

**TALLY**

**User Guide**

**Xpress T8016 Color Laser  
Printer**

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**May 2004**

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## ***Printer Overview***

# 1

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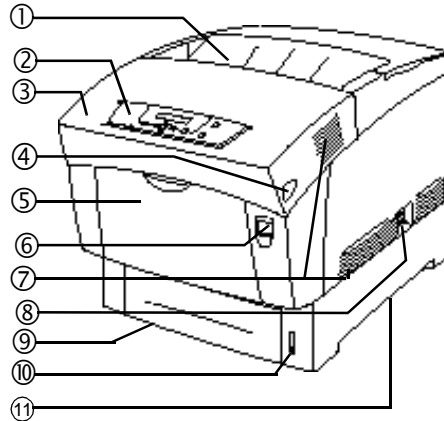
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## Printer Parts

The following drawings illustrate the parts of your printer referred to throughout this guide, so please take some time to become familiar with them.

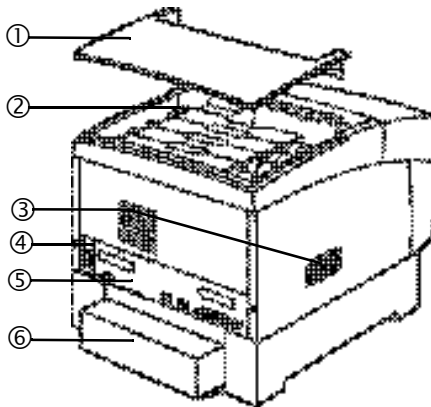
### Front View

- 1—Top cover/face-down output tray
- 2—Control panel and message window
- 3—Front cover
- 4—Cover Button B
- 5—Multipurpose tray (shown closed)
- 6—Cover Button A
- 7—Ventillation grilles
- 8—Power switch
- 9—Upper media tray
- 10—Media level guide
- 11—Carrying grips (both sides)



### Rear View

- 1—Top cover
- 2—Toner cartridges
- 3—Ventillation grilles
- 4—AC power connection
- 5—Interface panel
- 6—Media tray cover

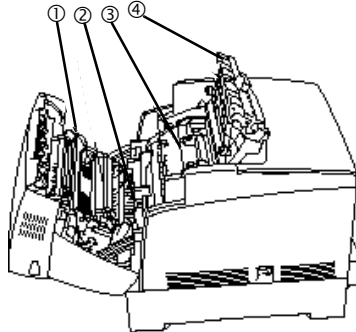




## Top Internal View

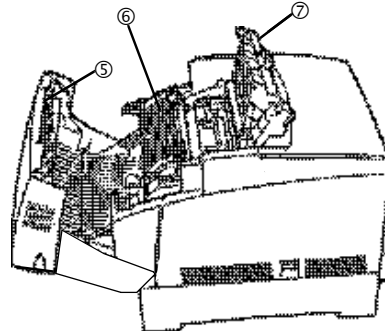
### Button A

- 1—Transfer unit
- 2—Registration rollers
- 3—Imaging unit
- 4—Imaging unit cover



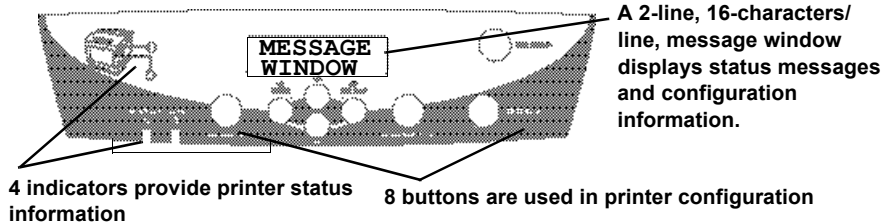
### Button B

- 5—Duplexer rotator
- 6—Fuser unit
- 7—Imaging unit cover



## About the Control Panel

The control panel, located on the top of the printer, allows you to direct the printer's operation. In addition, it displays the current status of the printer, including any condition that needs your attention.








Status messages are listed in the *Maintenance Guide* and the *User's Guide*.

## Selecting a Message Window Language

When you receive your printer, the message window language is set to English. However, status messages and configuration menus can be displayed in the message window in Czech, Danish, Dutch, English, French, German, Italian, Japanese (Katakana), Portuguese, and Spanish. Chinese (Simplified), Chinese (Traditional), and Korean (Hangul), don't display in the control panel message window, but choosing them makes CrownView display in the correct language.

Selecting a language in the control panel also allows media size selections to be localized.





If you want to change the message window language, use the following control panel sequence (slightly dependent upon the installed options):

Press Key	(Until) Display Reads
Online	IDLE (and online LED is off)
Menu	OPERATOR CONTROL
Next (  )	ADMINISTRATION
Select	ADMINISTRATION-COMMUNICATIONS
Previous (  )	ADMINISTRATION-MISCELLANEOUS
Select	MISCELLANEOUS-SAVE DEFAULTS
Previous (  )	MISCELLANEOUS-KEYPAD LANGUAGE
Select	KEYPAD LANGUAGE-*ENGLISH
Next (  )/ Previous (  )	Press the Next and/or Previous key until the language required is displayed
Select	<LANGUAGE> IS SELECTED







*The printer must be restarted for changes to the Keypad Language menu to take effect. You can either let the printer restart automatically after you save the change and exit from the Configuration menu, or you can wait for the change to take effect the next time you manually turn on the printer.*

## Control Panel Indicators





Indicator	Off	On
	No problem	These lights indicate the latch that needs to be pressed to gain access to the jam clearance area corresponding to the jam message that appears on the message window.
		
	No problem	The printer requires operator attention (see the status message in the message window).
	The printer is not receiving data.	The printer is receiving or processing data through one or more of its interfaces (usually accompanied by a status message in the message window).

## Control Panel Keys

Key	Function
	<p>The <b>Online</b> key switches the printer between on line and off line status.</p> <p>When off line, the printer continues printing until it has finished all jobs received, but it doesn't accept any new data. Although jobs continue to compile and print using the data already received, a job may be interrupted. If a remote console has taken the printer off line, pressing the Online key on the control panel will not take effect until the remote console puts the printer back on line.</p> <p>You must take the printer off line before using all keys except the Cancel, Print Status?, and MP Size keys.</p>
	<p>The <b>Cancel</b> key allows you to cancel one or all print jobs. (See the <i>CrownBooks</i> for complete information.) It also allows you to end a job.</p> <p>If the printer is on line, press the Cancel key to cancel the job currently printing. To cancel the entire print job if the computer has not completely sent the job, use the printer driver. If you press the Cancel key by mistake, or if you decide not to cancel a print job after pressing this key, press the <b>Menu</b> key to "cancel" the Cancel key's function.</p>
	<p>Use the <b>Print Status?</b> key to print status pages. At the PRINT STATUS YES message on the control panel, press the Select key.</p>
	<p>Use the <b>MP Size</b> key to set the multipurpose tray to the correct media size. The media size must also be set in the driver.</p>

## Menu, Select, Previous, and Next Keys

Before using any of these printer configuration keys, press the Online key to take the printer off line.

Key	Function
	Press <b>Select</b> to access a menu or to choose a displayed menu option.
	The <b>Menu</b> key provides access to the configuration menu. First press the Online key to take the printer off line, and then press the Menu key to access the configuration menu. When you're changing the printer configuration, press this key to cancel a change (before pressing the Select key), to return to a previous menu, or to return to a previous character when entering character information.
	Press the <b>Previous</b> key to return to the previous selection or option for the current menu. When changing character information, use this key to return to the previous choice for the current input character.
	Press the <b>Next</b> key to advance to the next selection or option in the current menu. When changing character information, use this key to advance to the next choice for the current input character.

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***Replacing  
Consumables***

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**2**

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## Introduction

Item	Page
"What is a <b>consumable</b> ?"	page 8
"What is a <b>plane</b> ?"	page 8
"What is the <b>life expectancy</b> of consumables?"	page 9
"How do I <b>order</b> consumables?"	page 10
"Where can I get more <b>information</b> ?"	page 11
"How do I replace the <b>fuser</b> unit?"	page 11
"How do I replace the <b>media feed roller(s)</b> ?"	page 14
"How do I replace the <b>imaging unit</b> ?"	page 16
"What are the <b>toner cartridge life expectancies</b> ?"	page 20
"How should I <b>handle</b> toner cartridges?"	page 21
"How do I replace a <b>toner cartridge</b> ?"	page 21
"How do I replace the <b>transfer unit</b> ?"	page 21

## Consumable Life Expectancies

### What is a consumable?

A consumable is an item that needs to be replaced at regular intervals. For the T8016, consumables include:

- Fuser unit
- Imaging unit
- Media feed roller
- Toner cartridges
- Transfer unit

### What is a plane?

A **plane** (also called a face) is a single **pass** of media past the imaging unit. A **two-sided** (duplex) page (also called a **sheet**) consists of two passes of the imaging unit.

The number of sheets printed shown on the startup page may differ from the sheets printed and faces printed statistics on the consumables statistics page (Operator Control/Consumables/Print Statistics). The numbers on the startup page refer to number of sheets/faces printed during the lifetime of the printer.

## What is the life expectancy of consumables?

### Attention

The stated consumable life expectancy is expressed in simplex letter/A4 pages @ normal 5% coverage in continuous printing—for example, average four-page jobs (optimal consumable life). A duplex page is equivalent to two simplex pages.

The actual life expectancy will vary (or be reduced) based on printing under specific operating conditions and other printing variables, such as intermittent printing—for example, one-page jobs, ambient temperature, humidity, media type, page size, and content of material printed—for example, text or graphics.

### Attention

Failure to follow instructions as outlined in this manual could result in printer failure or damage. Use of non-Tally consumables or use of non-supported print media may cause damage to your printer and void your warranty. In this case, standard time and material charges might be applied to service your printer for that particular failure or damage.

The following messages indicate that an item needs to be replaced.

Item	This item needs replacing after...	Comment
Imaging unit (4 OPCs, 4 developers, imaging unit transfer roller)	REPLACE IMAGING UNIT displays in the message window.  See “How do I replace the imaging unit?” on page 16.	After replacing the imaging unit, the imaging unit automatically resets its statistics.
Toner cartridge	<COLOR> TONER EMPTY displays in the message window.  See “How do I replace a toner cartridge?” on page 21.	After replacing the toner cartridge, reset the statistics on the control panel. (Operator Control/ Consumables/ Item Replaced/<Color> Toner) menu.

Item	This item needs replacing after...	Comment
Transfer unit	REPLACE TRANSFER UNIT displays in the message window.  See "Replacing the Transfer Unit" on page 25.	After replacing the transfer unit and media feed rollers, reset the statistics on the control panel (Operator Control/Consumables/Item Replaced/Transfer Unit) menu.

### Consumables Life Expectancies Chart

<b>Fuser Unit and Media Feed Roller(s)</b>	Approximately 100,000 simplex pages
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<b>Imaging Unit</b>	Approximately 45,000 simplex pages
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Toner Cartridges	Percent Coverage of Simplex Pages (Average Job Size of Four Continuous Pages)							
	5%	10%	15%	20%	25%	30%	35%	40%
Black	8,500	4,250	2,833	2,125	1,700	1,417	1,214	1,063
Yellow, Magenta, Cyan	6,000	3,000	2,000	1,500	1,200	1,000	857	750

<b>Transfer Unit</b>	Approximately 25,000 simplex pages @ 5% coverage.
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### How do I order consumables?

To order supplies, call 1-800-436-4266.



## Replacing the Fuser Unit

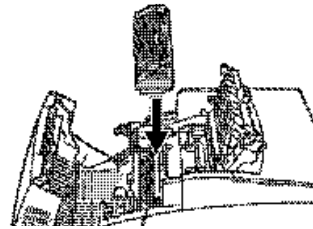
### WARNING!

The fuser can become extremely hot and cause severe burns.  
Make sure the printer is cool before handling it.

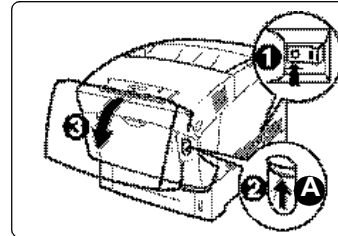


### How do I replace the fuser unit?

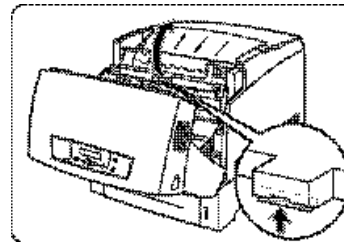
The fuser fuses the toner onto the media.  
Replace the fuser unit (fuser and media feed rollers).



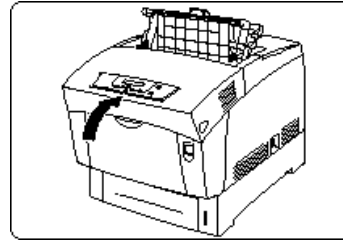
- 1 Turn the printer off ①.
- 2 Open the front cover (button A) ②, ③.



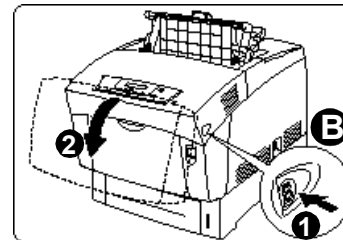
- 3 Open the imaging unit cover.



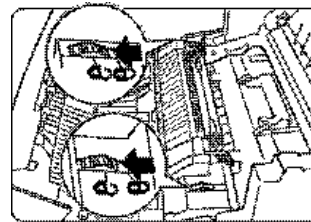
- 4 Close the front cover.



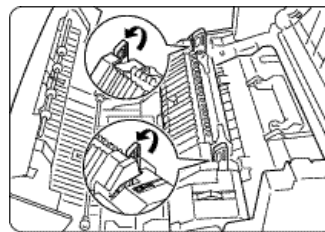
- 5 Open the front cover (button B) ①, ②.



- 6 Unlock the fuser unit by sliding the two side locks forward.



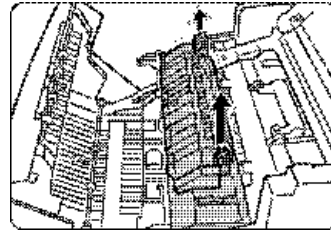
- 7 Lift up both levers of the fuser unit.



- 8 Grip the unit's levers, and gently lift it out of the printer.

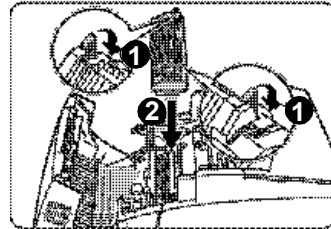


*Dispose of the used fuser according to your local regulations.*

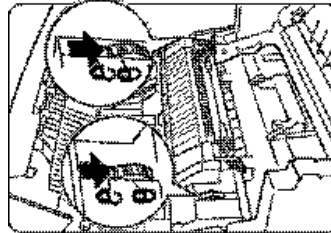


- 9 Unpack a new fuser unit, lift up both levers ①, grip the fuser unit by the levers, align it with the slots in the printer, and slowly lower it ②.

- 10 Completely push down both levers of the fuser unit.

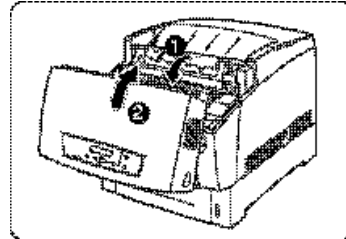


- 11 Lock the fuser unit by sliding the two side locks backwards.



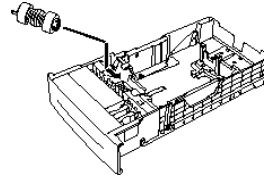
- 12 Close the covers ①, ②.

- 13 Continue with the media feed roller(s) replacement. "How do I replace the media feed roller(s)?" below.



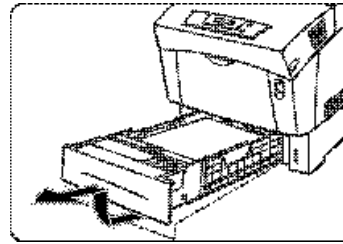
## How do I replace the media feed roller(s)?

The media feed rollers feed media from the media tray(s) into the printer. When the media feed rollers deteriorate, media may not feed correctly from the media tray, resulting in media jams. Replace the media feed roller in each 500-sheet media tray each time you replace the fuser unit.



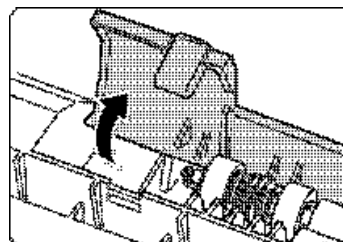
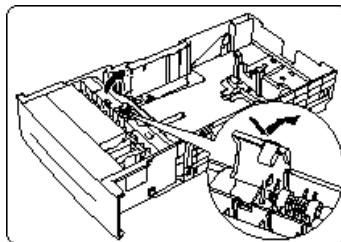
Three media feed rollers are included with the fuser unit. If you do not have a high-capacity input feeder (HCIF), two of the rollers do not need to be installed.

- 1 Pull the media tray out of the printer until it stops.

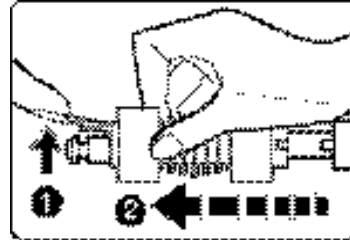


- 2 Hold the tray with both hands, lifting slightly, and remove it from the printer.

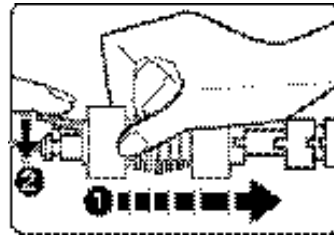
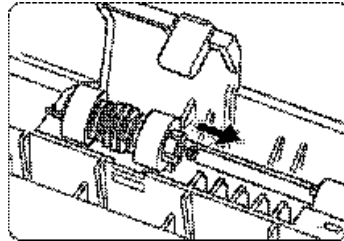
*Push the tabs of the media feed roller cover to open the cover.*



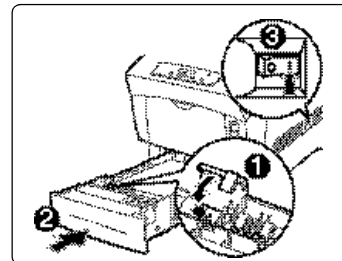
- 3 Lift the clip at the end of the media feed rollers ①, and remove the media feed rollers ②.



- 4 Align the new media feed rollers' axis with the shaft in the media tray as illustrated and slide the shaft through the roller until the clip locks into the groove at the end of the shaft.



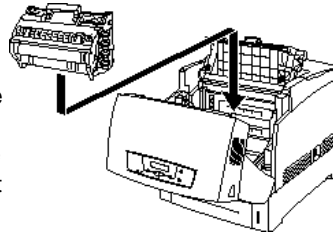
- 5 Close the media feed rollers cover ①.
- 6 Hold the media tray with both hands, align it with the opening in the printer and gently insert it.
- 7 Push the media tray completely back into the printer. ②
- 8 If you have a high-capacity input feeder (HCIF), repeat steps 1–8 for each media tray.
- 9 Turn the printer on. ③
- 10 For both the fuser and the media feed rollers, in the Operator Control/Consumables/Item Replaced/Fuser menu, choose **Yes** to reset the consumables usage monitoring system.



*You must manually reset the consumables usage monitoring system to ensure accurate consumables monitoring.*

## Replacing the Imaging Unit

The imaging unit contains 4 OPCs (Optical Photo Conductors), 4 developers, and an imaging unit transfer roller that forms the image that is developed and transferred to the media. When the imaging unit is worn out, the message `REPLACE IMAGING UNIT` appears. After the imaging unit is replaced, the printer automatically resets the consumables count. Imaging unit life is directly related to the number of rotations of the OPCs. Longest unit life is achieved with continuous printing or minimum 4-page job size. Intermittent printing with small job sizes requires a cleaning rotation after each one-page simplex job, and therefore impacts OPC life.



### **⚠ Attention**

The OPCs are extremely sensitive to bright light, direct sunlight, and touch. Always leave the imaging unit in its protective package until you're ready to install it. Any exposure to light should be avoided and limited to less than two minutes, or permanent damage could result.

If you suspect the OPCs are damaged due to exposure to light, put the entire imaging unit in a dark place to recover. Depending on the amount of exposure, recovery may take up to two hours. Recovery time is dependent on the amount of exposure sustained, and recovery is not guaranteed. Any damage resulting from mishandling of the OPCs will void the warranty of the OPCs.

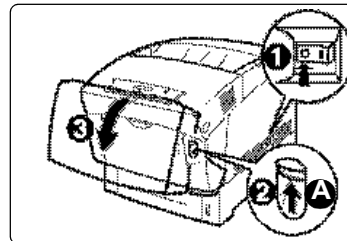
### How do I replace the imaging unit?

#### **WARNING!**

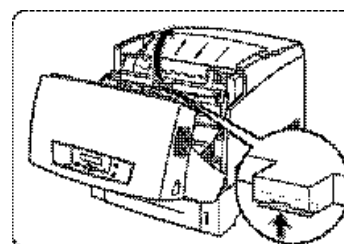
The fuser can become extremely hot and cause severe burns. Make sure the printer is cool before handling it.



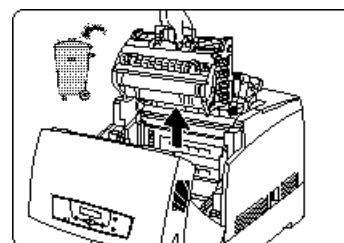
- 1 Turn off the printer ①.
- 2 Open the front cover (button A) ②, ③.



- 3 Open the imaging unit cover.



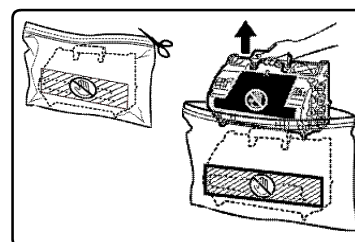
- 4 Remove the used imaging unit.



## **WARNING!**

**Dispose of the used imaging unit according to your local regulations.  
Do not dispose of it by burning.**

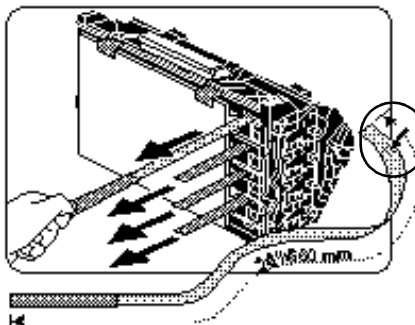
- 5 Remove the new imaging unit from its protective bag.



- 6 Holding the imaging unit horizontally, carefully pull the tabs straight out and completely away from the unit.

**Attention**

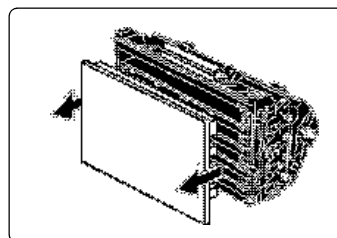
Do not twist the tab as you are pulling it. If any tab doesn't pull completely out (you must be able to see the circle imprinted on the end), the imaging unit must be replaced.



- 7 Carefully remove the protective cover.



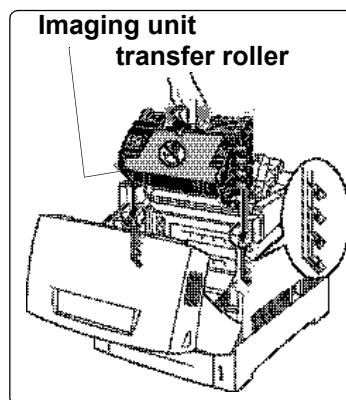
We **strongly** suggest that you save the packaging materials in case you ever need to move or ship the printer.



- 8 Gently guide the imaging unit straight into the printer, following the arrows on the printer to seat the pins.

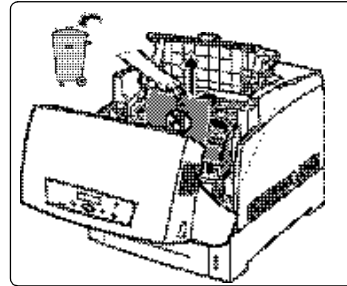
**Attention**

You can damage the unit if it is not aligned correctly.





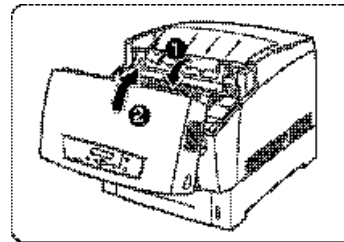
- 9 Remove the black protective sheet.



**! Attention**

Do not touch black transfer rollers. They are extremely sensitive to hand oils and scratches, both of which reduce print quality. This type of damage is not covered by the product warranty.

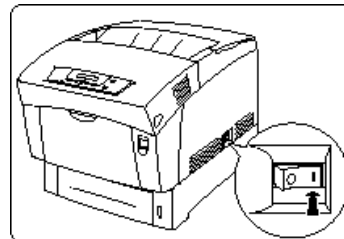
- 10 Close the covers ①, ②.



- 11 Turn on the printer.



*You do not need to reset the consumables usage monitoring system when you replace an imaging unit.*

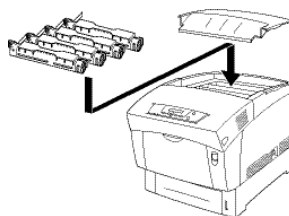


After approximately 6 minutes warmup (assuming normal temperature and humidity), your printer prints a startup page and displays “IDLE” on the message window.

This 6-minute warmup only happens when a new imaging unit has been installed. Normal time to warm up is approximately 1½ minutes.

## Replacing a Toner Cartridge

Characters and images are created in your laser printer through a process that applies toner to the photosensitive OPCs (Organic Photo Conductors) inside your imaging unit. Your printer uses four toner cartridges: black, yellow, magenta, and cyan. Handle the toner cartridges carefully to avoid spilling toner inside the printer or on yourself.



### What are the toner cartridge life expectancies?

Toner cartridge life is directly related to the number of rotations of the OPC. Longest unit life is achieved with continuous printing which requires a cleaning rotation after every fourth page of an average size job. Intermittent printing with small job sizes requires a cleaning rotation after each one-page simplex job, and therefore impacts OPC life.

