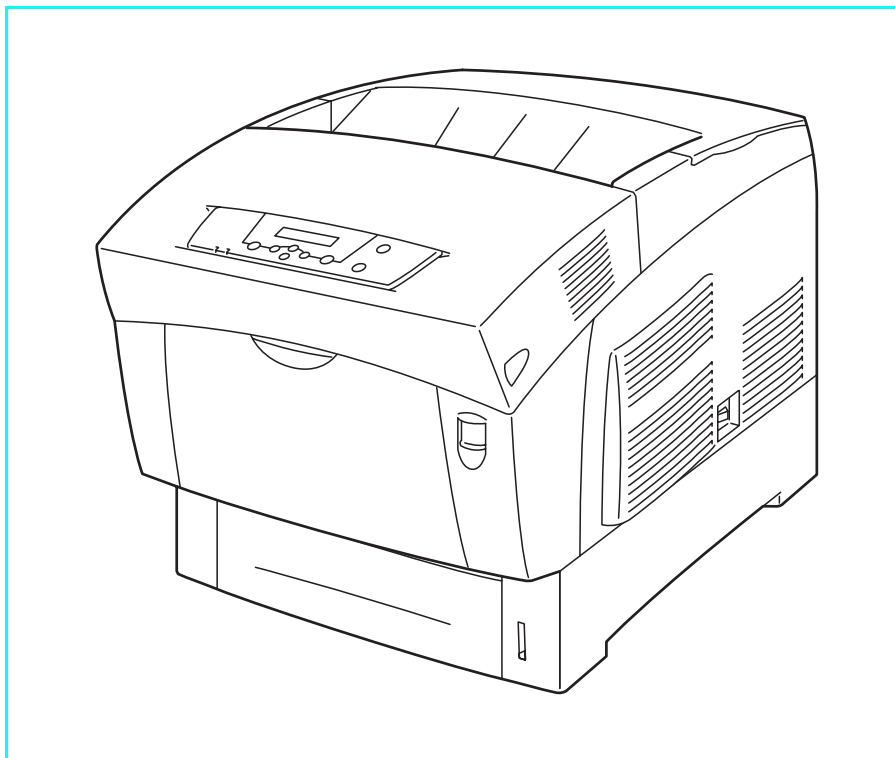


Tally[®]

T8024

User guide



Color Laser Printer

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This software is based in part on the work of the Independent JPEG Group.

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Important

- ① This manual is copyrighted with all rights reserved. Under the copyright laws, this manual may not be copied or modified in whole or part, without the written consent of Tally.
- ② Parts of this manual are subject to change without prior notice.
- ③ We welcome any comments on ambiguities, errors, omissions, or missing pages.
- ④ Never attempt any procedure on the machine that is not specifically described in this manual. Unauthorized operation can cause faults or accidents. Tally is not liable for any problems resulting from unauthorized operation of the equipment.

Preface

Thank you for choosing the T8024.


This is a guide on operating the T8024 and the important points to note. To understand the features fully and to use the machine correctly and effectively, please read this guide before using it.

Keep this guide handy for use as a quick reference on using the machine.

This guide is written for users who are familiar with the personal computers, operating systems, and software compatible with this printer. For operational procedures and information regarding these items, refer to the documentation provided with the various hardware and software that you are using.

It may be a legal offence to print currency notes, certificates of stocks and securities, or any other documents of similar nature, regardless of whether they will be used.

This equipment conforms to the guidelines of the Japan Business Machine Makers Association on the harmonic effects by copiers and other reproduction devices. These guidelines conform to the guides on the harmonic suppressors of electronic appliances and general-purpose machines.

In this manual, safety instructions are preceded by the symbol . Always read and follow the instructions before performing the required procedures.

This equipment is certified as a Class 1 laser product under IEC60825. This means that the machine does not emit hazardous laser radiation. Since radiation emitted inside the machine is completely confined within the protective housings and external covers, the laser beam cannot escape from the machine during any phase of user operation.



As a member of the International Energy Star Program, Tally confirms this product satisfies the requirements for International Energy Star Program standards.

Problem? I don't know what to do!

For situations like this, please read on...

Cannot switch on the printer.

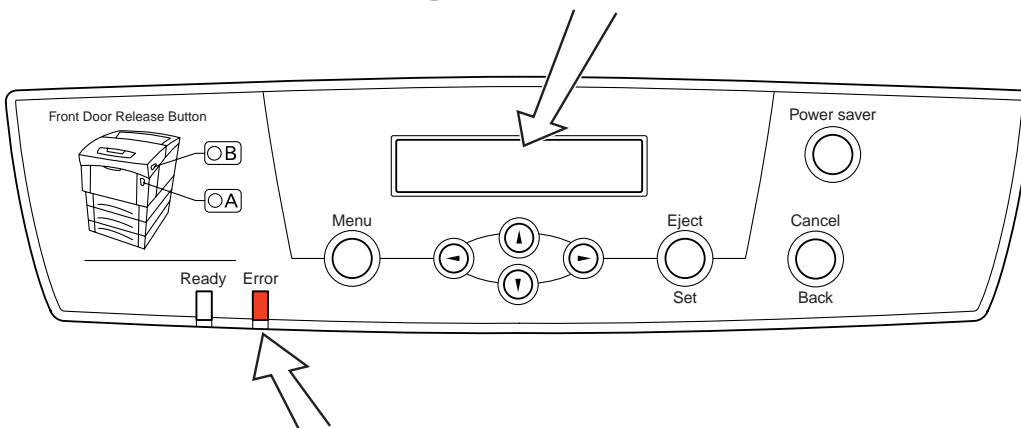
P. 132

The printer does not print.

P. 133

An error message appears on the operation panel.

P. 152



The Error indicator is on or blinking.

P. 160

Print quality is not good.

P. 139



Problem!

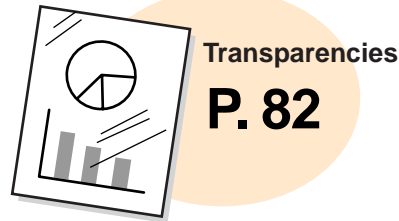
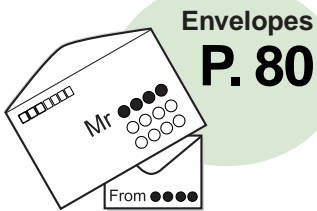
If you are unable to rectify problems with the recommended remedies, contact your service technician or dealer.



I want to stop printing: P. 76

I want to know how to set paper and print:

Custom-size paper
P. 85



Two-sided
printing
P. 88

Two-sided printing
on specialty paper
P. 90

**A paper jam message
appears on the control
panel:**

Feed Jam
Check Tray

P. 172

Duplex Jam
Open Cover B

P. 178

Feed Jam
Check Tray

P. 173

Regi. Jam
Open Cover A

P. 175

Fuser Jam
Open Cover A & B

Feed Jam
Check Tray

P. 179

**I want to replace
consumables:**

Toner cartridge **P. 182**

Drum cartridge **P. 186**

Transfer roller **P. 191**

Using the printer efficiently!

You can do the following with your printer:

See

Help keywords are used in Windows. For information about the contents of Help and how to use it, refer to "3.4 Using Online Help".

Economizing

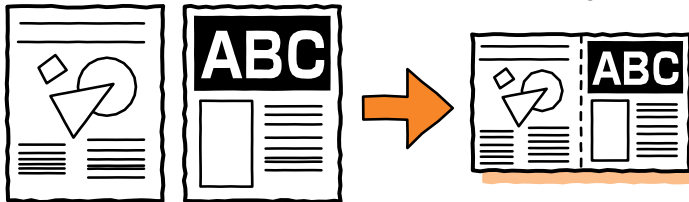
Print on both sides
of the paper

Keyword:
2 sided Print

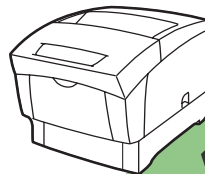
Help

Printing multiple pages on a
single page

Keyword:
Multi-Up



Setting the power
saver mode

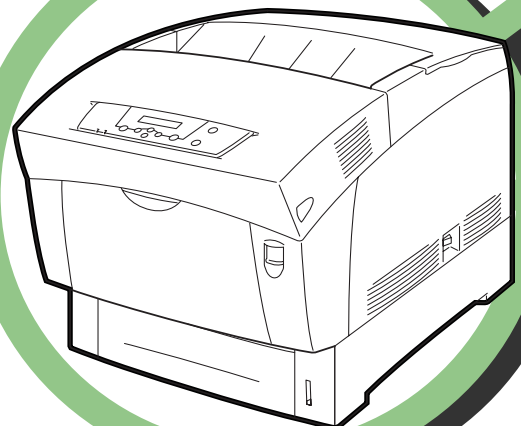


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Adjusting colors

Setting different image
quality levels to suit
your needs

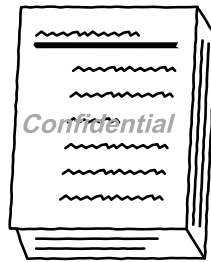
Adjusting tones and
image quality



Printing With Various Functions

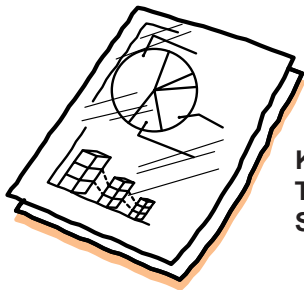
Printing a stamp such as the word "Confidential" as a background to the main printed text

Keyword: Printing a Watermark



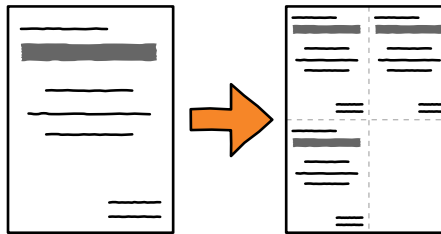
Help

Printing on paper inserted between transparency sheets (Transparency Separators)



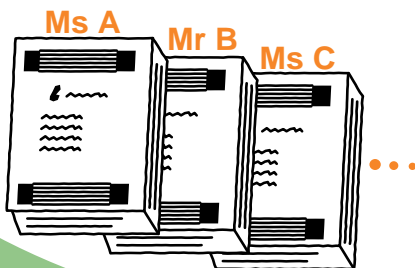
Keyword: Transparency Separators

Printing a single document several times on the same page (Image Repeat)



Keyword: Using Image Repeat to Print a Job

Printing with banner sheets to separate print jobs



Keyword: Placing Banner Sheets Between Jobs

Managing the printer

Managing the printer from a computer

P. 199

Printer operational settings
Managing job logs
Printing reports

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- ◆ For situations like this, please read on...
- ◆ You can do the following with your printer:
- ◆ Type of Manuals
- ◆ Using This Guide
 - Organization
 - Conventions
- ◆ Safety Notes
- ◆ The Objective of the International Energy Star Program

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Type of Manuals

The following literature is provided on the T8024 CD. The manuals are supplied in PDF format, therefore, you need Adobe® Acrobat® Reader™. If necessary, you can install Adobe Acrobat Reader from the T8024 CD.

Quick Start Guide

This section describes the items in the printer package. Read this section when setting up the printer.

User Guide (this book)

This manual describes the printer operation from a user point of view. The loading of drivers and connection to often already configured network connections is covered. Operation of the control panel, handling of consumables, simple fault finding and installation of options is also covered.



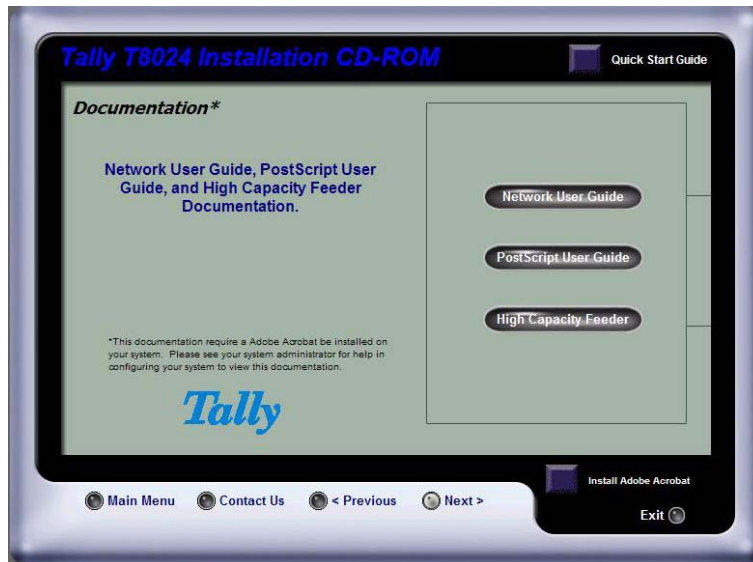
Network User Guide

This manual can be accessed by selecting next from the screen above. It gives details of how to configure and connect the printer to various PC based systems. See the Postscript User Guide for details of installation of the optional PDL emulation, Postscript level 3, onto Macintosh computers.

Using This Guide

Other Manuals

Other Manuals are available for the Postscript Option and the High capacity Feeder.



These manuals can be seen by selecting next from the screen above.

Organization

The present guide is divided into the following nine chapters. A brief outline of each chapter is given below.

Chapter 1 Printer System Settings

Describes the color registration procedures, system requirements, and network settings needed to use the printer.

Chapter 2 Installing the Printer Driver

Describes the procedure for installing software necessary to use the printer (the printer driver) on your computer.

Chapter 3 Basic Printer Operation

Describes the basic functions of the printer and how to use them.

Chapter 4 Loading Paper and Usable Paper Types

Describes the loading methods of the various types of paper compatible with the printer.

Chapter 5 Control Panel

Describes the operation of the control panel and functions that you can set from it.

Chapter 6 Troubleshooting

Describes error messages and their meanings, as well as what to do in case an error message appears.

Also describes common problems that occur during printing and their remedies. Read this chapter to determine the nature of the problem and the best method of dealing with it.

Chapter 7 Clearing Paper Jams

This chapter explains procedures to deal with paper jams.

Chapter 8 Daily Care

Describes the consumables used by the printer, handling precautions, and replacement procedures.

Also, this chapter describes the cleaning procedures required for continued normal operation, printer storage requirements when it is not in use over a long period, and procedures for transporting the printer.

Safety Notes

Appendix

The following information is presented in the appendix.

- Introduction to Options and Consumables
- Control Panel Menu List
- Specifications
- Life Span of Consumables
- Obtaining Product Information
- Precautions and Limitations
- Glossary

Conventions

1. In this guide, "computer" refers to personal computer, Macintosh, workstation, and host device.

2. The following icons are used in this guide.



Indicates important information which you should read.



Indicates additional information about operations or features.



Indicates reference sources.

" ": indicates reference to a chapter or section.

3. The following conventions are used in this guide.

Bold: Indicates selections and all kinds of buttons.

Example: Click **Next**.

Safety Precautions


To ensure safe operation of your printer, make sure you read this section thoroughly before use.


Warning


Warnings alert you to operations that could cause death or serious injury to yourself.

CAUTION

Cautions alert you to operations that could cause bodily injury or material damage.

 This symbol alerts you to procedures that require close attention. Make sure you read and follow the instructions carefully.




 This symbol alerts you to prohibited procedures. Make sure you read the instructions carefully.

 This symbol alerts you to procedures that should be performed. Make sure you perform the procedure after reading the instructions carefully.

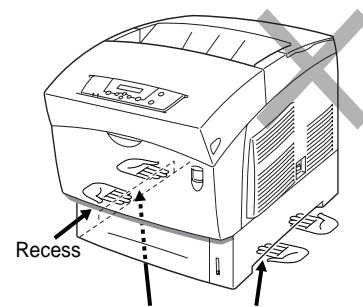
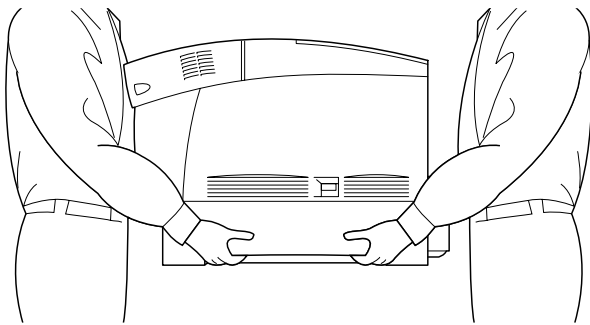


Installing and Relocating Your Printer

CAUTION

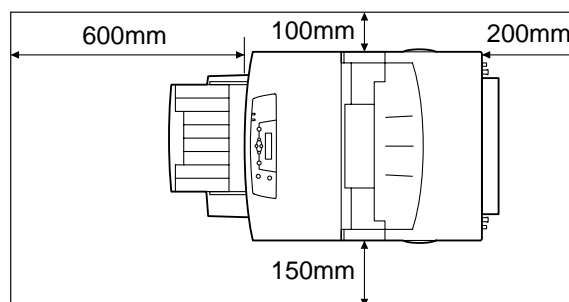
-  Do not place the printer in a hot, humid, dusty, or poorly ventilated environment. Prolonged exposure to these adverse conditions can cause fire or electric shocks.
-  Do not place the printer near heaters or near volatile, flammable, or combustible materials, such as curtains, that may catch fire.
-  Place the printer on a level and sturdy surface that can withstand a heavy weight. If tilted, the printer may fall and cause injuries.

- ! The printer weighs 34.9 kg (77 lbs) fully assembled, therefore make sure that at least two people carry it.
- ! To lift the printer, face the front and back of the printer and, with both hands, grip the recessed areas at the bottom left and right. Never try to lift the printer by gripping any other areas. Lifting the printer by gripping other areas can cause the printer to fall, resulting in injury.



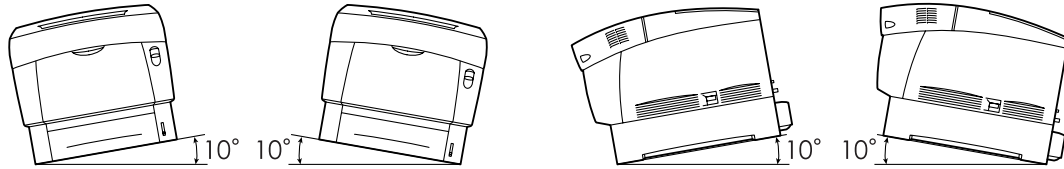
If you hold the printer by the front door, left or right sides, there is a danger of the printer falling.

- ! When lifting the printer, get a firm footing and bend your knees to avoid possible injuries to your back.
- ! The machine has ventilation holes on the left, right, and rear sides. Ensure that the machine is installed with a minimum clearance of 150 mm from the right side, 100 mm from the left side, and 200 mm from the rear side. A poorly ventilated machine can cause excessive internal heat and fire. The accompanying diagram shows the minimum clearances required for normal operation, consumables replacement, and maintenance to ensure your machine operates at peak performance.



- ! When moving the printer, be sure to unplug the power cord from the outlet. If the printer is moved with the power cord connected, it can cause damage to the cord, which could result in fire or electric shocks.

- ⊘ When moving the printer, do not tilt it more than 10 degrees. If tilted excessively, the printer may fall over and cause injuries.



- ! After installing the tray module, lock down the brakes on the casters at the front of the tray module. Failure to lock down the brakes can cause the printer to move unexpectedly, resulting in injury.

Other Precautions

- Operate the printer in a location that meets the following conditions:
Ambient temperature range of 10 to 32°C, relative humidity of 15 to 85% (no condensation)
If operating the printer with an ambient temperature of 32°C, the relative humidity should not exceed 65%. If the relative humidity reaches 85%, the ambient temperature should not exceed 28°C.










Do not place the printer in a room where there are sudden fluctuations in temperature, and do not move the printer from a cold place to a warm humid place. If you do, condensation may occur within the printer and print quality deteriorate.


- Do not place the printer in direct sunlight, as this may damage the printer.
- When installing the printer, do not place it on an uneven surface where it could be tilt more than 5 degrees in any direction in order to prevent trays or consumables from falling out.
- Do not place the printer directly next to an air conditioner or heater, as this affects the temperature inside the printer and can cause damage.

Precautions for Power and Earth Connections


Warning


-  Three power specifications are listed below. The specifications that apply to your printer depend on its configuration. Connect the power plug only to a properly rated power outlet. Otherwise, it can cause fire or electric shocks. If in doubt, contact your dealer.
 - Rated voltage: 100 V
Rated frequency: 50/60 Hz
 - Rated voltage: 110-127 V
Rated frequency: 60 Hz
 - Rated voltage: 220-240 V
Rated frequency: 50/60 Hz
-  Ensure that the plug connection is clean. In a damp environment, a contaminated connector can draw a sufficient amount of current that can generate heat and eventually cause fire over an extended period of time.
-  Always use the power cord provided with your printer. When an extension power cord is required, always use a properly rated cord.
-  Do not attempt to modify, pull, bend, chafe, or otherwise damage the power cord. Do not place a heavy object on the cord. A damaged cord can cause fire or electric shocks.
-  Never touch a power cord with wet hands. This constitutes an electric shock hazard.
-  Stop operation immediately if your printer emits smoke, excessive heat, unusual noise or smell, or if water is spilt onto the printer. These conditions can cause fire. Immediately turn off and unplug the printer, and contact your dealer.


 To prevent fire or electric shocks, follow the instructions below based on your printer's configuration. If in doubt, contact your dealer.
If your machine is a 220-240 V model, there is no need to attach a separate earth line since the earth connection is incorporated in the power line. Plug it into a properly rated outlet.


 If the power cord is broken or insulated wires are exposed, ask your dealer for a replacement. Using a damaged cord can cause fire or electric shocks.

CAUTION

 Do not unplug or replug the printer while it is on. Unplugging a live connector can deform the plug and cause fire.


 When unplugging the printer, grasp the plug instead of the cord. Forcibly pulling on a cord can damage it and cause fire or electric shocks.


 Be sure to switch off and unplug the printer before accessing the interior of the printer for cleaning, maintenance, or fault clearance. Access to a live printer's interior can cause electric shocks.

 Once a month, unplug the printer and check the power cord for the following:

- The power cord is plugged firmly into a receptacle.
- The plug is not excessively heated, rusted, or bent.
- The plug and receptacle are free of dust.
- The cord is not cracked or frayed.

If you notice any unusual conditions, contact your dealer.

 When the printer is not used over an extended period of time, switch it off and unplug it. If an unused printer is left connected to a power source for a long period, degraded insulation can cause electric shocks, current leakages, or fire.

 Switch off the printer before connecting the interface cable or options. Connecting the cable or card with a live printer can cause electric shocks.







Other Precautions

- This printer may interfere with radio or television reception, causing flickering or distortion. This can be determined by turning the printer off and on. To correct interference, perform one, or a combination of the following procedures:

- Move the printer away from TV and/or radio.
- Reposition the printer, TV and/or radio.
- If the printer, TV and/or radio are plugged into the same outlet, unplug them, then plug them into different outlets.
- Reposition the TV and/or radio antennas and cables until the interference stops. For external antennas, consult your local electrician.
- Use coaxial cable with the antennas

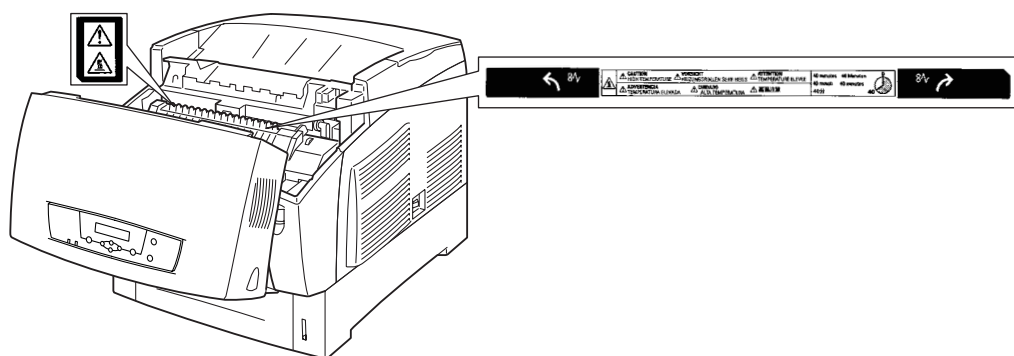
Operating Precautions

Warning

-  Do not place any liquid containers such as vases or coffee cups on the printer. Liquids spilt on the printer constitute a fire and electrical shock hazard.
-  Do not place any metal parts such as staples or clips on the printer. If metal and flammable parts get into the printer, they can short-circuit internal components, and cause fire or electric shocks.
-  If debris (metal or liquid) gets into the printer, turn off and unplug the printer. Contact your dealer. Operating a debris-contaminated printer can cause fire or electric shocks.
-  Never open or remove printer covers that are secured with screws unless specifically instructed to do so in this manual. A high-voltage component can cause electric shocks.
-  Do not try to alter the printer's configuration or modify any parts. An unauthorized modification can cause smoke or fire.
-  This printer complies with the IEC60825 (Class 1) international laser standard. This means that the printer does not present any risk of injury to persons from laser radiation. Various covers confine the laser radiation to the inside of the printer; hence, users cannot incur injury from the laser under normal operating conditions. Removing covers, unless instructed to do so in this manual, can cause injury from laser radiation.

⚠ CAUTION

- ⊘ Never touch a labeled area found on or near the fuser unit. You can burn yourself. If a sheet of paper is wrapped around the fuser roller, do not try to remove it by yourself to avoid injuries or burns. Turn off the printer immediately and contact your dealer.



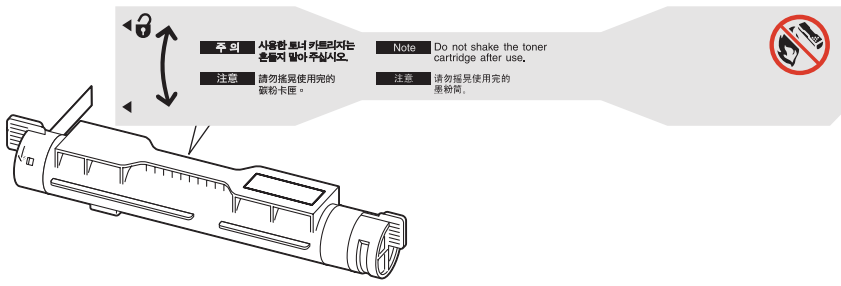
- ⊘ Do not place any heavy objects on the printer. An off-balance printer can fall over or the heavy object can fall, causing injuries.
- ⊘ Do not use highly flammable sprays or solvents in or around the printer, as this can result in fire.
- ⚠ When removing paper jams, make sure no pieces of paper are left inside the printer, as this can cause fire. If the paper is wrapped around the fuser or roller, or you cannot see the jam you are trying to clear, do not attempt to remove the paper by yourself, as this may cause injury or burns. Turn off the printer immediately, and contact the place of purchase.
- ⊘ Do not place magnets near the safety switch of the printer. Magnets can activate the printer accidentally, resulting in injuries.

Other Precautions

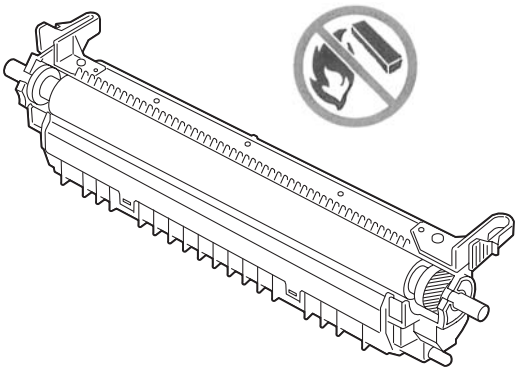
- Refer to this manual for procedures on clearing paper jams and how to resolve any other troubles that may occur.

Notes on Handling Consumables

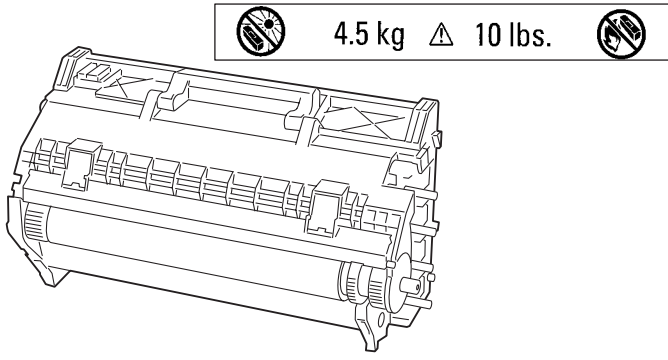
- ⊘ Never throw a toner cartridge into an open flame. It can cause an explosion and injuries.



- ⊘ Never throw a transfer roller cartridge into an open flame. It can cause an explosion and injuries.



- ⊘ Never throw a drum cartridge into an open flame. It can cause an explosion and injuries.



Other Precautions

- Do not open consumables until you are ready to use them. Do not store consumables in the following conditions:
 - In high temperature or humidity
 - Near a naked flame
 - Exposed to direct sunlight
 - Dusty areas

- Before using consumables, read both the operating instructions and precautions on the packaging and the sheet which comes with the consumable.

- Administer emergency first aid as follows:
 - If you get toner in your eyes, rinse them well with plenty of clean water. Consult a physician if necessary.
 - If you get toner on your skin, wash it with soap and water and rinse well.
 - If you inhale toner, leave the area of exposure immediately and gargle with plenty of water.
 - If you swallow toner, induce vomiting and consult your physician immediately.

- When you remove the transfer roller from the printer because the waste toner collection box is full, do not attempt to empty the waste toner box.

- Do not tilt or shake drum cartridges or transfer rollers that has been removed temporarily. Toner may leak and cause damage.

The Objective of the International Energy Star Program

To protect the global environment and conserve energy sources, the International Energy Star Program encourages the following product features. Tally confirms the T8024 satisfies the requirements for this program.

●●● Low Power Mode Feature

This product has a power-saving feature, which switches the machine to the lower mode ("Power Saver Mode 1") automatically if the machine is on and not operated for a certain period of time. In this mode the machine lowers the fuser temperature and saves the power consumption. The default low power mode start time is set at three minutes. You can change this setting from 1 to 120 minutes. See "Chapter 5 Control Panel" of this guide for details.

Note

In addition to "Power Saver Mode 1", this printer features "Power Saver Mode 2", a second power mode that saves even more power.

Chapter

1

Printer System Settings

1.1	Adjusting Color Registration.....	2
1.2	Configuring the Printer	5

1.1 Adjusting Color Registration

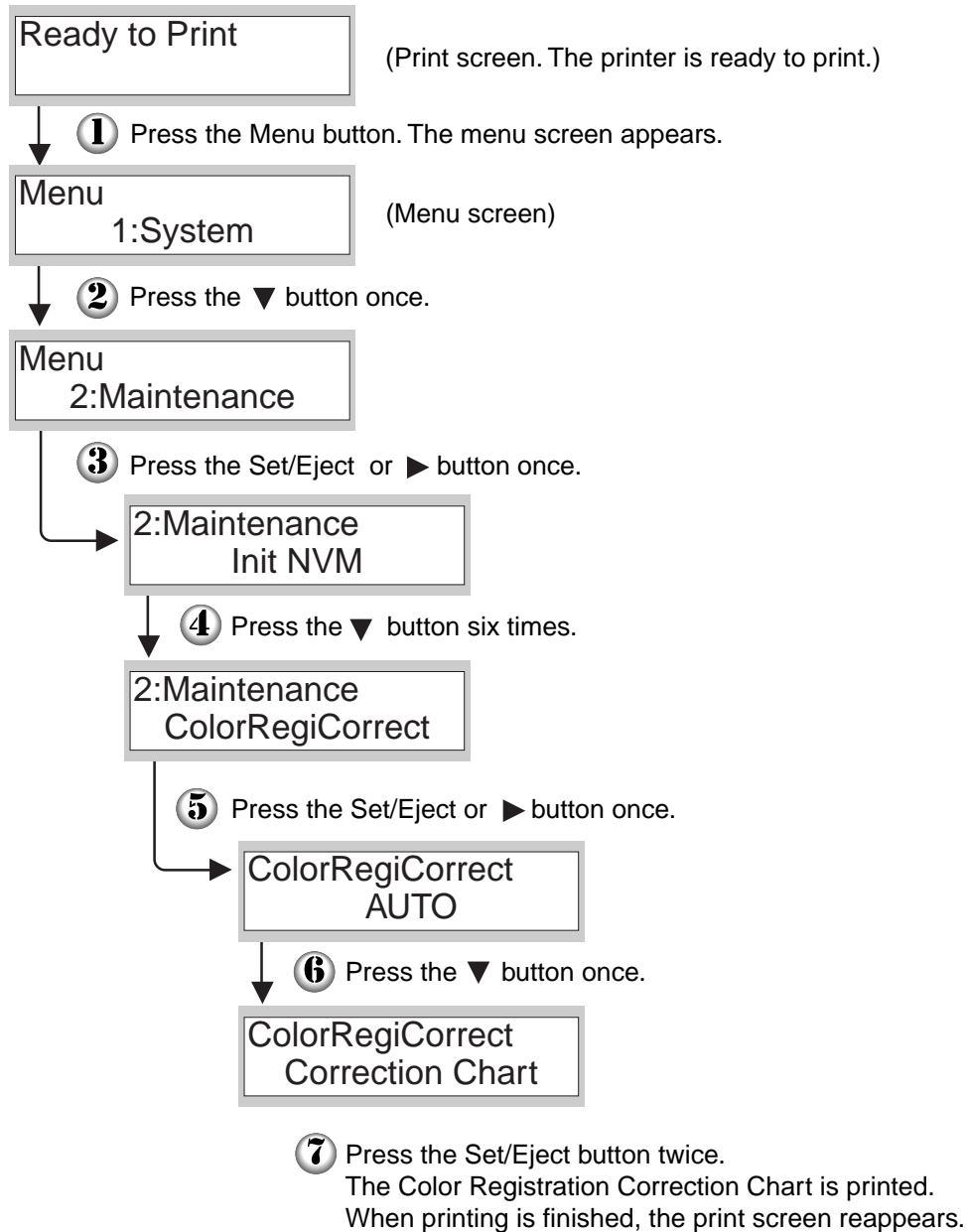
Follow the procedure below to adjust the color registration when you first install the printer or after moving it to a new location.

See

Refer to "5.2 Basic Menu Operation" and "Appendix B Control Panel Menu List" for information about the operation of the control panel.

••• Printing the Color Registration Correction Chart

Use the control panel to print the Color Registration Correction Chart.



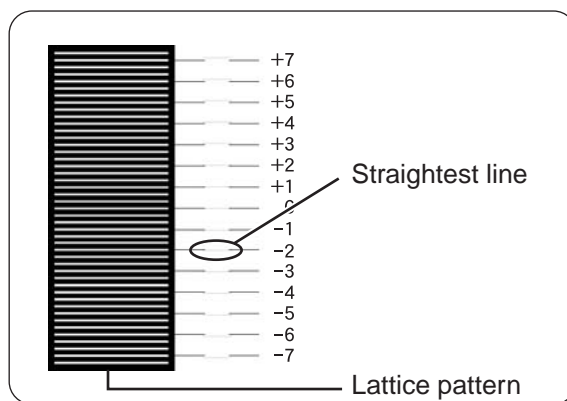
••• Determining Values

From the lines to the right of the Y (yellow), M (magenta), and C (cyan) pattern, find the values of the straightest lines.

Note

You can also use the densest colors of the grid to find the straightest lines. The colors printed at the highest density are those next to the straightest lines.

When "0" is the value nearest the straightest line, you do not need to adjust the color registration. When the value is not "0", follow the procedure outlined in "Entering Values".



••• Entering Values

Using the control panel, enter the values that you found in the Color Registration Correction Chart to make adjustments.

Ready to Print

- ➊ Follow steps ➊ through ➅ on the previous page to display the color registration correction chart settings menu.

ColorRegiCorrect
AUTO

- ➋ Press the ▼ button twice.

ColorRegiCorrect
Enter Number

- ➌ Press the Set/Eject or ► button once.

Continued

Continued from previous page.

Enter Number
Y= 0 M= 0 C= 0

④ Using the ▼ or ▲ buttons, press the buttons until you reach the value (for example, +3) displayed on the chart.

Enter Number
Y=+3 M= 0 C= 0

⑤ Press the ► button once and move the cursor to the next value.

Enter Number
Y=+3 M= 0 C= 0

⑥ Repeat steps ④ and ⑤ to continue adjusting the color registration.

Enter Number
Y=+3 M=+1 C=+2

⑦ Press the Set/Eject button once.

Correction Chart
Ready to Print

⑧ Press the Set/Eject button once.
The Color Registration Correction Chart is printed with the new values.

⑨ Color registration adjustment is complete when the straightest Y (yellow), M (magenta), and C (cyan) lines are next to the "0" line.

LOOK

After printing the Color Registration Correction Chart, do not turn off the printer until the printer motor has stopped running.

Note

If "0" is not next to the straightest lines, determine the values and adjust again.

1.2 Configuring the Printer

This section describes how to confirm your system environment and how to make the necessary printer settings.

1.2.1 Compatible Systems

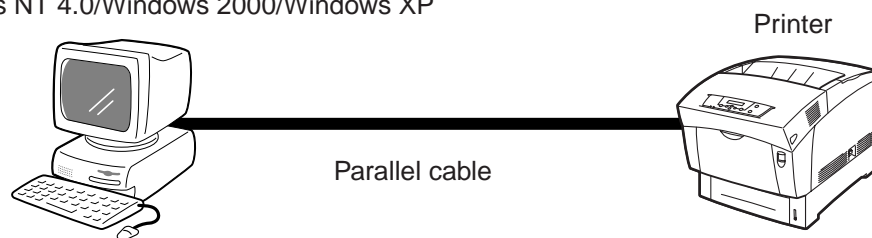
You can use the printer locally when it is connected directly to your computer. You can use the printer through a network when it is connected to a network. Because the printer supports a variety of protocols, it is possible to share it among a number of different networks.

●●● Local Connection

You can connect the printer to your computer with a parallel or USB cable.

<Parallel cable connection>

Windows 95/Windows 98/Windows Me/
Windows NT 4.0/Windows 2000/Windows XP

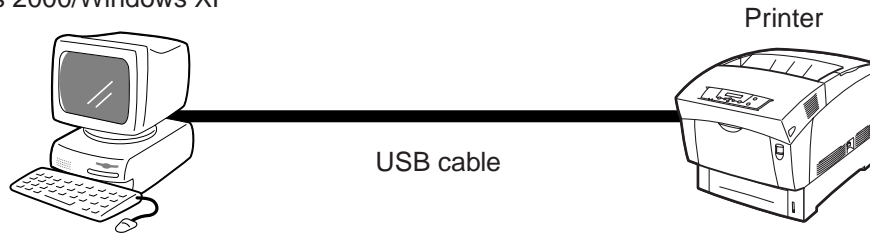


<USB cable connection>

You can use a USB cable to connect the printer if any of the conditions below are met: However, we cannot guarantee the normal operation of all USB compatible equipment.

- Computers running preinstalled Windows Me, preinstalled Windows 98 Second Edition, preinstalled Windows 2000, or preinstalled Windows XP.

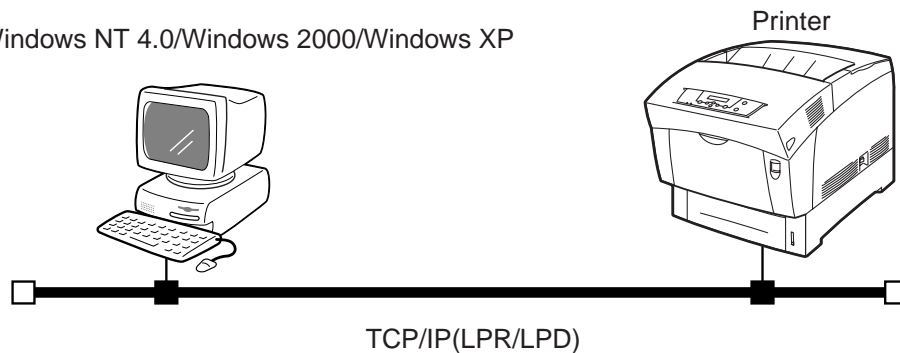
Windows 98 Second Edition/Windows Me, using supplied USB driver, see below
Windows 2000/Windows XP



●●● TCP/IP (Windows NT 4.0/Windows 2000/Windows XP)

The printer supports TCP/IP (LPD) protocol, allowing you to print by sending data through an lpr port directly to the printer from computers running Windows NT 4.0, Windows 2000, or Windows XP. To do this, you need to set the IP address of the printer and the Windows NT 4.0, Windows 2000, or Windows XP computer.

Windows NT 4.0/Windows 2000/Windows XP



■ In Windows 2000/Windows XP the following are possible:

- The printer supports port 9100, allowing you to print by sending data from the designated port to the printer.
- With the use of the optional network protocol expansion card the printer supports IPP, allowing you to print by specifying the URL of the printer and sending data to it through the Internet.

●●● TCP/IP (Windows 95/Windows 98/Windows Me)

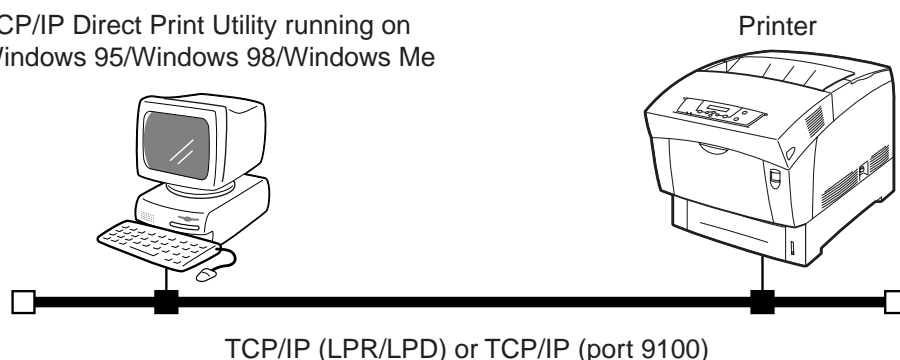
Use the TCP/IP Direct Print Utility to print from Windows 95, Windows 98, or Windows Me.

The TCP/IP Direct Printer Utility is a program that sends print data from the computer directly to the printer through a network, without the need to go through a network print server.

To do this, you need to set the IP address of the printer and the Windows 95, Windows 98, or Windows Me computer.

The TCP/IP Direct Print Utility protocol also works with LPD and port 9100.

TCP/IP Direct Print Utility running on
Windows 95/Windows 98/Windows Me



■ **With Windows Me setup for IPP, the following types of printing are possible:**

The printer, by use of an optional network expansion card, supports IPP, allowing you to print by specifying the URL of the printer and sending data to it through the Internet.

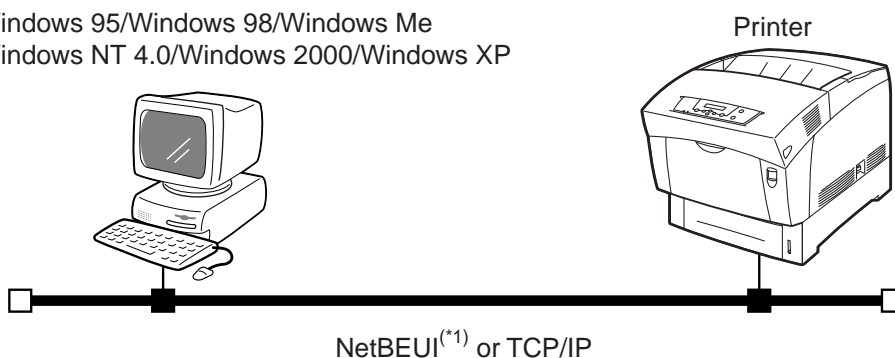
●●● **SMB (Windows network)**

Installing an optional network expansion card enables the printer to use the SMB (Server Message Block) protocol. The SMB protocol allows computers running Windows 95, Windows 98, Windows Me, Windows NT 4.0, Windows 2000, and Windows XP to share files and printers. Using the SMB protocol means that you do not need to use a server. Printing is carried out by sending data directly to the printer.

If using TCP/IP on a network which includes a server, the recommended way of sharing the T8024 printer is to connect the printer to the server using either port 9100 or lpr and then sharing the printer from a server. This means that the optional Network protocol expansion card, required for SMB printing, would not be required. See network user guide for more details.

The SMB transport protocol can be NetBEUI or TCP/IP. However, Windows XP does not support NetBEUI.

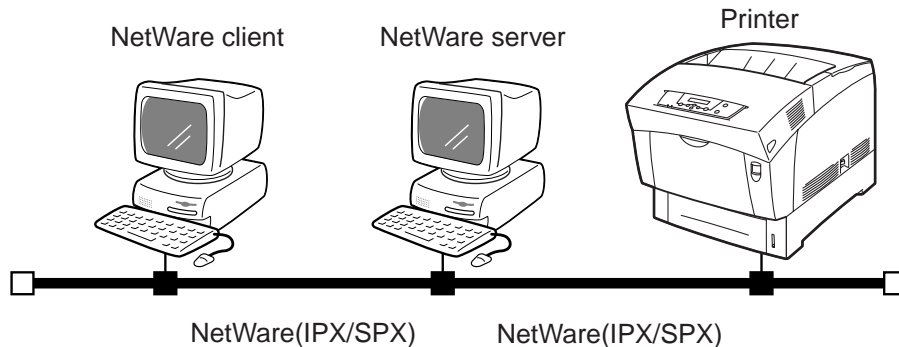
Windows 95/Windows 98/Windows Me
Windows NT 4.0/Windows 2000/Windows XP



(*1) Windows XP does not support NetBEUI.

••• NetWare®

Installing an optional network expansion card enables the printer to use IPX/SPX protocol. In a network environment using NetWare versions 4.1, 4.11, 4.2, or 5.1 from Novell Inc., printing is performed from NetWare client computers.



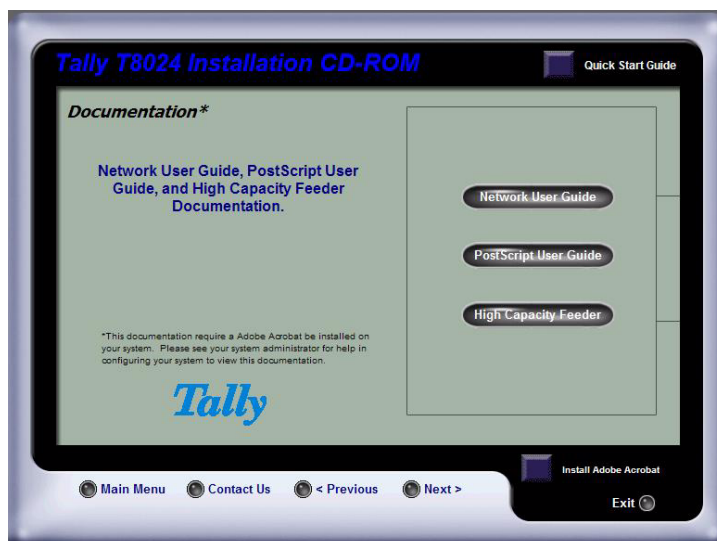
••• Printing from a Macintosh Computer

The optional PostScript3 kit is required in order to print from a Macintosh computer.

When the printer is connected to the Macintosh computer by USB cable, printing is possible using the Adobe PostScript driver.

Further, with the optional network expansion card installed, the printer can be connected to an EtherTalk network. Printing is then possible from Macintosh computers that are connected to the network.

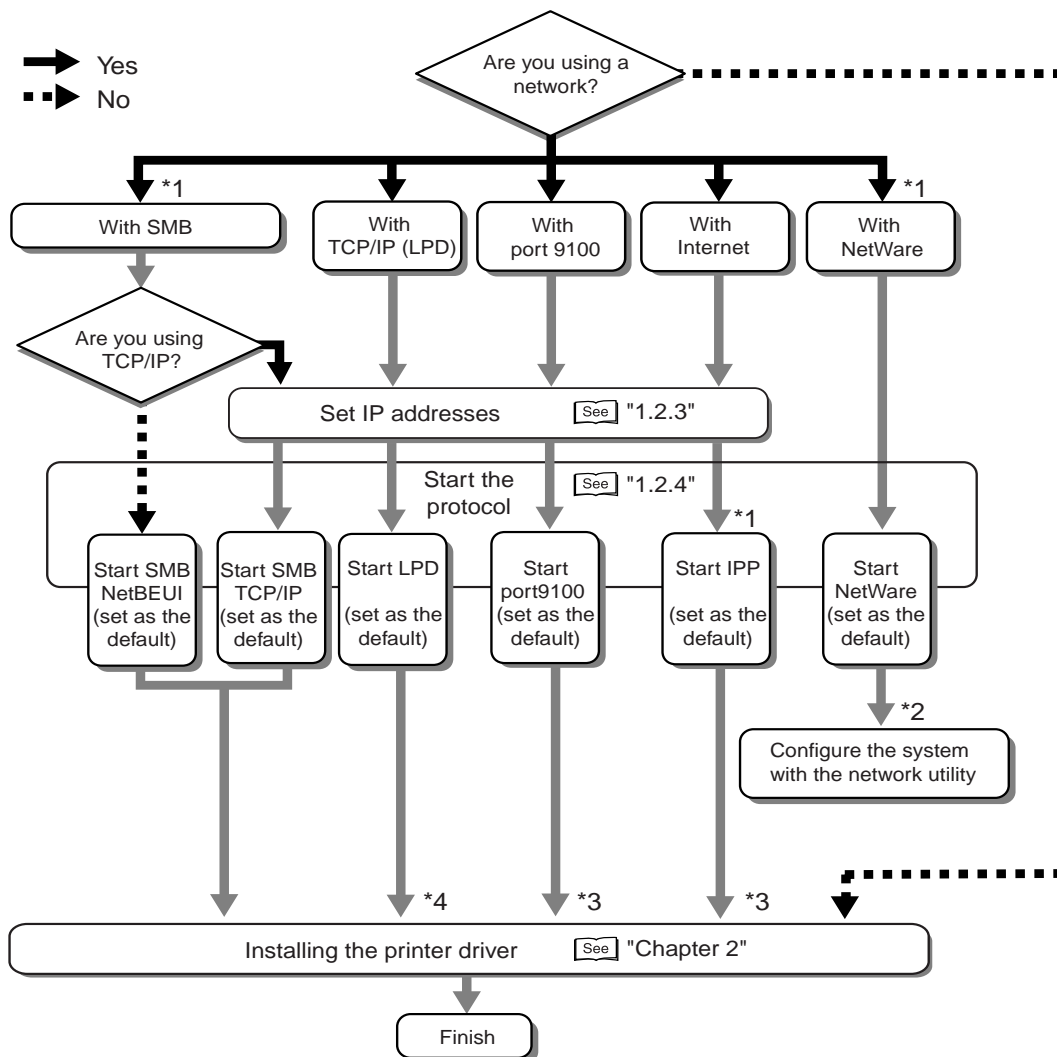
See the Postscript User Guide for details of installation of the optional PDL emulation, Postscript level 3, onto Macintosh computers.



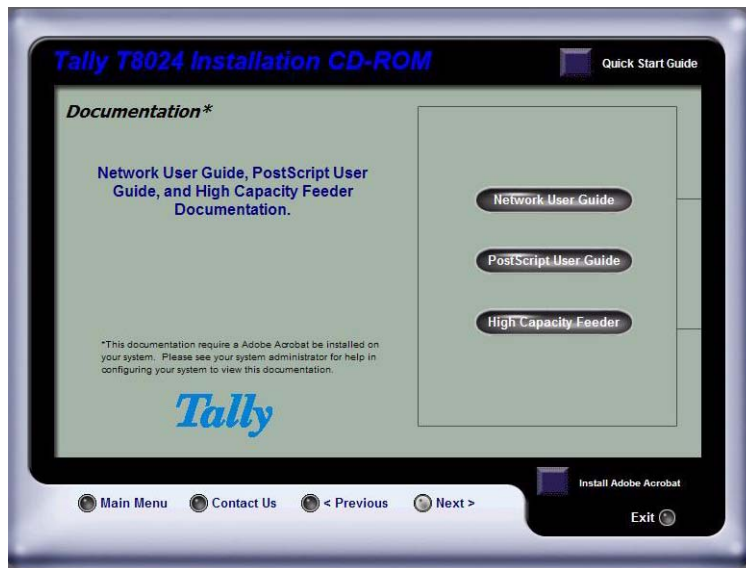


1.2.2 Printer Configuration Flow

This section describes the flow of printer configuration. Refer to the flow chart and confirm that each requirement is met, according to your needs.



- *1 To use these protocols you need an optional network expansion card.
- *2 Refer to "Configuring in NetWare Environment" in the Network User Guide.
- *3 Refer to "Configuring in TCP/IP Environment" in the Network User Guide.
- *4 Windows NT 4.0, Windows 2000, and Windows XP allow you to share the printer. For details about how to share the printer and printing from client computers, refer to "Configuring in TCP/IP Environment" in the Network User Guide.



••• Cases When You Should Refer to the Network User Guide

The following network functions are provided with the printer. For details about these functions, refer to the Network User Guide on the CD-ROM provided with the printer.

■ In a variety of network environments, the printer gives you flexibility to:

- In a TCP/IP system...
 - Have the printer's IP address managed by a DHCP server.
 - Register the printer on a WINS server.

LOOK

The IP address will change from time to time when you use DHCP, so periodic confirmation of the IP address is necessary. An optional network expansion card is required in order to use DHCP in a WINS environment.

- In an SMB system... Change the host name or workgroup name.

■ Using Internet Services in a TCP/IP system

This enables you to display the printer status and make various settings from a Web page. This function is called "Internet Services".

■ The printer has an SNMP agent function for use in TCP/IP and NetWare systems.

With the SNMP function active (active by default), you can control the printer from an SNMP manager.

Also, with the Simple Status Notification function, you can check the status of the printer from your computer.

1.2.3 Setting the IP Address

This section describes the procedure for setting the IP address, subnet mask, and gateway address from the control panel of the printer. Follow the procedure below.

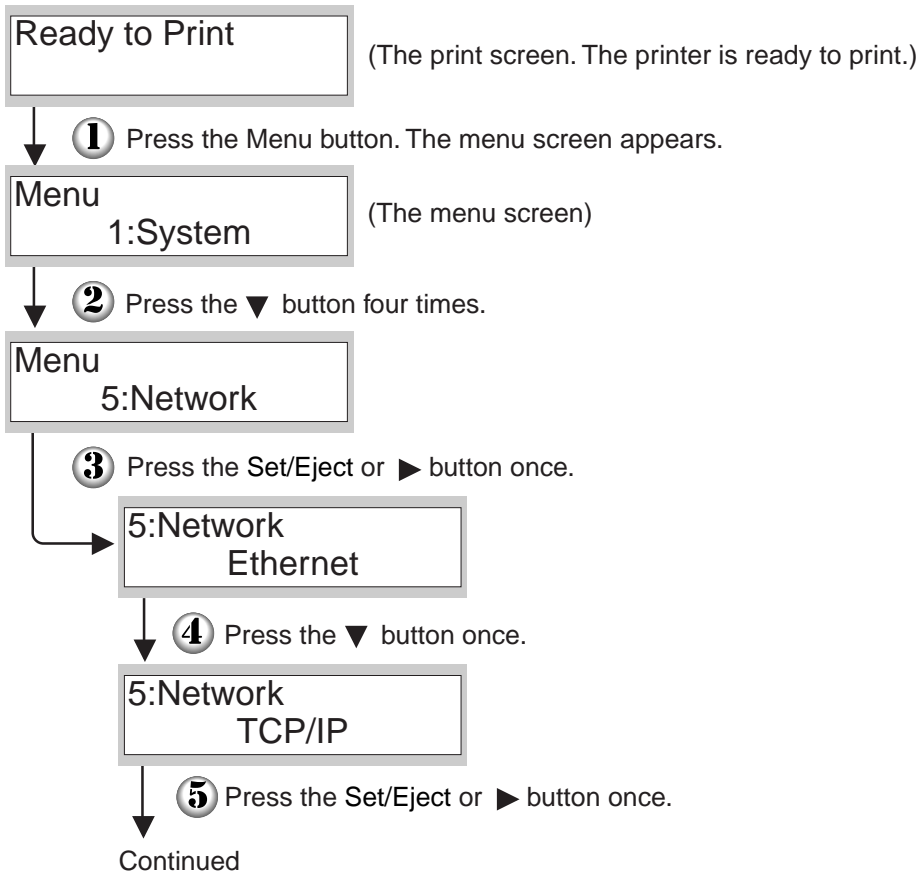
LOOK

IP addresses are managed throughout the system as a whole. Specifying the wrong IP address can affect the entire network. Before setting an IP address, consult your system administrator.

