



# PRINTER INTERFACE UNIT TYPE510



## Operating Instructions Printer Reference 2



- 
- 1 Setting Up the Printer Driver and Canceling a Print Job
  - 2 Uninstalling the Printer Driver
  - 3 Troubleshooting
  - 4 Using the Control Panel
  - 5 Appendix

## Introduction

This manual describes detailed instructions on the operation and notes about the use of this machine. To get maximum versatility from this machine all operators are requested to read this manual carefully and follow the instructions. Please keep this manual in a handy place near the machine.

## Important

Contents of this manual are subject to change without prior notice. In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating the machine.

## Warning:

Use of controls or adjustment or performance of procedures other than those specified in this manual might result in hazardous radiation exposure.

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The proper names of the Windows operating systems are as follows:

- The product name of Windows® 95 is Microsoft®Windows® 95
- The product name of Windows® 98 is Microsoft®Windows® 98
- The product name of Windows® Me is Microsoft®Windows®Millennium Edition (Windows Me)
- The product name of Windows® XP are as follows:  
Microsoft®Windows® XP Professional  
Microsoft®Windows® XP Home Edition
- The product name of Windows® 2000 are as follows:  
Microsoft® Windows® 2000 Advanced Server  
Microsoft® Windows® 2000 Server  
Microsoft® Windows® 2000 Professional
- The product name of Windows® NT are as follows:  
Microsoft® Windows NT® Server 4.0  
Microsoft® Windows NT® Workstation 4.0
- Microsoft® Windows NT® Workstation operating system Version 4.0

## Notes:

Some illustrations in this manual might be slightly different from the machine.

Certain options might not be available in some countries. For details, please contact your local dealer.

# TABLE OF CONTENTS

Manuals for This Machine .....	1
How to Read This Manual .....	2

## 1. Setting Up the Printer Driver and Canceling a Print Job

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<b>Accessing the Printer Properties .....</b>	<b>3</b>
Windows 95/98/Me - Accessing the Printer Properties .....	3
Windows 2000/XP - Accessing the Printer Properties .....	4
Windows NT 4.0 - Accessing the Printer Properties .....	6
Macintosh - Setting Up for Printing .....	7
<b>Canceling a Print Job .....</b>	<b>9</b>
Windows - Canceling a Print Job .....	9
Macintosh - Canceling a Print Job .....	10

## 2. Uninstalling the Printer Driver

---

<b>Uninstalling the Printer Driver .....</b>	<b>11</b>
Windows 95/98/Me - Uninstalling the Printer Driver.....	11
Windows 2000/XP - Uninstalling the Printer Driver.....	11
Windows NT 4.0 - Uninstalling the Printer Driver.....	13
Mac OS - Uninstalling the PostScript 3 Printer Driver.....	13
Mac OS X - Uninstalling the PostScript 3 Printer Driver .....	13

## 3. Troubleshooting

---

<b>Error &amp; Status Messages on the Display Panel .....</b>	<b>15</b>
Machine Status and Configuration .....	19
<b>Printer Does Not Print .....</b>	<b>23</b>
<b>Other Printing Problems .....</b>	<b>26</b>

## 4. Using the Control Panel

---

<b>Menu Chart .....</b>	<b>29</b>
Accessing the Printer Features .....	31
<b>Paper Input Menu.....</b>	<b>32</b>
Paper Input Parameters .....	32
Changing the Paper Input Menu .....	33
<b>List/Test Print Menu.....</b>	<b>34</b>
List/Test Print .....	34
Printing a Configuration Page .....	34
Interpreting the Configuration Page .....	35
<b>Maintenance Menu.....</b>	<b>37</b>
Maintenance Menu Parameters .....	37
Changing the Maintenance Menu .....	38
<b>System Menu.....</b>	<b>42</b>
System Parameters.....	42
Changing the System Menu.....	45

- Host Interface Menu.....47**
  - Host Interface Parameters .....47
  - Changing the Host Interface Menu .....51
- PCL Menu .....53**
  - PCL Parameters.....53
  - Changing the PCL Menu.....55
- Language Menu.....56**
  - Changing the Language Menu.....56

**5. Appendix**

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- Collate .....57**
- Specifications.....58**
  - Options.....59
- INDEX.....62**

# Manuals for This Machine

The following manuals describe the operational procedures and maintenance of this machine.

To enhance safe and efficient operation of this machine, all users should read and follow the instructions carefully.

## ❖ **PRINTER INTERFACE UNIT TYPE510 Printer Reference 1**

Describes system settings, procedures and functions for using the machine as a printer.

## ❖ **PRINTER INTERFACE UNIT TYPE510 Printer Reference 2 (this manual)**

Describes procedures and provides information about using the machine as a printer. This manual is included as a PDF file on the CD-ROM labeled "Printer Drivers and Utilities".

## ❖ **Network Printing Guide Operating Instructions**

Describes procedures and provides information about setting up and using the machine as a printer in a network environment. We recommend you read this manual first. It is included as a PDF file on the CD-ROM labeled "Printer Drivers and Utilities" .

## ❖ **POSTSCRIPT3 INTERFACE UNIT TYPE510 Operating Instructions Supplement**

Describes menus and features you can set using the PostScript 3 printer driver. This manual is included as a PDF file on the CD-ROM labeled "Printer Drivers and Utilities".

### **Note**

- Printing with the PostScript 3 printer driver is available when the optional PostScript 3 Interface Unit is installed on your machine.

## ❖ **UNIX Supplement**

Provides information about setting up and using the machine as a printer in a UNIX environment. For UNIX printing information, please visit our web site or consult your authorized dealer.

# How to Read This Manual

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## Symbols

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In this manual, the following symbols are used:

 **WARNING:**

This symbol indicates a potentially hazardous situation which, if instructions are not followed, could result in death or serious injury.

 **CAUTION:**

This symbol indicates a potentially hazardous situation which, if instructions are not followed, may result in minor or moderate injury or damage to property.

\* The statements above are notes for your safety.

 **Important**

If this instruction is not followed, paper might be misfed, originals might be damaged, or data might be lost. Be sure to read this.

 **Preparation**

This symbol indicates the prior knowledge or preparations required before operating.

 **Note**

This symbol indicates precautions for operation, or actions to take after misoperation.

 **Limitation**

This symbol indicates numerical limits, functions that cannot be used together, or conditions in which a particular function cannot be used.

 **Reference**

This symbol indicates a reference.

[    ]

Keys and buttons that appear on the computer's display.

Keys that appear on the machine's display panel.

[    ]

Keys built into the machine's control panel.

Keys on the computer's keyboard.

# 1. Setting Up the Printer Driver and Canceling a Print Job

## Accessing the Printer Properties

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### Windows 95/98/Me - Accessing the Printer Properties

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#### Changing the default machine settings

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- 1** Click **[Start]** on the taskbar, point to **[Settings]**, and then click **[Printers]**.

The **[Printers]** window appears.

- 2** Click the icon of the machine whose default settings you want to change.

- 3** On the **[File]** menu, click **[Properties]**.

The **[Printer Properties]** dialog box appears.

- 4** Make any settings you require, and then click **[OK]**.

 **Note**

- With some applications, the printer driver's settings are not used, and the application's own settings are applied.

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#### Making machine settings from an application

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To make the machine settings for a specific application, open the **[Printer Properties]** dialog box from that application. The following example describes how to make settings for the WordPad application that comes with Windows 95/98/Me.

 **Note**

- The actual procedures you should follow to open the **[Printer Properties]** dialog box may vary depending on the application. For more information, see the documentation that comes with the application you are using.
- Any settings you make in the following procedure are valid for the current application only.

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

The **[Print]** dialog box appears.

- 2** Select the machine you want to use in the **[Name]** list box, and then click **[Properties]**.

The **[Printer Properties]** dialog box appears.

- 3** Make any settings you require, and then click **[OK]**.

- 4 Click [OK] to start printing.

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## Windows 2000/XP - Accessing the Printer Properties

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### Changing the default machine settings - Printer Properties

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#### Limitation

- Changing the setting of the machine requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you set up options, log on using an account that has Manage Printers permission.

- 1 Click [Start] on the taskbar, point to [Settings], and then click [Printers].

The [Printers] window appears.

#### Note

- In Windows XP Professional, access the [Printers and Faxes] window from [Start] on the taskbar.
- In Windows XP Home Edition, access the [Printers and Faxes] window by clicking [Control Panel] from [Start] on the taskbar. Then click [Printers and Other Hardware], and then [Printers and Faxes].

- 2 Click the icon of the machine whose default settings you want to change.

- 3 On the [File] menu, click [Properties].

The [Printer Properties] dialog box appears.

- 4 Make any settings you require, and then click [OK].

#### Note

- Normally you do not have to change the “Form to Tray Assignment” settings on the [Device Settings] tab in the PostScript 3 printer driver.
- Settings you make here are used as the default settings for all applications.

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### Changing the default machine settings - Printing Preferences Properties

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#### Limitation

- Changing the setting of the machine requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you set up options, log on using an account that has Manage Printers permission.

- 1 Click [Start] on the taskbar, point to [Settings], and then click [Printers].

The [Printers] window appears.

 **Note**

- In Windows XP Professional, access the **[Printers and Faxes]** window from **[Start]** on the taskbar.
- In Windows XP Home Edition, access the **[Printers and Faxes]** window by clicking **[Control Panel]** from **[Start]** on the taskbar. Then click **[Printers and Other Hardware]**, and then **[Printers and Faxes]**.

**2** Click the icon of the machine whose default settings you want to change.

**3** On the **[File]** menu, click **[Printing Preferences...]**.

The **[Printing Preferences Properties]** dialog box appears.

**4** Make any settings you require, and then click **[OK]**.

 **Note**

- Settings you make here are used as the default settings for all applications.

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### Making machine settings from an application

---

To make the machine settings for a specific application, open the **[Print]** dialog box from that application. The following example describes how to make settings for the WordPad application that comes with Windows 2000/XP.

 **Note**

- The actual procedures you should follow to open the **[Print]** dialog box may vary depending on the application. For more information, see the documentation that comes with the application you are using.
- Any settings you make in the following procedure are valid for the current application only.

**1** On the **[File]** menu, click **[Print...]**.

The **[Print]** dialog box appears.

**2** Select the machine you want to use in the **[Select Printer]** box.

Click the tab that you want to change its print settings.

 **Note**

- In Windows XP, click **[Preference]** to open the Printing Preference window.

**3** Make any settings you require, and then click **[OK]**.

**4** Click **[OK]** to start printing.

 **Note**

- In Windows XP, click **[Print]** to start printing.

