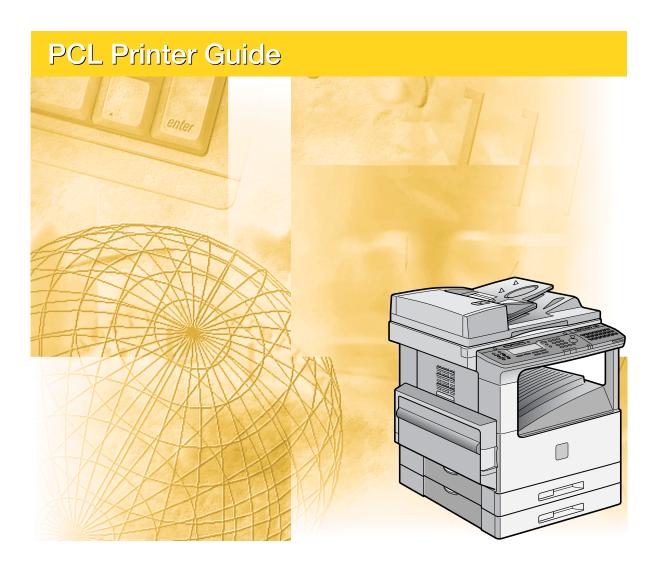
Canon

imageCLASS 2300



Please read this guide before operating this equipment.

After you finish reading this guide, store it in a safe place for future reference.



imageCLASS 2300 PCL Printer Guide



Manuals for the Machine

The manuals for this machine are divided as follows. Please refer to them for detailed information. Some of the manuals listed below are only supplied with the Network Model of this machine.



Guides with this symbol are printed manuals.



Guides with this symbol are PDF manuals included on the accompanying CD-ROM.

• Installing and Setting Up the Machine	Set-Up Sheet for the Machine	
Network and Printer Settings	Set-Up Sheet for Networking and Printing	1
Basic Operations	Basic Guide	
Machine Settings Troubleshooting	Reference Guide	
Copying Instructions	Copying Guide	1
• Fax Instructions	Facsimile Guide	
Sending Instructions	Sending Guide	
Remote User Interface Instructions	Remote UI Guide	CD-ROM
Network Connectivity and Setup Instructions	Network Guide	CD-ROM
PCL Printer Instructions	PCL Printer Guide (This Document)	CD-ROM
PCL Printer Driver Installation and Instructions	PCL Driver Guide	CD-ROM
Fax Driver and Cover Sheet Editor Installation and Instructions	Fax Driver Guide with Cover Sheet Editor	CD-ROM



Chapter 1	Before You Start Using This Machine
Chapter 2	Using the Printer
Chapter 3	Summary of the Printer Menus
Chapter 4	Troubleshooting
Chapter 5	Appendix

Includes the index and summarizes the specifications of the printer.

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Preface

Thank you for purchasing the Canon imageCLASS 2300. Please read this manual thoroughly before operating the machine in order to familiarize yourself with its capabilities, and to make the most of its many functions. After reading this manual, store it in a safe place for future reference.

How to Use This Manual

Symbols Used in This Manual

The following symbols are used in this manual to explain procedures, restrictions, handling precautions, and instructions that should be observed for safety.

WARNING

Indicates a warning concerning operations that may lead to death or injury to persons if not performed correctly. In order to use the machine safely, always pay attention to these warnings.

A CAUTION

Indicates a caution concerning operations that may lead to injury to persons, or damage to property if not performed correctly. In order to use the machine safely, always pay attention to these cautions.

IMPORTANT

Indicates operational requirements and restrictions. Be sure to read these items carefully in order to operate the machine correctly, and to avoid damage to the machine.

∅ NOTE

Indicates a clarification of an operation, or contains additional explanations for a procedure. Reading these notes is highly recommended.

Keys Used in This Manual

The following symbols and key names are a few examples of how keys to be pressed are expressed in this manual:

Control Panel Keys: <Key icon> + (Key Name)

Example: (*)(Start)

(Stop)

• Function Keys: [Key Name] + (Key Option)

Example: [F3] (VALUE)
[F4] (ENTER)

Abbreviations Used in the Manual

In this manual, Microsoft® Windows® is referred to as Windows.

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Before You Start Using This Machine



This chapter describes what you should know and do before printing, such as connecting to a computer, installing the software, and the functions of the printer control panel.

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Features of the Product

Your printer offers fast printing speed, superior print quality, sophisticated paper handling, and ecology and energy sensitive features. The printer also supports network printing. The printer function is only available in the Network Model of this machine.

■ Superior Print Quality

High resolution printing at 600 dpi (dots per inch) is further enhanced by Automatic Image Refinement to smooth jagged edges along with the use of super fine toner. Combined, these will ensure superior reproduction quality of text and graphics.

■ Software Compatibility

The printer supports Hewlett-Packard's PCL 5e and PCL6 printer languages, which enables the printer to work with a wide variety of software applications supporting PCL.

■ Memory Saving Technology

Memory Reduction Technology accomplishes 600 dpi printing with only 8 MB of memory for letter printing. Complex page data is compressed to optimize available resources.

■ Paper Handling

Each paper drawer holds 250 sheets of paper while the Stack Bypass holds about 100 sheets of standard paper. The Stack Bypass can hold a variety of media for automatic feeding and operate as a manual feed station.

■ Energy Saving

The on-demand fusing technology of the printer provides improved energy efficiency. Because of this power saving feature, the printer meets the guidelines for the International Energy Star Program.

■ Interface Features

The printer has a standard IEEE-1284 compatible parallel interface, which supports ECP and Compatible/Nibble protocols. It also supports Microsoft's Plug & Play technology. The printer also has a USB port for easy connection to a personal computer or other USB devices. This printer also features a 10Base-T/100Base-TX port to enable network printing.

■ Typefaces

The printer comes with 45 scalable typefaces in 14 typeface families (Agfa 45 MicroType fonts) and 32 additional TrueType fonts (barcode and OCR fonts), all compatible with application software supporting Microsoft Windows. In addition, 9 bitmapped typefaces of the Line Printer family are also included. The printer uses the Universal Font Scaling Technology (UFST) for outline fonts, provided under license from Agfa-Gevaert Japan, Ltd. Also supplied with the printer are the TrueType screen fonts for 96 font solution and Canon Font Manager for easy management of installed fonts in Microsoft® Windows® 95/98/Me/2000/XP and Windows NT version 4.0. A list of typeface samples is provided in the Appendix.