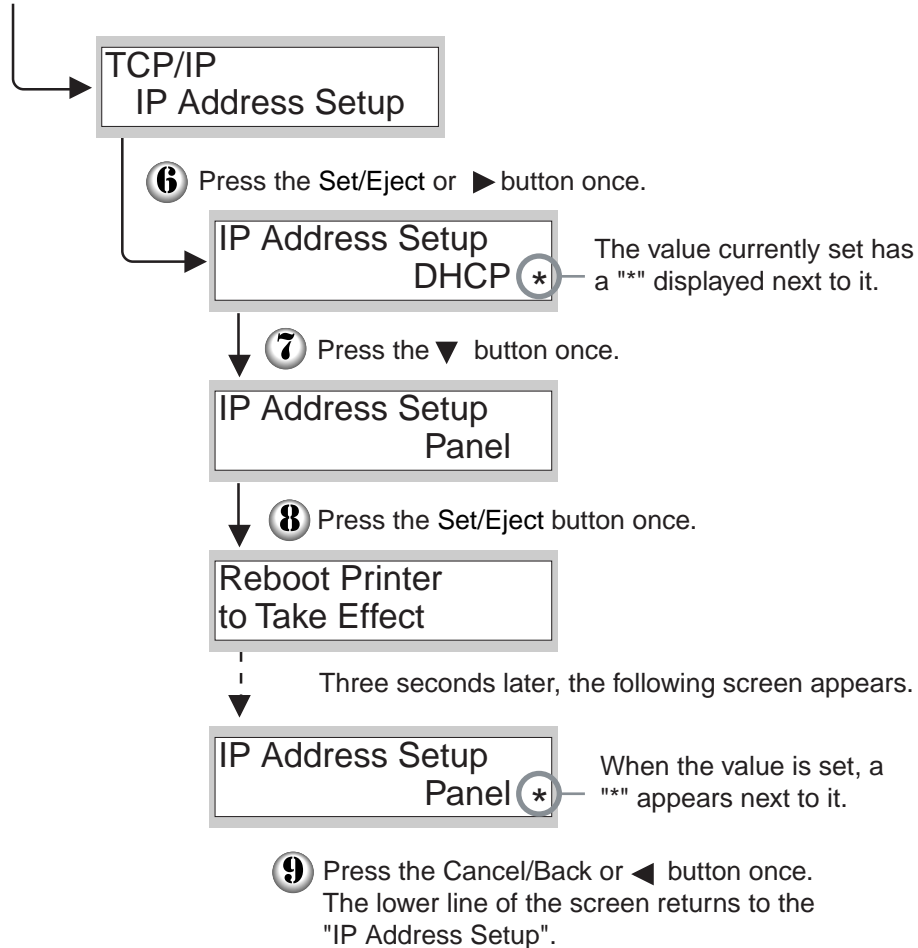
Note

Refer to "5.2 Basic Menu Operation" and "Appendix B Control Panel Menu List" for information about operation of the control panel.

●●● Set the IP Address Acquisition Method to Panel.



Continued from previous page.



LOOK

Only restart the printer after setting the gateway address at the last step. Continue to the next step without restarting the printer.

●●● Setting the IP Address

Note

The IP address consists of four separate values (base 10) separated by decimal points. The four values can be set anywhere between 0 and 255.

Continued from the previous step

Example:

- IP Address "129.249.242.179"
- Subnet Mask "255.255.255.0"
- Gateway Address "129.249.242.254"

TCP/IP
Setup ip address

10 Press the ▼ button once.

TCP/IP
IP Address

11 Press the Set/Eject or ► button once.

IP Address
000. 000. 000. 000 *

12 Using the ▲ or ▼ button, press the buttons until the desired value (for example, 129) appears. You can hold down the buttons to change the value in increments of 10.

IP Address
129. 000. 000. 000

13 Press the ► button once and move the cursor to the next value.

IP Address
129. 000. 000. 000

14 Repeat steps 12 and 13 to finish setting the IP address.

IP Address
129. 249. 242. 179

15 Press the Set/Eject button once.

Reboot Printer
to Take Effect

Three seconds later, the following screen appears.

IP Address
129. 249. 242. 179 *

16 Press the Cancel/Back or ◀ button once. The lower line of the screen returns to "IP Address".

When you do not understand the menu screens displayed or at which level in the menu tree the displayed screen is, refer to Appendix B "Control Panel Menu List".

••• Setting the Subnet Mask

Continued from the previous step

TCP/IP
IP Address

17 Press the ▼ button once.

TCP/IP
Subnet Mask

18 Press the Set/Eject or ► button once.

Subnet Mask
000. 000. 000. 000 *

19 Set the required subnet mask using the same key presses detailed in steps 12 to 15 shown above

Subnet Mask
255. 255. 255. 000 *

20 Press the Cancel/Back or ◀ button once.
The lower line of the screen returns to "Subnet Mask".

••• Setting the Gateway Address

Continued from the previous step.

TCP/IP
Subnet Mask

21 Press the ▼ button once.

TCP/IP
Gateway Address

22 Press the Set/Eject or ► button once.

Gateway Address
000. 000. 000. 000 *

23 Set the required Gateway Address using the same key presses detailed in steps 12 to 15 shown above.

Gateway Address
129. 249. 242. 254 *

24 The panel will advise "Reboot Printer to take effect."
Power the printer off, wait 20 seconds, power it back on.

1.2.4 Setting the Protocols

LOOK

When the printer is shipped from the factory, all protocols except "FTP" are "Enabled" by default. You do not need to perform the operations described in this section when you connect a new printer to a network for the first time.

This concludes the Printer Settings list. Move on to "1.2.5 Checking Settings".

When you want to use the printer as a network printer, you need to set the right protocols on the printer.

- For TCP/IP(LPD) → "LPD" protocol
- For Port 9100 → "Port9100" protocol
- For IPP → "IPP" protocol
- For SMB (transport protocol: TCP/IP) → "SMB TCP/IP" protocol
- For SMB (transport protocol: NetBEUI) → "SMB NetBEUI" protocol
- For NetWare → "NetWare" protocol

Follow the procedure below.

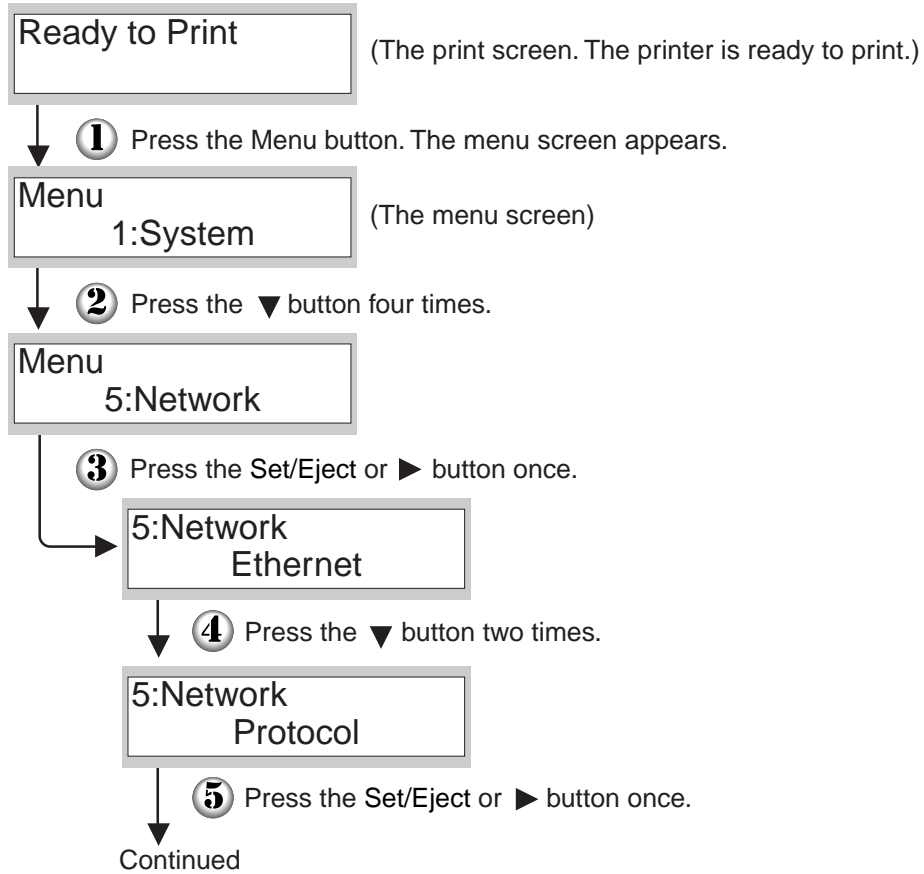
Note

If you do not have an optional network expansion card, the following protocols do not appear:

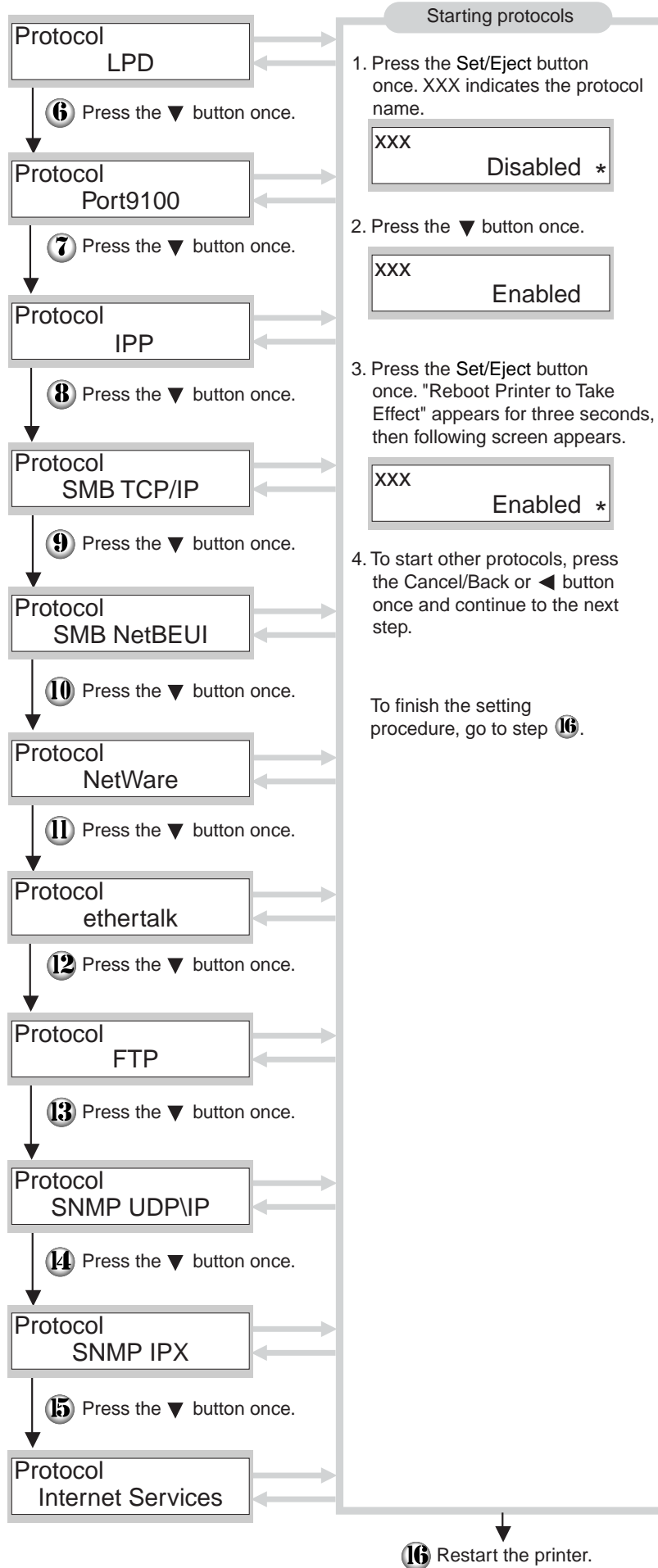
- SMB TCP/IP
- SMB NetBEUI
- NetWare
- IPP
- Ethertalk
- SNMP IPX

See

Refer to "5.2 Basic Menu Operation" and "Appendix B Control Panel Menu List" for information about the operation of the control panel.



Continued from previous page.



1.2.5 Checking Settings

Print the Printer Settings list to check the content of printer settings. The Printer Settings list also contains information that is required when configuring computers for printing. Use the list to confirm that settings on the printer and the computer match.

See

For details about printing the list, refer to "8.4.1 Confirming Printer Configuration and Network Settings".

••• Example of a Printer Settings List

Use the sample Printer Settings list on the following page as a guide when confirming the printer's configuration.

Note

The sample Printer Settings list shown on the following page is from a printer with an optional network expansion card installed.

Printer Settings

General

Total Number of Prints	15sheets
Drum Counter	11counts
Memory Capacity	320Mbyte
Printer Language	PCL6:200308222013 PS:200306270930
Number of Fonts Available	For PCL6 Roman:80fonts For PostScript Roman:136fonts
PostScript Version	3010.108
PostScript Serial Number	3702ff45
F/W Version	200309121333
Boot Version	200306271542
IOT Version	1.1.1(1.1.4)
DACS Version	200306261638
PS CRD Version	200306270932

Network

F/W Version	6.81
Ethernet Address	08:00:37:02:ff:45
Ethernet Settings	100Base-T Full(AUTO)
TCP/IP Settings	Panel
IP Address	172. 20. 70. 64
Subnet Mask Address	255.255. 0. 0
Gateway Address	172. 20. 0.253
IPX/SPX Settings	
IPX Frame Type	802.2(AUTO)
Network Address	00000000:08003702ff45
Protocol	LPD,Port9100,IPP SMB,NetWare® EtherTalk® FTP,SNMP Internet Services Off
IP Filter	

Check the IP address

Printer Options

Paper Tray	Tray1,2,3,Manual Tray
Optional Tray Module	2-Tray Module

Parallel

ECP	On
-----	----

LPD

Port Status	On
-------------	----

Port9100

Port Status	On
-------------	----

IPP

Port Status	On
-------------	----

SMB

Port Status	On
TCP/IP	On
NetBEUI	On
Host Name	BRN_40152D
Work Group Name	WORKGROUP

NetWare®

Port Status	On
Active Mode	DS-PServer Mode
Device Name	BRN_40152D
Trec	
Context	

EtherTalk®

Port Status	On
Printer Name	BRN_40152D_P1_AT
Zone Name	unknown(*)
Printer Type	LaserWriter

FTP

Port Status	On
-------------	----

SNMP

Port Status	On
UDP/IP	On
IPX	On

Internet Services

Port Status	On
-------------	----

These settings must be made on the computer

Check the protocol port status

Adobe, PostScript, PostScript1, Adobe Type Connection, PostScript logo are trademark of Adobe Systems Incorporated
 EtherTalk is a registered trademark of Apple Computer Inc.
 NetWare is a registered trademark of Novell Inc.



Chapter

2

Installing the Printer Driver

2.1	After Setting up the Printer.....	22
2.2	Installing the Printer Driver (Windows 95/Windows 98/Windows Me)	25
2.3	Configuring the TCP/IP Direct Print Utility	32
2.4	Installing the Printer Driver (Windows NT 4.0/Windows 2000/Windows XP/Windows 2003)... 39	
2.5	Setting Up the USB Port.....	51

2.1 After Setting up the Printer

Configure the computer after you have set up the printer.

When the printer is used as a local printer, install the printer driver onto the computer connected to the printer. If it is used as a network printer it is normal to first install the printer driver to the computer connected to the printer and then share it to other computers. In several places throughout this chapter it is necessary to run the T8024 Auto install CD-ROM. It is recommended that all other applications are closed down before inserting the CD-ROM.

2.1.1 The PCL6 Printer Drivers

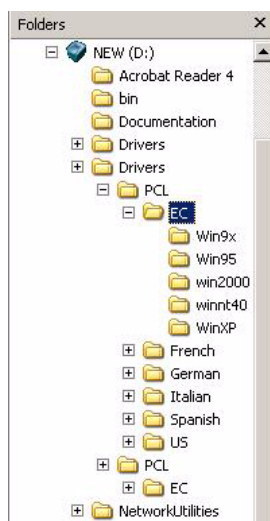
A printer driver is software that converts print data or instructions from the computer to data interpreted by the printer.

The drivers for the following operating systems (OS) are available for the printer:

- Windows 95
- Windows 98
- Windows Millennium Edition
- Windows NT 4.0
- Windows 2000
- Windows XP

The printer drivers are stored inside and run from the Tally T8024 auto run cd. If the CD does not either auto run or manually run by running the setup program you can add the printer drivers and utilities by searching for the relevant files on the cd.

To install the printer drivers select ADD printer and point to the correct language and operating system. There are drivers for windows 95 and separate ones for windows 98/ME. In the folders below select EC for english speaking countries supporting A4 paper and US for those supporting letter size paper.



Note

- The printer driver for Windows NT 4.0 is for Intel x86 version NT 4.0.
- You can use the printer driver for Windows 98 on Windows Me.
- You can use the printer driver for Windows 2000 on Windows XP.

There is reference to the Network User Guide throughout this section. This is linked from the additional documentation page.



Obtaining the latest printer driver

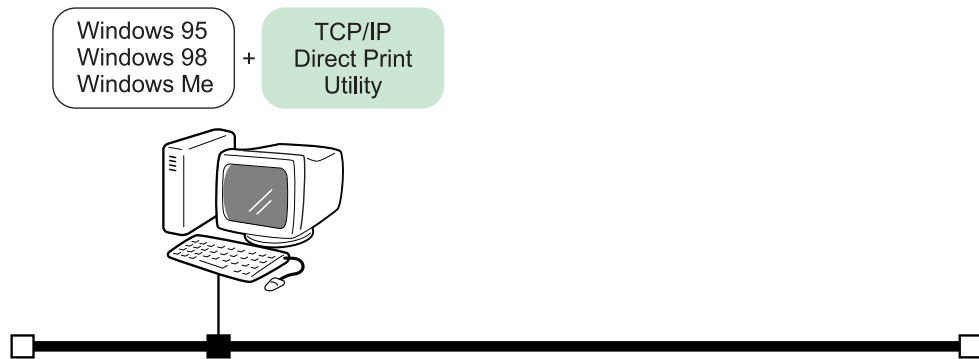
There may be new printer drivers with future upgrades and you can download the latest version of printer driver from the Tally home page.

2.1.2 Using the TCP/IP Direct Print Utility

The TCP/IP Direct Print Utility is software for printing print data sent from a computer directly to a printer on the network, without going through any server. The TCP/IP Direct Print Utility is available on the Tally T8024 CD-Rom. This manual assumes that the TCP/IP Direct Print Utility will be used when printing from Windows 95, Windows 98 or Windows Me in a TCP/IP environment.

See

Network User Guide on the Tally T8024 CD-Rom for information on the TCP/IP Direct Print Utility



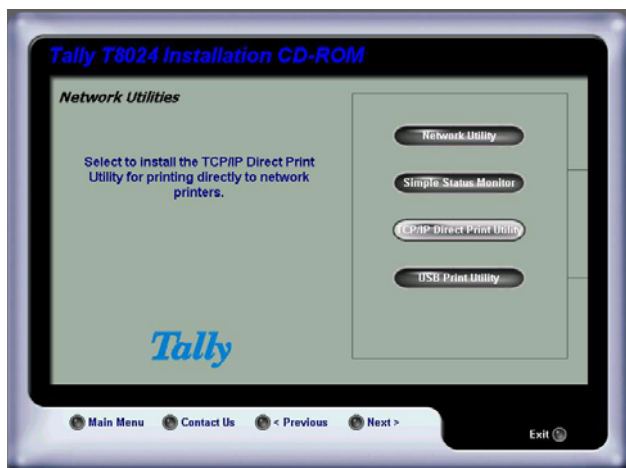
LOOK

To install the TCP/IP Direct Print Utility, the computer must meet the following requirements:

- Set the computer name in ASCII characters (single-byte alphanumeric letters in upper or lower case/numerals/hyphen (-)/underscore (_)).
- Installed with TCP/IP protocol

See

If TCP/IP is not installed, refer to the microsoft manuals or help files.



2.2

Installing the Printer Driver (Windows 95/Windows 98/ Windows Me)

The procedure for installing the T8024 printer driver onto Windows 95/Windows 98/Windows Me is described in this section.

Here, we will use Windows 98 as an example. Once the driver is installed, see the Network User manual for details of connecting the printer over networks.

••• Installing the Printer Driver

Procedure

- 1** Power on the printer.
- 2** Power on your computer running Windows 98.
- 3** For Netware environments, log on to the target file server.
- 4** Insert the T8024 Auto Installer CD into your CD-ROM drive.

Note

When the printer is connected to the computer, a dialog box indicating that new hardware has been detected maybe displayed when you activate Windows 98. In this case, click Cancel to close the dialog box.

- 5** Click the I Accept button.
- 6** Click the Install PCL Driver or Install PostScript Driver button to start the driver installation.

Note

When the PostScript installer prompts you to select a PPD, browse to your CD-ROM and look in the \Drivers\PS folder and select the appropriate. In addition, the optional PostScript Kit must be installed in the printer in order to print using the PS driver.

- 7** Click Exit when the driver installation is complete.

This installs the Tally T8024 printer onto lpt1:

8 Click the **I accept** Button.



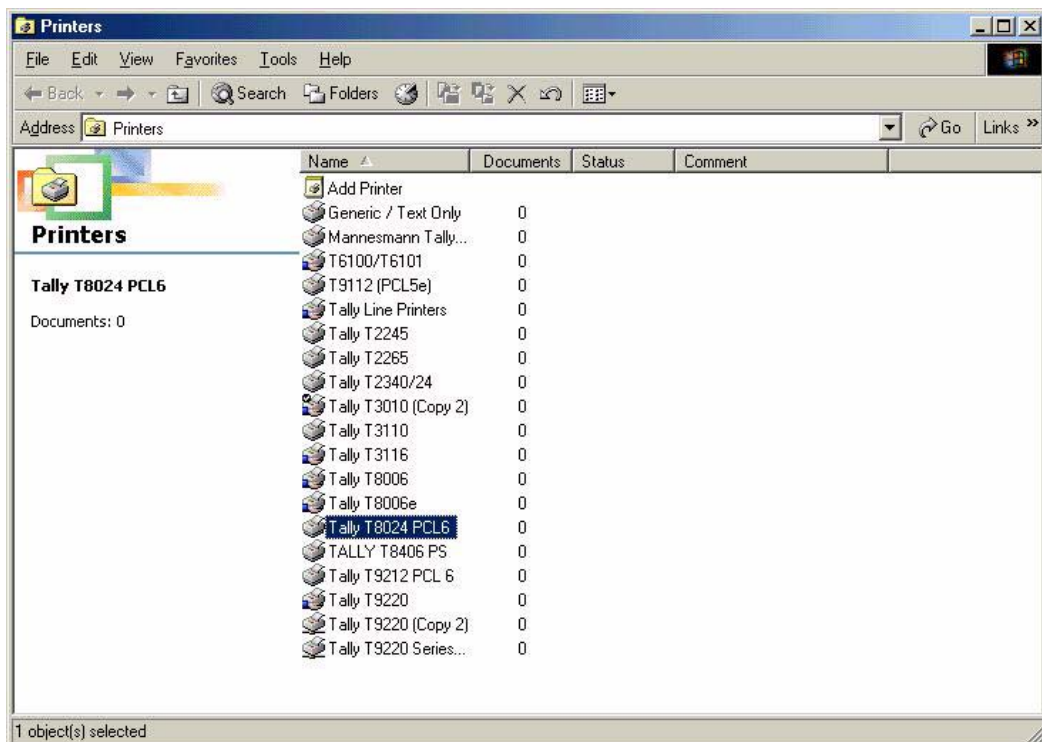
The Tally Setup Menu is displayed.

9 Click **Install PCL Driver**.

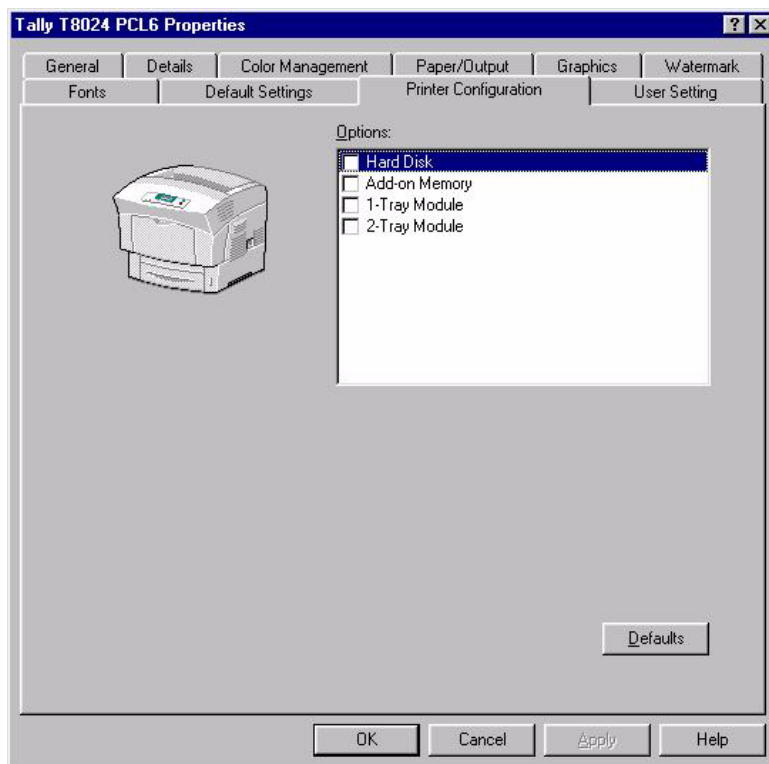


10 Select **OK**.**••• Specify options Installed****Procedure**

- 1** Select **Start, Settings, Printers**. Select the **T8024**, right mouse click and select properties.

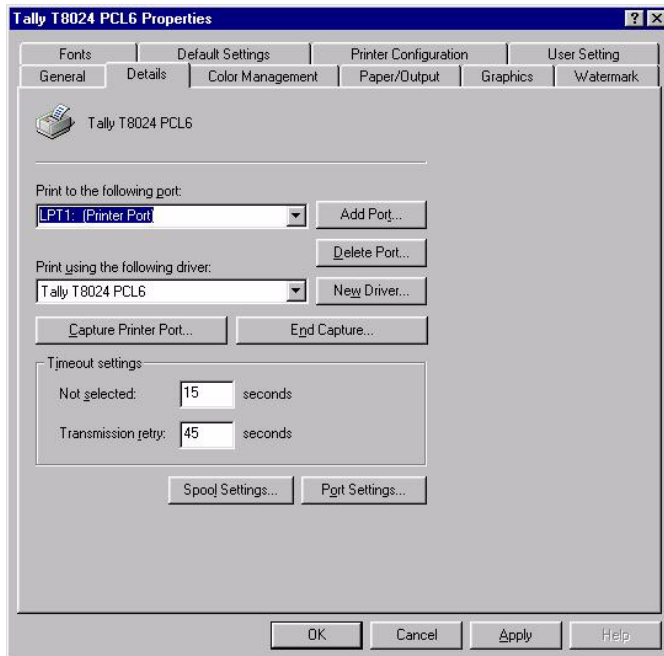


- 2 Select the printer configuration tab and select any options which have been added to the printer and press **OK**.

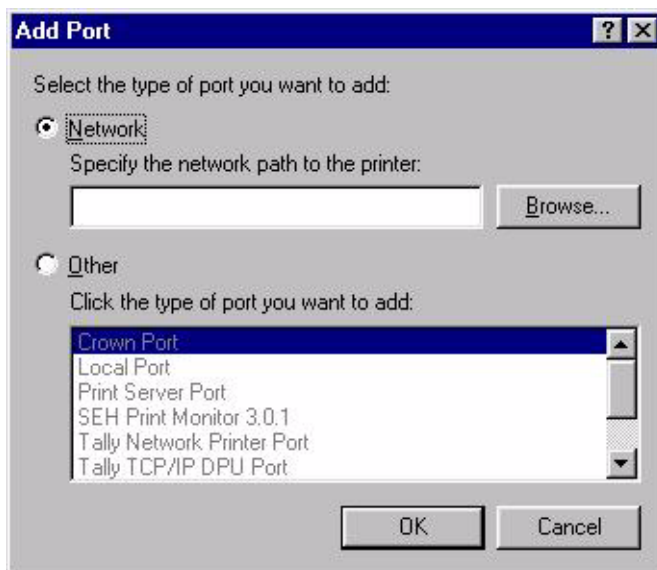


- 3 If you require this printer to be the default printer, select it and then right click it and select the option set as default.

- 4 Select the **Details** tab. This confirms that the T8024 has been correctly installed onto the lpt1 port.



If using the printer in either a SMB or Netware environment and the printer has been configured for that environment, see the network user guide, select add port then select **Network**. See section 2.5 in this chapter if using USB or section 2.3 TCP/IP.



■ **When Network is selected:**

Select a printer or print queue icon from the network list by following the procedure described below.

For SMB environment

- ① From the network list, search and select the printer. The printer will be displayed as "host name-p" and will be under the host name icon. The factory default for the workgroup name and host name is "Workgroup" and "TLnnnnnn" (nnnnnn: lower six digits of the Ethernet address of the printer) respectively.

Note

When you do not know the workgroup name and host name of the printer, either check with the network administrator, or print out the Printer Settings list to confirm. Refer to "8.4.1 Confirming Printer Configuration and Network Settings".

- ② Click **OK**.

For NetWare environment

- ① From the network list, search and select the printer. The print queue is displayed under the NetWare file server icon.

Note

When you do not know the print queue name, check with your network administrator.

- ② Click **OK**.

5

When using the TCP/IP Direct Print Utility to print, proceed to the next section "2.3 Configuring the TCP/IP Direct Print Utility"

If connected with a USB cable, move on to "2.5 Setting Up the USB Port".

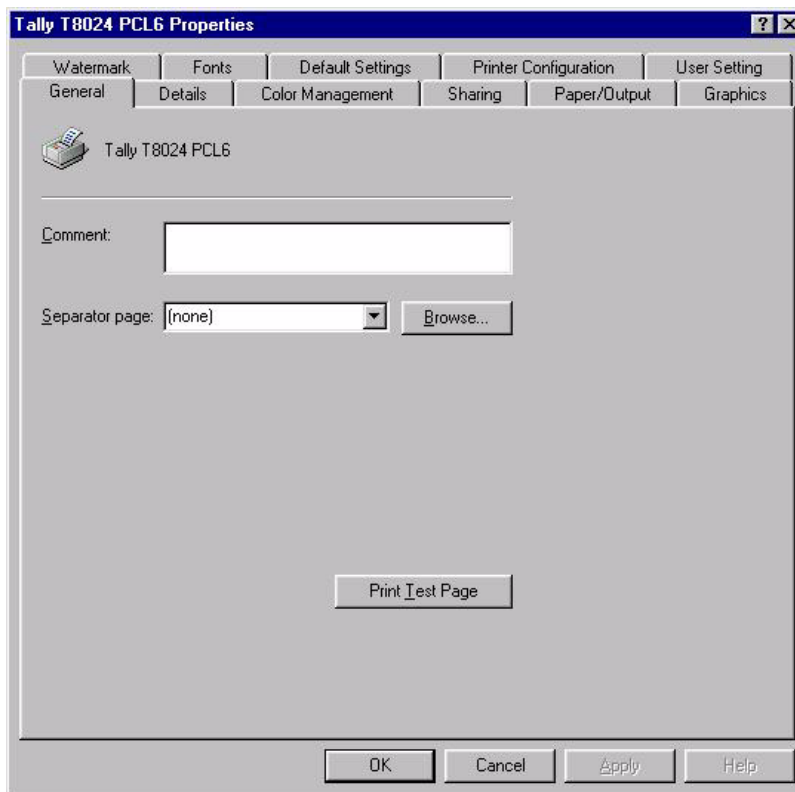
Once the correct connection has been selected in the printer driver you should ask for a windows test page to be printed. This will confirm that the driver and printer are working.

••• Testing Printing

To check the connection, print the test page.
The procedure is as follows:

Procedure

- 1** Click **Start**, select **Settings** and then **Printers**.
The Printers window is displayed.
- 2** The T8024 printer icon has been added by installation of the printer driver. Select this added printer icon and click **Properties** from the File menu.
The Properties dialog box is displayed.
- 3** Click **Print Test Page** in the General tab.



A dialog box is displayed to confirm whether or not the test page has been printed correctly.

- 4** Check the print results, and if the test page is printed correctly, click **Yes**.
- 5** Click **OK** on the Properties dialog box.

2.3

Configuring the TCP/IP Direct Print Utility

This section explains the settings required for using the TCP/IP Direct Print Utility to print from Windows 95/Windows 98/Windows Me.

2.3.1 Installing the TCP/IP Direct Print Utility

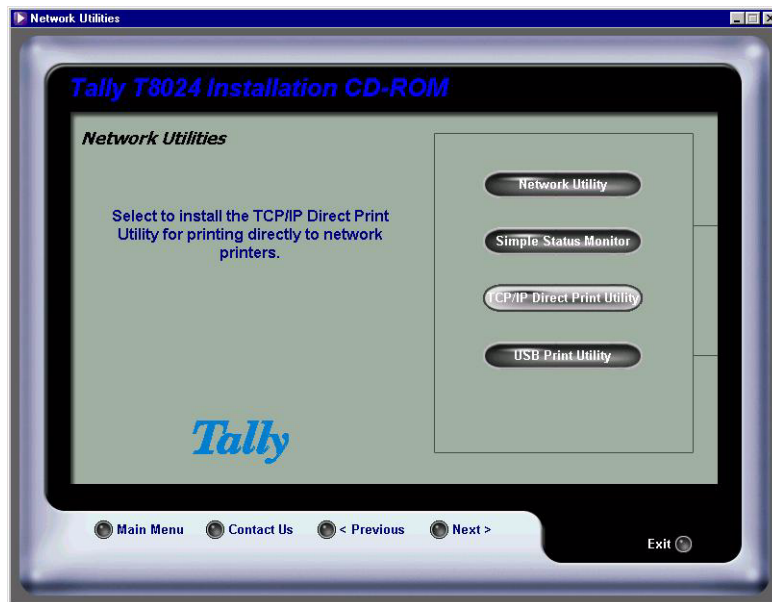
The procedure for installing the TCP/IP Direct Print Utility onto the computer is described below. We will use Windows 98 in this procedure as an example. If you are continuing with the procedure from the previous section, carry out the procedure from Step 4 of specify option installed.

- 1 Switch on the computer and start Windows 98.
- 2 Insert the Tally Auto run CD into the CD-ROM drive.
The Tally StartUp Tool dialog box appears automatically.

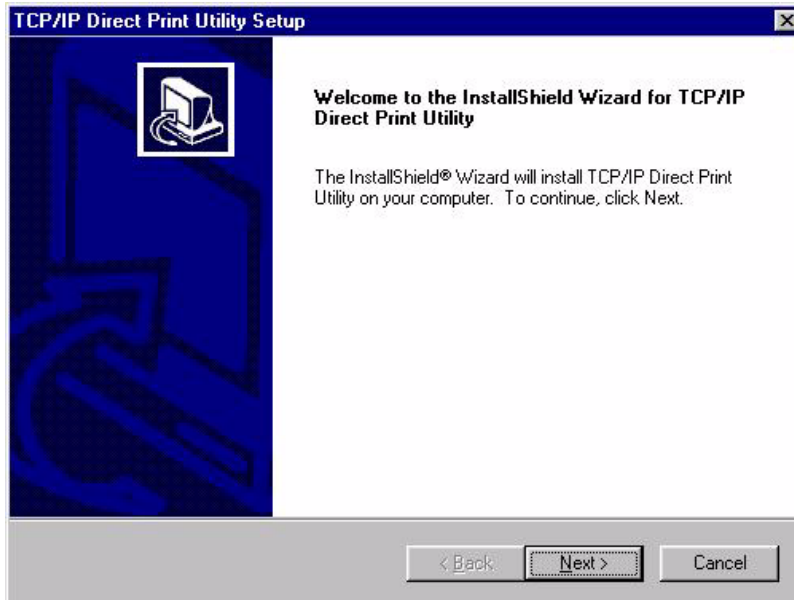
Note

If the Tally StartUp Tool dialog box does not appear automatically, go to My Computer and double click the CD-ROM drive icon.

- 3 After accepting the license agreement, select **Network utilities**, and then select **TCP/IP Direct printing utility**.



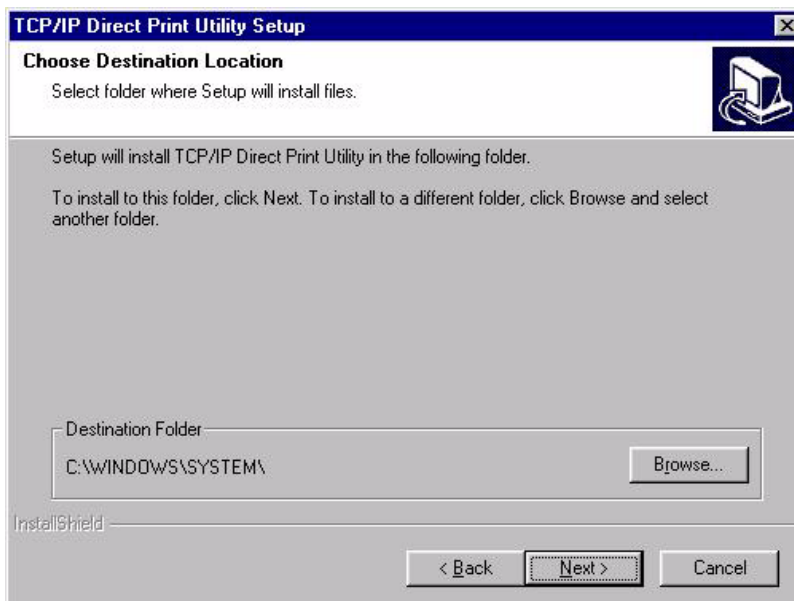
4 Select **Next**.



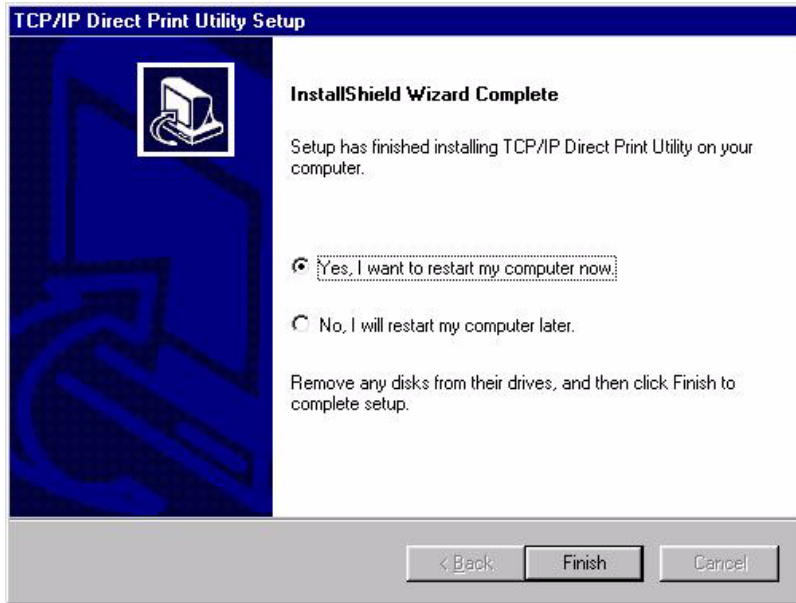
LOOK

If you are prompted to install TCP/IP when Installing the TCP/IP Direct Print Utility, stop the operation. Then after you have installed TCP/IP protocol onto your computer, restart the installation again.

5 Check the path under Destination Folder, and click **Next** if it is all right. The installation of the TCP/IP Direct Print Utility begins.

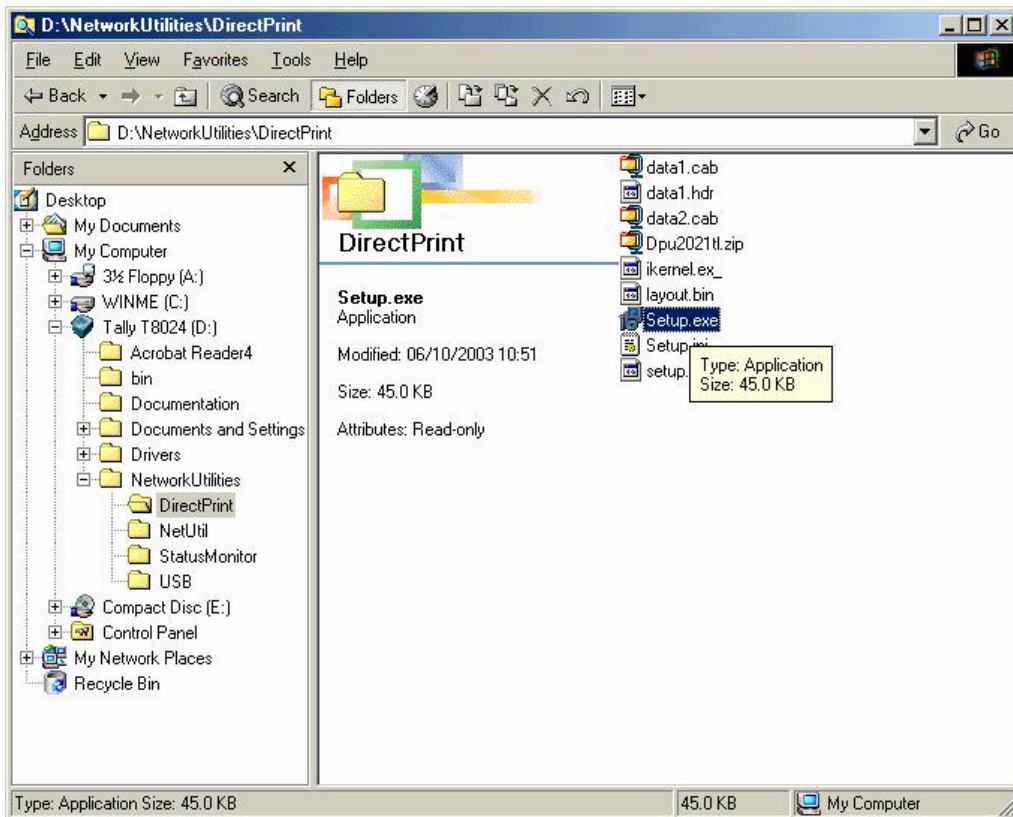


6 Click the **Finish** button to restart the computer.



Note

Note if the utility cannot be loaded using the Auto run cd. It can be loaded also by running setup from the cd in the directory shown below.

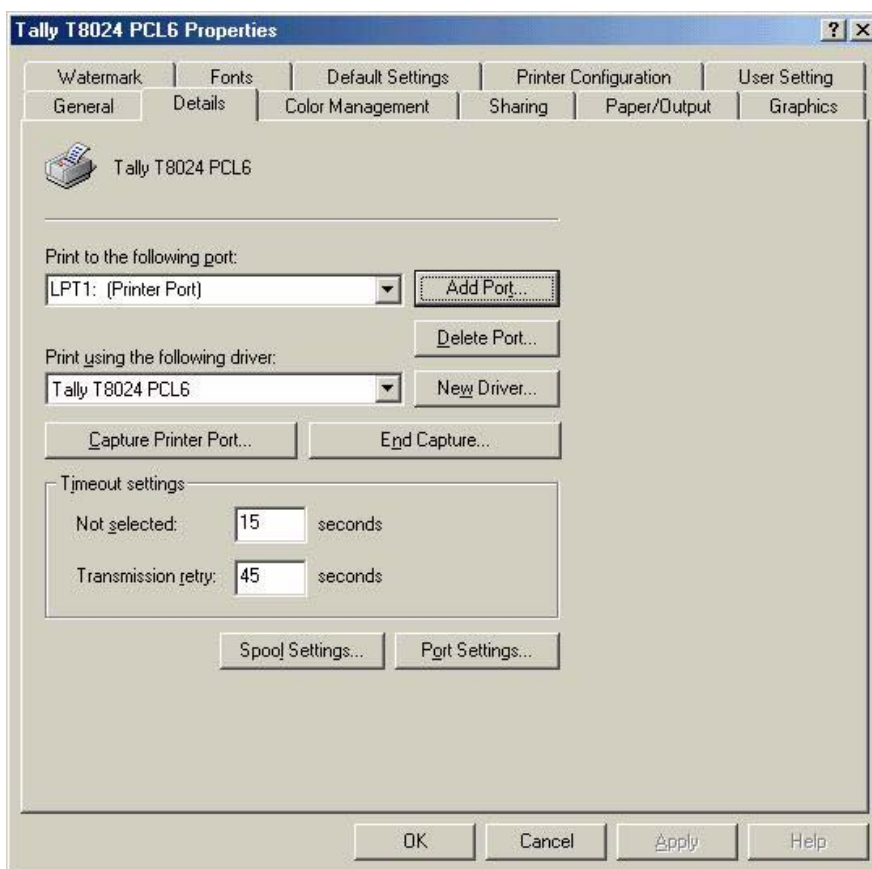


2.3.2 Setting the Port

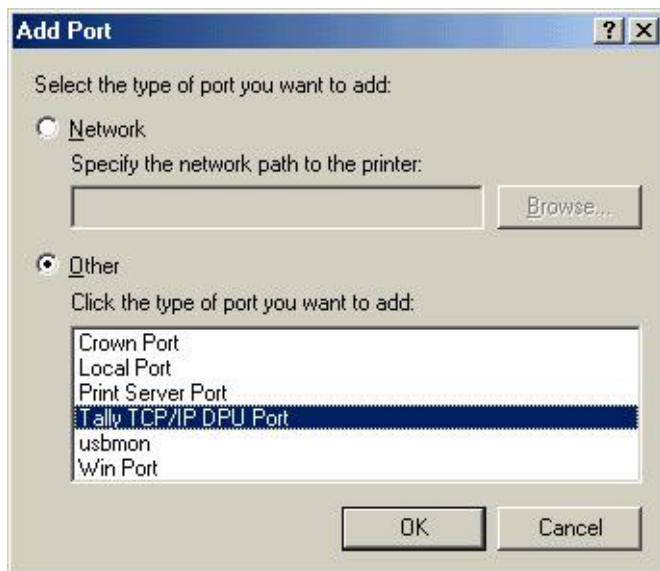
After you have created the printer icon in the previous section, configure the TCP/IP Direct Print Utility port for the printer. The procedure is as follows:

Procedure

- 1 After starting up your computer, run Windows 98. Click **Start**, select **Settings** and then **Printers**.
The Printers window is displayed.
- 2 The T8024 printer icon has been added by installation of the printer driver. Select this added printer icon and click **Properties** from the File menu.
The Properties dialog box is displayed.
- 3 Click **Add Port** in the Details tab.



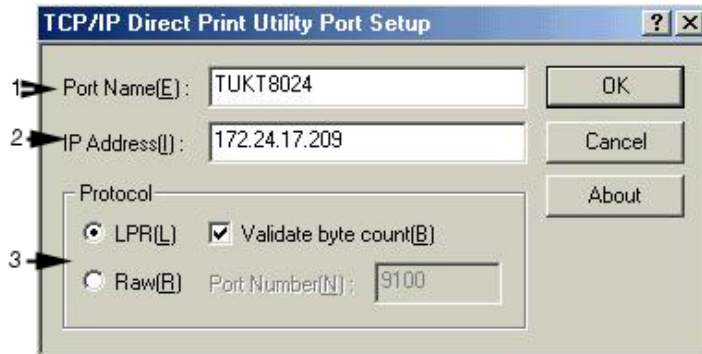
- 4 Select **Other**, and click **Tally TCP/IP DPU Port** from "Click the type of port you want to add".



- 5 Click **OK**.
The Tally TCP/IP Direct Print Utility Port Setup dialog box is displayed.

6 Enter the appropriate value for each item, and click **OK**.

Example: For port name, "TUKT8024" and IP address, "172.24.17.209".

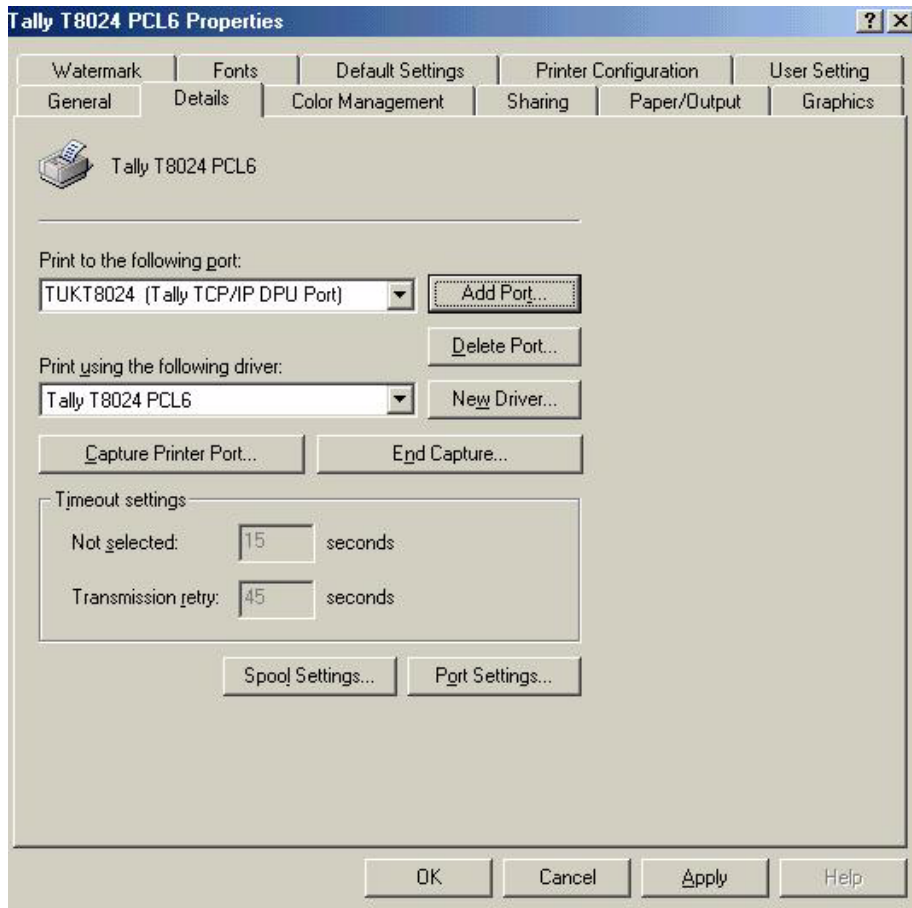


Item	Remarks
① Port Name	<p>Enter a name of your choice to identify the printer.</p> <p>LOOK</p> <p>When you are adding multiple TCP/IP Direct Print Utility ports, consider the following restrictions.</p> <p>There is no difference between using upper-case and lower-case characters. Examples of port names that cannot be used (current port name is "printer"):</p> <ul style="list-style-type: none"> • Adding characters at the end of the current port name. Example: "printer1", "printer-01" and so forth. • Deleting some characters from the current port name. Example: "prin", "print" and so forth.
② IP Address	Enter the IP address of the printer.
③ Protocol	<p>Select the protocol to be used for data transfer. Select either of the printing protocols (1) or (2) below. The default selection is (1) LPR.</p> <p>(1) "LPR": The lpr protocol is used for printing. Enable or disable the "Validate byte count" option by selecting or deselecting its check box. The default selection is enabled (check box selected).</p> <p>(2) "Raw": Port9100 protocol is used for printing. You can specify a port number at the destination in "Port Number". This setting is effective only when Raw protocol is selected. The default setting is "9100". If the number is deleted, "9100" appears. You can enter up to 5 digits. If you enter a number greater than 65536 and click OK, "9100" is registered. Ensure that the protocol selected and in the case of RAW port the number used has been enabled on the printer. See the network user's guide on the additional documentation screen of the T8204 auto run cd.</p>

Note

If you do not know the IP address of the printer, check with your network administrator, or print out the Printer Settings list. Refer to "8.4.1 Confirming Printer Configuration and Network Settings".

- 7** On the Details tab of the Properties dialog box, check that "(Tally TCP/IP DPU Port)" appears in "Print to the following port" together with the port name entered in Step 6.



- 8** To check the connection, print the test page.
After you have clicked **Apply** to confirm the settings, click **Print Test Page** on the General tab.
A dialog box is displayed to confirm whether or not the test page has been printed correctly.
- 9** Check the print results, and if the test page is printed correctly, click **Yes**.
- 10** Click **OK** on the Properties dialog box.

2.4

Installing the Printer Driver (Windows NT 4.0/Windows 2000/ Windows XP/Windows 2003)

The procedure for installing the printer driver onto Windows NT 4.0/Windows 2000/Windows XP is as follows. The Auto run cd will install the printer driver onto the lpt1 port . This is the best method to use under normal circumstances. If the printer is using SMB or Novell printing it may be necessary under some circumstances to not allow the cd to Auto Install. Please consult your network administrator for advice. Instead the printer driver should be added by selecting the add printer driver and pointing to the correct place on the CD. This should always be done when printing using IPP. This is due to the difficulty in selecting network ports on the above systems after installing the printer driver

LOOK

Refer to the Network User Guide for more details on the installation of the printer onto a network.

LOOK

- Before installing the printer driver on a Windows NT 4.0 system, it is necessary to set up TCP/IP Protocol and Microsoft TCP/IP Printing. Refer to the manuals on Windows NT 4.0 for details.
- You can select LPR Port or Standard TCP/IP Port as the output destination for the port on a Windows 2000 system. When you select LPR Port, before installing the printer driver, you are required to set up Print Services for Unix on Windows 2000. Refer to the manuals on Windows 2000 for details.

••• Installing the Printer Driver

Procedure

- 1** Power on the printer.
- 2** Power on your computer running Windows NT 4.0 or Windows 2000/XP/Windows 2003 and log on as either an administrator or power user.

Note

When the printer is connected to the computer, a dialog box indicating that new hardware has been detected may be displayed when you activate Windows 2000/XP. In this case, click Cancel to close the dialog box.

- 3** For Netware environments, log on to the target file server.
- 4** Insert the T8024 Auto Installer CD into your CD-ROM drive.

Note

If the CD-ROM does not start automatically, go to My Computer and double click the CD-ROM drive icon.

5 Click the **I Accept** button.



The Tally Setup Menu is displayed.

6 Click the **Install PCL Driver** or **Install PostScript Driver** button to start the driver installation.

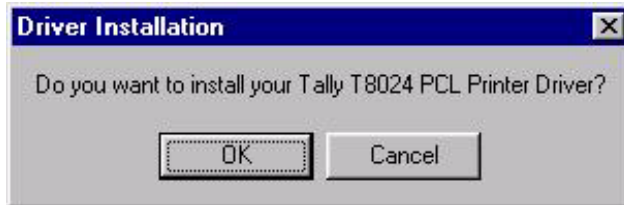
Note

When the PostScript installer prompts you to select a PPD, browse to your CD-ROM and look in the \Drivers\PS folder and select the appropriate language. In addition, the optional PostScript Kit must be installed in the printer in order to print using the PS driver.



7

Select **OK**.