A toner cartridge contains enough toner to print letter/A4-size pages at the percent coverage stated (other factors will also affect toner life):

Coverage	Black	Yellow, Magenta, or Cyan
5%	8,500	6,000
10%	4,250	3,000
15%	2,853	2,000
20%	2,125	1,500
25%	1,700	1,200
30%	1,417	1,000
35%	1,214	857
40%	1,063	750
45%	944	667
50%	850	600
55%	733	545
60%	706	500
65%	657	462
70%	607	429
75%	567	400
80%	531	375
85%	500	353

Coverage	Black	Yellow, Magenta, or Cyan
90%	472	333
95%	447	316
100%	425	300

When a toner cartridge runs low, *<COLOR> TONER LOW* displays in the message window. Printing continues even though the warning appears. However, the color gradually fades, so replace the toner cartridge as soon as possible. Approximately 100 sheets after detecting that toner in a cartridge is low, the printer displays *<COLOR> TONER EMPTY* in the message window, and the printer stops.

If you change the toner cartridge before it is empty and do not reset the counter (Operator Control/Consumables/Item Replaced/*<Color> Toner*), the consumable status will be incorrect.

## How should I handle toner cartridges?

Keep toner cartridges

- Away from open flames.
- In their packaging until you're ready to install them.
- In a cool, dry location away from sunlight (due to heat).

*The maximum storage temperature is 95° F (35° C) and the maximum storage humidity is 80% without condensation. If the toner cartridge is moved from a cold place to a warm, humid place, condensation may occur, degrading print quality. Allow the toner to adapt to the environment for about one hour before use.*

- Level during storage.

*Do not store cartridges on their ends or turn them upside down; the toner inside the cartridges may become caked or unequally distributed.*

- Away from salty air and corrosive gases such as aerosols.

## How do I replace a toner cartridge?

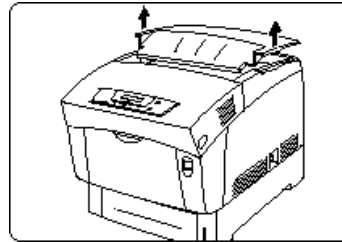


*The toner is nontoxic. If you get toner on your hands, wash them in cool water and mild neutral detergent. If you get toner on your clothes, lightly dust them off as much as possible. If some toner remains on your clothes, use cool, not hot water, to rinse the toner off, provided your clothing is washable.*

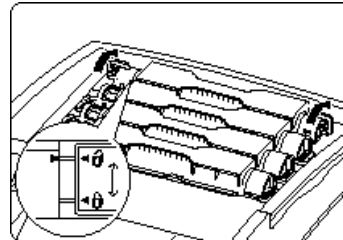
## WARNING!

If you get toner in your eyes, wash it out immediately and consult a doctor.

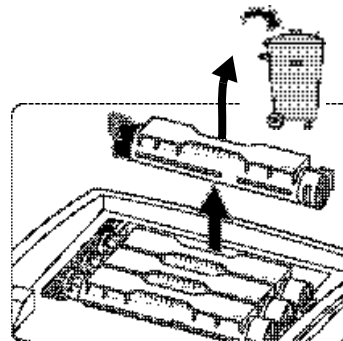
- 1 Check the message display to see which color toner is out.
- 2 Remove the top cover.



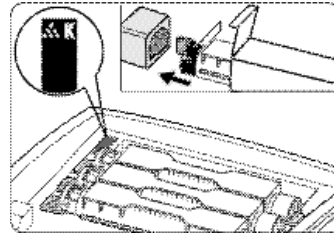
- 3 Gently rotate the toner levers to the unlocked (backward) position.



- 4 Remove the empty toner cartridge. Place the used cartridge in a plastic bag to avoid toner spillage and discard the empty cartridge.



- 5 Remove the new toner cartridge from its box.



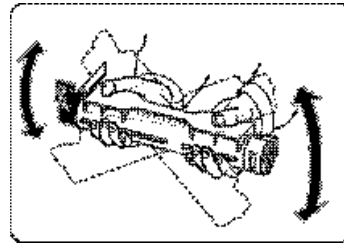
**Attention**

Each toner cartridge has a colored label that corresponds to a colored label to the left of the cartridge slots. Always install the toner cartridge in the slot with a label of the same color.

- 6 Holding the cartridge with both hands, gently shake it seven or eight times to distribute the toner.

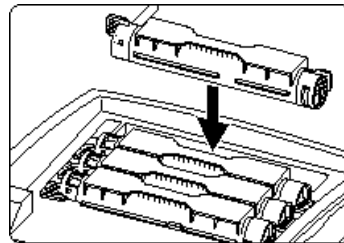


*The toner cartridge should be shaken only at this point, before installation and removal of the toner seal (in step 9).*

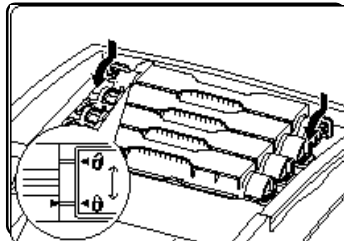


- 7 Align the toner cartridge with the cartridge guides. Gently push the cartridge into the printer.

*The cartridge should install easily.*



- 8 Gently rotate the the toner levers to the locked (forward) position.



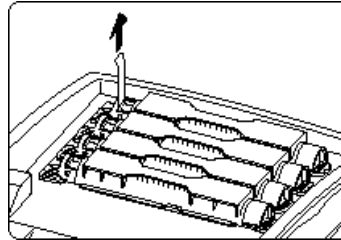
- 9 Pull the toner seal straight up.

**⚠ Attention**

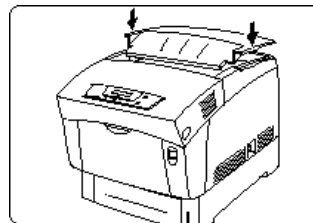
**Pulling the seal to the front or side may damage the cartridge.**



*If the toner seal didn't pull completely out because it was pulled with too much force or it was not pulled straight up while installing toner, call Tally.*



- 10 Replace the top cover.
- 11 In the Operator Control/Consumables/Item Replaced/<Color> Toner (<Color> signifies black K, cyan C, magenta M, or yellow Y) menu choose **Yes** to reset the consumables usage monitoring system.

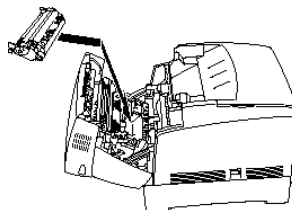


*You must manually reset the consumables usage monitoring system to ensure accurate consumables monitoring.*

- 12 After replacing toner, you may be required to print several pages before the printer recognizes the "new" toner cartridge.

## Replacing the Transfer Unit

The transfer unit interfaces with the roller in the imaging unit.

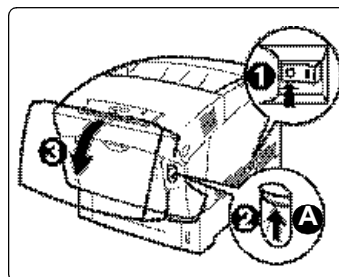


### How do I replace the transfer unit?

- 1 Turn off the printer ①.
- 2 Open the front cover (button A) ②, ③.

#### **Attention**

**Do not touch black transfer rollers. They are extremely sensitive to hand oils and scratches, both of which reduce print quality. This type of damage is not covered by the product warranty.**

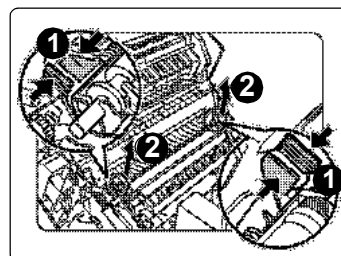


*If you need more room to work in, open the imaging unit cover.*

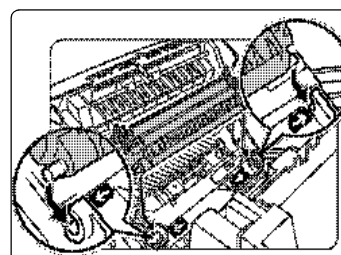
- 3 Grip the tabs at both ends of the transfer cartridge ① and gently lift it ② out of the printer.

#### **Attention**

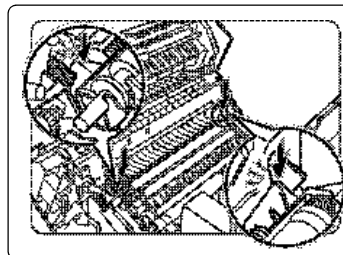
**Lift the roller carefully to prevent toner from spilling out.**



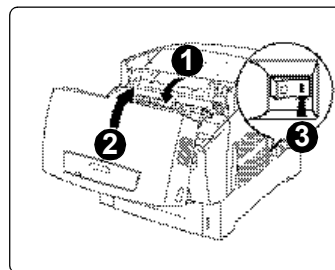
- 4 Unpack a new transfer cartridge and insert the knobs on both ends of the cartridge into the U-shaped guides inside the printer.



- 5 Lock the transfer cartridge into the printer by pushing down on the base of the tabs until you hear a click.



- 6 If you opened the imaging unit cover, close it ①.  
7 Close the front cover ②.  
8 Turn on the printer ③.  
9 In the Operator Control/Consumables/Item Replaced/Transfer Unit menu choose **Yes** to reset the consumables usage monitoring system.



*You must manually reset the consumables usage monitoring system to ensure accurate consumables monitoring.*



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***Using Media***

**3**

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## Introduction

This chapter provides information on handling, selecting, and storing media.

<b>Getting Started</b>	
"How do I take <b>care</b> of media?"	page 29
"What should I watch out for when <b>handling media</b> ?"	page 31
"What <b>sizes</b> of media can I use?"	page 33
"What Is the <b>imageable</b> (printable) area"	page 34
"What is the difference between a <b>nonprintable</b> and <b>nonguaranteed</b> area?"	page 34
<b>Print Quality</b>	
"Why have different <b>print qualities</b> ?"	page 36
"Which <b>print quality is the best</b> ?"	page 37
"How do I <b>select the print quality</b> ?"	page 38
<b>Media Types</b>	
"What are the <b>media types</b> supported?"	page 37
"What is the <b>difference</b> between "glossy plain paper media type," "glossy thick 1 media type," and "glossy or coated stock"?"	page 38
"How do I <b>select the media type</b> ?"	page 38
<b>Other Information</b>	
"How do I <b>prepare</b> and load the <b>media</b> ?"	page 44
"How do I <b>manually duplex</b> ?"	page 54
"How do I <b>autoduplex</b> ?"	page 54

### **Attention**

Using unsupported media such as ink jet paper or coated color transparencies will result in damaging the printer and voiding your warranty.

## Media Storage and Handling

### How do I take care of media?

Keep media on a flat, level surface in its original wrapper until it is time to load it.

If media has been removed from its wrapper, place it in its original packaging and store in a cool, dark place.

#### When storing media, avoid

- Moisture, excess humidity

*Keep media between 30% to 65% relative humidity. Toner does not adhere well to paper where it has become wet.*

*On the other hand, media that has been stored for a long time without staying in its packaging may dry up too much and also cause jamming.*

- Direct sunlight

- Excess heat (up to 86° F/30° C)

- Dust

- Leaning media against other objects or placed in an upright position

Before purchasing a large quantity or special media, do a trial printing with the same media and check print quality.

### What should I watch out for when handling media?



#### Attention

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**Do not use the media types listed below. These could cause poor print quality, media jams, or damage to the printer.**

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#### Do not use media that is

- Coated with a processed surface (such as carbon paper, digitally gloss-coated media, heat-sensitive paper, heat-pressure paper, heat-press transfer paper); colored paper that has been treated
- Special media designed specifically for inkjet printers
- Media that has already been printed on
  - An inkjet printer
  - A monochrome or color laser printer or copier
  - A heat-transfer printer
  - Another printer or fax machine
- Wet or damp

- Layered
- Adhesive
- Folded, creased, embossed, warped, or wrinkled
- Perforated, three-hole prepunched, or torn
- Too slick, too coarse, too textured
- Different in texture (roughness) on the front and back
- Too thin or too thick
- Stuck together with static electricity
- Composed of foil or gilt; too luminous
- Cold water transfer paper
- Heat sensitive or cannot withstand the fusing temperature (between 316° F/158° C and 356° F/180° C, depending on the media)
- Irregularly shaped (not rectangular or not cut at right angles); not uniform in size
- Attached with glue, tape, paper clips, staples, ribbons, hooks, or buttons
- Acidic
- Any other media that is not approved

**Use media that is**

- Suitable for plain-paper laser printers, such as standard or recycled office paper

### **What should I watch out for when loading envelopes?**

**Do not use envelopes that have**

- Sticky flaps
- Tape seals, metal clasps, paper clips, fasteners, or peel-off strips for sealing
- Transparent windows
- Too rough of a surface
- Material that will melt, vaporize, offset discolor, or emit dangerous fumes
- Been presealed

**Use envelopes that are**

- Common office envelopes with diagonal joints, sharp folds and edges, and ordinary gummed flaps
- Approved for laser printing
- Dry
- Printed on the front address side only

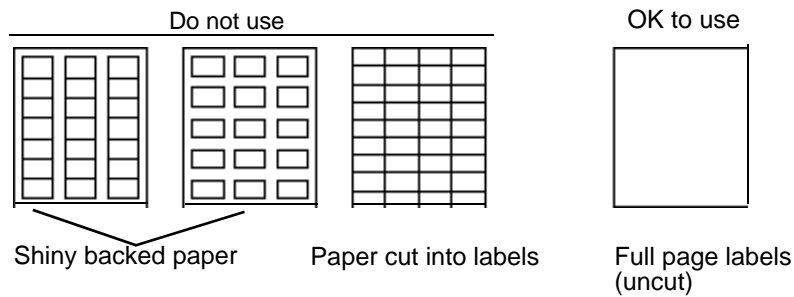
## What should I watch out for when loading labels?

### Do not use label sheets that

- Have labels that easily peel off
- Have the backing sheets that have peeled away or have exposed adhesive

*Labels may stick to the fuser, causing them to peel off and media jams to occur.*

- Are precut



### Use label sheets that are

- Recommended for laser printers

## What should I watch out for when loading postcards?

### Do not use postcards that are

- Coated
- Warped
- Designed for inkjet printers
- Multicolored
- Preprinted or multicolored (may result in printer jamming)

### Use postcards that are

- Available through ADP
- Japanese Post Office standard postcards (3.9 x 5.8" [100 x 148 mm]) recommended for laser printers

## What should I watch out for when loading transparencies?

### Do not use transparencies that

- Are not designed to withstand the fusing temperature of 356 degrees F (180 degrees C). Use of media not meeting this requirement will result in permanent damage to the printer.
- Are coated, such as transparencies designed for most color printers
- Have static electricity that will cause them to stick together

### Use transparencies that are

- Monochrome, uncoated transparencies (also known as OHP film)

### Attention

**Use of media not meeting these requirements will result in permanent damage of the printer.**

## General Notes about Media

Load the media face-up with its top toward the back of the printer.

Often, an arrow on the media package label indicates the printing-side of the media. If you can't remember which side of the media to print on, remove the media from the tray, rotate the stack 180°, turn the stack over, and then place it back in the tray.

### Attention

**Do not allow media to go above the fill limit mark inside the tray or the media may not be fed correctly.**

## Media Trays

Tray Location	Media Tray	Sheet Capacity for Letter/A4-sized Media
Upper	Upper (standard) tray—Tray 2	500
Multipurpose	Multipurpose—Tray 1	100
HCIF	High-capacity Input Feeder (HCIF) (optional)—Trays 5 and 6	1,000 (2 x 500)

## Media Sizes and Print Area

### What sizes of media can I use?

Your printer supports full-color printing on all approved media sizes.

Media	Media Size		Printer Mode	Input Source*	Auto-duplex
	Inches	Millimeters			
<b>A4</b>	8.2x11.7	210.0x297.0	**	U/M/H	Yes
<b>A4 Transp.</b>	8.2x11.7	210.0x297.0	Transparency	U/M/H	No
<b>A5</b>	5.9x8.3	149.0x210.0	**	U/M/H	Yes
<b>B5 (ISO)</b>	6.9x9.8	176.0x250.0	**	M	No
<b>B5 (JIS)</b>	7.2x10.1	182.0x257.0	**	U/M/H	Yes
<b>C5</b>	6.4x9.0	162.0x229.0	**	M	No
<b>C6</b>	4.5x6.4	114.0x162.0	**	M	No
<b>Chokey 3</b>	4.72 x 9.25	120 x 235	Envelope	M	No
<b>Chokey 4</b>	3.54 x 8.00	90 x 205	Envelope	M	No
<b>Commercial #10 Envelope</b>	4.1x9.5	105.0x241.3	Envelope	M	No
<b>Custom Paper Sizes</b>	8.5 x up to 35	215.9 x up to 900	Plain Paper	M	No
<b>Executive</b>	7.3x10.5	184.0x267.0	**	U/M/H	Yes
<b>Folio</b>	8.5x13.0	215.9x330.2	**	U/M/H	Yes
<b>International DL Envelope</b>	4.3x8.7	110.0x220.0	Envelope	M	No
<b>Japanese Postcard</b>	3.9x5.8	100.0x148.0	Postcard	M	No
<b>Kai 16</b>	7.3 x 10.2	185 x 260	**	M	Yes
<b>Kai 32</b>	5.1 X 7.2	130 X 185	**	M	Yes
<b>Legal</b>	8.5x14.0	215.9x355.6	**	U/M/H	Yes
<b>Letter</b>	8.5x11.0	215.9x279.4	**	U/M/H	Yes
<b>Letter Transp.</b>	8.5x11.0	215.9x279.4	Transparency	U/M/H	No
<b>Monarch</b>	3.9x7.5	98.0x191.0	**	M	No
<b>Statement</b>	5.5x8.5	140.0x216.0	**	M	Yes
<b>Notes:</b> * U = Upper (standard) media tray (500 sheet) M = Multipurpose media tray (100 sheet) H = High-capacity input feeder media tray (2 x 500 sheet) **Choices are Plain Paper, Glossy Plain Paper, Label, Thick 1, Glossy Thick 1, Thick 2 (plain or glossy), or Thick 3 (plain or glossy). See "What are the media types supported?" on page 37. Thick 3 can be printed only from the multipurpose tray.					

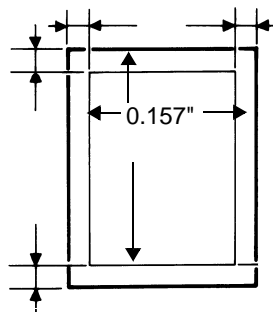
## What is the imageable (printable) area

Each media size has a specific imageable area, the maximum area on which the printer can print clearly and without distortion.

This area is subject to both hardware limits (the physical media size and the margins required by the printer) and software constraints (the amount of memory available for the full-page frame buffer). The imageable (printable) area for all media sizes is the page size minus 0.157" (4 mm) from all edges of the media.



*All media is fed in portrait (short edge first) orientation, and all media is output to the 250-sheet output tray on top of the printer.*



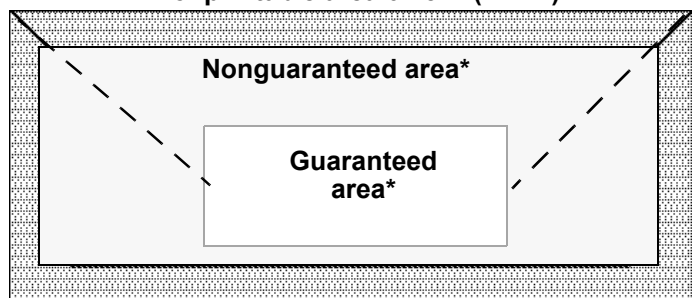
## What is the difference between a nonprintable and nonguaranteed area?

There is a 0.157 inch (4 mm) nonprintable border for all edges on all media sizes and types. Only envelopes have a nonguaranteed area.



*Print orientation is determined by your application.*

**Nonprintable area 0.157" (4 mm)**



\* Varies with envelope type.

## Page Margins

Margins are set through your application. Some applications allow you to set custom page sizes and margins while others have only standard page sizes and margins from which to choose. If you choose a standard format, you may lose part of your image (due to imageable area constraints). If you can custom-size your page, use those sizes given for the imageable area for optimum results.



## Image Alignment

If for any reason, you need to change the image alignment, you can do so in several different ways:

- Adjust the margins or page size through your application (recommended method).
- Use the printer's control panel (Administration/Engine/Image Alignment menu).
- Use the PostScript translate and scale operators to reduce image size and change its placement on the page (requires PostScript programming knowledge).

## Output Tray

The single face-down output tray has a capacity of 250 sheets of 20 lb (75 g/m<sup>2</sup>) bond paper. It is possible to use the combination of upper, multipurpose, and HCIF trays to load up to 1,600 sheets of media, but don't forget the output tray has a limit.

## Media

- Try printing your data on a plain sheet of paper first to check placement.
- All media is fed on the short edge.
- Test any stock thicker than 24 lb bond (90 g/m<sup>2</sup>) to ensure that its performance is acceptable. You should test the number of sheets of thick stock a media tray can hold to ensure that its performance is acceptable.
- Select **Single User Mode** or **Network Mode** (job modes) to specify how media type requests are handled.
  - In **Single User Mode**, you can select the media type and size from the drivers. The driver will overwrite any settings on the printer.
  - In **Network Mode**, if special media is not selected in both the driver and from the printer's control panel, the printer uses plain paper settings.
- Select **print quality** to control the speed of printing, the fuser temperature, and the amount of toner gloss.
- Select the **media type**.

### Why have different print qualities?

The specific **print quality** that is best depends upon your particular needs, for example, you can control the the amount of toner gloss.

### Which print quality is best?

Print Quality	Resolution: Dots per Inch (dpi)	Speed	Comment
Standard	600 x 600	Full	If getting your jobs printed in a timely manner is most important.
Quality	1200 x 1200	Full	If getting your jobs printed with more gloss and better quality is most important.
Fine	1200 x 1200	Half	If getting your jobs printed with more gloss and best quality is most important.

## How do I choose print quality?

For example, in the printer driver (Features tab, Resolution [DPI] option), select Quality.

You have the choice to customize the printing. For example, printing a glossy (shinier) image on plain paper is less expensive, and you don't have to load two media types in your trays.

Test any stock to ensure that its performance is acceptable.

## What are the media types supported?

Media Type Selection	Duplexing Supported***	Weight
Plain Paper	Yes	16–24 lb bond (60–90 g/m <sup>2</sup> )
Glossy Plain (the image is glossy, not the media)		
Thick 1 (plain media)	Yes	76–99 g/m <sup>2</sup>
Thick 1 (glossy stock media)		
Glossy Thick 1 (the image is glossy, not the media)		
Thick 2 (plain media)	**	100–159 g/m <sup>2</sup>
Thick 2 (glossy stock media)		
Thick 3* (plain media)	No	160–216 g/m <sup>2</sup>
Thick 3* (glossy stock media)		
Envelopes*		n/a
Labels Stock*		n/a
Postcards*		n/a
Transparency		n/a
<b>Notes:</b> n/a = not applicable. *Printed from the multipurpose tray only. **Duplexing is supported only up to 28 lb (105 g/m <sup>2</sup> ) bond.		

## What is the difference between “glossy plain paper,” “glossy thick 1,” “glossy stock,” and “coated stock”?

**A glossy plain paper print mode**, whether it be for “Glossy Plain” or “Glossy Thick 1,” pertains to the amount of gloss the **toner** has when it is on the page.

**Glossy stock media type** is when the **media** itself is shiny. Refer to “Thick Stock” on page 39 for the approved glossy media and their weights, as in Thick 2 or Thick 3.

**Coated stock media type** is when the media has a coating (shiny or otherwise) which may not withstand the fusing temperature (between 316° F/ 158° C and 356° F/180° C, depending on the media).

### **Attention**

**Using unsupported media will result in damaging the printer.**

## How do I select the media type?

For example, in the printer driver (Paper tab, Media Type option), select Plain Paper.

### Plain Paper

<b>Media Type</b>	Plain paper Glossy plain	
<b>Input</b>	<b>Tray</b>	Upper Multipurpose High-capacity input feeder (optional trays)
	<b>Capacity</b>	<b>Upper:</b> 500 sheets* of 20 lb bond (75 g/m <sup>2</sup> ) paper; capacity for other weights varies accordingly. <b>Multipurpose:</b> 100 sheets of 20 lb bond (75 g/m <sup>2</sup> ) paper; capacity for other weights varies accordingly. <b>High-capacity input feeder (each tray):</b> 500 sheets* of 20 lb bond (75 g/m <sup>2</sup> ) paper; capacity for other weights varies accordingly.
<b>Orientation</b>	<b>Upper or optional tray</b>	Face up
	<b>Multipurpose tray</b>	Face down

<b>Approved Media</b>	Use only media approved by Tally for laser products.
<b>Weight</b>	16–24 lb bond (60–90 g/m²)
<b>Duplexing</b>	Supported up to 28 lb bond (105 g/m²).
<b>Warning</b>	Using unsupported media such as ink jet paper will result in damaging the printer.
<b>Notes</b>	*For A5-size media, load up to 350 sheets only.  Printing a glossy (shinier) image on plain paper (Glossy Plain media type) is less expensive.

### Special Note about Custom (and Oversized) Media

When printing on media that is longer than 14 inches (355.6 mm), use the multipurpose tray extender and support the media with your hands underneath while it feeds through the multipurpose tray.

<b>Input</b>	<b>Tray</b>	Multipurpose tray only
	<b>Capacity</b>	Up to 50 sheets, depending on the thickness of the media
<b>Orientation</b>	Face down	
<b>Weight</b>	Varies	
<b>Print Mode to Select</b>	Plain Paper	
<b>Duplexing</b>	Not supported	
<b>Notes</b>	<ul style="list-style-type: none"> <li>■ <b>Width:</b> 3.5 inches (88.9 mm) up to 8.5 inches (215.9 mm)</li> <li>■ <b>Length:</b> 5.5 inches (139.7 mm) up to 35.4 inches (900 mm)</li> <li>■ On media that is longer than 14 inches (355.6 mm), the printer pauses for a calibration after every page.</li> </ul>	

### Thick Stock

<b>Media Type</b>	Thick 1  Glossy Thick 1 (toner is glossier)  Thick 2 (plain or glossy media)  Thick 3 (plain or glossy media)
-------------------	---

<b>Input</b>	<b>Tray</b>	Thick 1 all input sources
		Glossy Thick 1 all input sources
		Thick 2 all input sources
		Thick 3 multipurpose tray only
	<b>Capacity</b>	Up to 50 sheets, depending on the thickness of the media
<b>Orientation</b>	<b>Upper or optional tray</b>	Face up
	<b>Multipurpose tray</b>	Face down
<b>Approved Media</b>	Use only media approved by Tally for laser products.	
<b>Weight</b>	<b>Thick 1</b>	76–99 g/m <sup>2</sup>
	<b>Glossy Thick 1</b>	76–99 g/m <sup>2</sup>
	<b>Thick 2 (plain or glossy)</b>	100–159 g/m <sup>2</sup>
	<b>Thick 3 (plain or glossy)</b>	160–216 g/m <sup>2</sup>
<b>Duplexing</b>	Thick 1, Glossy Thick 1, and Thick 2 up to 105 g/m <sup>2</sup> are supported.	
	Thick 2 over 105 g/m <sup>2</sup> and Thick 3 are not supported.	
<b>Notes</b>	<ul style="list-style-type: none"> <li>■ Test all thick stock to ensure acceptable performance.</li> <li>■ 43 lb (163 g/m<sup>2</sup>) bond is also referred to as 90 lb index stock.</li> <li>■ Test any stock such as rigid cardboard (maximum 216 g/m<sup>2</sup>) to ensure that the image does not shift.</li> <li>■ Do not mix thick stock with any other media in the media trays, as this will cause printer jamming.</li> <li>■ Do not duplex envelopes and postcards, even though they use the Thick 1 media selection.</li> </ul>	

## Envelopes

<b>Media Type</b>	Envelope	
<b>Input</b>	<b>Tray</b>	Multipurpose tray only
	<b>Capacity</b>	Up to 100, depending on the thickness of the envelopes
<b>Orientation</b>	Face down	
<b>Approved Media</b>	Use only media approved by Tally for laser products.	
<b>Duplexing</b>	Not supported	

## Glossy Media

### Glossy Stock

<b>Media Type</b>	Glossy Plain Paper—see “Plain Paper” on page 38. Glossy Thick 1—see “Thick Stock” on page 39. Thick 2 or Thick 3 Glossy Stock—see “Thick Stock” on page 39.
<b>Approved Media</b>	Use only media approved by Tally for laser products.
<b>Duplexing</b>	Not supported over 28 lb (163 g/m <sup>2</sup> )
<b>Notes</b>	See “What is the difference between “glossy plain paper,” “glossy thick 1,” “glossy stock,” and “coated stock?” on page 38.