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## Windows NT 4.0 - Accessing the Printer Properties

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### Changing the default machine settings - Printer Properties

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#### Limitation

- Changing the setting of the machine requires Full Control access permission. Members of Administrators, Server Operators, Print Operators, and Power Users groups have Full Control permission by default. When you set up options, log on using an account that has Full Control permission.

**1** Click **[Start]** on the taskbar, point to **[Settings]**, and then click **[Printers]**.

The **[Printers]** window appears.

**2** Click the icon of the machine whose default settings you want to change.

**3** On the **[File]** menu, click **[Properties]**.

The **[Printer Properties]** dialog box appears.

**4** Make any settings you require, and then click **[OK]**.

#### Note

- Normally you do not have to change the "Form to Tray Assignment" settings on the **[Device Settings]** tab in the PostScript 3 printer driver.
- Settings you make here are used as the default settings for all applications.

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### Changing the default machine settings - Default Document Properties

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#### Limitation

- Changing the setting of the machine requires Full Control access permission. Members of the Administrators, Server Operators, Print Operators, and Power Users groups have Full Control permission by default. When you set up options, log on using an account that has Full Control permission.

**1** Click **[Start]** on the taskbar, point to **[Settings]**, and then click **[Printers]**.

The **[Printers]** window appears.

**2** Click the icon of the machine whose default settings you want to change.

**3** On the **[File]** menu, click **[Document Defaults]**.

The **[Default Document Properties]** dialog box appears.

**4** Make any settings you require, and then click **[OK]**.

#### Note

- Settings you make here are used as the default settings for all applications.

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## Making machine settings from an application

---

To make the machine settings for a specific application, open the **[Printer Properties]** dialog box from that application. The following example describes how to make settings for the WordPad application that comes with Windows NT 4.0.

### Note

- The actual procedures you should follow to open the **[Printer Properties]** dialog box may vary depending on the application. For more information, see the documentation that comes with the application you are using.
- Any settings you make in the following procedure are valid for the current application only.

### **1** On the **[File]** menu, click **[Print]**.

The **[Print]** dialog box appears.

### **2** Select the machine you want to use in the **[Name]** list box, and then click **[Properties]**.

The **[Printer Properties]** dialog box appears.

### **3** Make any settings you require, and then click **[OK]**.

### **4** Click **[OK]** to start printing.

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## Macintosh - Setting Up for Printing

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### Making paper settings from an application

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### **1** Open the file you want to print.

### **2** On the **[File]** menu, click **[Page Setup]**.

The **[AdobePS Page Setup]** dialog box appears.

### **3** Make sure that the machine you want to use is shown in the **[Format for:]** box.

### Note

- In Mac OS X, this is called **[Paper Size]**.
- If the machine is not shown in the **[Format for:]** box, use the pop-up menu to display a list of available machines.

### Reference

The actual appearance of the Page Setup depends on the application you are using. See the documentation that comes with the Macintosh for more information.

**4** From the **[Paper:]** box, select the paper size.

**5** Make any settings you require, and then click **[OK]**.

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**1**

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## Setting up for printing from an application

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**1** Open the file you want to print.

**2** On the **[File]** menu, click **[Print]**.

The **[Printer Features]** dialog box appears.

**3** Make sure that the machine is selected in the **[Printer:]** box.

**4** Make any settings you require, and then click **[Print]** to start printing.

# Canceling a Print Job

## Windows - Canceling a Print Job

1

- 1 Double-click the printer icon on the Windows taskbar.

A window appears, showing all the print jobs that are currently queuing to be printed. Check the current status of the job you want to cancel.

- 2 Select the name of the job you want to cancel.

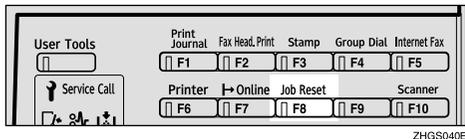
- 3 On the [Document] menu, click [Cancel Printing].

### Note

- In Windows XP, click [cancel] on the [Document] menu.
- In Windows 95/98/Me, 2000 or NT 4.0, you can also open the print job queue window by double-clicking the machine icon in the [Printers] window, and in Windows XP, the [Printers and Faxes] window.

- 4 Press the [Printer] key on the machine's control panel.

- 5 Press [Job Reset] on the control panel.



A message appears on the display panel indicating that the print job is being cancelled.

### Important

- When the machine is being shared by multiple computers, be careful not to accidentally cancel someone else's print job.

### Note

- This procedure cancels the print job that is being processed by the printer. In some cases, the printer may already be processing data for the next series of print jobs following the one currently being output. In this case, the next print jobs are also canceled when you press [Job Reset].
- A print job that contains a large volume of data may take considerable time to stop.

## Macintosh - Canceling a Print Job

1

### 1 Double-click the printer icon on the desktop.

A window appears, showing all the print jobs that are currently queuing to be printed. Check the current status of the job you want to cancel.

#### Note

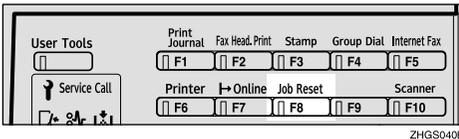
- In Mac OS X, start Print Center.

### 2 Select the name of the job you want to cancel.

### 3 Click the pause icon, and then click the trash icon.

### 4 Press the **[Printer]** key on the machine's control panel.

### 5 Press **[Job Reset]** on the control panel.



#### Important

- When the machine is being shared by multiple computers, be careful not to accidentally cancel someone else's print job.

#### Note

- You cannot stop printing data that has already been processed internally by the machine. Because of this, printing may continue for a few pages after you press **[Job Reset]**.
- A print job that contains a large volume of data may take considerable time to stop.

# 2. Uninstalling the Printer Driver

## Uninstalling the Printer Driver

This section describes how to uninstall the printer drivers. Actual procedures may vary depending on the operating system.

Follow the procedures below as appropriate.

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### Windows 95/98/Me - Uninstalling the Printer Driver

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- 1** Close all the applications that are currently running.
- 2** Click **[Start]** on the taskbar, point to **[Settings]**, and then click **[Printers]**.  
The **[Printers]** window appears.
- 3** Click the icon of the machine you want to remove.
- 4** On the **[File]** menu, click **[Delete]**.  
A confirmation dialog box appears.
- 5** Click **[Yes]** to uninstall the printer driver.

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### Windows 2000/XP - Uninstalling the Printer Driver

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#### Limitation

- Uninstalling a printer driver requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you uninstall a printer driver, log on using an account that has Manage Printers permission.

- 1** Close all the applications that are currently running.
- 2** Click **[Start]** on the taskbar, point to **[Settings]**, and then click **[Printers]**.  
The **[Printers]** window appears.

#### Note

- In Windows XP Professional, access the **[Printers and Faxes]** window from **[Start]** on the taskbar.
- In Windows XP Home Edition, access the **[Printers and Faxes]** window by clicking **[Control Panel]** from **[Start]** on the taskbar. Then click **[Printers and Other Hardware]** and then **[Printers and Faxes]**.

- 3** Click the icon of the machine you want to remove.

**4** On the **[File]** menu, click **[Delete]**.

A confirmation dialog box appears.

**5** Click **[Yes]** to uninstall the printer driver.

 **Note**

You can also uninstall the printer driver using the following procedure.

- Windows 2000
  - ① In the **[Printers]** window, click **[Server Properties]** on the **[File]** menu to display the **[Print Server Properties]** window.
  - ② On the **[Drivers]** tab, click the driver you want to remove, and then click **[Remove]**.
  - ③ Click **[Yes]**.
  - ④ Click **[OK]**.
- Windows XP
  - ① In the **[Printers and Faxes]** window, click **[Server Properties]** on the **[File]** menu to display the **[Print Server Properties]** window.
  - ② On the **[Drivers]** tab, click the driver you want to remove, and then click **[Remove]**.
  - ③ Click **[Yes]**.
  - ④ Click **[Close]**.

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## Windows NT 4.0 - Uninstalling the Printer Driver

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### ! Limitation

- ❑ Uninstalling a printer driver requires Full Control access permission. Members of the Administrators, Server Operators, Print Operators, and Power Users groups have Full Control permission by default. When you uninstall a printer driver, log on using an account that has Full Control permission.

- 1** Close all applications that are currently running.
- 2** Click [Start] on the taskbar, point to [Settings], and then click [Printers].  
The [Printers] window appears.
- 3** Click the icon of the machine you want to remove.
- 4** On the [File] menu, click [Delete].  
A confirmation dialog box appears.
- 5** Click [Yes] to uninstall the printer driver.

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## Mac OS - Uninstalling the PostScript 3 Printer Driver

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- 1** Drag the "AdobePS" file from the [Extensions] folder in [System Folder] to [Trash].
- 2** Drag the PPD file and plug-in file from the [Printer Descriptions] folder in the [Extensions] folder in [System Folder] to [Trash].

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## Mac OS X - Uninstalling the PostScript 3 Printer Driver

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- 1** Run Print Center.
- 2** Select the printer driver you want to uninstall in the Printer List window, and then click [Delete].



# 3. Troubleshooting

## Error & Status Messages on the Display Panel

Messages/Second messages	Description	Solution
Call Service: EC Power Off On /If Error Reoccur Call Service	An error has occurred in the printer.	First, turn the power switch off and then on. If the message appears again, contact your sales or service representative.
Change Setting Tray # /Paper Size: Paper Type:	The paper type and size setting on the tray differs from the setting on the driver.	Load { paper size and type } paper with the selected feed direction into tray. Printing will not automatically resume if the paper type, size and direction setting is incorrect. Make sure that the paper size, feed directions and paper type set in the printer driver and on the control panel are the same. There are two methods to resume printing. <ol style="list-style-type: none"><li>① Use the control panel to set the correct paper type, size and direction of the paper in tray.</li><li>② Press <b>[FormFeed]</b> and select the tray with the control panel.</li></ol>
Cannot Check Signal in Ad hoc	The signal strength for the wireless LAN cannot be checked because "Ad hoc" is selected in "Comm. Mode" for "IEEE 802.11b" in the Host Interface menu.	Change the Transmission mode to <b>[Infrastructure]</b> in the Host Interface settings.
Close Left Cover	The Left cover is open.	Close the Left cover.
Close Tray# Left Cover	The indicated tray left cover is open.	Close the indicated tray left cover.
Energy Save Mode	The printer is in Energy Saver mode.	Wait for a while.

