wipe the area indicated.

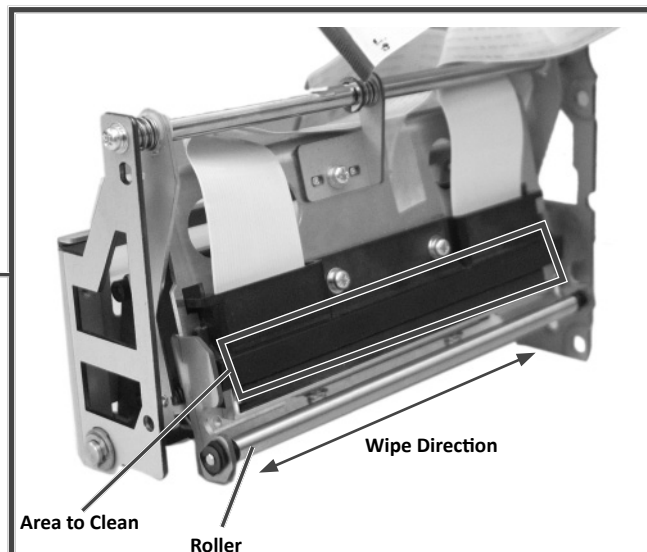
- Apply **isopropyl alcohol** to the **sponge swab**.
- Use the **sponge swab** to wipe across the **print head** from one end to the other in the direction shown below.

📎 **Note:** Do not remove the print head component from the inside of the printer. The component is shown outside of the printer for instructional purposes only.

- Repeat as needed until the **print head** is clean of dust and debris.
- Use the **sponge swab** to remove any waxy buildup from the **roller** below the print head.



Print Head



Area to Clean

Roller

Wipe Direction


3. Prepare the **printer** for use.
 - a. Install the **print ribbon carrier**.
 - b. Turn the **center latch** clockwise to lock it.
 - c. Close the **printer cover**. The system is ready for use.

Clean the Tacky Rollers

Tools required:

- Sponge swabs with long handles (included in the Everest cleaning kit)
- 99% Isopropyl alcohol

1. Remove the print ribbon carrier.
 - a. Lift the **printer cover latch** to open the cover.
 - b. Lower the **printer cover**.
 - c. Turn the **center latch** counterclockwise to unlock it.
 - d. Remove the **print ribbon carrier**.

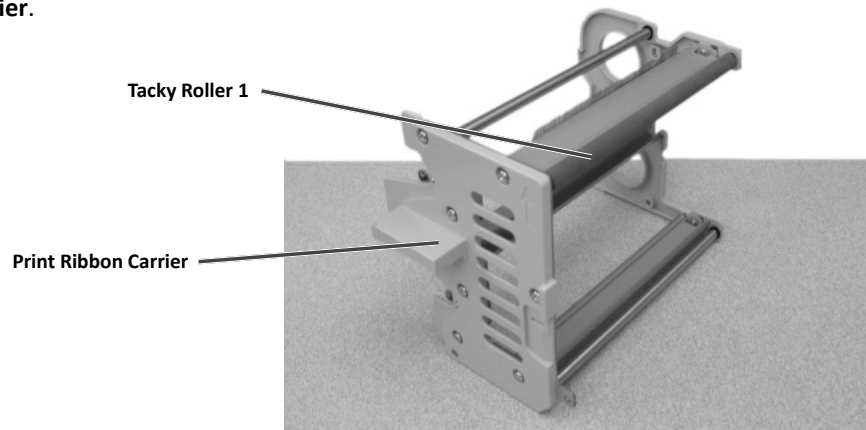
 **Important!** The ribbon carriers cannot be removed from the printer unless the system is powered on.

2. Remove the **print ribbon**. For specific instructions, refer to the *Change the Print Ribbon* procedure on page 27.



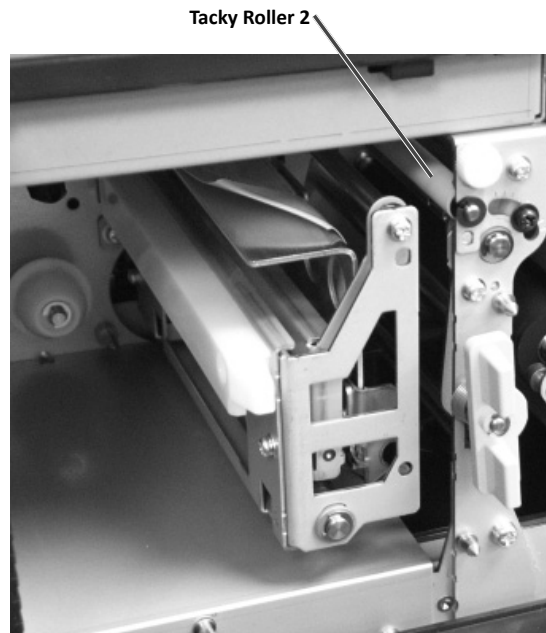
Print Ribbon Carrier Center Latch

3. Clean **tacky roller 1** on the print ribbon carrier.
 - a. Apply **isopropyl alcohol** to the **sponge swab**.
 - b. Use the **sponge swab** to clean **tacky roller 1**.
 - c. Use the **sponge swab** to remove any waxy buildup from other parts of the **print ribbon carrier**.



4. Inside the printer, use the sponge swab to wipe **tacky roller 2**.
5. Prepare the **printer** for use.
 - a. Install the **print ribbon** on the print ribbon carrier.
For specific instructions, refer to the *Change the Print Ribbon* procedure on page 27.
 - b. Install the **print ribbon carrier** in the printer.
 - c. Turn the **center latch** clockwise to lock it.
 - d. Close the **printer cover**.

The system is ready for use.



Operate Gemini Utilities

The Rimage software includes an application called Gemini Utilities, which is used to change the display name of the system and to enable the beeper. Gemini Utilities is only available on the Professional 5400N and the Professional 3400 running Rimage Network Software Suite.

Tip: To access Gemini Utilities for the 5400N, use the remote desktop connection from a networked PC, or connect a monitor, keyboard, and mouse to the 5400N.

Note: Unless otherwise indicated, all Windows navigation statements are Windows XP paths. Other Windows operating system navigation may differ slightly.

Start Gemini Utilities

1. Close all open software applications and stop all Rimage Services.
 Note: Refer to your Rimage software online help for additional information.
2. From the Windows **Start** menu select: **All Programs > Rimage > Utilities > Gemini Utilities**. Gemini Utilities opens.
 Note: When the desired tasks are complete, start the Rimage Services.

Change the Autoloader Display Name

Use Gemini Utilities to enter the name displayed on the operator panel.

Note: Changing the display name does not change the name of the system on a network or workgroup. To change the name on a network or workgroup, refer to your setup and installation instructions or the *Rimage Advance Setup (Networking) Guide*.

1. Select the **Override Name** checkbox.
2. Clear the **Use Computer Name** checkbox.
3. In the **Display Name** field, enter the new name.
4. Select **Set Params** to set the name.

Enable the Beeper

You can change the number of beeps that occur when the unit is out of media or when there is an error.

1. In the **# of Beeps on Fault** field, select the number of beeps you wish to hear when there is an error.

Tip: To disable the beeper, set the number to zero.

2. Select **Set Params** to set the number of beeps.