■ Printer Drivers and Utilities

The printer comes with PCL printer drivers for Microsoft Windows 95/98/Me, Windows 2000/XP, and Windows NT 4.0. This allows you to control most printer settings from the Windows driver screens.

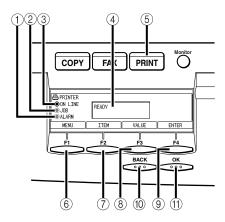
■ Remote UI Support

The printer supports a Remote UI (User Interface) function that allows you to monitor the status of the printer or change the printer settings from a personal computer. (See Chapter 1, "Using the Remote UI," in the *Remote UI Guide*.)

Functions of Printer Control Panel

The following section describes the functions of the keys and indicators of the control panel when used for the printer.

Printer Control Panel



1 ALARM Indicator

On:

An error has occurred and printing has stopped. Check the display for a message describing the problem.

Off:

Operation is normal and there is no error.

If the printer enters Energy Saver Mode while offline, only the ALARM indicator lights, with other indicators turned off.

② JOB Indicator

On

Part of a page has been processed and stored in the printer's memory.

Off

There is no data stored in the printer's memory.

3 ON LINE Indicator

On:

The printer is online (power ON, warmed up and ready to receive data for printing). Before you send a print job, this indicator must be on.

Blinkina:

The printer is processing a print job. Do not turn the power OFF, otherwise you may lose print data. The page is printed when all of the data has been processed.

Off:

The printer is offline. You can now use the control panel keys to view and change settings. When offline, the printer cannot accept data for printing.

4 LCD Display

Displays messages and prompts during operation. Displays selections, text, numbers, and names when registering information.

(5) [PRINT] Key

Press to switch the machine to Printer mode.

⑥ [F1] (MENU) Key

When the printer is offline, press this key to scroll through the menu names. To scroll through menu names in reverse order, press [BACK].

Depending on what options are installed, some menu names may not appear.

7 [F2] (ITEM) Key

With a menu name displayed, press this key to scroll through all the items on a menu. To scroll through the items in reverse order, press [BACK]. Depending on what options are installed, some items may not appear.

® [F3] (VALUE) Key

With an item name displayed, press this key to scroll through the item's values. To scroll through the values in reverse order, press [BACK].

Some items have a large range of numbers from which to choose a value. For example, for COPIES you can set a value from 1 to 999. In this case, to quickly scroll through the values, hold down this key.

9 [F4] (ENTER) Key

Saves a value you selected for an item in the menu. An asterisk (*) marks the current default setting.

(ii) [BACK] Key

Press this key and display <SHIFT> on the LCD display to scroll through menus, setting items, or values in reverse order.

Press it again to scroll through menus, setting items, or values in forward order.

① [OK] Key

Takes the printer offline and brings it back online. When the ON LINE indicator is on, the printer is ready to receive data and print. When the ON LINE indicator is off, the printer is offline and you can use the other keys on the control panel to view and change settings.

Resumes printing after the printer stops printing and displayed a message. For most situations, after you press this key, the message clears and printing resumes.

To perform a form feed and print any data remaining in the printer, press this key twice in succession.

To cancel

Press [BACK] and [F4] (ENTER) to cancel the current operation.

If a cancel operation is performed while the printer is receiving data, this will cause the input data to be flushed from the printer's memory. In this case, <READY/FLUSHING...> will appear on the display while the data is being flushed. <READY> appears after the data has been flushed from memory.

To cancel a print job, press [OK] to take the printer offline, and press [BACK] → [F4] (ENTER).

Connecting to a Computer

Connect the machine to a computer or network using an interface cable supporting bidirectional communication or a 100Base-TX or 10Base-T Ethernet cable.



IMPORTANT

To avoid risk of a shock hazard, turn OFF the main power switch located on the right side of the machine and unplug the power cord from the power outlet, before connecting an interface cable or network cable. (See Chapter 1, "Before You Start Using This Machine," in the Reference Guide.)



NOTE

This machine is not supplied with an interface cable or a network cable. Please purchase the cable to match your computer or network.

Connecting to a Network

This machine has a built-in print server that is compatible with TCP/IP to allow use as a network printer for UNIX and Windows. The print server is supplied with a 100Base-TX/10Base-T port, therefore you can simply connect it to a LAN.

The connection examples in this section show you how to connect this machine to a network, depending on the type of LAN.

You need a LAN cable and hub to connect the machine to your network.

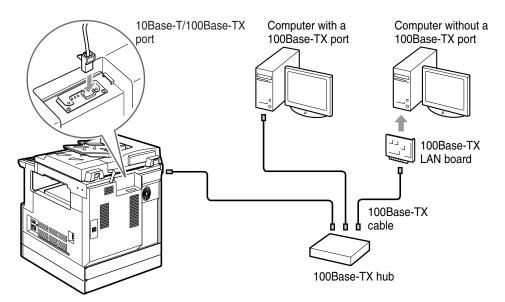


∧ NOTE

- The print server of this machine is compatible with a NetWare[®] network. For details. contact your service representative.
- The print server of this machine automatically detects the connected 100Base-TX or 10Base-T interface.
- · After connecting the network cable, perform the following setups. For details of each setup, consult the corresponding manual.
 - Installing the printer driver. (See "Installing the Software," on p.1-13)
 - Date/time setting and system management setting. (See Chapter 3, "Selecting and Storing Settings," and Chapter 5, "System Manager Settings," in the Reference Guide.)
 - Print server and network settings. (See Chapter 2, "Using a TCP/IP Network (Windows/ UNIX)," in the Network Guide.)

Connecting to a 100Base-TX network

Connect the 10Base-T/100Base-TX port to the hub port using a Category 5 rated twisted-pair LAN cable for the 100Base-TX network. If your computer is not compatible with the 100Base-TX network, you would also need a 100Base-TX network board.

