

RDXRPN100

Series



Installation and Hardware

Reference Manual

Version 0908



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

For Users in the United States: This product is intended to be supplied by a UL listed Direct Plug-In Power Supply marked "Class 2" or a UL listed ITE Power Supply marked "LPS" with output rated 12VDC, 4.5A or higher. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

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

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

CAUTION!

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THE UNIT TO RAIN OR MOISTURE. TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE EXTERIOR PANELS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO

QUALIFIED SERVICE PERSONNEL. OPERATE THE UNIT WITH ONLY THE PROPER ELECTRICAL SPECIFICATIONS AS LABELED ON THE PRINTER AND AC ADAPTER.

CAUTION!

**THIS PRODUCT CONTAINS A LASER DIODE OF A HIGHER CLASS THAN 1. TO ENSURE CONTINUED SAFETY, DO NOT REMOVE ANY COVERS OR ATTEMPT TO GAIN ACCESS TO THE INSIDE OF THIS PRODUCT. REFER ALL SERVICING TO QUALIFIED PERSONNEL. THE FOLLOWING LABEL APPEARS INSIDE YOUR UNIT:
CLASS 1 LASER PRODUCT LASER KLASSE 1**

CAUTION!

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION.

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Chapter 1

Getting Started

1.0 Product Overview and Preparation

1.0.1 Product Introduction

RDXRPN100 is the perfect all-in-one solution for producing professional looking CD, DVD, and Blu-ray (if equipped) discs in a networked environment. A wide variety of disc formats are supported, including audio CDs, DVD video, data discs and more. Operation is simple and completely automatic once a job has been submitted.

To begin using your RDXRPN100, please read this manual carefully. This Operator's Manual is a complete step-by-step guide to creating discs and administering your new RDXRPN100.

A separate in software Help file is provided that explains the operation of the client software. This is accessible via the software's help menu and the ? icon.



NOTE: Note on Terms and Convention

From this point forward, the following terms and conventions will apply:

The RDXRPN100 will be abbreviated simply as the "unit" or RDXRPN100. Optical discs, which can include many different types of discs including CD-Rs, CD-RWs, DVD+/-Rs Blu-ray and more are all referred to as discs. Please note that in order to copy and record Blu-ray discs, you will need to have purchased the Blu-ray version of the unit.

1.0.2 Choosing a Good Location

Place the unit in a location with adequate air circulation to prevent internal heat build up.

Do not place the RDXRPN100 near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, and mechanical vibration or shock panels. Separately-purchased rackmount rails are available for installation into 19" standard racks or cabinets.

Please acquaint yourself with the locations of individual components before proceeding with hardware installation.

1.0.3 Unpacking and Inspection

NOTE: DO NOT POWER ON THE RDXRPN100 UNTIL TOLD TO DO SO. PROCESSES ARE REQUIRED TO PROPERLY REMOVE SHIPPING COMPONENTS AS WELL AS INSTALLING OPERATIONAL COMPONENTS. FAILURE TO FOLLOW THESE PROCEDURES MAY VOID YOUR WARRANTY AND MAKE THE UNIT INOPERABLE.

The following items are inside the box:

RDXRPN100 Network Publisher

2 Gray Plastic Input and Output Bins (Located inside cardboard insert)

Power Cord

One Three-Color (CMY) Ink Cartridge (Located inside cardboard insert)

One Monochrome Black Ink Cartridge (Located inside cardboard insert)

Client Installation Disc

2 DVD ESATA I/O cables

USB Interface Cable

7' Ethernet Cable

Warranty Card

2 Keys

The Installation and Hardware Guide and Other Software Guides or Printed Information

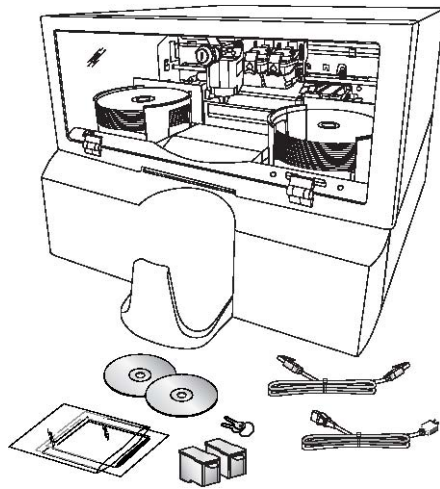


Figure 103a

Remove all packing tape from the unit. Open the front cover with the key provided and remove the cardboard insert by pulling on the right side first.