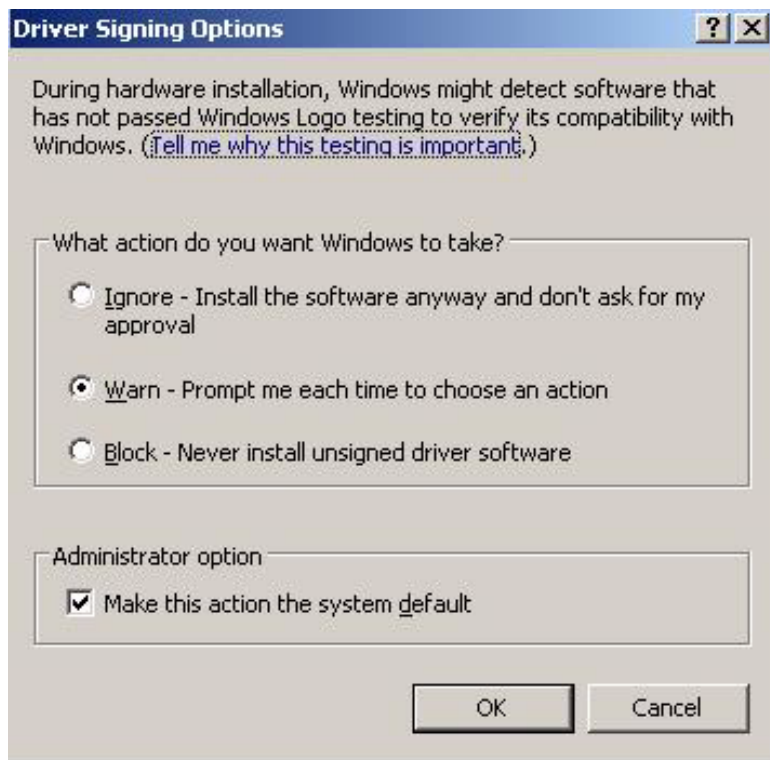
On early versions of the driver you may get the windows logo testing screen. Select **Continue Anyway**.



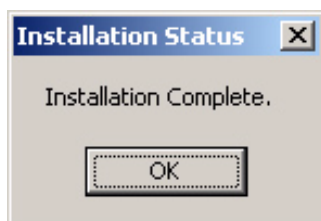
If the screen does not show the buttons to allow you to continue, as shown below.



Cancel the installation and change the driver signing to warn . To do this check the windows documentation. Go to control panel system hardware driver signing and select warn. Restart the installation.



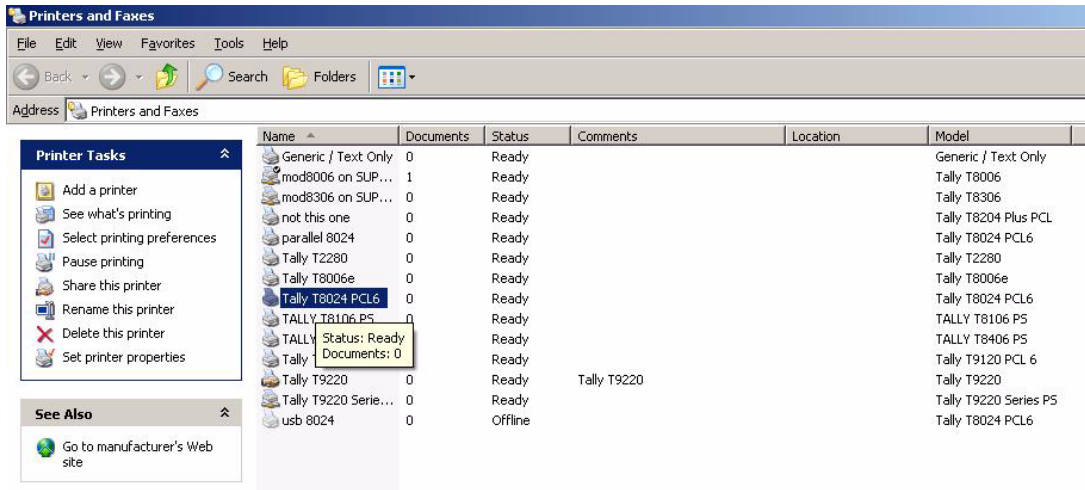
8 Click **OK** and exit the CD when the driver installation is complete.



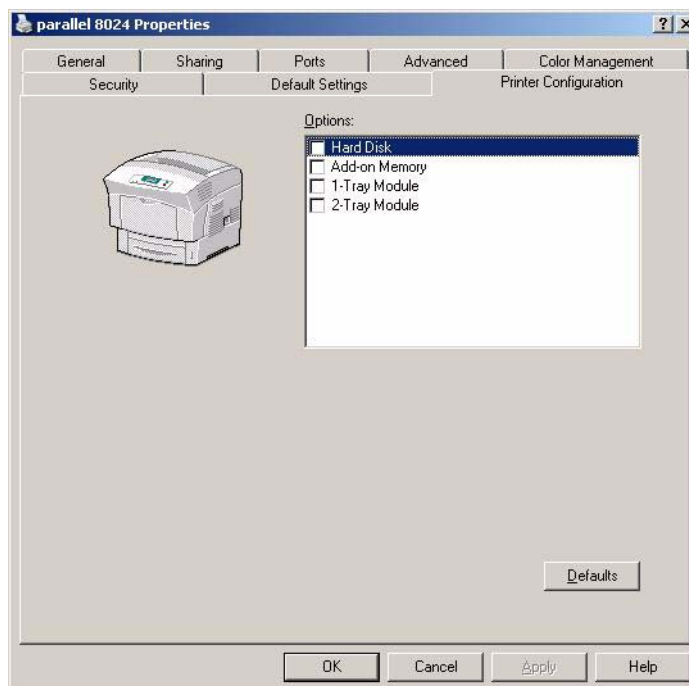
••• Specify options Installed

Procedure

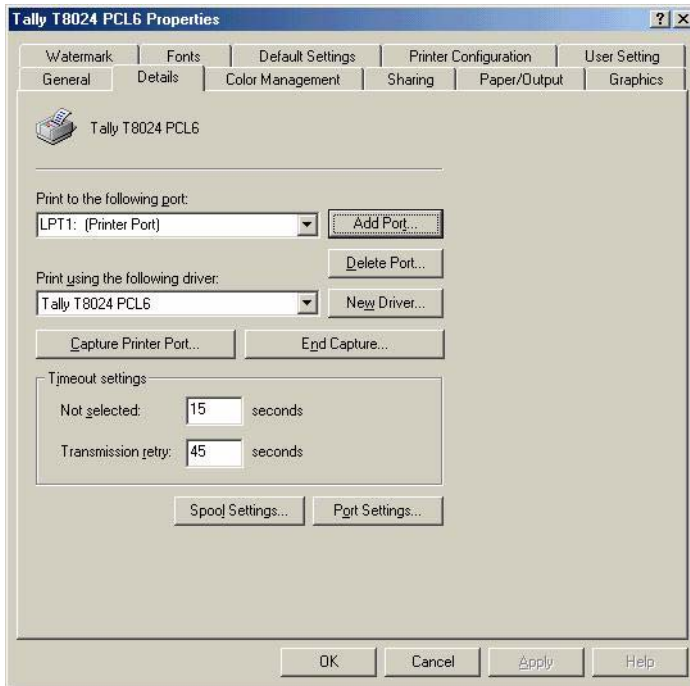
- 1 Select either **Start, Settings, Printers** or **Start, Printers and faxes**. Select the T8024, right mouse click and select **Properties**.



- 2 Select the printer configuration tab and select any installed options and press **Ok**.
- 3 If you require this printer to be the default printer, select it and then right click it and select the option set as default.

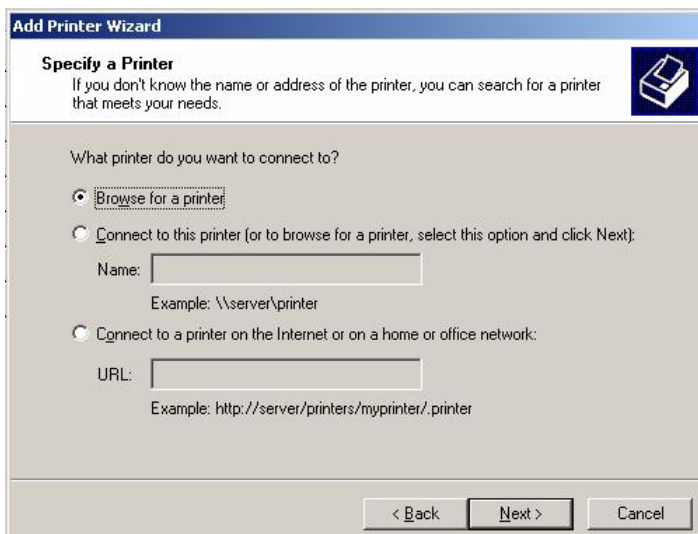


- 4 Select the ports tab. This confirms that the T8024 has been correctly installed onto the lpt1 port. If using the printer in either a SMB or Netware environment refer to the system administrator for advice. Having installed the printer driver it is possible to connect to it using SMB by selecting add port, local port and adding the port details if known.



For SMB environment

- ① Select **URL** if using IPP. Or browse or connect.



- ② From the network list, search and select the printer. The printer will be displayed as "host name-p" and will be under the host name icon. The factory defaults for the workgroup name and the host name is "Workgroup" and "TLnnnnnn" (nnnnnn: lower six digits of the Ethernet address of the printer) respectively.

Note

When you do not know the workgroup name and host name of the printer, either check with the network administrator, or print out the Printer Settings list to confirm. Refer to "8.4.1 Confirming Printer Configuration and Network Settings".

- ③ Click **OK**.
- ④ Check that "\\Host name\\Host name-P" is displayed correctly in "Network Path for the Printer" in Add Port dialog box and click **OK**.

For NetWare environment

- ① From the network list, search and select the print queue. The print queue is displayed under the NetWare File Server icon.

Note

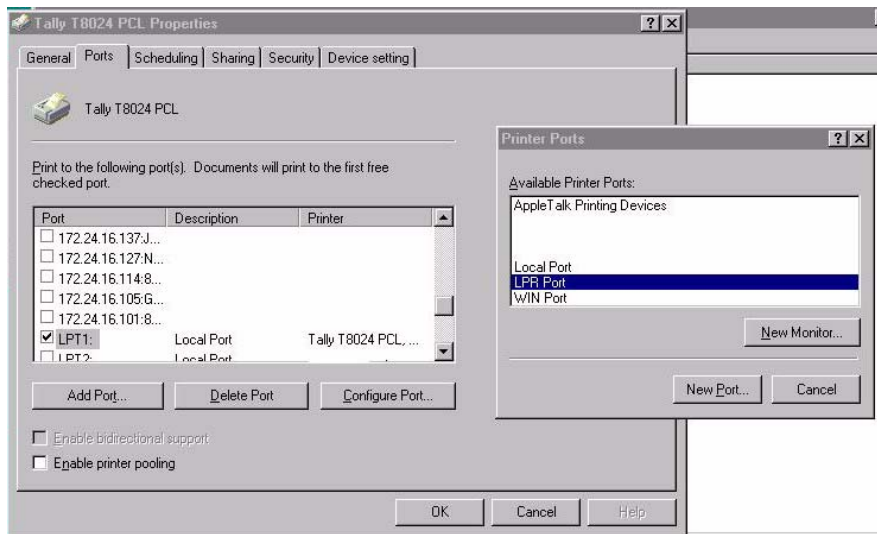
When you do not know the print queue name, check with the network administrator.

- ② Click **OK**.
- ③ Check that "\\NetWare file server name\\Print queue name-P" is displayed correctly in "Network Path for the Printer" in Add Port dialog box and click **OK**.

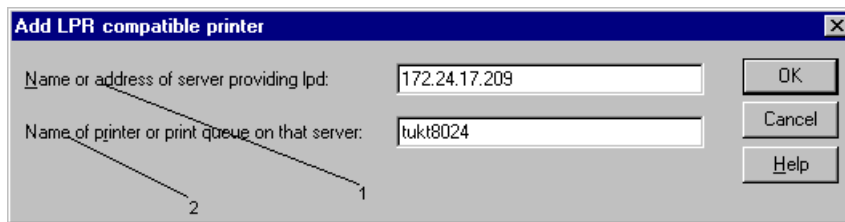
For connections using TCP/IP ports on windows NT4\2000\XP the auto run CD driver can be loaded and then port changed from lpt1 to a selection as shown below.

For TCP/IP environment (Windows NT 4.0)

- ① Select **Others** and click **LPR Port** from Available ports. If this option is not available, look at the windows NT help for Microsoft TCP/IP printing service for instructions on adding this service.



- ② Click **OK**.
The Add LPR compatible printer dialog box is displayed.
- ③ Enter the items in each text box.
Example: For Name or address of server providing lpd, "172.24.17.209", and the Name of printer or print queue on that server, "TUKT8024".



Item	Remarks
① Name or address of server providing lpd	Enter the IP address of the printer. You can enter the registered printer name when it is possible to use name solving services like WINS. LOOK When the IP address has numbers with less than three digits, do not enter "0" before these numbers, e.g. "XXX.XXX.00X.0XX". It will not work properly.
② Name of printer or print queue on that server	Enter any name for the T8024.

Note

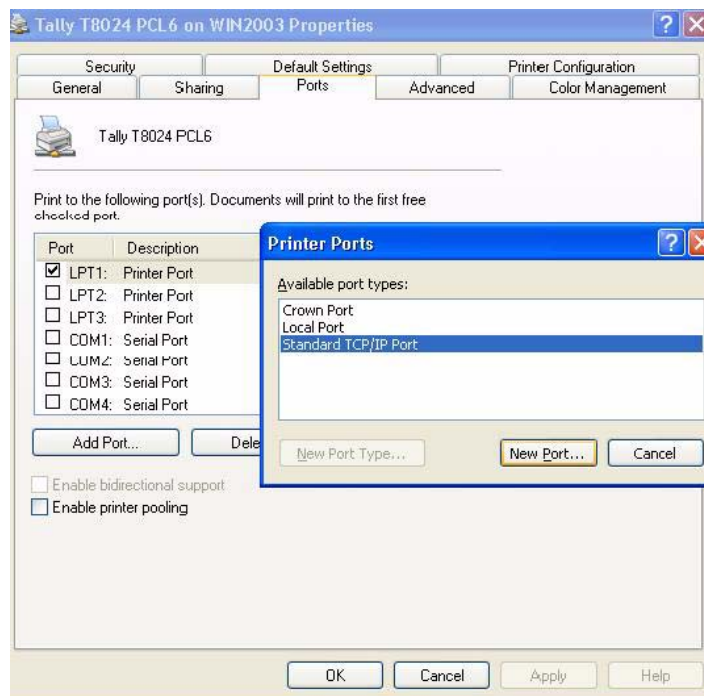
When you do not know the IP address of the printer, either check with the network administrator, or print out the Printer Settings list to confirm. Refer to "8.4.1 Confirming Printer Configuration and Network Settings".

For TCP/IP environment (Windows 2000/Windows XP/Windows 2003)
The following example is for Windows 2000.

Note

This section explains the procedure for selecting Standard TCP/IP Port.

- ① Select **Addport** and click **Standard TCP/IP Port** from Available ports.

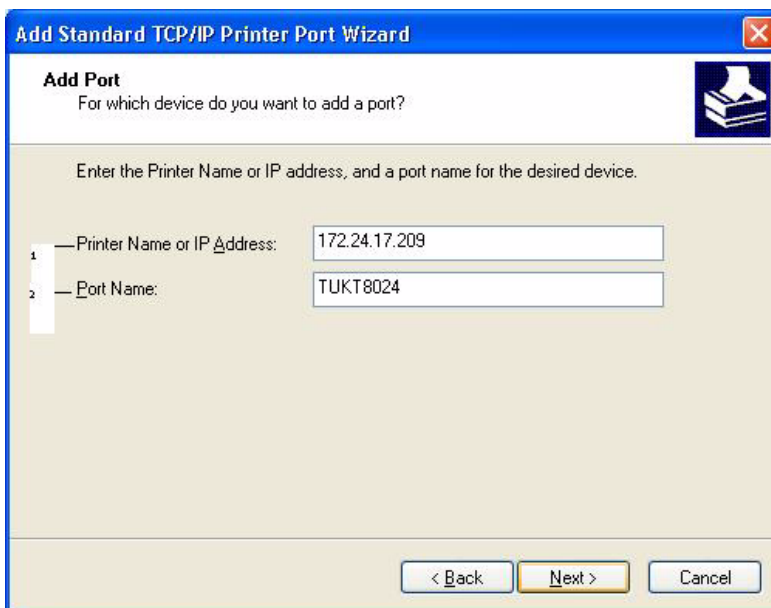


- ② Click **OK**.

- ③ The following screen is displayed. Click **Next**.



- ④ Enter the items at each text box.
Example: For IP address, "172.24.17.209", and the port name "TUKT8024".



Item	Remarks
① Printer Name or IP Address	Enter the IP address of the printer. You can enter the registered printer name when it is possible to use name resolving services like WINS. LOOK When the IP address has numbers with less than three digits, do not enter "0" before these numbers, e.g. "XXX.XXX.00X.0XX". It will not work properly.
② Port Name	Enter name or IP address of the printer and the name of port is automatically set. Enter the port name only when you want to make changes.

Note

When you do not know the IP address of the printer, either check with the network administrator, or print out the Printer Settings list to confirm. Refer to "8.4.1 Confirming Printer Configuration and Network Settings".

- ⑤ Click **Next**.
- ⑥ Click next to the additional port information required box.



- ⑦ Check the contents on the screen and click **Finish**.

5 If connected with a USB cable, move on to "2.5 Setting Up the USB Port".

●●● Testing Printing

To check the connection, print the test page.
The procedure is as follows:

Procedure

- 1** Click **Start**, select **Settings** and then **Printers**.
The Printers window is displayed.
- 2** The T8024 printer icon has been added by installation of the printer driver. Select this added printer icon and click **Properties** from the File menu.
The Properties dialog box is displayed.
- 3** Click **Print Test Page** on the General tab.
A dialog box is displayed to confirm whether or not the test page has been printed correctly.
- 4** Check the print results, and if the test page is printed correctly, click **Yes**.
- 5** Click **OK** on the Properties dialog box.

2.5 Setting Up the USB Port

When connecting the printer to your computer with a USB cable, do the following procedures after installing the printer driver.

••• For Windows 2000 or Windows XP

The following example is for Windows XP.

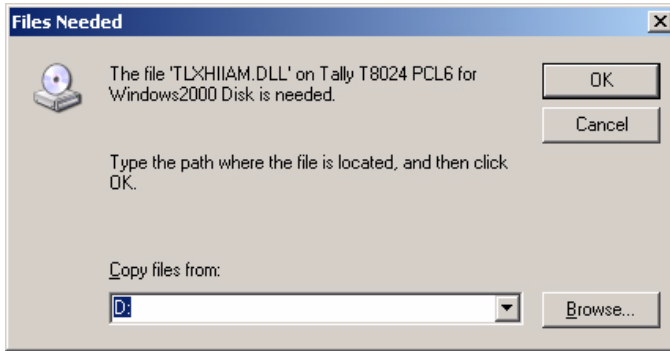
Procedure

- 1 Check that the computer is on, and then switch off the printer.
- 2 Connect the USB cable.
- 3 Switch on the printer.

The computer automatically detects the new hardware. The computer will display the found new hardware screen.

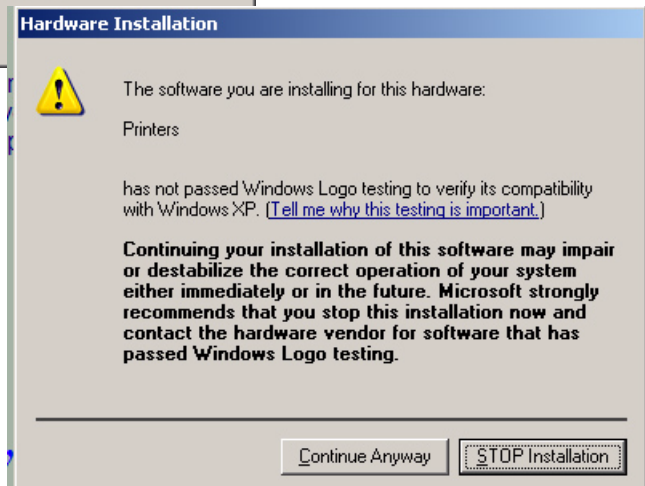
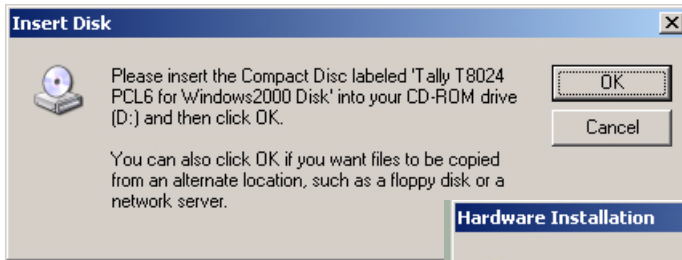


- 4** If the files needed screen comes up browse to the following directories on the cd. For windows 2000 drivers\pcl\ec\win2000. For windows XP drivers\pcl\ec\winXP. Change ec to us if letter size paper is used more frequently than A4.



Note

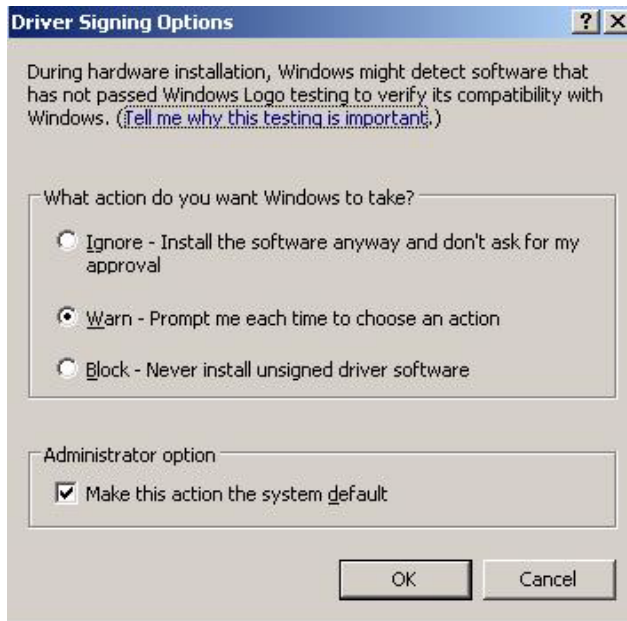
Earley versions of the drivers will come up with the windows logo testing screen. Press the **Continue anyway** key.



If the screen does not show the buttons to allow you to continue, as shown below.



Then cancel the installation and change the driver signing to warn. To do this check the windows documentation. Go to control panel system hardware driver signing and select warn. Restart the installation.



5 Click the **Finish** button.



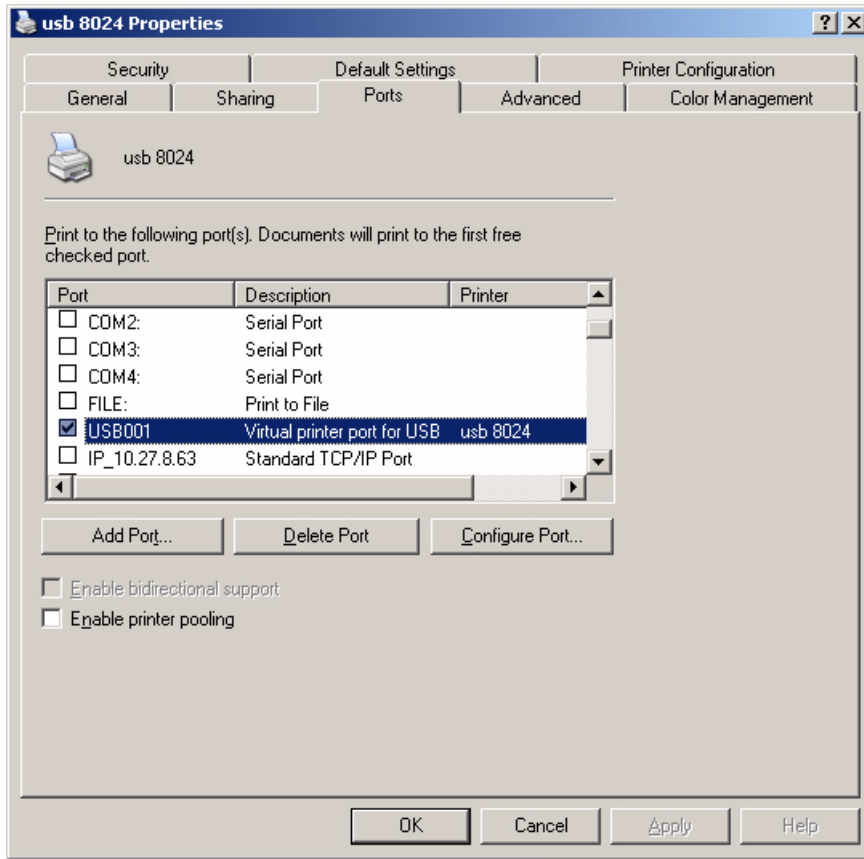
6 Check the connection.
Click **Start**, select **Settings** and then **Printers**.

The Printers window is displayed.

7 The T8024 printer icon has been added by installation of the printer driver. Select this added printer icon and click **Properties** from the File menu.

The Properties dialog box is displayed.

- 8** The USB port now appears in "Print to the following port(s)" on the Ports tab. Click the **OK** button



- 9** Click **Print Test Page** on the General tab.
A dialog box to confirm whether or not the test page is printed correctly will be displayed.
- 10** Check the print results, and if the test page is printed correctly, click **OK**.
- 11** Click **OK** on the Properties dialog box.

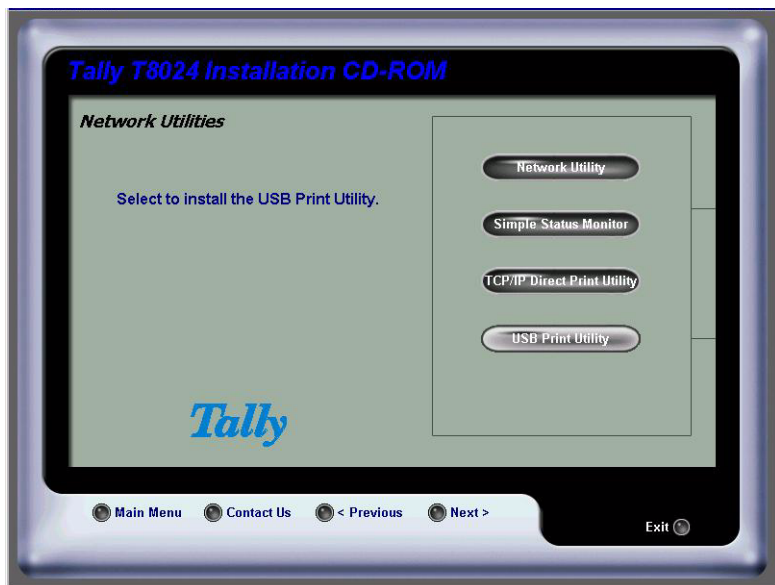
●●● For Windows 98 or Windows Me

The following example is for Windows 98.

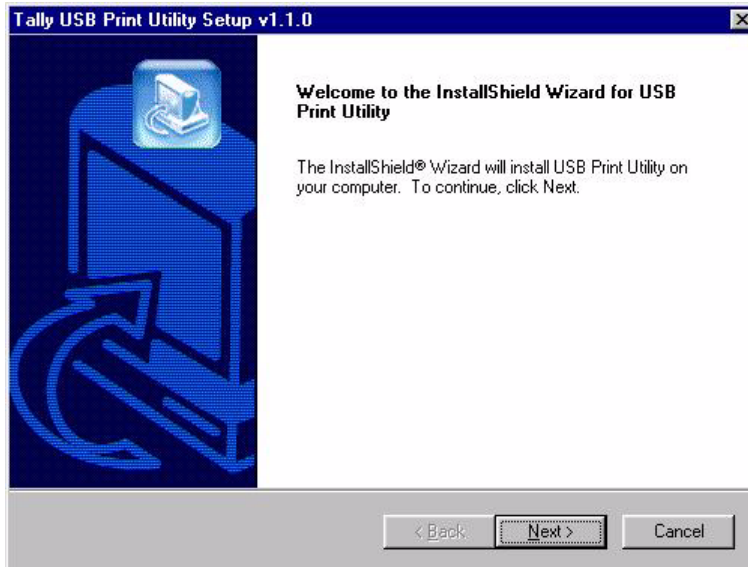
■ Install the USB Print Utility

Procedure

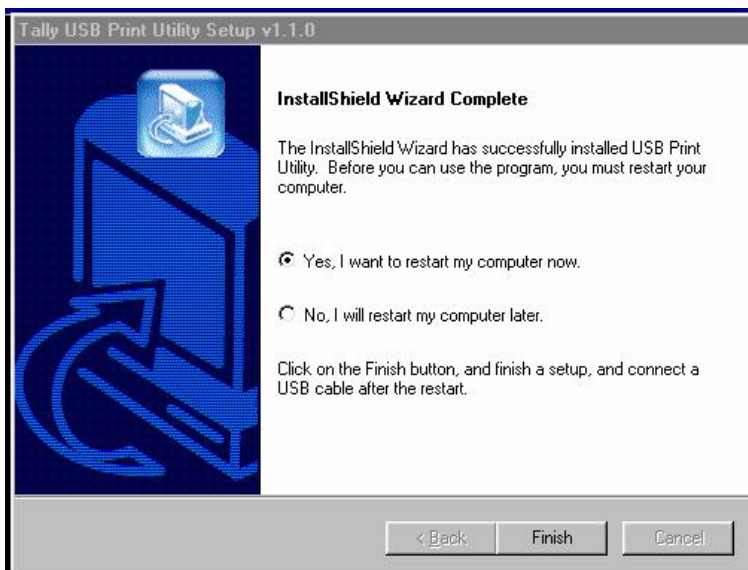
- 1 If the USB cable is connected, temporarily disconnect and power the printer off.
- 2 Insert the Tally Auto run CD into the CD-ROM drive.
The Tally StartUp Tool dialog box appears automatically.
- 3 Read the license and select **I accept**. Select the **Network Utility** and select the USB install and follow the wizard.



4 Select **Next**.



5 The USB utility will prompt to restart. Click on the **Finish** box.



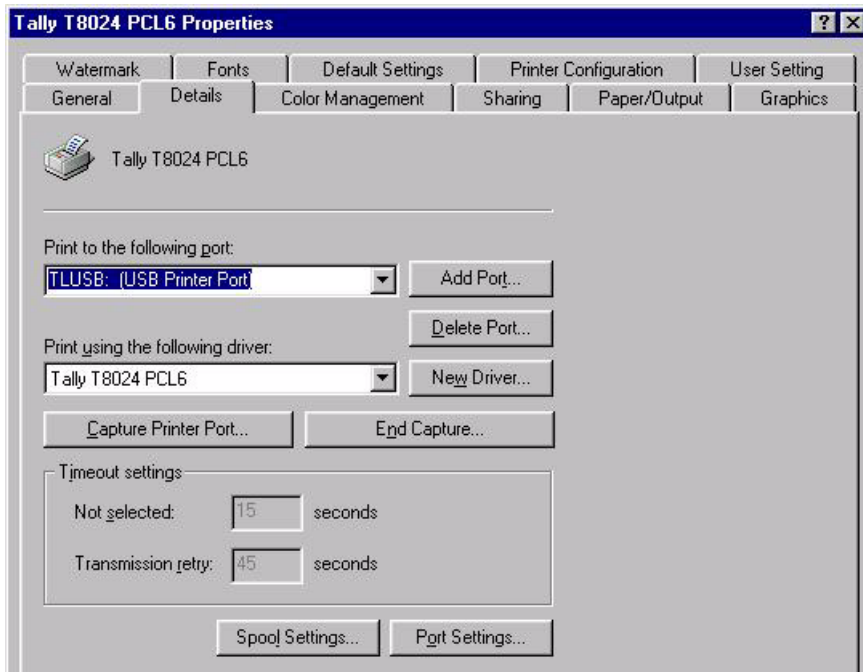
6 After starting up your computer, run Windows 98. Click **Start**, select **Settings** and then **Printers**.

The Printers window is displayed.

7 The T8024 printer icon has been added by installation of the printer driver. Select this added printer icon and click **Properties** from the File menu.

The Properties dialog box is displayed.

- 8 Confirm that "TLUSB: (USB Printer Port)" now appears in "Print to the following port" on the Details tab.

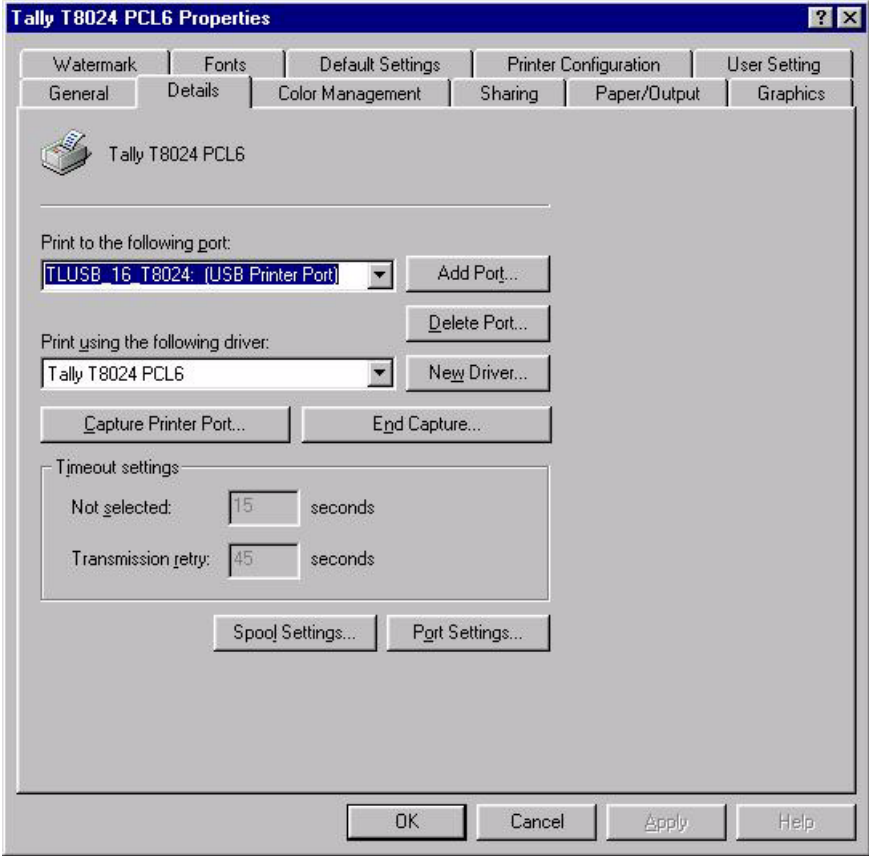


- 9 To close the dialog box, click **OK**.

■ Setting the USB port

Procedure

- 1** Connect the printer and pc together with a USB cable and switch on the printer.
The computer automatically detects the new hardware and installs necessary software.
- 2** Click **Start**, select **Settings** and then **Printers**.
The Printers window is displayed.
- 3** Select the T8024 printer icon, then click **Properties** on the File menu.
The Properties dialog box is displayed.
- 4** "TLUSB_X_T8024: (USB Printer Port)" now appears in "Print to the following port" on the Details tab. Select this port.
In TLUSB_X ..., a value from 0 to FF appears in the position indicated by [x]. The value varies according to the environment.



- 5** To check the connection, print the test page.
After you have clicked **OK** to confirm the settings, click **Print Test Page** on the General tab.
A dialog box is displayed to confirm whether or not the test page has been printed correctly.
- 6** Check the print results, and if the test page is printed correctly, click **Yes**.
- 7** Click **OK** on the Properties dialog box.

Basic Printer Operation

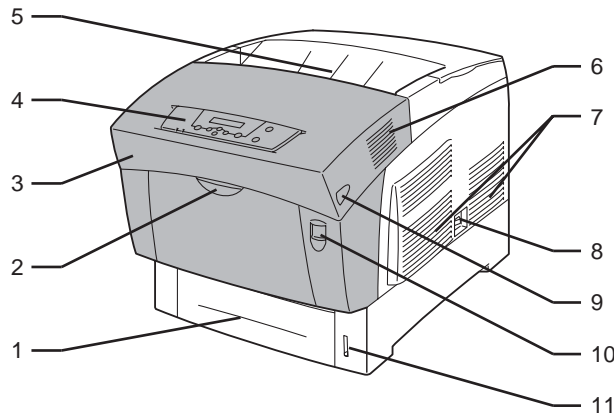
Printer Part Names and Functions.....	62
3.1 Switching On/Off the Power.....	66
3.2 Printing From a Computer	68
3.3 Using Online Help.....	72
3.4 Canceling Printing.....	76
3.5 Changing the Configuration for Options.....	78
3.6 Printing on Envelopes, Transparencies, and Custom-size (Long) Paper.....	80
3.7 Two-sided Printing.....	88

Printer Part Names and Functions

The names and functions of the various parts of the printer are as follows:



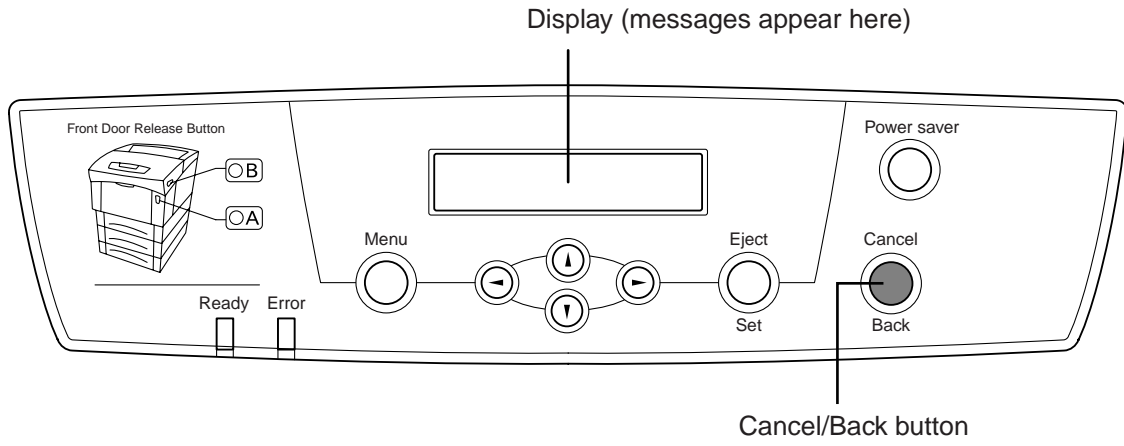
Front View



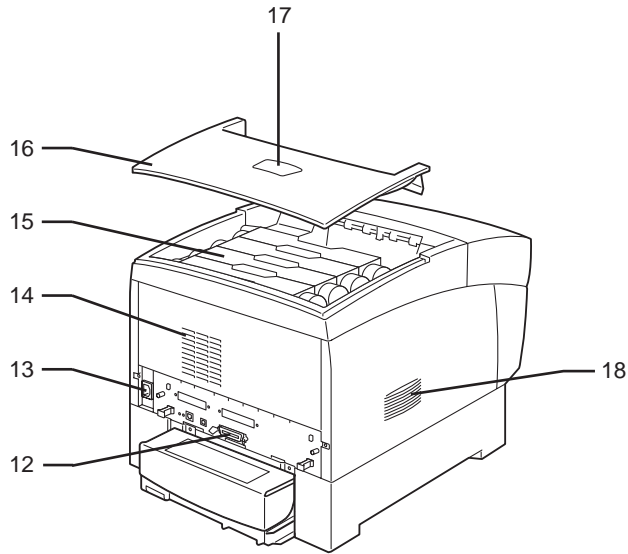
No.	Name	Description
1	Paper Tray	Load paper here.
2	Multi purpose Tray	Use this tray when feeding manually to load items such as postcards and envelopes.
3	Front Cover	Open to clear paper jams, replace the drum cartridge, transfer roller, and fuser unit.
4	Operation Panel	Use the buttons and display to control the printer.
5	Face Down Tray	Printed documents are output here, printed side down.
6	Exhaust Grilles	Allows internal heat to dissipate. Make sure the grilles are never obstructed.
7	Air Intake Grill	Allows air to enter the printer to prevent it from overheating. Make sure the grill is never obstructed.
8	Power Switch	The printer's power switch. Press [I] to turn the printer on, and [O] to turn it off.
9	Button B	Use button B to open the upper part of the front cover.
10	Button A	Use button A to open the whole front cover.
11	Paper Meter	Use the meter as a guide to refill the paper tray.



Operation Panel

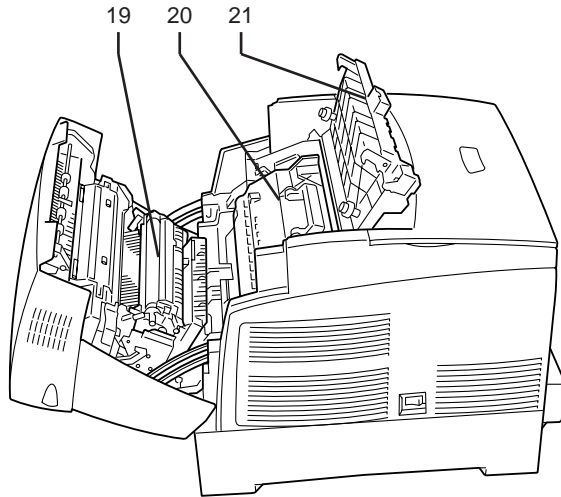


●●● Rear View

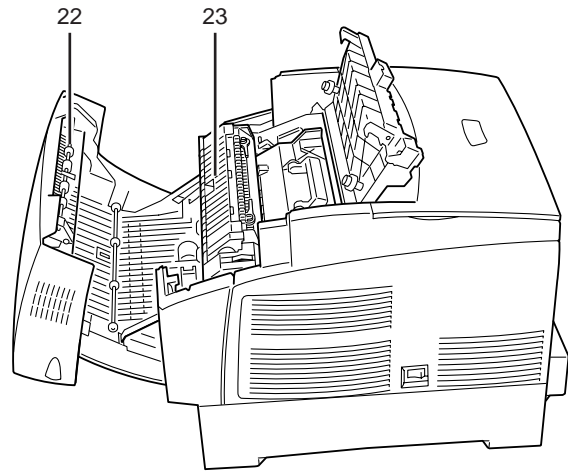


No.	Name	Description
12	Interface Connector	Connect the printer to your computer or network here.
13	Power Cord Connector	Connect the power cord here.
14	Exhaust Grille	Allows internal heat to dissipate. Make sure the grille is never obstructed.
15	Toner Cartridges	The black, yellow, magenta, and cyan toner cartridges are inserted here.
16	Top Cover (face down tray)	Acts as the top cover and the face down tray of the printer. Remove it to change the toner cartridges. Printed documents are output here, printed side down. Do not operate the printer without the Top Cover.
17	Paper Stopper	Use this stopper in raised state if the output sheet falls.
18	Air Intake Grill	Allows air to enter the printer to prevent it from overheating. Make sure the grill is never obstructed.

Internal View



<Cover open with button A>



< Cover open with button B >

No.	Name	Description
19	Transfer Roller	Transfers the image created on the drum surface to the paper, and collects used toner.
20	Drum Cartridge	Consists of the light-sensitive drum, the developer and the transfer roller. Images are initially created as an electrical charge on the surface of this drum.
21	Paper Outlet Cover	Open to replace the drum cartridge and fuser unit.
22	Duplexer	With duplex printing, it turns the paper over after the front surface is printed.
23	Fuser Unit	Fuses the toner to the paper with heat. The fuser unit gets very hot during printing. Do not touch it to avoid burns.

3.1 Switching On/Off the Power

3.1.1 Switching On the Power

Follow the procedure below.

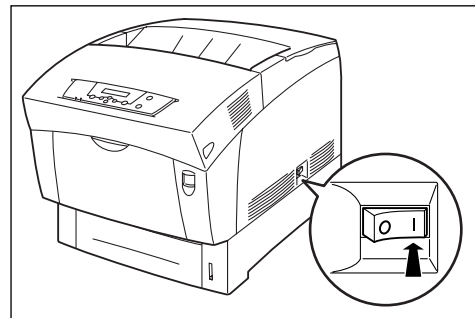
Procedure

- 1 On the printer's right side, press the side of the power switch marked "I" to switch on the printer.

The printer starts.

Note

The printer motors warm up for one or two minutes when you switch on the printer.



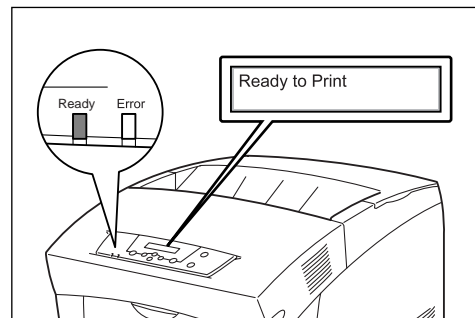
- 2 "Testing..." appears on the control panel. When the display changes from "Please Wait..." to "Ready to Print", check that the Ready indicator is lit.

Note

When "Please Wait..." is displayed, the printer is preparing to print. Printing is not possible while this message is displayed.

LOOK

If an error message appears on the display, refer to "6.7 When an Error Message Appears on the Control Panel" and rectify the error as instructed.



3.1.2 Switching Off the Power

Follow the procedure below.

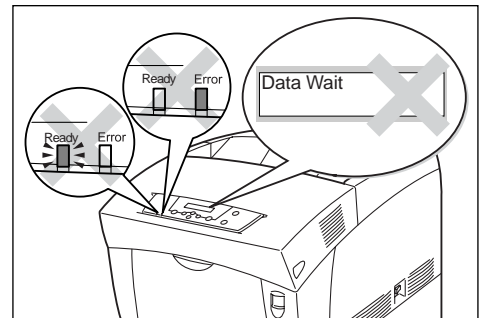
Procedure

- 1 Confirm that "Ready to Print" is displayed on the control panel.

LOOK

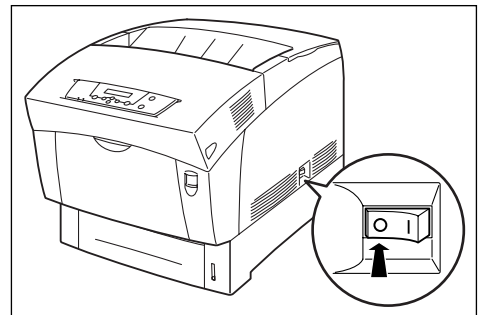
Do not switch off the printer in the following situations:

- When "Data Wait" is displayed on the control panel.
- When the Ready indicator is blinking.
- When the Error indicator is lit.



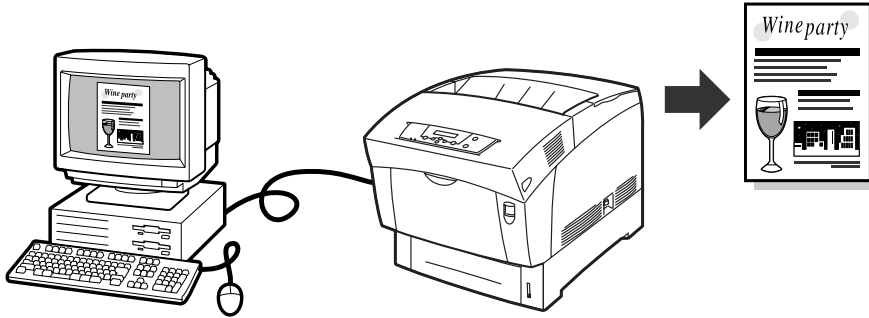
- 2 On the printer's right side, press the side of the power switch marked "○" to switch off the printer.

The printer is now off.



3.2 Printing From a Computer

This section describes the procedures for printing from computers using the PCL6 printer driver.



LOOK

When you install new printer options, you must reconfigure the printer driver to use the options. To confirm or make settings, refer to "3.5 Changing the Configuration for Options".

••• Printing from a Program

You can output jobs to the printer from most Windows programs with their Print command.

The following is a description of printing from Microsoft® Word 97 in Windows® 98.

Note

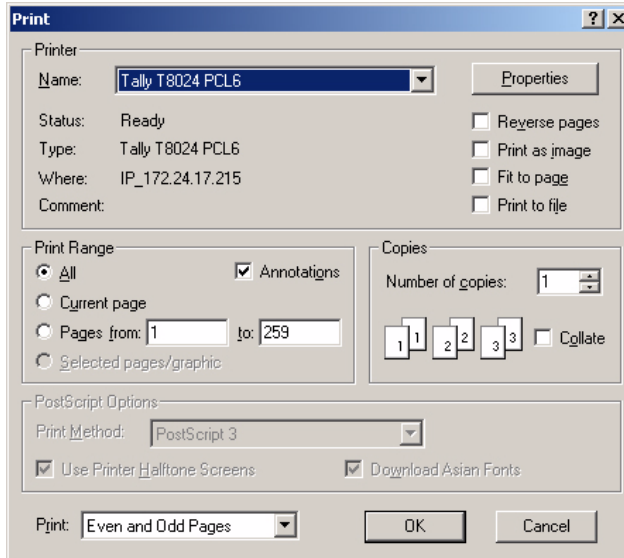
How to access dialog boxes and their contents varies depending on the operating system and programs you are using. For details, refer to the literature provided with the program you are using.

Procedure

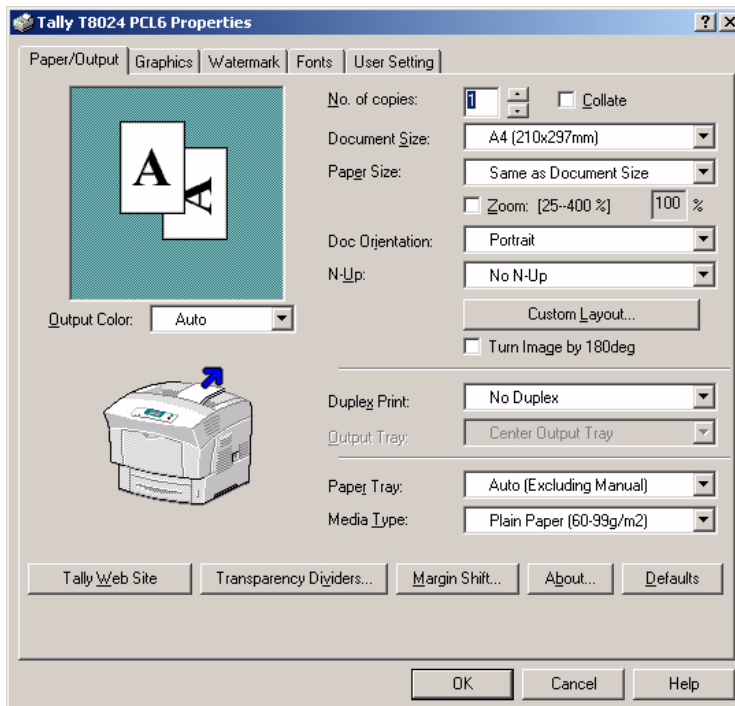
- 1 On the File menu, click **Print**.

The Print dialog box appears.

- 2** Select this printer in the Name box and click **Properties**.



- 3** On the various tabs, make settings for each item as required.



See

- For details about the various tabs, refer to Help. For details about how to use Help, refer to "3.3 Using Online Help".
- Use the Graphics tab to adjust the image and colors to suit your needs.

- 4** When you finish making settings, click **OK** in the Properties dialog box. The Properties dialog box closes.

5 In the Print dialog box, select the desired interval in Page range and click **OK**.

The data is sent to the printer.

LOOK

Be careful when removing printed material from the face down tray, as the top cover detaches easily.

See

To cancel printing, refer to "3.4 Canceling Printing".

••• Changing Default Printing Functions

Default printing functions are preset functions in the printer driver properties dialog box accessed from the Print dialog box. Setting default printing functions in advance saves you time, because it reduces the number of settings you need to make every time you print.

Follow the procedure below to change the default printing functions. The following example is for Windows 98.

Note

How to access dialog boxes and their contents varies depending on the operating system and programs you are using. For details, refer to the notes included with this procedure and the literature provided with your operating system.

Procedure

1 Click **Start**, select **Settings** and then **Printers**.

The Printers window is displayed.

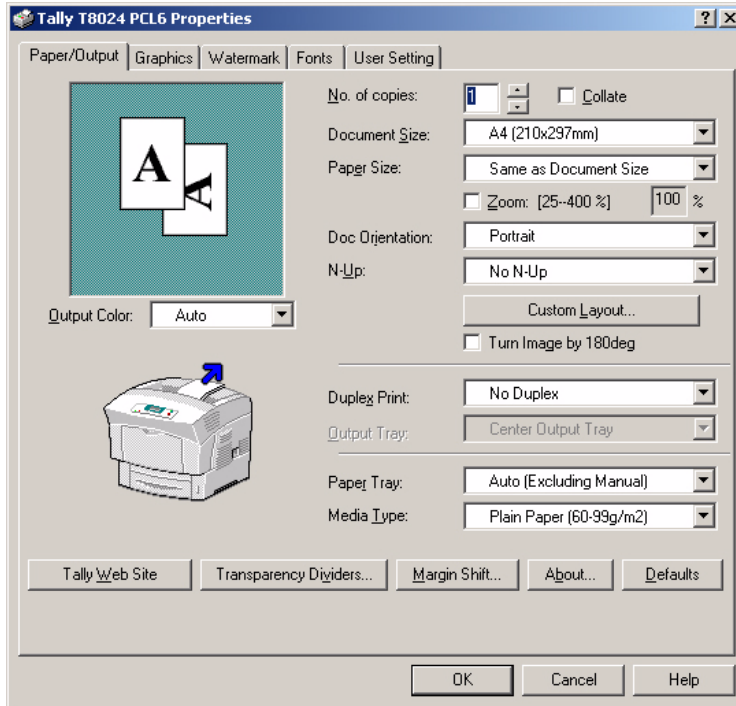
2 Select the appropriate printer and click **Properties** from the File menu.

The Properties dialog box is displayed.

Note

- In Windows 95 and Windows Me, you can open the Properties dialog box the same way as in Windows 98.
- In Windows NT 4.0, click **Document Defaults** on the File menu and make the settings in the dialog box that appears.
- In Windows 2000 and Windows XP, click **Printing Preferences** on the File menu and make the settings in the dialog box that appears.

- 3** On the various tabs, make settings for each item as required.



See

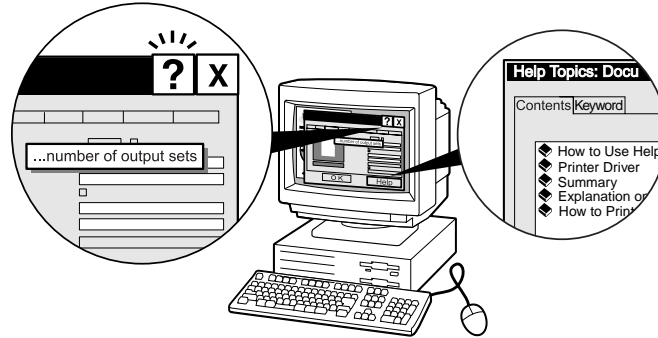
For details about the various tabs, refer to Help. For details about how to use Help, refer to "3.3 Using Online Help".

- 4** When you finish making settings, click **OK** in the Properties dialog box. The default printer functions in the printer driver are now changed.

3.3

Using Online Help

Help for the printer is provided with the PCL6 printer driver. Refer to Help when you need to know about printer driver items and settings, or need to check different printing methods when problems occur.



Help Contains the following:

The Help topics are as follows.