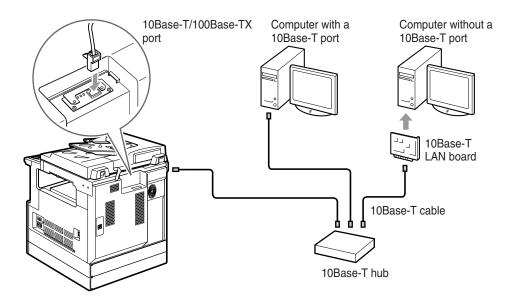




The hub, LAN cable, and network board to be connected to the LAN should be compatible with the 100Base-TX network. For details, contact your service representative.

Connecting to a 10Base-T network

Connect the 10Base-T/100Base-TX port to the hub port using a Category 3 or higher rated twisted-pair LAN cable for the 10Base-T network. If your computer is not compatible with the 10Base-T network, you would also need a 10Base-T network board.



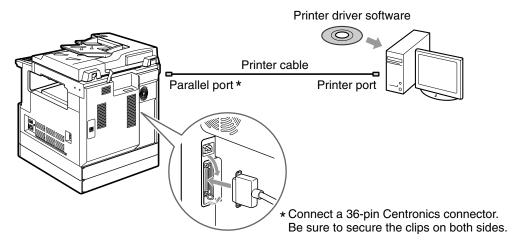
Connecting through a Parallel Interface

This machine can connect to a computer through a parallel interface. After connection, install the supplied printer driver and utility software to match the OS of your computer.

For installing the printer driver and utility software, see "Installing the Software," on p. 1-13.

Connecting to a DOS/Windows computer

The printer port of an IBM PC/AT and other DOS/Windows compatible computers is normally a parallel port (IEEE-1284 compliant). Connect the parallel port of this machine to the printer port of the computer using an interface cable to match your computer.

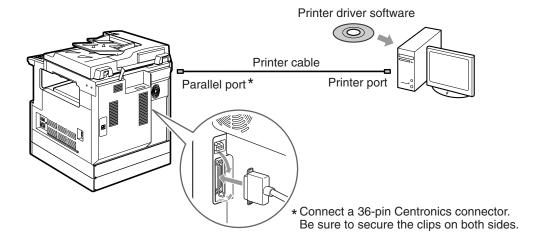


IMPORTANT

If you have connected a computer to the parallel port of this machine, some utility software cannot be used. For details, contact your service representative.

Connecting to other computers

If the printer port of your computer is a parallel port (IEEE-1284 compliant), connect the parallel port of this machine to the printer port of the computer using an interface cable to match your computer.



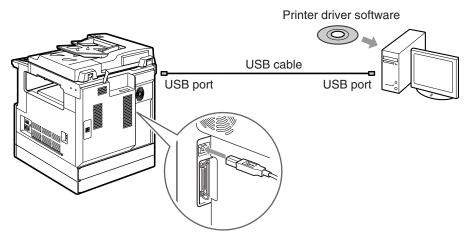
Connecting through a USB Interface

This machine can connect to a computer through a USB interface. After connection, install the supplied printer driver and utility software to match the OS of your computer.

For installing the printer driver and utility software, see "Installing the Software," on p. 1-13.

Connecting to a DOS/Windows computer

Connect the USB port of this machine to the USB port of the computer using an interface cable to match your computer.

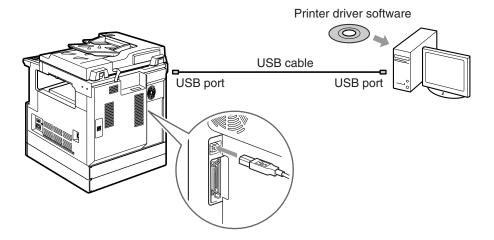


IMPORTANT

If you have connected a computer to the USB port of this machine, some utility software cannot be used. For details, contact your service representative.

Connecting to other computers

If your computer has a USB port, connect the USB port of this machine to the USB port of the computer using a USB cable to match your computer.



Installing the Software

Before printing, you need to install the printer driver and utility software on your computer. Install the software to match your computer.

For Windows

To print from a Windows 95/98/Me, Windows 2000/XP or Windows NT 4.0 computer, install the printer driver and utility software from the supplied CD-ROM.

The following software is included in the supplied CD-ROM.

■ PCL Printer Driver

This is essential software when you print from Windows applications. Be sure to install this software (included on the Driver Software CD-ROM).

■ NetSpot Console or NetSpot Device Installer

This printer utility software allows you to display the printer status connected to a computer or network on the computer screen. You can set the printer and network settings, and operate the printer from the connected computer in the same way as from the control panel. Install this software if necessary (included on the Network User Software CD-ROM).



Windows 95 is not supported by NetSpot Console or NetSpot Device Installer.



For the details of the printer drivers and the installation of the software, see the *PCL Driver Guide*.

For DOS

Select this printer or a compatible printer on the printer setting window of the application software.



For details on the printer setting, refer to the operation manual of the application software.

When Connected to a Network

Install NetSpot Console from the Network User Software CD-ROM provided with the machine.



- For the system requirements for NetSpot Console and instructions on how to install the software, see the *NetSpot Console User's Guide* or the Readme file.
- When this machine is connected to a network, you need to set up the Network OS (NetWare, UNIX, etc.). For these settings, see Chapter 1, "Before You Start," in the Network Guide.
- When this machine is connected to a network, print "PRINT EN CONFIG" from the TEST MENU to check the MAC address of the printer. Then set up the Network OS (NetWare, UNIX, etc.).

Using the Printer



This chapter describes the basics of how to use the printer.

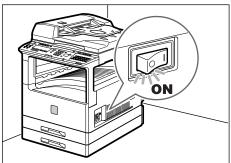
Entering the Printer Mode

This section describes how to enter the printer mode.

When you enter the printer mode, the printer gets ready for printing after automatically checking the status of the machine and any options installed.

1 Press the "I" side of the power switch located on the right side of the machine, if the power of the machine is turned OFF.

The power is turned ON and the indicators and the LCD display on the control panel are turned on.



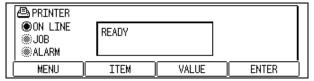
PRINT

2 Press [PRINT].

The indicator of the key lights up.

If there are no errors found, the ON LINE indicator lights up, and the printer is ready to print.

The information shown on the LCD display is as follows:



IMPORTANT

If the printer does not operate normally or an error message is shown, see "Printer Trouble," on p. 4-4.

Turning OFF the Printer

Follow the procedure below to turn OFF the power.