### Glossy Toner

For all media types, in the print quality option on the Features Tab in the printer driver, Quality has more toner gloss than Standard, and Fine has more toner gloss than Quality.

## Label Stock

<b>Media Type</b>	Label stock	
<b>Input</b>	<b>Tray</b>	Multipurpose tray only
	<b>Capacity</b>	Up to 50 sheets, depending on the thickness of the labels
<b>Orientation</b>	Face down	

<b>Approved Media</b>	Use only media approved by Tally for laser products.
<b>Duplexing</b>	Not supported
<b>Notes</b>	<ul style="list-style-type: none"> <li>■ Format label data within your application. Try printing your data on a plain sheet of paper first to check placement.</li> <li>■ Avoid using labels with exposed adhesive; it may stick to the fuser, causing labels to peel off and media jams to occur.</li> <li>■ Adhesive label stock is supported only in letter or A4 sheets.</li> <li>■ A label consists of a face sheet (the printing surface), adhesive, and a carrier sheet <ul style="list-style-type: none"> <li>— The face sheet must follow the plain paper specification.</li> <li>— The face sheet surface must cover the entire carrier sheet, and no adhesive should come through on the surface.</li> </ul> </li> <li>■ You can print continuously with label paper. However, this could affect the media feed, depending on the media quality and printing environment. If problems occur, stop the continuous print and print one sheet at a time.</li> <li>■ Check your application documentation for other information on printing labels.</li> </ul>

## Postcards

<b>Media Type</b>	Postcard	
<b>Input</b>	<b>Tray</b>	Multipurpose tray only
	<b>Capacity</b>	Up to 100 sheets, depending on the thickness of the postcards
<b>Orientation</b>	Face down	
<b>Approved Media</b>	Use only media approved by Tally for laser products.	
<b>Duplexing</b>	Not supported	
<b>Notes</b>	<ul style="list-style-type: none"> <li>■ If the postcard is warped, press on the warped area to flatten it before putting it in the multipurpose tray.</li> <li>■ Using preprinted multicolored postcards may result in printer jamming.</li> </ul>	



## Transparencies (Uncoated Only)

<b>Media Type</b>	Transparency	
<b>Input</b>	<b>Tray</b>	All input sources
	<b>Capacity</b>	Up to 100 sheets, depending on the thickness of the transparencies
<b>Orientation</b>	<b>Upper or optional tray</b>	Face up
	<b>Multipurpose tray</b>	Face down
<b>Approved Media</b>	Use uncoated transparencies (also known as OHP film). We recommend only media recommended for laser products.	
<b>Media Size</b>	Only letter and A4 sized transparencies are supported.	
<b>Duplexing</b>	Not supported	
<b>Warning</b>	Using unsupported transparency media such as coated color transparencies will result in damaging the printer.	
<b>Notes</b>	<ul style="list-style-type: none"> <li>■ Use uncoated transparencies. You may print colored text and/or images on monochrome transparencies.</li> <li>■ Remove transparency media as soon as possible from the output tray to avoid buildup static.</li> <li>■ Do not handle transparencies too much. Do not fan large quantities of transparencies before loading. If you touch the face of transparencies with your bare hands, print quality may be affected.</li> <li>■ You can print continuously with transparencies. However, this could affect the media feed, depending on the media quality, static buildup, and printing environment. If you have problems loading a large number of transparencies at a time, try loading only 1–10 sheets. For the 500-sheet media trays, try loading about 100 pages of plain paper first in the tray to give more height to the transparency stack to reach the feed rollers.</li> </ul>	

## Loading Media

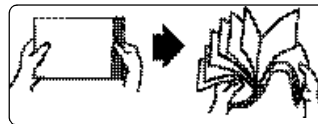


### How do I prepare and load the media?

#### Preparing the Media



*Don't unwrap the paper above the printer, as this might cause paper particles to fall into the printer. Don't fan large quantities of transparency media because static electricity builds up.*



- 1 Take off the top and bottom sheets of a ream of paper.
- 2 Holding a stack of approximately 500 sheets at a time, fan the stack to prevent static buildup in the paper before inserting it in a tray.

#### Loading and Printing Media

##### Refilling an Upper or Optional Media Tray

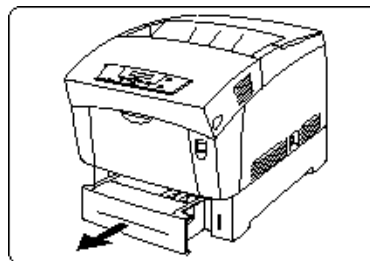


*The illustrations show a standard upper media tray; however, instructions are the same for a high-capacity input feeder media tray.*

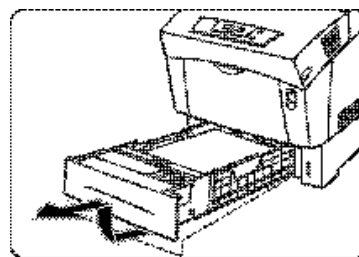
#### **⚠ Attention**

**Except for transparencies, do not mix media of different sizes, types, or weights in the same tray, as this will cause printer jamming.**

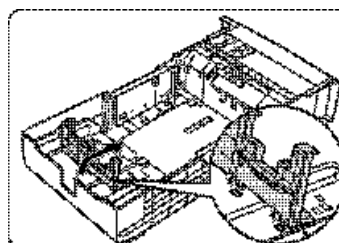
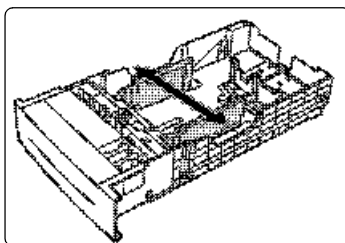
- 1 Slide open the media tray until it stops.



- 2 Using two hands, lift it slightly to remove it from the printer and place it on a flat surface.
- 3 Remove any media remaining in the tray.



- 4 If necessary, adjust the two side media guides and the end media guide to the proper positions.

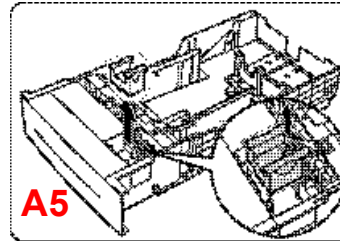


**⚠ Attention**

The end media guide must be in direct alignment with the media size mark in the bottom of the media tray. If the guide is not in the proper hole, automatic paper size detection will not work.

**5** To set the tray for A5 paper, use the provided A5 spacer.

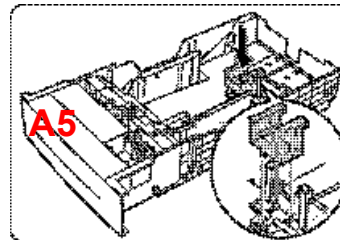
- a** Lift the A5 spacer from its storage place in the media tray.
- b** Gently lift the end media guide to position the guide in the proper media size hole.



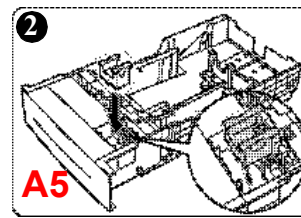
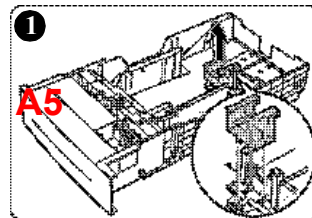
- c** Insert the spacer into its slot and load the A5 media.



*Make sure that both the end media guide and A5 spacer have clicked into place.*



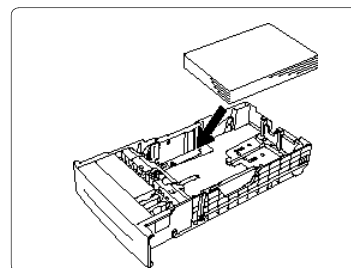
- d** To return to other approved media sizes, remove the A5 spacer from the slot, and then replace it in the tray.



**6** Load the media (plain or glossy) face-up with its top toward the back of the printer.

*Often, an arrow on the media package label indicates the printing-side of the media. If you can't remember which side of the media to print on, remove the media from the tray, rotate the stack 180°, turn the stack over, and then place it back in the tray.*

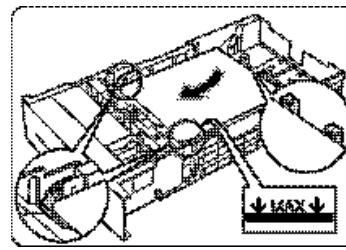
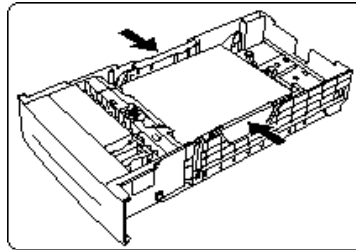
*A fill limit mark is provided on the inside of the tray. The upper and optional media trays hold 500 sheets of 20 lb bond (75 g/m<sup>2</sup>) paper.*



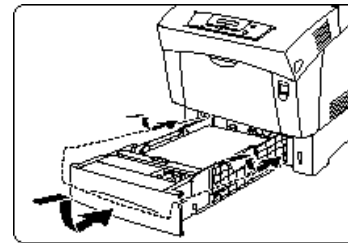
- 7 If you have removed media from the tray, stack it with the new media, even the edges, then reload it.

**⚠ Attention**

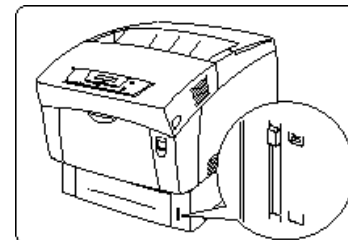
**Readjust the media guides after inserting the media. Improperly adjusted guides may cause poor print quality, media jams, or printer damage. The paper should fit easily between the guides. Make sure the paper corners are not bent. Do not overfill the tray.**



- 8 Slide the media tray back into the printer.



*Check the gauge to make sure the tray is registering the loaded media. Use this gauge to determine when the tray needs to be refilled.*

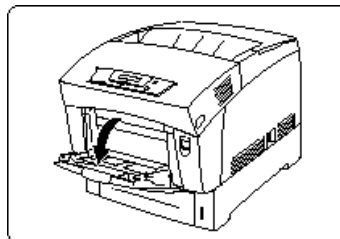


## Refilling a Multipurpose Media Tray

- 1 Take off the top and bottom sheets of a ream of paper. Holding a stack of approximately 100 sheets at a time, fan the stack to prevent static buildup in the paper before inserting it in a tray. Don't fan large quantities of transparency media.

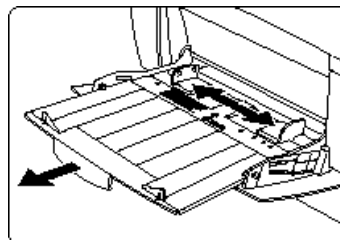
- 2 Open the multipurpose tray.

*Do not place heavy objects on the multipurpose tray.*



- 3 Adjust the media guides to the width of the media.

*The tray extender supports long media.*

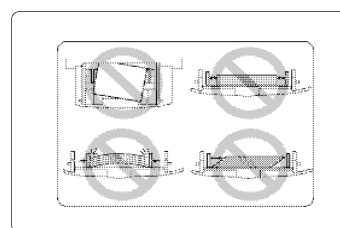


### Attention

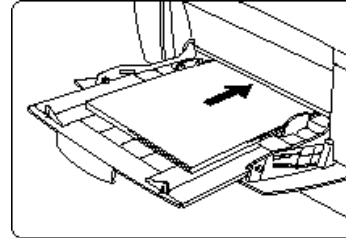
**Make sure the media fits easily between the guides. Improperly adjusted guides may cause poor print quality, media jams, or printer damage.**



*Make sure the guides are snug enough to keep the media straight, but not so tight that it buckles.*



- 4 Place the media into the multipurpose tray with the printing-side up.



## Using Media Other Than Plain Paper

### Attention

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Although your printer was designed for occasional printing on a wide range of media types, it is not intended to print exclusively on a single media type except plain paper. Continuous printing on media other than plain paper (such as envelopes, labels, thick stock, or transparencies) may adversely affect print quality or reduce engine life.

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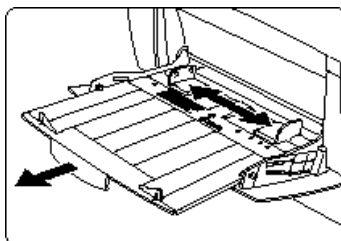
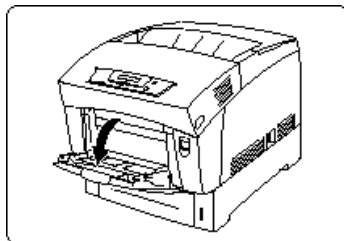
### How do I load and print envelopes?



*Envelope printing is supported only from the multipurpose tray.*

- 1 In the printer driver (Paper tab, Media Type option), select Envelope.
- 2 Select the size of envelope, either
  - a Press the MP Size  key and scroll to the required envelope size and select it, or
  - b On the control panel, press the Menu  key and select Operator Control/Multipurpose Size, and scroll to the required envelope size, and select it.
- 4 Place the envelopes on a flat surface, and flatten them by pressing down the corners.
- 5 Flex the envelope stack (including the edges) to remove any stiffness.
- 6 Correct any bent corners, and then tap the envelopes on a flat surface to align them.

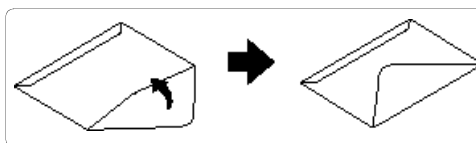
- 7 Open the multipurpose tray and adjust the media guides to the length and width of the envelopes.



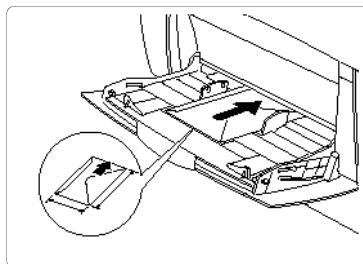
**Attention**

**Improperly adjusted guides may cause poor print quality, media jams, or printer damage.**

- 8 Fold the flaps.  
*Make sure the adhesive is dry.*



- 9 Place the envelope stack into the multipurpose tray with the printing-side down.  
*Print envelopes on the front address side only. Some parts of the envelope consist of three layers of paper—the front, back, and flap. Anything printed in these layered regions may be lost or faded.*



*Check your application documentation to determine if the flap should be placed on the left or on the right. You can also print a single envelope to check the orientation before printing multiple copies.*

- 10 Recheck the media guides to make sure they are adjusted to the width of the envelopes.  
11 Print the envelopes.



- 12 Open the flap of each envelope immediately (before it cools) after the envelope is delivered to the output tray.



*Because the envelopes pass through heated rollers, the gummed area on the flaps may seal. Using envelopes with emulsion-based glue avoids this problem.*



### How do I load and print glossy stock?

Refer to “Loading and Printing Media” on page 44.

### How do I load and print labels?





*Label printing is supported only from the multipurpose tray in letter or A4 media sizes.*

- 1 In the printer driver (Paper tab, Media Type option), select Label Stock.
- 2 Select the size of label.
  - a Press the MP Size  key and scroll to the required label size and select it, or
  - b On the control panel, press the Menu  key and select Operator Control/Multipurpose Size. Scroll to the required label size and select it.
- 4 Load the label media face down in the multipurpose tray.
- 5 Adjust the media guides to the width of the label media.
- 6 Print the labels.

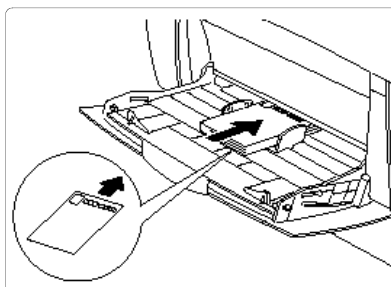
### How do I load and print postcards?



*Postcard printing is only supported from the multipurpose tray.*

- 1 In the printer driver (Paper tab, Media Type option), select Postcard.
- 2 Select postcard.
  - a Press the MP Size  key and scroll to Postcard and select it, or
  - b On the control panel, press the Menu  key and select Operator Control/Multipurpose Size. Scroll to Postcard and select it.
- 4 Place the postcards on a flat surface, and flatten the corners by pressing down them.

- 5 Load the postcard media printing-side down in the multipurpose tray.
- 6 Adjust the media guides to the width of the postcards.
- 7 Print the postcards.



### How do I load and print thick stock?

#### **Attention**

**Do not mix thick stock with any other media in the same tray, as this will cause printer jamming.**





*Most thick stock printing is supported from any input bin. However, media from 160-216 g/m<sup>2</sup> can be printed only from the multipurpose tray.*

- 1 In the printer driver (Paper tab, Media Type option), select Thick 1 (76–99 g/m<sup>2</sup>), Glossy Thick 1 (76–99 g/m<sup>2</sup>) or Thick 2 (100–159 g/m<sup>2</sup>).
- 2 Remove any media in the media tray.
- 3 Load the new media.
- 4 Slide the media tray back into the printer.
- 5 Print the thick stock.

### How do I load and print transparencies?

#### **Attention**

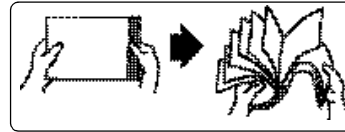
**Use only transparency media approved by Tally for this printer.**

- 1 In the printer driver (Paper tab, Media Type option), select Transparency and (Paper tab, Paper Size option), select either Letter or A4.
- 2 For transparencies, select the size of transparency, either
  - a For the multipurpose tray, press the MP Size  key and scroll to the required transparency size and select it, **or**
  - b For all input trays, on the control panel, press the Menu  key and select Operator Control/Multipurpose Size. Scroll to the required transparency size and select it.

- 3 Fan a few transparencies.

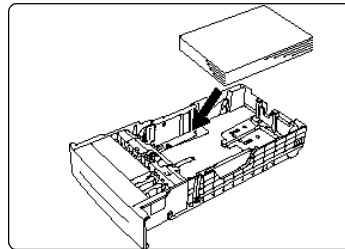


*Fanning a large number will build up static electricity.*



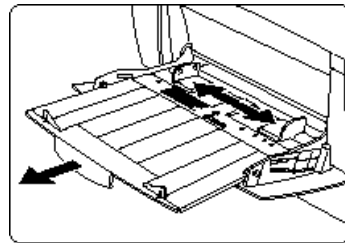
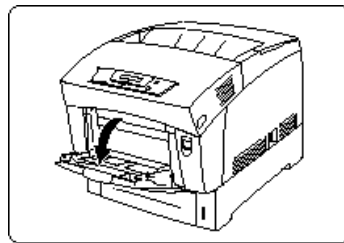
- 4 Load the media trays.

- a Put media face side down in the upper or optional trays,



or

- b Open the multipurpose tray and adjust the media guides to the width of the transparencies.



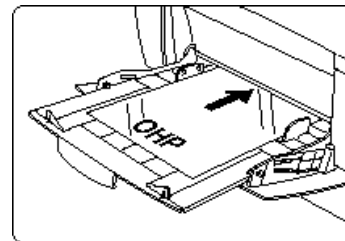
### **Attention**

**Improperly adjusted guides may cause poor print quality, media jams, or printer damage.**

- c Place the transparencies into the multipurpose tray with the printing-side up.

- 4 Print the transparencies.

*Immediately remove the printed transparencies from the output tray.*



## Duplexing

Select paper with high opacity for duplex (2-sided) printing. Opacity refers to how effectively paper blocks out what is written on the opposite side of the page. If the paper has low opacity (high translucency), then the printed data from one side of the page will show through to the other side. For best results, print a small quantity to make sure the opacity is acceptable.



*Only up to 28 lb bond (105 g/m<sup>2</sup>) plain paper can be autoduplexed.*

### How do I manually duplex?



*Media jams may occur if the printed sheet(s) reinserted are not entirely flat.*

- 1 In the printer driver (Paper tab), select Simplex, then double-click OK.
- 2 In the Print Document screen, select All.
- 3 Select and print the Odd-Numbered Pages.
- 4 Remove the media, flip it over, and select and print the Even-Numbered Pages.

### How do I autoduplex?

Your printer is configured with 256 MB of RAM. Duplex (2-sided) printing can be done automatically with enough memory installed. For example, a Fine print quality, 1200 dpi duplex legal-size page would require 288 MB of SDRAM. Additional memory can be added up to 512 MB. Very high coverage pages may revert to 600 dpi when duplex printing if enough memory is not installed. With letter media, two sheets are in the media path; with legal, only one is. Therefore, it requires more memory to print the two sheets of letter media.

Duplexing envelopes, glossy stock heavier than 28 lb bond (105 g/m<sup>2</sup>), labels, postcards, thick stock heavier than 28 lb bond (105 g/m<sup>2</sup>), transfer media, or transparencies is not supported.

- 1 To print duplex (both sides of the sheet), load the media with the **top** of the media toward the back of the tray. When printing from the
  - Upper or optional trays, load the media printing-side up.
  - Multipurpose tray, load the media printing-side down.

*In autoduplexing, the back side is printed first and the front side is printed last.*

- 2 Set the driver—for example: in the Layout tab, Duplex Options, select Long Edge (flipped horizontally as in a loose-leaf notebook), or Short Edge (flipped vertically as on a clipboard) as the Duplex option.
- 3 Click OK.



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# ***Maintaining the Printer***

# **4**



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## Introduction

"How do I <b>handle</b> the printer?"	page 58
" <b>When</b> does the printer need cleaning?"	page 60
"What cleaning <b>materials</b> should I use?"	page 60
"How do I clean the <b>density sensor</b> ?"	page 62

### How do I handle the printer?

- Handle the printer with care to preserve its life. Abuse may cause damage.
- Read all caution and warning labels carefully, making sure to follow any instructions contained in them. These labels are located on the inside of the printer's covers and the interior of the printer body.
- Do not tilt the printer more than 10° in any direction.
  -  *For best output quality and longest consumables life, keep the printer on a hard, flat, level (within ±5°) surface capable of supporting about 119 lbs (53.9 kg). A surface can be tested for levelness with a standard round pencil. If the pencil rolls, the surface is not level.*
- Do not tap paper stacks on the printer.
- Do not oil, lubricate, or disassemble the printer.
- Do not touch the transfer roller cartridge, electrical contacts, gears, or laser beam devices. Doing so may damage the printer and cause the print quality to deteriorate.
- Keep media in the output tray at minimum level.
  - If the media stacks too high, your printer may experience media jams, excessive media curl, or built-up static. Remove transparency media as soon as it's printed.*
- Handle toner carefully.
- Do not use toner cartridges if they have been removed from the printer. Take care to avoid toner spillage caused by shaking or bumping the toner cartridge.
  -  *The toner is nontoxic. If you get toner on your skin, wash it off with cool water and neutral detergent. If you get toner on your clothes, lightly dust them off as much as possible. If some toner remains on your clothes, use cool, not hot water, to rinse the toner off, provided your clothing is washable.*



## **WARNING!**

**If you get toner in your eyes, wash it out immediately with cool water and consult a doctor.**

- Lift the printer from the bottom only, using the carrying grips. Make sure that two people are available to lift the printer when moving it.
- Do not place anything on the top of the printer.
- Do not open any cover of the printer **during** printing.
- Always close the printer covers gently. Never expose the printer to vibrations.
- Do not leave the printer's covers open for any length of time, especially in well-lit places; light may damage the imaging unit.

## **Attention**

**The OPCs in the imaging unit are extremely sensitive to bright light, direct sunlight, and touch. Always leave the imaging unit in its protective box until you're ready to install it. Any exposure to light should be limited to less than two minutes, or permanent damage could result. Handle the unit carefully so you don't touch the black surface of the transfer roller.**

- Do not cover the printer immediately after using it. Turn it off and wait until it cools down.

*When the front cover is opened, the fuser temperature drops gradually (one hour wait time).*

## Cleaning

### When does the printer need cleaning?

#### Internal Cleaning Cycles

The image unit performs an automatic cleaning rotation after every page of one-page simplex jobs and pages longer than 14 inches (355.6 mm), and between pages of multipage jobs, depending on the amount of processing required between pages. Cleaning cycles also occur at intervals (as shown below) depending on the amount of simplex pages printed.

The printer pauses for approximately 30 seconds to do an automatic internal cleaning cycle during long print jobs.



*The cleaning cycle interval is more frequent as the imaging unit ages.*

Image Unit Print Count	Printer Pauses Every x Simplex Pages
0–5,119	48
5,120–20,479	32
20,480–25,599	20
25,600–30,720+	16

#### Cleaning Schedule

This item needs cleaning...	After...	By...
Printer exterior	Every month, or as necessary	User
Density sensor	ADC SENSOR DUSTINESS WARNING appears in the message window.	

### What cleaning materials should I use?



#### Attention

**Do not vacuum the printer; vacuuming could cause static electricity to build up and damage sensors.**

Make sure any parts removed during cleaning are replaced before you plug in the printer.