How to Use Help Files

- How to Use Help
- Help Notation
- How to Print



Printer Driver

- How to Get the Latest Version of the Printer Driver
- Trademarks and Abbreviations
- Supplementary Information About the Printer Driver
- How to Confirm the Printer Driver Version



Summary

- T8024 Characteristics
- Overview of Printer Driver

Explanation on Each Tab

Paper/Output Tab

Graphics Tab

Watermarks Tab

Fonts Tab

Configuration Tab

Options Tab

User Settings Tab

How to Print Job

Printing on Special Media

Printing on Envelopes

Printing on Glossy Paper

Printing on Transparencies

Inserting Paper Between Transparencies (Transparency Separators)

Duplex Print

Printing on Side 2 (Back) of Special Media

Printing on Side 2 (Back) of Plain Paper

Adjusting Graphics

Specifying the ICC Profile

Setting Color Temperature

Adjusting Color Balance When Printing Color Documents

Adjusting Brightness and Contrast When Printing B/W Documents

Saving Frequently Used Printer Driver Settings

Saving Printer Driver Settings

Using the Retrieved Printer Driver Settings to Print a Job

Printing a Specific Text Repeatedly(Watermark)

Printing a Watermark

Collating/Printing Multiple Sets

Printing Multiple Sets of a Document

Collate

Using This Feature

Using Image Repeat to Print a Job

Printing Multiple Pages of Documents on One Sheet of Paper (Multi-Up Option)

Using Poster to Print a Job

Using Booklet Creation to Print a Job

Printing on a Output Size Different From the Paper Size

Printing on Non-standard Output Size

Shortening Print Data Transmission Time

Solution to Unacceptable Settings Dialog Box

Placing Banner Sheets Between Jobs

 **Consumables**

Replacing the Toner Cartridges, Drum Cartridge and transfer roller

 **How to Solve Printing Problems**

Unable to Print
Poor Print Quality
Paper Jams
Network Related Problems
When an Error Message is Displayed
When a Problem Could Not be Solved

 **Nomenclature**

Multi-Up
TrueType Fonts
Color Balance
Resolution
Output Color
Black/White
Restore Defaults
Banner Sheet
Printer Fonts
Non-standard Size (Custom Sizes 1-5)
Color Temperature
ICC Profile

••• To refer to Help

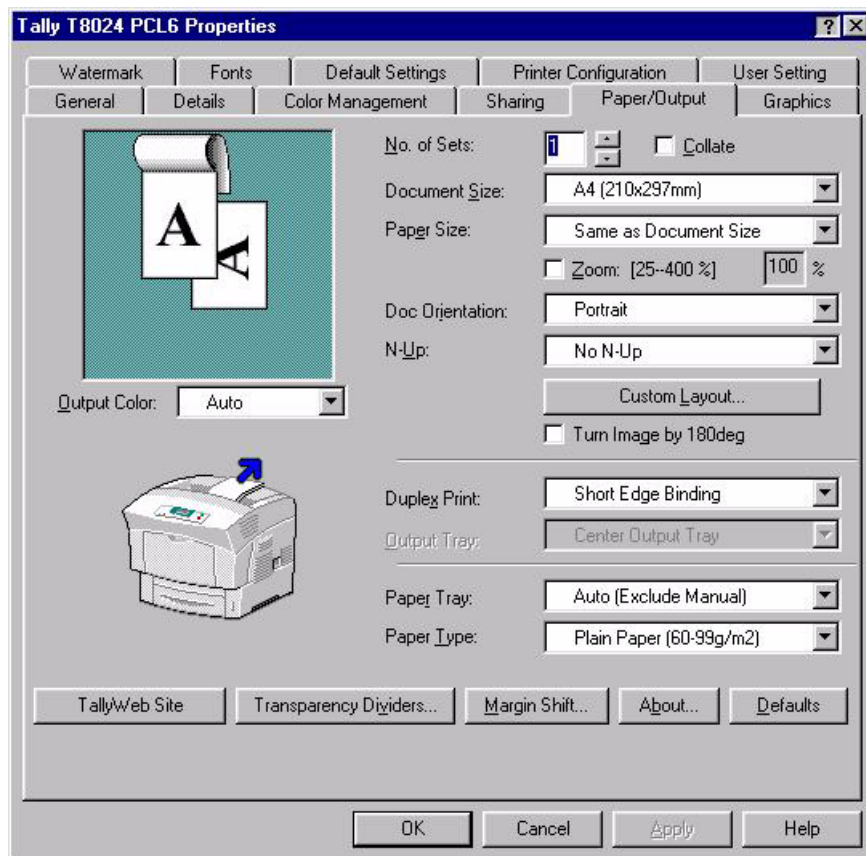
Open the Properties dialog box and select the tab that contains the item in question.

The example below is for the Paper/Output tab in Windows 98.

Move the ? over an item which you require help on, or select help at the bottom of the screen.

See

For details about how to display the Properties dialog box, refer to "3.2 Printing From a Computer" .

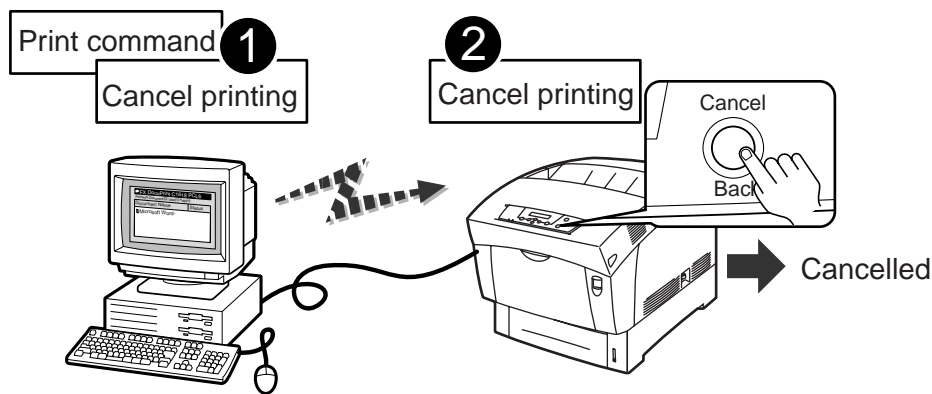


3.4 Canceling Printing

This section explains how to cancel printing.

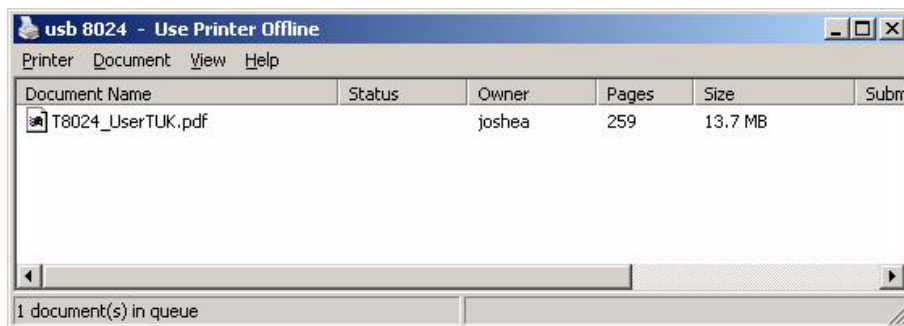
3.4.1 Canceling Printing From the Computer

To cancel printing in Windows, first cancel the print job on the computer, then cancel printing on the printer's control panel.



Procedure

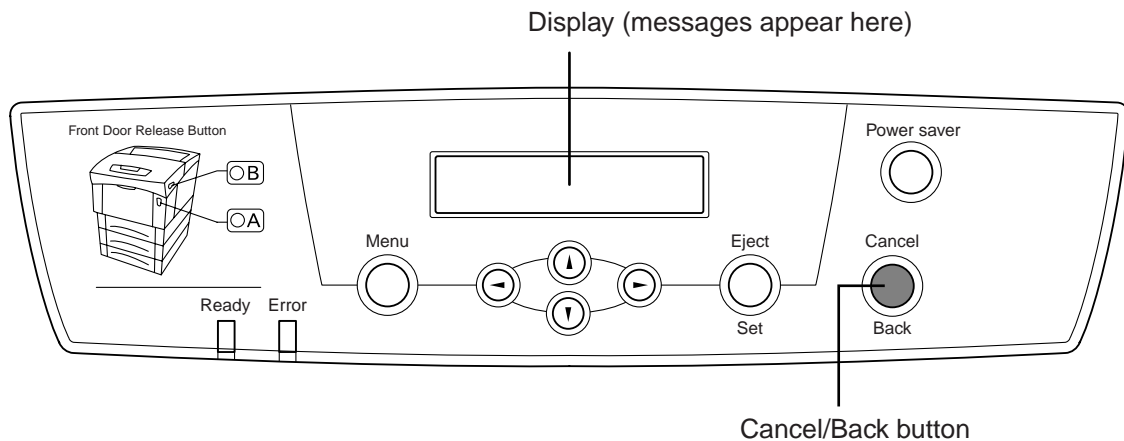
- 1** Click **Start**, select **Settings** and then **Printers**.
The Printers window is displayed.
- 2** Double-click the appropriate printer.
The printer window is displayed.
- 3** Click the document that you want to cancel and press the Delete key on the keyboard.



Continue to "3.4.2 Canceling Printing at the Control Panel".

3.4.2 Canceling Printing at the Control Panel

Perform this operation to cancel the print data from the printer after canceling the print command on the computer. Note that the printer finishes printing the current page. Use the following control panel buttons to cancel printing.



See

For details about control panel operations, refer to "5.2 Basic Menu Operation".

Printing Parallel Tray 1 (The printer is printing)

- 1 Press the Cancel/Back button once.
The printer begins to process the printing cancellation.

Canceling

When the cancellation finishes, the print screen reappears.

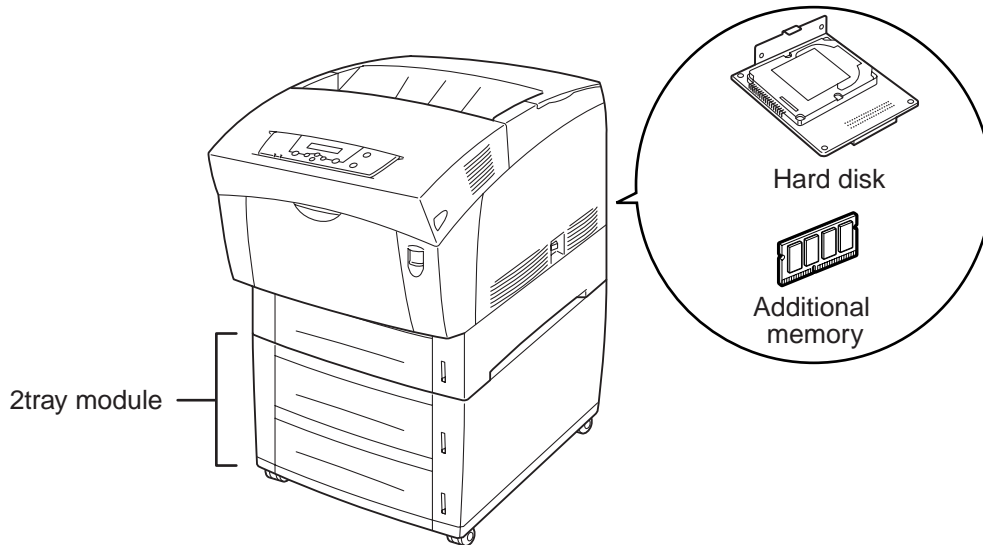
Ready to Print (The print screen. The printer is ready to print.)

3.5

Changing the Configuration for Options

If you add any of the following options to the printer after completing initial set-up, you must reconfigure the PCL6 printer driver.

- Hard disk
- Additional memory
- 2 tray module
- 1 tray module



See

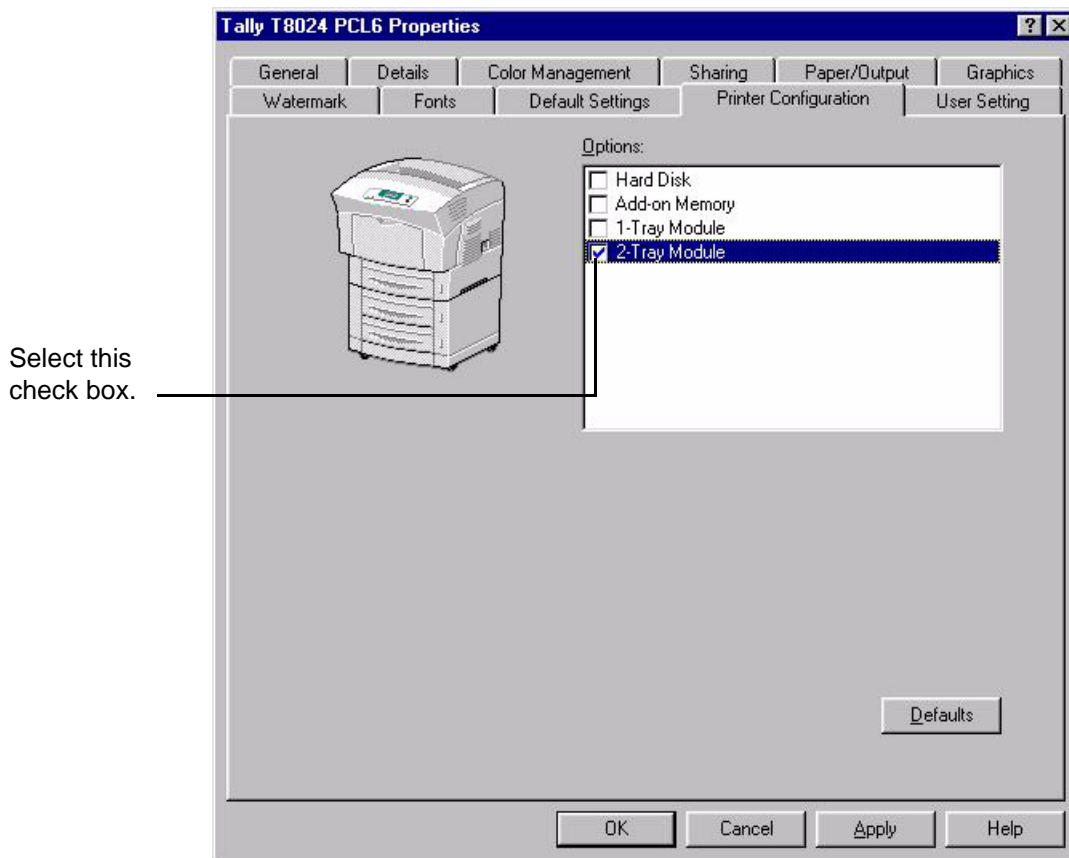
For details about how to install options, refer to appendix A.1.1 “Installing Optional Accessories” or the literature provided with the options. In the following section, it is assumed that the options are already installed.

Follow the procedure below. The following example is for Windows 98.

Procedure

- 1** Click **Start**, select **Settings** and then **Printers**.
The Printers window is displayed.
- 2** Select the appropriate printer and click **Properties** from the File menu.
The Properties dialog box is displayed.
- 3** Click the **Printer configuration** tab.

- 4** Select the options added to the printer and click **OK**.
Example: With the 2 tray module installed.



3.6

Printing on Envelopes, Transparencies, and Custom-size (Long) Paper

If you are printing on special paper, you have to specify the type of paper and image quality in the PCL6 printer driver when you send a print command from the application software. Take care when setting envelopes, because setting them incorrectly may result in text being printed on the wrong side or upside down.

When printing on transparencies or specialty paper, make sure that you set the type of paper and image quality before sending the print command.

Note

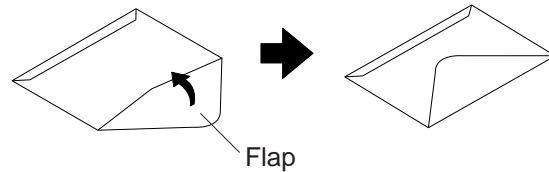
When frequently printing specialty paper in Windows, we recommend that you register the necessary settings in the User Settings tab. Registering the settings saves you time, because you do not need to configure the driver each time you print. For details about the User Settings tab, refer to Help.

3.6.1 Printing on Envelopes

Use the multi purpose tray to print envelopes.

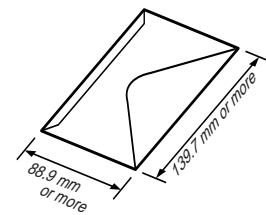
The envelope sizes listed below are those suitable for use with this printer. Make sure that the flap is closed, and set the envelopes with the flap facing to the right.

- Com-10
- Monarch
- C5
- DL

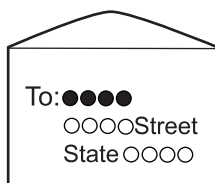


LOOK

- Do not use envelopes that have tape seals. Printing some types of preglued envelopes may not be possible, depending on the condition of the adhesive.
- Do not use envelopes larger than 88.9 mm wide and 139.7 mm long.
- Using poor-quality envelopes can cause creasing and inferior print quality.



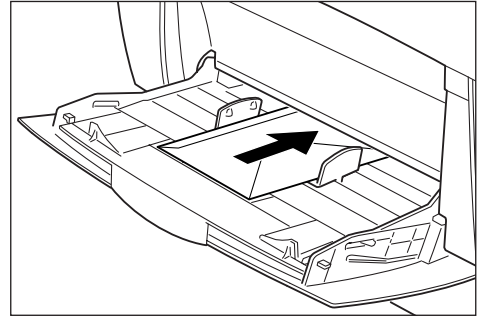
The following is an example of how to print the address on an envelope.
Example:



printed like this.

Procedure

- 1** Adjust the paper guide to the mark corresponding to the size that you are about to use.
- 2** Make sure the flap is closed, then load the envelope with the side to be printed facing down and the flap to the right.
- 3** Launch printing from your program after setting the envelope in the printer.
Now set the items in "Printer Driver Settings (for envelopes)" as shown below:



••• Printer Driver Settings (for envelopes)

■ Windows settings:

Tab	Item	Value
Paper/Output	Paper Size	Set Com-10, Monarch, C5, DL or "Same as Document Size" (If the original size is Com-10, Monarch, C5, and DL)
	Turn Image by 180 deg	Clear checkmark (When the flap is set on the left side, select this option.)
	Paper tray	manual
	Duplex	No Duplex
	Media Type	Envelope

Note

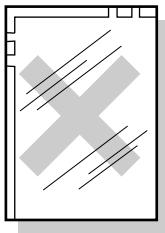
For details about individual printer driver items, refer to Help. For details about how to use Help, refer to "3.3 Using Online Help".

3.6.2 Printing on Transparencies

Use the multi purpose tray to print transparencies.
You can print in color on transparencies using the T8024.

LOOK

Use only the recommended types of transparencies. Do not use any other types, such as color transparencies (bordered with a white frame).
Using unsuitable transparencies may damage the printer.



Full color
transparencies

Do not use transparencies bordered with a white frame.

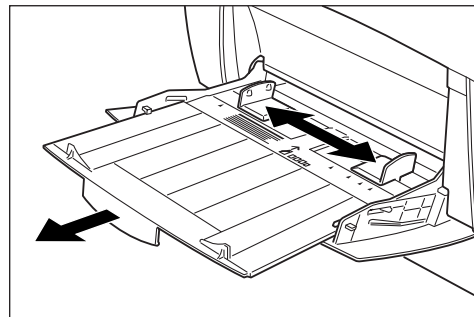
LOOK

Remove each transparency from the face down tray as soon as it is output. When transparencies are allowed to accumulate in the face down tray, static electricity can build up and cause jams.

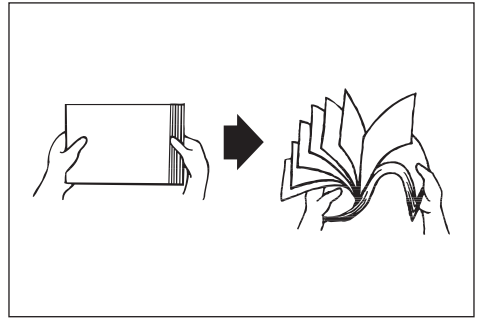
Follow the procedure below to print transparencies.

Procedure

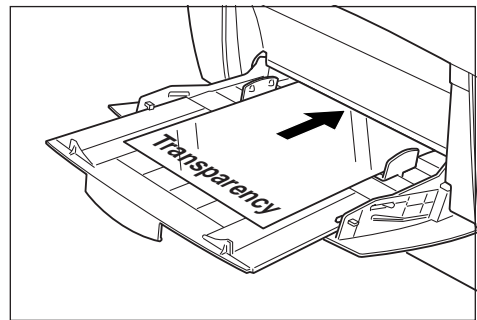
- 1 Adjust the paper guide to the mark corresponding to the size that you are about to use.



- 2** Fan a few transparencies at a time.



- 3** Insert the transparencies into the multi purpose tray until they lightly touch the feeding slot.



- 4** Launch printing from your program after loading the transparencies in the printer.

Now set the items for "Printer Driver Settings (for transparencies)" as shown below:

●●● Printer Driver Settings (for transparencies)

■ Windows settings:

Tab	Item	Value
Paper/Output	Paper Size	Set A4 or "Same as Document Size" (if the original size is A4)
	Paper tray	Manual
	Duplex	No Duplex
	Media Type	Transparency
Graphics	Document types (with display all Document types box selected)	Transparencies

Note

You can also print transparencies with paper inserted between the sheets. See the transparency dividers tab under paper/output for details about the way to set paper between the transparencies and the functions of individual printer driver items, refer to Help. For details about how to use Help, refer to "3.3 Using Online Help".

3.6.3 Printing Custom-size (Long) Paper

Using the multi purpose tray enables you to print custom-size paper or long paper, longer than legal portrait (355.6 mm).

The paper sizes suitable for use with this printer are as follows:

- One-sided printing: Width 90–216 mm: Length 139.7–900.0 mm
- Two-sided printing: Width 90–216 mm: Length 139.7–355.6 mm

LOOK

Feeding custom-size paper sideways is not possible. Always feed this type of paper lengthwise.

To print on custom-size paper, you must set the paper size as a user defined size first.

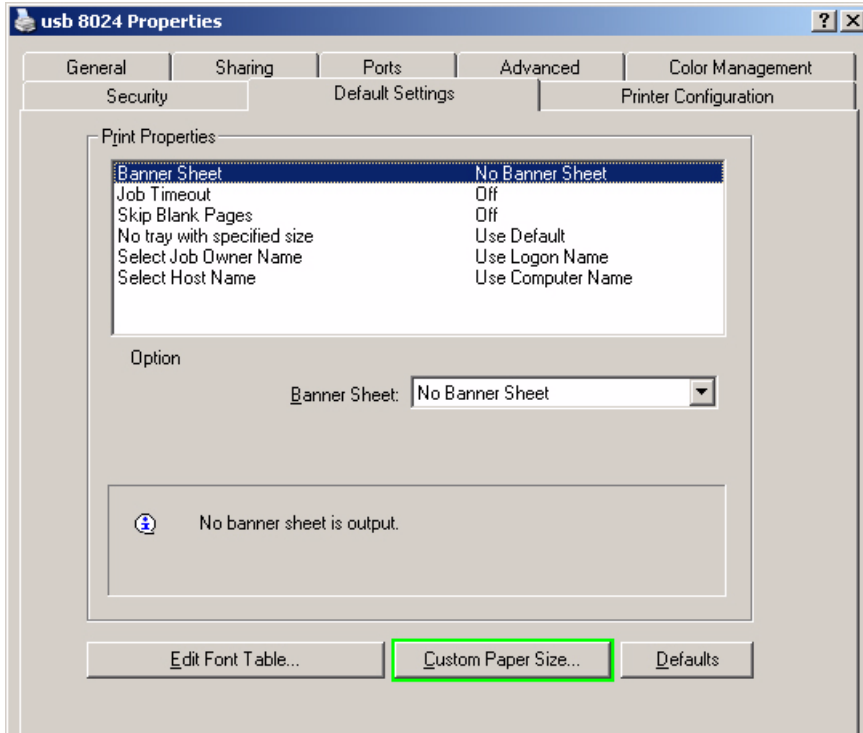
••• **Setting a User Defined Size**

In Windows, you need to set the user defined size using the following procedure before launching the printing command from a program. The following example is for Windows 98.

Procedure

- 1** Click **Start**, select **Settings** and then **Printers**.
The Printers window is displayed.
- 2** Select the appropriate printer and click **Properties** from the File menu.
The Properties dialog box is displayed.

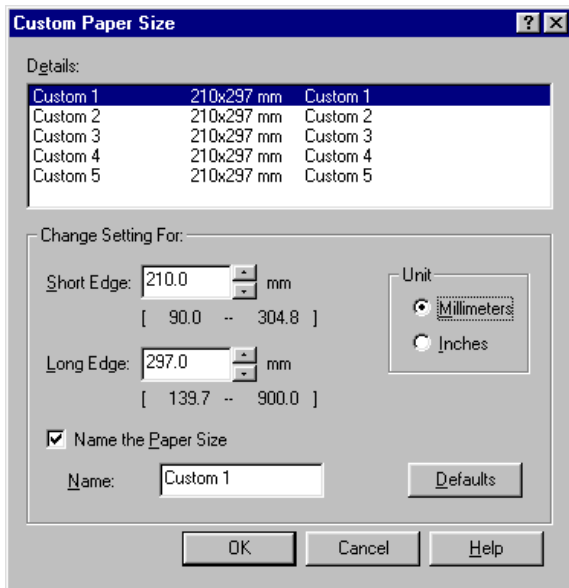
3 Click the **Default Settings** tab.



4 Click **Custom Paper Size**.

The Custom Paper Size dialog box appears.

5 Select one of the five paper sizes.



See

For details of the Custom Paper Size dialog box settings, refer to Help. For details about how to use Help, refer to "3.3 Using Online Help".

6 When you finish making the settings, click **OK** in the Custom Paper Size dialog box.

7 In the Properties dialog box, click **OK**.

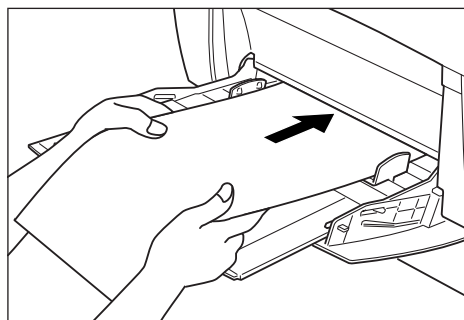
The user defined size is now set.

••• How to Print

Follow the steps below to print on custom-size (long) paper.

Procedure

- 1** Adjust the paper guide to the width of the paper that you are about to use.
- 2** With the printed side facing down, set the paper into the multi purpose tray so that it lightly touches the feeding slot.
- 3** Launch printing from your program after setting the paper.
Set the items for "Printer Driver Settings (for Custom-size (Long) Paper)" as shown below:



LOOK

When printing on long paper, after giving the print command, support the paper with your hands while it feeds in the printer.

••• Printer Driver Settings (for Custom-size (Long) Paper)

■ Windows settings:

Tab	Item	Value
Paper/Output	Paper Size	Select a setting from Custom 1 to Custom 5. (The paper size selected in the Custom Paper Size dialog box on the Configuration tab.)
	Paper tray	Manual

Note

For details about individual printer driver items, refer to Help.
For details about how to use Help, refer to "3.3 Using Online Help".

3.7 Two-sided Printing

You can use one of the following procedures to do use the printer for two-sided printing.

- For plain paper, whether fed from a paper tray or the multi purpose tray, two-sided printing is carried out automatically if you select it in the PCL6 printer driver upon executing the print command.
- For specialty paper such as envelopes or heavy weight paper, you can print the back surface of the paper from the multi purpose tray as long as the front surface of the paper was printed using this printer.

See

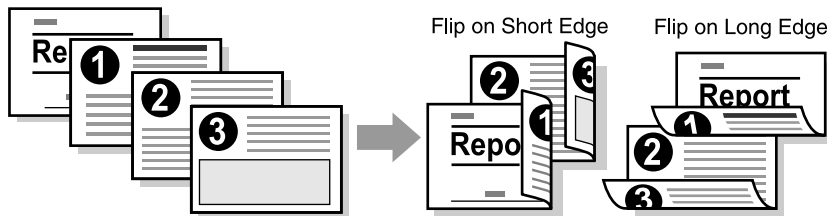
For details about the types of paper suitable for two-sided printing, refer to "Suitable and Unsuitable Paper Types".

Note

If you use two-sided printing frequently in Windows, we recommend that you register the necessary settings in the User Settings tab. Registering the settings saves time, because you do not need to configure the driver each time you print. For details about the User Settings tab, refer to Help.

••• Types of Two-sided Printing

There are two types of two-sided printing: "Flip on Long Edge" and "Flip on Short Edge". The results of printing with the two types are shown below:



3.7.1 Two-sided Printing

To print on both sides of plain paper, set the paper into the paper tray or multi purpose tray.

You can use the following paper sizes for two-sided printing:

- Min. W: 149 mm x L: 210 mm Corresponding to A5 size
- Max. W: 216 mm (8.5 inch) x L: 356 mm (14 inch)
 Corresponding to 14 inch Legal size

Follow the procedure below to print on both sides of plain paper.

See

To print on both sides of specialty paper such as envelopes, heavy weight paper, or glossy paper, refer to "3.7.2 Two-sided Printing on Specialty Paper".

Procedure

- 1 Set the paper lengthwise into the paper tray or multi purpose tray.

LOOK

When printing on both sides of long-sized, plain paper (paper that exceeds 356 mm in length), print one sheet at a time from the multi purpose tray.

- 2 Launch printing from your program after setting the paper.
 Now set the items for "Printer Driver Settings (for two-sided printing on plain paper)" as shown below:

••• Printer Driver Settings (for two-sided printing on plain paper)

■ Windows settings:

Tab	Item	Value
Paper/Output	Duplex	"Flip on Long Edge" or "Flip on Short Edge"
	Media Type	Plain Paper

Note

With custom sizes, it is necessary to configure other items to suit the paper size. Refer to the previous section or the printer driver Help for details about these settings. For details about how to use Help, refer to "3.3 Using Online Help".

3.7.2 Two-sided Printing on Specialty Paper

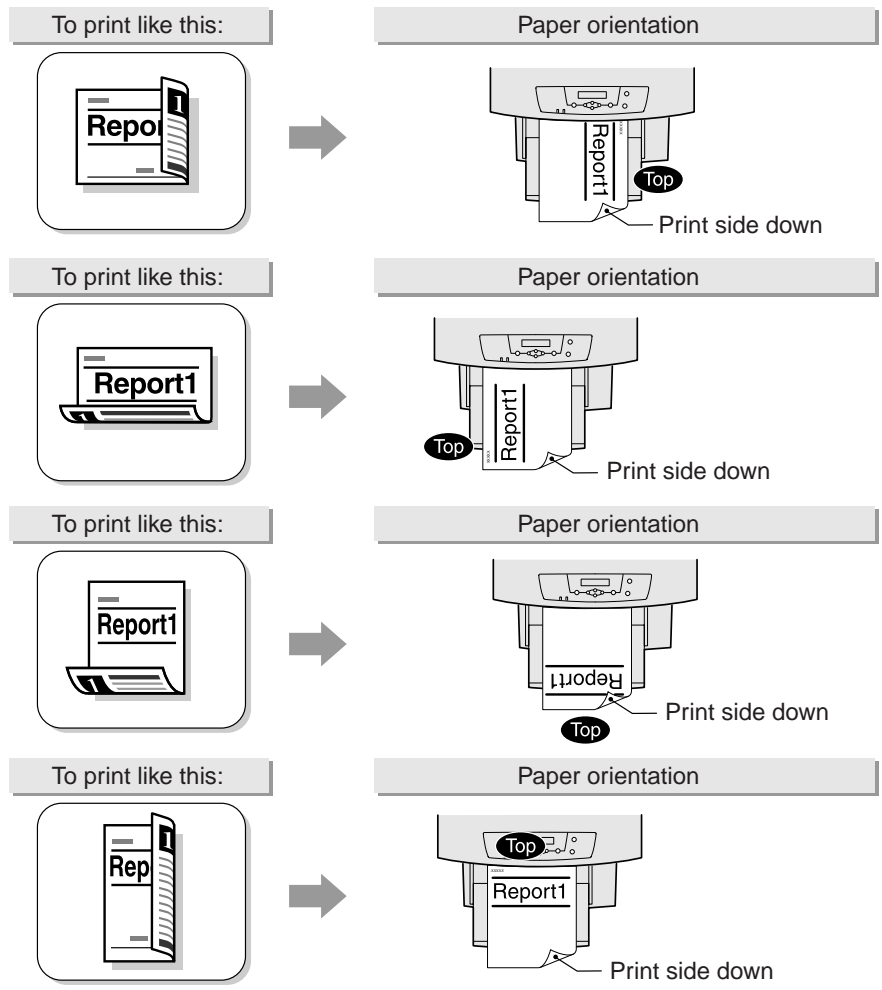
Provided the front side of the paper has been printed using the T8024, you can use the multi purpose tray to print on the back of the following types of specialty paper.

- Heavy weight paper
- Envelopes
- Glossy paper

LOOK

Avoid printing on paper preprinted with another printer, as this can damage the printer.

Set the paper in the multi purpose tray according the orientation of the original or the desired binding orientation.



Top means the top of the document.

When printing on the back of specialty paper, make sure that you configure the items below in the PCL6 printer driver when giving the print command from the program.

●●● Printer Driver Settings (when printing on side 2 of a printed paper)

■Windows settings:

Tab	Item	Value
Paper/Output	Paper tray	Manual
	Media Type	xxx (Side 2) (xxx refers to the type of paper)

Note

With custom sizes, it is necessary to configure other items to suit the paper size. Refer to the previous section or the printer driver Help for details about these settings. For details about how to use Help, refer to "3.3 Using Online Help".

Chapter

4

Loading Paper and Usable Paper Types

4.1	Suitable and Unsuitable Paper Types	94
4.2	Loading Paper	100

4.1

Suitable and Unsuitable Paper Types

Using paper that is unsuitable for printing can cause paper jams and deteriorate print quality. We recommend that you use the types of paper listed below for the best results from your printer.

4.1.1 Suitable Paper Types

●●● Plain Paper

Standard paper for this printer is as follows:

Standard Paper	Specifications
XC-4200DP 20lb Letter	Standard paper (G.S.M.: 60 to 105 g/m ²)
XC Premier TCF A4	
P Paper A4	



Note

G.S.M. is a measure of the substance of paper expressed in grammes per square meter, which does not depend on the number of sheets in the ream.

●●● Special Paper

In addition to plain paper, you can use the following types of special paper.



- Transparency sheets
- Label sheets (uncut)
- Envelopes (Com-10/Monarch/C5/DL)
- Postcards
- Cardboard (max. density 216 g/m²)



- *When printing on rigid cardboard, the image position may shift.*
- *Do not use envelopes that have a tape seals on the adhesive of the flap. Printing some types of preglued envelopes may not be possible, depending on the condition of the adhesive.*
- *Using postcards that have already been printed to on one side and are warped can cause paper jams. Flatten warped postcards with your hands before loading them. Avoid printing on preprinted multicolored postcards.*

●●● Paper Trays, Types, and Sizes

You can load the following types of paper into the paper tray or multi purpose tray.

Feeding Method	Paper Type/number of Sheets		Size
Multi Purpose Tray	Plain paper Postcards Envelopes Label sheets Transparency sheets	Up to 100 sheets or a 10mm stack	A5 (210×149 mm) portrait B5 (257×182 mm) portrait A4 (297×210 mm) portrait Executive (266.7×184.2 mm) portrait Letter (279.4×215.9 mm) portrait Legal 13" (330.2×215.9 mm) portrait Legal 14" (355.6×215.9 mm) portrait Postcards Envelopes (Com-10/Monarch/C5/DL) Custom size (width: 88.9 to 215.9 mm, length: 139.7 to 900 mm) LOOK  <ul style="list-style-type: none"> • Using low-quality paper can cause creasing and deteriorate print quality. • When printing on paper longer than 355.6 mm, support the paper with your hands while it feeds through the printer.
	Paper longer than 355.6 mm	sheet	
Standard paper tray (tray 1)	Plain paper	Up to 500 sheets or a 56mm stack	A5 (210×149 mm) portrait B5 (257×182 mm) portrait A4 (297×210 mm) portrait Executive (266.7×184.2 mm) portrait Letter (279.4×215.9 mm) portrait Legal 13" (330.2×215.9 mm) portrait Legal 14" (355.6×215.9 mm) portrait
Tray module (1 or 2 cassettes) (Trays 2 and 3)		LOOK  For A5 portrait, you can use up to 350 sheets or a 40 mm stack.	



The number of sheets that you can load varies according to paper thickness.

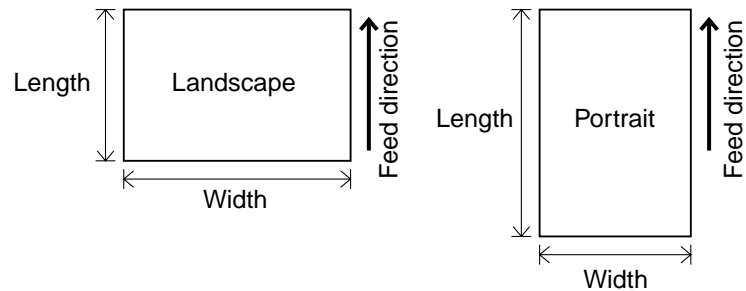
••• Duplex Printing Paper Types and Sizes

The various paper types and sizes you can use for duplex printing are as follows:

Paper Type	Size
Plain paper	A5 (210×149 mm) portrait B5 (257×182 mm) portrait A4(297×210 mm) portrait Executive (266.7×184.2 mm) portrait Letter (279.4×215.9 mm) portrait Legal 13" (330.2×215.9 mm) portrait Legal 14" (355.6×215.9 mm) portrait



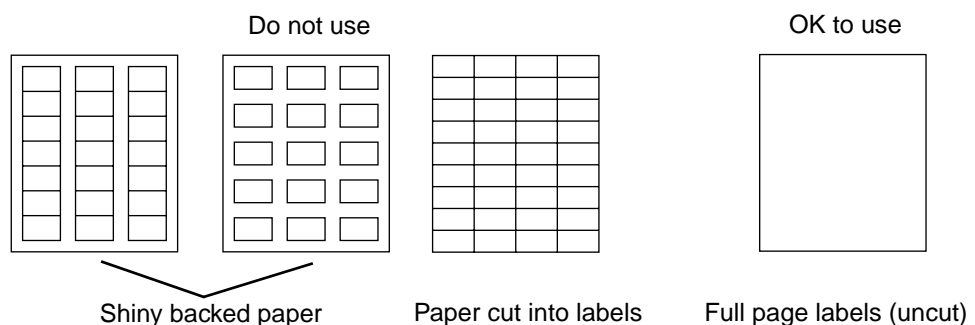
The illustrations below provide a description of 'width,' 'length,' 'portrait' and 'landscape,' mentioned in the tables above.



4.1.2 Unsuitable Paper types

Avoid using the following paper types as they can cause paper jams or damage to the printer.

- Transparency sheets other than those recommended
- Ink jet paper
- Paper that is too thick or too thin
- Paper with one face already printed using another printer or copier, or paper already printed with ink
- Folded, creased or torn paper
- Damp or wet paper
- Undulated or warped paper
- Sheets adhered by static electricity
- Layered or adhesive paper
- Coated paper
- Colored paper with a treated surface
- Paper printed with ink that cannot withstand temperatures of 155°C.
- Heat-sensitive paper
- Carbon paper
- Paper with staples, paper clips, tape or ribbons attached
- Paper with a rough surface such as textured or fiber form paper
- Using acidic paper can cause the characters to fade over time. Use neutral paper to prevent this problem.
- Envelopes with a rough surface or clips attached
- Envelopes with sticky adhesive (Printing on some types of envelopes with adhesive is possible, depending on the condition of the adhesive.)
- Label sheets where the backing has peeled away or are pre-cut.



- T-shirt transfer paper (Heat press use)
- Transfer paper (cold water use)
- Luminous paper
- Glossy paper
- Label film (transparent, colorless)
- Opaque film

- Digital coated glossy paper
- Adhesive paper (transparent, colorless)
- Paper with holes

4.1.3 Storing Paper

Failure to properly store paper can result in paper jams, impaired print quality, or damage to the printer. Store paper under the following conditions:

- Temperature 10 to 30°C
- Relative Humidity 30 to 65 %
- In a dry place
- After opening the package, wrap unused sheets in their original package and store in a cabinet or other dry place.
- Store paper on a flat surface. Do not lean paper against other objects or place it in an upright position.
- Avoid storing paper in way that may cause creasing, folding, or curling.
- Store paper away from direct sunlight.

4.2

Loading Paper

This section describes the following loading methods:

- Loading paper in the paper tray
- Loading paper in the multi purpose tray
- Loading transparency sheets in the multi purpose tray
- Loading postcards in the multi purpose tray
- Loading envelopes in the multi purpose tray



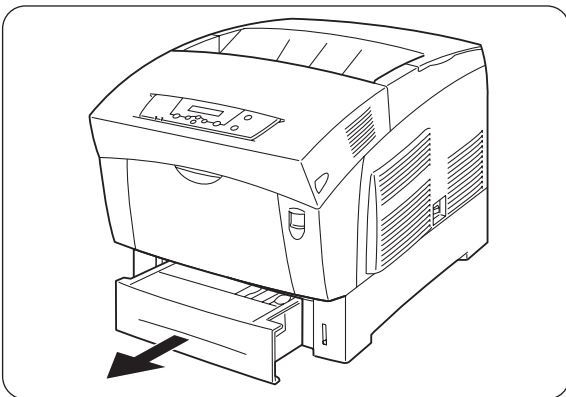
For information about suitable paper types, refer to “2.2 Paper Handling”.

4.2.1 Loading Paper in the Paper Tray

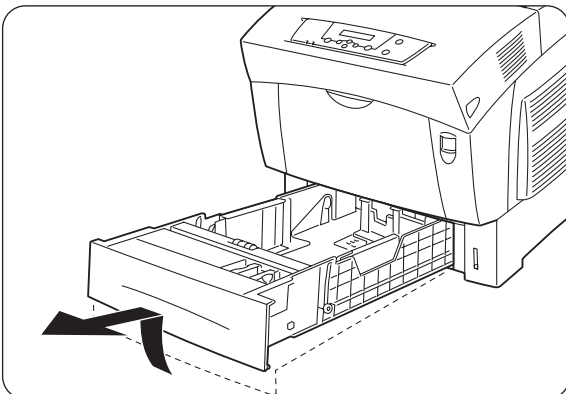
Follow the procedure below to load paper into the paper tray.



Load paper into the optional tray module (1 or 2 cassettes) the same way.



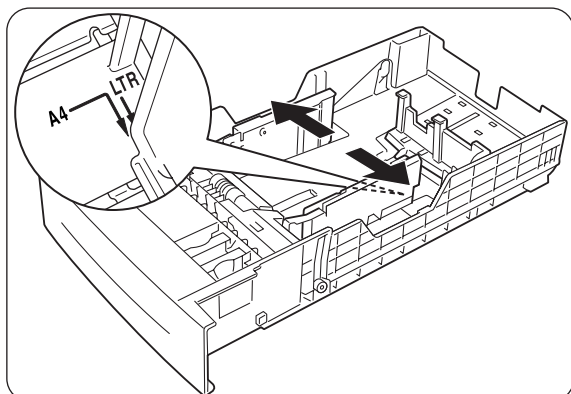
- 1 Gently pull out the paper tray until it stops.



- 2 Hold the tray with both hands, lift the front slightly and pull it completely out of the printer.



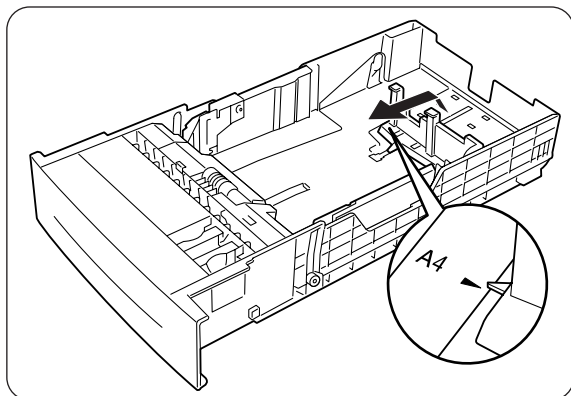
Place the tray on a flat surface.



- 3 Move the side paper guide out so as to align it with the appropriate paper size mark (A4 in this example).

Note

Proper guide position differs between A4 and Letter. Align the side guide to the size mark corresponding to the paper size that you want to load.



- 4 Grip the end paper guide with your fingers and gently lift it up. Insert the pins at the bottom of the guide in the holes corresponding to the paper size that you want to load (A4 in this example).

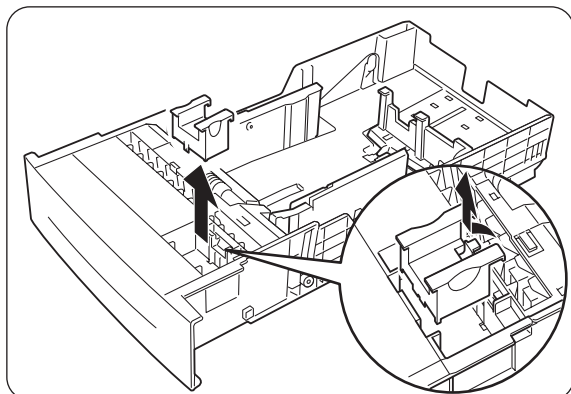
LOOK

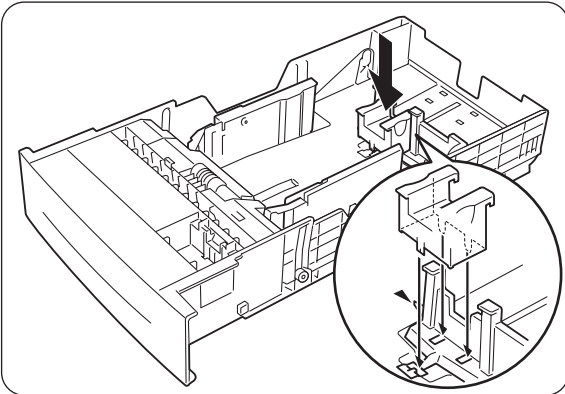
- Make sure that the end guide is properly inserted into the holes corresponding to the appropriate paper size.
- Only a small amount of movement of the end paper guide can make automatic paper size detection impossible. If this occurs, move the end paper guide all the way to its outermost position again, then realign it with the appropriate paper size mark.

Note

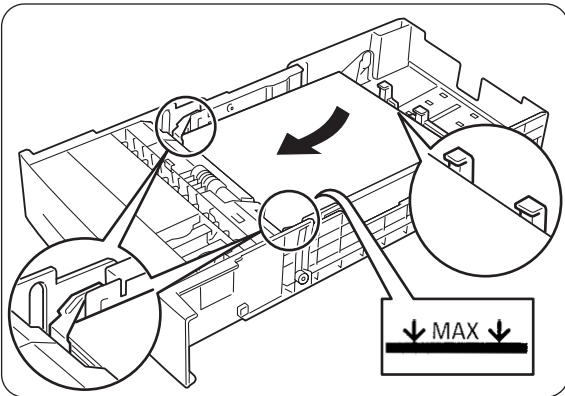
To set A5 paper, use the provided A5 spacer.

① Remove the A5 spacer from the tray.





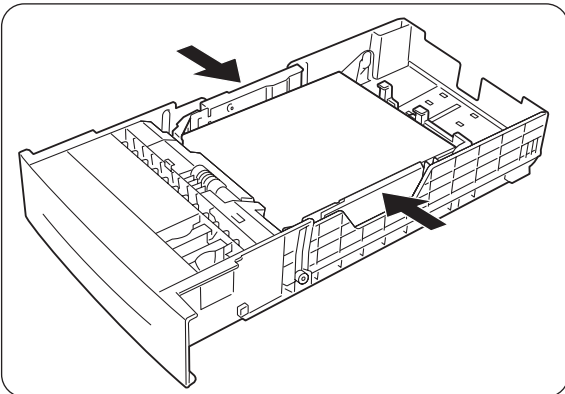
② Set the end guide into the appropriate paper size mark, and then insert the A5 spacer in front of the end guide.



⑤ Align the four corners of the paper stack and insert the paper (print side up) under the tab.

LOOK 

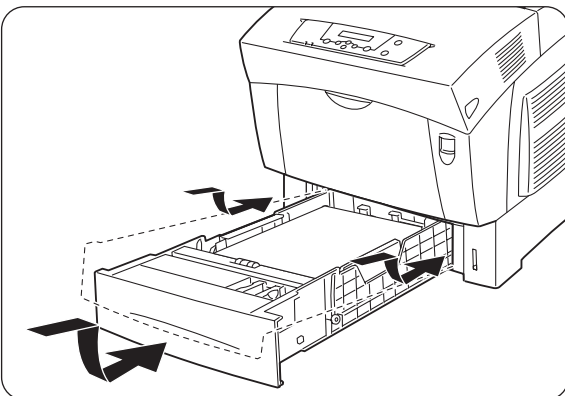
- Do not use paper that is folded, creased, or heavily warped.
- Do not overload the paper tray.



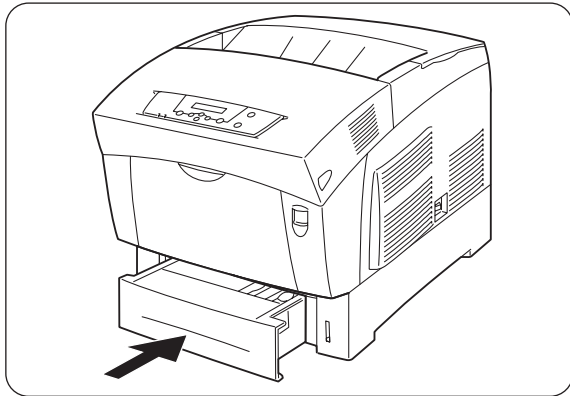
⑥ Make sure that the side guides are aligned with the edges of the paper.

LOOK 

Pushing the paper guides too hard against the edges of the paper stack can cause a paper jam. However, if the paper guides are too loose, the paper may twist as it feeds through the printer.



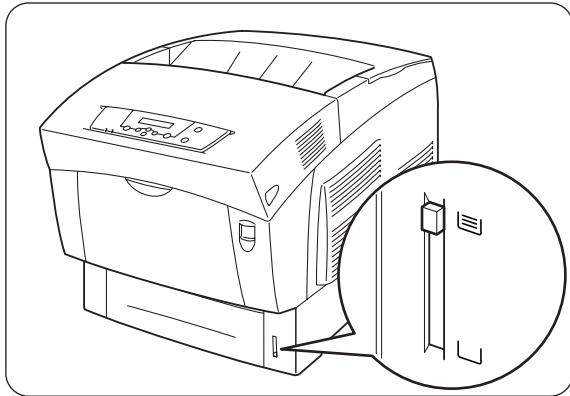
⑦ Hold the paper tray with both hands, align it with the opening in the printer and gently insert it.



- 8** Push the paper tray completely back into the printer.



Do not use excessive force on the paper tray. Doing so could damage the paper tray or the inside of the printer.



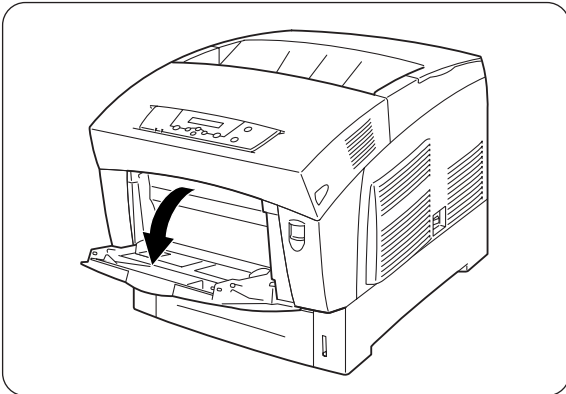
There is an indicator next to the paper tray that tells you how much paper remains in the tray. Use this meter as a guide to refill the paper tray.

4.2.2 Loading Paper in the Multi Purpose Tray

Follow the procedure below to load paper into the multi purpose tray.



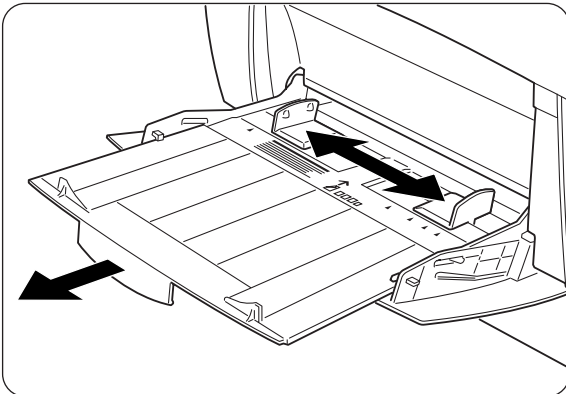
To avoid paper jams, do not load paper of different sizes into the tray at the same time and do not refill the tray before it is empty.



1 If retracted, open the tray.



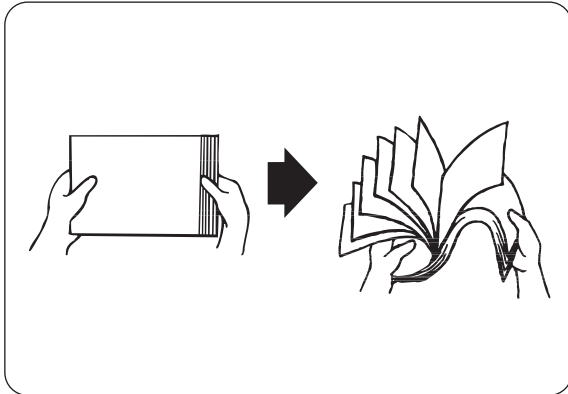
To avoid damage to the tray, do not use excessive force or place heavy objects on the tray.



2 Align the paper guide with the mark of the desired paper size.



When printing on long paper, pull out the tray extension. Printing long paper with the tray extension unused can cause the paper to fall out or make feeding impossible.



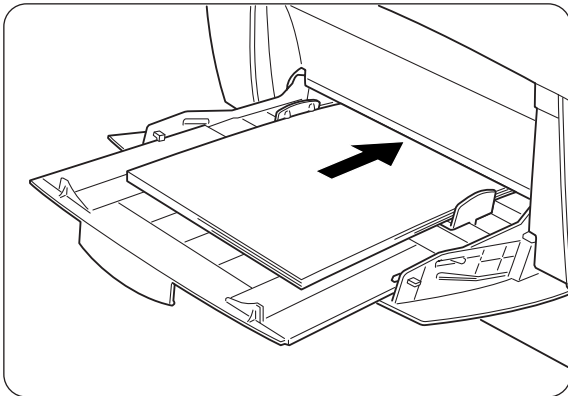
- 3 When using media such as transparency sheets, label sheets, or envelopes, fan the stack before loading so that there is air between the sheets.

Note

Fanning the stack helps prevent paper jams caused when more than one sheet feeds at the same time.

LOOK

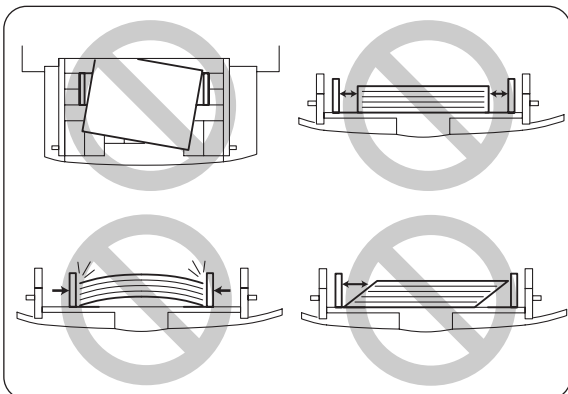
- Do not fan plain paper before loading.
- If the paper is poorly cut and the edges are not clean, remove any unsuitable sheets before loading the paper.



- 4 Align the four corners of the paper stack and insert it (print side down) until it lightly touches the feeding slot.

LOOK

- Do not use paper that is folded, creased, or heavily warped.
- Do not overload the paper tray.
- When printing on sheets longer than Legal portrait (355.6mm), load the sheets one at a time, and support the sheet with your hands to ensure proper feeding.



- 5 When loading paper, carefully align the paper guides with the edges of the paper so that there is a small gap between the paper stack and the guides. Pushing the paper guides too hard against the edge of the paper stack can warp the paper and cause paper jams. Load the paper so that it is straight in the tray.

LOOK

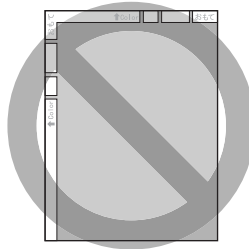
If the paper is not loaded correctly, the printing position may shift and cause incorrect printing.