- If the printer is connected to a network, make sure that the printer is not printing data from another personal computer before turning OFF the power.
- If the power is turned OFF while the JOB indicator is on, the print data remaining in the memory of the printer are erased. Wait for the necessary print data to be printed and turn OFF the power after printing has been completed.
- Do not turn OFF the power to the printer while it is printing.
- Do not turn OFF the power to the printer during the self-diagnostic test performed immediately after the power has been turned ON.



1 Press [PRINT].

The indicator of the key lights up.

2 Make sure that the JOB indicator is off.



3 Press the "O" side of the power switch, on the right side of the machine.

The power is turned OFF.

About Online and Offline

The state in which the printer can receive data from a personal computer and can print the data is called "online" and the state in which the printer cannot receive data is called "offline". The printer should be offline when you operate the printer using the menu on the control panel.

Online

When the printing data is coming from a personal computer, it is necessary that the printer is online. Make sure that the printer is online when you print. If the printer is not online, bring the printer online as described in the following procedure.



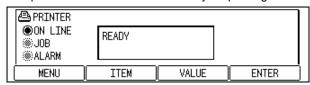
1 Press [PRINT].

The indicator of the key lights up.



Press [OK] to turn on the ON LINE indicator.

The printer comes online and is ready for printing.



IMPORTANT

- When the printer is in the error status (when the ALARM indicator is on or the digit
 part of the message is flashing), the printer will not be able to go online. Remove
 the cause of the error before bringing the printer online.
- The printer does not come online during operations such as selecting a menu function, a paper feeding procedure, or setting the paper size. Finish the operation before bringing the printer online.
- Do not open the cover of the machine or the paper drawer while printing. If it is opened, the printer will stop printing and the printer may not be able to resume printing again.

Saving the Power Consumption (Energy Saver Mode)

After a specific time period has passed without any operation or without any data sent from the personal computer, the printer automatically switches to Energy Saver Mode. The Energy Saver Mode is automatically canceled when any of the keys on the control panel are pressed or an error occurs. Energy Saver Mode is also canceled if the printer has received data while it is online. Energy Saver Mode is also canceled when the error has been canceled while the printer is offline.

Offline

It is necessary that the printer is offline when you use the menu on the control panel, select the paper feeding method or set the paper size. Check that the printer is in the offline state when you use keys on the control panel. If not, set the printer to the offline state using the following procedure.



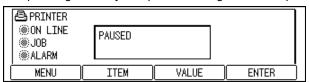
1 Press [PRINT].

The indicator of the key lights up.



Press [OK] to turn off the ON LINE indicator.

The printer gets ready for operation using the control panel.



IMPORTANT

If you try to print data from the personal computer while the printer is offline, the message <PAUSED> is shown and the printer is not available for printing.

Canceling a Print Job

After you cancel a print job from your software application, the printer may still have data remaining in the printer memory. Follow the procedure below to cancel a print job from the printer control panel.



∅ NOTE

You can also cancel print jobs from the Remote UI. For details, see Chapter 2, "Remote UI Functions," in the Remote UI Guide.

Cancel the print job with your software application. For details, refer to your software application user's guide.

If you do not take care to stop the flow of data from the host computer, the printer will continue to print out any data it receives after <READY> has appeared.

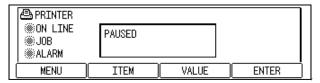


Press [PRINT].

The indicator of the key lights up.

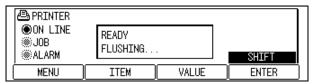


Press [OK] to take the printer offline.





Press [BACK] → [F4] (ENTER) to cancel the print job being processed.



The print job is canceled, and the message <READY> appears on the display.

Deleting a Print Job Log

You can delete a print job log from the printer control panel.

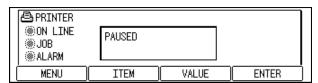


1 Press [PRINT].

The indicator of the key lights up.

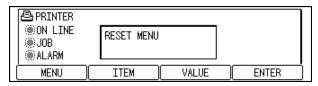


2 Press [OK] to take the printer offline.



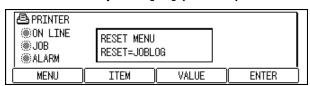


3 Press [F1] (MENU) until <RESET MENU> appears on the display.





4 Press [F2] (ITEM) to display <RESET=JOBLOG> on the bottom line → press [F4] (ENTER).



The print job log in the printer memory is cleared, and the message <READY> appears on the display.

Operating the Menu

This is a brief introduction to the printer control panel keys you can use to open menus, view their contents, or change their settings.

Take a few minutes to actually use the printer control panel keys as you read through this section.

How the Menus Are Organized

■ Quick Summary: Using the menu keys

Key	What it does
OK OK	Press this key to take the printer offline so you can see the menus and settings. The printer must be offline before you can use the menus. When you have finished with the menus, press it again to bring the printer back online.
F1 Menu	Press this key to open the menu display and display the next menu title. Press to scroll through the menu titles until you see the menu you want to use. Press [BACK] → [F1] (MENU) to scroll through the menu titles in reverse order.
Item	With the title of the menu you want to open on the LCD display, press this key to display the first item in the menu. Press to scroll through all the item names. Press [BACK]→ [F2] (ITEM) to scroll through the item names in reverse order.
Value	With the name of the item you want to change on the LCD display, press this key to display the first setting value. Press to scroll through all the values. Press [BACK] → [F3] (VALUE) to scroll through the values in reverse order.
F4 Enter	With the value you want to select on the LCD display, press this key. After you press it, a small asterisk (*) appears next to the value. This indicates that the displayed value is the current setting.
Cancel	Press [BACK] → [F4] (ENTER) to cancel the current operation.
BACK	Press this key to display <shift> on the LCD display to scroll through menus, setting items or values in reverse order. Press it again to scroll through menus, setting items or values in forward order.</shift>

Going Offline for Menu Display and Item Selection

Press [OK] to switch the ON LINE indicator on and off. When the ON LINE indicator is on, the printer is online and ready to print. The printer must be online to receive data from the host computer. Every time you start a print job, check the ON LINE indicator to ensure it is on.

When the ON LINE indicator is off, the printer is offline. The printer must be offline before you can use the [F1] (MENU), [F2] (ITEM), and [F3] (VALUE) keys.