Use	Avoid
<b>Exterior</b>	
A soft <b>dry</b> cloth to clean the control panel.	Sharp or rough implements (such as wire or plastic cleaning pads); any liquid.
A soft <b>damp</b> cloth to clean the outside of the printer.	Sharp or rough implements (such as wire or plastic cleaning pads).
Mild neutral detergent to clean the outside of the printer if stains remain. (Always test any cleaning solution on a small area of your printer to check the solution's performance).	Abrasive or corrosive solutions that contain solvents (such as alcohol or benzine); aerosol or pump-sprayed cleaners.
<b>Interior</b>	
A soft <b>dry</b> cloth or cotton swab to clean the density sensor.	Vacuuming. Pulling media too hard and tearing it. Sharp implements (such as tweezers)

## WARNING!

**Turn off the printer, unplug the power cord, and disconnect all interface cables before cleaning.**

- Be careful when cleaning the inside or removing paper jams, as the fuser unit and other internal parts may become very hot. Either clean the density sensor before use, or allow time after unplugging the printer to allow the fuser unit to cool down.

## ! Attention

**The fuser unit is hot. When the front cover is opened, the fuser unit temperature drops gradually (one hour wait time).**



## WARNING!

**Do not spill water or detergent into the printer; otherwise the printer will be damaged and an electric shock may occur.**

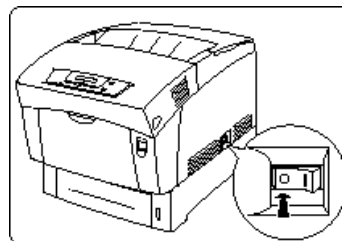
- Never spray cleaning solution directly on the printer's surface; the spray could penetrate through the air vents of the printer and damage the internal circuits.
- Be careful when cleaning the inside or removing paper jams, as the fuser assembly and other internal parts become very hot. Open the front cover, and let the interior of the printer cool before handling the inside of the printer.
- Read all caution and warning labels carefully, making sure to follow any instructions contained in them. These labels are located on the printer's interior.

For printer storing and shipping instructions, refer to Section 8, page 128 and page 131.

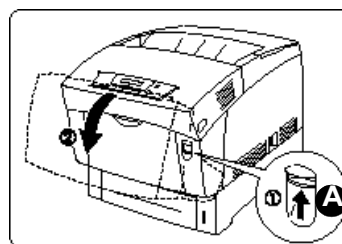
### How do I clean the density sensor?

The printer's transfer roller contains a density sensor to detect the density of media passing by. When the sensor gets dirty or dusty, print quality will degrade. When that happens

**1** Turn off the printer.

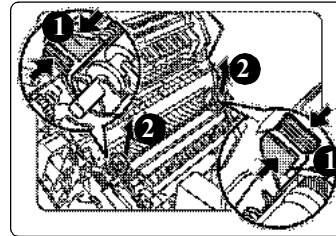


**2** Open the front cover (button A)  
①, ②.



- 3 Grasp the two tabs ① on the transfer roller to lift it straight up ② out of the printer.

*Be careful not to spill toner into the printer.*

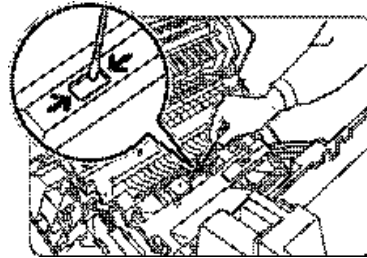


### **Attention**

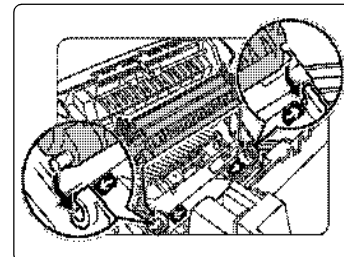
**Do not touch or scratch the black surface of the transfer roller or the density sensor window.**

- 4 With a clean, dry cloth or cotton swab, gently wipe the density sensor.

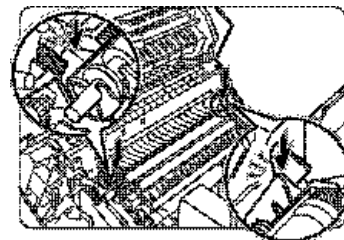
*Do not use force to clean the sensor window.*



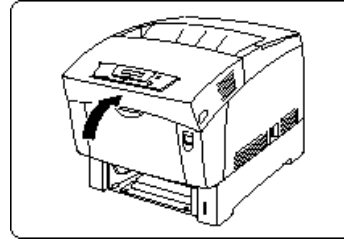
- 5 Replace the transfer roller by inserting the pins at both ends of the transfer roller into the U-shaped bearings inside the printer.



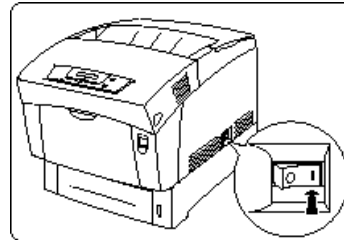
- 6 Push down on the two tabs until they click to lock the transfer roller cartridge into the printer.



**7** Close the cover.



**8** Turn on the printer.



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***Troubleshooting***

**5**

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## Introduction

This chapter explains automatic jam recovery, discusses how to locate, remove and prevent media jams, presents tables of common status messages, and actions you should take when a specific problem occurs, and provides information to aid you in resolving printer problems you may encounter, or at least guide you to the proper sources for help. You'll also find a problem checklist and the information you'll need to have before placing a service call if one becomes necessary.

## Printing a Status Page

There are two kinds of status pages:

**Standard:** A one-page overview of the most common printer settings used to confirm that your printer is printing.

**Advanced:** Information about printer parameter settings, fonts, and emulations available. The document may have many pages, depending on the fonts installed. Print an advanced status page in case you need to restore any current settings.

Select the type of status page through the Administration/Special Pages/Status Page Type menu on the control panel.

After you have chosen the type you want, press the **Print Status?** button on the control panel to verify the printer is printing correctly. You can also print a status page through the Administration/Special Pages/Print Status menu.

**Tally** Computer Printers  
**Tally Xpress T8016 Color Laser**  
Printer Name : Tally Xpress T8016 Color Laser  
**Status Page**

Printer Identification	
System Release:	1.0.3
Engine Firmware Version / NVR:	2.0.0 / 3.6.5
Version:	3010.041, Revision 35
Processor ID:	2753
Faces Printed:	220
Sheets Printed:	189

Current Memory Configuration	
Location	Size
Host Input:	3072 KB
Display List:	80456 KB
Font Cache:	1024 KB
Heap:	8192 KB
Framebuffer:	127520 KB
Emulation:	64 KB
HP Storage Pool:	3072 KB
Emulation Temporary:	3072 KB
Color Matching:	8192 KB
Disk Cache:	28 KB
System Use:	1024 KB
Total Memory:	262144 KB
PostScript® Emulation VM:	5931094
VM allocated:	171408
VM remaining:	5759586

Printer Settings	
Compatibility Level:	Level 3
Do Start-up Page:	Yes
Do Error Handler:	No
Do Sleep/Start:	Yes
Is Password 0?	Yes
Duplex:	Off
Default Chaining:	On
Default Paper Tray:	Upper
Default Output Tray:	Upper
Number of Paper Trays:	2
Page Stack Order:	Face Down
Left Margin:	100
Top Margin:	100
Print Quality:	Standard

Timeouts	
Wait:	120 sec.
Job:	0 sec.
Emulation:	5 sec.
ESP:	3 sec.

Communications Settings & Input Buffer Sizes		
Parallel:	ESP, 8 Bits, Interactive	15360 bytes
IF 2:	Ethernet I/F 6.12ET+, ESP, HW address: 08.00.86.19.30.13, Enabled	15360 bytes
USB:	ESP	15360 bytes
Share Spooling Space		3099648 bytes



## PDF File Printing

Your printer has the ability to print PDF files directly just as it does for PostScript and PCL files. This can be a time-saving feature. Direct printing removes the need to open the file in an application, such as Acrobat Reader, then print the file via a PostScript or PCL driver. Your printer supports PDF version 1.3 and below. The PDF file can be sent to the printer using any method (lpr, ftp, etc.) that is normally used to print PostScript or PCL files.

### Adjusting Memory Clients for PDF Printing

The unique structure of PDF files requires that you make some adjustments to your printer's default memory clients. All PDF files contain information at the end of the files that is needed to correctly format them in the printer. Because of this, the entire file must be spooled into the printer before it can be interpreted. In order to spool the entire job into the printer, the Host Input (Spool) memory client may need to be adjusted. To determine the required size for the Host Input memory client, you first need to estimate the maximum file size, add 10% to this number and this becomes your required Host Input memory size. In the event that you experience problems, you may want to increase the Host Input memory size further. The maximum size of PDF files which may be printed on the T8016 is determined by the amount of installed memory. Direct printing of complex or large PDF files may require additional memory (RAM) and/or a hard disk. We recommend a hard disk for optimum performance when printing large PDF files. Refer to the *CrownBooks* on how to adjust the memory clients.

### Printing Preformatted Files

Your printer also provides a utility via a built-in web page for printing PDF files directly from the host using the browser. Users will be presented with a Browse button that, when selected, will enable a file chooser on the host. Users then select the file that they want to send to the printer, and the file is transferred and printed.

### Troubleshooting PDF Direct Printing

If you are having problems printing large PDF files using direct printing, increase the PS Wait Timeout.

Printing large PDF files from your web browser via the built-in web page may fail without any indication of an error. The job will appear to start normally, but then flush without printing. The browser screen will indicate that the file has printed.

To correct the problem, increase the amount of time allowed before the PS Wait Timer expires. The factory default setting for this timeout is 120 seconds. Doubling the value to 60 seconds in the Administration/Communications/Timeouts/PS Wait Timeout menu should correct most problems, or the value can be set to 0 seconds, which effectively makes the timeout period infinite.

## Preventing Media Jams

Make sure that...	Avoid...
Media matches the printer specifications.	Media that is folded, wrinkled, or excessively curled.
Media is flat, especially on the leading edge.	Double feeding ( <i>remove the media and fan the sheets—they may be sticking together</i> ).
The printer is on a hard, flat, level surface.	Fanning large quantities of transparencies since this causes static.
You have the correct media type selected if you're printing on envelopes, glossy stock (set as Thick 2 or Thick 3), labels, thick stock, or transparencies.	Loading more than one type/size/weight of media in a tray at the same time.
You store media in a dry location away from moisture and humidity.	Overfilling the media input trays.
You always adjust the media width regulation guides in the media tray after inserting the media ( <i>a guide that is not properly adjusted can cause poor print quality, paper jams, or printer damage</i> ).	Allowing the output tray to overfill ( <i>the face-down output tray has a 250-sheet capacity—jamming may occur if you allow media to accumulate more than 250 sheets at a time</i> ).

Make sure that...	Avoid...
You load the media (for single-sided pages) printing-side up in the 500-sheet media trays or printing-side down in the multi-purpose tray <i>(many manufacturers place an arrow on the end of the wrapper to indicate the printing side—if you can't determine which side of the media to print on, remove the media from the tray, rotate the stack a half-turn, turn the stack over, and then place it back in the tray).</i>	Buildup of transparencies in the output tray <i>(buildup causes static electricity).</i>

## Automatic Jam Recovery

The printer provides automatic jam recovery (when enabled through the Administration/Engine/Page Recovery menu). After you remove any jammed media, printing automatically resumes from the page the printer stopped at when the jam occurred.

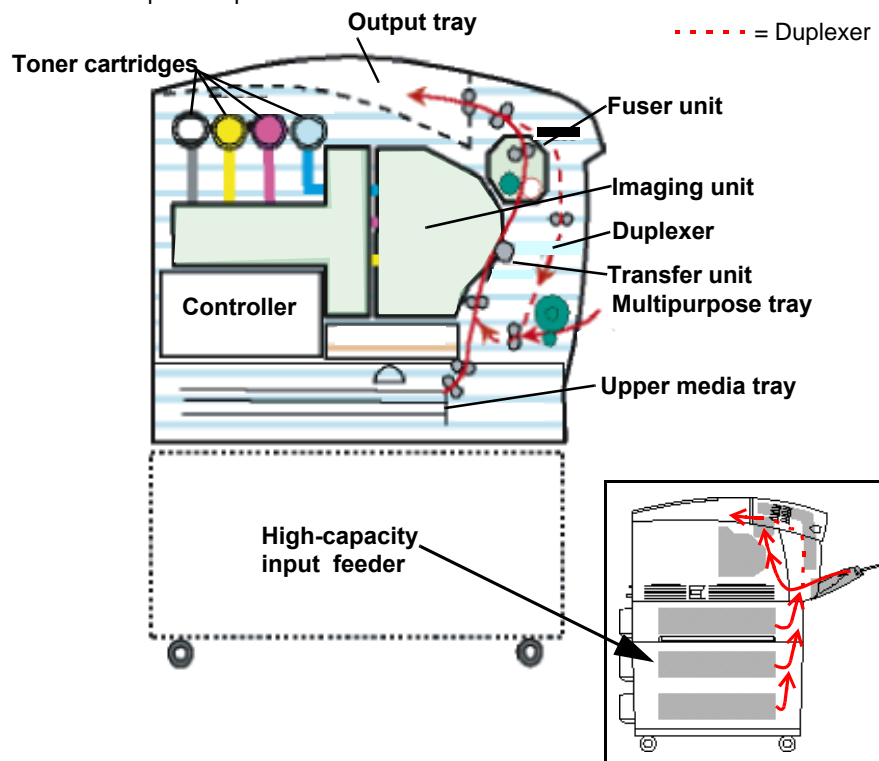


*For automatic jam recovery to work, it is necessary to leave the printer turned on when you remove the jammed media. After the jam is cleared, open and close the front door before printing. Printing will not resume until you do this.*

## Understanding the Media Path

Understanding the printer's media path will help you locate media jams. The media tray is located at the bottom front of the printer. The media is picked from the tray, passed under the imaging and transfer units, passed through

the fuser, and delivered via the paper exit unit to the media exit tray, which is the top of the printer.



## Understanding Media Jam Status Messages

When a jam occurs, the message window on the control panel displays one of four messages: MEDIA JAM DUPLEX, MEDIA JAM FEED, MEDIA JAM FUSER, or MEDIA JAM REGISTRATION. Frequent jams in any area indicate that area should be checked, repaired, or cleaned. Frequent jams may happen if you're using the wrong weight print media.

Message	Location of Jam	Access	Page Reference
MEDIA JAM DUPLEX	Duplex area	Button B	page 72

Message	Location of Jam	Access	Page Reference
MEDIA JAM FEED	Multipurpose tray	Multipurpose tray	page 73
	Tray 1	Upper media tray	page 74
	(Optional) Tray 2 or Tray 3	High Capacity Input Feeder (HCIF)	page 75
	Output tray	Output tray	page 76
	A misfeed jam may be as simple as a sheet of media not being picked, or it may be that the media was picked but not fed properly.		
MEDIA JAM FUSER	Near fuser unit	Button A	page 77
MEDIA JAM REGISTRATION	The registration rollers below the imaging unit	Button A	page 77
MISMATCH JAM	Near the transparency sensor	Button A	page 80

## Clearing Media Jams

- To avoid damage, always remove jammed media gently, without tearing it. Any pieces of media left in the printer, whether large or small, can obstruct the paper path and cause further jams.
- To avoid damage to rollers, always remove jammed media gently.
- Do not reload media that has jammed.

### Attention

**The image is not fixed on the media before the fusing process. If you touch the printed surface, the toner may stick to your hands, so be careful not to touch the print face when removing the jammed media. Make sure not to spill any toner inside the printer.**

Unfused toner can dirty your hands, clothes, or anything else it gets on.

If you accidentally get toner on your clothes, lightly dust them off as much as possible. If some toner remains on your clothes, use cool, not hot water, to rinse the toner off, provided your clothing is washable. If toner gets on your skin, wash it off with water or a neutral detergent.

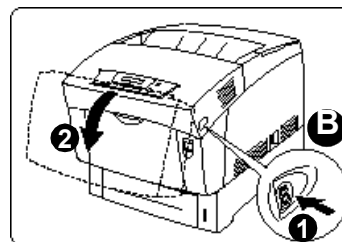
## WARNING!

**If you get toner in your eyes, wash it out immediately with cool water and consult a doctor.**

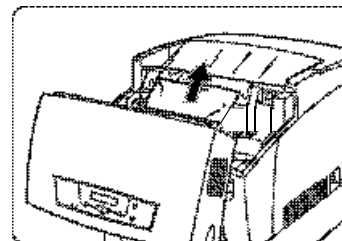
If, after clearing the media jam, the jam message in the control panel window persists, open and close the front cover. This should clear the jam message.

### Media Jam Duplex

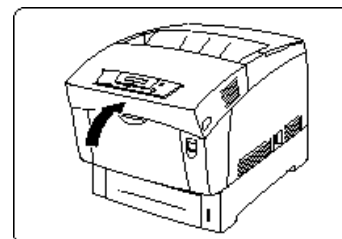
- 1 Open the front cover (button B)  
①, ②.



- 2 Remove the jammed media.



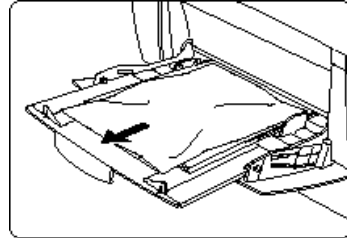
- 3 Close the front cover.



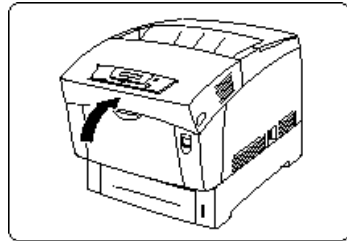
## Media Jam Feed

### Multipurpose Tray Jams

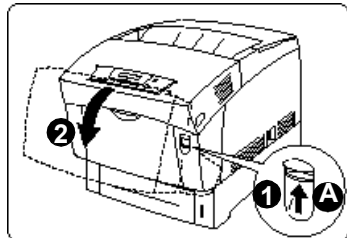
- 1 Remove the jammed media from the multipurpose tray.



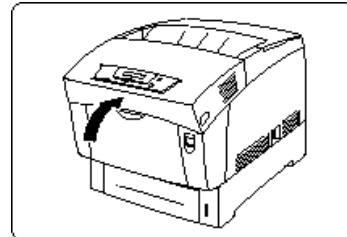
- 2 Close the multipurpose tray.



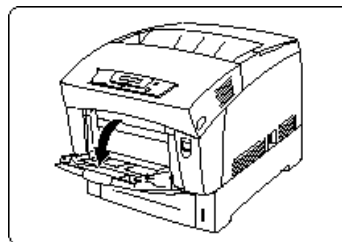
- 3 Open the front cover (button A)  
①, ②.
- 4 Check for media scraps inside the printer.



- 5 Close the front cover.

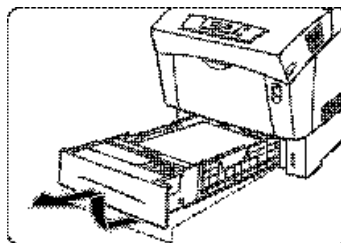


- 6 Open the multipurpose tray and replace its media.

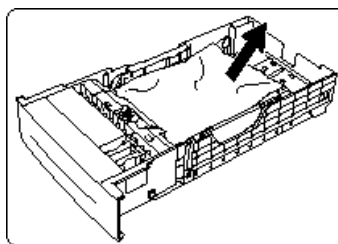


### Upper Media Tray Jams

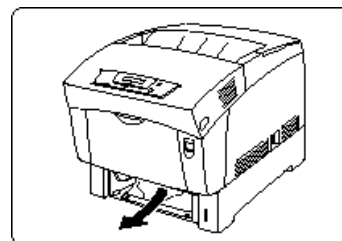
- 1 Remove the media tray.



- 2 Pull out the jammed media.  
*Even up the front edges of the media currently in the tray.*

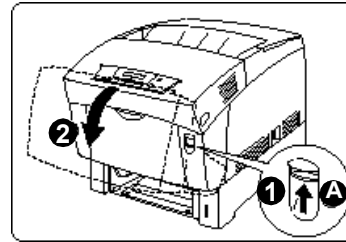


- 3 Remove any remaining media from the printer.





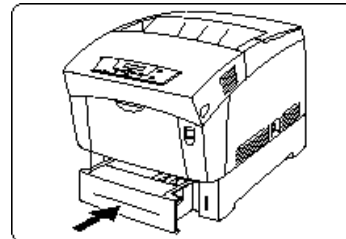
- 4 Open the front cover (button A ①, ②).
- 5 Check for any media scraps inside the printer.
- 6 Close the printer's cover.
- 7 Reinsert the media in the tray printing face up.



### **⚠ Attention**

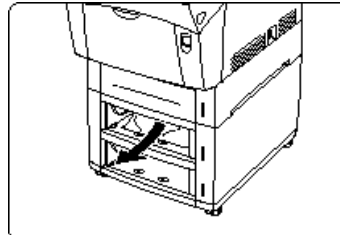
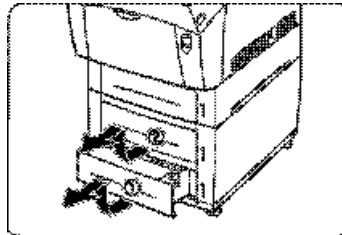
**Make sure the media doesn't exceed the media limit mark. Check to see if the media width guides are correct.**

- 8 Slide the tray(s) back into the printer.  
*The media jam display is cleared.*

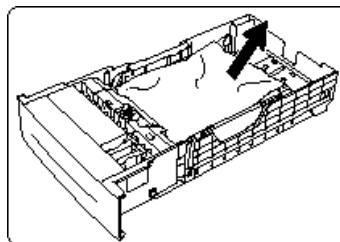


### **HCIF Media Tray(s) Jams**

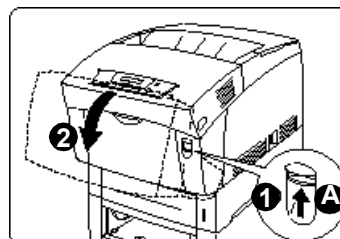
- 1 Remove the media tray(s) and pull out the jammed media.



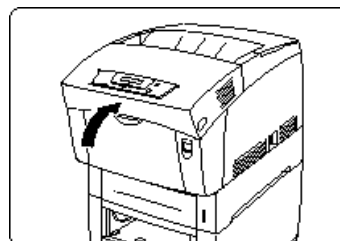
- 2 Pull out the jammed media in the tray(s).



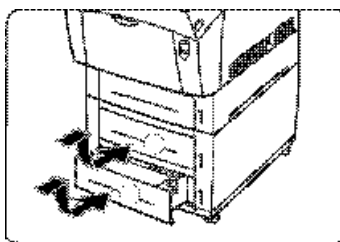
- 3 Open the front cover (button A) ①, ②.  
4 Check for any media scraps inside the printer.



- 5 Close the front cover.  
6 Reinsert the media in the tray.  
*Even up the front edges of the media currently in the tray.*  
*Ensure that the media is lying flat in the tray(s).*  
*Make sure the media doesn't exceed the media limit mark. Check to see if the media width guides are correct.*



- 7 Slide the tray(s) back into the printer.



## Output Tray Jams

Remove jammed media from the output tray by gently pulling it toward you. If, after clearing the media jam, the jam message in the control panel window persists, open and close the front cover. This should clear the jam message.

## Media Jam Fuser

The MEDIA JAM FUSER message covers both the jams near the imaging unit and the fuser unit.

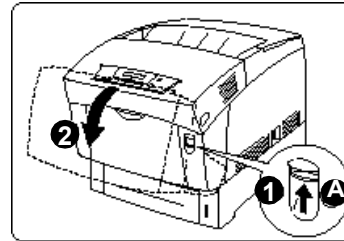
### WARNING!

**The fuser unit is hot! Do not remove a jam in this area until the fuser unit cools.**



### Near Imaging Unit

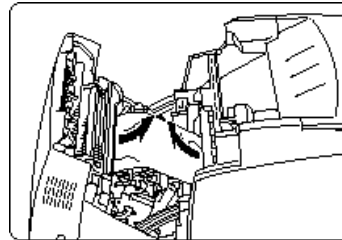
- 1 Open the front cover (button A)  
①, ②.



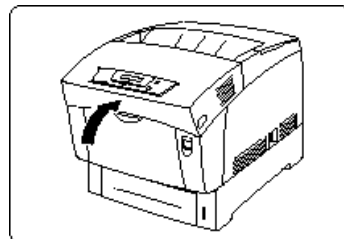
- 2 Remove the jammed media.  
*Remove any torn pieces of paper still in the printer.*

#### **Attention**

**Be careful not to touch the transfer drum while removing jammed media.**



- 3 Close the front cover.

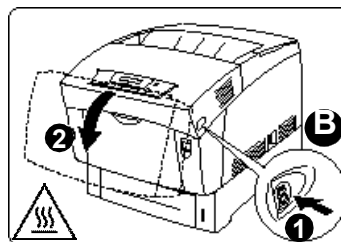


## Near Fuser Unit



*Media that hasn't fully passed through the fuser contains unfused toner that can dirty your hands, clothes, or other items. If you get toner on your hands, wash them in cool water and neutral detergent. If you get toner on your clothes, lightly dust them off as much as possible. If toner remains on your clothes, use cool, not hot water, to rinse the toner off, provided your clothing is washable.*

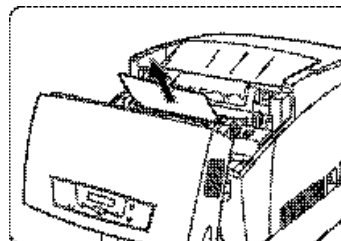
- 1 Open the front cover (button B)  
①, ②.



- 2 Lift both fuser unit levers.

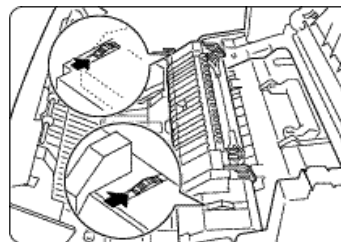


- 3 Remove the jammed media by pulling it toward you.

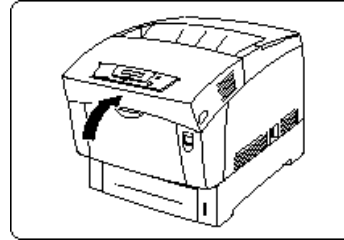


- 4 Push both fuser unit levers completely back.

*If the jammed media was not visible or if you had difficulty removing it, repeat the instructions in "Near Imaging Unit" on page 77.*



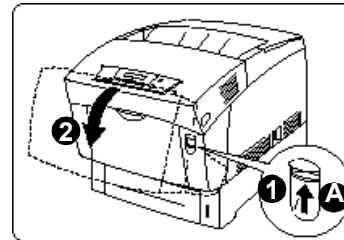
- 5 Close the front cover.