4.2.3 Loading Transparency Sheets in the Multi Purpose Tray

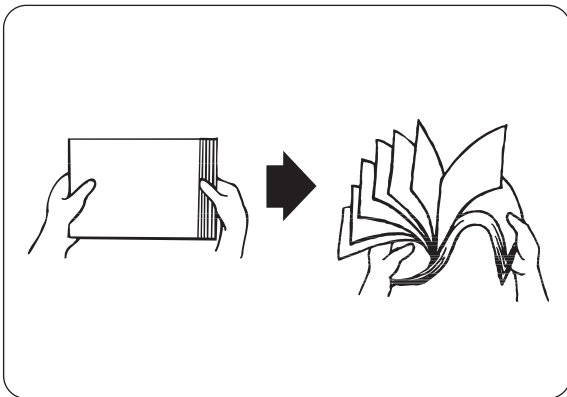
Feed transparency sheets from the multi purpose tray.



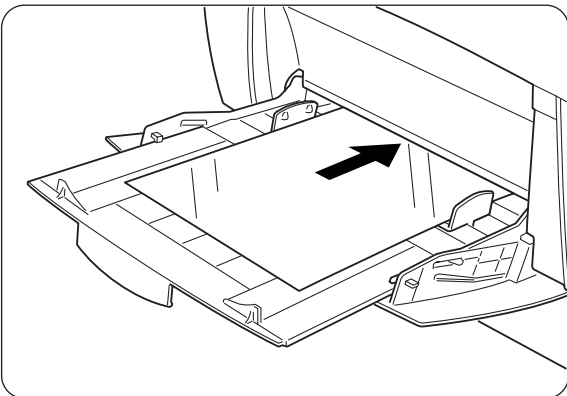
Use only the recommended types of transparency sheet. Do not use any other types, such as color transparency sheets (bordered by a white frame).



Remove each transparency sheet from the face down tray as soon as it is ejected. If transparency sheets are allowed to accumulate in the face down tray, static electricity can build up and cause a jam.



1 Fan a few transparency sheets at a time.



2 Insert the transparency sheets into the multi purpose tray until they lightly touch the feeding slot.

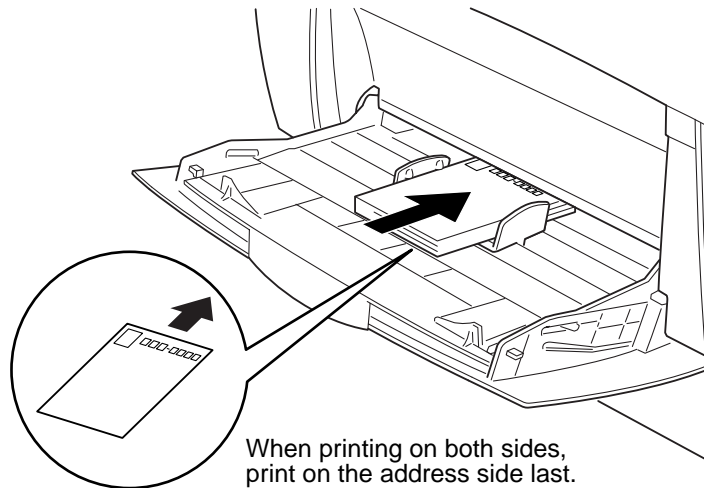
4.2.4 Loading Postcards in the Multi Purpose Tray

Feed postcards from the multi purpose tray.

When duplex printing postcards, print on the address side last. If you print on the address side first, depending on the illustration on the reverse side, the printing may smudge.



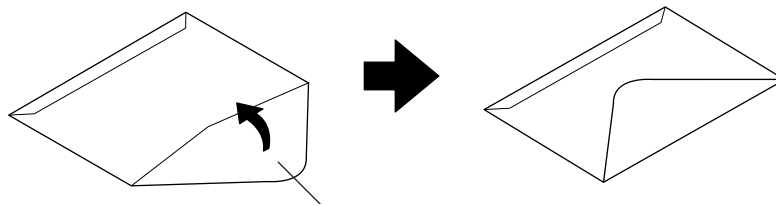
When printing on the back of pre-printed postcards, make sure the postcards are not bent. Even slightly bent postcards can cause paper jams. Flatten bent postcards by hand before loading them. Avoid printing on preprinted multicolored postcards.



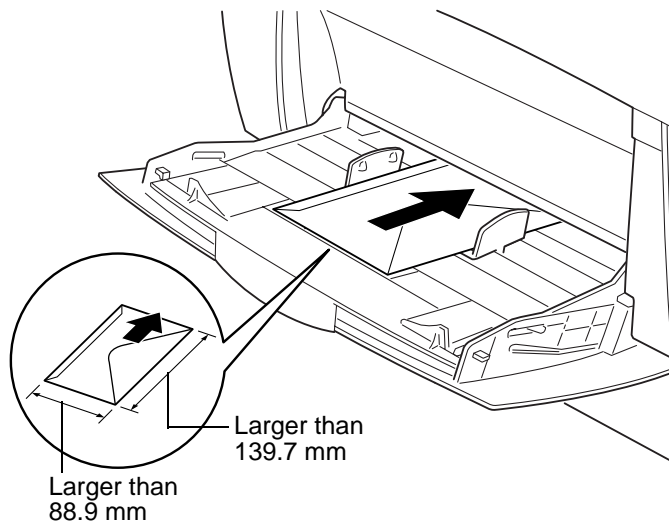
When printing on both sides, print on the address side last.

4.2.5 Loading Envelopes in the Multi Purpose Tray

Feed envelopes from the Multi Purpose Tray. Open the envelope flaps before feeding and load them as illustrated below. You can use Com-10, Monarch, C5, and DL envelopes.



- Do not use envelopes that have tape seals. Printing some types of preglued envelopes may not be possible, depending on the condition of the adhesive. Do not use envelopes larger than 88.9 mm wide and 139.7 mm long.
- Set envelopes in the tray so that the flap faces out, faces left, or faces right.
- Using poor quality envelopes can cause creasing and deteriorate print quality.



Chapter

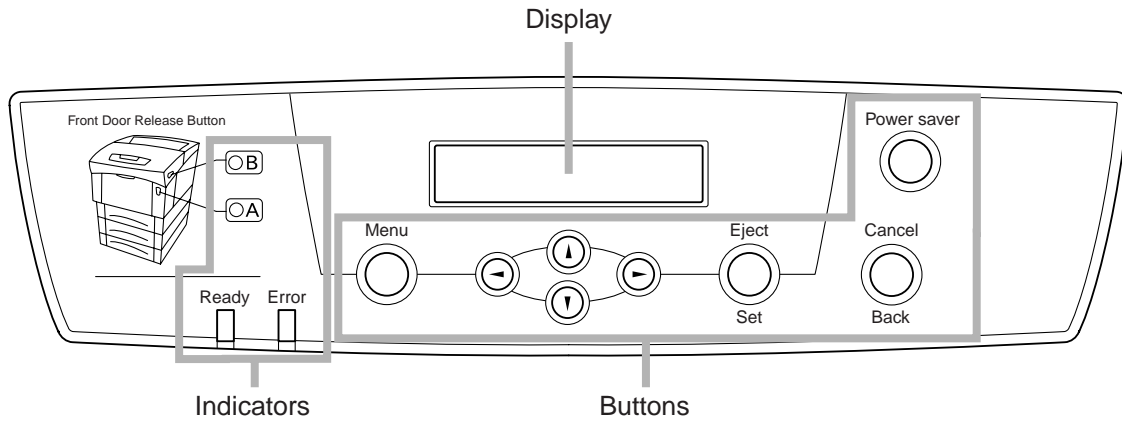
5

Control Panel

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5.1 Control Panel Part Names and Functions

The control panel consists of indicators, a display, and buttons. This section describes the names and functions of the control panel's parts.



5.1.1 LED Indicators

The LED indicators are on, blinking, or off to indicate the status of the printer.

Name	Explanation
Ready indicator	<p>Green: Indicates the printing status.</p> <p>On: Printing is possible. Also, this lights when the printer is not receiving print data while processing the print job.</p> <p>Blinking: The printer is receiving print data.</p> <p>Off: Printing is not possible.</p>
Error indicator	<p>Red: Indicates an error.</p> <p>On: Indicates a paper jam or other problem that the user can rectify.</p> <p>Blinking: There is a problem that the user cannot rectify. Contact your Tally service or dealer.</p> <p>Off: The printer is functioning normally.</p>
A indicator B indicator	<p>Indicates what buttons to press to open the front door to clear paper jams.</p> <p>On: Press the button indicated and open the front door.</p> <p>Off: The printer is functioning normally.</p>

5.1.2 Display

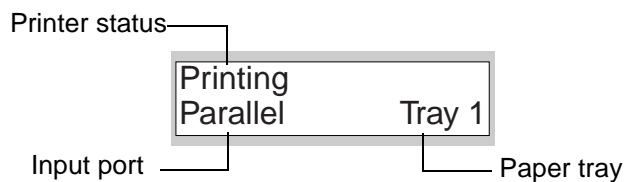
Displays printer status (print screen) and menus for configuring the printer (menu screen).

Note

The items displayed differ depending on printer settings and installed options.

●●● Print Screen

When the printer is waiting for data or printing, this screen is displayed. The contents of the print screen are as follows.

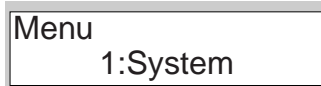


Name	Explanation
Printer status	Shows the printer status. Example: "Please Wait...", "Printing", "Ready to Print".
Input port	Shows the port through which the printer is receiving data. Example: "Parallel", "USB", "Port 9100", "LPD", "NetWare".
Paper tray	Shows the paper tray in use. Example: "Tray 1", "Tray 2", "Tray 3", "Manual".

●●● Menu Screen

Use this screen to configure the printer.

The menu screen appears when you press the Menu button. The first screen displayed contains the following:



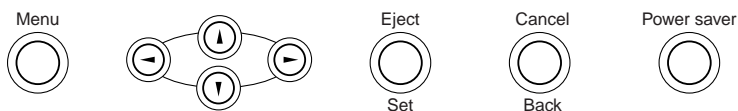
See

For details about the menu screen, refer to "5.2 Basic Menu Operation".

5.1.3 Buttons

There are eight buttons on the control panel.

Their functions depend on the screen displayed. The functions are as follows:



Name	Print screen	Menu screen
Menu button	Switches to the menu screen.	Closes the menu screen and switches to the print screen.
▼ ▲ buttons	-	Allows you to scroll through menus and menu items.
◀ ▶ buttons	-	Switches to different menu levels and moves the cursor between parameters. Pressing the ▶ button in a menu moves the menu one level down. Pressing the ◀ button moves the menu one level up.
Set/Eject button	Forces the remaining print data to be output. For details about this function, refer to "6.9 Forcing the Printer to Print Remaining Data (When Printing is Halted)"	Selects menus and menu items. Moves the menu one level down when a menu is selected. Sets a parameter when one is displayed.
Cancel/Back button	Cancels printing. For details about this function, refer to "3.5 Canceling Printing".	Moves the displayed menu one level up.
Power saver button	Releases the printer from power saver mode 2.	-

5.2

Basic Menu Operation

This section describes how to use the menu screen to set the power saver modes, job timeout, network settings, and printer configuration.

5.2.1 Configuration of Basic Menu and Basic Operations

The menu screen contains the following main menus.



For details about individual menu screens, refer to "5.3 List of Menu Items".

Menu	Content
1: System	Used to configure the power saver modes, job log settings, and basic printer operation.
2: Maintenance	Use this to initialize the NV memory or adjust plain paper quality settings. You can also make security settings to restrict access to certain menus.
3: Parallel	Use this to configure the parallel interface.
4: Report/List	Use this menu to print the Printer Settings, Panel Settings, PCL6 Fonts List, and log print.
5: Network	Use this to make network settings.

Please note that each menu has several levels. Configure the printer by selecting the different levels and setting the items therein.

●●● Example of Menu Levels and Basic Operations

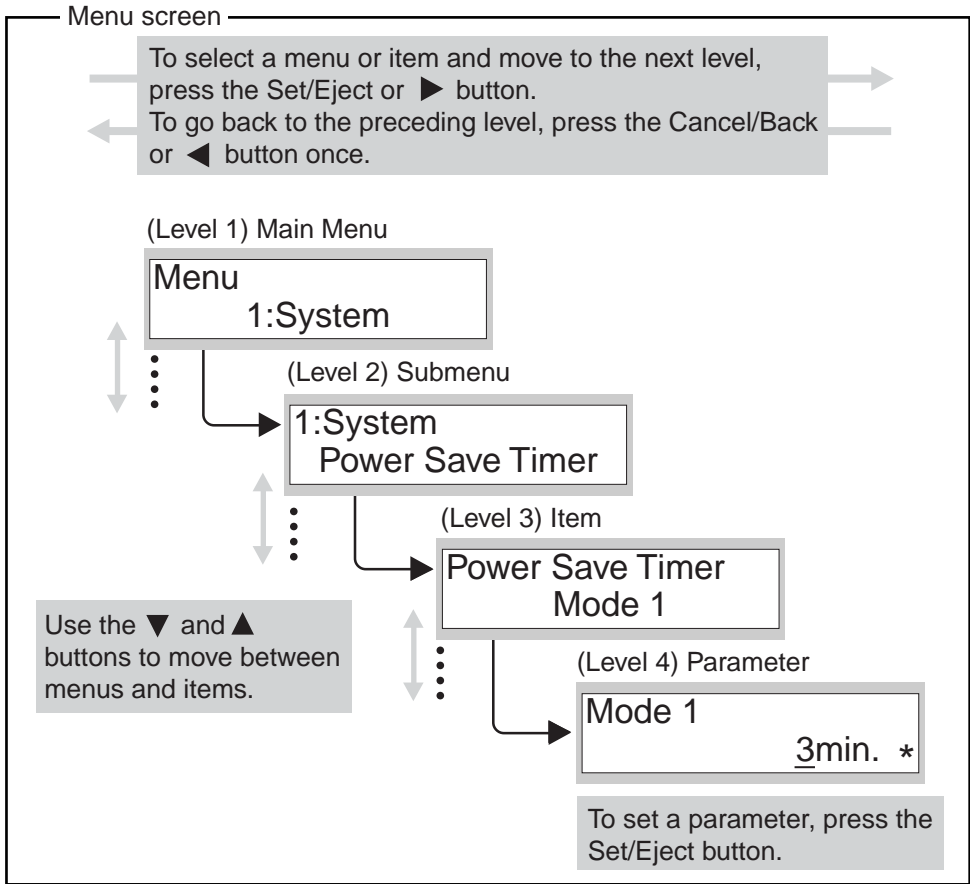
To configure the printer, press the buttons described below to display and change the level of individual menus.

See

For the general operational procedure, refer to "5.2.3 Example Operation".

Print screen (the printer is ready to print)

↑ ↓ Press the Menu button to change screens.
LOOK
 The Menu button does not change the screen while the printer is printing or when there is an error.



LOOK

Pressing the Cancel/Back or ◀ button returns you to the preceding menu or item. Once you set a parameter with the Set/Eject button ("*" appears next to the set parameter), you cannot return to the original settings even if you press the Cancel/Back or ◀ button.

Note

Some menus only have three levels. (They do not contain items.)

5.2.2 What to Do if You Make a Mistake

Perform the appropriate operation below if you accidentally push a wrong button while using the control panel.

- **You accidentally pressed the Set/Eject button, but you want to return to the preceding screen.**

Press the Cancel/Back or ◀ button.

- **You accidentally pressed the ▼ button, but you want to return to the preceding screen.**

Press the ▲ button.

- **You made a mistake and cannot display the preceding screen.**

Press the Menu button and remake the settings.

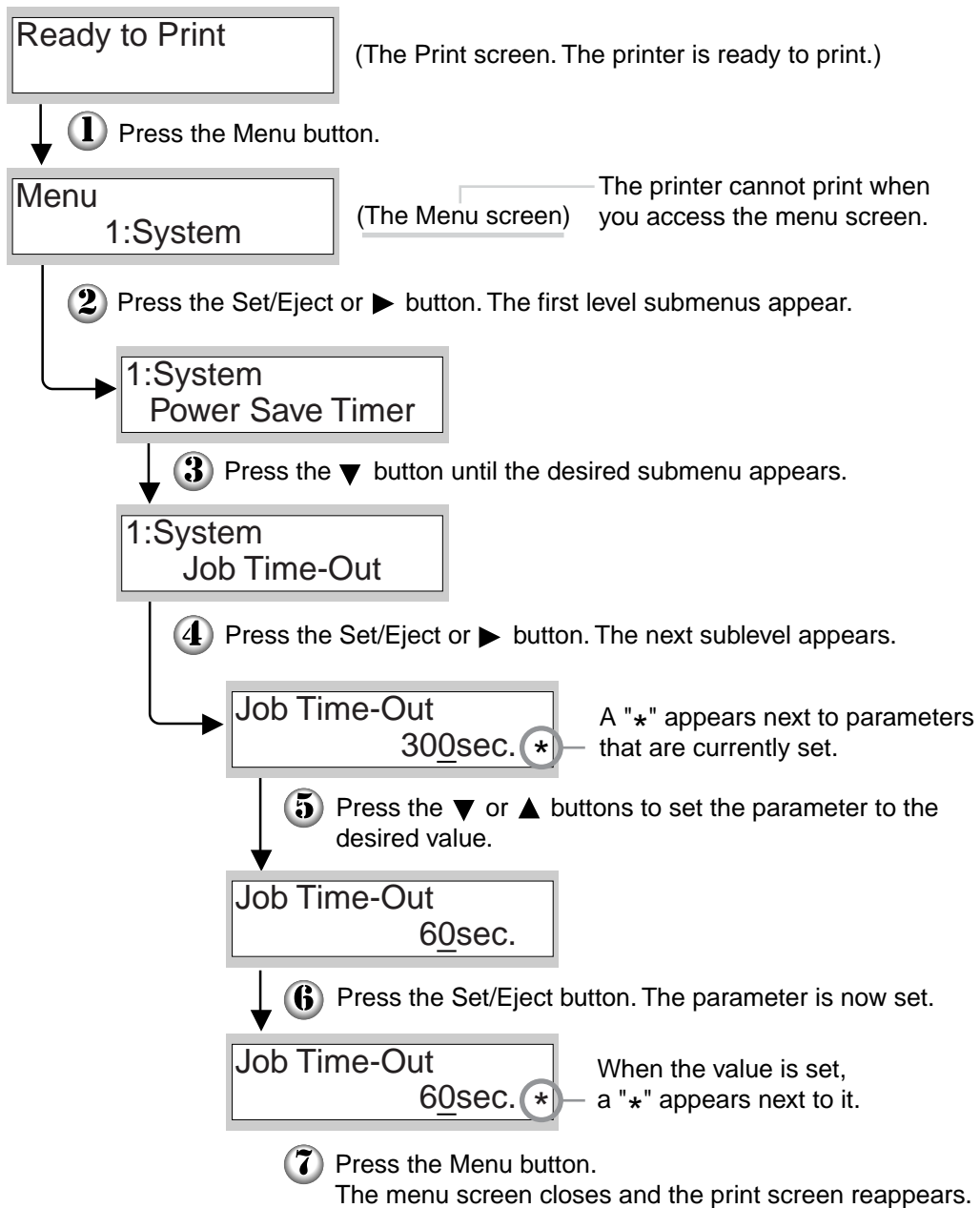
- **You accidentally pressed the Set/Eject button and set the wrong parameter.**

When the parameter is set, "*" appears next to it.

When "*" appears next to a parameter, pressing the Cancel/Back or ◀ button does not return to the preceding screen. Remake that particular setting.

5.2.3 Example Operation

To illustrate operation, this section describes the necessary procedure to set "Job Time-Out" to "60 sec." on the "1:System" menu.



5.3

List of Menu Items

The section describes the various modifiable items of each main menu.

LOOK

It is possible to set some items of the menu screens from your computer when you print. If the computer settings differ from those on the printer, the computer settings take precedence.

Note

Default refers to the factory settings of the printer.

5.3.1 System

Used to configure the power saver modes, job log settings, and basic printer operation.

••• Power Save Timer

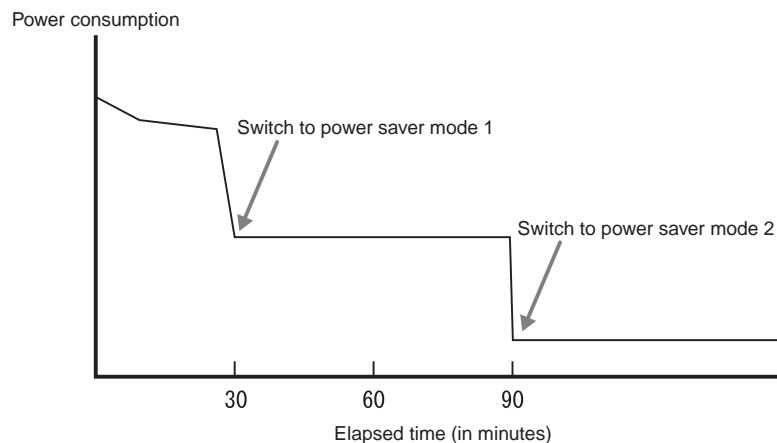
The power saver mode is a function that reduces the electricity consumption of the printer when it is idle. The power saver mode has two modes. Power saver mode 1 partially reduces the power consumption of certain parts of the printer. Power saver mode 2 reduces consumption even more by turning off specific parts of the printer completely.

When the printer is in power saver mode 1, "Ready/Standby" appears on the display. When in this state, the printer takes slightly more time than usual to start printing when it receives data.

When the printer is in power saver mode 2, the Power saver button is lit. When the printer receives data while in this state, it takes more time than in power saver mode 1 for the printer to begin printing.

The following offers an example of the possible delays before the printer goes into each power saver mode.

Example: "Power Save Timer Mode 1" is set to 30 minutes. "Power Save Timer Mode 2" is set to 60 minutes.



Note

If the "Power Saver Mode" is set to "Disabled", the printer does not go into that power saver mode.

Note

The table below describes the situations when the printer is released from the power saver modes. By default, "Power Saver Mode 2" is "Disabled". The printer does not switch to power saver mode 2 unless you set it to do so.

When an optional network expansion card is installed, the printer will not switch to power saver mode 2.

Release from power saver mode 1	Release from power saver mode 2 (When the optional network expansion card is not installed)
<ul style="list-style-type: none"> • When receiving print data. • When printing a report or list with "4: Report/List". • When the menu screen is quit 	<ul style="list-style-type: none"> • When pressing the Power saver button on the control panel. • When receiving print data via the network. • When accessing the printer via the network. <ul style="list-style-type: none"> • When accessing the printer via the network utility. • When searching for the printer with Internet Services. • When accessing the printer with Simple Status Notification. • When the computer accesses the printer via the network.

- **Mode 1 (default: 3 minutes)**

Set a time between 1 and 120 minutes. The printer automatically goes into power saver mode 1 when it is idle for the duration set here.

- **Mode 2 (default: 5 minutes)**

Set a time between 5 and 120 minutes. The printer automatically goes into power saver mode 2 after being in power saver mode 1 for the duration set here.

LOOK

"Mode 2" is not displayed when an optional network expansion card is installed.

••• Power Saver

Set this for each mode to determine if the printer goes into power saver mode. The printer does not go into power saver mode when it is "Disabled".

- Mode 1 (default: Enabled)
- Mode 2 (default: Disabled)

LOOK

"Mode 2" is not displayed when an optional network expansion card is installed.

••• Error Alarm

This allows you to set if the printer sounds an alarm or not when an error occurs.

- No
"No" means that the printer does not sound an alarm when an error occurs.
- Yes (default)
"Yes" means that the printer sounds an alarm when an error occurs.

Note

It is not possible to adjust the volume of the alarm.

••• Job Time-Out

The job timeout function causes the printer to stop processing print data when it takes more than a certain set time.

When a job timeout occurs, the printer only prints the data it received up to the timeout.

Note

When printing from Windows, if the job timeout settings differ from the printer driver settings, the printer driver settings take priority. The printer driver is set to Off as the default setting. Also, when using the direct print function to print a PDF file, job timeout processing does not occur.

- 5 to 300 seconds (default: 300 seconds)
Set the job timeout between 5 and 300 seconds.
- Off
Deactivates the job timeout function.

••• Panel Language

Select either English French Italian German or spanish. The panel and internal printouts will be in the chosen language.

••• Auto Log Print

Set this to print logs automatically.

LOOK

This item cannot be set during printing.

Note

You can also print the logs using "4:Reports/List" menu.

- No (default)
The printer does not print logs automatically.
- Yes
The printer automatically prints a log after 22 print jobs.

••• ID Print

Use this to print the user ID in a particular location.

- Off (default)
- Top Left
- Top Right
- Bottom Left
- Bottom Right

••• Text Print

Set this for the printer to print data other than the supported emulation data as text.

Note

Text data is printed on A4 paper. Set the A4 paper lengthwise into the paper tray.

- Yes
The data is printed as text.
- No (default)
Data is not printed as text.

••• Autocontinue

Select the appropriate action when requested paper size is not available in the printer. The selections are:

- No
- Fit to nearest
- Fit to larger
- Select nearest
- Select larger

5.3.2 Maintenance

Use this to initialize the NV memory or adjust plain paper quality settings. You can also make security settings to restrict access to certain menus.

••• Init NVM

Initialize the memory card's non-volatile memory.

The non-volatile memory stores configuration data, even when the printer is off.

LOOK

This item cannot be set during printing.

• Yes

Initialize the memory card's non-volatile memory. Initializing the NV memory restores all the items of the control panel menus to their defaults.

LOOK

You must restart the printer for this setting to take effect. After configuring items, be sure to restart the printer.

• No

Does not initialize the NV memory and returns to the menu.

••• Security

When necessary, you can set a password to limit access to menus. This helps prevent items from being changed accidentally.

• Panel Lock (default: No)

Select "Yes" to set a password.

• Change Password

Set a four-digit password.

By default the password is "0000".

Note

If you forget the password, select "Yes" in "Init NVM" in "2:Maintenance", and then press the ▲ and ▼ and Set/Eject buttons simultaneously. This resets the password to the default.

••• F/W Download

This allows the printer to either accept or reject new firmware.

●●● BTR Current adjust

The T8024 printer has good preset Transfer Roller current values for use with an average sample of each separate media type. There is a possibility that these values are not suitable for some individual examples of a media type. In this case, users can adjust an individual BTR current value for the relevant media type in order to get better print quality. The following is a guide.

If the BTR current value is not large enough the following print quality problems might occur:

- Random patches of bad colour density particularly seen on heavy graphics. These are most likely to be seen on side-2 of a duplex print out. These problems are caused by lack of the BTR current. The current value should be increased.

If the BTR Current value is too high the following print problems may be seen:

- White spots on the whole image
The current value should be decreased.

Note

If the adjusted value is too big or small, other print quality problems might occur so care is needed when adjustments are being made.

Adjustments of the values and retesting should only be done in steps of one or two as this is normally a sufficient adjustment. If it is not possible to get a good image on a particular examples of a supported media type then please contact Tally or your dealer for assistance.

●●● AutoRegiCorrect

When this setting is ON: The printer automatically adjusts the color registration whenever the Drum is replaced.

OFF: This is the recommended setting. The printer does not adjust the color registration automatically. To allow the best registration it is recommended that users should adjust the color registration themselves by use of the ColoRegiCorrec chart following.

●●● ColorRegiCorrect

Use this to print the color registration adjustment chart, having ensured that AutoRegiCorrect is set to off. After setting up or moving the printer, print the Color Registration Correction Chart and adjust the color registration to ensure that colors are correctly aligned when printed.

Note

The Color Registration Correction Chart is printed on A4 paper. Set the A4 paper lengthwise into the paper tray.

See

For details about this operation, refer to "1.1 Adjusting Color Registration".

5.3.3 Parallel

Use this to configure the parallel interface.

●●● ECP

Use this to configure the ECP communication mode of the parallel interface.

- Enabled (default)
The printer receives data in ECP mode.
- Disabled
The printer does not receive data in ECP mode.

5.3.4 Report/List

Use this to print the various reports and lists.

Note

Reports and lists are printed on A4 paper. Set the A4 paper lengthwise into the paper tray.

●●● Printer Settings

This is a list of the hardware installed and detailed configuration.

See

For an example of the Printer Settings, refer to "8.4.1 Confirming Printer Configuration and Network Settings".

●●● Panel Settings

This is a detailed list of all the settings in the control panel menus.

●●● PCL6 Fonts List

This is a list of the available PCL6 data fonts.

●●● Log Print

This is a detailed list of the processed print jobs (maximum 22). Use this list to confirm that jobs were printed correctly.

See

For an example of the Job History Report, refer to "8.4.2 Checking the Print Log".

5.3.5 Network

Use this to make network settings. Some network settings are only displayed when an optional network expansion card is installed.

LOOK

- It is not possible to set items in this menu while printing.
- You must restart the printer for this setting to take effect. After configuring items, be sure to restart the printer.

••• Ethernet

Use this to set Ethernet communication speed and mode.

- Auto (default)
10Base-T Half, 10Base-T Full, 100Base-TX Half, or 100Base-TX Full is selected automatically.
- 10Base/Half
- 10Base/Full
- 100Base/Half
- 100Base/Full

••• TCP/IP

Use this to make TCP/IP settings. This menu contains the following:

- IP Address Setup
Select the how to obtain an IP address. Parameters are as follows:
DHCP (default)
The IP address is obtained from a DHCP server on the network.
Panel
Use this to set the IP address from the control panel.

- IP Address

Use this to set the IP address.

aaa.bbb.ccc.ddd

Set aaa, bbb, ccc, and ddd between 0 and 255.

You cannot use the following:

224-255.xxx.xxx

127.xxx.xxx

LOOK

- The IP address cannot be set when DHCP is set in the "IP Address Setup". To set, set the "IP Address Setup" to "Panel".
- IP addresses are managed throughout the system as a whole. Specifying the wrong IP address can affect the entire network. Before setting an IP address, consult your system administrator.

- Subnet Mask

Use this to set the subnet mask address.

aaa.bbb.ccc.ddd

Use 0, 128, 192, 224, 240, 248, 252, 254, or 255 for aaa, bbb, ccc, and ddd.

- Gateway Address

Use this to set the gateway address.

aaa.bbb.ccc.ddd

Set aaa, bbb, ccc, and ddd between 0 and 255.

You cannot use the following:

224-255.xxx.xxx

127.xxx.xxx

••• IPX Frame Type

Set a frame type when you use the printer in an IPX/SPX (NetWare) environment.

LOOK

This menu is only appears when an optional network expansion card is installed.

- Auto (default)

Sets the frame type automatically.

- **802.3**
Set this to use IEEE 802.3 frame type.
- **802.2**
Set this to use IEEE 802.3/802.2 frame types.
- **SNAP**
Set this to use IEEE 802.3/802.2/SNAP frame types.
- **Ethernet-II**
Set this to use Ethernet-II frame type.

☰ Protocol

Set "Enabled" or "Disabled" for each item activate or deactivate them.

Note

The items below marked with a "*" are only displayed when an optional network expansion card is installed.

- **LPD (default: Enabled)**
When using TCP/IP, set "LDP" to "Enabled" to print with LPD (LPR) or to "Disabled" if you do not want to use this feature.
- **Port9100 (default: Enabled)**
When using TCP/IP, set "Port9100" to "Enabled" to print with port 9100 (Raw Data Socket) or to "Disabled" if you do not want to use this feature.
- **IPP (default: Enabled)***
When using TCP/IP, set "IPP" to "Enabled" to print with IPP (Internet Printing Protocol) or to "Disabled" if you do not want to use this feature. Available with Windows 2000, Windows XP, and Windows Me.
- **SMB TCP/IP (default: Enabled)***
When using SMB (Windows network) with TCP/IP as the transport protocol, set "SMB TCP/IP" to "Enabled" to print using SMB or to "Disabled" if you do not want to use this feature.
- **SMB NetBEUI (default: Enabled)***
When using SMB (Windows network) with NetBEUI as the transport protocol, set "SMB NetBEUI" to "Enabled" to print using SMB or to "Disabled" if you do not want to use this feature.
- **Ethertalk (default: Enabled)***
Set "Ethertalk" to "Enabled" to print in an Apple system with the Postscript option installed in the printer or to "Disabled" if you do not want to use this feature.
- **NetWare (default: Enabled)***
Set "NetWare" to "Enabled" to print in a NetWare system or to "Disabled" if you do not want to use this feature.
- **FTP (default: Disabled)**
When using TCP/IP, set "FTP" to "Enabled" to print with FTP (File Transfer Protocol) or to "Disabled" if you do not want to use this feature.

- **SNMP UDP/IP (default: Enabled)**
When using TCP/IP, set "SNMP UPD/IP" to "Enabled" to use the SNMP Agent function or to "Disabled" if you do not want to use this feature.
- **SNMP IPX (default: Enabled)***
In a NetWare environment, set "SNMP IPX" to "Enabled" to use the SNMP Agent function or to "Disabled" if you do not want to use this feature.
- **Internet Services (default: Enabled)**
Set to "Enabled" to use Internet Services or to "Disabled" if you do not want to use this feature.

••• IP Filter

Use this to block the reception of data from certain locations.

To block a particular IP address, specify the IP address in "Filter X Address" (X is a number between 1 and 5) and the subnet mask in "Filter X Mask" as numbers between 0 and 255. For the set address, select "Off" (default), "Reject", or "Accept" from "Filter X Mode".

You can filter up to 5 addresses. "Filter 1" takes priority over the other filters. Therefore, when setting filters for a number of addresses, assign the addresses in ascending ranges from "Filter 1" to "Filter 5".



- You can also perform IP filter settings with Internet Services and Network Utilities. For a detailed example of these settings, refer to the Network User Guide on the provided CD-ROM.
- For more information about Internet Services, refer to "8.5 Confirming Printer Status from Your Computer".

- Filter 1
- Filter 2
- Filter 3
- Filter 4
- Filter 5

••• Init NVM

This initializes the non-volatile memory of the network card.

The non-volatile memory stores configuration data, even when the printer is off.

LOOK

This item cannot be set during printing.

- Yes

Initialize the memory card's non-volatile memory. Initializing the NV memory restores the items of the "5:Network" menu to their defaults.

LOOK

You must restart the printer for this setting to take effect. After configuring items, be sure to restart the printer.

- No

Does not initialize the NV memory and returns to the menu.

Chapter

6

Troubleshooting

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6.1 Type of Problems

When your printer suffers from a problem, refer to the categories below to determine the cause of the problem and the action needed to rectify it.

Fix the problem by following the corresponding procedure. Refer to this chapter even if you think you cannot fix a problem when one occurs. There are several types of potential problem that you can rectify.

6.1.1 Problem List

No Power

- No power 132
- The printer frequently turns off 132

Indicators are Illuminated, Blinking or Off

- The Error indicator is on 133
- The Error indicator is blinking 133
- The Ready indicator is off 133
- The Ready indicator does not blink or light when you try to print 133
- The Ready indicator is on or blinking, but paper is not output 135

Cannot Print in Windows

- The printer does not print 136
- Cannot print with TCP/IP 137
- Cannot print with the TCP/IP Direct Print Utility 137
- Cannot print in an SMB environment .. 137
- Cannot print in a NetWare environment 138
- An error message appears on the computer screen 138

Blank or Completely Black Pages are Output

- Nothing is printed 139
- Output sheets are completely black 139

Faded or Dirty Printouts, White Areas (Drop-outs), Creases, Blurs

- Faded printouts 140
- Dirty spots are printed 140
- Vertical black lines 141
- Recurring smudges 141

- Ink smears when rubbed 141
- Hair-like marks appear around black halftone printing 141
- There are ghost images of characters and lines 142
- Shadows appear around areas of dense black printing 142
- White spots appear in areas of dense black printing 142
- Partial blanks 143
- Blotted printing 143
- Blurred printing 143
- Vertical blanks 143
- Creased paper 144
- Slanted printing/ Incorrectly positioned printing 144

Unsatisfactory Printing

- Unsatisfactory transparencies 145
- Unsatisfactory envelopes 145
- Unsatisfactory printing 145

Paper Does not Feed Properly

- Paper does not feed/Paper jams/ Several sheets feed at once/Paper does not feed straight 146

Network Problems

- The IP address changes when turning on the printer 148
- Cannot connect to Internet Services .. 148
- Internet Services do not work properly 149

Other Problems

- Cannot print in color 150
- Paper does not feed from the specified tray
..... 150
- Printing is slow..... 150
- Unusual noises are coming from the printer
..... 150
- There is condensation in the printer 151
- The printer does not switch to power saver
mode 2..... 151

If a problem occurs that is not included in these categories or if you cannot rectify the problem using the prescribed procedures, switch off the printer, disconnect the power cord from the AC outlet, and contact your Tally service or dealer for assistance.


⚠ WARNING

Do not try to alter the machine configuration, or modify any parts. An unauthorized modification can cause smoke or fire.

⚠ CAUTION

Be sure to switch off and unplug the machine before accessing the interior of the machine for cleaning, maintenance, or fault clearance. Access to a live machine's interior can cause electric shocks.

6.2 No Power





Symptom	Possible Cause	Action
No power	Is the printer off?	Press the "I" on the power switch to switch on the printer.  "3.1.1 Switching On the Power"
	Is the power cord loose or disconnected?	Switch off the printer and connect the power cord properly. Switch on the printer again.
	Is the printer connected to a properly rated 220 to 240 V outlet?	Connect the printer to a 220 to 240 AC outlet. Do not connect any other equipment to the outlet. Do not connect the printer to an auxiliary power outlet on the rear of a computer.
The printer frequently turns off	The printer is defective.	Switch off the printer immediately, disconnect the power cord from the outlet, and contact your service technician or dealer.
	Is the power cord loose or disconnected?	Switch off the printer and connect the power cord properly. Switch on the printer again.



6.3




The Printer Does not Print

6.3.1 Indicators are Illuminated, Blinking or Off

Symptom	Possible Cause	Action
The Error indicator is on	Is there an error message on the control panel display?	Check the message and rectify the error accordingly.  "6.7 When an Error Message Appears on the Control Panel"
The Error indicator is blinking	A problem that the user cannot rectify has occurred.	Note the error code on the display, switch off the printer immediately, disconnect the power cord from the outlet, and contact your Tally service or dealer.
The Ready indicator is off	Is the control panel display on the menu screen?	Press the Menu button on the control panel to go back to the print screen.  "5.1.3 Buttons"
The Ready indicator does not blink or light when you try to print	Is the parallel, USB, or Ethernet interface cable loose or disconnected?	Switch off the printer and check the interface cable. If necessary, reconnect.  Setup Guide
	Is the optional network expansion card loose or disconnected?	Switch off the printer and reinstall the network expansion card into the printer.  Setup Guide

Condition	Verification	Solution
(Continued from previous page) The Ready indicator does not blink or light when you try to print	Does the parallel, USB, or Ethernet interface cable meet the required printer specifications?	Use only the recommended parallel interface cables for the printer. 10Base-T and 100Base-TX Ethernet interface cables are compatible with the printer. Use twisted pair cables suitable for network connections. A Category 5 100Base-TX is required.
	Is the computer configured correctly?	Check the following settings on your computer and reconfigure any that are not correct. <ul style="list-style-type: none"> • Make sure that the appropriate printer driver for your operating system is installed. • Make sure that the port is set correctly in the printer driver. <div style="border: 1px solid black; padding: 2px; display: inline-block;">See</div> "Chapter 2 Installing the Printer Driver"
	Is the printer IP address correct? (When using TCP/IP.)	Consult your system administrator to obtain a valid IP address. Use the Printer Settings list to confirm the IP address. <div style="border: 1px solid black; padding: 2px; display: inline-block;">See</div> <ul style="list-style-type: none"> • "8.4.1 Confirming Printer Configuration and Network Settings". • "1.2.3 Setting the IP Address".





Condition	Verification	Solution
(Continued from previous page) The Ready indicator does not blink or light when you try to print	Is the printer properly configured for use through a network? (When on a network.)	Print the Printer Settings list to check the network settings. Correct any inappropriate settings.  <ul style="list-style-type: none"> • "8.4.1 Confirming Printer Configuration and Network Settings" • "1.2 Configuring the Printer" • Network User Guide
	The network has a problem. (When on a network).	Check that the printer is on and execute the print command from the computer one more time. If the problem persists, consult your system administrator.
	Is the printer off?	Press the "I" on the power switch to switch on the printer.  "3.1.1 Switching On the Power"
The Ready indicator is on or blinking, but paper is not output	Data may still remain inside the printer.	Select to abort the print job or forcibly output the remaining data.  <ul style="list-style-type: none"> • "3.4.2 Canceling Printing at the Control Panel" • "6.9 Forcing the Printer to Print Remaining Data (When Printing is Halted)"



6.3.2 Cannot Print in Windows

Symptom	Verification	Action
The printer does not print	Does "Pause Printing" appear in the printer window?	When printing stops because of an error, the printer sometimes switches to the Pause Printing state. Follow the procedure below to release the printer from the Pause Printing state. 1) On the Start menu, point to Settings and click Printers. 2) Double-click the appropriate printer. 3) In the printer window, click the Printer menu. 4) On the Printer menu, if Pause Printing is selected, click it to release.
	Is the printer off?	Press the "I" on the power switch to switch on the printer. See "3.1.1 Switching On the Power"
	Is the parallel, USB, or Ethernet interface cable loose or disconnected?	Switch off the printer and check the interface cable. If necessary, reconnect. See Setup Guide
	Is the optional network expansion card loose or disconnected?	Switch off the printer and reinstall the network expansion card into the printer. See Setup Guide



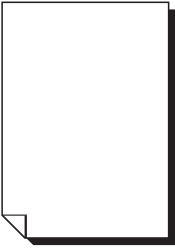



Condition	Verification	Solution
Cannot print with TCP/IP	Is the printer IP address set correctly? (When using TCP/IP.)	<p>The IP address might be different. Ask your system administrator for the correct settings.</p> <p>Use the Printer Settings list to confirm the current IP address.</p> <p> See</p> <ul style="list-style-type: none"> • "8.4.1 Confirming Printer Configuration and Network Settings". • "1.2.3 Setting the IP Address".
	Is the IP Filter set?	Consult your system administrator to whether the IP Filter is set or not.
Cannot print with the TCP/IP Direct Print Utility	Is the spool option deselected on the Details tab of the printer icon's Properties dialog box, so that print data is sent directly to the printer? (Windows 95)	Enable print job spooling in the Details tab.
	Does Printer Error appear in the status column of the printer window?	<p>If printing is not possible using the TCP/IP Direct Print Utility, refer to the Network User Guide and follow the prescribed procedure.</p> <p> See</p> <p>Network User Guide</p>
Cannot print in an SMB environment (When a network expansion card is installed)	Does the computer display a message indicating that there is insufficient space on the server?	<p>This message appears when there are several simultaneous print requests or when the printer is printing a job sent with another protocol when you make the request.</p> <p>Before sending a print job, open the printer window and check that the queue is empty.</p>





Condition	Verification	Solution
(Continued from previous page) Cannot print in an SMB environment (When a network expansion card is installed)	Does the message Write Error appear on the computer screen?	This message appears when the maximum number of permissible connections on the Windows network is exceeded. Before sending a print job, open the printer window and check that the queue is empty.
Cannot print in a NetWare environment (When a network expansion card installed)	Do hubs or other network equipment support automatic frame type setting?	Check that the data link indicator of the printer connection port on the network equipment is on. If the indicator is off, set the same frame type on the control panel as the one used by the NetWare file server.  "5.3 List of Menu Items"
	Is the NetWare file server or print server running? (In remote printer mode.)	Start the NetWare file server or print server. (In remote printer mode.)
	Is the NetWare file server correctly configured for a NetWare environment?	Use Network Utilities and check the network configuration.  Network User Guide
An error message appears on the computer screen	A printer error has occurred.	Check the message and rectify the error accordingly.

6.4 Print Quality is Not Good

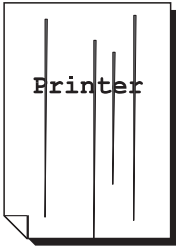
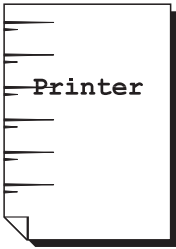

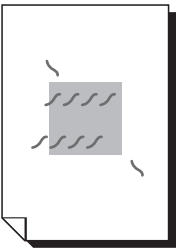
6.4.1 Blank or Completely Black Pages are Output

Symptom	Possible Cause	Action
Nothing is printed 	Two or more sheets may be feeding at once.	Remove the paper stack from the tray, fan it, and reinsert it.
	The drum cartridge is old or damaged.	Replace the drum cartridge.  "8.2.2 Replacing the Drum Cartridge"
	The power supply is defective.	Contact your service technician or dealer.
Output sheets are completely black 	The drum cartridge is old or damaged.	Replace the drum cartridge.  "8.2.2 Replacing the Drum Cartridge"
	The power supply is defective.	Contact your technician or dealer.


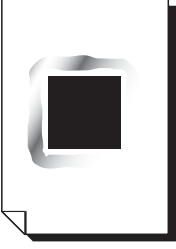
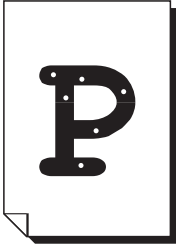
6.4.2 Faded or Dirty Printouts, White Areas (Drop-outs), Creases, Blurs







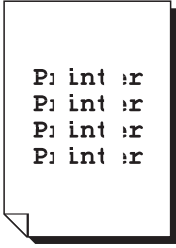


Symptom	Possible Cause	Action
Faded printouts 	Is the media suitable?	Replace the media with a size and type of media suitable for use with this printer. Set the printer driver to the type of paper you are using. See "4.1 Suitable and Unsuitable Paper Types"
	Is the paper damp?	Replace the paper. See "4.2 Loading Paper"
	The drum cartridge is old or damaged.	Replace the drum cartridge. See "8.2.2 Replacing the Drum Cartridge"
	Is the EconoMode selected on the printer driver?	Change the printer driver settings on the Graphics tab (in Windows). See Help
	The power supply is defective.	Contact your technician or dealer.
Dirty spots are printed 	Is the media suitable? Are you using preprinted or inkjet paper?	Replace the media with a size and type of media suitable for use with this printer. Set the printer driver to the type of paper you are using. See "4.1 Suitable and Unsuitable Paper Types"
	The drum cartridge is old or damaged.	Replace the drum cartridge. See "8.2.2 Replacing the Drum Cartridge"



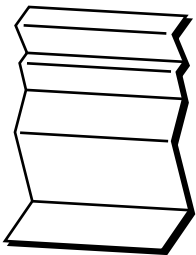

Symptom	Possible Cause	Action
Vertical black lines 	The drum cartridge or transfer roller is old or damaged.	Check the drum cartridge and transfer roller and replace them as necessary. See <ul style="list-style-type: none"> "8.2.2 Replacing the Drum Cartridge" "8.3.2 Replacing the Transfer Roller"
Recurring smudges 	Dirt in the paper path. The drum cartridge or transfer roller is old or damaged.	Print several blank sheets. Check the drum cartridge and transfer roller and replace them as necessary. See <ul style="list-style-type: none"> "8.2.2 Replacing the Drum Cartridge" "8.3.2 Replacing the Transfer Roller"
Ink smears when rubbed 	Is the paper damp? Is the media suitable?	Replace the paper. See "4.2 Loading Paper" Replace the media with a size and type of media suitable for use with this printer. Set the printer driver to the type of paper you are using. See "4.1 Suitable and Unsuitable Paper Types"
Hair-like marks appear around black halftone printing 	The paper was left unwrapped for a long time (especially in a dry environment).	Replace the paper. See "4.2 Loading Paper"









Symptom	Possible Cause	Action
<p>There are ghost images of characters and lines</p> 	<p>Are you printing in a high temperature, high humidity or low temperature, low humidity environment?</p>	<p>Use at room temperature. Print after the room has warmed up, such as on winter mornings.</p>
<p>Shadows appear around areas of dense black printing</p> 	<p>Is the media suitable?</p>	<p>Replace the media with a size and type of media suitable for use with this printer. Set the printer driver to the type of paper you are using.</p> <p>See "4.1 Suitable and Unsuitable Paper Types"</p>
	<p>The transfer roller is old or damaged.</p>	<p>Replace the transfer roller.</p> <p>See "8.3.2 Replacing the Transfer Roller"</p>
<p>White spots appear in areas of dense black printing</p> 	<p>Is the media suitable? Is the media folded or creased?</p>	<p>Replace the media with a size and type of media suitable for use with this printer. Set the printer driver to the type of paper you are using.</p> <p>See "4.1 Suitable and Unsuitable Paper Types"</p>
	<p>The drum cartridge is old or damaged.</p>	<p>Replace the drum cartridge.</p> <p>See "8.2.2 Replacing the Drum Cartridge"</p>
	<p>Is the paper damp? Is it too dry?</p>	<p>Use at room temperature. Use the paper immediately after opening the package.</p>

Symptom	Possible Cause	Action
Partial blanks 	Is the color registration correctly adjusted?	Adjust the color registration.  "1.1 Adjusting Color Registration"
Blotted printing Blurred printing 	Is the paper damp? Is it too dry?	Use at room temperature. Use the paper immediately after opening the package.
	Is the media suitable?	Replace the media with a size and type of media suitable for use with this printer. Set the printer driver to the type of paper you are using.  "4.1 Suitable and Unsuitable Paper Types"
	Is the transfer roller properly installed in the printer?	Make sure that the transfer roller is properly installed.  "8.3.2 Replacing the Transfer Roller"
Vertical blanks 	Is the drum cartridge properly installed in the printer?	Make sure that the drum cartridge is properly installed.  "8.2.2 Replacing the Drum Cartridge"
	The drum cartridge or transfer roller is old or damaged.	Check the drum cartridge and transfer roller and replace them as necessary.  <ul style="list-style-type: none"> "8.2.2 Replacing the Drum Cartridge" "8.3.2 Replacing the Transfer Roller"



Symptom	Possible Cause	Action
Creased paper 	Is the paper damp?	Replace the paper. See "4.2 Loading Paper"
	Is the media suitable? Are you using warped paper?	Replace the media with a size and type of media suitable for use with this printer. Set the printer driver to the type of paper you are using. See "4.1 Suitable and Unsuitable Paper Types"
	Is the paper tray properly inserted into the printer?	Push the paper tray completely back into the printer.
	Is there paper or a foreign object jammed in the printer?	Switch off the printer and remove the jammed paper or foreign object. When you cannot remove the obstruction, switch off the printer and contact your technician or dealer. Do not attempt to disassemble the printer.
	Is the transfer roller properly installed in the printer?	Make sure that the transfer roller is properly installed. See "8.3.2 Replacing the Transfer Roller"
Slanted printing/ Incorrectly positioned printing 	Are the paper guides of the paper tray set correctly?	In the paper tray, set the side and end guides to their correct positions. See <ul style="list-style-type: none"> "4.2.1 Loading Paper in the Paper Tray"
	Is the paper guide in the multi purpose tray set at the correct mark?	Set the paper guide in the multi purpose tray at the correct mark. See "4.2.2 Loading Paper in the Multi Purpose Tray"
	Did you correctly install the A5 spacer when loading A5 paper into the paper tray?	Make sure that the A5 spacer is properly installed next to the end guide in the paper tray. See "4.2.1 Loading Paper in the Paper Tray"







6.4.3 Unsatisfactory Printing




Symptom	Possible Cause	Action
Unsatisfactory transparencies	Is the transparency suitable?	Use transparencies suitable for use with this printer
	Is the media properly loaded into the multi purpose tray?	Make sure that the transparencies are properly loaded into the multi purpose tray.  "3.6.2 Printing on Transparencies"
	Is the printer driver configured to print transparencies?	Set the printer driver for transparencies on the Paper/Output tab (in Windows).  "3.6.2 Printing on Transparencies"
Unsatisfactory envelopes	Is the envelope suitable?	Use Com-10, Monarch, C5, DL envelopes. Use envelopes recommended for use with the printer.  "4.1 Suitable and Unsuitable Paper Types"
	Is the media properly loaded into the multi purpose tray?	Make sure the envelopes are properly loaded into the multi purpose tray.  "3.6.1 Printing on Envelopes"
	Is the printer driver configured to print Envelopes?	Set the printer driver for Envelopes in the Paper/Output tab (in Windows).  "3.6.1 Printing on Envelopes"
Unsatisfactory printing	Is EconoMode or a low resolution option selected on the printer driver?	Change the printer driver settings on the Graphics tab (in Windows).  Help

6.5

Paper Does not Feed Properly



Symptom	Possible Cause	Action
Paper does not feed/Paper jams/ Several sheets feed at once/Paper does not feed straight	Is the media properly loaded? If using special paper, is the media properly loaded into the multi purpose tray?	Make sure that the media is properly loaded. When using media such as transparencies, label sheets, or envelopes, fan the stack before loading so that there is air between the sheets.  "4.2 Loading Paper"
	Is the paper damp?	Replace the paper.  "4.2 Loading Paper"
	Is the media suitable?	Replace the media with a size and type of media suitable for use with this printer.  "4.1 Suitable and Unsuitable Paper Types"
	Is the paper tray properly inserted into the printer?	Push the paper tray completely back into the printer. Remove the jammed paper.
	Is there paper jammed in the printer?	The problem can sometimes be adhesive tape or glue adhering to the rollers. Inspect the insides of the printer often and completely remove any foreign matter.  "Chapter 7 Clearing Paper Jams"
	Is the printer level?	Reposition the printer on a flat, stable surface.  "Safety Notes"
	Is the printer driver paper feed method correctly set?	Make sure that the printer driver paper feed method is correctly set. Also, when an optional tray module is present, you must reconfigure the printer to use the module as tray 2 or 3.  Help






Condition	Verification	Solution
(Continued from previous page) Paper does not feed/Paper jams/ Several sheets feed at once/Paper does not feed straight	Are the paper guides of the paper tray set correctly?	In the paper tray, set the side and end guides in the correct positions.  <ul style="list-style-type: none"> • "4.2.1 Loading Paper in the Paper Tray"
	Is the paper guide in the multi purpose tray set at the correct mark?	Set the paper guide in the multi purpose tray at the correct mark.  "4.2.2 Loading Paper in the Multi Purpose Tray"
	Did you correctly install the A5 spacer when loading A5 paper into the paper tray?	Make sure that the A5 spacer is properly installed next to the end guide in the paper tray.  "4.2.1 Loading Paper in the Paper Tray"


6.6

Other Problems





6.6.1 Network Problems




Condition	Verification	Solution
The IP address changes when turning on the printer	Is the printer set to acquire an IP address through a DHCP server?	<p>On the control panel, select "5:Network", then "IP Address Setup" and select "Panel" to set a permanent IP address for the printer.</p> <p></p> <ul style="list-style-type: none"> • "5.3 List of Menu Items" • "1.2.3 Setting the IP Address".
Cannot connect to Internet Services	Is the printer off?	<p>Press the "I" on the power switch to switch on the printer.</p> <p></p> <p>"3.1.1 Switching On the Power"</p>
	Is the Ethernet cable loose or disconnected?	<p>Switch off the printer and check the Ethernet cable. If necessary, reconnect.</p> <p></p> <p>Setup Guide</p>
	Is the printer's Internet address correct?	<p>Confirm that the printer Internet address is correct. If the problem persists, use an IP address to connect to the printer instead.</p>
	Is the printer's IP address correct?	<p>The IP address might be different. Ask your system administrator for the correct settings.</p> <p>Use the Printer Settings list to confirm the current IP address.</p> <p></p> <ul style="list-style-type: none"> • "8.4.1 Confirming Printer Configuration and Network Settings". • "1.2.3 Setting the IP Address".
	Are you using a proxy server?	<p>Certain proxy servers block access to the printer.</p> <p>Configure your Web browser so that it does not use the proxy server or set the address you want to access so that it does not go through the proxy server.</p> <p></p> <p>Network User Guide.</p>

Symptom	Possible Cause	Action
(Continued from previous page) Cannot connect to Internet Services	Is the port number correct?	The default port number is "80". Specify the correct port number.
Internet Services do not work properly	–	When Internet Services do not operate properly, refer to the Network User Guide and follow the procedures therein.  See Network User Guide

6.6.2 Other Problems

Symptom	Possible Cause	Action
Cannot print in color	Is the printer driver set to Black/White as the output color?	Change the printer driver settings in the Paper/Output or Graphics tab (Windows).  Help
Paper does not feed from the specified tray	Are the application settings overriding the printer driver settings?	Set the paper tray in the application to the same paper tray set in the printer driver.
Printing is slow	Is the printer driver set to Color as the output color even when you are printing in monochrome?	Change the printer driver settings in the Paper/Output or Graphics tab (Windows).  Help
	Is the Power Save Mode Timer too short?	When the printer is in power saver mode, it takes longer than normal to begin printing if it receives a print request. On the control panel, set a longer Power Save Timer.  "5.3 List of Menu Items"
Unusual noises are coming from the printer	Is the printer level?	Reposition the printer on a flat, stable surface.  "Safety Notes"
	Is the paper tray properly inserted into the printer?	Push the paper tray completely back into the printer.
	Is there paper or a foreign object jammed in the printer?	Switch off the printer and remove the jammed paper or foreign object. When you cannot remove the obstruction, switch off the printer and contact your Tally or dealers. Do not attempt to disassemble the printer.