Making a Selection from a Menu

Follow this example procedure to familiarize yourself with how to use the control panel keys to view or change menu settings. The example below shows you how to view or change the density setting.



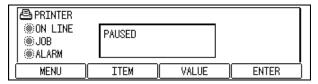
1 Press [PRINT].

The indicator of the key lights up.

2 Check the LCD display to ensure that the JOB indicator is off.

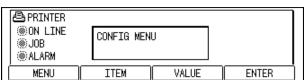


3 Press [OK] to take the printer offline.

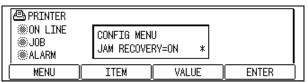




4 Press [F1] (MENU) until <CONFIG MENU> appears on the display.

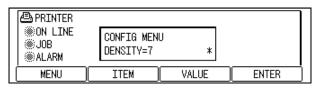






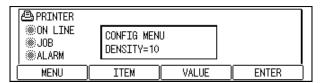


Press [F2] (ITEM) until <DENSITY> is displayed in the bottom line.





Press [F3] (VALUE) to scroll through the values for the **DENSITY** setting.





If you want to change the setting, press [F3] (VALUE) until the value you want is displayed → press [F4] (ENTER).

To use a darker setting, select a higher number. A darker setting will use more toner. To use a lighter setting, select a lower number. A lighter setting will use less toner.

If you want to exit or return to the item level of the menu without making any changes, press (ITEM). If you want to exit or return to the menu level without making any changes, press (MENU). If you want to bring the printer back online without making any changes, press (OK).



NOTE

When the printer is offline and <PAUSED> is displayed on the LCD display, you can cancel a job by pressing \bigcirc (BACK) \rightarrow \bigcirc (ENTER).

Summary of the Printer Menus

This chapter provides a brief outline of the function of each of the printer menus, and an example of how to use them.

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List of Advanced Settings
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3. Summary of the Printer Menus

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List of Standard Settings

The following table lists all settings of the Printer Settings Menu.

Menu Item	Options	Reference Page
Test Show Page Count Test Print Print PCL Fonts Print Job Log Print En Config Continuous Test	Total, Small, Large	p. 3-6
PCL Resolution Copies Pagesize Orientation Form FntSrc FontNum PT. SIZE Pitch SymSet Auto CR Wide A4 Override	600 1 to 999; 1* Letter*, Legal, A3, A4, A5, B4, 11"X17", Com10, Monarch, C5, DL, B5-JIS, B5- ISO, Statement Portrait*, Landscape 5 to 128 lines; 60* Internal 0 to 84; 0* 4.00 to 999.75; 12.00* 0.44 to 99.99 cpi; 10.00* 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, PI FONT, LEGAL, ISO 4, ISO 6, ISO 11, ISO 15, ISO 17, ISO 21, ISO 60, ISO 69, WIN 3.0, MC TEXT, PC-775, PC-860, PC-865, PC-8 GR, PC-1004, ISO L6, WIN BALT On, Off* On, Off* On, Off*	p. 3-10
FEEDER Feed Tray Switch	Drawer1*, Stack Bypass, Drawer2 On*, Off	p. 3-17

Menu Item	Options	Reference Page
CONFIG Jam Recovery Autocont Density Economy Mode Refine	On, Off* On*, Off 0 to 15; 7* On, Off* On*, Off	p. 3-20

An asterisk (*) indicates the default setting.

List of Advanced Settings

Menu Item	Options	Reference Page
Enter Password Enter Password Incorrect Password Reenter	14 digits Yes*, No	p. 3-24
Parallel Bidirection I/O Timeout	On*, Off 5 to 3000 seconds; 15*	p. 3-27
USB I/O Timeout	5 to 3000 seconds; 15*	p. 3-30
Ethernet I/O Timeout	5 to 3000 seconds; 15*	p. 3-33
Language Lang	English*, Danish, Dutch, Finnish, French, German, Italian, Norwegian, Portuguese, Spanish, Swedish	p. 3-36
Reset Reset	Menu*, JobLog, ErrorLog, JamLog	p. 3-38
Job Log Auto Print Log Per 30 Jobs Auto Clear Log Per 30 Jobs Job Log Full GMT Differential Time Daylight Saving	Yes, No* Yes, No* Stop, Warning* 0.0* Off*	p. 3-40

An asterisk (*) indicates the default setting.

Test Menu

About Test Menu

This menu is used to print test prints and other configuration details for the printer. See p. 3-8 for additional details.

Operation Flow for Test Menu

Use the example procedure below to open the Test Menu and specify the option you want to select.



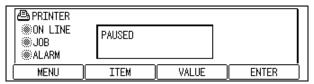
1 Press [PRINT].

The indicator of the key lights up.

2 Check the control panel to ensure that the Job indicator is off.

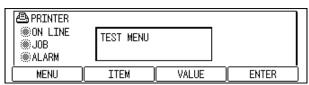


3 Press [OK] to take the printer offline.



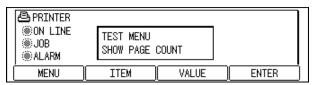


Press [F1] (MENU) until <TEST MENU> appears on the display.



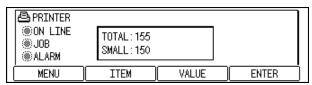


Fress [F2] (ITEM) to display the item that you want to set or change → press [F4] (ENTER).



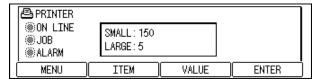
If you choose any option other than <SHOW PAGE COUNT>, go to step 9.

6 If you choose <SHOW PAGE COUNT> in step 5, the total number of pages and total number of small pages are displayed.





7 Press [F3] (VALUE) to display the number of small and large pages.





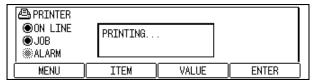
8 Press [OK] to put the printer back online.





9 After you choose <TEST PRINT>, <PRINT PCL FONTS>, <PRINT JOB LOG>, <PRINT EN CONFIG>, or <CONTINUOUS TEST> → press [F4] (ENTER).

10 Printing starts automatically.



After printing, the display changes to <READY>.

SHOW PAGE COUNT

XXX

This displays the number of pages printed by the printer.

TOTAL

This displays the total number of pages, of all sizes, printed by the printer.

SMALL

This displays the number of small pages printed by the printer.