The cardboard insert (pictured below) prevents the cartridge carrier from damaging movement during shipment.

Save this cardboard insert, shipping box, and packing materials.

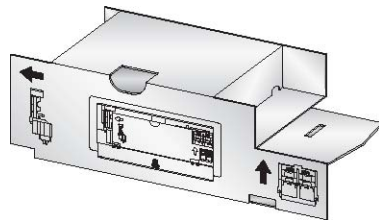
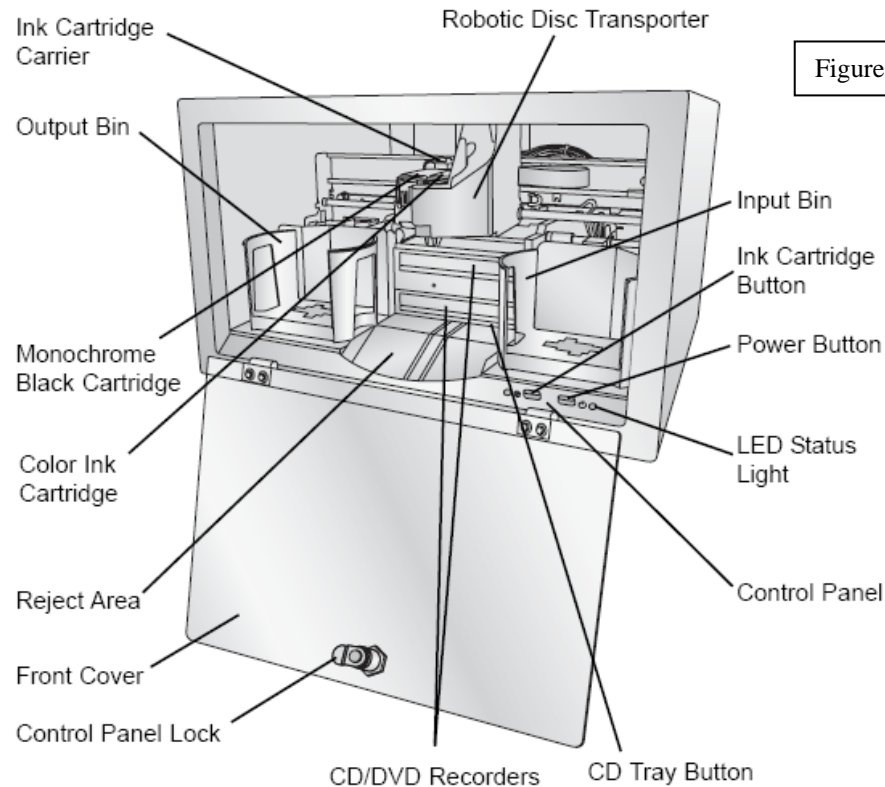


Figure 103b

DO NOT POWER UP THE RDXRPN100 UNTIL TOLD TO DO SO!! IMPROPER POWER SEQUENCING MAY MAKE THE UNIT INOPERABLE!!

1.0.4 Identifying the Parts

This illustration shows the RDXRPN100 and its components.



The **Robotic Disc Transporter** moves discs from the left or right Bin, to a CD/DVD Recorder, to the printer, and finally to the Output Bin.

The **CD/DVD Recorder** is automatically loaded and unloaded by the units' Robotic Disc Transporter.

The **Recorder Tray Button** manually opens or closes the Recorder Tray. In normal operation, the in/out movement of the Recorder Tray is controlled automatically and this button is not used.

The **Left and Right Bins** are situated under the top cover of the unit. Each bin can hold up to 50 discs. You can designate the type of disc in each bin with the software you will use.

The **Output bin** is located on the front of the unit. The output bin holds up to 50 discs.

The **Front Cover** is a durable plastic cover that will protect the unit from dust and interference.

The **Cover Lock** allows you to lock the unit to prevent access to the blank discs and cartridges.