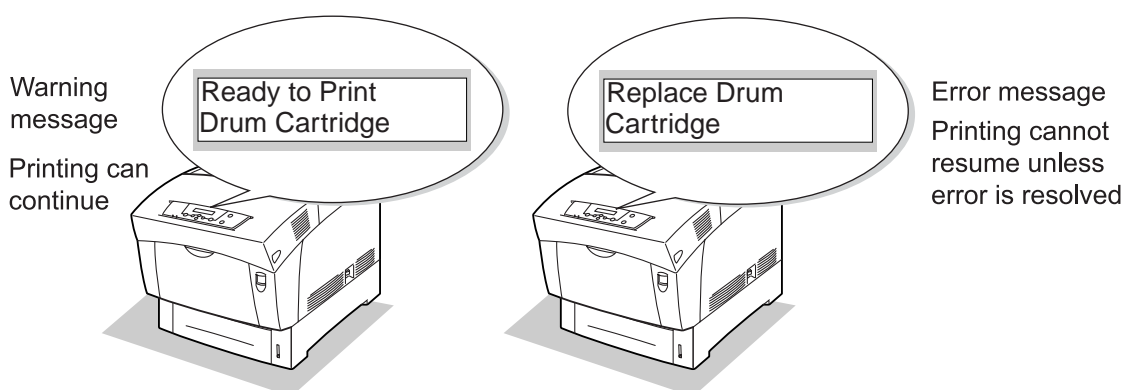
Symptom	Possible Cause	Action
There is condensation in the printer	-	<p>On the control panel, set the Power Save Mode Timer to one hour or more and leave the printer on. After leaving the printer for an hour to allow condensation to dissipate, you can use the printer normally.</p> <p> "5.3 List of Menu Items"</p>
The printer does not switch to power saver mode 2 (When an optional network expansion card is not installed)	Is "Disabled" selected from the control panel for switching to power saver mode 2?	Select "Enabled" from the control panel for switching to power saver mode 2.
	Is it set to startup the Simple Status Notification when the computer is started?	Set the time for the Simple Status Notification to access the printer longer than the time to shift to the power saver mode.

6.7 When an Error Message Appears on the Control Panel

This section describes error messages and their meanings, as well as what to do when they appear.

Error messages are warnings that alert you to precautions to take when printing, and inform you of actions that you need to take to rectify problems.

When an error message is displayed, find the corresponding message in the table below and follow the procedure herein.








Note







When the message is too long to fit on the display, the screen changes every three seconds, displaying the message in segments.





Message	Meaning and Action
_ Please Reboot Printer	The printer is not functioning normally. Action: Switch off the printer and switch it on again. When the same message reappears after taking this action, write the error code displayed, switch off the printer, and contact your Tally service or dealer.
Transp. Error Open Cover A	Transparencies were not specified as the paper type on the computer, the media in the printer is not transparencies, or transparencies were fed instead of the intended media. Action: Press button A, open the front door and remove the jammed media. After that, load the media type specified on the computer. If this message appears and the loaded media is correct, specify the paper tray of that media on the computer and reprint. See "Chapter 7 Clearing Paper Jams" LOOK Do not use transparencies framed by a white border. Refer to "4.1 Suitable and Unsuitable Paper Types" and load the recommended type of transparencies.
PDFPermissionErr Please Press Set	PDF files that are disallowed will not print. Action: Press the Set/Eject button and cancel printing.

*** indicate alphanumeric characters.







Message	Meaning and Action
PDF Error Please Press Set	An error occurred when using the direct print function to print a PDF file. Action: Press the Set/Eject button and cancel printing.
PDF Wrong Password Please Press Set	The PDF file password and the password set on the printer do not match. Action: Press the Set/Eject button and cancel printing. Reset the correct password on the control panel and reprint.
Replace Yellow Toner (Y)	The yellow toner cartridge is empty. Action: Replace the yellow toner cartridge.  "8.1.2 Replacing Toner Cartridges"
Reinsert Yellow Toner (Y)	There is no yellow toner cartridge inserted in the printer or the cartridge is improperly set. Action: Grip the levers at each end of the yellow toner cartridge with your fingers, then push down firmly to rotate the levers forward to install the cartridge.  "8.1.2 Replacing Toner Cartridges"
Need Maintenance CTD Sensor	It is time to check the density sensor. Action: Remove the transfer roller and check the cleanliness of the density sensor.  "6.10 Cleaning the Density Sensor"
Please Clean CTD Sensor	The density sensor is dirty. Action: Remove the transfer roller and clean the density sensor.  "6.10 Cleaning the Density Sensor"
Regi. Jam Open Cover A	There is paper jammed in the printer. Action: Press button A, open the front door and remove the jammed media. Make sure there is no paper jammed in the paper trays.  "Chapter 7 Clearing Paper Jams"



Message	Meaning and Action
Fuser Jam Open Cover A & B	<p>There is paper jammed in the printer.</p> <p>Action: Press button A or B, open the front door and remove the jammed media. Make sure there is no paper jammed in the paper trays.</p> <p> "7.4 Paper Jams between the Drum Cartridge and Fuser Cartridge"</p>
Duplex Jam Open Cover B	<p>There is paper jammed in the paper rotator used for two-sided printing.</p> <p>Action: Press button B, open the front door and remove the jammed media.</p> <p> "7.5 Paper Jams in the Duplexer"</p>
Feed Jam Check Tray	<p>There is paper jammed in the multi purpose tray, the paper tray, or the optional 2 tray module if installed.</p> <p>Action: Pull out the tray and remove the jammed media.</p> <p> "7.2 Paper Jams in Multi Purpose Tray" "7.3 Paper Jams in the Paper Tray" "7.6 Paper Jams in the Tray Module (1 or 2 cassettes)"</p>
Drum Cartridge ID Error	<p>The drum cartridge is defective.</p> <p>Action: Replace the drum cartridge.</p> <p> "8.2.2 Replacing the Drum Cartridge"</p>
Replace Cyan Toner (C)	<p>The cyan toner cartridge is empty.</p> <p>Action: Replace the cyan toner cartridge.</p> <p> "8.1.2 Replacing Toner Cartridges"</p>
Reinsert Cyan Toner (C)	<p>There is no cyan toner cartridge inserted in the printer or the cartridge is improperly set.</p> <p>Action: Grip the levers at each end of the cyan toner cartridge with your fingers, then push down firmly to rotate the levers forward to install the cartridge.</p> <p> "8.1.2 Replacing Toner Cartridges"</p>





Message	Meaning and Action
Sys Data Deleted Press Set	<p>All system settings stored in the NV memory were deleted.</p> <p>Action: Press the Set/Eject button to initialize the NV memory. The printer settings may be deleted when you reset the NV memory. Print the Printer Settings list and the Panel Settings list to confirm settings.</p> <p> "8.4.1 Confirming Printer Configuration and Network Settings". "5.3 List of Menu Items"</p>
No Paper in All Trays	<p>There is no paper in any of the paper trays.</p> <p>Action: Load paper into the trays.</p> <p> "4.2.1 Loading Paper in the Paper Tray"</p>
Push in All Trays	<p>One of the trays is not properly inserted.</p> <p>Action: Push the all paper trays completely back into the printer.</p>
Disk Full Please Press Set	<p>The hard disk became full during electronic sorting and data writing was halted.</p> <p>Action: Press the Set/Eject button. It deletes print jobs from the printer. Print with one of the following methods:</p> <ul style="list-style-type: none"> • Print fewer pages at a time. • Deactivate the printer driver hard disk setting. <p> "3.5 Changing the Configuration for Options"</p>
Load xxxx in ManualTray	<p>Paper size xxxx is not loaded in the multi purpose tray or is different from the size specified on the computer.</p> <p>Action: Load paper xxxx into the multi purpose tray. If the computer settings are incorrect, cancel printing. Specify the correct paper the computer and reprint.</p> <p> "4.2.2 Loading Paper in the Multi Purpose Tray" "3.4.2 Canceling Printing at the Control Panel"</p>



Message	Meaning and Action
Check Paper in ManualTray	<p>Paper is not properly loaded in the multi purpose tray or is different from that specified on the computer.</p> <p>Action: Make sure the paper is properly loaded into the multi purpose tray. If the computer settings are incorrect, cancel printing. Check the following settings on your computer, reconfigure any that are incorrect, and reprint.</p> <ul style="list-style-type: none"> • Is the correct paper tray specified? • Is the correct paper size specified? <p style="text-align: center;"></p> <p>"4.2.2 Loading Paper in the Multi Purpose Tray" and "3.4.2 Canceling Printing at the Control Panel"</p>
Replace Transfer Roller	<p>The transfer roller needs to be replaced.</p> <p>Action: Replace the transfer roller.</p> <p style="text-align: center;"></p> <p>"8.3.2 Replacing the Transfer Roller"</p>
Reinsert Transfer Roller	<p>The transfer roller is not inserted in the printer or the cartridge is set improperly.</p> <p>Action: Push the transfer roller all the way into the printer.</p> <p style="text-align: center;"></p> <p>"8.3.2 Replacing the Transfer Roller"</p>
Replace Drum Cartridge	<p>The drum cartridge needs to be replaced.</p> <p>Action: Replace the drum cartridge.</p> <p style="text-align: center;"></p> <p>"8.2.2 Replacing the Drum Cartridge"</p>
Reinsert Drum Cartridge	<p>The drum cartridge is not inserted in the printer or the cartridge is set improperly.</p> <p>Action: Push the drum cartridge all the way into the printer.</p> <p style="text-align: center;"></p> <p>"8.2.2 Replacing the Drum Cartridge"</p>
No Paper in Tray 1	<p>There is no paper in tray 1.</p> <p>Action: Load paper into paper tray 1.</p> <p style="text-align: center;"></p> <p>"4.2.1 Loading Paper in the Paper Tray"</p>

"N" represents a number.


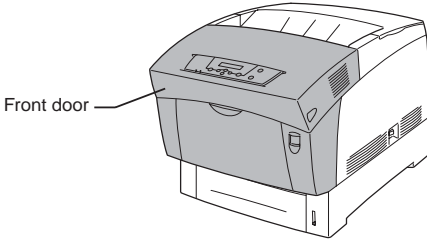

"xxx" represents a paper size or paper orientation.




Message	Meaning and Action
Load xxx in Tray N	<p>Paper size xxxx is not loaded in tray N or is different from that specified on the computer.</p> <p>Action: Load paper xxxx into tray N. If the computer settings are incorrect, cancel printing.</p> <p>Check the following settings on your computer, reconfigure any that are incorrect, and reprint.</p> <ul style="list-style-type: none"> • Is the correct paper tray specified? • Is the correct paper size specified? <p style="text-align: center;"></p> <p>"4.2.1 Loading Paper in the Paper Tray" "3.4.2 Canceling Printing at the Control Panel"</p>
Check Paper in Tray N	<p>Paper is not properly loaded in tray N or is different from that specified on the computer.</p> <p>Action: Pull out tray N and check the paper. If the computer settings are incorrect, cancel printing.</p> <p>Check the following settings on your computer, reconfigure any that are incorrect, and reprint.</p> <ul style="list-style-type: none"> • Is the correct paper tray specified? • Is the correct paper size specified? <p style="text-align: center;"></p> <p>"4.2.1 Loading Paper in the Paper Tray" "3.4.2 Canceling Printing at the Control Panel"</p>
Push in Tray N	<p>Tray N is not properly inserted.</p> <p>Action: Push tray N completely back into the printer.</p>
Load xxxx in a Tray	<p>The paper specified on the computer is not loaded into any of the trays.</p> <p>Action: Load paper xxxx into a tray. If size specified on the computer is incorrect, cancel printing. Specify the correct paper on the computer and reprint.</p> <p style="text-align: center;"></p> <p>"4.2.1 Loading Paper in the Paper Tray" "3.4.2 Canceling Printing at the Control Panel"</p>
Push in the Tray	<p>None of the trays are properly inserted.</p> <p>Action: Push the all paper trays completely back into the printer.</p>
Empty Exit Tray	<p>The face down tray is full.</p> <p>Action: Remove the paper from the face down tray.</p>
Replace Black Toner (K)	<p>The black toner cartridge is empty.</p> <p>Action: Replace the black toner cartridge.</p> <p style="text-align: center;"></p> <p>"8.1.2 Replacing Toner Cartridges"</p>

"N" represents a number.

"xxx" represents a paper size or paper orientation.



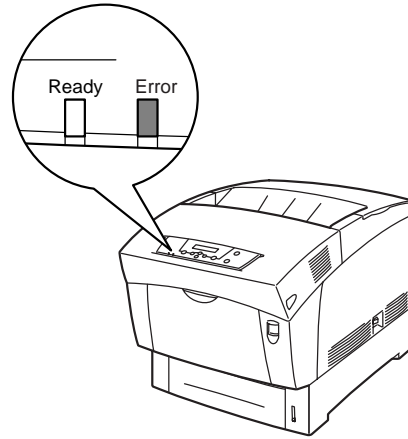
Message	Meaning and Action
Reinsert Black Toner (K)	There is no black toner cartridge inserted in the printer or the cartridge is improperly set. Action: Grip the levers at each end of the black toner cartridge with your fingers, then push down firmly to rotate the levers forward to install the cartridge.  "8.1.2 Replacing Toner Cartridges"
Operation Error Please Press Set	The request from the computer could not be printed. Action: Press the Set/Eject button and cancel printing. Check the printer driver settings and reprint.
Operation Denied While Printing	An illegal operation was performed on the control panel during printing. Wait until printing finishes.
Ready to Print OOOOO toner (O) Need Replacement	This is a warning message. There is almost no toner remaining in OOOOO toner cartridge. Prepare a new OOOOO toner cartridge to replace the old cartridge when it becomes empty.
Ready to Print ServCall J	This is a warning message. It is time to replace the fuser unit.
Ready to Print Trans Roller Need Replacement	This is a warning message. It is almost time to replace the transfer roller. Prepare a new transfer roller ready to replace the old one when the time comes.
Ready to Print Drum Cartridge Need Replacement	This is a warning message. It is almost time to replace the drum cartridge. Prepare a new drum cartridge to replace the old one when the time comes.
Close Front Door	The front door is open. Action: Make sure that the front door is properly closed. 
Replace Magenta Toner (M)	The magenta toner cartridge is empty. Action: Replace the magenta toner cartridge.  "8.1.2 Replacing Toner Cartridges"

Message	Meaning and Action
Reinsert Magenta Toner (M)	<p>There is no magenta toner cartridge inserted in the printer or the cartridge is improperly set.</p> <p>Action: Grip the levers at each end of the magenta toner cartridge with your fingers, then push down firmly to rotate the levers forward to install the cartridge.</p> <p> "8.1.2 Replacing Toner Cartridges"</p>
Out of Memory Please Press Set	<p>There is not enough memory available for the printer to function normally.</p> <p>Action: Press the Set/Eject button and cancel printing. Install an additional memory and reprint.</p> <p> "Appendix A Introduction to Options and Consumables"</p> <p>If you are unable to install an additional memory, print after configuring the printer driver as follows:</p> <ul style="list-style-type: none"> • Switch off two-sided printing and Multi-Up. • Set Normal to Document Type in the Graphics tab (Windows). Note that this lowers image quality. <p> Help</p>

6.8

The Error Indicator is On or Blinking

The red Error indicator on the control panel indicates that there is a problem with the printer. When the Error indicator is on or is blinking while you are using the printer, refer to the sections below and follow the procedures therein.



6.8.1 The Error Indicator is On

When the Error indicator is on, it indicates a paper jam or other problem that you can rectify by yourself. Rectify the problem according to the message displayed on the control panel.

See

For detailed information about the meaning of error messages, refer to "6.7 When an Error Message Appears on the Control Panel", and correct the error as instructed.

6.8.2 The Error Indicator is Blinking

When the Error indicator is blinking, it indicates a problem that you cannot rectify by yourself. Write down the message and error code displayed, switch off the printer and contact your service technician or dealer.

6.9

Forcing the Printer to Print Remaining Data (When Printing is Halted)

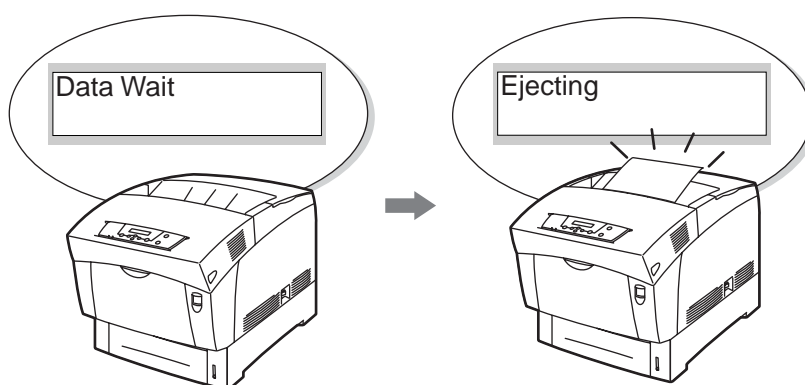
If the end of the data stops in the middle of a page, the printer waits for the next data until the job timeout occurs and "Data Wait" appears on the control panel.

Forcing the printer to print data is useful in this case, because the printer does not wait for the timeout to elapse before it begins printing the data stored in it.

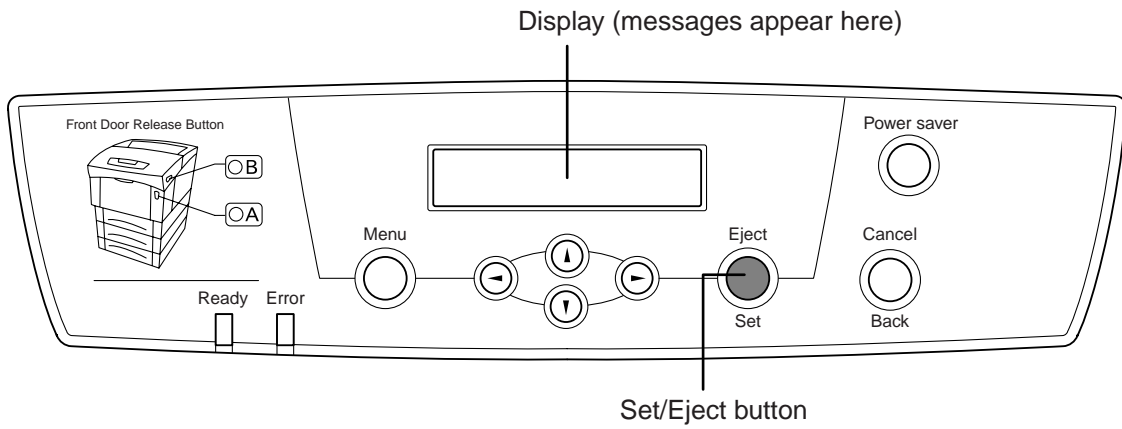
This section describes the procedure for forcing the printer to print data remaining in it.

See

The default job timeout is 300 seconds. You can set the job timeout between 5 and 300 seconds on the control panel. For details about the job timeout function, refer to "5.3 List of Menu Items".

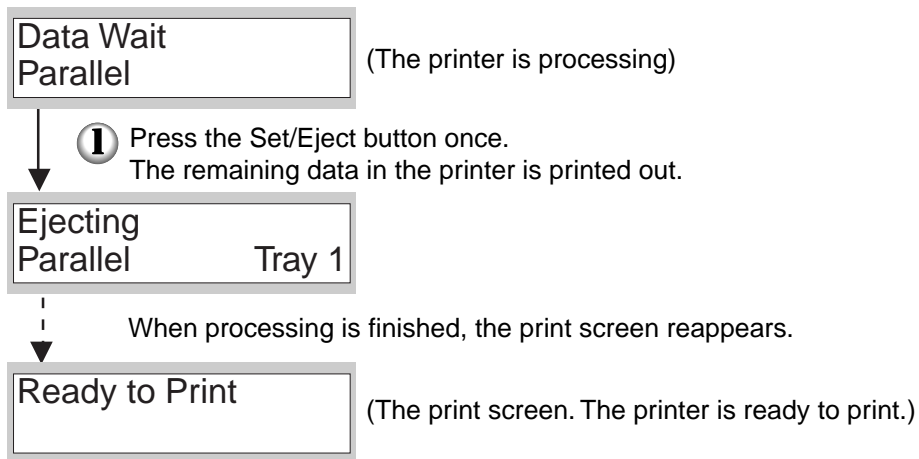


Follow the procedure below. Use the following control panel buttons:



See

For details about control panel operations, refer to "5.2 Basic Menu Operation".

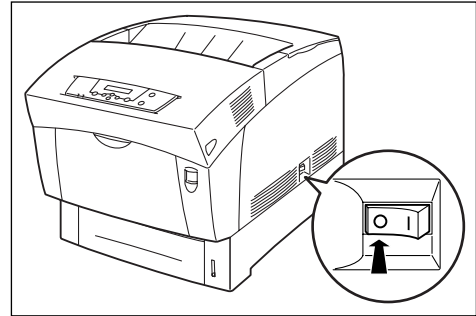


6.10 Cleaning the Density Sensor

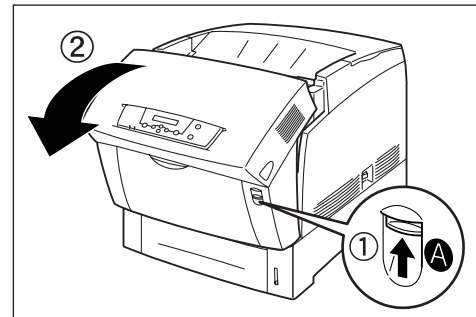
When the printer's density sensor is dirty, follow the procedure below to clean it.

Procedure

- 1 On the printer's right side, press the side of the power switch marked "○" to switch off the printer.



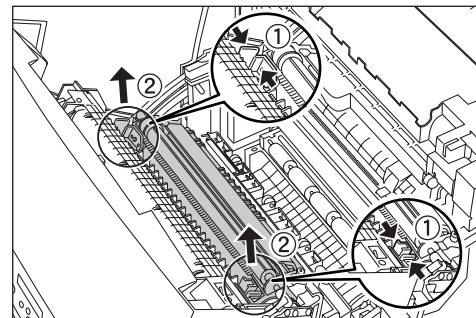
- 2 Push up button A (1) and fully open the front door (2).



- 3 Grip the orange tabs at both ends of the transfer roller (1) and gently lift it out of the printer (2).

LOOK

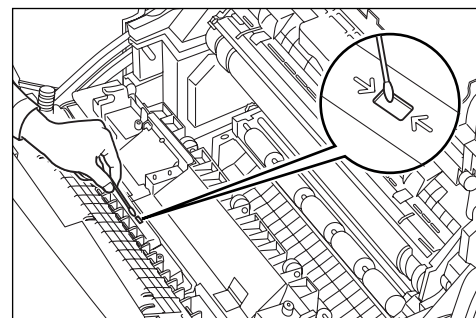
Lift the transfer roller carefully to prevent transfer roll from spilling out.



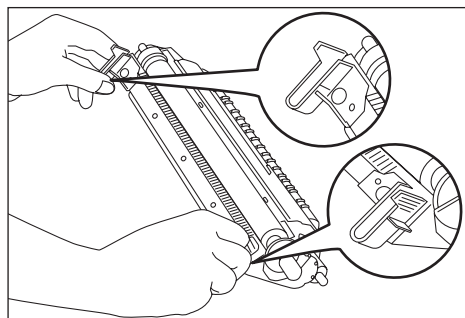
- 4 Gently wipe the density sensor window with a clean dry cloth or cotton swab.

LOOK

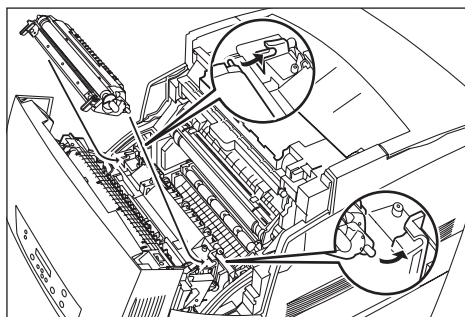
Do not allow anything hard to come in contact with the density sensor window. Do not use excessive force to clean the window.



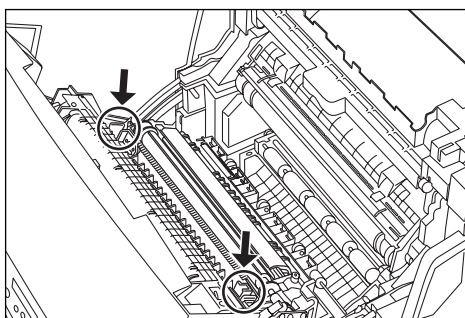
- 5** Replace the transfer roller. Grip the orange U-shaped tabs as shown.



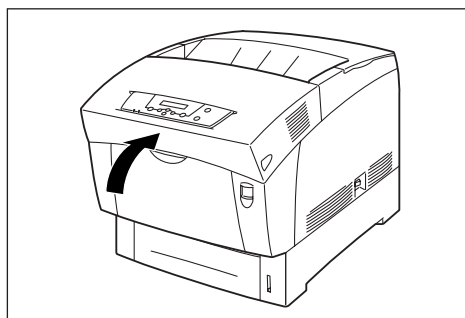
- 6** Insert the pins at both ends of the transfer roller into the bearings inside the printer.



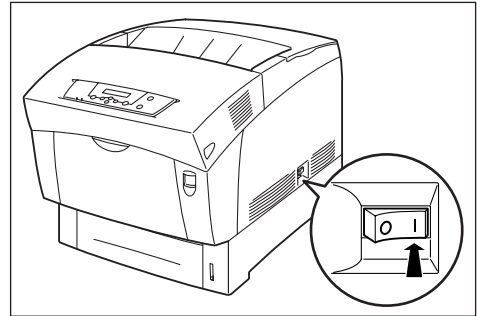
- 7** To lock the transfer roller into the printer, push down on the tabs until you hear a click.



- 8** Close the front door.



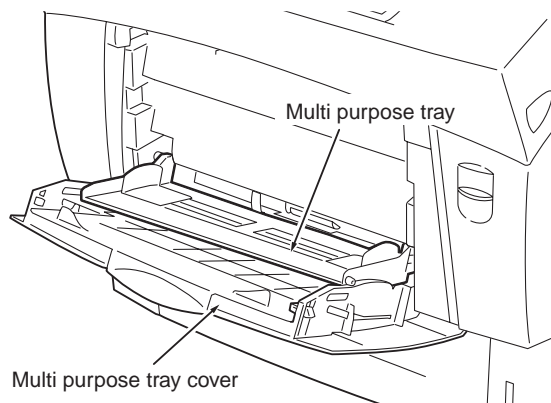
- 9 On the printer's right side, press the side of the power switch marked "I" to switch on the printer.



6.11 If the Multi Purpose Tray Comes Loose

The multi purpose tray can come loose from the printer if it receives a strong shock. If it has come loose, move to the reference according to the symptom to fix the problem.

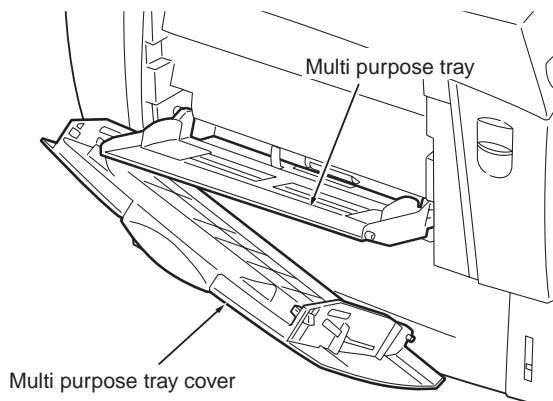
<If the pins on one or both sides of the multi purpose tray are outside of the holes in the tray cover>



See

"Mount Multi Purpose Tray Cover Onto the Multi Purpose Tray."

<If the multi purpose tray has separated from the printer>



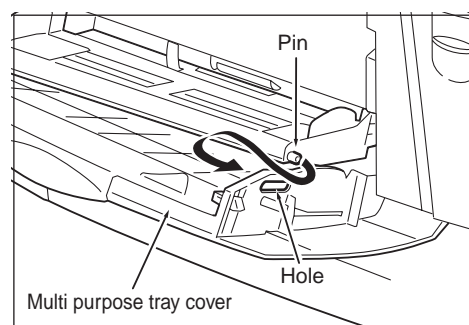
See

"Mount Multi Purpose Tray Onto the Printer."

●●● Mount Multi Purpose Tray Cover Onto the Multi Purpose Tray.

Procedure

- 1 Bend the multi purpose tray cover to the outside and insert the protrusions on the multi purpose tray into the holes in the cover.



- 2 If both sides are loose, do the same for the other side.

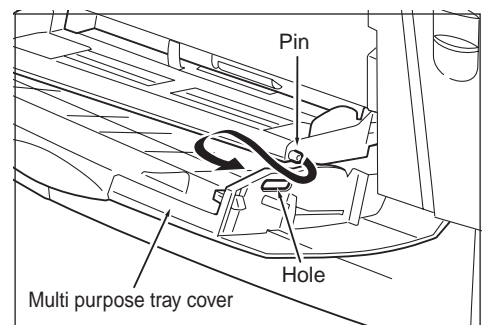
●●● Mount Multi Purpose Tray Onto the Printer.

Procedure

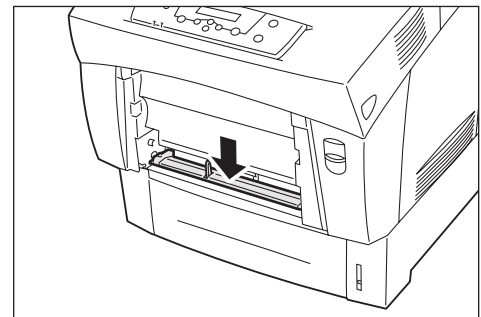
1 Removing the multi purpose tray cover and multi purpose tray from the printer.

2 Push up button A (1) and fully open the front door (2).

Then, close the front door.

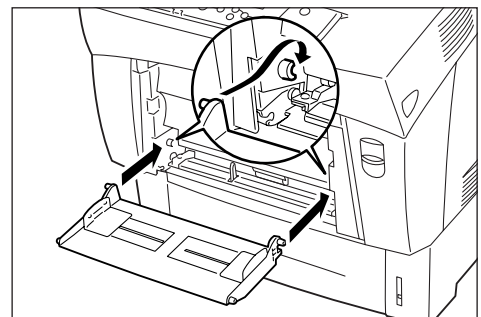


3 Make sure that the part shown in the drawing hanging down.

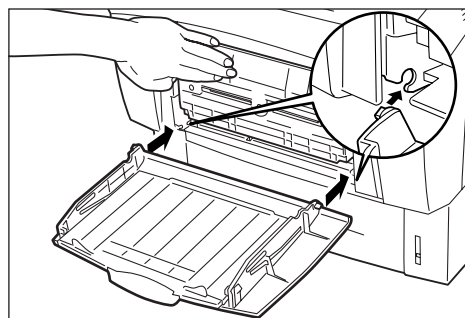


4 Hold the multi purpose tray horizontally and insert it all the way inside from the front of the printer.

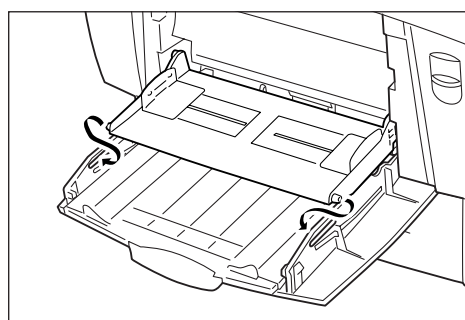
Pull the protrusions on the multi purpose tray all the way from the front to the back on the printer bearings.



- 5** Lay the multi purpose tray on the printer side. While holding it with your hand, insert the protrusions on both sides of the multi purpose tray cover into the bearings on the printer.



- 6** Lay the multi purpose tray. While holding it with your hand, insert the protrusions on both sides of the multi purpose tray into the holes in the multi purpose tray cover.



Chapter

7

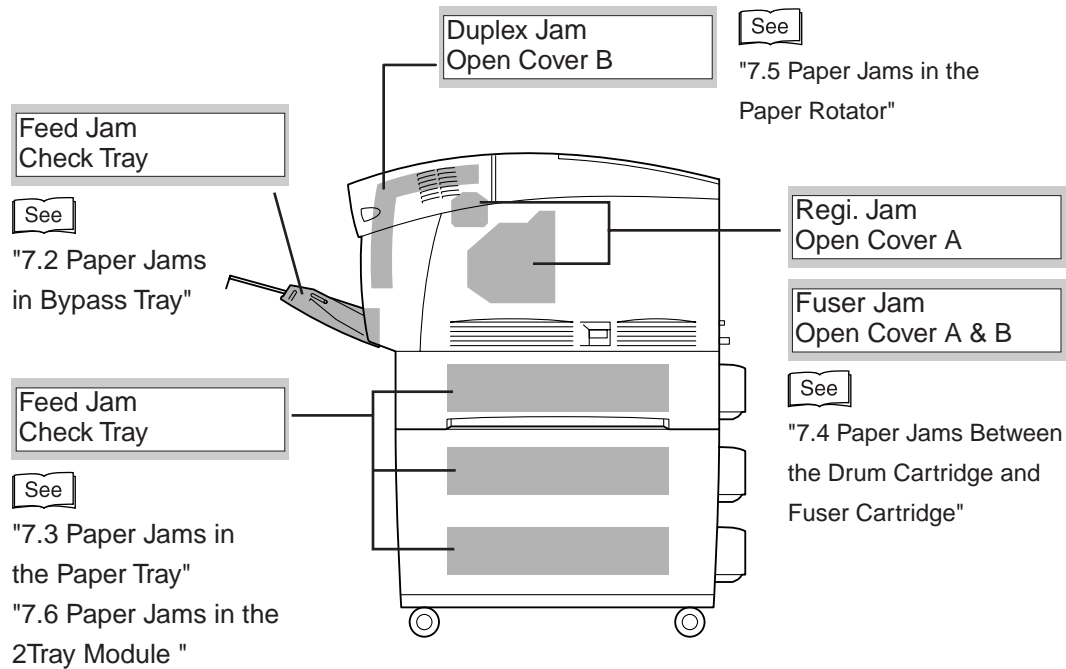
Clearing Paper Jams

7.1	Paper Jams.....	170
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7.1 Paper Jams

If a paper jam occurs, printing stops and an error message appears on the control panel informing you of the location of the paper jam.

To clear the paper jam, read the error message, refer to the appropriate section below, and follow the procedure.



LOOK

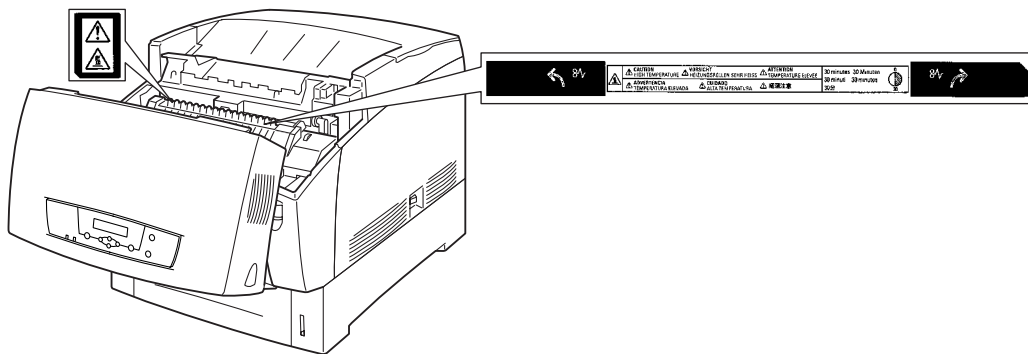
Attempting to print while there is paper jammed in the printer may damage the printer. Remove jammed paper immediately.

Note

- If a paper jam occurs, the open cover indicators on the printer comes on, according to the location of the jam. Press button A or B, open the front door, and remove the jammed paper.
- The illustration above shows the printer with the optional 2 tray module installed.

⚠ CAUTION

- When removing jammed paper, make sure that no pieces of torn paper are left in the machine. A piece of paper remaining in the machine can cause fire.
If a sheet of paper is wrapped around the heat roller, or when clearing a jammed paper that is difficult or impossible to see, do not try to remove it by yourself. Doing so can cause injuries or burns. Switch off the machine immediately, and contact your Tally service or dealer.
- Never touch a labelled area found on or near the heat roller. You can get burnt.
If a sheet of paper is wrapped around the heat roller, do not try to remove it by yourself to avoid injuries or burns. Switch off the machine immediately, and contact your service technician or dealer.

**LOOK**

- If smoke comes out of the printer when a paper jam occurs, do not open the printer covers. Switch off the printer, remove the power cord from the AC outlet, and contact your service technician or dealers for assistance.
- Remove jammed paper slowly and carefully to avoid tearing it.

Note

Paper jams can be caused by incorrect printer installation, or using unsuitable or low-quality paper. For details about the types of paper suitable for printing, refer to "4.1 Suitable and Unsuitable Paper Types".

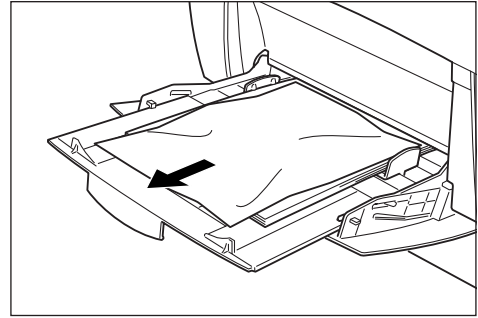
7.2

Paper Jams in Multi Purpose Tray

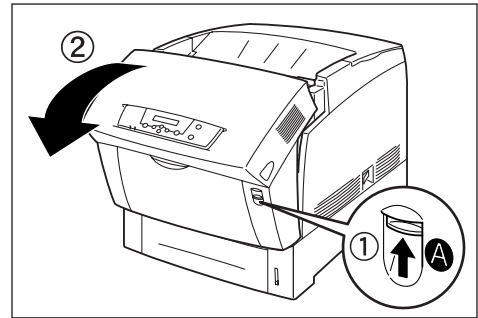
Follow the procedure below to remove the jammed paper.

Procedure

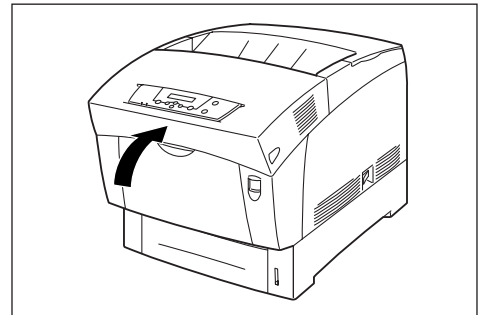
- 1** Pull the jammed paper out of the multi purpose tray.



- 2** Push up button A (1) and fully open the front door (2). Confirm that there are no scraps of paper remaining inside the printer.



- 3** Close the front door.



7.3

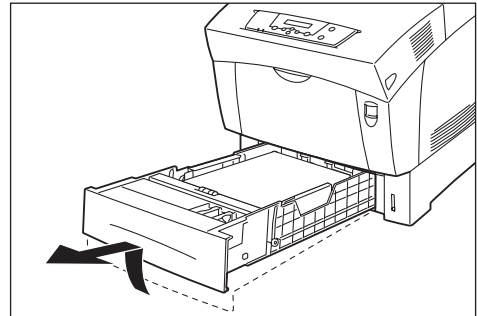
Paper Jams in the Paper Tray

If the Optional 2 tray module is not installed, follow the procedure below to remove paper jammed in the paper tray.

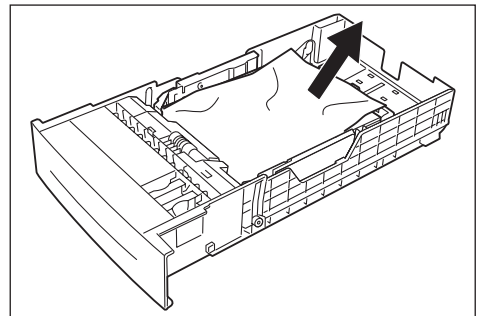
If the Optional 2 tray module is installed, look for the jammed paper sequentially, starting with the lowest tray. Follow the procedure described in "7.6 Paper Jams in the Tray Module (1 or 2 cassettes)".

Procedure

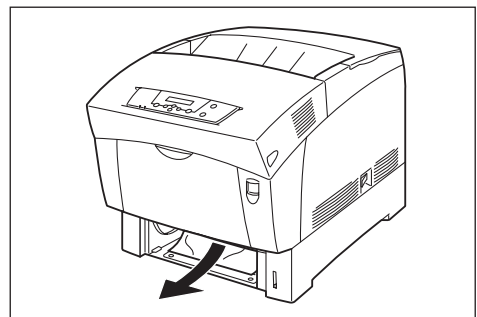
- 1** Slowly, completely remove the paper tray from the printer.



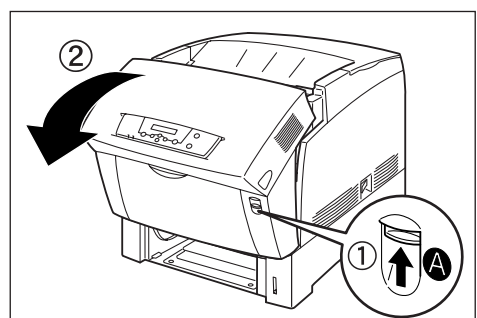
- 2** Remove all the jammed and/or creased paper from the tray.



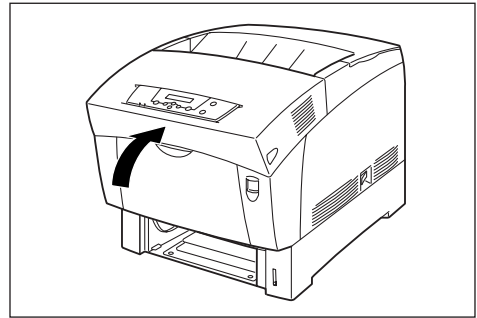
- 3** If there is jammed paper remaining inside the printer, pull it out carefully to avoid tearing it.



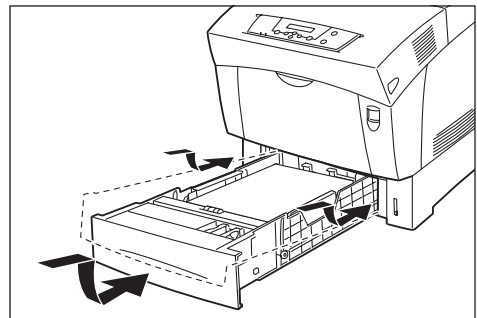
- 4** Push up button A (1) and fully open the front door (2). Confirm that there are no scraps of paper remaining inside the printer.



5 Close the front door.



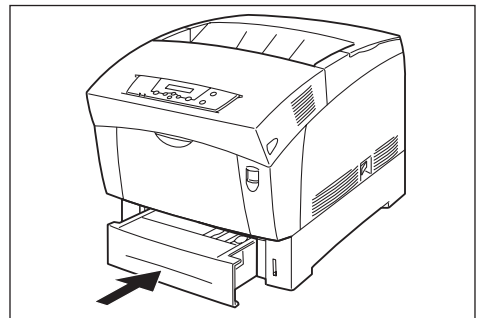
6 Hold the paper tray with both hands, align it with the opening in the printer and gently insert it.



7 Push the paper tray completely back into the printer.

LOOK

Do not use excessive force on the paper tray. Doing so could damage the paper tray or the inside of the printer.



7.4

Paper Jams between the Drum Cartridge and Fuser Cartridge

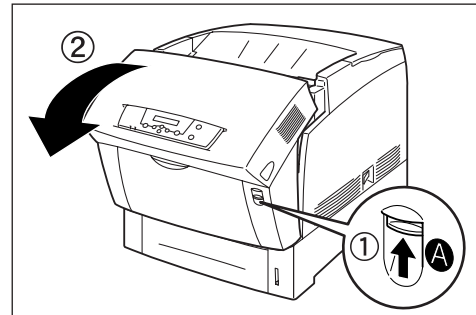
This section describes the procedures to remove paper jammed around the drum cartridge and in the fuser. Select the appropriate procedure according to the location of the jammed paper.

●●● Paper Jams Around the Drum Cartridge:

Follow the procedure below to remove the jammed paper. Be careful when near the fuser unit as this is very hot.

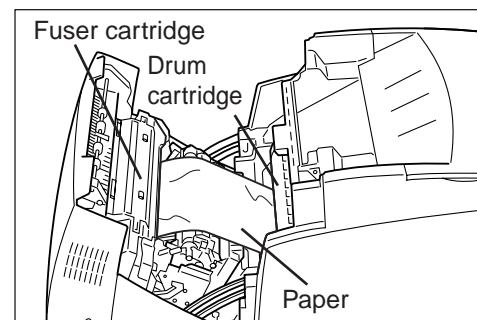
Procedure

- 1 Push up button A (1) and fully open the front door (2).



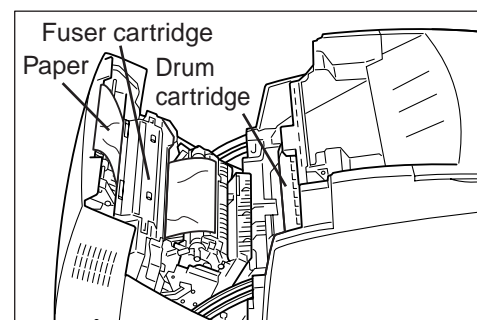
- 2 If there is paper jammed around the drum cartridge (Illustration A), continue following this procedure.

<Illustration A>



If there is paper jammed around the fuser cartridge (Illustration B), follow the procedure for "Paper Jams Around the Fuser Cartridge:" on the next page.

<Illustration B>

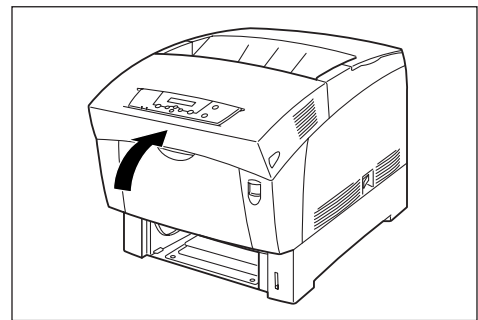
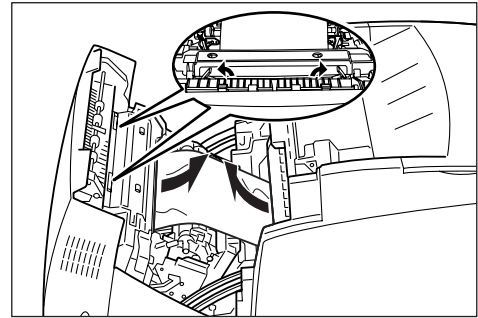


- 3 Open the fuser cartridge levers and remove the jammed paper. Ensure that you do not touch the drum when removing the jammed media.

If the paper is torn, remove any scraps of paper remaining inside the printer.

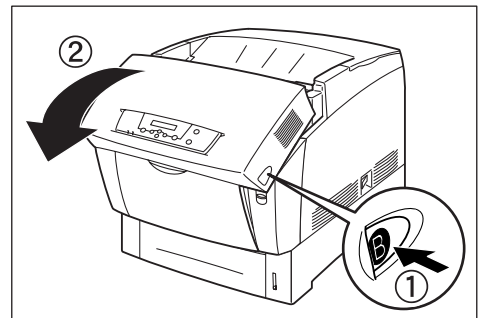
- 4 Be sure to close the fuser cartridge levers after removing the jammed paper.

- 5 Close the front door.



••• Paper Jams Around the Fuser Cartridge:

- 1 Push button B (1) and open the front door (2).

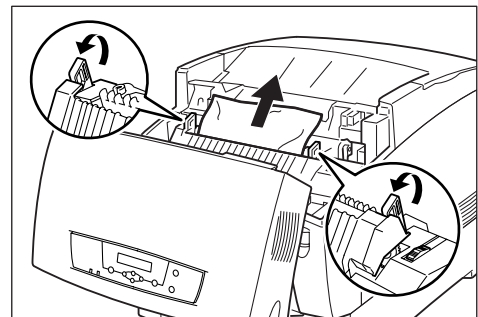


- 2 Open the levers at the ends of the fuser cartridge and remove the jammed paper.

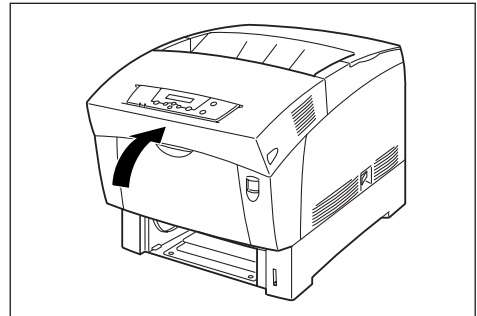
If the paper is torn, remove any scraps of paper remaining inside the printer.

LOOK

During operation, the fuser unit (heater) becomes very hot. Touching directly can cause burns. Be very careful.



- 3** Be sure to close levers at the ends of the fuser cartridge after removing the jammed paper.
- 4** Close the front door.



●●● **Paper Longer Than 355.6 mm Becomes Jammed:**

If paper longer than 355.6 mm becomes jammed in the printer, cut the paper as necessary and remove the paper from the location where it is jammed using the appropriate procedure. If the front door is difficult to open, do not force it. Switch off the printer immediately and contact your Tally service or dealer.

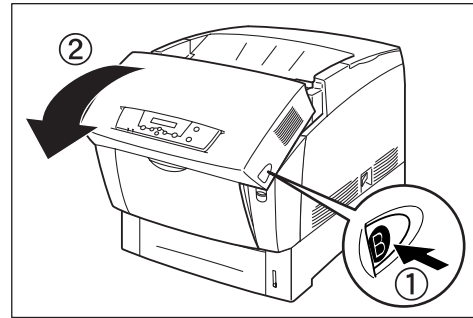
7.5

Paper Jams in the Duplexer

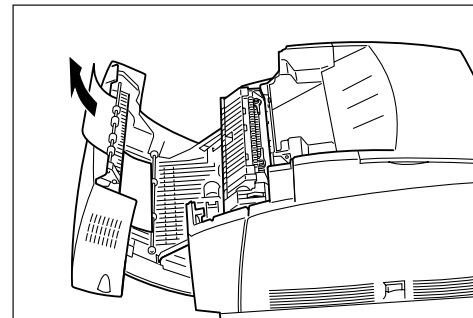
Follow the procedure below to remove the jammed paper.

Procedure

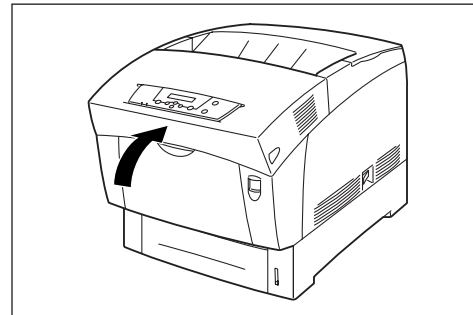
- 1** Push button B (1) and open the front door (2).



- 2** Remove the jammed paper.
If the paper is torn, remove any scraps of paper remaining inside the printer.



- 3** Close the front door.



7.6 Paper Jams in the Tray Module (1 or 2 cassettes)

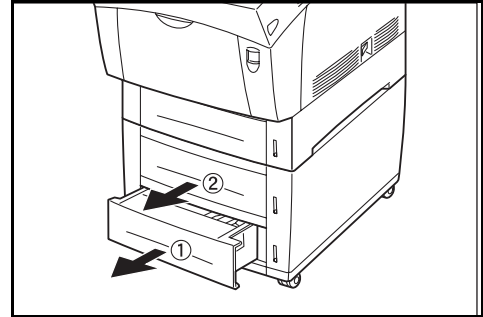
Follow the procedure below to remove paper jammed in the tray module (2 cassettes). When the printer is equipped with the tray module (1 shelf), you can use the same procedure as described in this section to remove the jammed paper.

Procedure

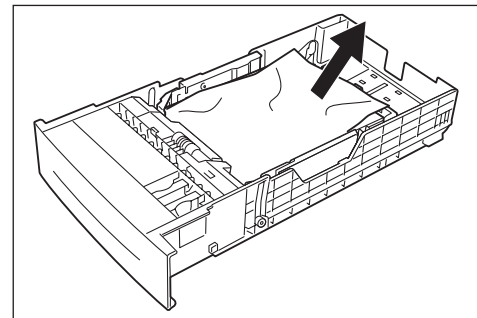
- 1 Open the trays until you find the jammed paper.

LOOK

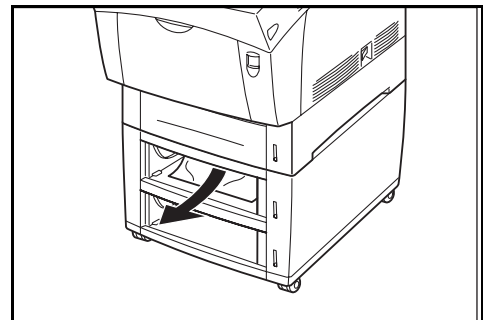
Paper in the tray module feeds to the printer from the front of the trays, therefore paper jammed in the lower tray can block the upper tray of the module or the paper tray in the printer, preventing you from opening them. Look for the jammed paper sequentially, starting with the lowest tray.



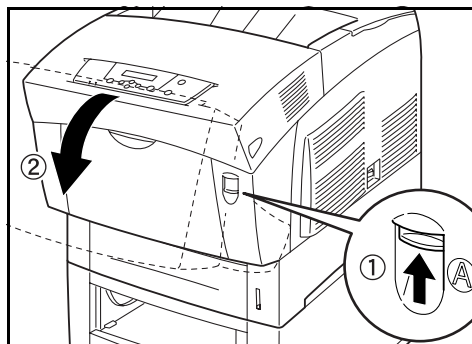
- 2 Remove all jammed and/or creased paper from the tray.



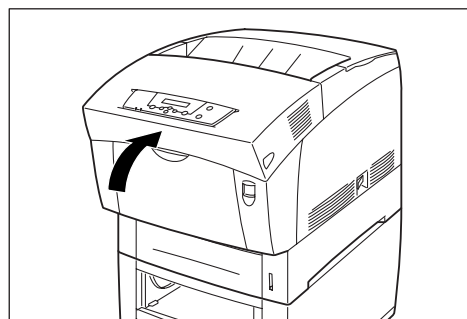
- 3 Pull the jammed paper out carefully to avoid tearing it. If the paper is torn, confirm that there are no scraps of paper remaining inside the printer.



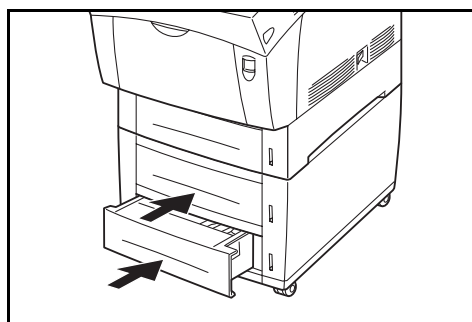
- 4** Push up button 'A' ① and fully open the front cover ②. Confirm that there are no scraps of paper remaining inside the printer.



- 5** Close the front cover.



- 6** Close all open paper trays.