LARGE

This displays the number of large pages printed by the printer.

TEST PRINT

Prints the Test Print and lists the printing environment settings. Also displays graphic and text printing capabilities.

PRINT PCL FONTS

Prints the PCL Font List.

PRINT	JOB LOG
	-
	Prints the Job Log.
PRINT	EN CONFIG
	-
	Prints the Ethernet configuration page.
CONTI	NUOUS TEST
	-
	Prints the Test Print continuously.
	To stop continuous printing, press [F4] (ENTER).

PCL Menu

About PCL Menu

This menu is used to specify various print options for PCL print jobs. See p. 3-11 for additional details.

Operation Flow for PCL Menu

Use the example procedure below to open the PCL Menu and specify the option you want to select.



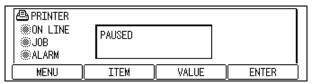
1 Press [PRINT].

The indicator of the key lights up.

Check the control panel to ensure that the Job indicator is off.

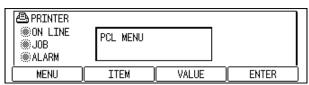


3 Press [OK] to take the printer offline.

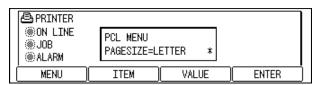




4 Press [F1] (MENU) until <PCL MENU> appears on the display.

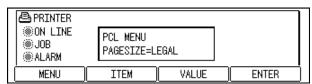






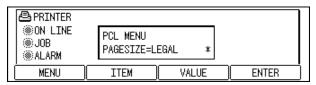


6 Press [F3] (VALUE) to scroll through the choices for that setting.



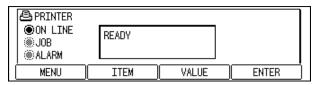


7 Press [F4] (ENTER) to set the new value.





8 Press [OK] to put the printer back online.



RESOLUTION

600

Displays the printer resolution in dots per inch (dpi) used for print jobs.

COPIES

1 to 999: 1*

Sets the number of copies to be printed for each print job.

1 copy is printed for each page.

To increase the number, press [F3] (VALUE). To quickly scroll through the numbers in increments of 10, hold down [F3] (VALUE).

To decrease the number, press [BACK] → [F3] (VALUE). To quickly scroll through the numbers in decrements of 10, press [BACK] → hold down [F3] (VALUE).

PAGESIZE

LETTER*, LEGAL, A3, A4, A5, B4, 11" × 17", COM10, MONARCH, C5, DL, B5-JIS, B5-ISO, STATEMENT

Sets the size of the image the printer creates in the memory. The software application determines the image size. If the print job does not specify the image size, then PAGESIZE in the PCL MENU will be used.

ORIENTATION

PORTRAIT*, LANDSCAPE

Sets the direction of printing on the page to Portrait or Landscape.

PORTRAIT

Prints from left to right across the width of the page (letter style).

LANDSCAPE

Prints from bottom to top across the length of the page. Landscape orientation is convenient for spreadsheets or other printouts that require increased width for printing.



∧ NOTE

The printer can rotate all fonts to make any of the resident fonts available for either portrait or landscape printing.

5 to 128 Lines; 60*

This determines the number of lines of text printed on one page. Change this setting only if you have a software application that does not enable you to set the page length, lines per page, or lines per inch.

FNTSRC

INTERNAL

This (Font Source) item shows you that the machine uses internal (resident) fonts.

FONTNUM

0 to 84; 0*

This (Font Number) setting enables you to set the default font by its number. The printer assigns a font number to every typeface. Print a PCL Font List to see the numbers assigned to the fonts. The font number (Font #) is the first column in the list.

0

Courier is selected unless you change the setting.

1-84

To increase the number, press [F3] (VALUE). To quickly scroll through the numbers in increments of 10, hold down [F3] (VALUE).

To decrease the number, press [BACK] → [F3] (VALUE). To quickly scroll through the numbers in decrements of 10, press [BACK] → hold down [F3] (VALUE).

4.00 to 999.75; 12.00*

The Point Size setting is the measured vertical height of a typeface. There are 72 points per inch, so a 36 point font is half an inch high, measured from the top of the uppercase letters to the tail of the letter y.

If the font selected in the FONTNUM setting is a bitmap or fixed spacing font, this item will not appear for selection.

12.00

The printer font source is set for 12 point.

4.00 to 999.75

To increase the number in increments of 0.25, press [F3] (VALUE). To quickly scroll through the numbers in increments of 1.00, hold down [F3] (VALUE).

To decrease the number in decrements of 0.25, press [BACK] \rightarrow [F3] (VALUE). To quickly scroll through the numbers in decrements of 1.00, press [BACK] \rightarrow hold down [F3] (VALUE).

PITCH

0.44 to 99.99 cpi; 10.00*

Pitch is measured as the number of equally spaced characters per inch.

PITCH appears only if the font source you selected with FNTSRC (font source) and FONTNUM (font number) above is a scalable font in a fixed pitch typeface. Use this item to set the pitch of the font.

10.00

The selected pitch is 10 characters per inch.

0.44 to 99.99

To increase the number in increments of 0.01, press [F3] (VALUE). To quickly scroll through the numbers in increments of 1.00, hold down [F3] (VALUE).

To decrease the number in decrements of 0.01, press [BACK] \rightarrow [F3] (VALUE). To quickly scroll through the numbers in decrements of 1.00, press [BACK] \rightarrow hold down [F3] (VALUE).

SYMSET

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, PI FONT, LEGAL, ISO 4, ISO 6, ISO 11, ISO 15, ISO 17, ISO 21, ISO 60, ISO 69, WIN 3.0, MC TEXT, PC-775, PC-860, PC-865, PC-8 GR, PC-1004, ISO L6, WIN BALT

SYMSET (symbol set) enables you to select the symbol set, a collection of letters, numbers, punctuation marks and special symbols.

"Symbol Sets Supported," on p. 5-13, shows the names of internal symbol sets you can select.

If the currently selected font does not support the orientation or symbol set you have selected, the control panel font selection returns to the factory default setting.

AUTO CR

ON, OFF*

This appends a CR (carriage return) to each line feed for the print job. Some environments, such as UNIX, indicate a new line using only the line feed control code. This option automatically appends the required CR to each line feed.