## Media Jam Registration

A registration jam occurs when the media does not pass through the registration sensor in the registration roller unit below the imaging unit.

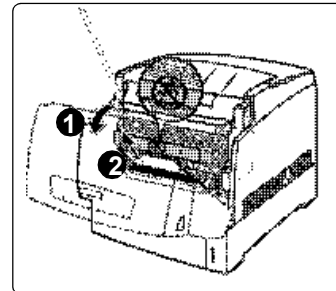
- 1 Open the front cover (button A)  
①, ②.



*Locate the registration rollers (one is black and one is metallic).*

- 2 Remove the jammed media from the registration rollers ①.

*Remove any torn pieces of paper still in the printer ②.*

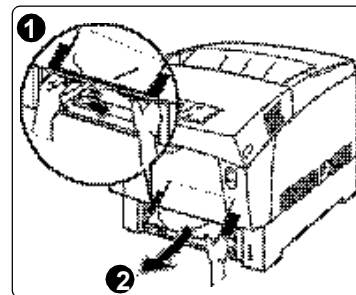


### **Attention**

**Be careful not to touch the transfer drum while removing jammed media.**

- 3 If the jam message is still displayed, remove each media tray.

- a Release the two hooks securing the chute assembly ① inside the tray compartment.
- b Turn the chute assembly 90 degrees toward the rear of the printer.
- c Remove the jammed media ②.



- d Close the chute assembly.
- e Repeat for all media trays, if necessary.
- 6 Slide the tray(s) back into the printer.
- 7 Close the front cover.

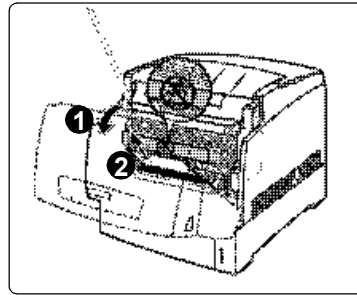
## Mismatch Jam

A MISMATCH JAM may occur if the transparency sensor in the printer detects the wrong media type.

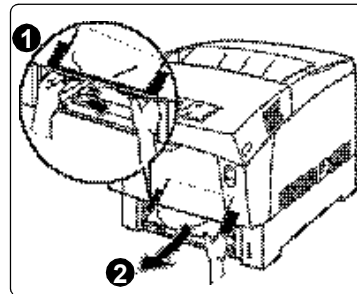
- 1 Open the front cover (button A) ①, ②.
- 2 Remove the jammed media.  
*Remove any torn pieces of media still in the printer.*

### Attention

**Be careful not to touch the transfer drum while removing jammed media.**



- 3 If the jam message is still displayed, slide open and remove each media tray.
  - a Release the two hooks securing the chute assembly ① inside the tray compartment.
  - b Turn the chute assembly 90 degrees toward the rear of the printer.
  - c Remove the jammed media ②.
  - d Close the chute assembly.
  - e Repeat for all media trays, if necessary.
- 6 Slide the tray(s) back into the printer.
- 7 Close the front cover.



## Solving Problems

### Media Jams and Media Transport Problems



*Frequent jams in any area indicate that area should be checked, repaired, or cleaned. Repeated jams may also happen if you're using unsupported print media.*

Symptom	Cause	Solution
Several sheets go through the printer together.	The front edges of the media are not even.	Remove the media and even up the front edges, then reload it.
	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
	Too much static electricity is present.	Do not fan large quantities of transparency media.
Printer pulls media from the wrong tray.	Selected tray is out of media, and tray chaining is activated.	Choose Off in the Operator Control/Chain Inpubins menu. Load media in the correct tray.
	Printer has not recognized a custom size in the MPT tray and pulls the media from the upper tray.	Set Custom Size in the Operator Control/Multipurpose Sz menu.
Media jam message stays on.	Front cover needs to be opened and closed again to reset the printer.	Open and close the printer's front cover again.
	Some media remains jammed in the printer.	Recheck the paper path and make sure you have removed all of the media jams.

Symptom	Cause	Solution
Media is jamming.	The wrong media tray is used.	Envelopes, labels, postcards, and Thick 3 can be printed only from the multipurpose tray.
	The media is not correctly positioned in the tray.	Remove the jammed media and reposition the media properly in the tray.
	The number of sheets in the tray exceeds the maximum allowed.	Remove the excess media and reload the correct number of sheets in the tray.
	The width regulation guides are not correctly adjusted to the media size.	Adjust the regulation guides in the tray to match the size of the media.
	Warped or wrinkled media is loaded in the tray.	Remove the warped or wrinkled media and replace it with new media.
	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
	Unsupported media (wrong size, thickness, coating, type, etc.) is being used.	Use media that is approved for your printer. Refer to "What are the media types supported?" on page 37.
	The recommended transparency (OHP) or label paper is facing the wrong way in the tray.	Load the transparencies or labels according to the manufacturer's instructions.
	Coated transparency media has been used.	Use uncoated transparency media that is approved for your printer.
	Multiple sheets of transparency (OHP) media are collecting static electricity in the tray.	Remove the OHP media and load it in the tray one sheet at a time. Do not fan large quantities of transparencies before loading them.



Symptom	Cause	Solution
Media is jamming (Cont.).	Transparency (OHP) media being fed from the upper or optional trays is not feeding correctly.	Try loading about 100 pages of plain paper first in the tray to give more height to the transparency stack to reach the feed rollers.
Duplex unit jams.	The wrong media is being used.	Use media that is approved for your printer. Refer to "What are the media types supported?" on page 37.
		Plain paper and stock up to 28 lb bond (105 g/m <sup>2</sup> ) can be autoduplexed. For heavier weights, manual duplexing is required. To manually duplex, remove the media, flip it over, and reload it.
		We recommend not mixing media types in your media tray. For the exception, see "Transparency (OHP) media being fed from the upper or optional trays is not feeding correctly." on page 83.
		Do not duplex envelopes, glossy stock heavier than 28 lb bond (105 g/m <sup>2</sup> ), labels, thick stock heavier than 28 lb bond (105 g/m <sup>2</sup> ), or transparencies.
	Media may still be jammed.	Recheck the paper path and make sure you have removed all of the media jams. Open and close the front door to reset the printer.
	If you are manually duplexing, media jams may occur if the printed sheet(s) reinserted are not entirely flat.	Remove the jammed media, then remove the media from the tray and flatten it out.

## Other Problems

Symptom	Cause	Solution
Printer power is not on.	The power cord is not correctly plugged into the outlet.	Set the power switch off (O position), then remove the power cord from the outlet and plug it back in, then set it back to the on (I) position.
	The power switch has not been pressed.	Set the power switch to the on (I) position.
	The power switch is not correctly turned on (I position).	Set the power switch to the off (O) position, then set it back to the on (I) position.
	Something is wrong with the outlet you are using for the printer.	Plug another electrical appliance into the outlet and see whether it operates properly.
	The printer is connected to an outlet with a voltage or frequency that does not match the printer specifications.	Use a power source with the specifications listed in appendix A of the <i>User's Guide</i> .
"Printer is not responding" is displayed in the print monitor.	The printer is in energy-saving mode.	It takes a little time for printing to start if the printer is in energy-saving mode. You can change the number of minutes before the printer switches to power-saving mode in the Administration/Engine/Energy Saver menu. If you do not want to use this mode, disable it in the Administration/Engine/Energy Saver menu.
Printer takes too long to start when you are replacing the imaging unit.	The printer takes approximately 6 minutes to warm up when a new imaging unit is installed.	Wait. No action needed.

Symptom	Cause	Solution
Printer stops and displays the message INVALID IMAGING UNIT.	The printer has detected a nongenuine T8016 imaging unit.	To resume printing and to prevent permanent damage to the printer, replace the imaging unit with a genuine T8016 imaging unit. If you still receive this error, contact Tally Support.
Not all pages print.	The printer has the wrong kind of cable, or the printer is not configured for the correct cable and port.	Check your cable.
	The Cancel key was pressed.	Make sure no one pressed the Cancel key while your job was printing.
	The media tray is empty.	Check the message window to see if the tray you are using is out of media.
Printer resets or turns off frequently.	The power cord is not properly connected to the AC outlet.	Turn off the unit, confirm that the power cord is properly connected to the AC outlet, and turn the unit back on.
	A system error occurred.	Contact Tally Support with the error information.
Printing takes too much time.	The printer is set to a slower printing (Thick Stock or Transparency media types).	It takes more time to print with special media types, such as Transparency or Thick 2. When using regular paper, make sure that the media type is set to Plain Paper in the driver.
	The printer is set to energy-saving mode.	It takes a little time for printing to start in energy-saving mode. If you do not want to use this mode, disable it.
	The printer memory is insufficient.	Add more memory.
	The job is very complex.	Wait. No action needed.



Symptom	Cause	Solution
You are experiencing problems duplexing.	Media or settings are not correct.	Make sure that you are using the correct media. Do not duplex envelopes, glossy stock heavier than 28 lb bond (105 g/m <sup>2</sup> ), labels, postcards, thick stock heavier than 28 lb bond (105 g/m <sup>2</sup> ), or transparencies.
		Make sure that your document has more than one page.
		In the printer driver (Properties/Layout/Duplex Options), choose Short Edge (flipped as on a clipboard) or Long Edge (flipped as in a loose-leaf notebook). Make sure that you are using correct media.
The printing is on the wrong side of the media.	The printer is set to autoduplexing and you are trying to duplex manually.	If you are manually duplexing, in the printer driver (Properties/Layout) choose Simplex.
	The media is not installed correctly.	From the upper or optional trays, load the media printing-side up, from the multi-purpose tray, load the media printing-side down.
Characters print incorrectly.	The fonts are set incorrectly on your printer driver.	Check your driver (Properties/Fonts tab) to make sure you are using the correct fonts (such as TrueType fonts).
You hear unusual noises.	The printer is not level.	Put the printer on a flat, hard, level surface not to exceed $\pm 5^\circ$ slant in any direction.
	The media tray is not installed correctly.	Remove the media tray that you are printing from and reinsert it completely into the printer.
	There is a foreign object stuck inside the printer.	Turn off the printer and remove the object. If you cannot remove it, contact Tally.

Symptom	Cause	Solution
The printer pauses periodically.	The image unit pauses to perform an automatic cleaning rotation after every page of one-page simplex jobs and pages longer than 14 inches (355.6 mm), and between pages of multipage jobs, depending on the amount of processing required between pages.	Wait. Printer automatically resumes.  <i>This process is provided to ensure reliable printer operation with optimum output quality. See “Internal Cleaning Cycles” on page 60 for more detailed information.</i>
The printer goes into power-saving mode.	The printer automatically switches to power-saving mode after one hour of inactivity (default).	You can change the number of minutes before the printer switches to power-saving mode in the Administration/Engine/Energy Saver menu.




Symptom	Cause	Solution
The printer is not receiving data from the computer. (The <i>Data indicator</i> doesn't blink after a file is sent.)	The printer is not on line.	Put the printer on line and verify that the message window displays <code>IDLE</code> .
	The emulation has been changed from Auto Detect to an emulation that doesn't match the file you are sending.	Print a status page.
	The port setting is incorrect.	For Ethernet or parallel connections, set the port to Enabled.
	When the parallel cable is set to Interactive (the default), and the parallel cable is unplugged then plugged back in, communication was lost.	Set the parallel cable to Non-Interactive mode in the Administration/Communications/Parallel/Mode menu.
Too many status pages print.	Your printer is set to print the multiple-page Advanced Status Page instead of the one-page Standard Status Page.	Select the type of status page through the Administration/Special Pages/Status Page Type menu on the control panel.
After the <code>TONER LOW</code> message appears and you have replaced the toner cartridge, the statistics page still displays 0%.	The statistics need to be reset.  After replacing toner, you must print several pages before the printer recognizes the "new" toner cartridge.	After replacing the toner, reset the statistics on the control panel (Operator Control/Consumables/Item Replaced/X) menu.  Print several pages.

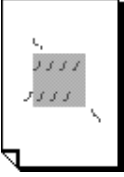
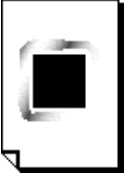
Symptom	Cause	Solution
Nothing is printed.	There is a Keypad Locked, a media jam, or other message on the control panel.	Handle according to the message displayed. For example, if the keypad is locked, check to see if the printer's in Network Mode and someone else has opened a telnet session to it.
	The driver is not set correctly.	Select the proper driver media setting.
	The imaging unit is old or damaged.	Remove the imaging unit and check for damage. If necessary, replace it.
	The media is moist from humidity.	Adjust the humidity for paper storage. Remove the moist media and replace it with new, dry media.
	The AC outlet's voltage or frequency that does not match the printer specifications.	Use a power source with the proper specifications.
	Several sheets are being fed at the same time.	Remove the media from the tray and check for static electricity. Fan plain paper and other media (but do not fan large amounts of transparencies), and replace it in the tray.
	Media is not set properly in the media tray(s).	Remove the media, tap it to straighten it out, return it to the media tray, and realign the media guides.
	Media is jammed inside the printer.	Remove any jammed media from the printer.
	There is not enough memory or your PS Wait Timeout is incorrect to print directly from PDF.	Increase your memory and the PS Wait Timeout. See "PDF File Printing" on page 67.




## Printing Quality


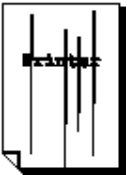
Symptom	Cause	Solution
Vertical white lines appear in image. 	The imaging unit, transfer roller, or fuser unit are misinstalled, old, or damaged.	Confirm the proper installation of the items, and check them for damage. If necessary, replace them.
Image is too light; there is low image density. 	The media is moist from humidity.	Remove the moist media and replace with new, dry media.
	One or more toner cartridges are defective.	Remove the toner cartridges and check for damage. If necessary, replace them.
	The imaging unit is old or damaged.	Remove the imaging unit and check for damage. If necessary, replace it.
	Media type may be set incorrectly.	Envelopes, glossy stock (set as Thick 2 or Thick 3), labels, and thick stock have to be set in the correct mode. Use approved media. See "Media" on page 36.
	The printer is connected to an outlet with a voltage or frequency that does not match the printer specifications.	Use a power source with the proper specifications.
	Driver settings are not correct.	Confirm that you are using the correct driver settings.
	Media is the wrong size.	Check with your documentation to confirm the correct media size and type.
	Unsupported media is being used.	Use approved media. See "Media" on page 36.





Symptom	Cause	Solution
Irregular print or mottled image appears.  	The media is moist from humidity or having water spilled on the paper supply.	Remove the moist media and replace it with new, dry media.
	The transfer roller or fuser unit may be misinstalled or defective.	Confirm the proper installation of the items, and check them for damage. If necessary, replace them.
	Unsupported media is being used.	See "Media" on page 36.
Media is wrinkled.  	The media is moist from humidity or having water spilled on the paper supply.	Remove the moist media and replace it with new, dry media.
	The transfer roller or fuser unit may be misinstalled or defective.	Confirm the proper installation of the items, and check them for damage. If necessary, replace them.
	Unsupported media is being used.	Use approved media. See "Media" on page 36.
Blotted printing occurs.  	The media is moist from humidity or having water spilled on the paper supply.	Remove the moist media and replace it with new, dry media.
	The transfer roller or fuser unit may be misinstalled or defective.	Confirm the proper installation of the items, and check them for damage. If necessary, replace them.
	Unsupported media is being used.	Use approved media. See "Media" on page 36.

Symptom	Cause	Solution
<p>Small marks occur in or near halftone images.</p> 	The media is too dry.	Remove the dry media and replace it with new media. Store media wrapped and in a relative humidity of at least 30%.
	The transfer roller or fuser unit may be misinstalled or defective.	Confirm the proper installation of the items, and check them for damage. If necessary, replace them.
	Unsupported media is being used.	Use approved media. See "Media" on page 36.
<p>Smudges or shadows occur around images with dense black printing.</p> 	The media is too dry.	Remove the dry media and replace it with new media. Store media wrapped and in a relative humidity of at least 30%.
	The transfer roller or fuser unit may be misinstalled or defective.	Confirm the proper installation of the items, and check them for damage. If necessary, replace them.
	Unsupported media is being used.	Use approved media. See "Media" on page 36.

Symptom	Cause	Solution
<p>Entire sheet is printed in black or color.</p> 	The imaging unit is old or damaged.	Remove the imaging unit and check for damage. If necessary, replace it.
	The printer is connected to an outlet with a voltage or frequency that does not match the printer specifications.	Use a power source with the proper specifications.
<p>The image comes off when rubbed.</p> 	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
	Unsupported media is being used.	Use approved media. See "Media" on page 36.
	The media type may be incorrectly set.	Envelopes, glossy stock (set as Thick 2 or Thick 3), labels, and thick stock have to be set in one of the Thick Stock modes.
<p>Image defects or smudges occur in same place on every page.</p> 	The imaging unit, transfer roller, or fuser unit is old or defective.	Remove the items and check for damage. If necessary, replace them.
	The media path is dusty or dirty.	Print several blank sheets of media.

Symptom	Cause	Solution
Abnormal areas (black or white spots) appear.  	The imaging unit may be old or damaged.	Remove the imaging unit, and check for damage. If necessary, replace it.
	Unsupported media is being used.	Use approved media. See "Media" on page 36.
Vertical streaking appears.  	The imaging unit, transfer roller, or fusing unit may be misinstalled or defective.	Confirm the proper installation of the items, and check them for damage. If necessary, replace them.

Symptom	Cause	Solution
<p>Colors are not registering properly; colors are mixed or have page-to-page variation.</p> 	The color registration or calibration is not correct.	At setup, and any time the printer is moved, adjust the side-to-side (scan direction) color registration. See “Color Registration” on page 124.
<p>The image is offset or slanted.</p> 	Media is not set properly in the media tray(s).	Remove the media, tap it to straighten it out, return it to the media tray, and realign the media guides.
	Unsupported media is being used.	Use approved media. See “Media” on page 36 for a complete list of approved media.
	Media is jammed inside the printer.	Remove any jammed media from the printer.
	The printer is not level.	Put the printer on a flat, hard, level surface not to exceed $\pm 5^\circ$ slant.
	The paper path is not clean.	Remove any tape or adhesive that may have become lodged in the paper path.
	Transparency (OHP) media being fed from the upper or optional trays is not feeding correctly.	Try loading about 100 pages of plain paper first in the tray to give more height to the transparency stack to reach the feed rollers.

## Status, Error, and Service Messages

Status, error, and service messages are displayed in the control panel message window. They provide information about your printer and help you locate many problems. When the condition associated with a displayed message has changed, the message is cleared from the window.



*Status messages are not displayed while the printer is off line.*

### Status and Error Messages

This message...	means...	do this...
<COLOR> TONER EMPTY	The <COLOR> toner cartridge is empty.	Replace the toner cartridge.  Open and close the printer's front door.  Reset the consumables count in the Operator Control/Consumables/Item Replaced/<COLOR> Toner menu.
<COLOR> TONER LOW	The <COLOR> toner cartridge is low. Printing continues even though the warning appears. Approximately 100 letter/A4 pages (at 5% coverage) after detecting that toner in a cartridge is low, the printer displays <COLOR> TONER EMPTY in the message window, and the printer stops.	The color gradually fades, so replace the toner cartridge as soon as possible.  Do not send very large print jobs after the TONER LOW message is displayed.  Reset the consumables count in the Operator Control/Consumables/Item Replaced/<COLOR> Toner menu.
<COLOR> TONER MISSING	The <COLOR> toner cartridge is not installed properly.	Install the indicated toner cartridge.

This message...	means...	do this...
<X> LIFE LOW	The indicated item <X> is low, such as the transfer unit.	Replace the indicated item. If necessary, reset the consumables count in the Operator Control/Consumables/Item Replaced menu. <i>The imaging unit will automatically reset its consumables count.</i>
<X> MISSING	The indicated item <X> is missing, such as the fuser or transfer unit.	Replace the indicated item. If necessary, reset the consumables count in the Operator Control/Consumables/Item Replaced menu. <i>The imaging unit will automatically reset its consumables count.</i>
ACC DISABLED	The accounting option selected is now in effect.	No action needed.
ACC ENABLED		

This message...	means...	do this...
ACC FILE 95% FULL ACC FILE 90% FULL ACC FILE 85% FULL ACC FILE 80% FULL	The Job Accounting File is 80, 85, 90, or 95% full.	<p>This message should be taken care of immediately because it may be masking another problem.</p> <p>Once the accounting message is cleared, can you see IDLE? If IDLE is not there, you will see another error message displayed. Attend to the message that appears.</p> <p>If you want accounting enabled, copy the job accounting and paper accounting files to floppy disk(s), or transfer them to your host computer using ftp (if available). Then reset the accounting files so that new jobs can be accepted. If you don't want to use accounting, you can disable it.</p>
ACC FILES GOT REMOVED	The accounting option is disabled and the accounting files are empty. After a reset, the files are removed. This prevents you from wasting disk space with empty accounting files.	No action needed.



This message...	means...	do this...
ACC FILES NOT EMPTY SHRUNK TO %D	An attempt to reduce the size of the accounting files has been made unsuccessfully because the size of files is bigger than the space required.	Reset the accounting files.
ACC <X> FILE FULL	The job or paper accounting file is full (<X> identifies the file).	<p>This message should be taken care of immediately because it may be masking another problem.</p> <p>If you want accounting enabled, copy the job accounting and paper accounting files to floppy disk(s), or transfer them to your host computer using ftp (if available). Then reset the accounting files so that new jobs can be accepted. If you don't want to use accounting, you can disable it.</p>
ACC_GETSTATUSREC; CODE=%D, RESETTING ACC TO INITIAL STATE	The accounting files have been reset.	No action needed.
INSERT <INPUT> BIN	The <INPUT> (specified tray) is not inserted correctly.	Adjust the tray.
CANCEL <N>	One or more of the print jobs <N> in the print queue are being canceled.	Press Select for all jobs with a printing, interpreting, spooled, or terminating status to be completely removed from the system.

<b>This message...</b>	<b>means...</b>	<b>do this...</b>
CANCELLING JOB	The Cancel key has been pressed, and the print job in the print queue is being canceled.	Press Select and the job in the print queue will be canceled.
CMM ERROR <X>	The color profile requested is not on the printer.	Install the correct CMM profile or request another CMM profile from the application.
CREATED FILE	The accounting file has been created.	No action needed.
CREATING XXXXXXXXXXXXX FILE, WAIT...	The specified accounting file is created when accounting is enabled and the files are not in existence or these files are created following a Reset Accounting (XXXXXXXXXXXXX represents the Job Accounting or Paper Accounting file).	Wait. No other action needed.
ADC SENSOR DUSTINESS <X>	The Automatic Density Control (ADC) sensor is dusty and an error or warning has been indicated.	Clean the density sensor. See “How do I clean the density sensor?” on page 62.
END JOB	The Cancel key has been pressed and the End Job option selected.	Press Select to provide an end-of-job indicator for a print job that does not have one.

This message...	means...	do this...
ENERGY SAVER	The printer is in energy saver mode to reduce power consumption during periods of inactivity. When a print job is received, the printer returns to normal power within 90 seconds. While in "deep sleep," the printer's message window will not display operator status such as door- and tray-open messages. The printer remains in "deep sleep," until a print job is received, or until the printer is manually switched from offline to online.	No action needed.
EXTENDED ACC FILE SIZE BY <%D> KB	The <%D> (size of the non-empty accounting file) has been increased successfully.	No action needed.
FRONT COVER OPEN	The cover is open and must be closed.	Close the cover.
FUSER UNIT MISSING	The fuser is not fully seated.	Make sure the fuser is fully seated.
IDLE	The printer is on line, but no jobs are in process.	No action needed.
IMAGING UNIT LIFE LOW	The imaging unit life is low.	Call Tally for service. <i>When replaced, the imaging unit will automatically reset its consumables count.</i>

This message...	means...	do this...
IMAGING UNIT MISSING	The imaging unit is missing.	Make sure that the imaging unit is correctly installed.
INITIALIZING	The printer is initializing.	Wait. No other action needed.
	The printer is warming up and getting ready to go on line.	Wait. No other action needed.
INVALID <X>	The item <X> is not valid, such as disk selected or paper information.	Make sure you are inputting or choosing the valid information or value.
INVALID IMAGING UNIT	The printer has detected a nongenuine T8016 imaging unit.	To resume printing and to prevent permanent damage to your printer, replace the imaging unit with a genuine T8016 imaging unit. If you are using a genuine imaging unit and still receive this error, contact Tally Support.
MEDIA JAM DUPLEX	Media has jammed in the duplexer.	Locate and remove the jam. Open and close the front door to reset the printer.
MEDIA JAM FEED	Media has jammed while being pulled from the specified tray.	
MEDIA JAM FUSER	Media has jammed leaving the fuser area.	
MEDIA JAM REGISTRATION	Media has jammed in front of the imaging unit.	

This message...	means...	do this...
MEDIA TYPE MISMATCH	The media detected in the tray doesn't match the media size or type setting.	Change the media in the tray or change the media size or type setting.
MISMATCH JAM	Media has jammed near the transparency sensor.	Locate and remove the jam. Open and close the front door to reset the printer.
OUTPUT BIN FULL	The media has exceeded the limit (such as over 250 sheets of 20 lb [75 g/m <sup>2</sup> ] bond) in the output bin.	Remove the media from the output bin.
PRINTING STATUS	A status page is printing.	Wait until after the status page prints and the message clears.
PUT <SIZE> PAPER IN <ANY> BIN	The Operator Control/Chain Inputbins is set to Off and the displayed tray is empty. Refill it with the specified size media. <SIZE> is the media size detected by the engine, and <ANY> is the empty tray.	Refill the tray with the specified size media.
PUT <TYPE MEDIA> IN <INPUT> BIN	Operator Control/Chain Inputbins is set to On and a chained tray is empty.	Refill the tray with the specified type media.
PUT <X> IN INPUT <Y>	The <X> specified media is not in the input tray <Y>.	Refill the tray with the specified type media.

<b>This message...</b>	<b>means...</b>	<b>do this...</b>
REPLACE <X>	The specified item <X> needs to be replaced, such as the transfer unit, and the imaging unit.	Call Tally for replacement of the specified item.
RESETTING ACCOUNTING	The reset accounting operation is in process.	Wait. No other action needed.
SYS UPDATE ERROR <X>	The indicated error <X> has been reported.	Verify the update file and send it again or check with Tally.
TRANSFER UNIT MISSING	The transfer unit isn't installed correctly.	Remove and reinstall the transfer unit.
WAITING FOR IDLE	An active job is in process. Access to the menu is not allowed until the job is finished.	Wait until the print job is finished and the printer goes idle.
WARMING UP	The printer is warming	Wait. No other action needed.