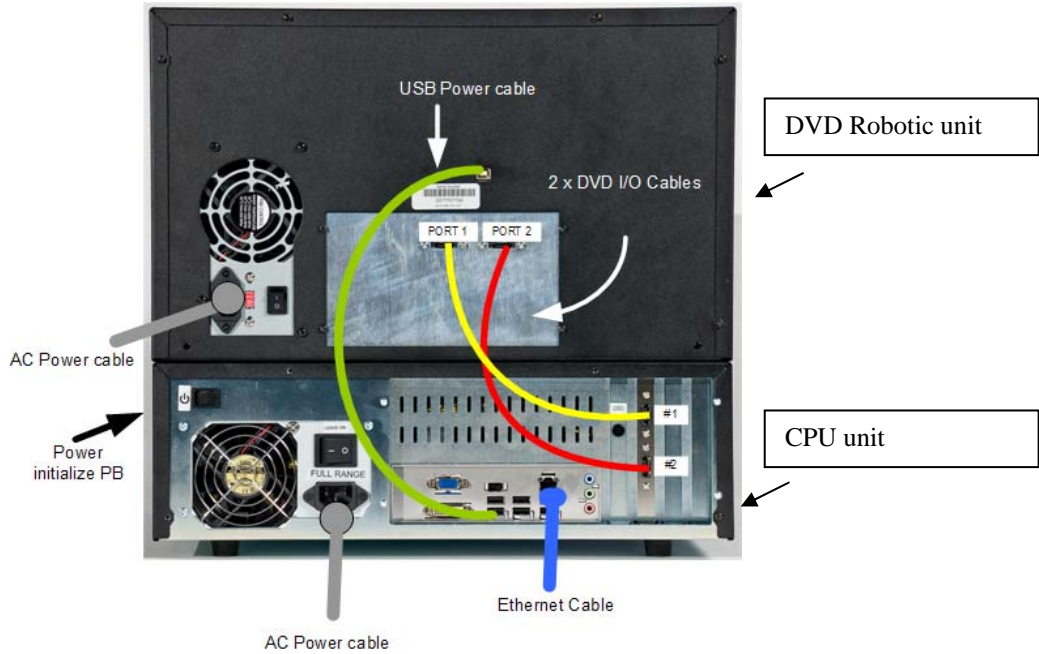
The **Ink Cartridge Carriers** hold the color and black ink cartridges.

The **LCD Control Panel** displays errors and warnings, allows you to perform administrative functions and run archived jobs.

The **CPU Unit** is a computer inside the bottom portion of the unit and runs all the software necessary to publish discs.

Rear Panel

Figure 104b



CAUTION!

The power on sequence is very important since the units need to calibrate and communicate to each other their status. Do not power on the RDXRPN100 until told to do so, power on procedures must be precisely followed for proper operation of the RDXRPN100

The **Power Input Ports**, one on the lower CPU unit and one on the Robotic unit connects to the included power cables. The internal power supply is a switching 100V~240V power supply. Cables are supplied and must be connected by you.

The **Power Switches**, one on the CPU unit and one on the Robotic unit, shuts off all power to the unit.

The **Power Initialize Push Button** momentary switch activates the boot process of the CPU unit.

Please Note: Connect the power cables but do not power on the unit. Install the ink cartridges and connect the cables before powering the unit. You will be told when to power on the RDXRPN100.

The **Ethernet Port** connects with the cable included to your network. This cable must be connected by you.

Please Note: The equipment's Ethernet connection is intended for indoor connection only. Do not connect to an outdoor cable system.

The **USB Power Connection provides power to the DVD robotics by a cable** is included with the unit and must be connected by you.

The 2 **DVD Drives Interface to the CPU by ESATA cables and** are included with the unit and must be connected by you. Note the proper connectivity based on cable number one (1) connects port 1 to ESATA#1 and cable number two (2) connects port 2 to ESATA #2.

1.0.5 Installing Ink Cartridges

Without power, the Ink Cartridge carriers are in the far right and left loading area and available to inserting Ink Cartridges.

Using the key provided, open the front cover of the Robotic DVD unit.

Open the ink cartridge covers.

Remove the ink cartridge from its packaging.

Slowly remove the tape covering the cartridge's print head, being careful to avoid damaging the barcode label on the underside of the cartridge.

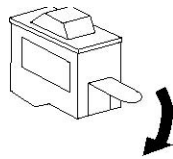


Figure 105a

DO NOT TOUCH THE COPPER AREA!

Insert the ink cartridges into the carrier, copper end first and snap the cartridge cover in place. Insert the **color in the left holder, monochrome black in the right cartridge holder**.

Close and lock the unit's front cover.

Note: The unit will not function unless the front cover is closed and locked!