Messages/Second messages	Description	Solution
Hardware Problem DIMM	An error has occurred in the printer.	First, turn the power switch off and then on. If the message appears again, contact your sales or service representative.
Hardware Problem Ethernet	An error has occurred in the optional Network Interface Board.	First, turn off the power switch and then on. If the message appears again, contact your sales or service representative.
Hardware Problem IEEE1394	An error has occurred in the optional 1394 Interface Unit.	First, turn the power switch off and then on. If the message appears again, contact your sales or service representative.
Hardware Problem IEEE 802.11b	An error has occurred in the optional IEEE802.11b Interface Kit.	First, turn the power switch off and then on. If the message appears again, contact your sales or service representative.
Hardware Problem NV-RAM	An error has occurred in the printer.	First, turn the power switch off and then on. If the message appears again, contact your sales or service representative.
Hardware Problem Option RAM	An error has occurred in the optional Memory Unit.	First, turn the power switch off and then on. If the message appears again, contact your sales or service representative.
Hardware Problem Parallel I/F	An error has occurred in the parallel I/F.	First, turn the power switch off and then on. If the message appears again, contact your sales or service representative.
Hardware Problem USB	There is a problem related to the Universal Serial Bus Connection and Hardware.	First, turn the power switch off and then on. If the message appears again, contact your sales or service representative.
Hardware Problem Wireless Card	There is a problem related to the Wireless card.	First, turn the power switch off and on. If the message appears again, contact your sales or service representative.
Hex Dump Mode	The printer is in Hex Dump Mode.	Wait for a while. If the "Hex Dump Mode" message does not change, on the panel display press <b>[On Line]</b> to return to the "Ready" condition.

Messages/Second messages	Description	Solution
Load Correct Size Paper /Press # to Continue	The paper size setting on the tray differs from that of actual paper size in the tray.	Load { paper size } paper of the selected feed direction and paper size into the tray. Printing will not automatically resume if the paper size and direction setting is incorrect. Make sure that the paper feed directions set in the printer driver and on the control panel are the same. There are two methods to resume printing. ① Use the control panel to set the correct paper size and direction of the paper in tray. Then press <b>[Enter (#)]</b> . ② Press <b>[FormFeed]</b> and select the tray with the control panel.
Load Paper /Paper Size: Paper Type:	The paper type and size settings for this tray do not match the size and type of paper actually loaded.	Load paper into the tray indicated, then press <b>[Enter (#)]</b> to resume printing. Or press <b>[FormFeed]</b> and select the tray that holds a different type of paper. To cancel printing, press <b>[Job Reset]</b> . Then press <b>[Enter (#)]</b> .
Load Paper Tray # /Paper Size: Paper Type:	There is no paper left in this tray.	Load paper into the tray indicated.
Menu Protected Cannot Change	The menu is protected and the settings cannot be changed.	Wait for two seconds until the previous display appears.
Offline	The printer is offline.	If you want to bring the printer online. Press <b>[On Line]</b> .
Processing...	The printer is processing internally.	Wait for a while.
Ready	The printer is online and ready to make prints.	If you want to take the printer offline, press <b>[On Line]</b> .
Remove Misfeed Internal Path	There is a misfeed in the printer.	Remove the misfed paper. See Operating Instructions <Basic Features> or <Advanced Features>.
Remove Misfeed Paper Tray	There is a misfeed in the printer.	Remove the misfed paper. See Operating Instructions <Basic Features> or <Advanced Features>.

Messages/Second messages	Description	Solution
Replace Toner Cartridge	The toner cartridge is not set correctly or toner is almost run out.	Set the toner cartridge correctly. See "Replacing the Toner Cartridge", Operating Instructions <Basic Features>.
	The toner dust is full.	Prepare a new toner cartridge. If the image density gets too light, replace the toner cartridge with a new one. See "Replacing the Toner Cartridge", Operating Instructions <Basic Features>.
Reset Fusing Unit Correctly	The fusing unit is not set correctly.	Contact your sales or service representative.
Reset Toner Cartridge	The toner cartridge is not set correctly.	Set the toner cartridge correctly. See "Replacing the Toner Cartridge", Operating Instructions <Basic Features>.
	The toner cartridge is not set installed.	If the cartridge is installed, close the front cover and turn off the power switch and then on. If the message appears again, contact your sales or service representative.
Reset Tray # Correctly	The input paper tray is not set correctly.	Set the input paper tray correctly.
Resetting Job...	The print job is being reset.	Wait for a while.
SC XXX-X Power Off On If Error Reoccur Call Service	An error has occurred.	First, turn the power switch off and then on. If the message appears again, contact your sales or service representative.
Toner is Almost Empty	The toner is almost run out.	Prepare a new toner cartridge. If the image density gets too light, replace the toner cartridge with a new one. See "Replacing the Toner Cartridge", Operating Instructions <Basic Features>.
Waiting...	The printer is waiting for the next print job.	Wait for a while.
Warming Up...	The printer is warming up or toner is being supplied.	Wait until the display panel changes to "Ready".

## Machine Status and Configuration

You can check the machine status and configuration using telnet or UNIX.

### ❖ telnet

Use the info or status command.

### ❖ UNIX

Use the lpr or lpstat command, or stat or info parameter of rsh, rcp, or ftp.

### 🔍 Reference

For more information, see “Remote Maintenance by Telnet (mshell)”, the *Network Printing Guide* on the CD-ROM labeled “Printer Drivers and Utilities”.

### machine status

Messages	Description
Call Service Center	There is a malfunction in the printer.
Cover Open: Left Cover	Open the left cover.
Cover Open: Left Cover: Tray #	Open the Paper Feed Unit # (#:1-5) left cover.
Empty: Toner	The toner cartridge is empty.
Energy Saver Mode	The printer is in Energy Save Mode.
Error: DIMM	The printer detected a DIMM sum value error.
Error: Ethernet	The printer detected an Ethernet error.
Error: IEEE 1394	An error has occurred in the optional 1394 Interface Unit.
Error:IEEE802.11b Card	The optional IEEE 802.11b board or the optional IEEE 802.11b card is not installed.
Error:IEEE802.11b Card or Board Error	An error has occurred in the optional IEEE 802.11b board or the optional IEEE 802.11b card
Error: NVRAM	An error has occurred in the printer.
Error: Optional RAM	An error has occurred in the optional Memory Unit.
Error: Parallel I/F Board	An error has occurred in the parallel interface board.
Error: USB I/F	An error has occurred in the USB interface.
Low: Toner	The toner cartridge is not set correctly or toner is almost running out.
Mismatch: Paper Size	The paper size setting of the tray differs from that of actual paper size in the tray.

Messages	Description
Mismatch: Paper Size and Type	The paper type setting of the tray differs from that of actual paper type in the tray.
Mismatch: Paper Type	The paper type setting of the tray differs from that of actual paper type in the tray.
No Paper	There is no paper of the indicated paper size in the paper tray.
Not Detected: Fusing Unit	The fusing unit is not set correctly.
Not Detected: Selected Tray	The selected tray is not set correctly
Not Detected: Toner Cartridge	The toner cartridge is not set correctly.
Paper Misfeed: Input Tray	There is misfeed in the printer.
Paper Misfeed: Internal	There is misfeed in the printer.
Ready	The printer is on line and ready to make prints.
Replace Maintenance Kit	It is time to replace parts included in the Maintenance Kit.
Warming Up	The printer is warming up or toner is being supplied.

### machine configuration

 **Note**

- "\*" (asterisk) is displayed with the current setting.
- Regarding \*1–\*5, see table below.

Item	Description
Input Tray	
No.	ID number of the paper tray
Name	Name of the paper tray* <sup>1</sup>
PaperSize	Paper size loaded in the paper tray* <sup>2</sup>
Status	Current status of the paper tray* <sup>3</sup>
Output Tray	
No.	ID number of the output tray
Name	Name of the output tray* <sup>4</sup>
Status	Current status of the output tray* <sup>5</sup>

◆ **\*1 Input Tray: Name**

Name	Description
Tray X	Name of installed paper tray (X is the number of tray.)
Bypass Tray	Bypass tray

## ❖ \*2 Input Tray: Paper Size

Paper Size	Description
A3 (297 × 420)	A3 
B4JIS (257 × 364)	B4 
A4 (297 × 210)	A4 
A4 (210 × 297)	A4 
B5JIS (257 × 182)	B5 
B5JIS (182 × 257)	B5 
A5 (148 × 210)	A5 
A6 (105 × 148)	A6 
11 × 17	DLT 
8 <sup>1</sup> / <sub>2</sub> × 14	LG 
8 <sup>1</sup> / <sub>2</sub> × 11	LT 
11 × 8 <sup>1</sup> / <sub>2</sub>	LT 
5 <sup>1</sup> / <sub>2</sub> × 8 <sup>1</sup> / <sub>2</sub>	HLT 
Custom Size	Custom Size
10 <sup>1</sup> / <sub>2</sub> × 7 <sup>1</sup> / <sub>4</sub>	Executive 
7 <sup>1</sup> / <sub>4</sub> × 10 <sup>1</sup> / <sub>2</sub>	Executive 
8 <sup>1</sup> / <sub>4</sub> × 13	Folio 
8 <sup>1</sup> / <sub>2</sub> × 13	Foolscap 
4 <sup>1</sup> / <sub>8</sub> × 9 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>8</sub> " × 9 <sup>1</sup> / <sub>2</sub> " 
3 <sup>7</sup> / <sub>8</sub> × 7 <sup>1</sup> / <sub>2</sub>	3 <sup>7</sup> / <sub>8</sub> " × 7 <sup>1</sup> / <sub>2</sub> " 
8 × 13	8"×13" 
DL (110 × 220 mm)	DL (110 × 220) 
C5 Env (162 × 229 mm)	C5 Env (162 × 229) 
C6 Env (114 × 162 mm)	C6 Env (114 × 162) 
8K (267 × 390)	8K 
16K (195 × 267)	16K 
16K (267 × 195)	16K 

## ❖ \*3 Input Tray: Status

Status	Description
Normal	—
NoTray	There is no paper tray
PaperEnd	There is no paper in the paper tray

❖ **\*4 Output Tray: Name**

Name	Description
Standard Tray	Output Tray

❖ **\*5 Output Tray: Status**

Status	Description
Normal	----
Paper Exit	There is paper in the output tray
Error	Other error

# Printer Does Not Print

Possible Cause	Solutions
Is the power on?	Confirm that the cable is securely plugged into the power outlet and the printer. Turn on the power switch.
Does the <b>On Line</b> indicator stay on?	Press [ <b>On Line</b> ] so the indicator lights.
Does the <b>Error</b> indicator stay red?	Check the error message on the display panel and take the required action.
Is paper loaded?	Load paper into the paper tray or on the Bypass Tray. See "Maintaining Your Machine", Operating Instructions <Advanced Features>.
Can you print a configuration page?	If you cannot print a test page, it probably indicates a printer malfunction. You should contact your sales or service representative. See p.34 "List/Test Print Menu". If you can print a test page but cannot get the printer to print when you issue a print command from the computer, it probably means there is a problem with the computer. Note that large or complex data might take a long time to be printed.
Is the interface cable connecting the printer to the computer connected securely?	Connect the interface cable properly. If there are any connectors or screws, confirm that they are fastened securely.
Are you using the correct interface cable?	The type of interface cable you should use depends on the computer. Be sure to use the correct one. If the cable is damaged or worn, replace it with a new one.