Chapter

8

Daily Care

8.1	Replacing the Toner Cartridges	182
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8.1

Replacing the Toner Cartridges

This section describes how to handle, store and replace toner cartridges. It is necessary to replace a Toner Cartridge only when the printer stops printing and has the error led lit together with a message requesting to change the toner.

8.1.1 Toner Cartridge Handling Precautions

The printer uses four toner cartridges: black, yellow, magenta, and cyan. The black toner cartridge is capable of printing about 9,000 A4 pages. The yellow, magenta, and cyan cartridges are capable of printing about 6,000 A4 pages (at the default print density, with 5% coverage per color).

⚠ Warning Never throw used toner cartridges into a fire. The residual toner could explode resulting in burns and injuries.

●●● Handling Precautions

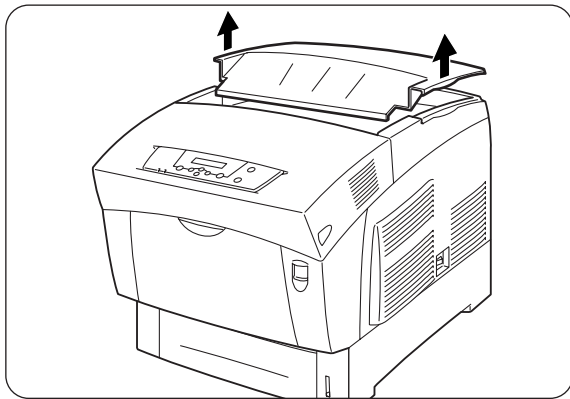
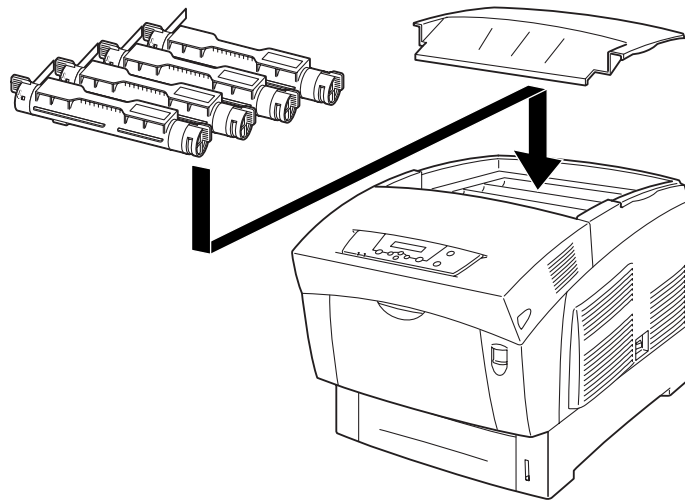
- Never use a vacuum cleaner to clean toner. Static electricity could build up and damage sensors.
- Do not reuse toner cartridges once you have removed them from the printer. Loose toner could spill inside the printer and deteriorate print quality.
- To prevent residual toner from spilling, avoid shaking or bumping used toner cartridges.
- After moving a toner cartridge from a cold place to a warm place, allow 1 hour for the cartridge to adapt to room temperature before installing it. (This is not necessary if there is no condensation.)
- Toner is harmless, but should still be washed off immediately if it comes into contact with hands or clothing.
- Only use toner cartridges recommended by Tally. Using toner cartridges that are not recommended may result in lower print quality and unsatisfactory printer performance.
- Wrap used toner cartridges in plastic bags and dispose of them as non-burnable waste.
- When handling toner cartridges, take care not to damage the projection (the same color as the cartridge) at the bottom of the cartridge.

●●● Storage Precautions

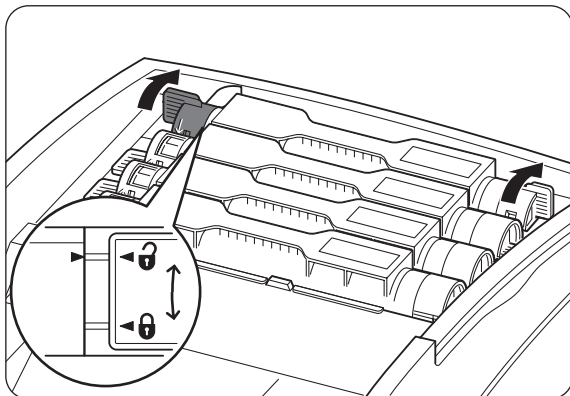
- Store toner cartridges away from direct sunlight under the following conditions:
Ambient temperature range, 0 to 35°C. Humidity range 15 to 80% RH (no condensation).
- Avoid hot and humid areas.
- Avoid storing near magnetic objects such as CRT screens, disk drives, or floppy disks.
- Keep out of reach of children.
- Do not stand toner cartridges on their ends.

8.1.2 Replacing Toner Cartridges

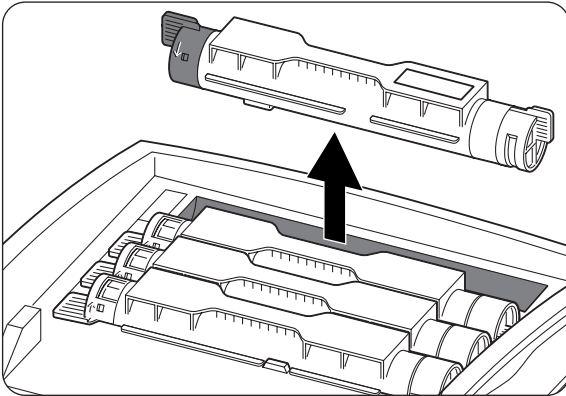
Follow the procedure below to replace toner cartridges.



1 Remove the top cover.



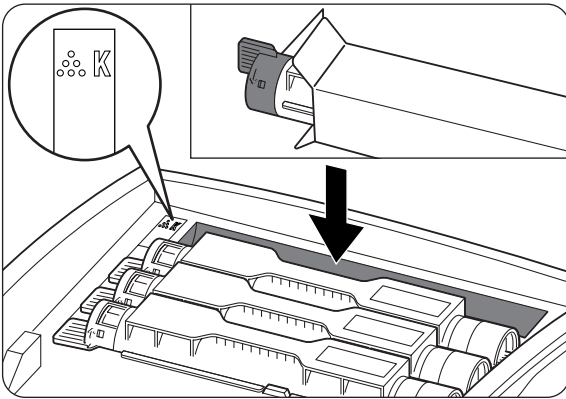
2 Grip the levers at the ends of the toner cartridge that you want to replace and pull them up.



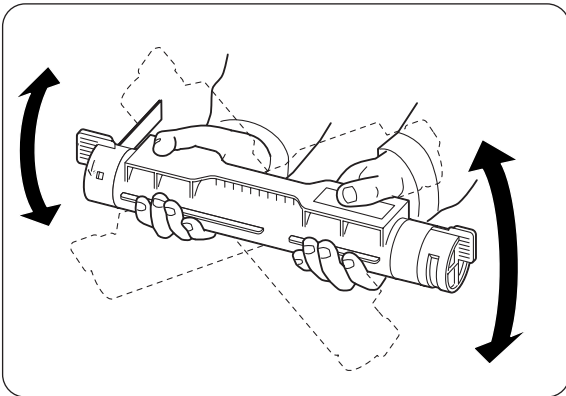
3 Pull out the toner cartridge.

Note

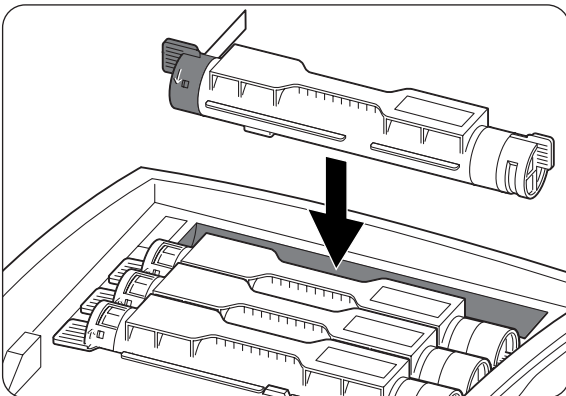
Put the toner cartridge on a piece of paper to prevent toner from staining the floor or furniture.



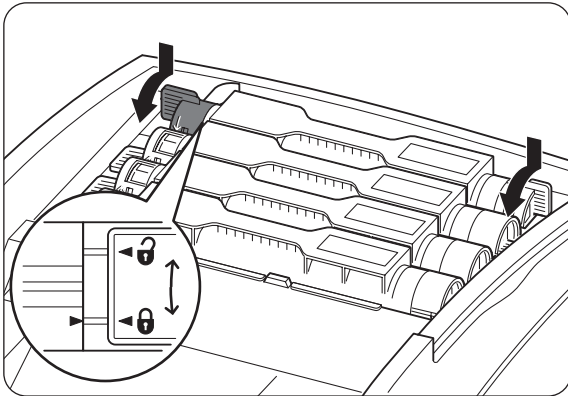
4 Select the new toner cartridge whose color matches the cartridge holder and remove it from its packaging.



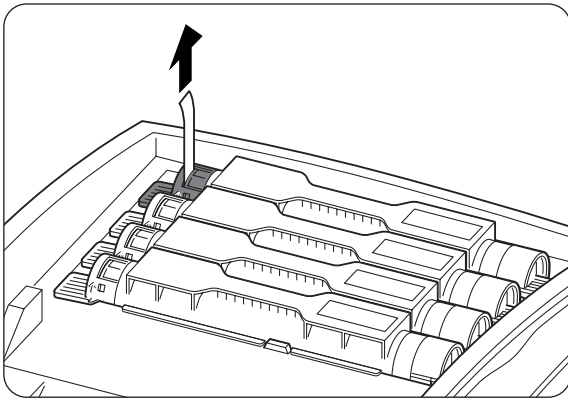
5 Shake the toner cartridge 7 or 8 times as illustrated to distribute the toner evenly.



6 Align the toner cartridge with the corresponding insertion point in the printer and insert it as illustrated.



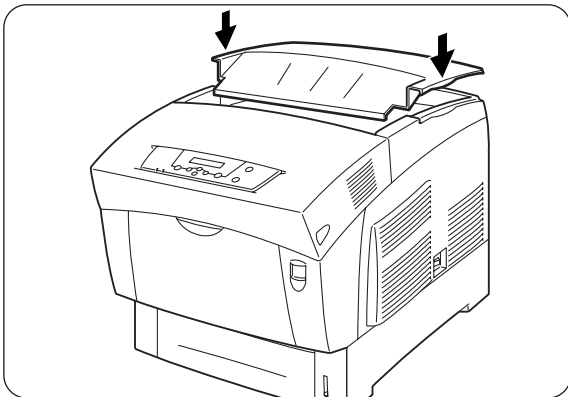
7 Grip the levers at each end of the toner cartridge with your fingers, then push down firmly to rotate the levers forward.



8 Pull the toner seal straight up to remove it.

LOOK 

- Pull the toner seal straight up. Pulling the toner seal diagonally may tear the seal.
- If it takes more than five seconds until you remove the toner seal after inserting the toner cartridge in the printer, an error message may appear. In this case, perform step 7 again, or turn the printer off once and then on again.



9 Replace the top cover.

8.2

Replacing the Drum Cartridge

This section describes procedures for handling, storing and replacing the drum cartridge.

8.2.1 Drum Cartridge Handling Precautions

The drum cartridge consists of a light-sensitive drum, a developer and a transfer roller. The drum cartridge is capable of printing about 30,000 A4 pages (continuous portrait, at the default print density, with 5% color coverage) with a 1:1 color/monochrome ratio, and when printing in units of four pages.



Printing in units of one page or two pages results in about 24,000 pages of life span. Printing in units of three pages results in about 28,000 pages.

●●● Handling Precautions

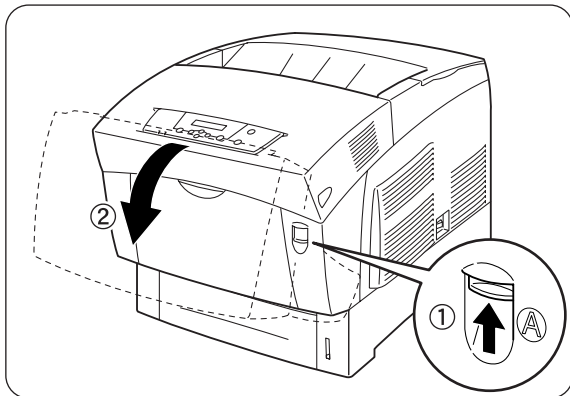
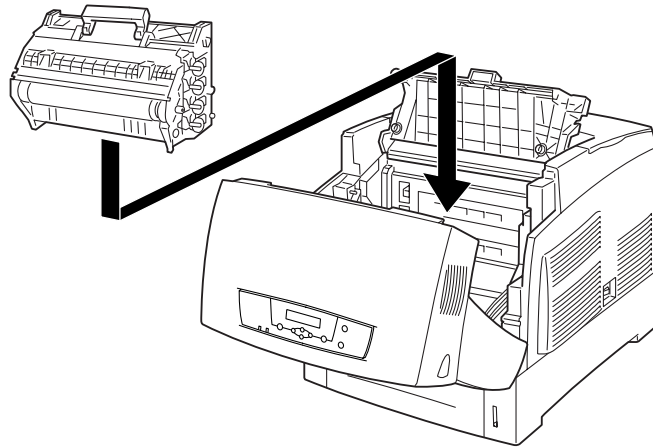
- Make sure nothing touches or scratches the light-sensitive drum surface (green colored part) or transfer roller (black colored part). Scratches, dirt, or oil from your hands on the drum or transfer roller deteriorates print quality.
- Do not expose the drum cartridge to direct sunlight and avoid exposing the drum cartridge to fluorescent indoor light, as this may result in drop-outs or dirty printing.
- When replacing the drum cartridge, work on a desk or other flat surface to avoid scratching the light-sensitive drum and transfer roller.
- Avoid removing the drum cartridge from the printer before it is time to replace it. Removing and replacing the drum cartridge can cause dirt to stick to the cartridge and deteriorate print quality.
- Avoid tilting or shaking the drum cartridge when removing it, as toner may spill inside the printer and cause damage.
- To ensure good print quality, keep the drum cartridge level when handling it.
- The drum cartridge weighs 4.5 kg. Handle it carefully.
- Wrap used drum cartridges in a plastic bag and dispose of them as non-burnable waste.

●●● Storage Precautions

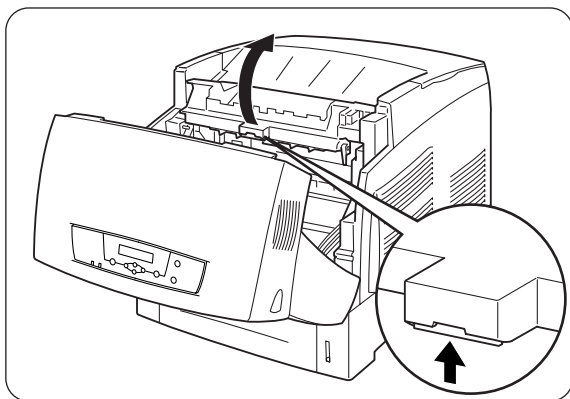
- Do not unpack the new drum cartridge until you are ready to install it. If the drum cartridge is unpacked put it in its aluminum package for storage.
- Store drum cartridges away from direct sunlight under the following conditions:
Ambient temperature range, 0 to 35°C; humidity range, 15 to 80 % RH (no condensation)
- Avoid storing in hot humid areas.
- Avoid storing near magnetic objects such as CRT screens, disk drives, or floppy disks.
- Keep out of reach of children.
- Store in a level position.

8.2.2 Replacing the Drum Cartridge

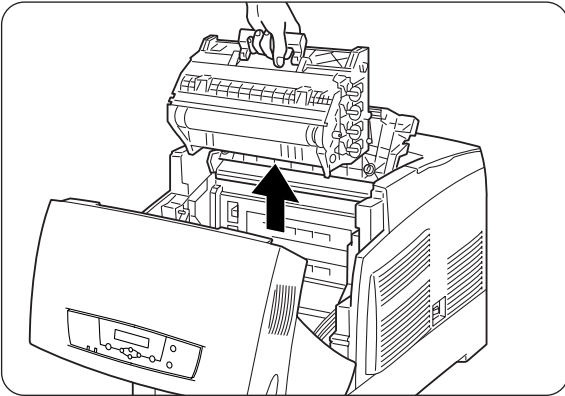
Follow the procedure below to replace the drum cartridge.



- 1 Push up button 'A' ① and fully open the front cover ②.



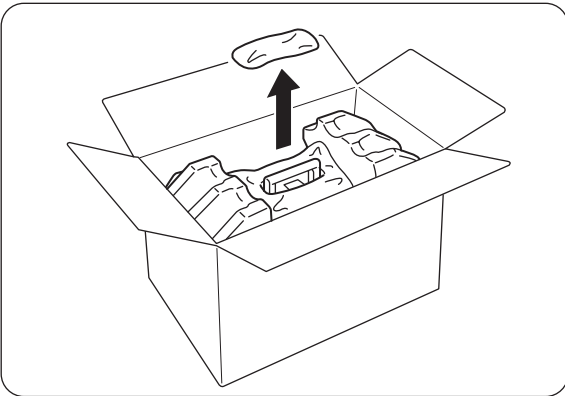
- 2 Open the paper outlet cover.



- 3 Grip the handle on top of the drum cartridge and gently lift it out of the printer.

LOOK 

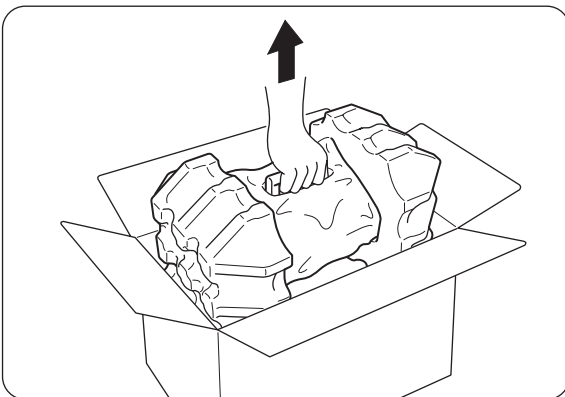
Hold the drum cartridge by the handle on top of the cartridge to prevent the cartridge from falling.



- 4 Open the top of the new drum cartridge box and pull off the top part of the aluminum package.

Note 

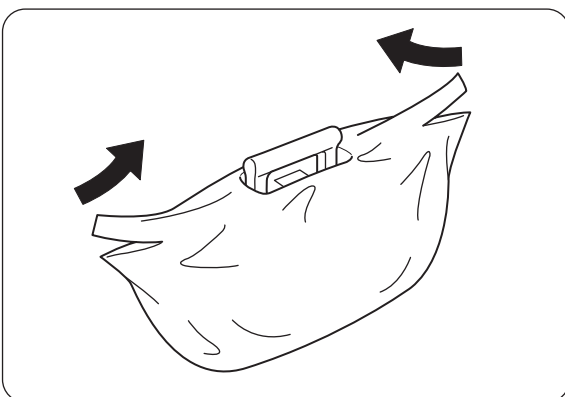
Remove the sheet by working inward from the two notches.



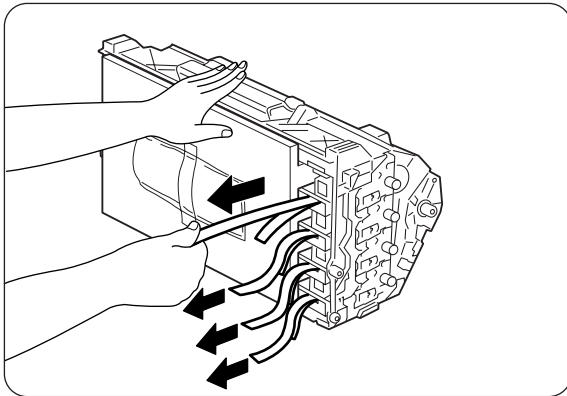
- 5 Grip the handle on top of the drum cartridge and gently lift it. Place the cartridge on a flat surface.

LOOK 

- *Lift the drum cartridge by the handle. Do not allow the cartridge to touch anything when removing it from the box.*
- *When setting the drum cartridge, do not shake or tilt them.*



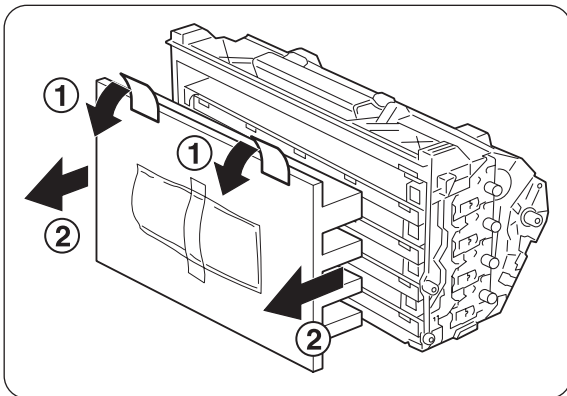
- 6 Remove the polystyrene packing and open the top of the aluminum package from the left and right.



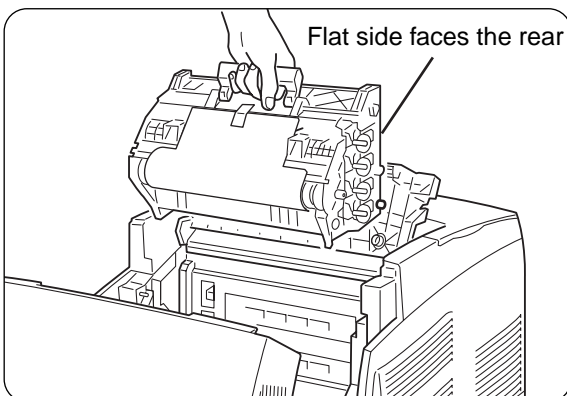
- 7 Take the new drum cartridge out of its package and pull on the longer of the paired seals horizontally toward you. Repeat this for the other 3 tapes.

Note 

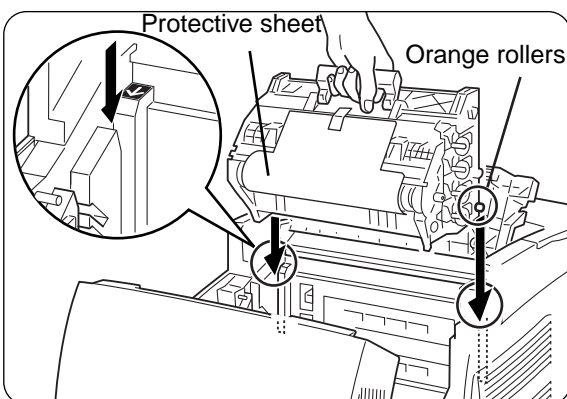
Keep the drum cartridge polystyrene packing, aluminum package, and box in case you need to transport the printer over long distances in the future.



- 8 Remove the tape from the top of the cartridge ①, hold the protective cover on both sides and remove it from the drum cartridge ②.



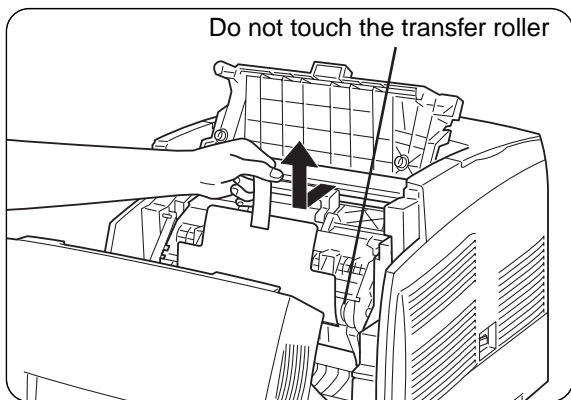
- 9 Grip the handle on top of the drum cartridge and face the flat part towards the back of the printer.



- 10 With the flat part of the cartridge facing the rear, align the orange rollers on both sides of the drum cartridge with the slots in front of the arrows on the printer, and gently lower the cartridge into the printer.

LOOK 

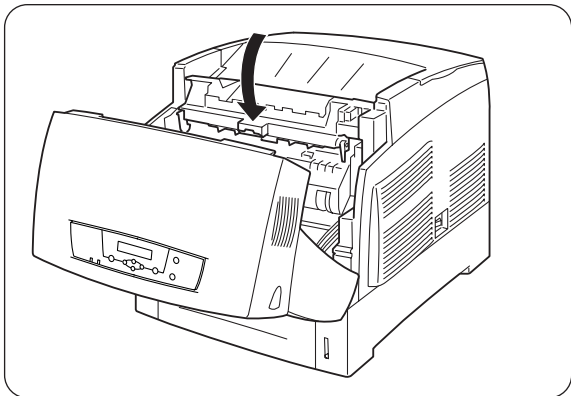
- Lowering the cartridge into the printer without correctly aligning the rollers with the slots can damage the cartridge.
- Do not allow the surface covered with a protective sheet to come into contact with anything.



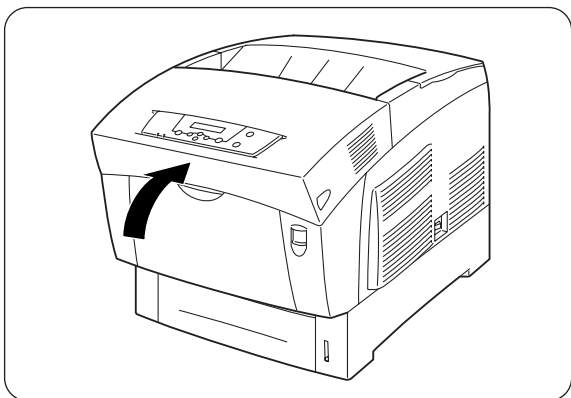
- 11** Pull the protective sheet on the cartridge straight up to remove it, as illustrated.

LOOK

Do not touch the transfer roller (black part). Make sure that nothing touches or scratches the roller surface. Scratches or oil from your hands on the roller deteriorates print quality.



- 12** Close the paper outlet cover.



- 13** Close the front cover.

8.3

Replacing the transfer roller

This section describes the procedure for replacing the transfer roller cartridge.

8.3.1 Transfer Roller Cartridge Handling Precautions

The transfer roller cartridge consists of a transfer roller and a waste toner collection box. The transfer roller cartridge is capable of printing about 25,000 A4 pages (at default print density, with 5% color coverage) with a 1:1 color/monochrome ratio, and when printing in units of four pages.

 **Warning** Never throw used transfer roller cartridges into a fire. The residual toner could explode, resulting in burns.



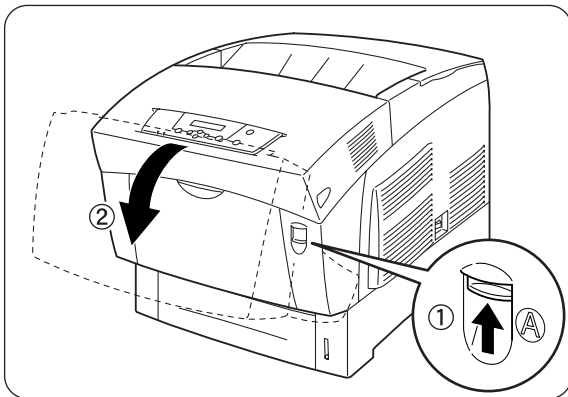
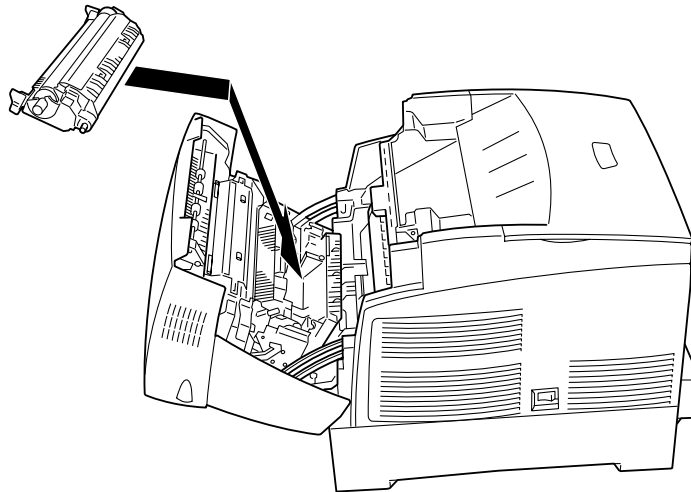
Note *The actual number of printable pages varies depending on the content of printed material, paper size, and operating environment. A message prompting you to replace the transfer roller may appear before the average number of pages indicated above is actually printed.*

●●● Handling Precautions

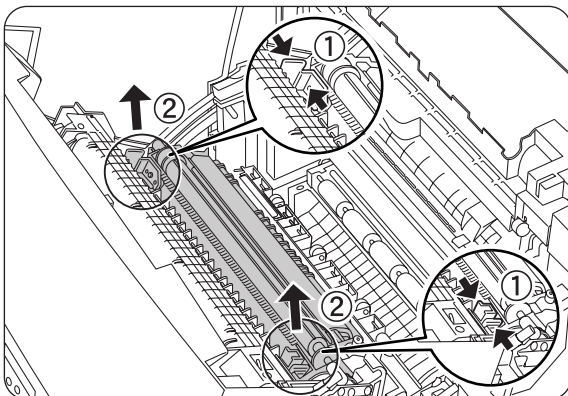
- Avoid removing the transfer roller cartridge before it is time to replace it.
- Replace the transfer roller as soon as the message prompting you to do so appears. The printer stops operating if you do not replace the transfer roller cartridge when required.
- Do not attempt to reuse toner from the waste toner collection box.
- When you remove the transfer roller cartridge from the printer because the waste toner collection box is full, do not attempt to empty the waste toner box and reuse the cartridge, as toner may spill inside the printer and cause damage.
- Do not remove the transfer roller from the printer before it is time to replace it, as toner may spill inside the printer and cause damage.

8.3.2 Replacing the Transfer Roller

Follow the procedure below to replace the transfer roller.



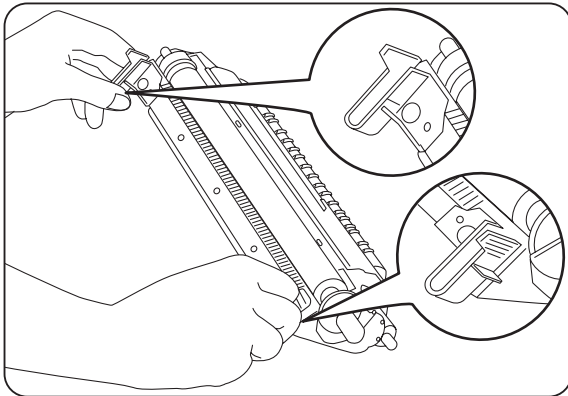
- 1 Push up button 'A' ① and fully open the front cover ②.



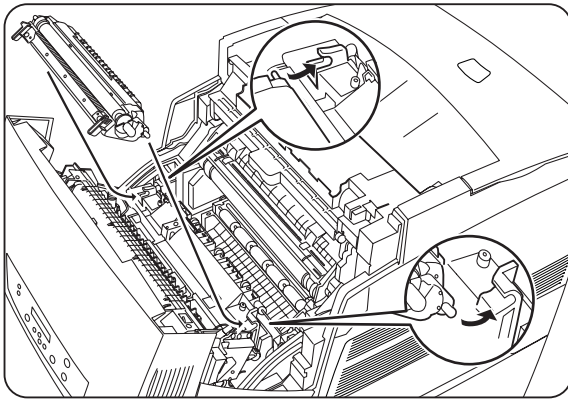
- 2 Grip the orange tabs at both ends of the transfer roller ① and gently lift it out of the printer ②.

LOOK 

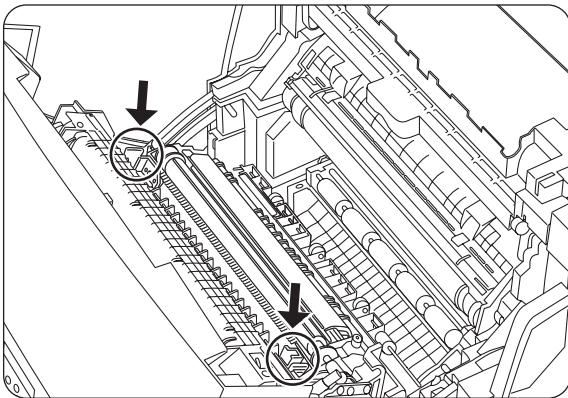
Lift the transfer roller carefully to prevent transfer roll from spilling out.



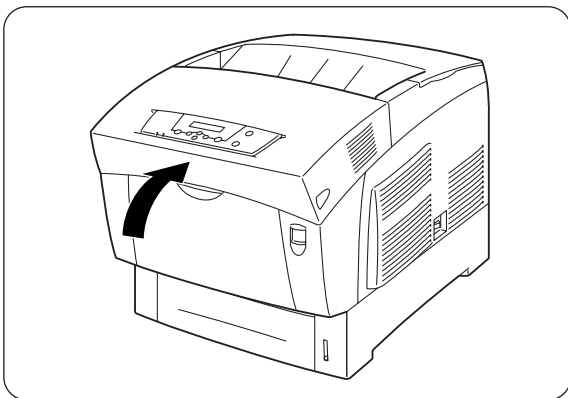
- ③ Unpack a new transfer roller and grip the orange tabs as shown.



- ④ Insert the pins at both ends of the transfer roller into the bearings inside the printer, and gently push the roller into the printer.



- ⑤ To lock the transfer roller into the printer, push down on the tabs until you hear a click.



- ⑥ Close the front cover.

8.4 Printing Reports and Lists

Use the operation panel to print the following reports and lists.

- **Printer Settings**

Use this to confirm options installed in the printer and to check the network settings on the printer.

See

"8.4.1 Confirming Printer Configuration and Network Settings"

- **Panel Settings**

Use this to check the parameters set with the control panel.

- **PCL6 Fonts List**

Use this to find out which fonts are loaded into the printer.

- **Job History**

This is a report of the last 22 print jobs received by the printer. Use it to check whether the jobs were printed normally or not.

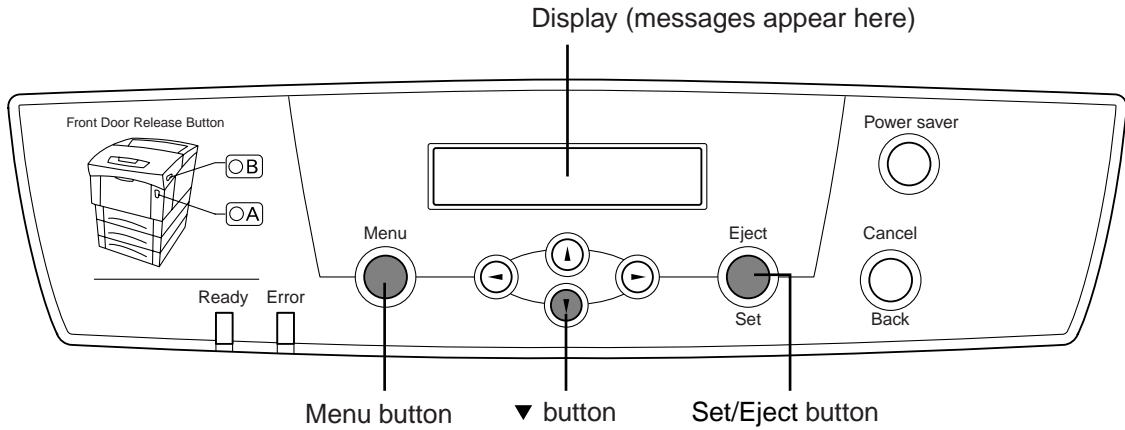
See

"8.4.2 Checking the Print Log"

8.4.1 Confirming Printer Configuration and Network Settings

Printing the Printer Settings list allows you to check what options are installed on the printer and the way the printer's network settings are configured.

This section describes how to print the Printer Settings list. Use the following operation panel buttons:

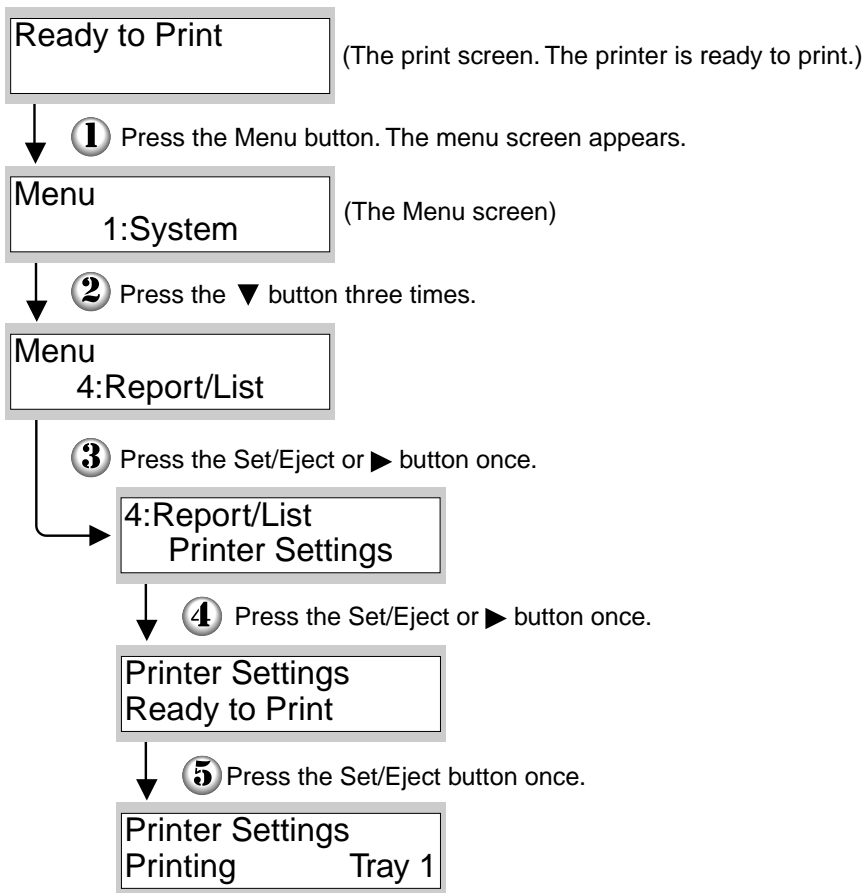


See

For details about operation panel operations, refer to "5.2 Basic Menu Operation".

LOOK

The Printer Settings list is printed on A4 paper. Set the A4 paper lengthwise into the paper tray.



When printing is finished, the print screen reappears.

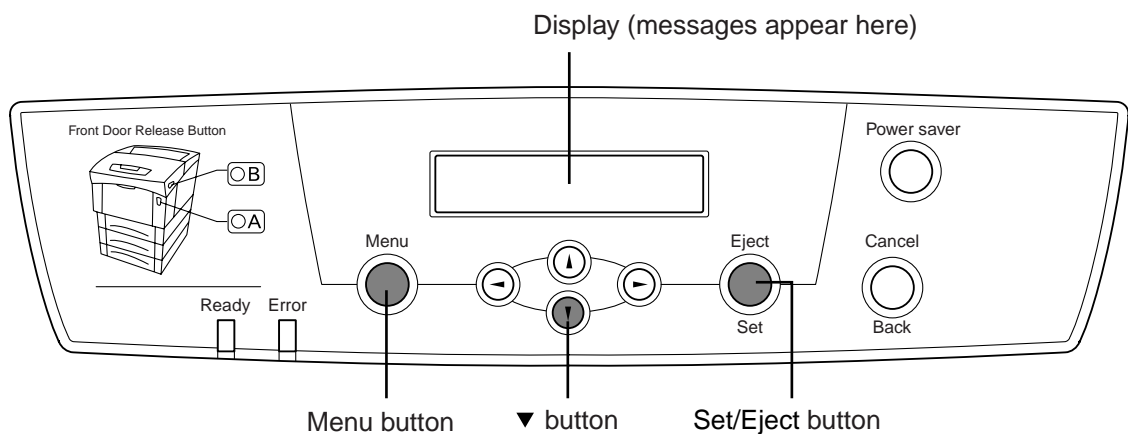
8.4.2 Checking the Print Log

Use the control panel to print the Job History Report. The print log is a report of the last 22 print jobs received by the printer. Use it to check whether the jobs were printed normally or not.

Note

When "Auto Log Print" in the "1:System" menu is set to "Yes", the print log is printed automatically every 22 print jobs (Default: "No"). For more details, refer to "5.3 List of Menu Items".

This section describes how to print the Job History Report.
Use the following operation panel buttons:

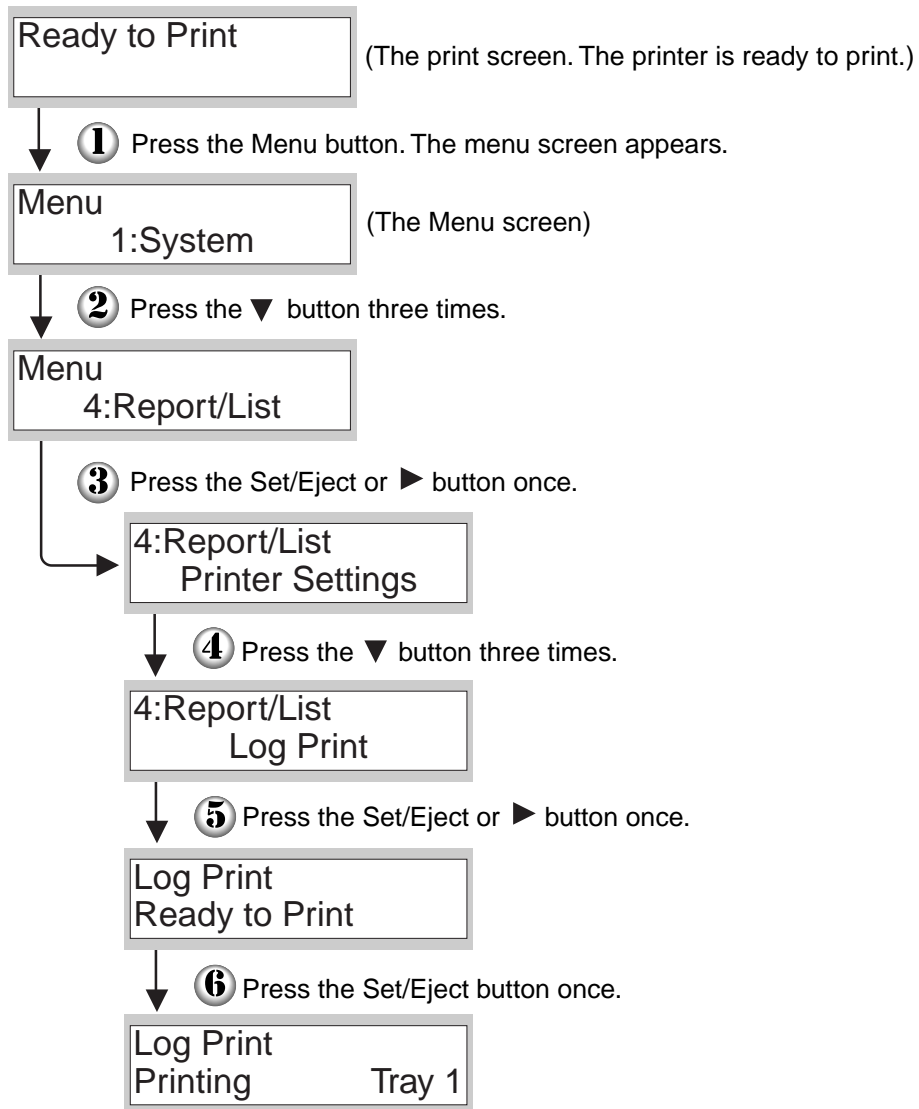


See

For details about operation panel operations, refer to "5.2 Basic Menu Operation".

LOOK

The Job History Report is printed on A4 paper. Set the A4 paper lengthwise into the paper tray.



When printing is finished, the print screen reappears.

8.5

Confirming Printer Status from Your Computer

This printer features a variety of network tools that enable you to check the status of the printer from your computer through the network.

Using these tools saves you from having to leave your computer to check if the printer is working properly.

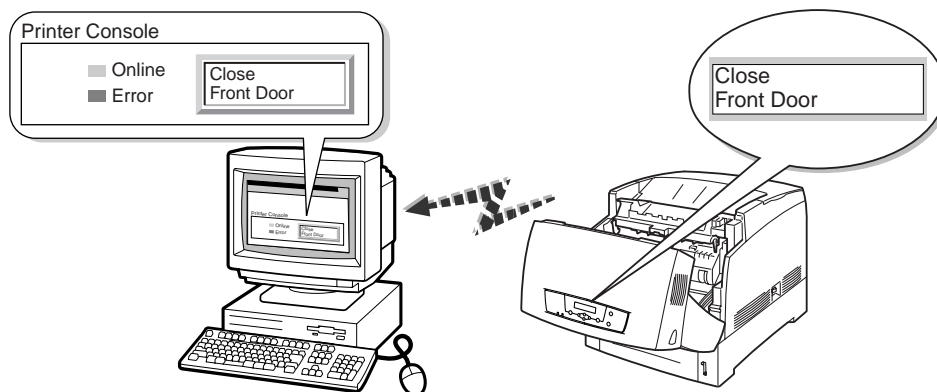
This section gives a basic introduction to the various tools.

8.5.1 Checking Status and Remaining Amounts of Consumables with a Web Browser

When using TCP/IP to communicate with the printer, you can check the printer status and make printer settings through the network from a Web browser.

This feature is called "Internet Services".

Internet Services also let you check the remaining amount of paper and consumables in the printer.



The following section describes the procedure to use Internet Services. The example presented here uses Microsoft Internet Explorer 6.0 running on Windows 98.

Procedure

1 Switch the computer on and start your Web browser.

LOOK

To ensure that Internet Services is working correctly, you need to change the following settings of the browser.

And if the Internet Services is not connected properly, check the settings below:

- Set "Check for newer versions of stored pages" to "Every visit to the page or Every time you start Internet Explorer".

See

For details about Internet Services, refer to the Network User Guide on the CD-ROM provided.

2 In the Address box of your Web browser, type the IP address or the Internet address of the printer.

Note

If you are not certain of the printer's IP address, print the Printer Settings list to confirm it. For details about printing the list, refer to "8.4.1 Confirming Printer Configuration and Network Settings".

Note

- If the network uses DNS (Domain Name System) and the printer host name is registered with the domain name server, you can access the printer using a combination of the host name and the domain name as the Internet address.
DNS is a service that creates an IP address from a host name on the Internet. Consult your system administrator to learn if DNS is in use and the Internet address for the printer.
- With some proxy servers, Internet Services might not appear, even if you input the IP address.

When this occurs, refer to the Network User Guide on the CD-ROM provided with the printer, and set your browser to connect directly to Internet Services, without going through the proxy server.

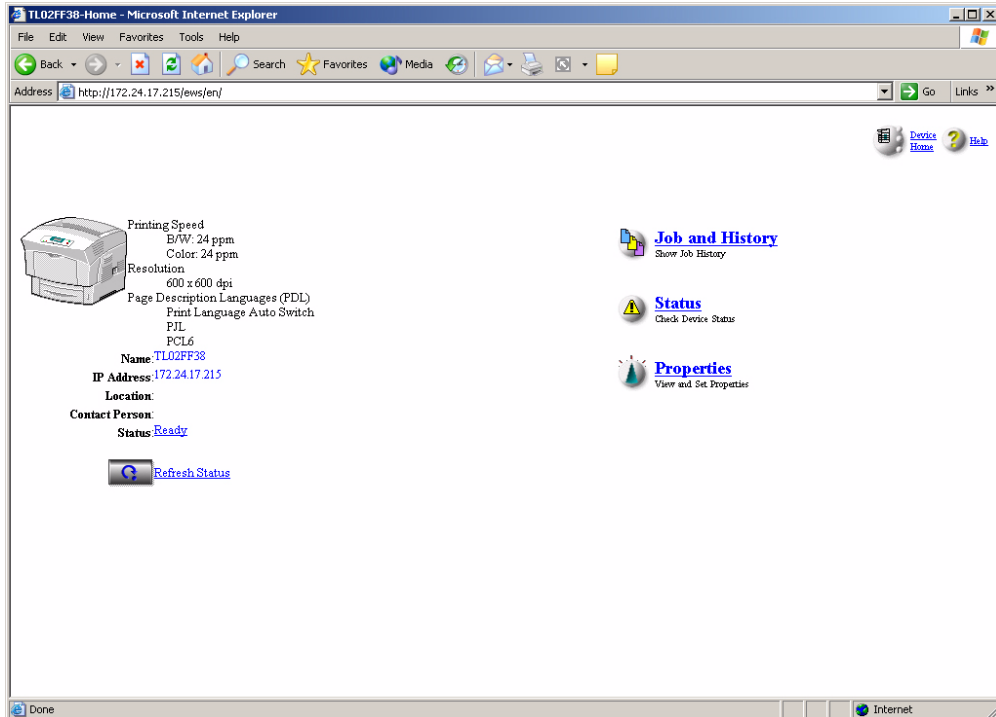
Example 1: For IP address 129.249.242.179, type `http://129.249.242.179/`



3 Press the Enter key.

The Internet Services screen appears.

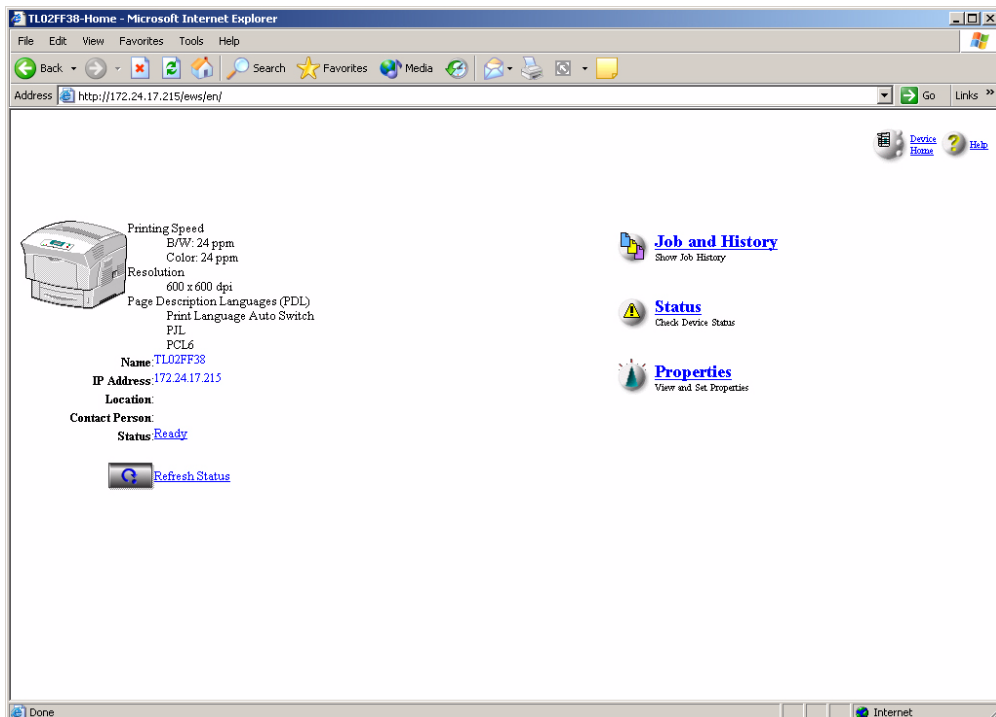
4 Click Job and History.



At the right of the screen, detailed status information about jobs requested from the control panel as well as each protocol is displayed.

Note

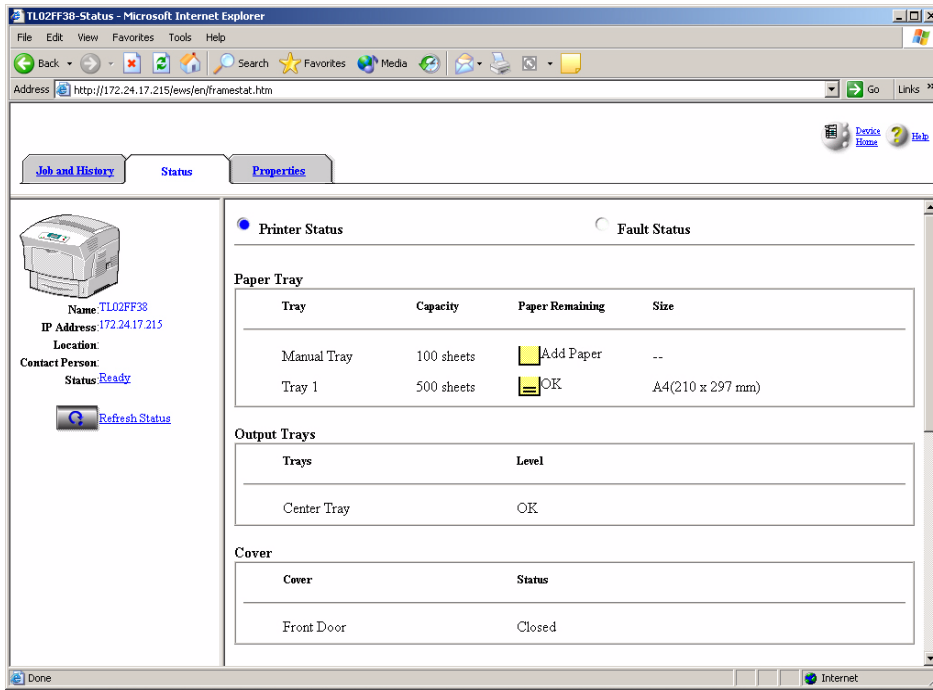
Click Completed Jobs in the tree on the left to view the print log of completed jobs.



5 Click the **Status** tab.

Printer information appears on the right side of the screen.

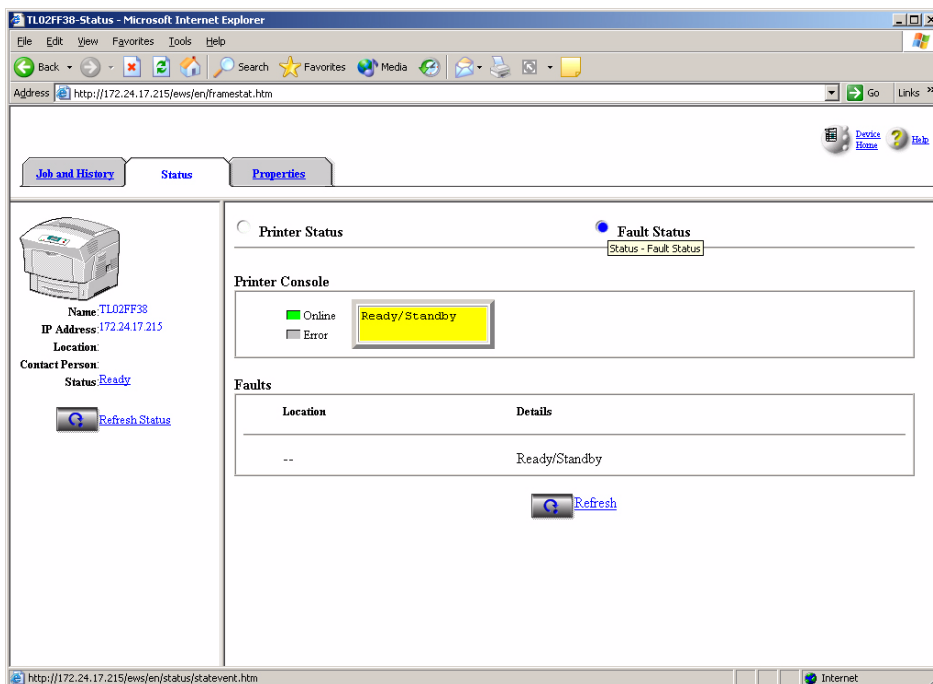
Information about paper trays, the output tray, printer covers, remaining consumables and toner, and the number of sheets output appears in this area.



6 Click **Fault Status**.

Event information appears on the right side of the screen.

Use this to check for errors. The control panel status of the is also displayed.



8.5.2 Checking Status From the Desktop

This printer features a network tool called "Simple Status Notification" that enables you to check the status of the printer through the network from your Windows computer. With this tool, you can determine the status of the printer from the appearance of the icon displayed on the computer's desktop. You can also use this tool to start Internet Services.