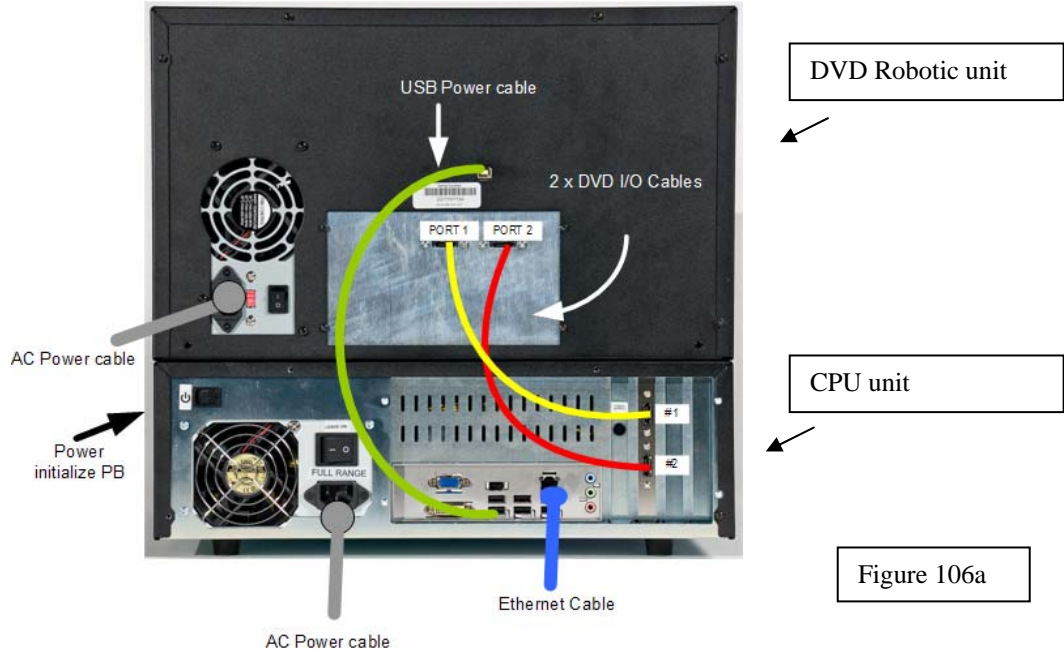
1.0.6 Installing Cables

Locate and install the USB Power cable from any CPU unit USB port on the rear of the lower unit to the upper DVD Robotic unit.

Locate and install the 2 DVD I/O cables on the rear of the lower systems from the ESATA card up to the DVD I/O cable connections on the rear of the upper unit. Note the proper connectivity based on

cable number one (1) connects port 1 to ESATA#1 and cable number two (2) connects port 2 to ESATA #2.

Locate the ethernet cable and connect it between the CPU unit ethernet connector and your network.



Locate the power cords supplied with the unit. Place one end of the power cord into the plug on the back of the CPU and Robotic unit and the other ends into a surge protected outlet.

1.0.7 Applying Power



CAUTION!

The power on sequence is very important since the robotics and CPU units need to calibrate and communicate their status. Follow these power on procedures precisely for proper operation of the RDXRPN100

1. First turn on the AC switch on the rear of the upper Robotic unit. The library will start going through internal routines to prepare the robotics for operation.
2. Wait 60 Seconds.
3. Then turn on the AC switch on the rear of the lower unit and press the power initialize toggle button [FIG 106A] just above the fan on the rear of the lower unit. The LCD panel will illuminate and go through a setup routine.

Chapter 2

Hardware Installation

2.0 Introduction

This section will describe the step-by-step process of setting up your unit necessary to start producing discs.

2.0.1 Hardware Setup

Step 1: Loading Media (Discs)

NOTE: Your Printer can print directly onto virtually any brand of printable-surface CD/DVD media. However, different brands of discs have different printable coatings. Because of this, you may need to adjust the printer driver settings to accommodate your specific brand of CD/DVD media.

For maximum print quality, use CD/DVD media

Refer to the following steps when loading discs in to the unit:

Using the key provided, open the front cover of the unit.

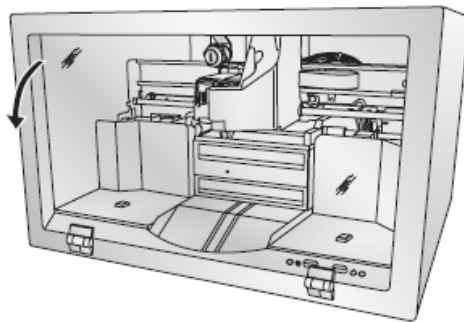


Figure 201a

The Printer will automatically position the cartridge carrier and Robotic Disc Transporter to the center position allowing for easy access to the bins.