Possible Cause	Solutions
<p>Is the <b>Data In</b> indicator blinking or lit after starting the print job?</p>	<p>If not blinking or lit, the data is not being sent to the printer.</p> <ul style="list-style-type: none"> <li>❖ <b>If the printer is connected to the computer using the interface cable</b> <p>Make sure the following printer port settings are correct:</p> <ul style="list-style-type: none"> <li>• For a parallel port connection, port LPT1 or LPT2 should be set.</li> <li>• For a USB port connection, port USB00 (n) *1 should be set.</li> <li>• For a IEEE 1394 (SCSI print) port connection, port 1394_00(n) *1 should be set.</li> </ul> <p>*1 (n) is the number of printers connected.</p> <ul style="list-style-type: none"> <li>• <b>Windows 95/98/Me</b> <ol style="list-style-type: none"> <li>① Click <b>[Start]</b>, point to <b>[Settings]</b> and then click <b>[Printers]</b>.</li> <li>② Click to select the icon of the printer. Next, on the <b>[File]</b> menu, click <b>[Properties]</b>.</li> <li>③ Click the <b>[Details]</b> tab.</li> <li>④ Check the <b>[Print to the following port]</b> box to confirm that the correct port is selected.</li> </ol> </li> <li>• <b>Windows 2000</b> <ol style="list-style-type: none"> <li>① Click <b>[Start]</b>, point to <b>[Settings]</b> and then click <b>[Printers]</b>.</li> <li>② Click to select the icon of the printer. Next, on the <b>[File]</b> menu, click <b>[Properties]</b>.</li> <li>③ Click the <b>[Port]</b> tab.</li> <li>④ Check the <b>[Print to the following port]</b> box to confirm that the correct port is selected.</li> </ol> </li> <li>• <b>Windows XP</b> <ol style="list-style-type: none"> <li>① Access the <b>[Printers and Faxes]</b> window from <b>[Start]</b> on the taskbar.</li> <li>② Click to select the icon of the printer. Next, on the <b>[File]</b> menu, click <b>[Properties]</b>.</li> <li>③ Click the <b>[Port]</b> tab.</li> <li>④ Check the <b>[Print to the following port(s).]</b> box to confirm that the correct port is selected.</li> </ol> </li> <li>• <b>Windows NT 4.0</b> <ol style="list-style-type: none"> <li>① Click <b>[Start]</b>, point to <b>[Settings]</b> and then click <b>[Printers]</b>.</li> <li>② Click to select the icon of the printer. Next, on the <b>[File]</b> menu, click <b>[Properties]</b>.</li> <li>③ Click the <b>[Port]</b> tab.</li> <li>④ Check the <b>[Print to the following port]</b> box to confirm that the correct port is selected.</li> </ol> </li> </ul> </li> <li>❖ <b>Network Connection</b> <p>Contact your network administrator.</p> </li> </ul>

Possible Cause	Solutions
Do you print via the Ethernet interface?	<p>Confirm that the "Ethernet" setting is correct from the control panel. See p.47 "Host Interface Menu".</p> <p>The setting governs the data transfer speed used by the Network Interface Board. Three options are available:</p> <ul style="list-style-type: none"> <li>• Auto (default)</li> <li>• 100 Mbps</li> <li>• 10 Mbps</li> </ul> <p> <b>Note</b></p> <p><input type="checkbox"/> For more information about the appropriate setting to use on your network, contact your network administrator.</p>
If you use IEEE 1394, check for the followings.	<ol style="list-style-type: none"> <li>① Make sure the 1394 Interface Unit is installed properly.</li> <li>② Make sure the IEEE 1394 cable is connected properly.</li> <li>③ Restart the computer. If the problem still exists when SCSI print is used with Windows 2000 and Windows XP, go to step ④.</li> <li>④ Disconnect all the IEEE 1394 cables from the computer.</li> <li>⑤ If you uninstall the printer driver when the printer is connected to a computer with "SCSI print", the printer driver may not be uninstalled properly. To uninstall the driver properly, use the IEEE 1394 Printer Removal Utility on the CD-ROM that comes with the printer. Stored in: CD-ROM labeled "Printer Drivers and Utilities" \DRIVERS\ UTILITY\1394\</li> </ol> <p> <b>Note</b></p> <p><input type="checkbox"/> For more information about the IEEE 1394 Printer Removal Utility, see the README file in the same folder as the program.</p> <ol style="list-style-type: none"> <li>⑥ Restart the computer.</li> </ol>
How is the signal strength when using the wireless LAN?	<p>Check the signal strength from the Maintenance menu. If the signal is weak, move to a place with better signal strength or remove objects that are possibly interfering with data transmission.</p> <p>The signal strength appears only in infrastructure mode. If you are using the ad hoc mode, the signal strength does not appear on the control panel. For more information about displaying the signal strength, see p.39 "Displaying the Signal Strength".</p>

 **Note**

- If you cannot solve the problem by taking the preceding actions, contact your sales or service representative.

## Other Printing Problems

3

Status	Possible Causes, Descriptions, and Solutions
The print side of the page is a hazy gray.	Adjust the image density. See p.29 "Using the Control Panel".
	If paper is curled, correct it.
	If you continuously print data that contains extremely small amount of words or images in the printable area, the printed side of the page could be a hazy gray. Adjust the image density. See p.29 "Using the Control Panel".
	Shaking the toner cartridge after pulling out the toner seal can cause dirt on paper surfaces, toner spillage, or printer failure. If you have accidentally shaken the toner cartridge, print some pages (about 50 pages) until the dirt disappear.
Image quality varies when printing on thick paper or on OHP transparencies.	Switch to Thick Paper mode. <ul style="list-style-type: none"> <li>• When toner is not fused enough, set it to "On".</li> <li>• When the image is blurred, set it to "----".</li> </ul> See p.29 "Using the Control Panel".
Some parts of the print image are not clear.	Make the image density darker. See p.29 "Using the Control Panel".
	If Toner Saving mode is selected using the control panel, the whole image gets lighter.
The print image is not clear.	Due to a sudden change in temperature, condensation might appear inside the printer, reducing print quality. If this occurs, when you move the printer from a cold room to a warmer room, do not use the printer until it acclimatizes to the temperature.
Multiple pages are fed through the printer at once.	Remove all paper from the tray and fan it gently to get air between the sheets. After that, load it back into the tray.
The image is printed on the reverse side of the paper.	Set the paper the other way up.
Paper misfeeds occur frequently.	Check the paper size settings. The size set with the paper size dial might be different from the actual paper size. Make the correct dial setting.
	Use the recommended paper. Avoid using curled, folded, wrinkled, perforated or glossy paper.
Output are not delivered to the selected tray you require.	When you are using a Windows operating system, the printer driver settings override those set using the control panel. Set the desired output tray using the printer driver. See the driver's online Help file.
The printed image is different from the image on the computer.	When you use some functions, such as enlargement and reduction, the layout of the image might be different from that shown in the computer display.

Status	Possible Causes, Descriptions, and Solutions
It takes too much time to resume printing.	The data is so large or complex that it takes time to process it. If the <b>Data In</b> indicator is blinking, the data processing is being done. Just wait until it resumes.
	Changing the paper feed direction may sometimes reduce the time to resume printing.
The image is printed in the wrong orientation.	Set the correct orientation under the "PCL Menu" with the control panel. See p.53 "PCL Menu".
	Confirm that the setting of orientation has been set in the application you use.
	Set the correct paper size and feed direction that matches tray settings on the RPCS printer driver.
Part of the image cannot be printed.	A paper size which is smaller than that selected in the application is used for printing. Load the correct size of paper.
Network configurations you have made do not become effective.	Print a configuration page and check the network settings.
Printing from a Macintosh with the network standard model is slow.	Set the Ethernet speed of the machine to 10Mbps. If you want to use the machine with Macintosh at the Ethernet speed of 100Mbps, call your sales or service representative. See "Ethernet" in the Network Setup menu.

 **Note**

- If the problem cannot be solved, contact your sales or service representative.



# 4. Using the Control Panel

## Menu Chart

This section describes how to change the default settings of the printer and provides information on the parameters included in each menu. Some items in the menu appear only when certain options are installed.

Category	Function menu
Paper Input⇒ p.32	BypassCstm.Size
	Paper Type
	Tray Locking
	Tray Priority
List/Test Print⇒ p.34	Config. Page
	Menu List
	PS Font List
	PCL Config.Page
	Hex Dump
Maintenance⇒ p.37	Image Density
	WL.LAN Signal *1
	WL.LAN Defaults
	Key Repeat
	Menu Protect *2
	Series Prnt.Job *2

Category	Function menu
System⇒ p.42	MisfeedRecovery
	Prt. Err Report
	Auto Continue
	Memory Overflow
	Copies
	Printer Language
	Sub Paper Size
	Page Size
	Edge-Edge Print
	Memory Usage
	Unit of Measure
	Edge Smoothing
	Resolution
	Toner Saving
Host Interface⇒ p.47	I/O Buffer
	I/O Timeout
	Network Setup
	IEEE 1394 Setup <sup>*3</sup>
	IEEE 802.11b <sup>*4</sup>
	USB Setting <sup>*2</sup>
PCL Menu⇒ p.53	Orientation
	Form Lines
	Font Source
	Font Number
	Point Size
	Font Pitch
	Symbol Set
	Ext. A4 Width
Language⇒ p.56	

<sup>\*1</sup> The "WL.LAN Signal" menu appears only when "IEEE 802.11b" is selected in "LAN Type" in the Host Interface menu.

<sup>\*2</sup> While the printer is **On Line**, press **[Enter (#)]**, and then press **[Escape]**. Finally, press **[Menu]**. You can access the "Menu Protect", "Series Prnt.Job" and "USB Setting" on the display panel.

<sup>\*3</sup> The "IEEE 1394 Setup" menu appears only when the optional 1394 Interface Unit is installed.

<sup>\*4</sup> The "IEEE 802.11b Setup" menu appears only when the optional IEEE802.11b Interface Kit is installed.