For more details, refer to the Network User Guide on the CD-ROM provided.

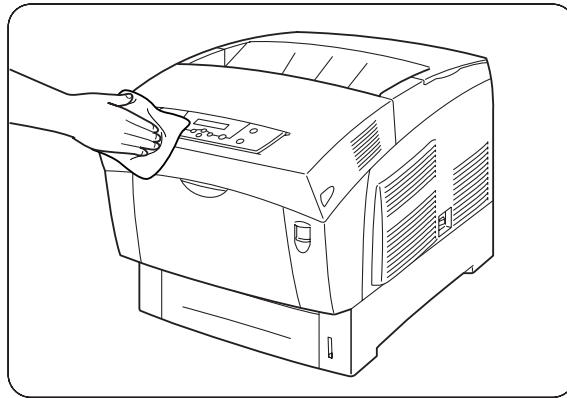


8.6

Cleaning the Printer

Use a soft, damp, well-wrung cloth to clean the outside of the printer. Wipe any remaining water with a soft dry cloth. If some stains prove difficult to remove, use a cloth moistened with a mild neutral detergent. We recommend that you clean the printer at least once a month to keep it in good working condition and to maintain print quality.

⚠ CAUTION To prevent electric shock, turn off the printer and unplug the power cord from the AC outlet before cleaning.



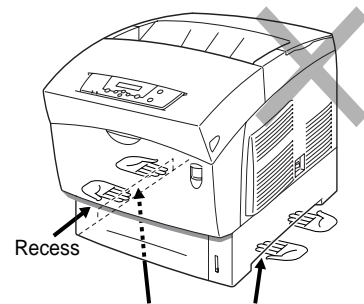
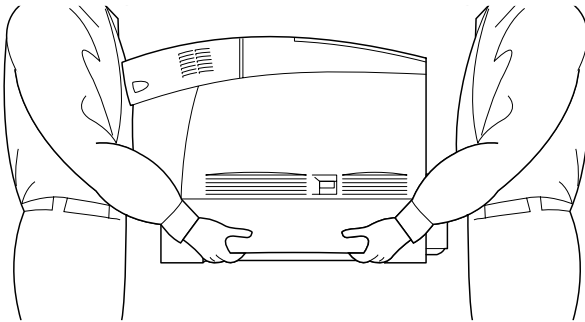
LOOK 

- *Never spray detergent directly onto the printer. Droplets of detergent can enter the printer and cause malfunctions. Never use detergents other than neutral detergents.*
- *Never lubricate the printer with oil. The printer does not require lubrication.*
- *Never use a vacuum cleaner to clean the printer.*

8.7 Moving the Printer

Before transporting the printer by car or truck over long distances, follow the procedure below to prevent strong vibrations from damaging the printer.

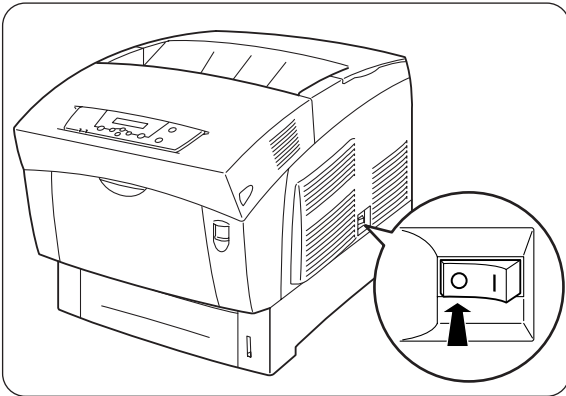
- ⚠ CAUTION**
- Because the printer weighs 34.9 kg fully assembled, make sure that at least two people carry it.
 - To lift the printer, face the front and back of the printer and grip the recessed areas at the bottom left and right with both hands. Never try to lift the printer by gripping any other areas. Lifting the printer by gripping other areas can cause the printer to fall, resulting in injury.
 - Bend your knees when lifting the printer to avoid back injuries.



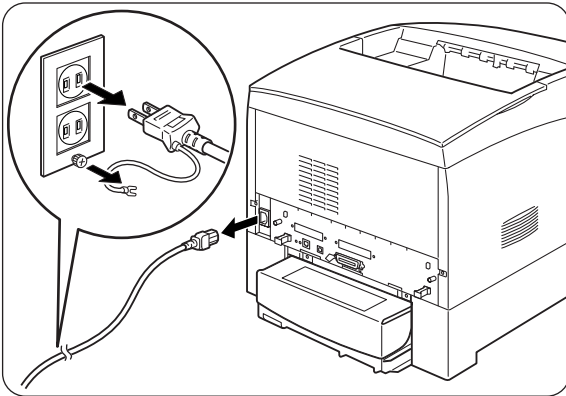
If you hold the printer by the front door, left or right sides, there is a danger of the printer falling.



- When carrying the printer, keep it level to prevent trays or consumables from falling out. Do not tilt it more than 10 degrees in any direction.
- Do not remove the toner cartridges before moving the printer. Toner may spill inside the printer and damage it.
- When the optional tray module (1 or 2 cassettes) is installed, remove it before transporting the printer. If the tray module is not removed, it may fall, resulting in damage or injury. To remove the tray module, refer to chapter “6 Options.”



- 1 On the right side of the printer, press [O] on the power switch to turn off the printer.



- 2 Disconnect the power cord, interface cable, and any other cables.

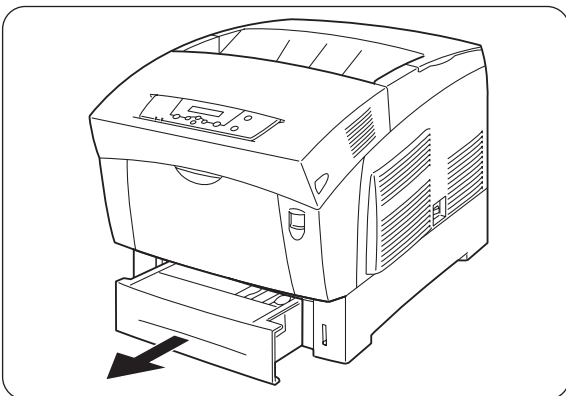
Warning

To prevent electric shock, never touch the power plug with wet hands.

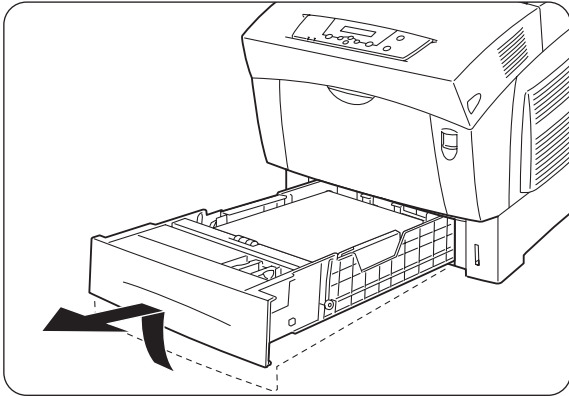
CAUTION

When removing the power cord, make sure that you pull the plug and not the cord. Pulling the cord can damage it, which can lead to fire or electrical shock.

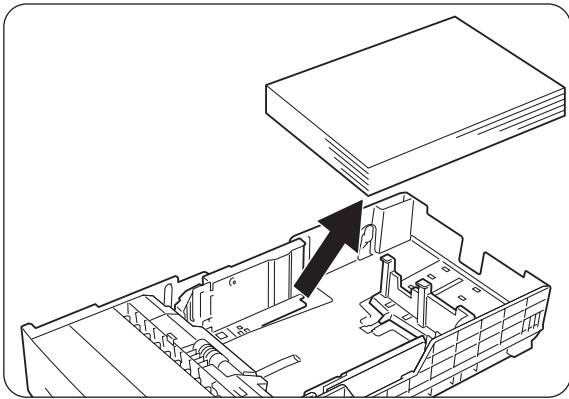
LOOK  The illustration on the left shows the 100V power cord.



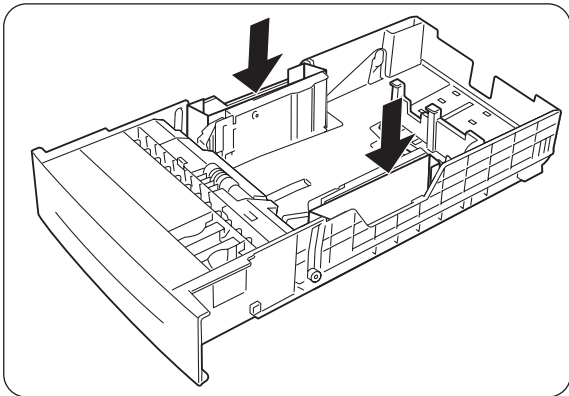
- 3 Gently pull out the paper tray until it stops.



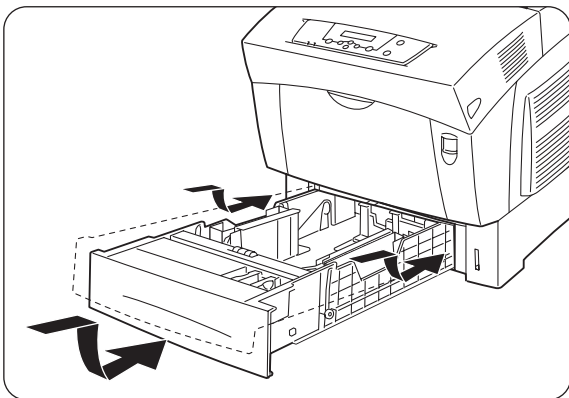
- ④ Hold the tray with both hands, lift the front up slightly and pull it completely out of the printer.



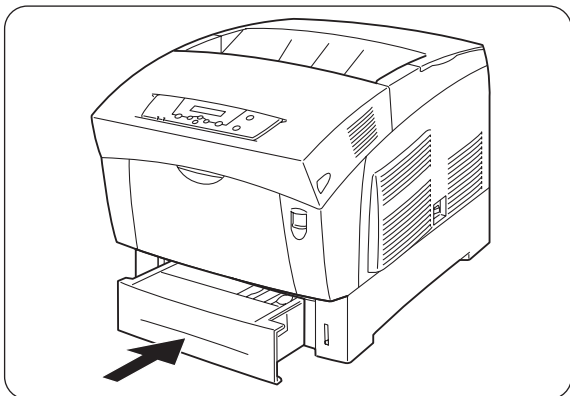
- ⑤ Remove the paper from the paper tray, and store it in a dry, dust-free place.



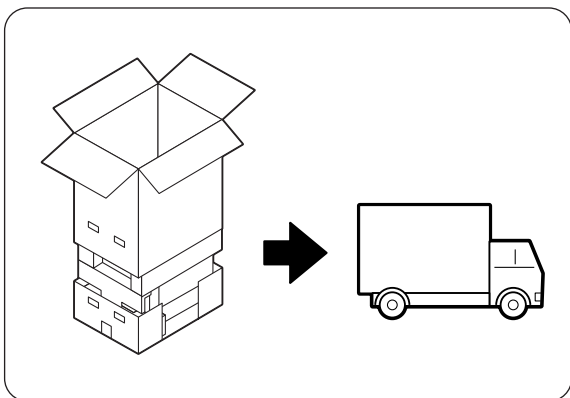
- ⑥ Insert the cardboard spacers in the tray as illustrated on the left.




- ⑦ Hold the paper tray with both hands, align it with the opening in the printer and gently insert it.



- 8 Push the paper tray completely back into the printer.
Do not move the printer for 20 minutes. This is to allow the printer's fuser to cool down before moving



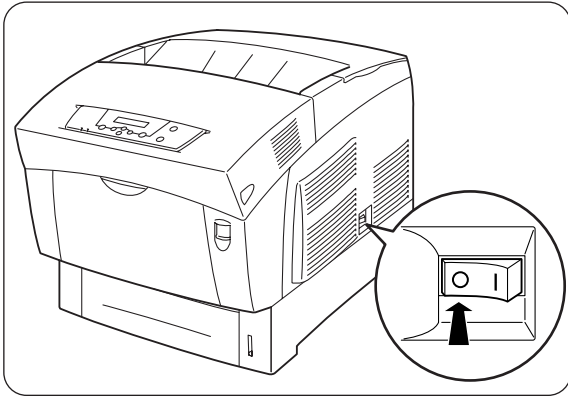
- 9 To protect the printer from damage, pack it in a box before transporting it.

LOOK  After moving the printer to the new location, you need to readjust the color registration. For details, refer to "1.4.7 Adjusting Color Registration."

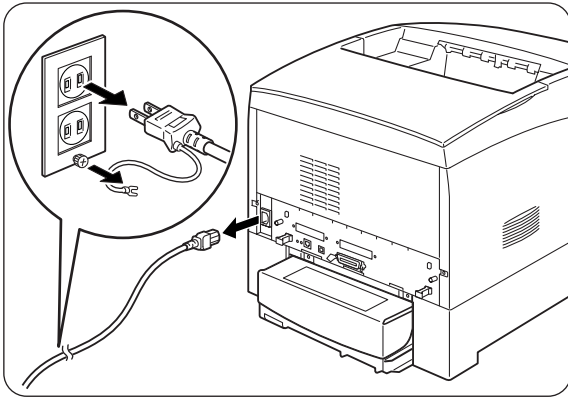
8.8

Storing the Printer

Follow the procedure below when you do not need to use the printer for a long period.



- 1 On the right side of the printer, press [O] on the power switch to turn off the printer.



- 2 Disconnect the power cord, interface cable, and any other cables.

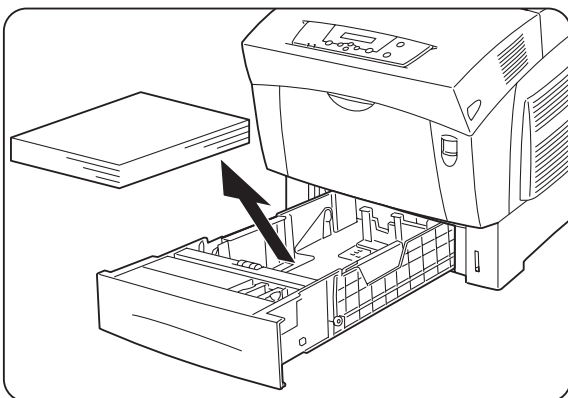
Warning

To prevent electric shock, never touch the power plug with wet hands.


CAUTION

When removing the power cord, make sure that you pull the plug and not the cord. Pulling the cord can damage it, which can lead to fire or electrical shock.

LOOK  The illustration on the left shows the 100V power cord.



- 3 Remove any remaining paper from the paper tray and store it in a dry, dust-free place.

LOOK  If the paper proves difficult to remove, pull the tray completely out of the printer and try removing the paper again.

Appendix

A	Introduction to Options and Consumables	212
B	Control Panel Menu List.....	220
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D	Life Span of Consumables.....	228
E	Obtaining Product Information.....	229
F	Precautions and Limitations	232
G	Glossary	232

A

Introduction to Options and Consumables

The following options are available for this printer. To order any of these options, contact your Tally service or dealer.

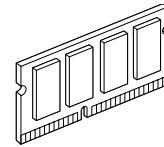
A.1 Options and Installation

••• Additional Memory (128/256 MB)

It may be necessary to expand the memory of your printer if you want to print color documents containing complex graphic layouts or large amounts of color image data.

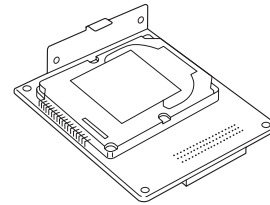
Additional memory cards compatible with the printer must be of the following type:

- 144 pin SO-DIMM



••• Hard Disk Kit

The optional hard disk enables high-speed sorting, when you print multiple copies of a document.

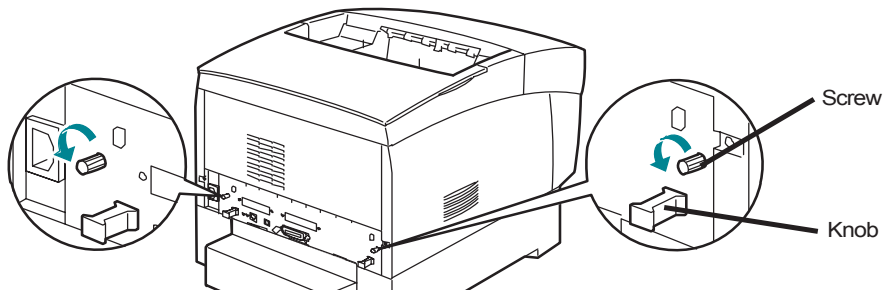


A.1.1 Installing Optional Accessories

⚠ CAUTION

Switch off the machine before connecting the interface cable and any option. Connecting the cable or optional product with a live machine can cause electric shocks.

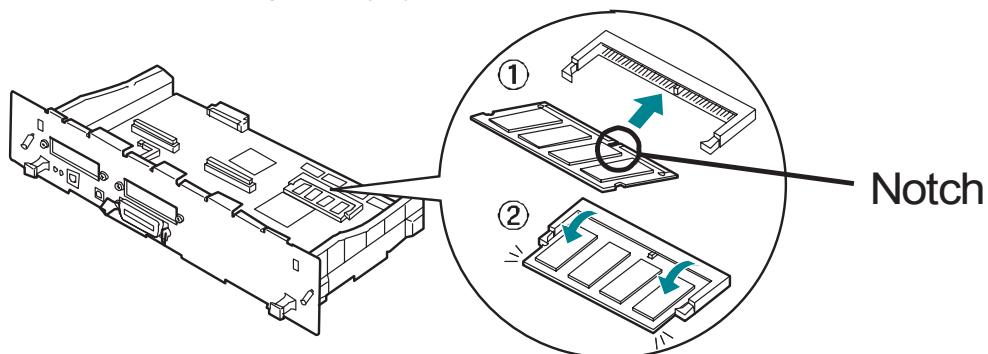
- 1 Power the printer off and remove the power and interface cables.
- 2 Loosen the two screws on the interface board located on the rear of the printer.



- 3 Grasp the handles on the interface board and slowly pull it towards you, then lay it on a desk or table.

Additional Memory

- 4 Grasp both edges of the additional memory and align the notches in the memory with the protrusions in the slot.
- 5 Insert the memory diagonally (①), then tilt it toward the interface board until it clicks into place (②).



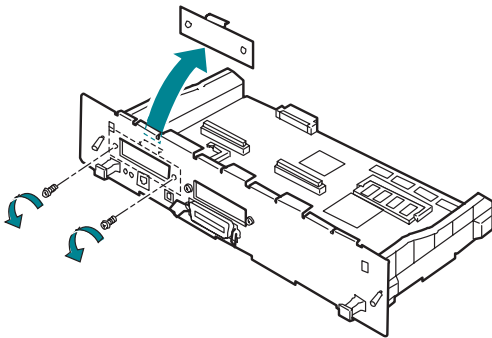
Note

To remove the memory, open the retaining clips on both sides of the memory by turning them outward, then grasp both edges of the memory and pull it out straight.

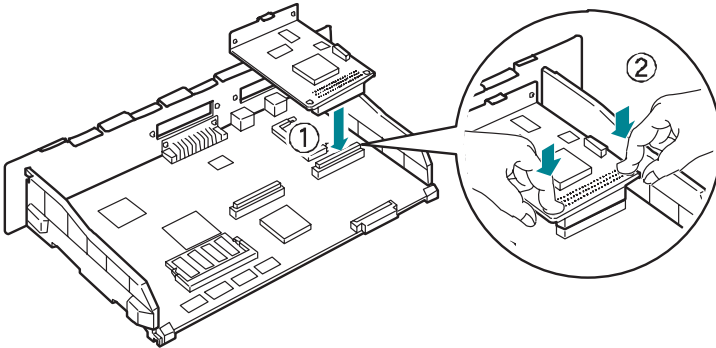
If you will not be installing the network expansion card or hard disk, go to step 11.

Network Expansion Card

- 6** Remove the two screws from the expansion card cover, then remove the cover. After removing the cover, store it in a safe place.



- 7** Insert the network expansion card connector into the connector on the interface board.

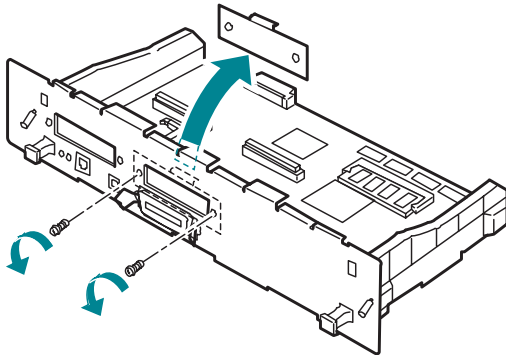


- 8** Fasten the network expansion card using the screws removed in step 6.

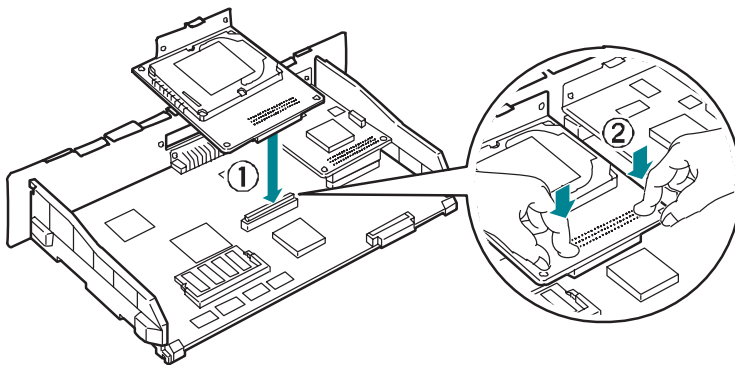
If you will not be installing the hard disk, go to step 11.

Hard Disk Kit

- 9** Remove the two screws from the expansion card cover, then remove the cover. After removing the cover, store it in a safe place.

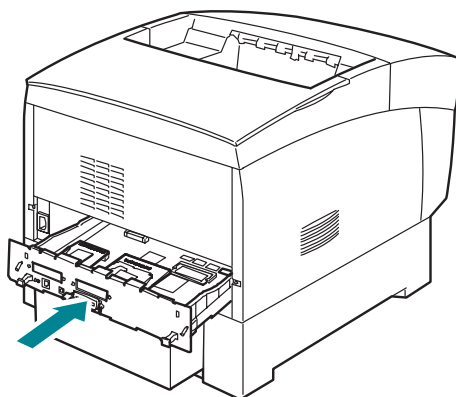


- 10** Insert the hard disk connector into the connector on the interface board.



- 11** Fasten the hard disk using the screws removed in step 9.

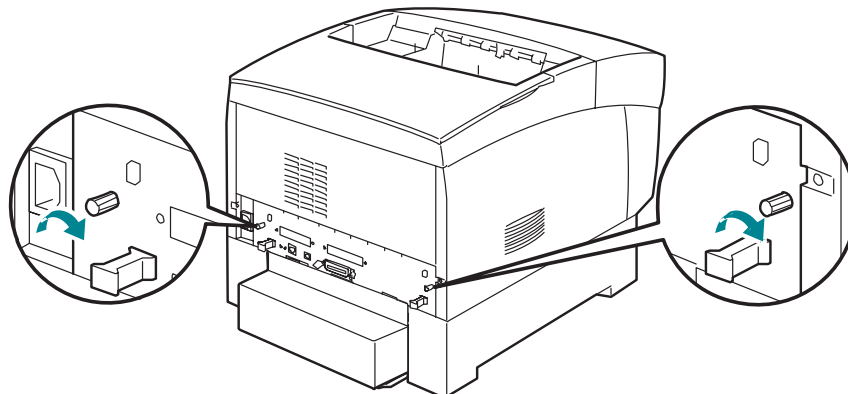
- 12** Gently push the interface board into the printer.



LOOK

Do not exert excessive force.

13 Secure the interface board using the two screws.



14 Reinsert the power cable and power the printer on

A.1.2 Confirming Settings

To confirm whether the printer is set up correctly, you can print the Printer Settings list.

- 1** Power the printer on
- 2** Check that A4-size paper is set in the paper tray.
- 3** Press the Menu button.
The following message appears.

Menu
1:System

- 4** Press the ▼ button three times.
The following message appears.

Menu
4:Report/List

5 Press the Set/Eject button three times.
The Printer Settings list is printed.
Confirm the following items:

- When additional memory is installed:

General: Memory Capacity 192 Mbyte or 320 Mbyte

- When a network expansion card is installed:

Printer Options: Extra Network Card On

- When a hard disk is installed:

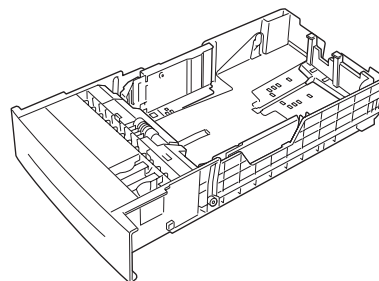
Printer Options: Hard Disk On

- When a 2 tray module is installed:

Printer Options: 2-Tray Module

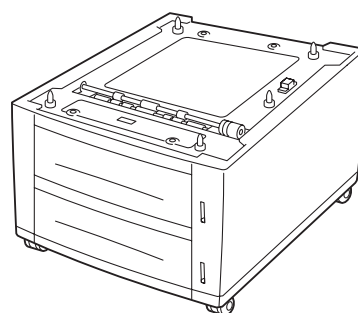
●●● 500sheets Cassette

This is the same as the standard tray supplied with the printer but is also available separately.



●●● Tray Module (1 or 2 cassettes)

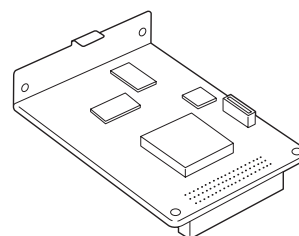
This option allows you to attach an additional 1 or 2 trays to the printer. Each tray of the module holds up to 500 sheets of paper. When installed, the trays become the printer's tray 2 or tray 2 and tray 3. To install the tray module, refer to the Tray Module Installation Guide (1 or 2 cassettes).



●●● Network Expansion Card

The printer as standard supports TCP/IP. Installing a network expansion card also allows you to print in NetWare, SMB, or EtherTalk networks.

For details about configuring the printer for use on a network, refer to "1.2 Configuring the Printer" or the Network User Guide.



●●● Emulation PDL (PostScript3 Kit)

You can use the machine as a PostScript printer by installing the PostScript3 Kit on the interface board.

For details, please refer to the "Postscript User Guide (PostScript3 Kit).

A.2 Consumables

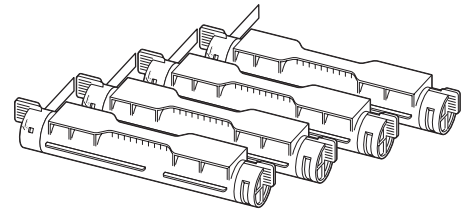
LOOK

The following consumables are made exclusively for use with this printer. They cannot be used with other printers.

••• Toner Cartridges

The printer uses four toner cartridges: black, yellow, magenta, and cyan.

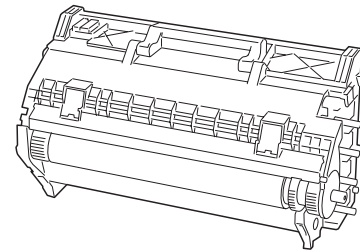
For the installation procedure, refer to "8.1.2 Replacing Toner Cartridges".



••• Drum Cartridge

Consists of the light-sensitive drum, the developer and the transfer roller.

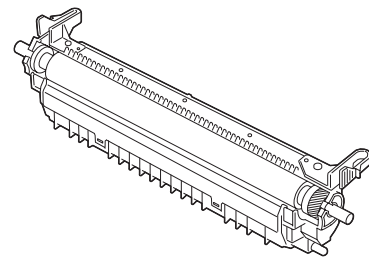
For the installation procedure, refer to "8.2.2 Replacing the Drum Cartridge".



••• transfer roller

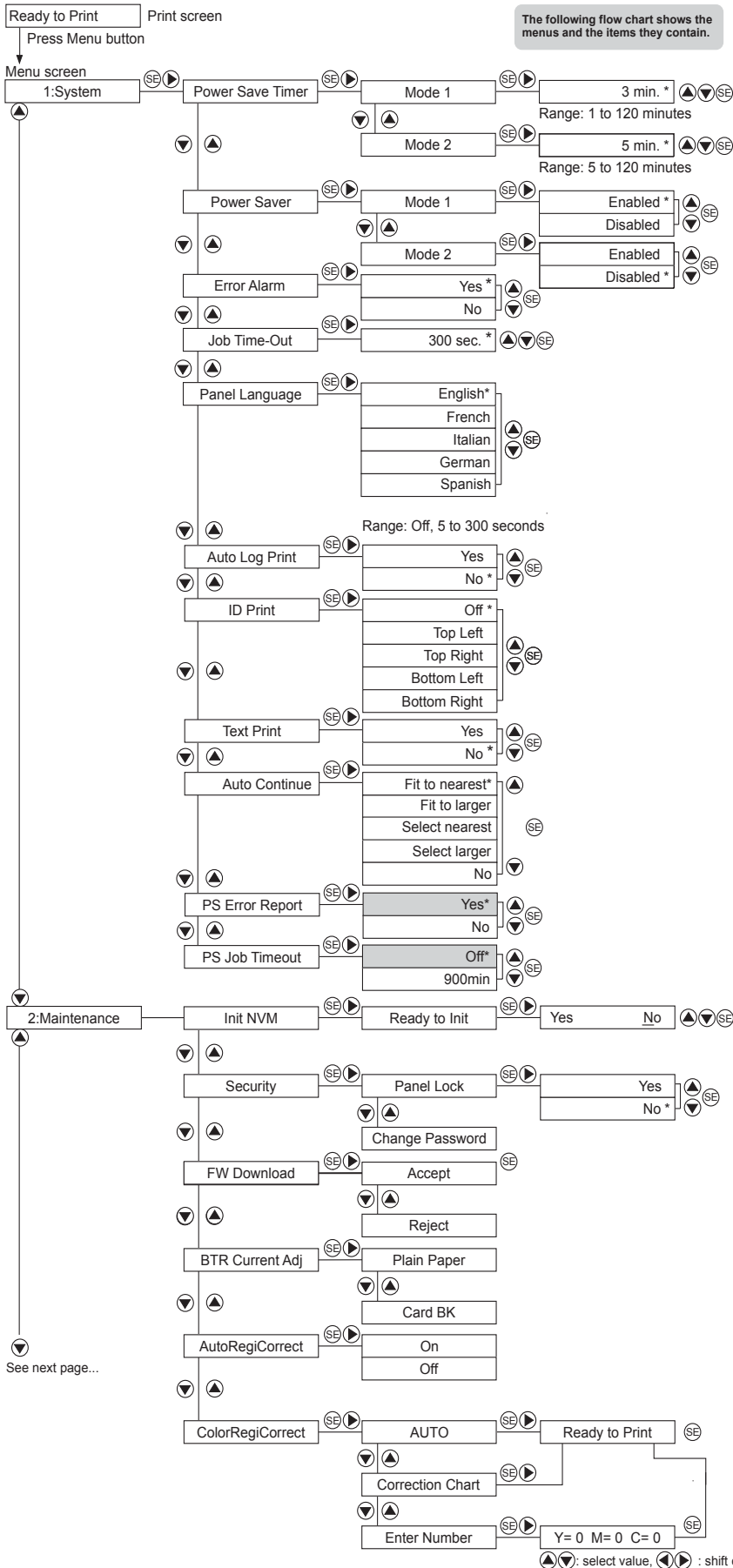
The transfer roller consists of a transfer roller and a transfer roll collection box.

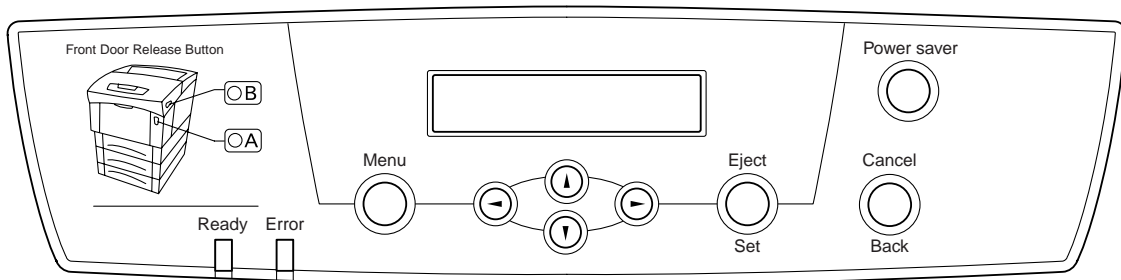
For the installation procedure, refer to "8.3.2 Replacing the Transfer Roller".



B

Control Panel Menu List



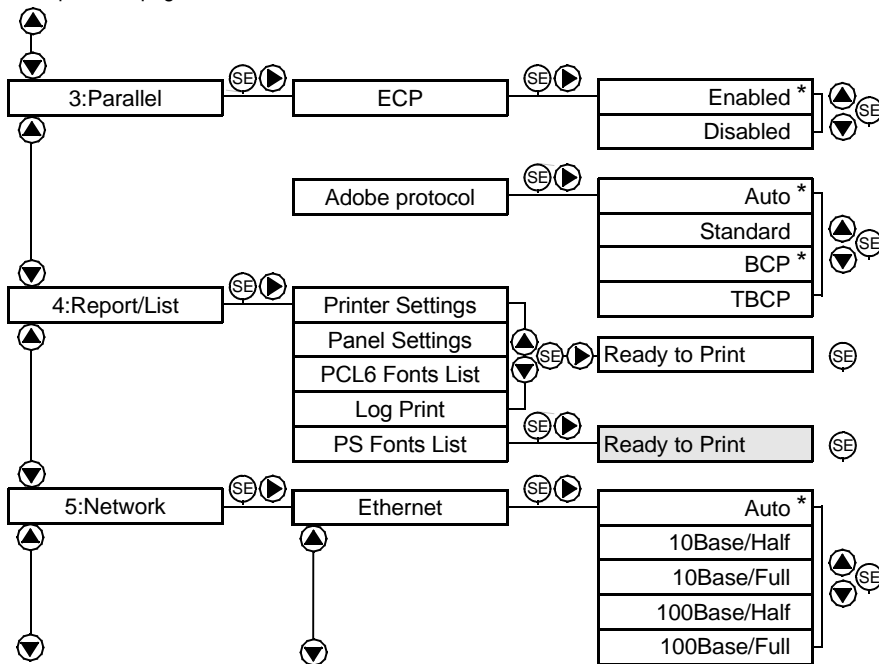


Symbols

	<p>Press the ▲ ▼ ◀ ▶ buttons.</p>	<p>Press the ▲ and ▼ buttons to move between menus and items on the same level. Pressing the ▲ button moves to the previous menu or item. Pressing the ▼ button advances to the next menu or item. Press the ◀ and ▶ buttons to switch to different menu levels and move the cursor () between parameters. Pressing the ▶ button in a menu moves the menu one level down. Pressing the ◀ button moves the menu one level up.</p>
	<p>Press the Set/Eject button.</p>	<p>Moves to the next level. Also, press this button to set a parameter. (When the parameter is set, "*" appears next to it.)</p>

- Pressing the Cancel/Back button returns to the preceding menu or item.
- To exit the menu screen, press the Menu button.
- "*" or "_" indicate defaults.
- To reset defaults, press the ▲ and ▼ buttons simultaneously.

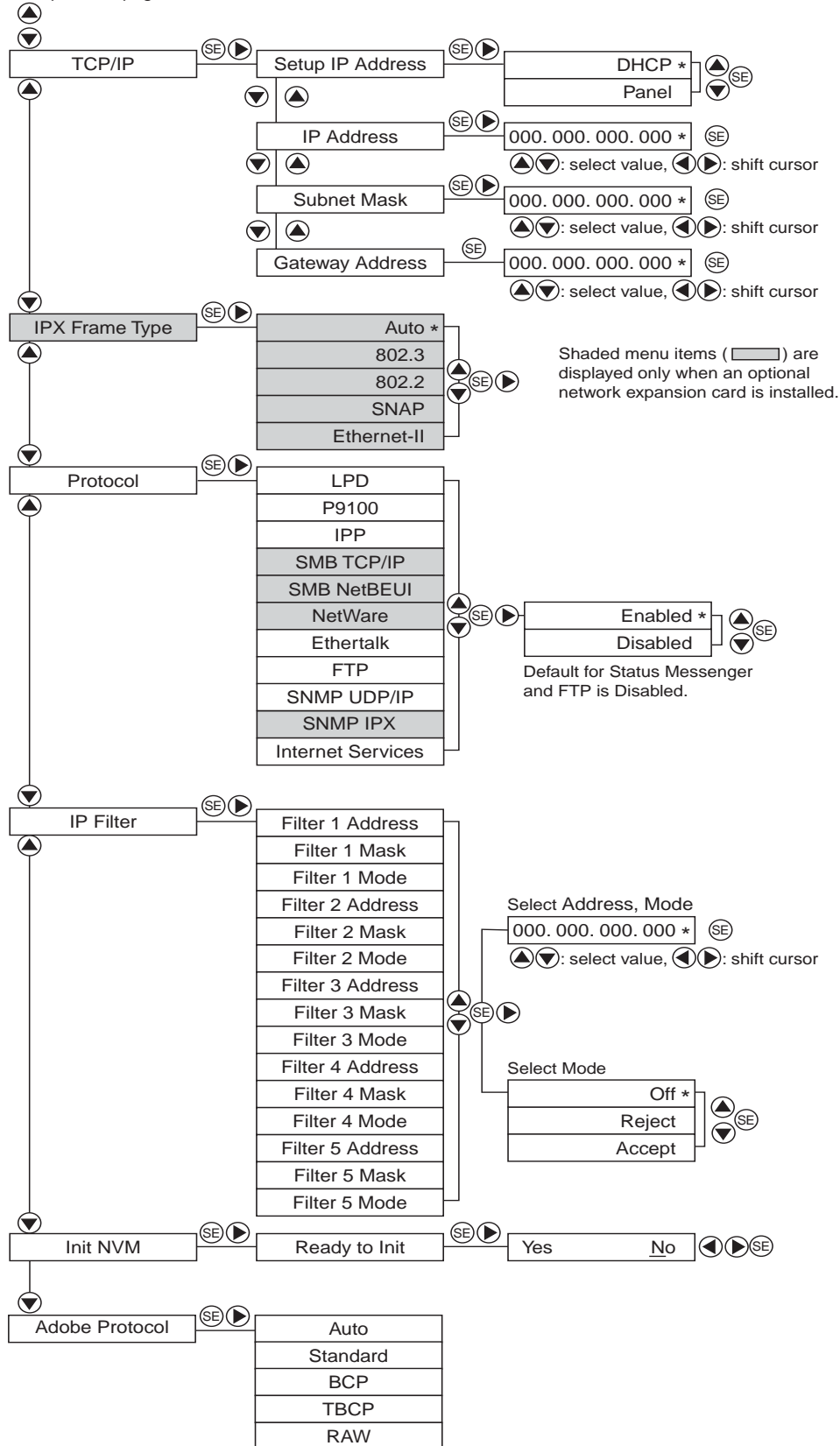
...from previous page

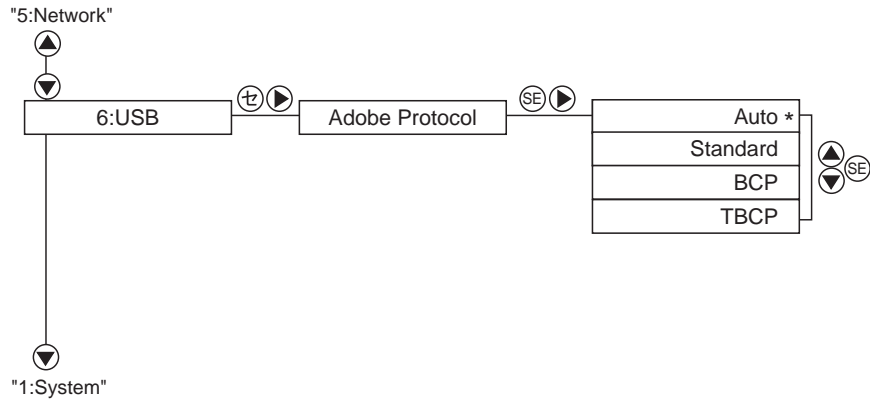


See next page...



...from previous page







Specifications

C.1 Printer Specifications

Unit Type Color Page Printer

Print Method Semiconductor laser beam scanning

Continuous Print Speed (Unit:Pages/min):

Paper type	Full speed/one-sided printing (600 dpi)		Full speed/duplex printing (600 dpi)	
	Letter (portrait)	A4 (portrait)	Letter (portrait)	A4 (portrait)
Plain paper	26.0	24.0	15.4	15.1
Cardboard ($\leq 162 \text{ g/m}^2$)	—		—	
Cardboard ($> 162, \leq 216 \text{ g/m}^2$)				
Transparency, label sheets				
Envelopes, postcards				

* Full speed: The highest possible speed

Paper type	Half speed/one-sided printing (600/1200 dpi)		Half speed/duplex printing (600/1200 dpi)	
	Letter (portrait)	A4 (portrait)	Letter (portrait)	A4 (portrait)
Plain paper	13.0	12.0	7.9	7.7
Cardboard ($\leq 162 \text{ g/m}^2$)				
Cardboard ($> 162, \leq 216 \text{ g/m}^2$)			—	
Transparency, label sheets				
Envelopes, postcards	13.0			


* Half speed: Half the maximum print speed

Warm-up Time Within 30 seconds after the reception of a print job request (22°C, 55% humidity)

Resolution 1,200 dots/25.4 mm (1,200 dpi), 600 dots/25.4 mm (600 dpi)

Paper Feed Automatic/manual

Feed trays:

Feed tray type	Paper size	Number of sheets (plain paper)
Multi purpose tray	A5, B5, A4, Executive, Letter, Legal 13", Legal 14" (width: 88.9 to 215.9 mm; length: 139.7 to 900 mm)	100 sheets
Standard tray (tray 1)	A5, B5, A4, Executive, Letter, Legal 13", Legal 14"	500 sheets
Tray module (1 or 2 cassettes) (trays 2 and 3)		LOOK  The maximum number of A5 sheets is 350.

Output methodFace down

Output tray:

Output tray type	Paper type	Number of sheets
Face down tray	All paper types suitable for use with this machine.	250 sheets

Noise levelStandby: 36.5 dB (A) or less
 Operating (single-sided printing): 55 dB (A) or less
 Operating (Duplex printing): 55 dB (A) or less

Power Supply100-127V±10% (90-140V)
 50/60±3Hz
 220-240V±10% (198-264V)
 50/60±3Hz

Maximum power consumption Operating: 900 W
 Standby: 45 W

Operating environment:Temperature: 15-28°C
 (For guaranteed image quality) Humidity: 20-70% (no condensation)

Dimensions (WxDxH)439 × 590* × 445 mm
 * With the multi purpose tray retracted.

Weight 34.9 kg (with the paper tray)

C.2 Network Specifications

Common Specifications

Supported Standards	Ethernet Version 2.0 IEEE 802.3
Network Protocols	TCP/IP, SMB ^(*1) , IPX/SPX (NetWare) ^(*1) , AppleTalk (EtherTalk) ^(*2)
Interface	100Base-TX, 10Base-T

TCP/IP Specifications

Supported Operating Systems	Windows 95, Windows 98, Windows Me, Windows NT 4.0, Windows 2000, Windows XP
Frame Type	Ethernet_ II (Ethernet II)
Print Protocols	LPD(LPR), Port 9100 (Available in Windows 95, Windows 98, Windows Me, Windows 2000 and Windows XP), IPP (Available in Windows Me, Windows 2000 and Windows XP)
Management Protocols	http, SNMP

SMB Specifications^(*1)

Supported Operating Systems	Windows 95, Windows 98, Windows Me, Windows NT 4.0, Windows 2000, Windows XP
Print Protocols	SMB (TCP/IP), SMB (NetBEUI)

NetWare Specifications^(*1)

Network Operating Systems	NetWare 4.1/4/11/4.2/5.1
Frame Type	Ethernet_ II (Ethernet II), Ethernet_802.3 (IEEE 802.3), Ethernet_802.2 (IEEE 802.2), Ethernet_ SNAP (IEEE 802.1 SNAP)
Print Protocols	Print server mode Remote server mode
Management Protocols	SNMP

AppleTalk (EtherTalk) Specifications^(*2)

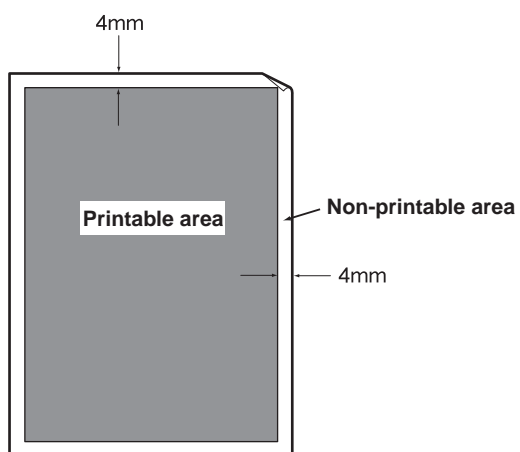
Supported Operating Systems	Mac OS 8.1-9.2.2, Mac OS X 10.1-10.2.4
Frame Type	Ethernet_ SNAP (IEEE 802.1 SNAP)
Printer Type	Laser Writer

(*1) Optional network expansion card required.

(*2) Optional network expansion card and PostScript3 kit required.

C.3 Printable Area

When using A4, 8.5 × 14" (Legal) or smaller.



- "Printable area" refers to the area on a page where printing is possible.
- "Non-printable area" refers to the area (the edges) on the page where printing is not possible.

D

Life Span of Consumables

••• Life Span of Consumables (in printable pages)

Consumable	Number of printable pages*
Black toner cartridge	About 9,000 pages
Yellow toner cartridge	About 6,000 pages
Magenta toner cartridge	About 6,000 pages
Cyan toner cartridge	About 6,000 pages
Drum cartridge	About 30,000 pages
Transfer roller (Includes waste toner collection box)	About 25,000 pages
Fuser unit	About 100,000 pages
Paper feed roller	About 100,000 pages

*. The numbers of printable pages correspond to the printing conditions in the table below. The actual number of printable pages depends on the content of printed material, the paper size, and the operating environment.

Paper size	A4 portrait
Coverage	5%
Monochrome/color ratio	1:1
Number of pages in a single print run	4

E

Obtaining Product Information

The following information is provided on our internet home page:

- Latest product information
- Latest software
- Limitations of applications

URL: <http://www.Tally.com>

LOOK

The company will not be responsible for any communications fee incurred.

F

Precautions and Limitations

••• Precautions and Limitations Relating to the Printer

Item	Explanation
Sound of movement	The sound of movement is pronounced when this printer is installed next to desks. Consider the surroundings when setting up the printer.
Paper wrinkles are generated when printing documents having high image density in two-sided mode.	When printing documents containing highly dense images to both sides of the paper, wrinkles can be generated, depending upon the type of paper you use. Print to thicker paper.
Poor storing heavy weight paper on the exit tray.	Depending on the type of paper, it may curl a great deal when fixing the image. For that reason paper may not be stored properly in the exit tray. Use paper with a weight of less than 160 g/m ² .

••• Notes About Printing

Item	Explanation
Thin lines don't print Thin lines are printed with different colors. Dotted lines are printed	Print with one of the following methods: This may result in correct printing. <ul style="list-style-type: none"> • Make thin lines thicker. • Specify a darker color. • Do not use yellow lines (particularly on a white background) if possible. It is recommended that you use a different color. • Select the Complementary Color Conversion check box with the Detailed Settings (for Windows) in the printer driver Graphics tab.
Shaded areas are printed with different colors. Patterns disappear. Patterns are printed with different colors. Shaded areas are marred with printed.	Make the following settings with the printer driver to print. This may print correctly. <ul style="list-style-type: none"> • Set Image Types to Transparencies in the Graphics, Document Type tab (Windows). • Select the Complementary Color Conversion check box with the Detailed Settings in the Graphics tab (for Windows).
There are color variations in the same object.	Depending on the application program you use, one object may be separated into several and graphics in some locations may be sent to the printer as an image for a different location. Because this printer converts to the appropriate colors according to each graphic and image, color levels occur according to the differences in the results.
Printed with completely different colors that the specified graphic (blues are yellow, light blues are red, there are blanks, etc.).	This symptom occurs when set to Super Fine in Document Types in the Graphics tab (Windows) in the printer driver. Set the Strict Raster Operation to On with the Graphics tab (for Windows).

Item	Explanation
When printing photo images after printing a large volume of data having the same image in the same place, such as the lines of a table, those images are printed faintly in those places where images of the previous data existed.	If there are ghosts on the drum, the images from previous data may also be printed. Either print a different document or temporarily stop printing. Try reprinting after allowing the printer to sit unused for a while. Also, outputting several hundred pages of the same document can place a load on the printer, which should be avoided.
When ghosts occur in the characters and lines (particularly when printing in environments having low temperature and low humidity).	Use at room temperature. In winter, allow the room to warm up before printing. If the problem persists, reprint with a color with which the ghost image is not obvious.
Ruined printing when using reduced printing	Depending on the document to print, characters and patterns may be blotted with outputting with reduced printing.

G

Glossary

10Base-T

An IEEE802.3-compliant 10-Mbps base band twisted pair cable.

100Base-TX

An improved version of 10Base-T sometimes called "fast Ethernet". With a speed of 100 Mbps, it is a vast improvement over the 10-Mbps speed of 10Base-T.

Address

Unique identification assigned to individual nodes (computer terminals, printers, etc.) on a network. Addresses are also used to identify separate memory areas.

Bi-directional communications

Communications that involve sending and receiving information between 2 devices. With bi-directional communication, computers can send data to printers and the printer can send status data back to the computer.

Browser

Software used to access information from a Web server on your computer. Commonly used browsers include Netscape® Communicator and Microsoft® Internet Explorer.

CD-ROM

A compact disc (CD) that contains data such as programs or images to be used with computers.

Click

The act of pressing and releasing the left mouse button once without moving the mouse. In this manual, "click" means pressing the left mouse button. Pressing the right mouse button is referred to as "right-click".

Another common mouse operation is the "double-click". It refers to pressing the left

mouse button twice in quick succession without moving the mouse.

Client

On a network, computers called "servers" collect, store, and distribute information to other network computers called "clients" upon receiving requests from clients.

DHCP

"Dynamic Host Configuration Protocol". A protocol used to automatically assign IP addresses to DHCP clients from a DHCP server.

DNS

"Domain Name System". DNS is a service that creates IP addresses from host names on the Internet.

dpi

"Dots per inch". A unit used to describe printing resolution in terms of the number of dots printed in one inch (25.4 mm).

Drive

A device that reads from and/or writes to disks. Several types of disk drives are in common use: floppy disk drives, CD-ROM drives, and hard disk drives.

EtherTalk

One of the protocols developed for use with Macintosh "AppleTalk" network software.

Font

A set of characters of the same typeface (such as Times New Roman), style (such as italic), and weight (such as bold). A font consists of all the characters available in a particular style and weight for a particular typeface.

FTP

"File Transfer Protocol". A protocol used for communicating files and data in a TCP/IP system.

Full Color

The maximum number of different colors that computer screens can display. Approximately 16,770,000 colors.

G.S.M (g/m²)

This is a measure of the substance of paper expressed in grams per square meter, which does not depend on the number of sheets in the ream.

Help

On-screen explanations about software or hardware.

HTTP

"Hyper Text Transfer Protocol". A protocol used to transfer data from Web servers on the Internet.

Install

The action required to load software or fit hardware into computers or peripherals to enable use. "Install" can refer to the process of either loading software into a computer, or fitting hardware such as a network expansion card into a printer.

In this manual, "Install" refers to both the installation of software and hardware.

Interface

Refers to the point where different systems interact with one another. "Interface" is often used to describe the communications links between computers or systems that allow users to interact with computers. "Interface" can also refer to the nature of an interface, in particular its electronic specifications.

Interface Cable

A cable connected between different pieces of equipment through which communications are carried.

Interface cables include parallel and USB cables used to connect printers and other peripherals to a computer, as well as Ethernet cables used to connect peripherals to a network.

IP Address

A TCP/IP address used on a network. IP addresses consist of numbers (base 10) separated by decimal points.

IPP

"Internet Printing Protocol". A printing protocol that uses HTTP.

Job

A specified amount of processing performed as a unit by a computer. For example, when a computer processes a file for printing, it is called a "print job". Printing is managed in units called "jobs", regardless of whether the job is printed or cancelled.

Legal

A standard paper size. 14 x 8.5" (approximately 356 x 216 mm). Widely used in the United States for contracts and other legal documents.

Letter

A standard paper size. 11 x 8.5" (approximately 279 x 216 mm). Widely used in the United States for business documents.

Local Printer

In this manual, "local printer" refers to a printer connected to a computer through a parallel or USB cable.

Log on

The process of accessing resources in a computer system, such as printers or hard disks on a network. Conversely, closing the access is referred to as "logging off".

Multi-Up

A function that prints several pages of a document on one page. The printer is capable of printing pages with 2, 4, 8, 16, and 32 up.

NetWare®

A network operating system developed by Novell Inc.

NetWare File Server

The specialized server required in a NetWare system. Server software operates on the server and client software operates on client computers.

Network Path

The path to a particular computer or file on a network. Network paths are often specified using server names and so on.

Network Printer

In this manual, "network printer" refers to a printer connected to a network through an Ethernet cable.

NV Memory

"Non-volatile" random access memory. Stores configuration data even after the power is off.

OS

"Operating System". Software that controls the basic computer operations. The operating system is the foundation on which application software runs.

Parallel Interface

One of the methods available to transfer data to peripherals from a computer. Parallel interfaces allow the simultaneous transfer of multiple bit data. Printers are often connected to computers through parallel interfaces, such as the widely used Centronics parallel interface.

Plug and Play

In Windows OS, it is a reference to the ability of the computer system to automatically configure a device added to it.

Port

The point of connection between computers and peripherals through which data passes.

Port 9100

A network communications facility for sending data with Windows 2000 and Windows XP. Works with a standard TCP/IP port monitor. The TCP/IP Direct Print Utility can be used on Windows 95, Windows 98, and Windows Me with this printer.

Printer Driver

Software that converts data created with a program into a form that a printer can interpret.

Print Queue

A place in a computer's memory where print data is stored or queued until it can be sent to the desired printer for printing.

Protocol

Convention that allows different computers and peripherals to communicate with each other. An arranged procedure for transferring data between hardware or between computers across a network.

Resolution

Describes image quality in terms of detail and clarity. Usually expressed in dots per inch (dpi). The higher the resolution, the finer the image (image details become clearer).

Server

A network computer that collects, stores, and distributes information to other network computers or peripherals. Computers that request information from the server are called "clients".

Sort

When printing multiple copies of a document, the sort function collates the document as it is printed out. For example, pages are printed in the order 1,2,3...1,2,3...

Software

Computer programs; instructions that make hardware work. Two main types of software are system software (operating systems) and applications.

SMB

"Server Message Block". A network communications facility developed for use on Windows networks (Microsoft network). Works with Windows 95, Windows 98, Windows Me, Windows NT 4.0, Windows 2000, and Windows XP.

SNMP

A protocol used to control network equipment through the network. Consists of the SNMP Manager software (installed at the control end) and SNMP Agent software (installed at the controlled end).

Software

Software packages that people use for work or pleasure on their computers. Software sold on today's market includes programs such as word processors, spreadsheets,

graphic editing programs, database programs, and many more.

TCP/IP

A protocol developed by DARPA (Defense Advanced Research Project Agency Network). This is the most common protocol on the Internet. Machines ranging from personal to large-scale computers use it.

Uninstall

Removing software installed on a computer.

USB

"Universal Serial Bus". A method used for transferring data between the computer and peripheral devices. USB supports hot plugging, which greatly simplifies connecting peripherals, because you can connect equipment while your computer is on.

Web Page

Screens displayed on the computer using a Web browser are referred to as Web pages in this manual.

WINS

"Windows Internet Name Services". A service that creates IP addresses from computer names.

Wizard

Program used to install other software on a computer.

WWW

"World Wide Web". The Internet. A worldwide service that providing for the publication and access of Web sites.

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