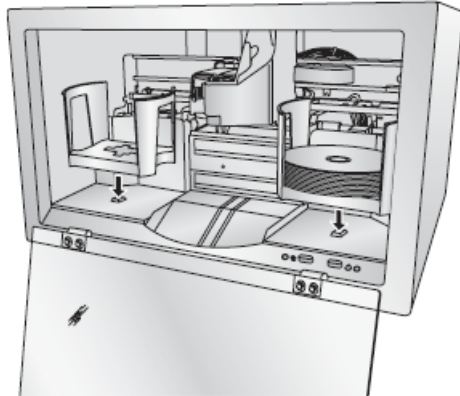


Figure 201b

Load the right and left bins with CDs, DVDs, DVD-DL or a combination. (Each bin can hold only one type of media) Note the type of media that you are loading in each bin. You can add this information to the description of the unit using the Administrator Utility. If you are mixing media types you must enable **bin selection** using the Administrator Utility. See the users manual for more information about the Administrator Utility.

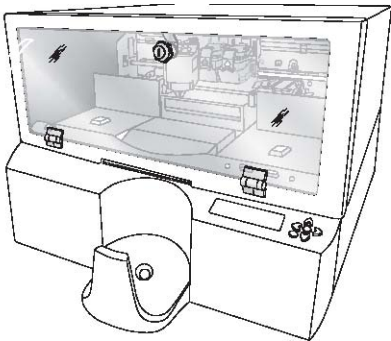


Figure 201c

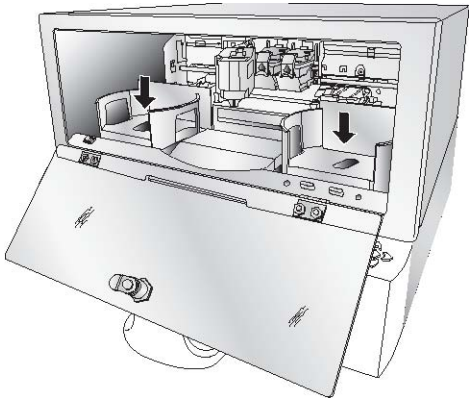


Figure 201d

Step 2: Verifying Ethernet Cable Connectivity

Connect the unit to the 10/100 or Gigabit Ethernet port with the provided ethernet cable. The RDXRPN100 will appear on your network as RDXRPN100-xxxxx where xxxxx is a number between 00001 and 99999.

2.0.2 Network Configuration / Setup


The RDXRPN100 has the **Guest account** enabled and the IP address has been set to DHCP by default. This allows for easy and immediate use of the unit. However, this may not be the most secure practice and may violate some network administrator security policies. Refer to the Software addendum for procedures on how to get Administration privileges.

Note: If you add this unit to your network domain it is highly recommended that you disable the guest account on the RDXRPN100.

To disable the Guest account follow this procedure:

1. From any computer that can access the RDXRPN100, open a remote desktop connection. Go to Start - All Programs - Remote Desktop Connection.

Note: You may also hook up a monitor and keyboard to the RDXRPN100 to gain access. If this is the case, skip to step 4.

2. In the window that appears type the name of the RDXRPN100. This information can most easily be found on the RDXRPN100 itself by pressing the  button at the main menu of the LCD Control Panel. The name will be in the following format: RDXRPN100-xxxxx where xxxxx equals a number between 0001 and 99999.

3. Click **Connect**.

4. Connect a USB keyboard, Mouse and Monitor. You will be prompted for a username and password. Enter the following to access the **Administrator** account:

Username: RDXRPN100Admin

Password: NetworkDP1

You now have full access to the RDXRPN100 computer

5. Go to User Accounts
6. Click **RDXRPN100Guest**
7. Select turn off guest account.

You will now need to add the RDXRPN100 to a workgroup or to a domain so that users will be able to send jobs to it. Workgroups are typically found on smaller networks. Domains are found on medium to large networks. If you don't know what either of these are and you don't have a network administrator then you probably will want to add the RDXRPN100 to a workgroup. Follow the instructions below to add the RDXRPN100 to a work group.

1. Right click on the My Computer Icon on your desktop
2. Click on the **Computer Name** tab.
3. In the Workgroup box type the name of the existing workgroup. To find the name of the workgroup, perform this same three step procedure on an existing computer. The workgroup name should already be populated. Use this same name for the RDXRPN100.

If you have a domain, ask your network administrator to add the RDXRPN100 to the domain using the same procedure they would use to add any other new computer.

Your RDXRPN100 is now operational and is ready for you to create Discs. Refer to the GUI based disc burning software that has come with your unit. Contact your sale representative for more information.

Chapter 3

Troubleshooting

If you are experiencing any difficulties setting up or running this equipment, please contact us for assistance.