## Service Messages

A service message sometimes occurs as a result of an unusual combination of events, not because of an actual problem. When the printer stops and a service message displays in the message window, turn the printer off and then back on. This often clears the service message indicator, and printer operation resumes. Always try this before making a service call.

This service message...	means...	do this...
CALL FOR SERVICE <X>	An error has been detected with the item indicated <X> in the service message.	Reboot the printer. This often clears the service message indicator, and printer operation can resume. If the condition persists, contact Tally.

## HP-GL Error Codes and PCL Error Codes

The following tables list error codes that could appear on the printer message window when running the HP-GL, PCL or PCLXL emulation.

HP-GL	
Error Code	Description
0	Not enough memory for job.
1	Too many transformations.
2	Math error.
3	Job aborted.
4	Instruction not recognized.
5	Wrong number of parameters.
6	Out of range parameter, or illegal character.
7	Not used.
8	Unknown character set.
9	Position overflow.
10	Buffer overflow.
11	Not used.

PCL	
Error Code	Description
0	Not enough memory for job.
1	State lost.
2	Math error.
3	Job aborted.
4	Out of memory for macros.
5	Disk full. Cannot store fonts.
6–13	Internal error 1–8.

PCLXL	
Error Code	Description
0	Not enough memory for job.
1	Math error.
2–7	Internal error 1–6



## PostScript Errors

If your printer is having trouble printing when using PostScript emulation, you should turn on the Error Handler in the control panel menu. Error Handler is a diagnostic tool that identifies PostScript errors encountered during a print job.

<b>Menu</b>	Administration/Startup Options/Do Error Handler
<b>Choices</b>	Yes—Load the Error Handler on reboot. No—Don't load the Error Handler on reboot.
<b>Default</b>	No
<b>Notes</b>	Refer to the <i>PostScript Language Reference Manual Third Edition</i> (Adobe Systems Incorporated, Reading, PA: Addison-Wesley, 1999, ISBN 0-201-37922-8) for information on PostScript errors.  You must reboot the printer after turning on the error handler for it to take effect.

## Additional Assistance

If you've followed all of the instructions in this guide and still have problems you can't solve, call Tally.



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## ***Installing Other Accessories***

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# 6

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## Introduction

### Attention

It's very important to protect the printer controller board and any associated daughterboard or module from electrostatic damage while performing any task involving the controller board.

This chapter provides information about the following accessories:

<b>Dual In-Line Memory Modules (DIMMs) (two available slots)</b>	Additional memory must be 32, 64, 128, or 256 MB PC-100 Compliant SDRAM DIMMs, up to a maximum of 512 MB.
<b>High-capacity Input Feeder (HCIF)</b>	With two 500-sheet media trays
<b>Media Tray, Standard Upper 250 Sheet</b>	Purchasing extra trays may be convenient when changing media formats and/or when media qualities vary.
<b>Media Tray, HCIF 500 Sheet</b>	

## Antistatic Protection

### Attention

It's very important to protect the printer controller board and any associated daughterboard or module from electrostatic damage while performing any task involving the controller board.

If an antistatic wrist strap is provided in your printer option kit, attach one end of it to your wrist and the other end to any convenient electrical ground (for example, the bare metal chassis of equipment, as on the back of a computer, that is plugged in but turned off). Never attach the wrist strap to any piece of equipment with an electrical current present. Turn off all power switches first. Plastic, rubber, wood, painted metal surfaces, and telephones are not acceptable grounding points. The printer isn't an acceptable grounding point either because it must be unplugged before you perform this task.

If you don't have an antistatic wrist strap, discharge your body's static electric charge by touching a grounded surface before you handle any printer boards or components and before removing the controller board. Also avoid walking around after grounding yourself.

## Dual In-Line Memory Modules (DIMMs)

Dual in-line memory modules (or DIMMs) are compact circuit boards with surface-mount memory chips.

Your T8016 printer comes with 256 MB SDRAM printer memory.

However, you can upgrade the T8016 to a maximum of 512 MB of RAM through the installation of additional DIMMs. Two DIMM slots are available. Additional memory must be 64, 128, or 256 MB, PC-100 Compliant SDRAM DIMMs.

Additional memory allows you to download more fonts and increase the printer's buffer (area where data sent from the computer is stored while waiting to be printed). The amount of RAM installed in your printer governs which resolutions can be used with each media size.

You may also need additional memory (DIMMs) for the following:

- To print at maximum performance
- To print complex graphics or complex PostScript documents
- For increased collation performance
- For increased spooling performance

### How Much Memory Do You Need?

Check the startup page to make sure the printer has enough RAM installed.

To allocate the default amount of memory to the memory clients, use the Memory/Quick Config menu to choose the correct resolution and paper size for your printing.



*Quick Config is not displayed if a hard disk is installed; use Manual Config.*

### Basic Functionality

Quality	Monochrome				Color			
	Simplex		Duplex		Simplex		Duplex	
	S/Q	Fine	S/Q	Fine	S/Q	Fine	S/Q	Fine
Letter/ A4	256 MB							
Legal								
Notes:	S = Standard, Q = Quality							

## Maximum Performance

	Monochrome				Color			
	Simplex		Duplex		Simplex		Duplex	
Quality	S/Q	Fine	S/Q	Fine	S/Q	Fine	S/Q	Fine
Letter/ A4	256 MB							256 MB
Legal								288 MB
Notes:	S = Standard, Q = Quality							

## Installation

### Attention

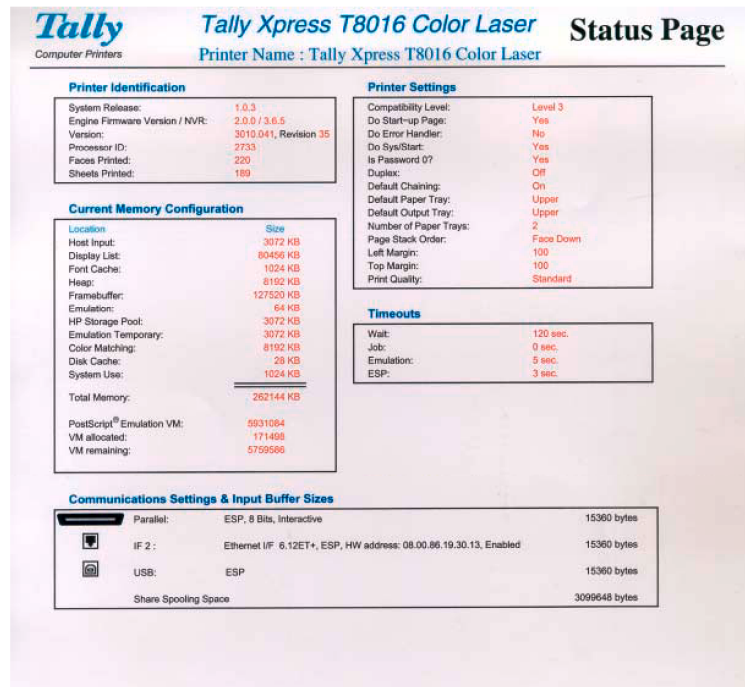
It's very important to protect the printer controller board and any associated circuit boards from electrostatic damage. Before performing this procedure, review the antistatic caution on page 110. In addition, always handle circuit boards by the edges only.

- 1 If you are not to the point when you are able to print an advanced status page (with the control panel's **Print Status?** button) yet, skip to step 2.

*If you have previously installed your printer and have confirmed that it is printing, print an advanced status page in case you need to restore any current memory settings after the DIMM installation.*



*Installing DIMMs automatically restores memory defaults. If your memory settings are specific to your environment, print an advanced status page before installing DIMMs, so you can recover the current memory settings.*



**Tally** Computer Printers **Tally Xpress T8016 Color Laser** **Status Page**  
Printer Name : Tally Xpress T8016 Color Laser

Printer Identification	
System Release:	1.0.3
Engine Firmware Version / NVR:	2.0.0 / 3.6.5
Version:	3010.041, Revision 35
Processor ID:	2733
Faces Printed:	220
Sheets Printed:	189

Current Memory Configuration	
Location	Size
Host Input:	3072 KB
Display List:	80456 KB
Font Cache:	1024 KB
Heap:	8192 KB
Framebuffer:	127520 KB
Emulation:	64 KB
HP Storage Pool:	3072 KB
Emulation Temporary:	3072 KB
Color Matching:	8192 KB
Disk Cache:	29 KB
System Use:	1024 KB
Total Memory:	262144 KB
PostScript® Emulation VM:	9931064
VM allocated:	171498
VM remaining:	5709586

Printer Settings	
Compatibility Level:	Level 3
Do Start-up Page:	Yes
Do Error Handler:	No
Do Sleep/Start:	Yes
Is Password ?	Yes
Duplex:	Off
Default Chaining:	On
Default Paper Tray:	Upper
Default Output Tray:	Upper
Number of Paper Trays:	2
Page Stack Order:	Face Down
Left Margin:	100
Top Margin:	100
Print Quality:	Standard

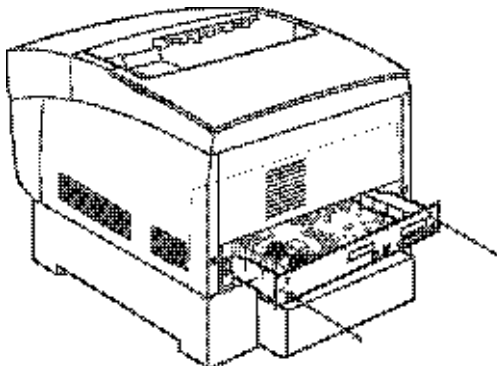
Timeouts	
Wait:	120 sec.
Job:	0 sec.
Emulation:	5 sec.
ESP:	3 sec.

Communications Settings & Input Buffer Sizes		
Parallel:	ESP, 8 Bits, Interactive	15360 bytes
IF 2:	Ethernet I/F 6.12ET+, ESP, HW address: 08.00.86.19.30.13, Enabled	15360 bytes
USB:	ESP	15360 bytes
Share Spooling Space		3099648 bytes

- 2 Turn off the printer and disconnect the power cord and all interface cables.

- 3** Remove the controller board from the printer.

*Loosen two screws, one on each end of the I/O connector panel, and, using the tab on the lower side of the connector panel, pull the controller board from the printer.*



- 4** Position the controller board on a flat surface so the controller board lies flat and the I/O connector panel is facing you.

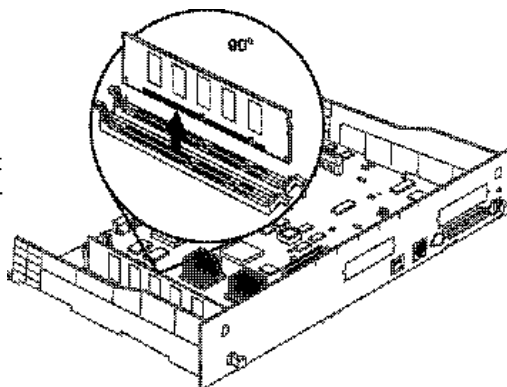


*If you want to install more memory, you have to exchange one or more DIMMs for DIMMs with a greater memory capacity.*

- 5** If you need to remove a DIMM before installing one, remove it as follows; otherwise, skip to step 6.

**a** Using both thumbs, pull the latches (one on each side of the DIMM connector) outward.

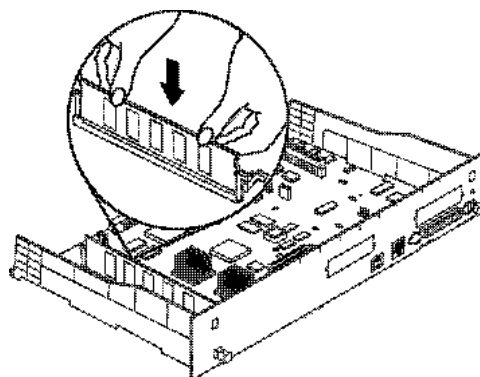
**b** Lift the DIMM straight out of the DIMM connector.





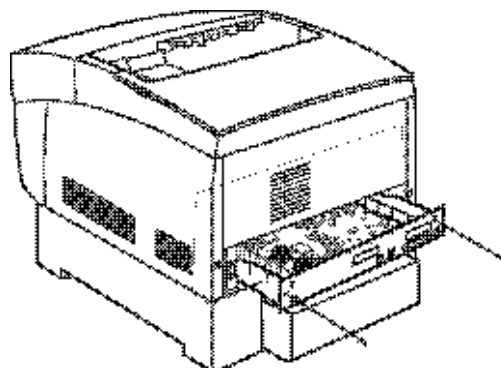
- 6 Insert the new DIMM straight down into the DIMM connector until the latches snap into the locked position.

*Observe the keyed side of the DIMM to align it with the connector. When seated, the DIMM stands upright, firmly in place. If you cannot snap the DIMM into place, do not force it. Reposition it, making sure that the bottom of the DIMM is seated completely in the connector.*



- 7 Reinstall the controller board into the printer.

*Gently slide the controller board into the printer's tracks until it is fully seated, and then tighten the two screws.*



- 8 Reconnect all interface cables.
- 9 Reconnect the power cord, and turn on the printer (a startup page should print, if enabled).



*In compliance with UL guidelines, "The appliance inlet is considered to be the main disconnect device."*

- 10 Verify that the total size of the RAM installed in your printer is listed on the startup page (control panel's Administration/Startup Options/Do Start Page menu) or a status page (control panel's **Print Status ?** button or Administration/Special Pages/Print Status menu).



www.Tally.com

### PRINTER INFORMATION

Product Name: Tally Xpress T8016 Color Laser  
 Printer Name: Tally Xpress T8016 Color Laser  
 Serial Number: 9190103626  
 System Software Release: 1.0.3  
 Engine Firmware Version / NVR: 2.0.0 / 3.6.5  
 Language Version: 3010.041, Revision 35  
 Installed Memory: 256 MB  
 Typeface Font: 252  
 Print Quality: Standard

### USAGE SUMMARY

Faces Printed: 232  
 Sheets Printed: 200  
 Transparencies: 0  
 Monochrome(K) Faces: 77  
 Normalized Mono (K) Faces: 77.1  
 Color Faces: 157  
 Normalized Color Faces: 163.39

### PAPER SOURCES

Multipurpose(Bin1): letter  
 Upper(Bin2): letter

### PRINTER INTERFACES

**PARALLEL:** Interactive  
 Emulation: ESP  
 Data Bits: 8 Bits

**USB**  
 Emulation: ESP

**RESIDENT NIC: Enabled**  
 Type: Ethernet I/F 6.12ET+  
 Emulation: ESP  
 HW Address: 08.00.86.19.30.13  
 IP Address: 010.000.003.025

### INSTALLED OPTIONS

Duplex



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 The MINOLTA-ORIO is a registered trademark of MINOLTA-ORIO, Inc.




### Tally Xpress T8016 Color Laser

Printer Name : Tally Xpress T8016 Color Laser

## Status Page

#### Printer Identification

System Release:	1.0.3
Engine Firmware Version / NVR:	2.0.0 / 3.6.5
Version:	3010.041, Revision 35
Processor ID:	2733
Faces Printed:	232
Sheets Printed:	189

#### Printer Settings

Compatibility Level:	Level 3
Do Start-up Page:	Yes
Do Error Handler:	No
Do Bye/Start:	Yes
Is Password 07:	Yes
Duplex:	Off
Default Chaining:	On
Default Paper Tray:	Upper
Default Output Tray:	Upper
Number of Paper Trays:	2
Page Stack Order:	Face Down
Left Margin:	100
Top Margin:	100
Print Quality:	Standard

#### Current Memory Configuration

Location	Size
Host Input:	3072 KB
Display List:	80456 KB
Font Cache:	1024 KB
Help:	6110 KB
FrameBuffer:	127520 KB
Emulation:	64 KB
HP Storage Pool:	3072 KB
Emulation Temporary:	3072 KB
Color Matching:	8192 KB
Disk Cache:	28 KB
System Use:	1024 KB
<b>Total Memory:</b>	<b>262144 KB</b>
PostScript® Emulation VM:	593104
VM allocated:	171468
VM remaining:	579586

#### Timeouts

Wait:	120 sec.
Job:	0 sec.
Emulation:	9 sec.
ESP:	3 sec.

#### Communications Settings & Input Buffer Sizes

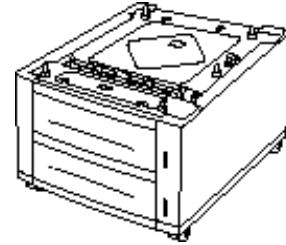
Parallel:	ESP, 8 Bits, Interactive	15360 bytes
IF 2:	Ethernet I/F 6.12ET+ ESP, HW address: 08.00.86.19.30.13, Enabled	15360 bytes
USB:	ESP	15360 bytes
Share Spooling Space		3099648 bytes

## High-capacity Input Feeder (HCIF)

Each tray in the HCIF increases your printer's media feed capacity by 500 sheets. The HCIF is positioned under the printer, so no extra horizontal space is necessary.

### What's in the Kit?

- High-capacity input feeder (HCIF) with two media trays (500 sheets each)



## Installation

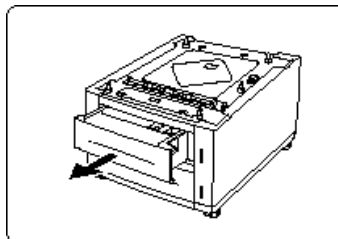
### WARNING!

**Your printer weighs approximately 77 lbs (35 kg) with consumables. Be sure to have help when lifting and moving it.**

- 1 Remove the HCIF from the shipping carton, and place it on a table or flat surface near the printer.
- 2 Remove any tape and packing material from the HCIF.

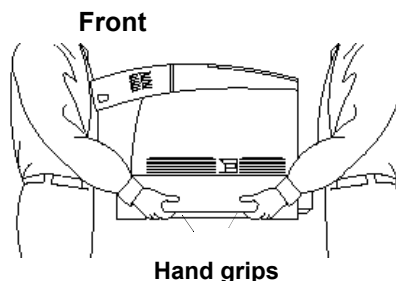


*We **strongly** suggest that you save the packaging materials in case you ever need to move or ship the printer.*



- 3 Slide open the top media tray until it stops.
- 4 Using two hands, lift it slightly to remove it from the printer.
- 5 Remove any shipping tape and spacers.
- 6 Repeat for the lower media tray.
- 7 Turn off the printer, and then disconnect the power cord and all interface cables from the printer.
- 8 With another person's help, lift the printer.

*Do not tilt it more than 10° in any direction at any time.*



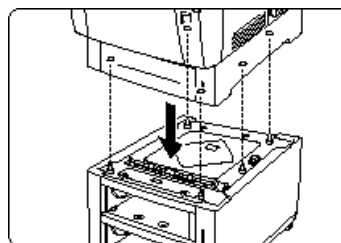
### WARNING!

**Your printer weighs approximately 77 lbs (35 kg) fully assembled. Be sure to have help when lifting and moving it.**

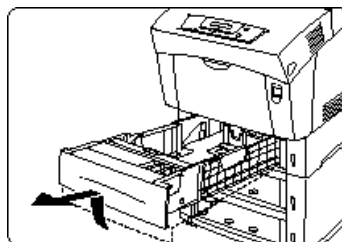
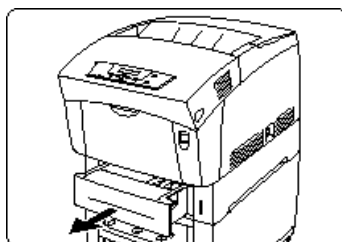
- 9 Set the printer on top of the HCIF.



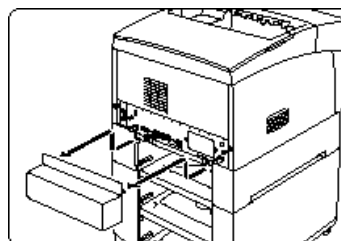
*Be sure to align the printer and HCIF as precisely as possible.*



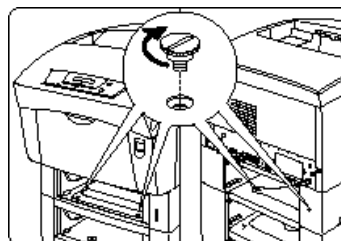
- 10 Remove the upper media tray.



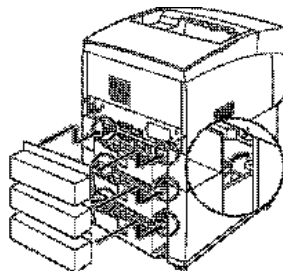
- 11 Remove the media tray cover from the rear of the printer.



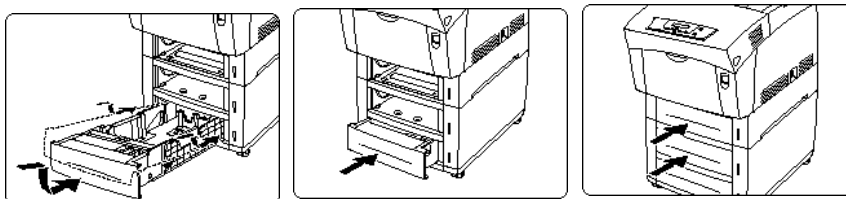
- 12 Screw in the 4 screws and tighten them.



- 13 Install all three media tray covers (see inset for location).



- 14 Install the media trays.



If you need to move the printer with the HCIF attached, unlock the casters and then move the unit.

- 15 Plug the printer in and turn it on.



*In compliance with UL guidelines, "The appliance inlet is considered to be the main disconnect device."*

- 16 Readjust the printer's color side-to-side registration, if necessary.

## Media Trays

The printer comes with a 100-sheet multipurpose tray (tray 1) and a 500-sheet media tray (the standard upper tray—tray 2). The optional high-capacity input feeder has two 500-sheet media trays (trays 5 and 6). Additional trays may be purchased. These trays provide three main benefits:

- Expanded flexibility to switch media size, color, and type without having to unload and load media.
- Increased media-feed capacity.

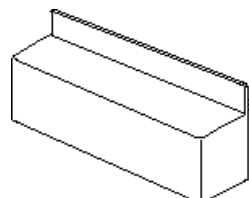
Keep replacement trays close by, so you can easily change media by slipping one tray out and another in.

## Tray Cover

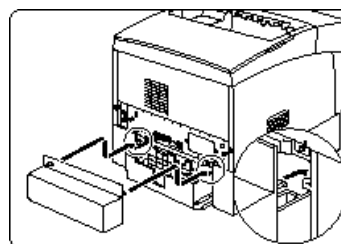
The tray cover accessory protects the media tray(s) from dust.

### What's in the Kit?

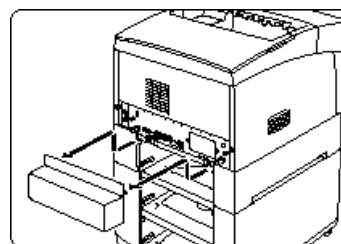
- Tray cover



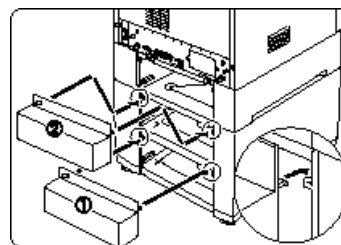
- 1 Hook the tray cover onto the tabs on the rear of the printer.



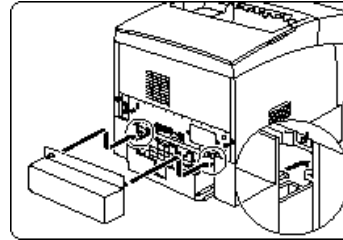
- 2 If you add a high-capacity input feeder, remove the tray cover from the rear of the upper media tray.



- 3 Then attach the HCIF tray covers by hooking the tray covers ① and ② at the rear of the printer onto the corresponding tabs.



- 4 Attach the tray cover back onto the upper media tray.





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***Color Printing***

**7**

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# Introduction

The T8016 features advanced color laser technology that produces inexpensive and durable color prints at 1200x1200 dpi on plain paper, envelopes, labels, thick stock, and transparencies.









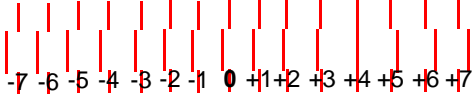
## Color Registration











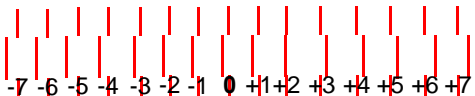



### Color Registration

At setup, any time the printer is moved, and whenever you replace the imaging unit, adjust the side-to-side (scan direction) color registration using the following control panel sequence.



*The printer automatically adjusts the registration in the top-to-bottom (feed) direction.*

Press Key	(Until) Display Reads Message in Capital Letters
Online	IDLE (and online button is off)
Menu	CONFIGURATION/OPERATOR CONTROL <b>Do NOT press Select yet.</b>
 (Next)	CONFIGURATION/ADMINISTRATION
 (Select)	
	ADMINISTRATION/ENGINE
	
	ENGINE/REGISTRATION
	REGISTRATION/REGISTRATION PG
	REGISTRATION PG/YES
	REGISTRATION/REGISTRATION PG
<div><div>■ Wait for a Side Color Registration Page to print. Note the number below each set of swatches that shows which set aligns the straightest. If the straightest lines are all at the “0” position for every color, you do not need to adjust the registration. Press Online twice to return the printer to online and IDLE.</div><div>■ If the straightest lines are in a position other than “0,” continue with these instructions (the example below shows +4 to be the straightest).</div><div></div></div>	

Press Key	(Until) Display Reads Message in Capital Letters
	Press the Next key until the color you want to adjust is in the message window.
	
	Press the Next key until the registration number of the color to be adjusted is set at the baseline of "0."
	
	REGISTRATION/REGISTRATION PG
	REGISTRATION PG/YES
	REGISTRATION/REGISTRATION PG
<p>■ If the straightest lines are all at the "0" position for every color, you do not need to adjust the registration. Press Online <u>twice</u> to return the printer to online and IDLE.</p> <p>■ If the straightest lines are in a position other than "0," continue with these instructions.</p>	
	Press Next to go back to the color to be adjusted.
	
	Press the Next key until the registration number of the straightest line is displayed (+2 in the new sample).
	
	REGISTRATION PG
	REGISTRATION PG/YES
	REGISTRATION/REGISTRATION PG
The registration page prints again. Confirm that the registration is correct. Repeat the process for the other colors, if necessary.	
Online ( <u>twice</u> )	IDLE (and online button is on).



*The printer automatically saves each number as you progress through the choices using the Next or Previous key. The printer does not have to be restarted for the changes to take effect.*



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***Storage,  
Deinstallation,  
Shipping, and  
Packing***

---

**8**

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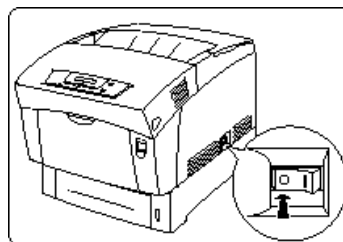
## Attention

Failure to follow these instructions could result in permanent equipment damage.