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## Accessing the Printer Features

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- 1** Press the **[Printer]** key on the control panel.
- 2** Press **[Menu]**.
- 3** Select the desired item by pressing the **[▲]** or **[▼]** key, and then change the settings.
  - Paper Input
  - List/Test Print
  - Maintenance
  - System
  - Host Interface
  - PCL Menu
  - Language

 **Note**

- [▼]**: Press to go to the next page.
- [▲]**: Press to go back to the previous page.
- After making the printer settings, be sure to return to the previous menu by pressing **[Escape]**.
- After making the printer settings, press **[On Line]** to return to the “Ready” condition.
- The revised settings are not canceled even if the power switch is turned off.

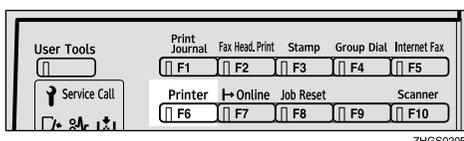
# Paper Input Menu

## Paper Input Parameters

Menu	Description
BypassCstm.Size	<p>The custom paper size for the Bypass Tray.</p> <p>For more information about paper sizes that can be set in the Bypass Tray, see the Operating Instructions &lt;Advanced Features&gt;.</p>
Paper Type	<p>If you use different kinds of paper, you set the paper type for Tray 1, Tray 2, Tray 3, Tray 4, Tray 5 or Bypass Tray.</p> <p>❖ <b>Tray 1, Tray 2, Tray 3, Tray 4, Tray 5</b> Plain Paper, Recycled Paper, Special Paper, Color Paper, Letterhead, Bond Paper, Cardstock</p> <p>❖ <b>Bypass Tray</b> Plain Paper, Recycled Paper, Special Paper, Color Paper, Letterhead, Preprinted, Prepunched, Labels, Bond Paper, Cardstock, Transparency, Thick Paper</p> <p> <b>Note</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Default : Plain Paper</li> <li><input type="checkbox"/> Only the installed trays appear on the display panel.</li> </ul>
Tray Locking	<p>If you use different kinds of paper, you can lock a tray to prevent printing on wrong paper such as letterhead or colored paper. When "Auto Select" is selected in the Paper Source selections from the printer driver, the locked tray will not be used.</p> <p>Tray 1, Tray 2, Tray 3, Tray 4, Tray 5, Bypass Tray</p> <p> <b>Note</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Only the installed trays appear on the display panel.</li> <li><input type="checkbox"/> You cannot lock multiple trays.</li> <li><input type="checkbox"/> If you want to use the locked tray, you must select the tray from the printer driver.</li> <li><input type="checkbox"/> When a locked tray is selected from the printer driver, the printer does not search for another tray.</li> </ul>
Tray Priority	<p>You can set priority tray for paper feed when "Auto tray Selected" is selected in the Paper Source selections from the printer driver. When printing from DOS, the tray selected here is used when no tray is selected for a print job.</p> <p>Tray 1, Tray 2, Tray 3, Tray 4, Tray 5, Bypass Tray</p> <p> <b>Note</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Default : Tray 1</li> <li><input type="checkbox"/> Only the installed trays appear on the display panel.</li> <li><input type="checkbox"/> It is recommended that you load paper of the size and direction you most frequently use in the tray selected with "Tray Priority".</li> </ul>

## Changing the Paper Input Menu

- 1 Press the **[Printer]** key.

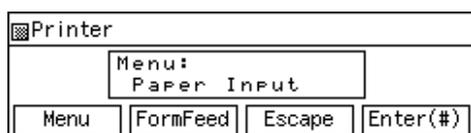


“Ready” appears on the display panel.

- 2 Press **[Menu]**.

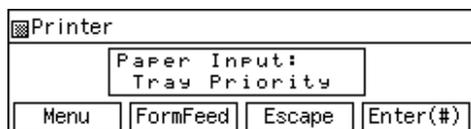
“Menu” appears on the display panel.

- 3 Press **[▲]** or **[▼]** to display the “Paper Input” menu.



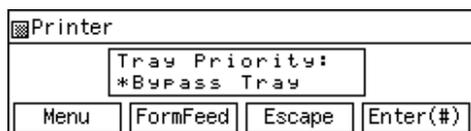
- 4 Press **[Enter (#)]**.

- 5 Press **[▲]** or **[▼]** to display “Tray Priority”.



- 6 Press **[Enter (#)]**.

The following message appears on the display panel.



- 7 Press **[▲]** or **[▼]** to select the tray type you want to use.

- 8 Press **[Enter (#)]**. Wait for a few seconds.

- 9 Press **[Menu]**.

“Ready” appears on the display panel

# List/Test Print Menu

## List/Test Print

Menu	Description
Config. Page	You can print the current configuration of the printer. See p.34 "Printing a Configuration Page".
Menu List	You can print the Menu List which shows the function menus of this printer.
PS Font List	You can print the current configuration and installed PS font list of PostScript.
PCL Config. Page	You can print the current configuration of PCL.
Hex Dump	You can print the data sent by the computer using the Hex Dump mode.

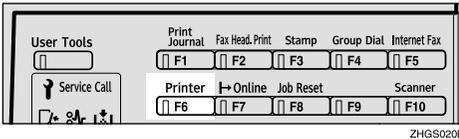
4

## Printing a Configuration Page

### Reference

For more information, see p.35 "Interpreting the Configuration Page".

**1** Press the **[Printer]** key.

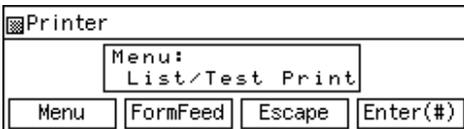


"Ready" appears on the display panel.

**2** Press **[Menu]**.

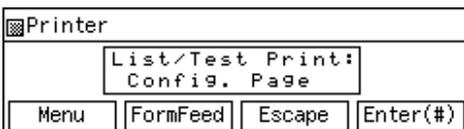
"Menu" appears on the display panel

**3** Press **[▼]** or **[▲]** to display the "List/Test Print" menu.



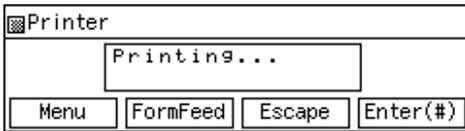
**4** Press **[Enter (#)]**.

The following message appears on the display panel



**5** Press [Enter (#)].

The following message appears on the display panel



The configuration page will be printed in a short time.

**Important**

- If you cannot print a configuration page correctly, check for an error message on the display panel. For more information about error messages, see p.15 “Error & Status Messages on the Display Panel”.

**6** Press [Menu].

“Ready” appears on the display panel

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## Interpreting the Configuration Page

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### System Reference

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#### ❖ Printer ID

Shows the serial number assigned to the board by its manufacturer.

#### ❖ Total Memory

Shows the total amount of memory (SDRAM) installed on the printer.

#### ❖ Firmware Version

- Firmware  
Shows the version number of the printer firmware.
- Engine  
Shows the version number of the printer engine.
- NCS  
Shows the version number of the Network interface.

#### ❖ Controller Option

The item(s) appears when the controller option(s) is installed.

#### ❖ Printer Language

Shows the version number of the printer driver language.

#### ❖ Options

Shows the optional trays that you installed.

---

## Paper Input

---

Shows the settings made under the “Paper Input” menu.

 **Reference**

For more information, see p.32 “Paper Input Menu”.

---

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## Maintenance

---

Shows the settings made under the “Maintenance” menu.

 **Reference**

For more information, see p.37 “Maintenance Menu”.

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4

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## System

---

Shows the settings made under the “System” menu.

 **Reference**

For more information, see p.42 “System Menu”.

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## PCL Menu

---

Shows the settings you made under the “PCL Menu”.

 **Reference**

For more information, see p.53 “PCL Menu”.

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## Host Interface

---

Shows the settings you made under the “Host Interface” menu.

When DHCP is active on the network, the actual IP Address, Subnet Mask and Gateway Address appear in parentheses on the configuration page.

 **Reference**

For more information about “Host Interface” menu, see p.47 “Host Interface Menu”.

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## Interface Information

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Shows the interface information.

---

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## Error Log

---

Shows the log of printer errors.

# Maintenance Menu

## Maintenance Menu Parameters

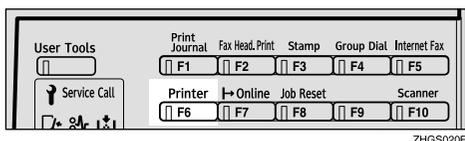
Menu	Description
Image Density	You can select the print image density. -4 to 4
WL.LAN Signal	You can check the signal strength when using the wireless LAN.  <b>Reference</b> For more information about displaying the signal strength, see p.39 "Displaying the Signal Strength".
WL. LAN Defaults	You can reset the wireless LAN settings to the default.
Key Repeat	You can scroll through the menu by holding this key down.  <b>Note</b> <input type="checkbox"/> Default: On
Menu Protect <sup>*1</sup>	This procedure lets you protect menu settings against accidental changes. It makes it impossible to change the menu settings you make with the normal procedure unless you perform the required key operation. In a network environment, protecting settings restricts who can change menu settings to network administrators. <ul style="list-style-type: none"> <li>• Level 1</li> <li>• Level 2</li> <li>• Off</li> </ul>
Series Prnt.Job <sup>*1</sup>	You can print series of print jobs without time intervals between them when jobs are sent from the same computer, PDL, and interface.  <b>Note</b> <input type="checkbox"/> Default: On <input type="checkbox"/> When the Job Reset key is pressed, all jobs sent to the machine will be canceled.

<sup>\*1</sup> While the printer is Online, press **[Enter (#)]**, and then press **[Escape]**. Finally, press **[Menu]**. You can access the "Menu Protect" and "Series Prnt.Job" menu on the display panel.

## Changing the Maintenance Menu

### Protecting the menus

- 1 Press the **[Printer]** key.



"Ready" appears on the display panel.

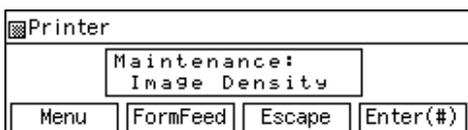
4

- 2 Press **[Enter (#)]**, then **[Escape]**, and then **[Menu]**.

"Menu" appears on the display panel

- 3 Press **[▲]** or **[▼]** to display the "Maintenance" menu, and then press **[Enter (#)]**.

The following message appears on the display panel

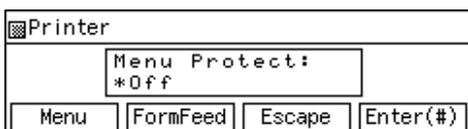


- 4 Press **[▲]** or **[▼]** to display "Menu Protect".