800 328 8147
Rorke Data Technical Support

Please do not return this product without an RMA .
Customer and technical support representatives are available Monday through Friday, 8 AM to 5 PM CDT
Rorke also offers extended warranties and other support options.

Additional support options are available free of charge:

- **Rorke Data Website:** www.rorke.com
- **User's manual:** included on manual CD
- **Product consumable supplies:** sales@rorke.com
- **Email tech support:** techsupport@rorke.com

For basic troubleshooting and repairs see the following section

3.0 Troubleshooting

The RDXRPN100 is designed to operate for extended periods of time with very little attention. In fact, no regular maintenance is recommended other than cleaning the outside case.

NOTE: Do NOT attempt to oil or grease the RDXRPN100's Robotic Arm shaft or other components. You will likely cause more harm than good! Any moving parts are designed to operate for the life of the machine with no additional lubrication required.

3.0.1 CLEANING THE RDXRPN100

Use a clean, lint-free rag with a small amount of ammonia window cleaner to clean the RDXRPN100's outside case and trays. This type of cleaner is very effective on inks that may accumulate on the printer tray. Stronger cleaning solutions are NOT recommended because they may damage the paint and plastic materials from which the parts are manufactured.

Always disconnect your RDXRPN100's power cords before cleaning. Resume operation only after the surfaces are completely dry.



CAUTION!

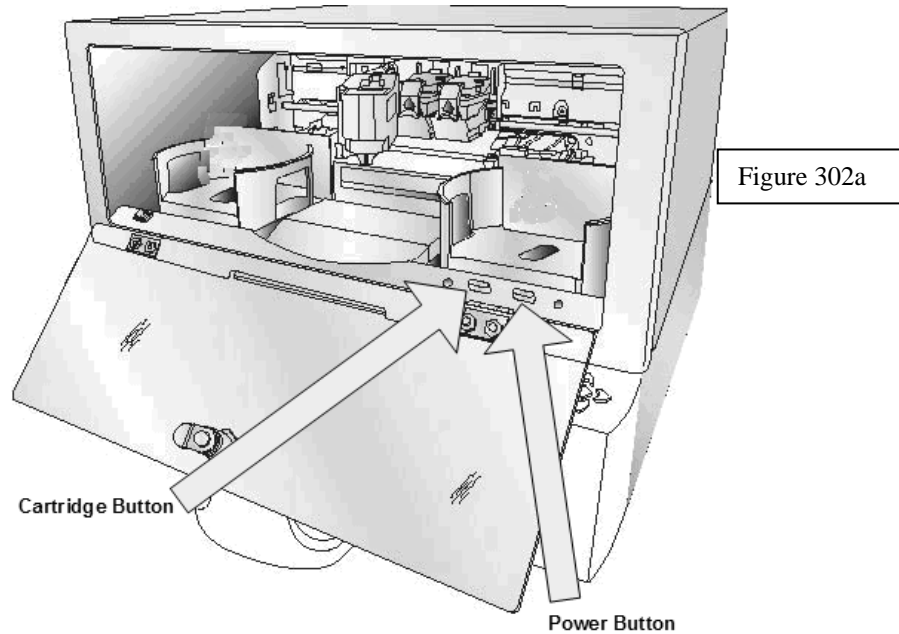
Carefully follow the installation instructions described in this manual to prevent any difficulties and damages to your system.

3.0.2 PERFORMING A ROBOTIC SELF-TEST

To ensure that everything is working properly, a Self-Test feature is built in to your RDXRPN100. In this mode, the Robotic Disc Transporter will go through the motions of picking and placing a disc to ensure proper working order. This test may be performed without connecting the RDXRPN100 to the PC.

Perform the test by doing the following steps:

- Load some discs into the Input Bin
- The cover must be closed for this operation to complete. However, in order to access the buttons you must open the cover. To get around this problem simulate closing the cover by activating the cover lock sensor. You may do this by putting an object such as a folded piece of paper in the slot where the lock would normally be located.
- With the RDXRPN100 turned on, press the Cartridge Button see arrow in diagram below.



- While holding the Cartridge Button, press the Power Button until the robotics start to move.
- Release both buttons
- To stop the test, wait until the disc has moved to the Output Bin and press the Power Button.


3.0.3 CLEANING THE INK CARTRIDGES

It may be necessary to clean the ink cartridge nozzles if you notice reduced print quality, or if you suspect an cartridge nozzle has become slightly dried out or clogged. If you are having print quality problems, follow the steps below:

1. Remove the print cartridges.
2. Moisten a lint-free cloth with water.
3. Hold the cloth against the nozzles for three seconds. This will “wick” some additional ink onto the damp cloth.
4. Wipe in the direction shown.
5. Repeat the process.