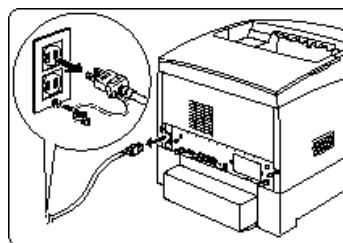
## Storing the Printer

Keep the following in mind when storing the printer for an extended period:

- 1 Turn off the printer.

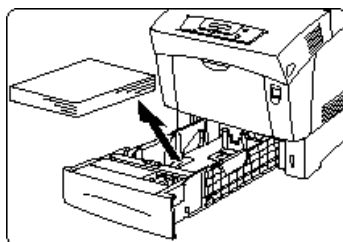


- 2 Unplug the printer's power cords and interface cables.



- 3 Remove the media from all media tray(s).

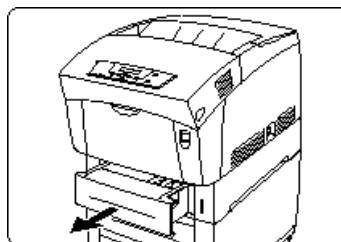
*Store the media in a dust-free area protected from humidity.*



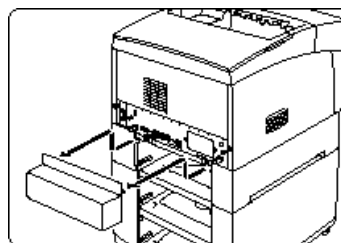
## Deinstalling the High-capacity Input Feeder (HCIF)

If you don't have an HCIF installed, skip to the following section.

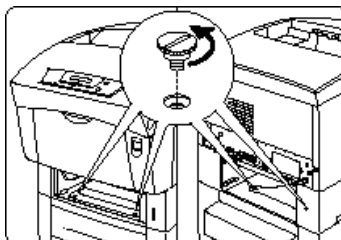
- 1 Remove the upper media tray.



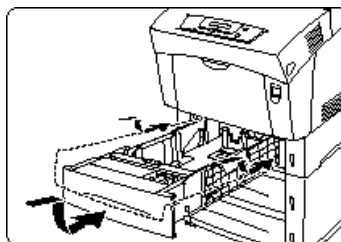
- 2 Remove the rear tray cover.



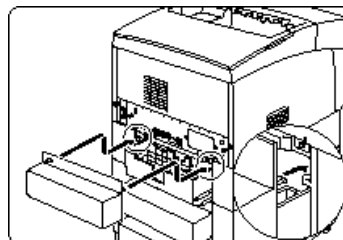
- 3 Remove the four connecting screws.



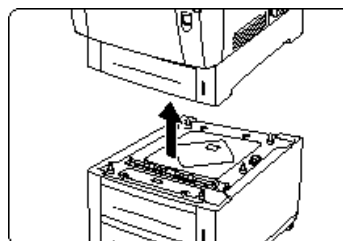
- 4 Reinsert the upper media tray.



- 5 Replace the rear tray cover.



- 6 With the help of another person, lift the printer by its carrying grips from the HCIF, and place the printer on a flat surface.



## WARNING!

**Your printer weighs approximately 77 lbs (35 kg) fully assembled. Be sure to have help when lifting and moving it.**

- 7 Repack the HCIF in its original shipping carton for storage or shipment.



*If you're returning the printer for service, you don't need to return the high-capacity input feeder unless instructed to do so.*



## Shipping the Printer

If you need to ship your printer after it's been installed, follow these procedures to prevent damage to the printer and to keep your warranty valid.

### Attention

The instructions given in this section must be followed before repacking the printer in its original shipping carton with the original packing materials. These supplies must be replaced prior to shipping the printer.

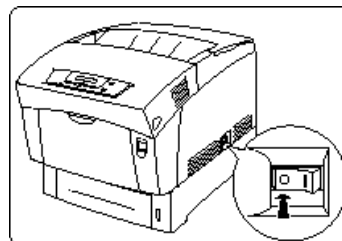
#### Do you have your original packaging?

If yes, you need only the Repacking Kit. If no, you need both the Replacement Shipping Carton Kit and the Repacking Kit. To order either or both kits, call Tally.

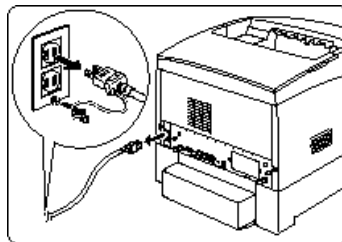
If you return the printer for service, be sure to write the RMA (Return Merchandise Authorization) number you received from your customer support representative on the outside of the carton before shipping the printer.

## Prepare the Printer for Shipment

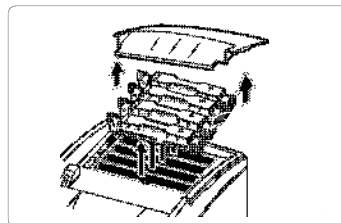
- 1 Turn off the printer.



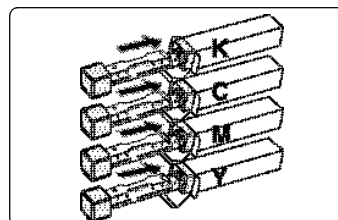
- 2 Unplug the printer's power cords and interface cables.
- 3 If you have an high-capacity input feeder (HCIF) installed, remove it (see page 129).



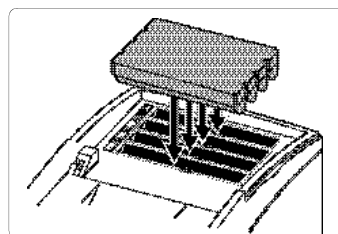
- 4 Remove the top cover and all toner cartridges.



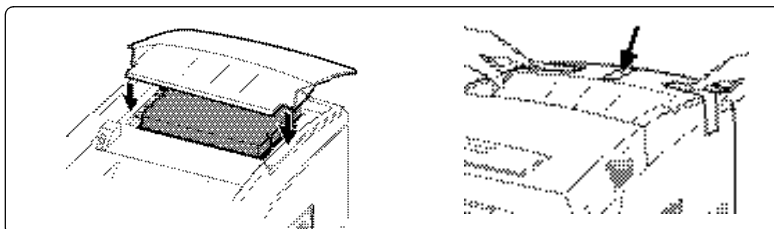
- 5 Place the toner cartridges in their original packaging and foam.



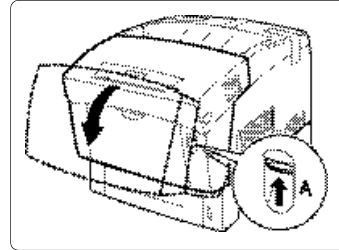
- 6 Insert the toner foam spacer.



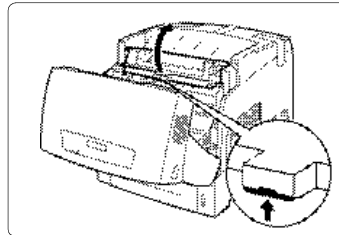
- 7 Replace the top cover and secure it with tape.



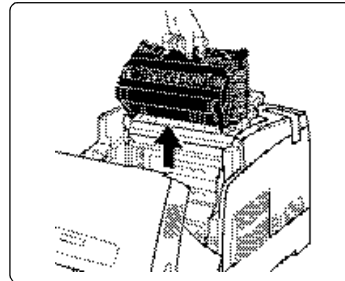
8 Open the front cover (button A).



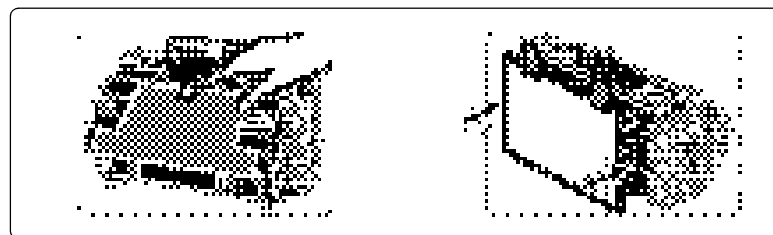
9 Open the imaging unit cover.



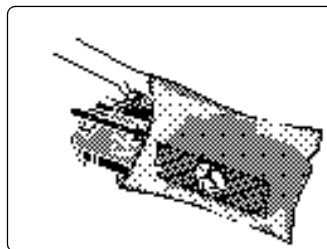
10 Remove the imaging unit.



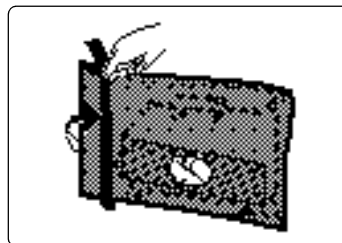
11 Replace the protective cover, foam, and tape on the imaging unit.



- 12 Store the imaging unit in its light-protected bag to protect it from light and dust.



- 13 Securely tape the end to prevent toner spillage.



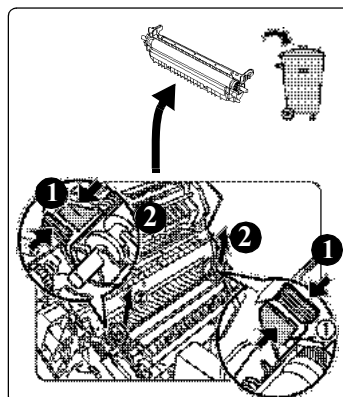
- 14 Grip the tabs at both ends of the transfer unit ① and gently lift it ② out of the printer.

**⚠ Attention**

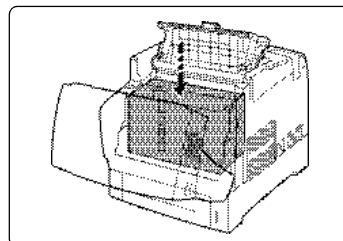
**Lift the unit carefully to prevent toner from spilling out.**



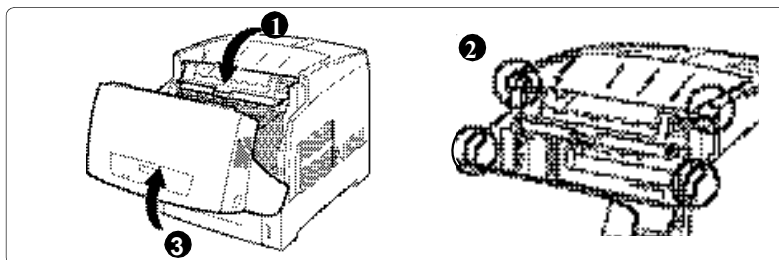
*Dispose of the used transfer unit according to your local regulations.*



- 15 Place the imaging unit foam spacer into the printer.

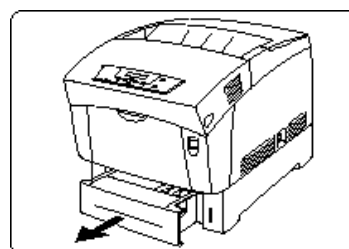


- 16 Close the imaging unit cover ① and place tape as shown below ②.

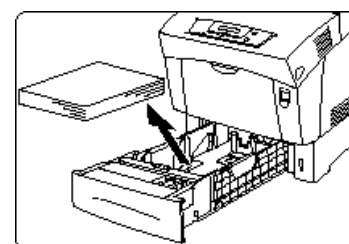


- 17 Close the front cover ③.

- 18 Slide open the media tray.

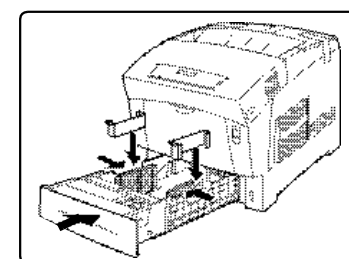


- 19 Remove the media.  
*Also remove media from the multipurpose tray, if necessary.*  
*Store the media in a dust-free area protected from humidity.*



- 20 Replace the media tray spacers and secure them with tape.

- 21 Reinsert the media tray.  
*Ensure that the media tray is pushed securely in.*



- 22 Secure the printer with tape.



## Packing the Printer

Before packing the printer, verify that the actions described in the following checklist have been completed.



*If you're returning the printer for service, you don't need to return the accessories, toner cartridges, imaging unit, documentation, or power and interface cables.*

### Checklist

✓	Item	Should be...	Additional information
	RMA number	Received (and placed clearly on the outside of the box)	See page 131
	Replacement Shipping Carton (foam, carton, plastic printer bag) Repacking kit (all the original packing materials, including tape and instructions)	Acquired, if necessary	See page 131
	High-capacity input feeder	Removed	See page 129
	Power cord and cables	Removed	See page 131
	Toner cartridges	Removed and packed Toner foam spacer inserted into printer	See page 132
	Imaging unit	Removed and bagged Imaging unit foam spacer inserted into printer	See page 133
	Transfer unit	Removed and disposed of	See page 134
	Media tray(s)	Packed with spacer	See page 135

## Packing

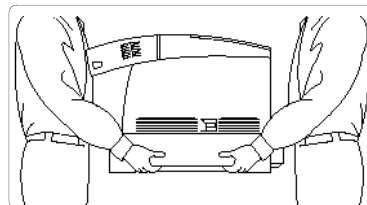
- 1 With another person's help, put the printer into the plastic bag, and then place the printer onto the base tray.

### WARNING!

**Your printer weighs approximately 77 lbs (35 kg) fully assembled. Be sure to have help when lifting and moving it.**

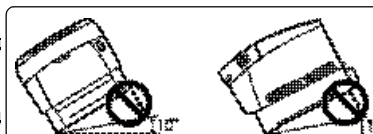


*Lift the printer by the front and back carrying grips.*

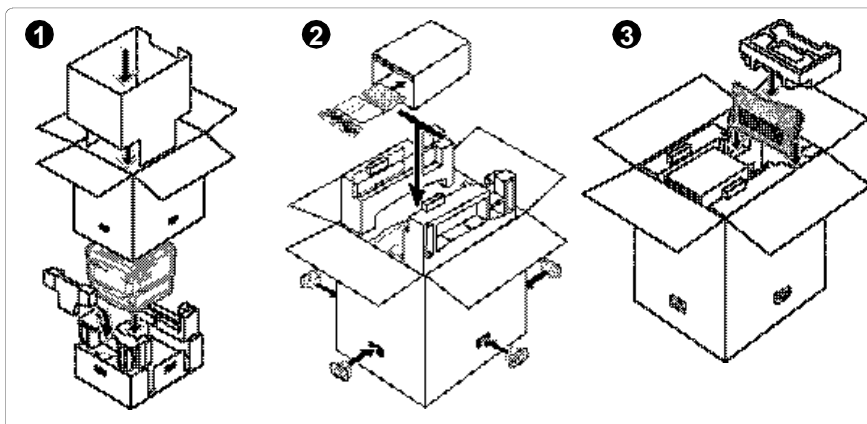


### Attention

**Do not tilt the printer more than 10° at any time.**



- 2 Pack the printer for shipment as



shown in the illustrations.



*Ensure the shipping carton rests squarely on top of the base tray. Don't ship the toner cartridges.*

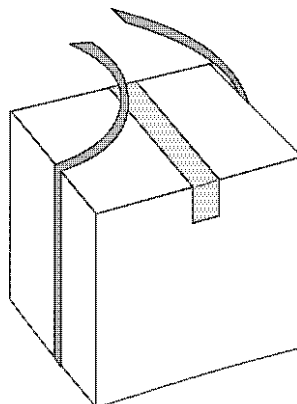
- 3 Ensure that the top of the carton is securely taped.

## Strapping and Buckling

- 2 lengths of strapping precut to the appropriate length
- 2 buckles to secure the strapping



- 1 Thread one end of the strapping beneath the carton.
- 2 Pull the two ends of the strapping together at the top of the carton.



- 3 Thread both ends up through the center of the buckle.



- 4 Weave the slack of one end through the buckle.
- 5 Pull the slack on that end so that the strapping is taut in the buckle.



- 6 Weave the slack of the other end through the buckle.

- 7 Pull all of the remaining slack of the strapping through this side of the buckle, until the buckle is taut against the carton.

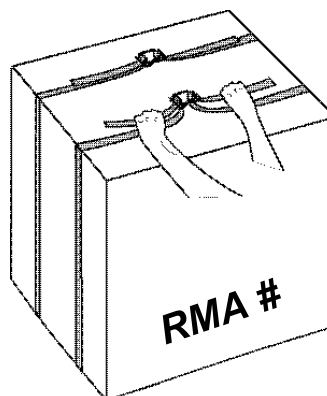




- 8 Pull the buckle against the carton as tightly as possible.  
*Some slack may still exist.*
- 9 Repeat this procedure again, spacing the straps across the carton.
- 10 Place the RMA number *prominently* on the carton.

**! Attention**

If the RMA number is not *prominently* visible on the outside of the carton, processing delays will occur.





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***Technical  
Specifications***

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**A**

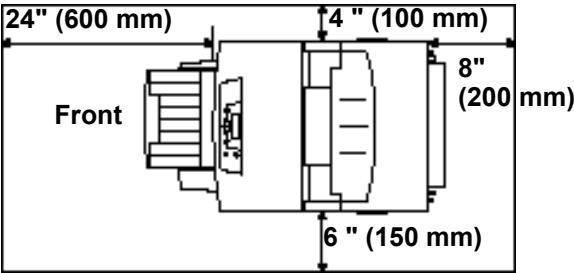
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# Requirements

## Space Requirements

The illustration below shows the amount of space required for operating the printer, replacing supplies, and removing media jams.

Top View



*Allow enough space around the printer to allow adequate ventilation and easy servicing. For best output quality and longest consumables life, install the printer on a hard, flat, level (within  $\pm 5^\circ$  slant) surface.*

If you have added an HCIF, the printer's height will increase by approximately 19 inches (476 mm).

## Location Requirements

- On a surface capable of supporting the printer, accessories, consumables, and media..

Component	Weight
Printer	65 lbs (29.5 kg)
Consumables (such as toner, imaging unit)	12 lbs (5.5 kg) (total)
Media	5.2 lbs (1.9 kg) per ream of 20 lb bond (75 g/m <sup>2</sup> ) paper
High-capacity input feeder (HCIF)	49.6 lbs (22.5 kg)

With these characteristics...	But away from...
On a hard, flat, stable, level ( $\pm 5^\circ$ or less slant at any point around the machine).	Direct sunlight. Heating and cooling sources, extreme temperature or humidity changes, wind, and dust. Open flames or items that can easily burn.

With these characteristics...	But away from...
Close to an easily accessible grounded power supply (on an exclusively dedicated power outlet) that meets printer specifications. Near your computer. At the length 6.5' (2 m) or less for an IEEE 1284 bidirectional parallel connection.	A connection to the same electrical circuit as high-current machines. Noise-generating equipment, such as a copier or air conditioner, and strong magnetic or electromagnetic fields, such as a refrigerator.
With enough space to allow adequate ventilation and easy servicing.	Water, water pipes, liquid (drink) containers, and corrosive chemicals or vapors, such as ammonia.
With an ambient temperature range of 50°–90° F (10°–32° C) and relative humidity range of 15%–85% (noncondensating).	Small, loose metal parts, such as paper clips and staples.
At an altitude of 0–10,170' (0–3,100m).	Excessive vibration.

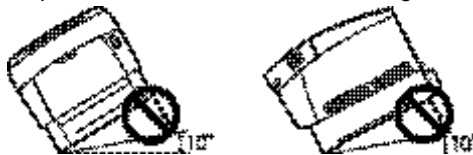


*A surface can be tested for levelness with a standard round pencil. If the pencil rolls, the surface is not level. Clear the area of any obstruction or items such as cables that might prevent the printer from sitting directly on the flat, level surface.*

## WARNING!

**Obstructing the ventilation grilles could present a fire hazard.**

- Do not tilt the printer more than 10° when moving it.



- If the printer is located in a cold room that is rapidly heated, or if the printer is moved from a cold place to a warm, humid place, condensation may occur within the printer, degrading print quality. If this occurs, allow the printer to adapt to the environment for about one hour before use.
- If using a humidifier or water vaporizer in the room with the printer, use only purified or distilled water. Impurities in the water may be released into the air, where they can accumulate inside the printer and cause degraded printer output.

### Attention

For products installed outside North America, do not connect the groundwire to gas or water pipes or grounding for telephones.

### **WARNING!**

Obstructing the ventilation grilles could present a fire hazard.

## Power Requirements

### **WARNING!**

Connect the power plug to an outlet with the same rated voltage as the printer (120 or 240 V), and fused for at least 15 amperes. No other devices should be connected to this outlet, as overheating could cause fire or electric shock. The printer draws 8 A at 120 V. Your printer requires a properly grounded AC outlet with a rated line voltage of 120 V. The grounding terminal on the power cable should be connected to a good earth ground to prevent electric shock and fire.

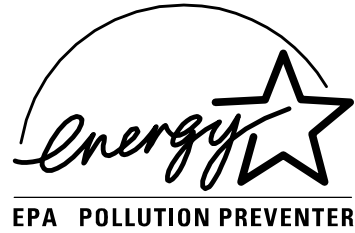


In compliance with UL guidelines, "The appliance inlet is considered to be the main disconnect device."

<b>Power</b>	120 VAC 50 Hz 8 amps
<b>Voltage Fluctuation Rate and Rated Line Voltage</b>	120 VAC $\pm$ 10%
<b>Fused</b>	For at least 15 amperes (8 amperes for 240 V).
<b>Printer</b>	Draws 8 A at 100 V, 110 V, or 120 V; or 4 A at 220 V or 240 V.
<b>Maximum Electrical Current</b>	Required during operation is 8 amps for a 100 V or a 120 V system.
<b>Noise-generating Equipment</b>	Should not be connected to the same electrical outlet as the printer.
<b>Grounding</b>	Your printer requires a properly grounded AC outlet.

## ENERGY STAR Compliance

The **T8016** basic configuration is compliant with US Environmental Protection Agency (EPA) ENERGY STAR regulations. After a user-configurable period of inactivity, the printer changes to a low-power state (the engine remains on, but the fuser turns off). When a print job is received, the printer returns to normal power.



## Engine and Controller Specifications

### Print Speed

Maximum Print Speed in Pages per Minute	Print Quality			
	Standard or Quality		Fine	
	Simplex	Duplex*	Simplex	Duplex*
A4	16	10.1	8	5.3
A4 Thick Stock 1				
A4 Transparency	8	—	4	—
A4 Thick Stock 2	8	—	8	—
A4 Thick Stock 3				
A4-Sized Label Sheet				
A5	16	10.1	8	5.3
A4 Thick Stock 1				
A5 Thick Stock 2	8	—	8	—
A5 Thick Stock 3				
B5	16	10.1	8	5.3
B5 Thick Stock 1				
B5 Thick Stock 2	8	—	8	—
B5 Thick Stock 3				
Chokei 3	8	—	8	—
Chokei 4				
Custom Paper Size	Varies	—	Varies	—
Envelope	8	—	8	—
Executive	16	10.1	8	5.3
Executive Thick Stock 1	8	10.1	8	5.3
Executive Thick Stock 2	8	—	8	—
Executive Thick Stock 3				
Folio	13.7	9.2	6.9	4.8
Folio Thick Stock 1				
Folio Thick Stock 2	6.9	—	6.9	—
Folio Thick Stock 3				
Kai 16 (plain paper)	16	10.1	8	5.3
Kai 32 (plain paper)				



Maximum Print Speed in Pages per Minute	Print Quality			
	Standard or Quality		Fine	
Legal	13.7	9.2	6.9	4.8
Legal Thick Stock 1				
Legal Thick Stock 2	6.9	—	6.9	—
Legal Thick Stock 3				
Letter	16	10.1	8	5.3
Letter Thick Stock 1				
Letter Thick Stock 2	8	—	8	—
Letter Thick Stock 3				
Letter-Sized Label Sheet				
Letter Transparency				
Postcard (Japanese)	8	—	8	—
<b>Notes:</b> * Duplexing is supported only up to 28 lb (105 g/m <sup>2</sup> ) bond. Duplexing envelopes, glossy stock over 28 lb (105 g/m <sup>2</sup> ) bond, labels, thick stock over 28 lb (105 g/m <sup>2</sup> ), and transparencies is not supported.				



## Engine

<b>Engine</b>	Fuji-Xerox Hanobi
<b>Standard average duty cycle</b>	3,000 simplex letter/A4 pages per month The duty cycle is affected by the media type and percent coverage.
<b>Printer type</b>	Desktop, non-impact, color printer
<b>Print method</b>	<b>Scanner:</b> Semiconductor laser with rotating mirror <b>Recorder:</b> Black writing electrophotographic <b>Process:</b> Cyan, magenta, yellow, and black toner image transfer to print media <b>Fuser:</b> Heated rollers

<b>Resolution</b>	600 x 600 dpi (default) 1200 x 1200 dpi  You may also need additional memory (DIMMs) for the following: <ul style="list-style-type: none"> <li>■ To print at maximum performance</li> <li>■ To print complex graphics or complex PostScript documents</li> <li>■ For increased collation performance</li> <li>■ For increased spooling performance</li> </ul>
<b>Toner</b>	<b>Type:</b> Chemical-type  <b>Packaging:</b> User-replaceable toner cartridges Keyed toner cartridges are available from Tally.
<b>Warm-up time</b>	<b>Typical:</b> 90 seconds from power on, assuming normal temperature and humidity.  <b>After New Imaging Unit Installed:</b> 6 minutes.
<b>Input sources</b>	<b>Standard:</b> 100-sheet (face up) multipurpose tray 500-sheet (face down) upper tray  <b>Optional:</b> two 500-sheet (face down) trays in the HCIF
<b>Output</b>	250-sheet (face down) output tray on top of printer
<b>Media sizes and weights</b>	See "Using Media" on page 27.
<b>Media type</b>	Cut-sheet
<b>Notes</b>	The maximum media weight supported for duplex printing is 28 lb bond (105 g/m <sup>2</sup> ).