- 5 Press **[Enter (#)]**.

The following message appears on the display panel



- 6 Press **[▲]** or **[▼]** to select the levels desired, and then press **[Enter (#)]**. Wait for a few seconds.

- 7 Press **[Menu]**.

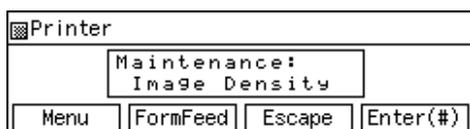
"Ready" appears on the display panel

---

## Canceling the protection

---

- 1** Press the **[Printer]** key.  
“Ready” appears on the display panel.
- 2** Press **[Enter (#)]**, then **[Escape]**, and then **[Menu]**.  
“Menu” appears on the display panel
- 3** Press **[▲]** or **[▼]** to display “Maintenance” menu, and then press **[Enter (#)]**.  
The following message appears on the display panel



- 4** Press **[▲]** or **[▼]** to display “Menu Protect”, and then press **[Enter (#)]**.
- 5** Press **[▲]** or **[▼]** to display “Off”, and then press **[Enter (#)]**. Wait for a few seconds.
- 6** Press **[Menu]**.  
“Ready” appears on the display panel

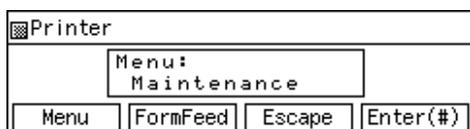
---

## Displaying the Signal Strength

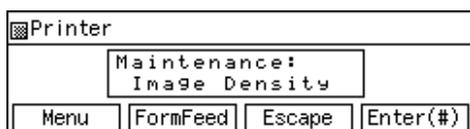
---

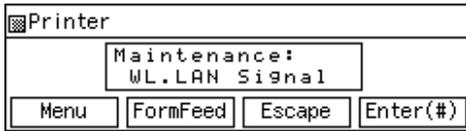
If you need to check the IEEE 802.11b (Wireless LAN) signal, select "WL.LAN Signal" in the "Maintenance" menu.

- 1** Press the **[Printer]** key.  
“Ready” appears on the display panel.
- 2** Press **[Menu]**.  
“Menu” appears on the display panel
- 3** Press **[▼]** or **[▲]** to display the “Maintenance” menu.



- 4** Press **[Enter (#)]**.  
The following message appears on the display panel



**5** Press [▼] or [▲] to display "WL.LAN Signal".**6** Press [Enter (#)].

"Good", "Fair", "Poor" or "Unavailable" appear on the display panel.

**Note**

- If "WL.LAN Signal" is not displayed, "IEEE 802.11b" has not been selected for "LAN Type" in "Network Setup" of the Host Interface menu. Select "IEEE 802.11b" for "LAN Type", and then check the "WL.LAN Signal" in the Maintenance menu again.
- If "Ad hoc" in "Comm. Mode" of "IEEE 802.11b" in the Host Interface menu is selected, you cannot check the signal. Select "Infrastructure" and then check it again.
- Every time you press [Enter (#)], the signal is updated.
- The signal is indicated as "Good" if the signal strength is 76-100%, "Fair" if the strength is 41-75%, "Poor" if the strength is 21-40%, and "Unavailable" if the strength is 0-20%. If the signal is unstable or unavailable, remove obstacles or move the printer to a place where the signal can be received.
- Using wireless devices or microwave sources near the printer might affect the signal.

**7** Press [Escape].**8** Press [Menu].

"Ready" appears on the display panel

---

**Resetting the IEEE 802.11b (Wireless LAN) Settings**


---

If you need to reset the wireless LAN setting, select "WL.LAN Defaults" in the Maintenance menu.

**Note**

- The four items that can be reset in "IEEE 802.11b" of the Host Interface menu are "Comm. Mode", "Channel", "Trans. Speed", and "WEP Setting". Other items that can be reset are the SSID settings, the WEP key settings, and the wireless LAN settings that can be made with telnet.

**1** Press the [Printer] key.

"Ready" appears on the display panel.

**2** Press [Menu].

"Menu" appears on the display panel

- 3** Press [▼] or [▲] to display the “Maintenance” menu.

Printer			
Menu: Maintenance			
Menu	FormFeed	Escape	Enter(#)

- 4** Press [Enter (#)].

The following message appears on the display panel

Printer			
Maintenance: Image Density			
Menu	FormFeed	Escape	Enter(#)

- 5** Press [▼] or [▲] to display "WL.LAN Defaults".

4

Printer			
Maintenance: WL.LAN Defaults			
Menu	FormFeed	Escape	Enter(#)

- 6** Press [Enter (#)].

Printer			
WL.LAN Defaults Reset->Defaults?			
Menu	FormFeed	Escape	Enter(#)

- 7** Press [Enter (#)].

The following message appears on the display panel

Printer			
Defaults reset			
Menu	FormFeed	Escape	Enter(#)

The wireless LAN setting value is reset.

“Ready” appears on the display panel

# System Menu

## System Parameters

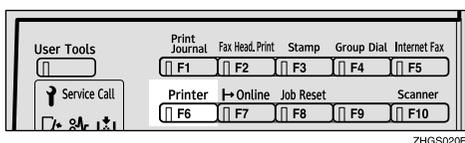
Menu	Description
MisfeedRecovery	<p>You can select whether Misfeed Recovery is enabled. When it is on, printing restarts after the misfed paper has been cleared.</p> <ul style="list-style-type: none"> <li>• On</li> <li>• Off</li> </ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: On</p>
Prt. Err Report	<p>You can select whether or not to have an error report printed when a printer error or memory error occurs.</p> <ul style="list-style-type: none"> <li>• On</li> <li>• Off</li> </ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: Off</p>
Auto Continue	<p>You can set whether Auto Continue is enabled. When it is on, printing continues after a system error occurs.</p> <ul style="list-style-type: none"> <li>• Off</li> <li>• 0 minutes</li> <li>• 1 minute</li> <li>• 5 minutes</li> <li>• 10 minutes</li> <li>• 15 minutes</li> </ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: Off</p> <p><input type="checkbox"/> When it is on and certain types of error occur, the current job might be canceled, and the next job started automatically.</p>
Memory Overflow	<p>You can select whether the memory overflow error report is printed when the data is too large and cannot be processed.</p> <ul style="list-style-type: none"> <li>• Not Print</li> <li>• Error List</li> </ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: Not Print</p>

Menu	Description
Copies	<p>You can set the number of sets of prints. This setting is disabled if the number of pages to print has been specified with the printer driver or a command.</p> <p>1 to 999</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: 1</p>
Printer Language	<p>You can select the printer language that is automatically used when the printer is turned on.</p> <ul style="list-style-type: none"> <li>• Auto</li> <li>• PCL</li> <li>• PS</li> </ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: Auto</p>
Sub Paper Size	<p>You can select whether the printer automatically selects the paper tray containing paper of the specified size.</p> <ul style="list-style-type: none"> <li>• Off</li> <li>• Auto</li> </ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: Off</p>
Page Size	<p>You can specify the default paper size.</p> <p>11 x 17, 8 1/2 x 14, 11 x 8 1/2, 5 1/2 x 8 1/2, 7 1/4 x 10 1/2, 8 x 13, 8 1/2 x 13, 8 1/4 x 13, A3(297x420), B4 JIS(257x364), A4(210x297), B5 JIS(182x 257), A5(148x210), A6(105x148), 8K, 16K, 4 1/8 x 9 1/2, 3 7/8 x 7 1/2, C5 Env.(162x229), C6 Env.(114x162), DL Env.(110x220), Custom Size</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: 11 x 8 1/2</p>
Edge-Edge Print	<p>You can print on the complete area of an A4 sheet leaving no border on any edge.</p> <ul style="list-style-type: none"> <li>• On</li> <li>• Off</li> </ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: Off</p>

Menu	Description
Memory Usage	<p>You can select memory to be used from "Font Priority" or "Frame Priority" according to the paper size, resolution or printer language.</p> <ul style="list-style-type: none"> <li>• Font Priority This setting uses memory for registering fonts.</li> <li>• Frame Priority This setting uses memory for high speed printing.</li> </ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: Frame Priority</p>
Unit of Measure	<p>You can select "mm" or "inch" for the custom paper sizes.</p>
Edge Smoothing	<p>You can set whether Edge Smoothing is enabled. When it is on, jagged lines appear more smoothly. Set it to off when the print image contains fine gradation in tone.</p> <ul style="list-style-type: none"> <li>• On</li> <li>• Off</li> </ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: On</p> <p><input type="checkbox"/> If "Toner Saving" is "On", "Edge Smoothing" is ignored even if it is "On".</p>
Resolution	<p>You can set the print resolution in dots per inch.</p> <ul style="list-style-type: none"> <li>◆ <b>PCL</b> 300 dpi, 600 dpi</li> <li>◆ <b>PS</b> 300 dpi, 600 dpi, 1200 dpi</li> </ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: 600 dpi</p>
Toner Saving	<p>You can select whether or not Toner Saving is enabled.</p> <ul style="list-style-type: none"> <li>• On</li> <li>• Off</li> </ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: Off</p> <p><input type="checkbox"/> If "Toner Saving" is "On", "Edge Smoothing" is ignored even if it is "On".</p>

## Changing the System Menu

- 1 Press the **[Printer]** key.

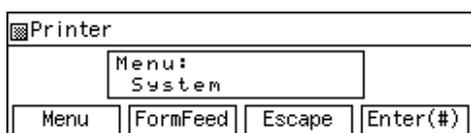


“Ready” appears on the display panel.

- 2 Press **[Menu]**.

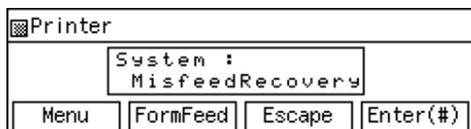
“Menu” appears on the display panel

- 3 Press **[▲]** or **[▼]** to display the “System” menu.



- 4 Press **[Enter (#)]**.

The following message appears on the display panel



- 5 Press **[▲]** or **[▼]** to display “Copies”.



- 6 Press **[Enter (#)]**.

The following message appears on the display panel



- 7 Press **[▲]** or **[▼]** to set the value you desire.