If the currently selected font does not support the orientation or symbol set you have selected, the control panel font selection returns to the default setting.

OFF

The printer does not append a CR to each line feed.

ON

The printer appends a CR to each line feed automatically.

ON, OFF*

WIDE A4 changes the number of characters that can be printed on a single line of A4 paper. This feature only applies to A4 paper. When this feature is set to 'on', the right and left margins narrow to about 1/8" [3 mm].

OFF

Up to seventy-eight 10-pitch characters can be printed on one line.

ON

Up to eighty 10-pitch characters can be printed on one line.

OVERRIDE

ON, OFF*

This changes LTR (Letter) size requests from the printer driver to A4 size or vice versa. Either A4 or Letter size paper should be loaded in the printer.

OFF

The printer does not override paper size A4 with letter or vice versa.

ON

The printer overrides paper size A4 with letter or vice versa.

Feeder Menu

About Feeder Menu

This menu is used to specify the paper size loaded in each of the paper sources (drawers and stack bypass) and to select other paper feed options. See p. 3-19 for additional details.

Operation Flow for Feeder Menu

Use the example procedure below to open the Feeder Menu and specify the option you want to select.



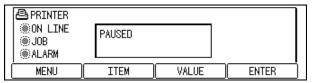
1 Press [PRINT].

The indicator of the key lights up.

2 Check the control panel to ensure that the Job indicator is off.



3 Press [OK] to take the printer offline.

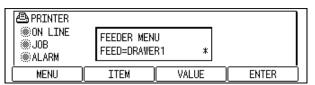




4 Press [F1] (MENU) until <FEEDER MENU> appears on the display.

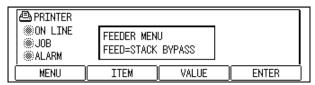






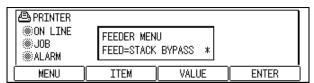


6 Press [F3] (VALUE) to scroll through the choices for that setting.



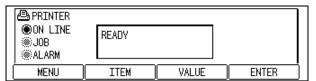


7 Press [F4] (ENTER) to set the new value.





8 Press [OK] to put the printer back online.



DRAWER1*, STACK BYPASS, DRAWER2

FEED (feed source) enables you to determine the paper source (drawer and stack bypass). The software application selects the paper source. If the print job does not specify the paper feed source, then FEEDER MENU settings will be used. If the paper size you have selected is not loaded, the printer will display a message to tell you which feed source to load the required paper size into.

STACK BYPASS

Sets the Stack Bypass as the paper feed source to function as an automatic feed tray.

The Stack Bypass performs two important functions. Firstly, it can be used as an automatic feed tray for standard or special media, such as transparent film or adhesive labels. Secondly, it can also be used as a manual feed tray, for feeding media one sheet at a time.

DRAWER1, DRAWER2

Sets the standard 250 sheet drawer as the paper feed source.

TRAY SWITCH

ON*, OFF

TRAY SWITCH enables the printer to switch paper feed to the another tray (drawer or Stack Bypass) if the selected drawer or Stack Bypass is out of paper or contains the wrong size paper.

ON

The printer checks the other drawers in order of capacity: standard 250 sheet drawer or the Stack Bypass.

OFF

The printer displays an error message and asks you to load the correct paper in the drawer.

Config Menu

About Config Menu

This menu is used to specify various configuration options for the printer, such as toner density. See p. 3-22 for additional details.

Operation Flow for Config Menu

Use the example procedure below to open the Config Menu and specify the option you want to select.



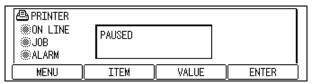
1 Press [PRINT].

The indicator of the key lights up.

Check the control panel to ensure that the Job indicator is off.

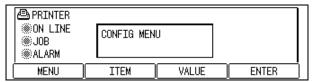


3 Press [OK] to take the printer offline.





4 Press [F1] (MENU) until <CONFIG MENU> appears on the display.

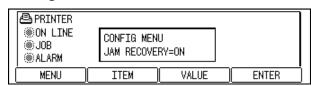






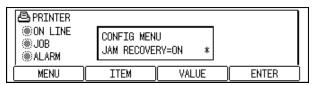


6 Press [F3] (VALUE) to scroll through the choices for that setting.



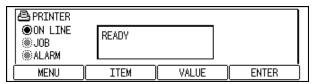


7 Press [F4] (ENTER) to set the new value.





8 Press [OK] to put the printer back online.



JAM RECOVERY

ON. OFF*

This setting enables printing to resume automatically once a paper jam has been removed.

OFF

The printer does not resume printing automatically after the paper jam has been removed. You must start the printing manually again. You may want to use this setting to conserve memory.

ON

The printer reserves enough memory to hold the data for the page that jams and automatically reprints the page that jammed. With this setting, printing speed is slightly slower. Use this setting if there is sufficient memory available.

AUTOCONT

ON*, OFF

AUTOCONT (automatic continue) determines how the printer reacts to errors. If the printer is part of a network or remote spooling system, set AUTOCONT to 'on'.

ON

The printer displays a message, goes offline for about 10 seconds and then automatically goes back online and resumes printing.

OFF

The printer displays a message, goes offline and waits for you to correct the problem. Press [OK] to resume operation.

DENSITY

0 to 15; 7*

This setting refers to the relative darkness of print on the paper.

For a darker setting, select a higher number. A darker setting consumes more toner.

For a lighter setting, select a lower number. A lighter setting consumes less toner.

7

Standard density setting.

0 to 15

To increase the number, press [F3] (VALUE). To quickly scroll through the numbers, hold down [F3] (VALUE).

To decrease the number, press [BACK] \rightarrow [F3] (VALUE). To quickly scroll through the numbers, press [BACK] \rightarrow hold down [F3] (VALUE).

ECONOMY MODE

ON, OFF*

ECONOMY MODE is a cost saving feature that can extend the life of your toner cartridge by using less toner to print documents. Documents printed in the economy mode are lighter, but ideal for printing and checking rough drafts. The economy mode is similar to the draft mode found on some dot matrix printers.

OFF

The printer uses a normal amount of toner for printing.

ON

The printer uses less toner for printing and the printed page appears much lighter.

REFINE

ON*, OFF

This setting enables you to enhance the print quality of characters and graphics by smoothing the gradations along the angles and curves of printed images.