## Controller

<b>CPU</b>	QED 7065a, operating at 350 MHz
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<b>Resident emulations</b>	<p><b>PostScript</b>—Level 3 (600/1200 dpi)</p> <p><b>HP PCL</b>—PCL5e—LaserJet 4000, PCL5c—Color LaserJet 4500, PCLXL—Color LaserJet 4500</p> <p><b>PDF</b>—Version 1.3 and below</p> <p> <i>Direct printing of complex or large PDF files may require additional memory and/or a hard disk.</i></p> <p><b>HP-GL</b>—7475A/7550/Draftmaster (300/600 dpi)</p> <p><b>Lineprinter</b>—(600 dpi)</p>
<b>Optional emulations</b>	<p><b>ImageServer</b> (monochrome only)</p> <p><b>CGM</b></p> <p><b>LN03 Plus</b> (300 dpi monochrome only)</p>
<b>Fonts</b>	<p><b>PostScript</b>—137 resident PostScript fonts that can be scaled from 4 points upward and rotated to any angle in 1° increments; all typefaces have multilingual character sets</p> <p><b>HP PCL 5e, 5c</b>—80 scalable and 9 bitmap typefaces</p> <p><b>PCL XL</b>—80 scalable and 9 bitmap typefaces</p> <p><b>HP-GL</b>—40 resident HP-GL symbol sets</p> <p><b>Type 1 / Type 3 Support</b>—Support for Type 1 and Type 3 host-resident downloadable PostScript fonts</p> <p><b>TrueType</b>—Support for Type 42 (PostScript format) host-resident downloadable TrueType fonts, support for TrueType fonts in PCL</p>
<b>Standard interfaces</b>	<p><b>Ethernet</b>—10BaseT/100BaseTX</p> <p><b>Parallel</b>—Centronics/IEEE 1284 bidirectional</p> <p><b>USB</b>—USB Type B connector</p> <p></p>
<b>RAM</b>	<p><b>Type:</b> PC-100 Compliant SDRAM DIMMs</p> <p><b>Base system RAM:</b> 256 MB</p> <p><b>Total RAM:</b> Upgradable to 512 MB (through 2 DIMM connectors)</p>
<b>System software</b>	Softloadable; stored in Flash ROM

## Electrical

### Voltage and Power

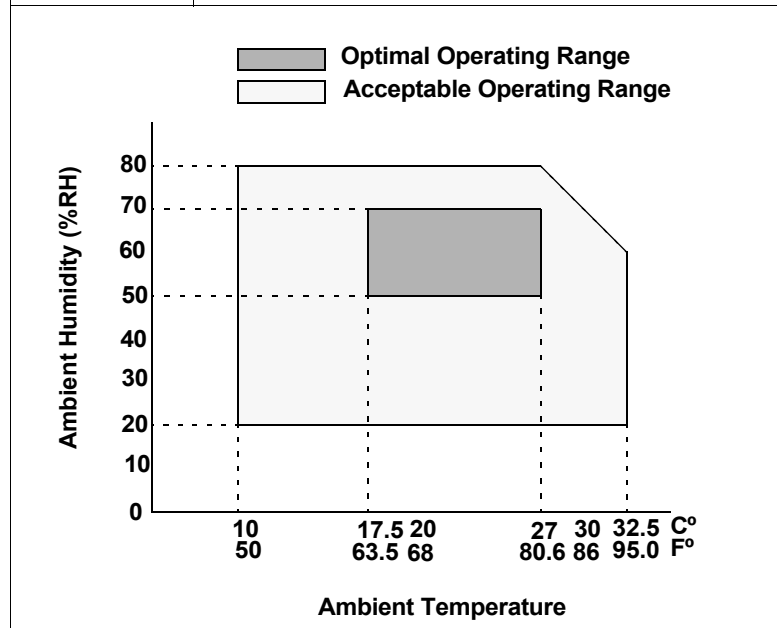
<b>Voltage and frequency</b>	120 volts $\pm 10\%$ at 60 Hz $\pm 2$ Hz		
<b>Phase</b>	Single		
<b>Power consumption</b>	<b>Mode</b>	<b>Average</b>	<b>Maximum</b>
	<b>Operation</b>	450 watts	850 watts
	<b>Standby</b>	180 watts	850 watts
	<b>Power saver</b>		45 watts
<b>Certification</b>	ENERGY STAR compliant		

### Current

<b>Mode</b>	<b>Average</b>	<b>Maximum</b>
<b>Operation (100–120 V)</b>	4 amperes	8 amperes
<b>Standby Power saver mode (100–120 V)</b>	1.7 amperes	8 amperes

## Environmental

<b>Acoustic noise data by ISO 7779</b>	<b>Measured in Standby: 32.1 dB</b> Regulation: 38 dB Max.  <b>Measured in Printing: 55.8 dB</b> Regulation: 57 dB Max.
<b>Relative humidity</b>	<b>Operating:</b> 20-80% RH (noncondensing) <b>Transportation/Storage:</b> 10–90% RH (non-condensing)
<b>Temperature range</b>	<b>Operating:</b> 50-90.5° F (10-32.5° C) <b>Transportation/Storage:</b> 32-95° F (0-35° C)
<b>Altitude</b>	<b>Operating:</b> 0-8202 ft (0-2500 m)
<b>Inclination</b>	<b>Operating:</b> ±5° or less slant at any point around the machine



## Physical

	Main Body	High-capacity Input Feeder
<b>Dimensions</b>	<b>W:</b> 17.28 in., 439 mm <b>H:</b> 17.52 in., 445 mm <b>D:</b> 25.12 in., 638 mm	<b>W:</b> 22.48 in., 571 mm <b>H:</b> 29.37 in., 746 mm <b>D:</b> 18.74 in., 476 mm
<b>Weight (excluding consumables)</b>	<b>Unpacked:</b> 65 lbs (29.5 kg)	<b>Unpacked:</b> 49.6 lbs (22.5 kg)
<b>Weight (including consumables)</b>	77 lbs (35 kg)	

## Consumable Life Expectancies

The stated life expectancy of each consumable is based on printing under specific operating conditions, such as media type, page size, content of material printed, and page coverage (usually 5% coverage of letter/A4-size media). The actual life expectancy will vary (or be reduced) depending on these and other printing variables, including continuous (optimal consumable life) or intermittent (for example, one-page jobs) printing, ambient temperature, and humidity.

<b>Fuser Unit and Media Feed Roller(s)</b>	Approximately 100,000 simplex pages. <i>Replace the fuser and the media feed rollers at the same time.</i>
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Imaging Unit*		or	Imaging Unit*	
Number of Pages per Job	Maximum Simplex Pages		Percent Toner Coverage (Four-Page Average)	Maximum Simplex Pages
1	12,500		35%–40%	15,000
2	21,000		30%–35%	17,000
3	26,000		25%–30%	20,000
4 (Average Size)	30,000		20%–25%	23,000
5 and Above	45,000		Less Than 20%	45,000
<b>Notes:</b> *The imaging unit life is dependent on the average number of pages or the toner coverage, <b>whichever comes first</b> . For example, if you print four-page simplex jobs at 5% coverage, the maximum is 45,000 pages. If you print four-page simplex jobs, and your black (or any color) toner has exceeded a total of 35% coverage, your maximum is 15,000 pages. The highest coverage of color will lead the life of the imaging unit, not the average of four colors.				

Toner	Percent Coverage of Letter/A4 Simplex Pages (Average Job Size of Four Continuous Pages)							
	5%	10%	15%	20%	25%	30%	35%	40%
Black	8,500	4,250	2,833	2,125	1,700	1,417	1,214	1,063
Yellow, Magenta, Cyan	6,000	3,000	2,000	1,500	1,200	1,000	857	750

<b>Transfer Unit (with built-in waste toner box)</b>	Approximately 25,000 simplex pages
--	------------------------------------

<b>Notes</b>	<p>*The imaging unit (4 OPCs, 4 developers, imaging unit transfer roller) life is dependent on the average number of pages or the toner coverage, <b>whichever comes first</b>. For example, if you print four-page simplex jobs at 5% coverage, the maximum is 45,000 pages. If you print four-page simplex jobs, and your black (or any color) toner has exceeded a total of 35% coverage, your maximum is 15,000 pages. The highest coverage of color will lead the life of the imaging unit, not the average of four colors.</p> <p>A <b>plane</b> is a single <b>pass</b> of media past the imaging unit. A <b>two-sided</b> (duplex) page (also called a <b>sheet</b>) consists of two passes of the imaging unit.</p> <p>The number of sheets printed shown on the startup page may differ from the sheets printed and faces printed statistics on the consumables statistics page (Operator Control/Consumables/Print Statistics). The numbers on the startup page refer to number of sheets/faces printed during the lifetime of the printer.</p> <p>The numbers on the consumables statistics page refer to the number of sheets/faces printed to date during the current consumables tracking period (Administration/Consumables/Start Period menu).</p>
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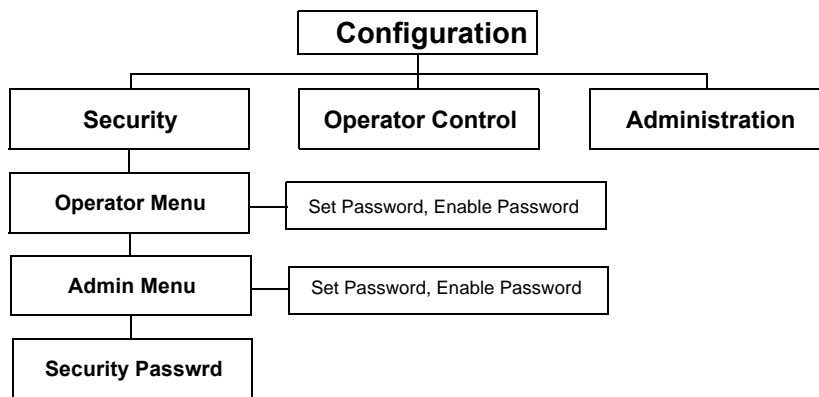
## Menus

### Configuration Chart Conventions

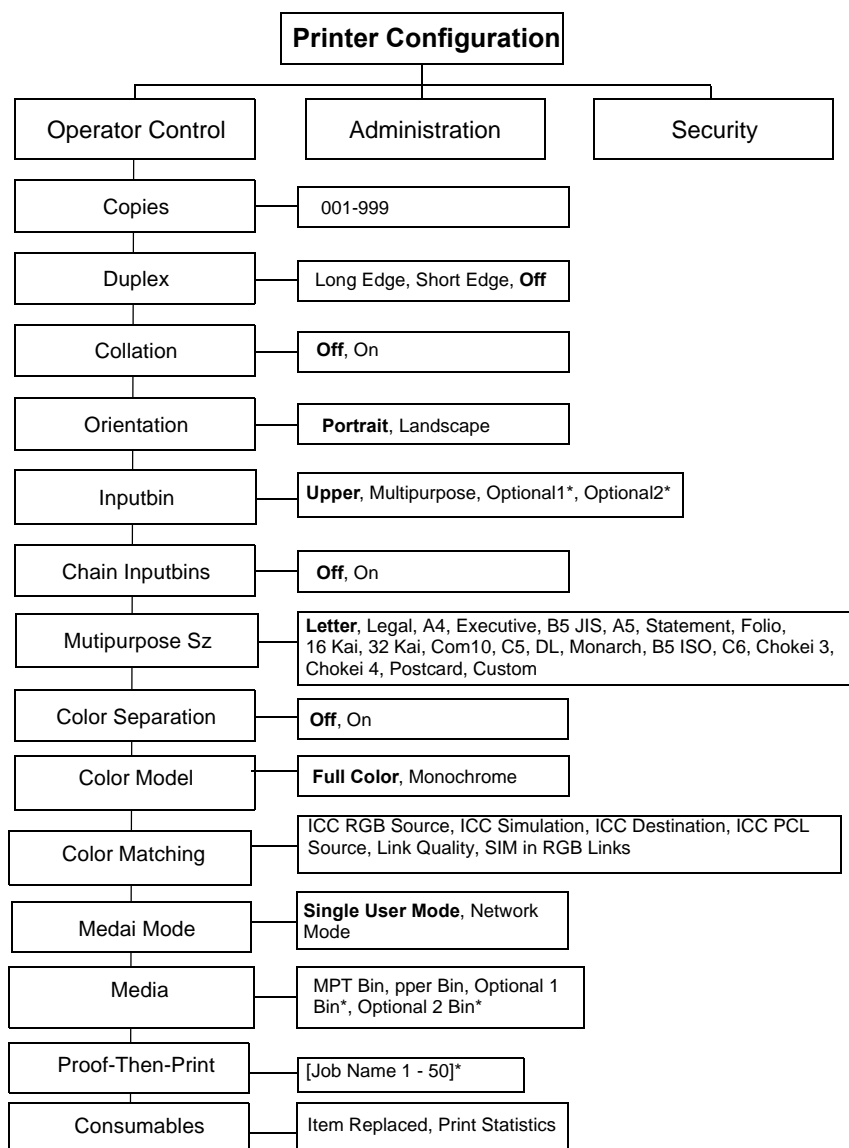
The following conventions are used in the menu charts:

- Some menu choices are marked as optional, indicating that the selection appears in the menu only when the option is installed.
- These charts show only the top-level menus.

### Security Menu

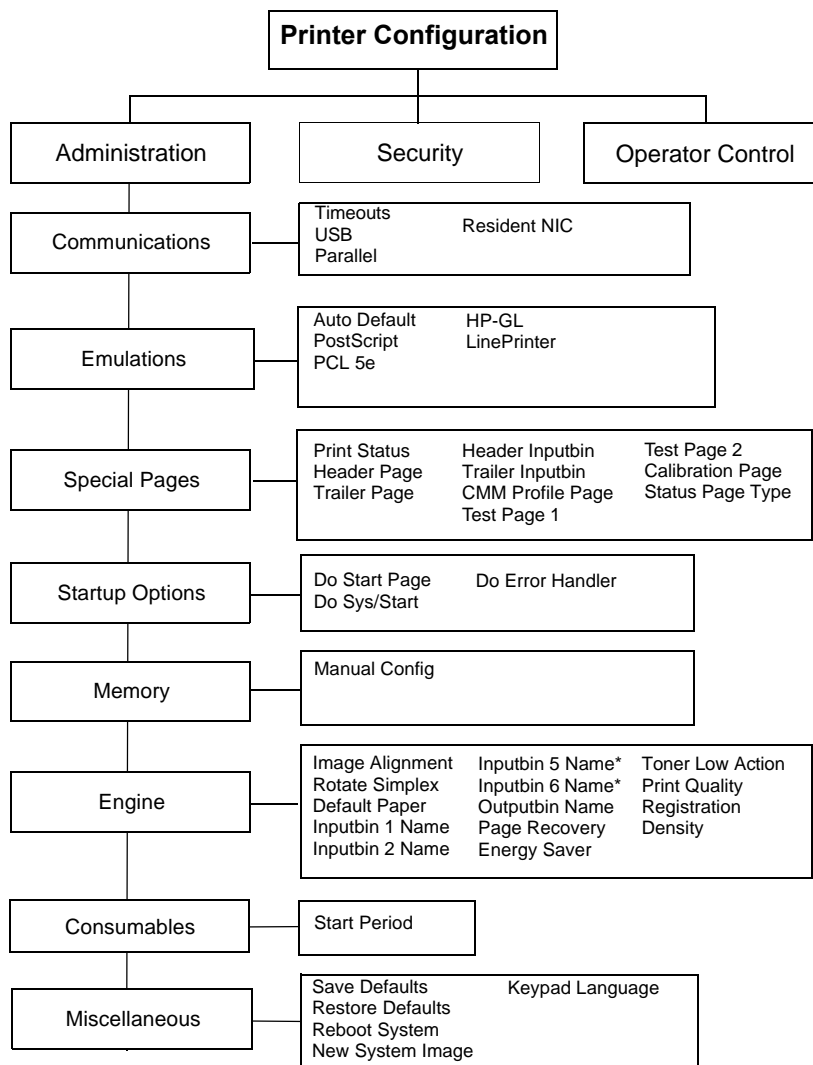


## Operator Control Menu



\*Only with an optional large-capacity input feeder installed

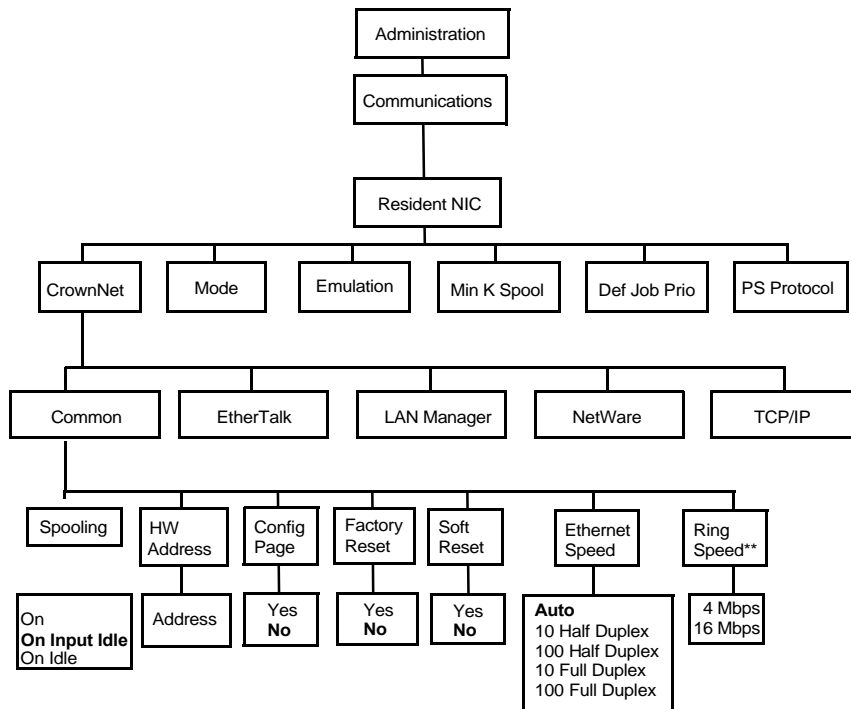
## Administration Menu



\*Optional

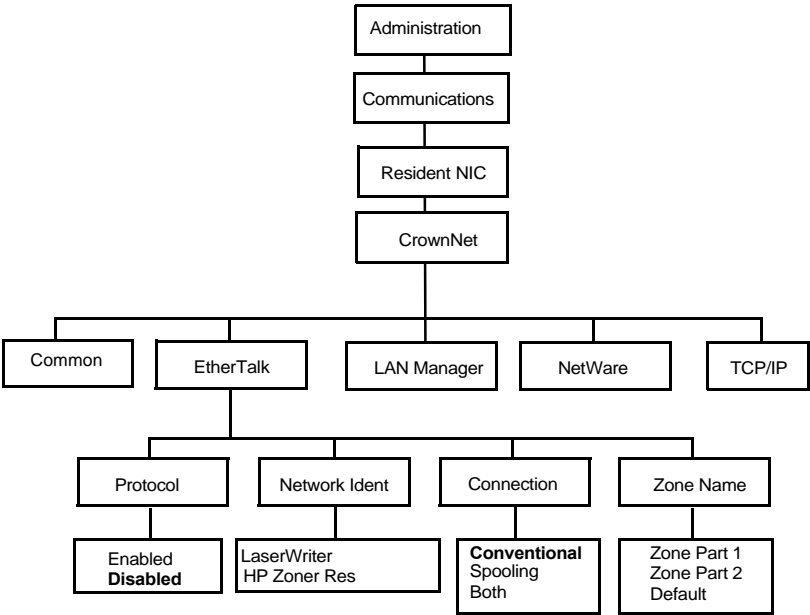
## Administration/Communications/Resident NIC/ Menu

### Common Menu

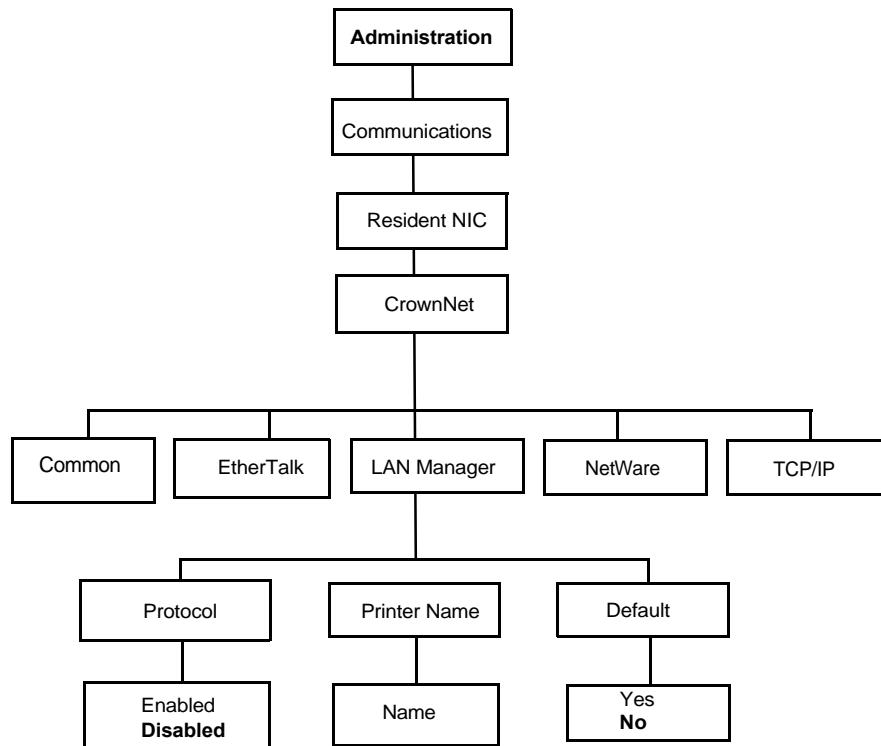


\*\*Token-Ring Only

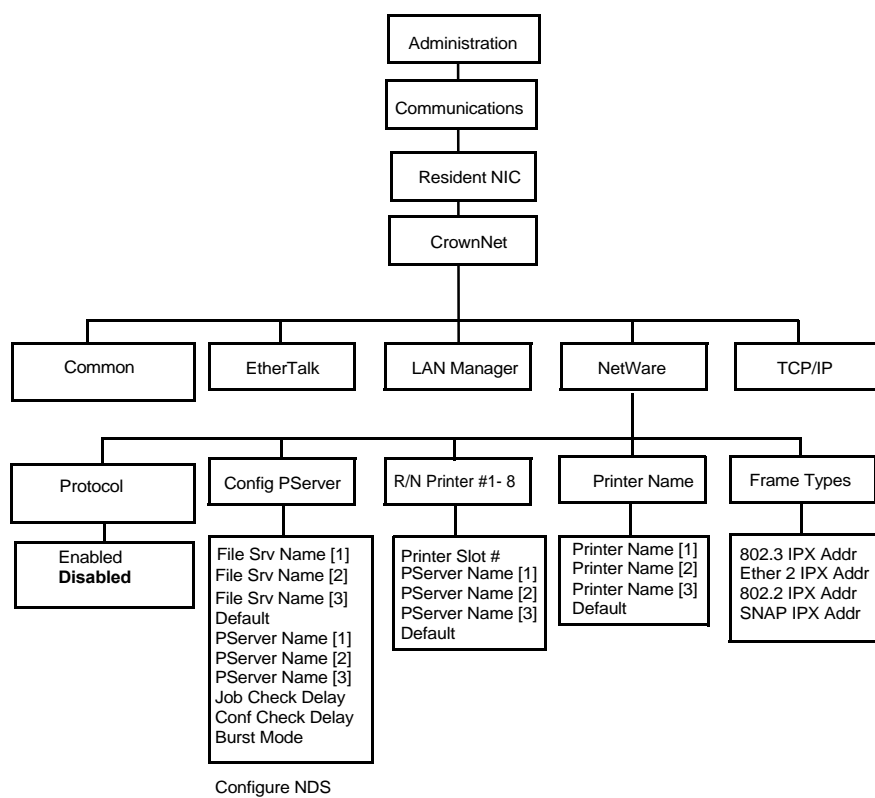
EtherTalk Menu



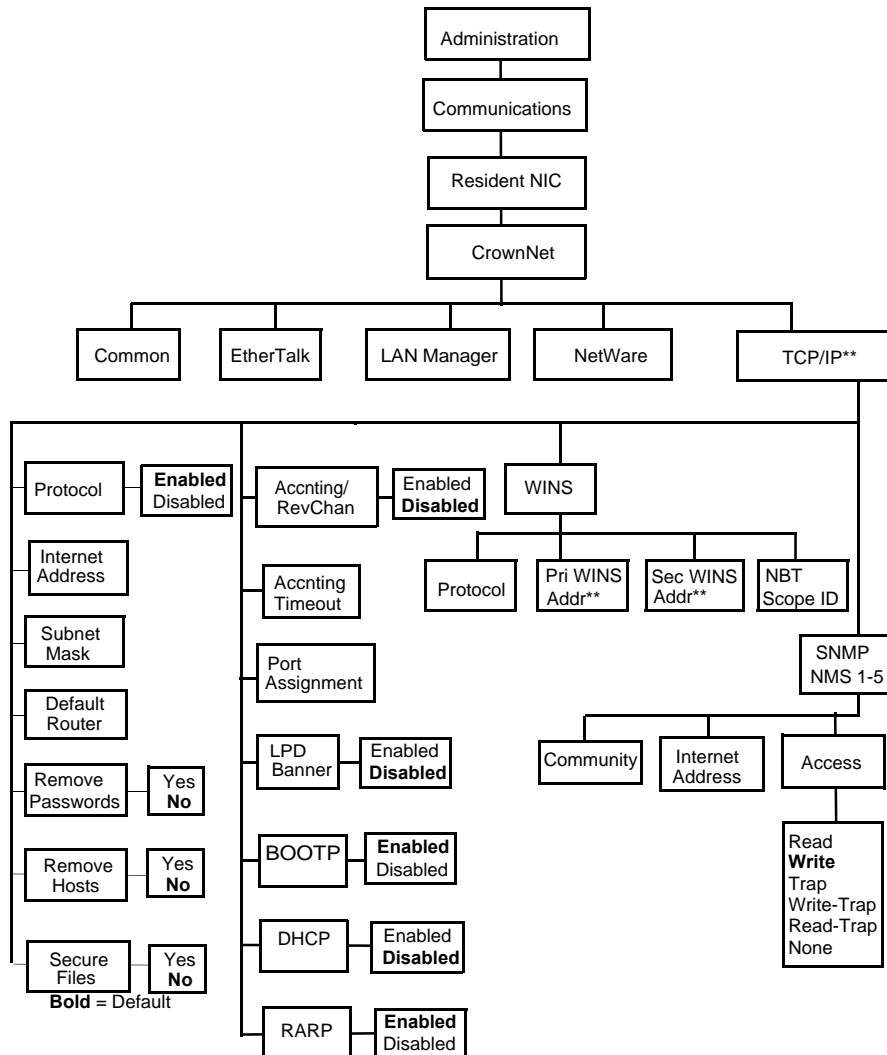
## LAN Manager Menu



## NetWare Menu



## TCP/IP Menu



\*\* Pri and Sec WINS Addr are IP addresses of the Primary and Secondary WINS servers (default 0.0.0.0). Default for DHCP and WINS is disabled. NBT Scope ID is any valid DNS domain name consisting of 2 dot-separated parts, or a "" (default blank). An empty string (blank value) is ignored.



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