**8** Press [Enter (#)].

**9** Press [Menu].

“Ready” appears on the display panel

# Host Interface Menu

## Host Interface Parameters

Menu	Description
I/O Buffer	<p>You can set the size of the I/O Buffer. Normally it is not necessary to change this setting.</p> <p>16 KB, 32 KB, 64 KB, 128 KB, 256 KB, 512 KB</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: 128 KB</p>
I/O Timeout	<p>You can set how many seconds the printer waits before ending a print job if more data is not received when using parallel interface and USB. If data from another port often appears in the middle of a print job, you should increase the timeout value.</p> <p>10 seconds, 15 seconds, 20 seconds, 25 seconds, 60 seconds</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: 15 seconds</p>
Network Setup	<p> <b>Note</b></p> <p><input type="checkbox"/> Items only appear in the Network Setup when the related options are installed. "IEEE 1394 Setup" appears only when the optional 1394 Interface Unit is installed. "IEEE 802.11b" appears only when the optional IEEE802.11b Interface Kit is installed.</p> <p> <b>Reference</b></p> <p>For more information about the "Network Setup", see "Configuring the Printer for the Network", <i>Printer Reference 1</i>.</p> <p>For more information about the "IEEE 1394 Setup", see "Configuring the Printer for the Network", <i>Printer Reference 1</i>.</p> <p>For more information about the "IEEE 802.11b", see "Configuring the Printer for the Network", <i>Printer Reference 1</i>.</p> <p>❖ <b>IP Address</b></p> <p>You can set the IP Address.</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: 011.022.033.044</p> <p>❖ <b>Subnet Mask</b></p> <p>You can set the Subnet Mask.</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: All zero</p> <p>❖ <b>Gateway Address</b></p> <p>You can set the Gateway Address.</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: All zero</p>

Menu	Description
Network Setup	<p>❖ <b>DHCP</b>                      You can set how the Network Interface Board acquires TCP/IP settings.</p> <p> <b>Note</b>  <input type="checkbox"/> Default: On</p> <p>❖ <b>Frame Type (NW)</b>                      You can set the Frame Type for NetWare.</p> <p> <b>Note</b>  <input type="checkbox"/> Default: Auto</p> <p>❖ <b>Active Protocol</b>                      You can set the active protocol.                      TCP/IP, NetWare, NetBEUI, AppleTalk</p> <p> <b>Note</b>  <input type="checkbox"/> Default: All Active</p> <p>❖ <b>Ethernet</b>                      You can select the speed of the network to which the printer is connected.                      Auto , 10 Mbps, 100 Mbps</p> <p> <b>Note</b>  <input type="checkbox"/> Default: Auto</p> <p>❖ <b>LAN Type</b>                      You can select Ethernet or IEEE 802.11b for the LAN type.</p> <p> <b>Note</b>  <input type="checkbox"/> Default: Ethernet  <input type="checkbox"/> Appears only when the optional IEEE802.11b Interface Kit is installed.</p> <p> <b>Reference</b>                      For more information about Network Setup, see "Configuring the Printer for the Network" in Printer Reference 1.</p>

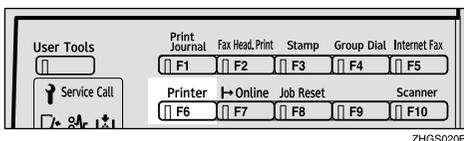
Menu	Description
IEEE 1394 Setup <sup>*1</sup>	<p>You can make settings for using IEEE 1394. This menu appears only when the optional 1394 Interface Unit is installed.</p> <ul style="list-style-type: none"> <li> <p>❖ <b>IP Address1394</b>            You can set the IP address for IEEE 1394 (IP over 1394).</p> <p> <b>Note</b>  <input type="checkbox"/> Default: All zero</p> </li> <li> <p>❖ <b>Subnet Mask1394</b>            You can set the Subnet Mask for IEEE 1394 (IP over 1394).</p> <p> <b>Note</b>  <input type="checkbox"/> Default: All zero</p> </li> <li> <p>❖ <b>IP over 1394</b>            You can activate IP over 1394.</p> <p> <b>Note</b>  <input type="checkbox"/> Default: Active</p> </li> <li> <p>❖ <b>SCSI print</b>            You can activate SCSI print.</p> <p> <b>Note</b>  <input type="checkbox"/> Default: Active</p> </li> <li> <p>❖ <b>Bidi-SCSI print</b>            You can activate bidirectional transmission for SCSI print.</p> <p> <b>Note</b>  <input type="checkbox"/> Default: On</p> </li> </ul>

Menu	Description
IEEE 802.11b <sup>*2</sup>	<p>You can make settings for using the wireless LAN. This menu appears only when the optional IEEE802.11b Interface Kit is installed.</p> <ul style="list-style-type: none"> <li> <p><b>◆ Comm. Mode</b>                      You can set the transmission mode for IEEE 802.11b.</p> <p> <b>Note</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Default: 802.11 Ad hoc</li> </ul> </li> <li> <p><b>◆ Channel</b>                      The selectable channels are 1-11.</p> <p> <b>Note</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Default: 11</li> </ul> </li> <li> <p><b>◆ Trans. Speed</b>                      You can set the transmission speed for IEEE 802.11b.</p> <p> <b>Note</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Default: Auto</li> </ul> </li> <li> <p><b>◆ SSID</b>                      You can set for SSID in infrastructure mode.</p> <p> <b>Limitation</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Select "¥" if you want to enter "/" in the SSID. Also, "¥" appears when printing the configuration page, read it as "/".</li> </ul> <p> <b>Note</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> The characters that can be used are ASCII 0x20-0x7e (32 bytes).</li> <li><input type="checkbox"/> A SSID value is set automatically to the nearest access point if the setting has not been made.</li> <li><input type="checkbox"/> If the setting has not been made for ad hoc mode, the same value as for infrastructure mode or an "ASSID" value is set automatically.</li> </ul> </li> <li> <p><b>◆ WEP Setting</b>                      You can set the code for IEEE 802.11b.</p> <p> <b>Note</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Default: Not Active</li> <li><input type="checkbox"/> With a 64-bit WEP, you can use 10 digit hexadecimal. With a 128-bit WEP, you can use 26 digit hexadecimal.</li> </ul> </li> </ul>
USB Setting <sup>*3</sup>	<p>You can set the transmission speed for USB.</p> <p> <b>Note</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Default: Auto</li> </ul>

<sup>\*1</sup> Appears only when the optional 1394 Interface Unit is installed.  
<sup>\*2</sup> Appears only when the optional IEEE802.11b Interface Kit is installed.  
<sup>\*3</sup> While the printer is online, press **[Enter (#)]**, and then press **[Escape]**. Finally, press **[Menu]**. You can access the "USB Setting" menu on the display panel.

## Changing the Host Interface Menu

- 1 Press the **[Printer]** key.

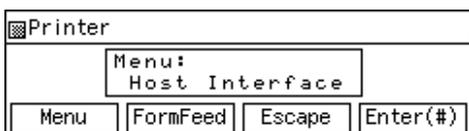


“Ready” appears on the display panel.

- 2 Press **[Menu]**.

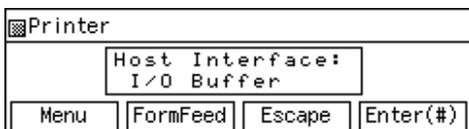
“Menu” appears on the display panel

- 3 Press **[▲]** or **[▼]** to display the “Host Interface” menu.

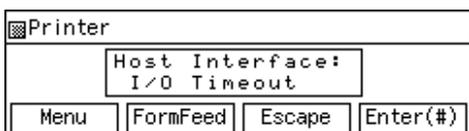


- 4 Press **[Enter (#)]**.

The following message appears on the display panel

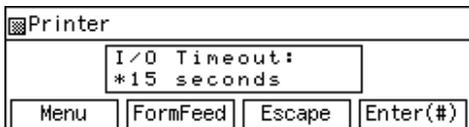


- 5 Press **[▲]** or **[▼]** to display “I/O Timeout”.



- 6 Press **[Enter (#)]**.

The following message appears on the display panel



- 7 Press **[▲]** or **[▼]** to select how many minutes the printer waits before ending a print job.

- 8 Press **[Enter (#)]**. Wait for a few seconds.

The screen returns to step **5** in a few seconds.

**9** Press [Menu].

“Ready” appears on the display panel

# PCL Menu

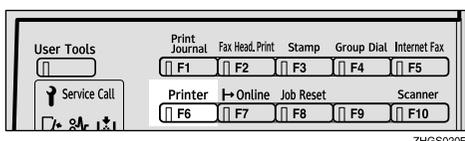
## PCL Parameters

Menu	Description
Orientation	<p>You can set the page orientation.</p> <ul style="list-style-type: none"> <li>• Portrait</li> <li>• Landscape</li> </ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: Portrait</p>
Form Lines	<p>You can set the number of lines per page. 5-128</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: 60</p>
Font Source	<p>You can set the location of the default font.</p> <ul style="list-style-type: none"> <li>• Resident</li> <li>• Download</li> </ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: Resident</p> <p><input type="checkbox"/> When you select "Download", you can select only fonts downloaded to printer RAM.</p>
Font Number	<p>You can set the ID of the default font you want to use.</p> <ul style="list-style-type: none"> <li>• 0 to 50 (for Resident)</li> <li>• 1 to downloaded number</li> </ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: 0</p>
Point Size	<p>You can set the point size you want to use for the default font. 4 to 999.75 by 0.25</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: 12.00</p> <p><input type="checkbox"/> This setting is effective only for a variable-space font.</p>
Font Pitch	<p>You can set the number of characters per inch you want to use for the default font. 0.44 to 99.99 by 0.01</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: 10.00</p> <p><input type="checkbox"/> This setting is effective only for a fixed-space font.</p>

Menu	Description
Symbol Set	<p>You can specify the set of print characters for the default font. The available options are as follows.</p> <p>Roman-8, ISO L1, ISO L2, ISO L5, PC-8, PC-8 D/N, PC-850, PC-852, PC8-TK, Win L1, Win L2, Win L5, Desktop, PS Text, VN Intl, VN US, MS Publ, Math-8, PS Math, VN Math, Pifont, Legal, ISO 4, ISO 6, ISO 11, ISO 15, ISO 17, ISO 21, ISO 60, ISO 69, Win 3.0</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: Roman-8</p>
Ext. A4 Width	<p>You can extend the width of the printable area for an A4 sheet leaving a narrow margin on the sides.</p> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: Off</p>
Append CR to LF	<p>By adding a CR code to each LF code, you can print text data clearly.</p> <ul style="list-style-type: none"><li>• On</li><li>• Off</li></ul> <p> <b>Note</b></p> <p><input type="checkbox"/> Default: Off</p>

## Changing the PCL Menu

- 1 Press the **[Printer]** key.



"Ready" appears on the display panel.

- 2 Press **[Menu]**.