3.0.4 REPLACING OLD INK CARTRIDGES

Replacement Ink Cartridges are available from your OEM, reseller, or Rorke Data 800 328 8147

Using the LCD Control Panel access the Main Menu of the RDXRPN100 by pressing the  button. Choose "Install Cartridges"

Using the key provided, open the front cover of the unit. The cartridge carrier will move to the load position.

Open the ink cartridge covers.

Remove the ink cartridge from its packaging.

Slowly remove the tape covering the cartridge's print head, being careful to avoid damaging the barcode label on the underside of the cartridge.

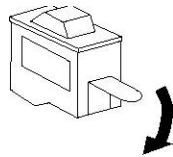


Figure 304a

DO NOT TOUCH THE COPPER AREA!

Insert the ink cartridges into the carrier, copper end first and snap the cartridge cover in place. Insert the color in the left holder, monochrome black in the right cartridge holder.

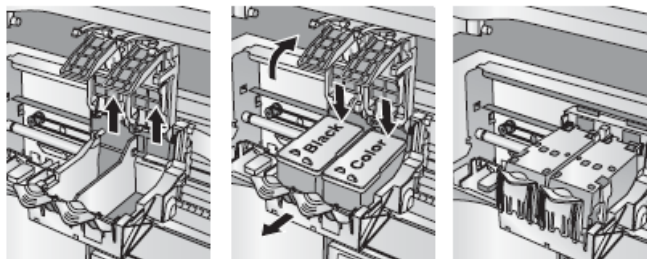


Figure 304b

Close and lock the unit's front cover.

Note: The unit will not function unless the front cover is closed and locked! Both LED lights inside the cover will be lit when the cover is locked and closed.

Finally, you must tell the RDXRPN100 which cartridge was installed by selecting it using the LCD Control Panel. Choose new color, new black, new color and black or used cartridge. Choose used cartridge if you have installed the same cartridges. Choosing used cartridge will retain the current ink level values. Choosing new cartridge will reset the appropriate ink level(s) to 100%.

3.0.5 CLEARING A MEDIA JAM

If a disc should become jammed inside the printing area of the RDXRPN100, with the lid closed press the Cartridge Button. This will eject the Printer Tray. Then open the lid. The Cartridge Carrier will move to the center position automatically.

WAIT FOR THE CARTRIDGE CARRIER TO STOP MOVING!

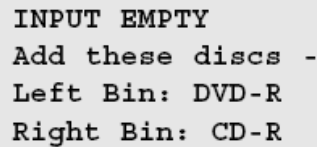
Then carefully move the cartridge carrier assembly to the left to gain access to the printer tray. The cover must be closed for this operation to complete. However, in order to access the buttons you must open the cover. To get around this problem simulate closing the cover by activating the cover lock sensor. You may do this by putting an object such as a folded piece of paper in the slot where the lock would normally be located.

3.0.6 LCD ERROR MESSAGES

There are several error messages or warnings that will appear on the LCD Display. Below is a descriptions of each and their possible solutions.

Input Empty

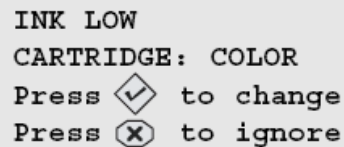
The left or right bin is out of discs. Add the discs specified in the control panel. The LCD will only show you which discs to load if **bin selection** has been enabled. (See 4A for more information on bin selection). If bin selection is disabled, the LCD will display a generic input empty error. In this case it is up to the user to know which type of media to load into the unit.



```
INPUT EMPTY
Add these discs -
Left Bin: DVD-R
Right Bin: CD-R
```

Ink Low

When Ink levels reach approximately 10% a warning will be displayed. You can either change the cartridge or ignore the warning and continue printing. If you choose to ignore, it is possible that discs will be printed with insufficient ink which will cause poor print quality.



```
INK LOW
CARTRIDGE: COLOR
Press [checkmark icon] to change
Press [X icon] to ignore
```

3.0.7 TRANSPORTING THE RDXRPN100

When it has been determined by Tech support that the RDXRPN100 needs to be transported to a repair facility, an RMA will be processed and the unit must be properly packaged in the original packaging materials. If these materials are not available, contact the returns dept at 800 328 8147 to have proper packaging material sent to you.

Once the proper packaging is available the following steps must be followed.