"Menu" appears on the display panel

- 3 Press **[▲]** or **[▼]** to display "PCL Menu", and then press **[Enter (#)]**.

The following message appears on the display panel



- 4 Press **[Enter (#)]**.



- 5 Press **[▲]** or **[▼]** to select the orientation desired, and then press **[Enter (#)]**.  
Wait for a few seconds.

The screen returns to step 3 in a few seconds.

- 6 Press **[Menu]**.

"Ready" appears on the display panel

# Language Menu

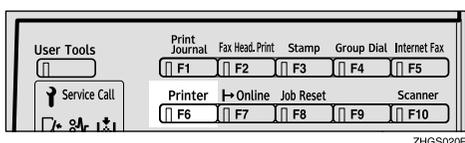
You can select the language you use. Available language as are follows:  
English, French, Spanish

## Note

- Default: English

## Changing the Language Menu

- 1 Press the [Printer] key.



"Ready" appears on the display panel.

- 2 Press [Menu].

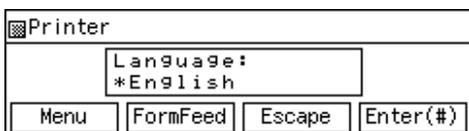
"Menu" appears on the display panel

- 3 Press [▲] or [▼] to display "Language" menu.



- 4 Press [Enter (#)].

The following message appears on the display panel



- 5 Press [▲] or [▼] until the language you want to select appears on the display panel

- 6 Press [Enter (#)]. Wait for a few seconds.

The screen returns to step 3 in a few seconds.

- 7 Press [Menu].

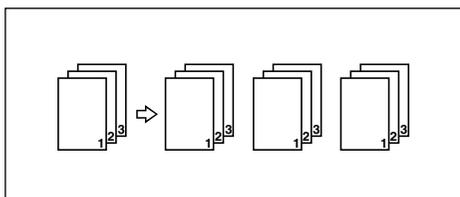
"Ready" appears on the display panel

## Collate

When printing multiple documents such as materials for meetings, you can separate sets into order. This function is known as “Collate”.

### ❖ Collate

Printed output is assembled as sets in sequential order.



### ! Limitation

- A minimum of 96 MB is necessary to use Collate.
- You can print up to approximately 200 pages using Collate.

# Specifications

This section contains the electrical and hardware specifications for the machine including information about the options.

Component	Specification
Resolution	PCL 6 : 600 dpi, 1200 dpi PCL 5e: 300 dpi, 600 dpi RPCS™ : 600 dpi, 1200 dpi PostScript 3 : 600 dpi, 1200 dpi
Printing Speed	23 ppm (A4 <input type="checkbox"/> , 8½" × 11" <input type="checkbox"/> Plain Paper)
Interface	Standard: <ul style="list-style-type: none"> <li>• IEEE 1284 Parallel Interface</li> </ul>  <b>Note</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Use a standard 36-pin printer cable that is not longer than 3 metres (10 feet).</li> <li>• Ethernet Interface (100 BASE-TX/10BASE-T)</li> </ul> Option: <ul style="list-style-type: none"> <li>• IEEE 1394 Interface</li> <li>• IEEE 802.11b Wireless LAN Interface</li> <li>• USB2.0 Interface</li> </ul>
Network Protocol	TCP/IP, IPX/SPX, NetBEUI *1, AppleTalk
Printer Language	Standard: PCL 6, PCL 5e, RPCS™ Option: PostScript 3
Fonts	PCL 6/5e : Afga Monotype Font Manager 35 Intellifonts, 10 TrueType fonts, and 1 Bitmap font Font Manager available. PostScript 3 : 136 fonts (Type 2:24, Type 14:112)
Memory	Resident : 32 MB (Max.: 96 MB) Optional SDRAM : 64 MB  <b>Note</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> A minimum of 96 MB is necessary to use the optional 1394 Interface Unit.</li> <li><input type="checkbox"/> A minimum of 96 MB is necessary to use Collate.</li> </ul>

Component	Specification
Operating Systems supported by this machine	Windows 95/98/Me Windows 2000 Windows XP Windows NT 4.0 Mac OS 8.6 to 9.2 Mac OS X
Network Cable	100BASE-TX/10BASE-T shielded twisted-pair (STP, Category/Type5) cable.

\*1 To use NetBEUI, use the SmartNetMonitor for Client port.

## Options

### Limitation

- Only one optional interface board can be installed in the machine at a time. Therefore, the optional 1394 Interface Unit, the optional IEEE802.11b Interface Kit (Wireless LAN board) and the optional USB2.0 Interface board cannot be installed in the machine simultaneously.

5

### 1394 Interface Unit Type 4510

#### ❖ Transmission Spec.:

IEEE 1394

#### ❖ Interface:

IEEE std 1394-1995 compliant  
IEEE std 1394a-2000 compliant

#### ❖ Device Class:

SCSI print (Windows 2000, Windows XP)  
IP over 1394 (Windows Me, Windows XP)

#### ❖ Protocol:

SBP-2 (SCSI print)  
TCP/IP (IP over 1394)

#### ❖ Interface Connector:

IEEE 1394 (6 pin × 2)

#### ❖ Required cable:

1394 interface cable (6 pin × 4 pin, 6 pin × 6 pin)

#### Important

- You cannot plug devices together so as to create loops.
- Do not use a cable more than 4.5 meters long.

- ❖ **Data Transfer Speed:**  
Maximum 400 Mbps
- ❖ **Connectable number of devices on a bus:**  
Maximum 63
- ❖ **Allowed cable hops on a bus:**  
Maximum 16
- ❖ **Power supply:**  
Non power supply  
Cable Power repeated (IEEE 1394a-2000 compliant)

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### IEEE802.11b Interface Kit Type B

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- ❖ **Transmission Spec.:**  
Based on IEEE 802.11b (Wireless LAN)
- ❖ **Protocol:**  
TCP/IP, NetBEUI, IPX/SPX, AppleTalk

**Note**

- SmartNetMonitor and WebStatusMonitor are supported.

- ❖ **Data Transfer Speed:**  
Auto select from below speed  
1Mbps, 2Mbps, 5.5Mbps, 11Mbps
- ❖ **Frequency Range:**
  - 2400-2497 MHz (1-11 channels)

- ❖ **Transmittable Distance:**

1Mbps 400m <sup>\*1</sup>  
2Mbps 270m <sup>\*1</sup>  
5.5Mbps 200m <sup>\*1</sup>  
11Mbps 140m <sup>\*1</sup>

<sup>\*1</sup> These figures are a guideline for outdoor use. In general, the transmittable distance indoors is 10-100 m, depending on the environment.

- ❖ **Transmission Mode:**  
802.11b Ad hoc mode, Ad hoc mode and Infrastructure mode

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## USB2.0 Interface Board Type A

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### ❖ **Transmission Spec:**

Based on USB2.0

### ❖ **Data Transfer Speed:**

High Speed: 480Mbps

Full Speed: 12Mbps

### ❖ **Supported Operating System:**

Windows 98SE/Me, Windows 2000/XP, Mac OS 9.x, Mac OS X Classic mode

### **Note**

- This USB2.0 Interface Board is compatible with devices that support USB1.1.
- For Windows 98SE/Me, make sure to install “USB Printing Support” included on the CD-ROM that comes with this machine. When USB2.0 is used with Windows 98SE/Me, only a speed equal to that of USB1.1 is possible.
- Macintosh supports only the standard USB port.

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## POSTSCRIPT3 INTERFACE UNIT TYPE510

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### **Reference**

See the *POSTSCRIPT3 INTERFACE UNIT TYPE510 Operating Instructions Supplement* for information.

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## Memory Unit Type C 64MB

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### ❖ **Module Type:**

SO-DIMM (Small Outline Dual-in-line Memory Module)

### ❖ **Memory Type:**

SDRAM (Synchronous Dynamic RAM)

### ❖ **Number of Pins:**

144 pins

# INDEX

---

1394 Interface Unit Type 4510, 59  
802.11b Interface Kit Type B, 60

## C

---

Canceling a job  
    *Macintosh*, 10  
    *Windows*, 9  
Collate, 57  
Config. Page, 34

## D

---

Data In indicator, 24  
Display panel  
    *error messages*, 15

## E

---

Error indicator, 23  
Error messages, 15  
Escape key, 31

## F

---

Fonts, 58

## H

---

Host Interface, 31, 47

## I

---

Interface, 58

## L

---

Language, 31, 56  
List/Test Print, 31, 34

## M

---

Machine configuration, 19, 20  
Machine status, 19  
Macintosh  
    *canceling a job*, 10  
    *setting up, printer driver*, 7  
Mac OS  
    *PostScript 3, uninstalling*, 13  
Mac OS X  
    *PostScript 3, uninstalling*, 13  
Maintenance, 31, 37  
Memory, 58  
    *Memory Unit Type C 64MB*, 61  
menu, changing, 56  
Menu Chart, 29

## N

---

Network Cable, 59  
Network protocol, 58

## O

---

On Line indicator, 23  
On Line key, 23, 31  
Operating system, 59  
Options, 59

## P

---

- Paper Input, 31, 32
- PCL, 53
- PCL Menu, 31
- POSTSCRIPT3 INTERFACE UNIT  
TYPE510, 61
- Printer driver
  - Printer properties, Windows 2000/XP*, 4
  - Printer properties, Windows 95/98/Me*, 3
  - Printer properties, Windows NT 4.0*, 6
  - setting up, Macintosh*, 7
  - uninstalling, Mac OS PostScript 3*, 13
  - uninstalling, Mac OS X PostScript 3*, 13
  - uninstalling, Windows 2000/XP*, 11
  - uninstalling, Windows 95/98/Me*, 11
  - uninstalling, Windows NT 4.0*, 13
- Printer Language, 58
- Printing speed, 58

## R

---

- Resolution, 58

## S

---

- Specifications, 58
- System, 31, 42

## T

---

- telnet, 19
- Troubleshooting, 15
  - error messages*, 15
  - status messages*, 15

## U

---

- UNIX, 19
- USB2.0 Interface Board Type A, 61

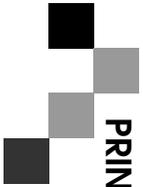
## W

---

- Windows
  - canceling a job*, 9
- Windows 2000/XP
  - printer driver, uninstalling*, 11
  - printer properties, printer driver*, 4
- Windows 95/98/Me
  - printer driver, uninstalling*, 11
  - printer properties, printer driver*, 3
- Windows NT 4.0
  - printer driver, uninstalling*, 13
  - printer properties, printer driver*, 6







**PRINTER INTERFACE UNIT TYPE510 Operating Instructions Printer Reference 2**