To prevent damage to the RDXRPN100s robotic arm during shipment, it is important to properly secure it.

To prepare for transport, do the following:

1. Switch on power to both robotic and cpu units and press the power initialize push button. A normal power up routine occurs.
2. Using the front key open the front cover, wait for the robotics and print cartridges to move to the proper positions and remove the media and media bins. Store the bins in the cardboard spacer
3. Switch off power to the unit.
4. Remove all data cables on the Robotic and CPU units and place for shipment. Leave AC connected.
5. Press and hold the Cartridge Button [the left button of the two located just inside the door area in front of the right bin]. While continuing to hold the Cartridge Button, switch on power to the unit.

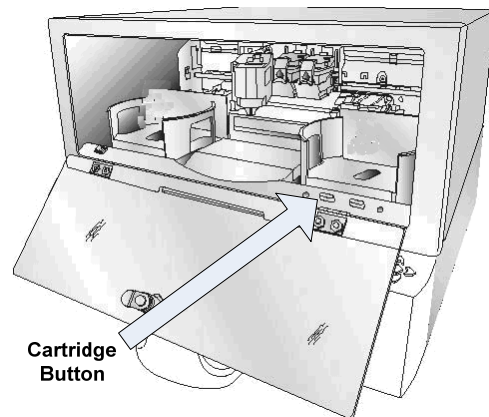


Fig 307a

6. Continue to hold the Cartridge Button. After several seconds, the robotics will undock and the arm will lower. Power will shut off automatically once the robotics is in transport position. Remove the print cartridges and discard.
7. Remove the AC cables and verify that all cables are disconnected.

- Using the cardboard spacer that was shipped with the unit, place the spacer inside the unit and close the cover.

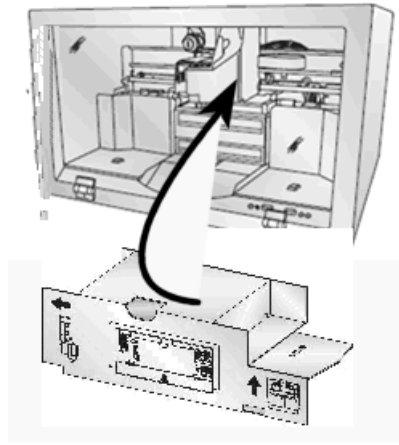


Fig 307b....

With media bins removed and placed in cardboard spacer and the print cartridges and robotics in the proper position, slide cardboard spacer into the robotic unit. Close and lock door.

NOTE : Unit is quite heavy and 2 people may be needed to lift the unit.

Place the unit in the plastic bag and carefully place in the shipping box. Insert the cables and RMA paperwork inside the box with the unit and ship to:

Rorke Data RMA Dept

7626 Golden Triangle drive

Eden Prairie , MN 55344

952 829 0300

Technical Specifications

Model	Optical Disc RDRDXRPN100
Processor	Intel Dual Core 1.33 Ghz
	Memory 2GB
	Dual Hard Drive 250 GB SATA
Configurations	CD-R Publisher
	DVD+/-R Publisher
Printing Method	Ink-Jet
Printing Resolution	4800 x 1200 dpi, 2400 x 1200 dpi, 1200 x 1200 dpi, 600 x 600 dpi
Ink Types	Dual Cartridges: One 3-color (CMY) cartridge, and one Black Monochrome (K)
Media Types	Ink-Jet Printable Surface CD-R, CD-RW, DVD-R, DVD RAM, DVD+R, Dual Layer DVD+R. BDR, BDR-DL (Must have a Blu-ray drive to record to BDR formats)
Maximum print width	4.724" (120mm)
PC System	Intel™ Processor III/IV 750 MHz or higher, 256MB RAM minimum, 512 MB recommended, available PCI slot, one free USB 2.0 port
Disc Capacity	50 disc input, 50 disc output (default) 100 disc input, 100 disc output
Recordable Formats	CD-R: CD-Audio (CD-DA), CD-ROM, CD-I, Video-CD, MP3 to CD-Audio (on the fly, no hard drive overhead required)
Operating Systems	Windows XP
Drive Interface	SATA and USB 2.0 port
Network Interface	Gigabit Ethernet
Operating Temperature	60-80F (15.5 - 26.5C)
Power Requirement	100-240VAC, 50/60Hz, 1.5A
Weight	49 lbs. (22.23 kg)
Certifications Emissions:	FCC Class A, CE
	Safety UL, UL-C, CE
Warranty	One year return-to-depot