ON

Printing with automatic image refinement. Jagged stepping along angles and curves is smoothed.

OFF

No automatic image refinement.

Enter Password Menu

About the Enter Password Menu

This menu is displayed if a password has been set for an administrator. You must enter the password to access the advanced printing option menus. See p. 3-25 for additional details.

Operation Flow for Enter Password Menu

Use the procedure below to open the Enter Password menu and enter the password for the printer.



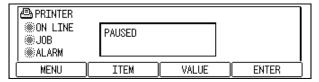
Press [PRINT].

The indicator of the key lights up.

2 Check the control panel to ensure that the Job indicator is off.

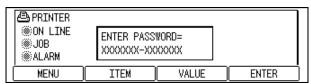


3 Press [OK] to take the printer offline.



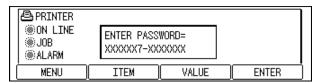


4 Press [F1] (MENU) until <ENTER PASSWORD> appears on the display.





Fress [F3] (VALUE) and [F2] (ITEM) to enter the ID and the password (7 digits each) → press [F4] (ENTER).



- If the ID and password are correct:
 - ☐ The following display appears:



- If the ID and password are not correct:
 - ☐ The following display appears:



Enter the password again.

ENTER PASSWORD

14 digits

This setting is used to set the ID and password for the printer.

Press [F3] (VALUE) to increase the value of each number in the password, or press [BACK] \rightarrow [F3] (VALUE) to decrease the number.

Press [F2] (ITEM), or [BACK] \rightarrow [F2] (ITEM) to select the number you wish to change.

Press [F4] (ENTER) to accept the currently displayed password.

INCORRECT PASSWORD REENTER

YES*, NO

This is used to specify whether you want to reenter the password, if the password entered is incorrect.

YES

This enables you to reenter the password.

NO

This exits the password menus.

Parallel Menu

About Parallel Menu

This menu is used to specify the default printer interface settings for jobs received via the parallel interface port. See p. 3-28 for additional details.

Operation Flow for Parallel Menu

Use the example procedure below to open the Parallel Menu and specify the option you want to select.



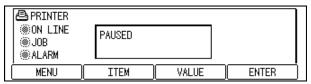
1 Press [PRINT].

The indicator of the key lights up.

2 Check the control panel to ensure that the Job indicator is off.

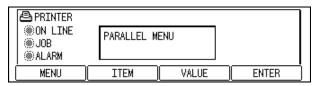


3 Press [OK] to take the printer offline.

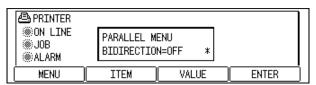




4 Press [F1] (MENU) until <PARALLEL MENU> appears on the display.

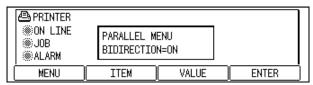






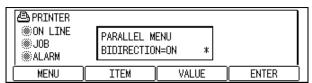


6 Press [F3] (VALUE) to scroll through the choices for that setting.



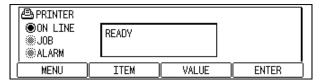


7 Press [F4] (ENTER) to set the new value.





8 Press [OK] to put the printer back online.



BIDIRECTION

ON*, OFF

BIDIRECTION is the ability of the printer to send status read-back messages to the host computer. Although this feature increases reliability in operation, personality switching may be slower.

ON

The printer sends queries and responses about its status to the host computer.

OFF

No query/response and status output are sent from the printer to the host.

I/O TIMEOUT

5 to 3000 seconds; 15*

I/O TIMEOUT (input/output timeout) is the amount of time (measured in seconds) that the printer waits for more data before it ends a print job. If data from other ports frequently arrive during a print job, increase the setting.

This timeout setting is for the parallel interface only.

15

The timeout is set for 15 seconds.

5 to 3000

To increase the number, press [F3] (VALUE). To quickly scroll through the numbers in increments of 10, hold down [F3] (VALUE).

To decrease the number, press [BACK] → [F3] (VALUE). To quickly scroll through the numbers in decrements of 10, press [BACK] → hold down [F3] (VALUE).

USB Menu

About USB Menu

This menu is used to specify the default printer interface settings for jobs received via the USB (Universal Serial Bus) port. See p. 3-31 for additional details.

Operation Flow for USB Menu

Use the example procedure below to open the USB Menu and specify the option you want to select.



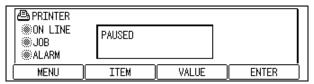
1 Press [PRINT].

The indicator of the key lights up.

Check the control panel to ensure that the Job indicator is off.

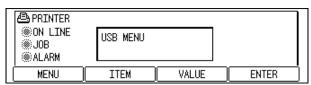


3 Press [OK] to take the printer offline.

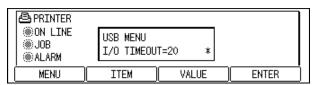




4 Press [F1] (MENU) until <USB MENU> appears on the display.

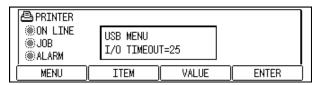






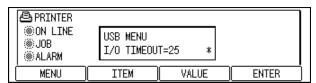


6 Press [F3] (VALUE) to scroll through the choices for that setting.



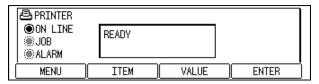


7 Press [F4] (ENTER) to set the new value.





8 Press [OK] to put the printer back online.



I/O TIMEOUT

5 to 3000 seconds; 15*

The I/O TIMEOUT (input/output timeout) setting is the amount of time (measured in seconds) that the printer waits for more data before it ends a print job. If data from other ports frequently arrive during a print job, increase the setting.

This timeout setting is for the USB interface only.

15

The timeout is set for 15 seconds.

5 to 3000

To increase the number, press [F3] (VALUE). To quickly scroll through the numbers in increments of 10, hold down [F3] (VALUE).

To decrease the number, press [BACK] \rightarrow [F3] (VALUE). To quickly scroll through the numbers in decrements of 10, press [BACK] → hold down [F3] (VALUE).

Ethernet Menu

About Ethernet Menu

This menu is used to specify the default printer interface settings for jobs received via the Ethernet network.

Operation Flow for Ethernet Menu

Use the example procedure below to open the Ethernet Menu and specify the option you want to select.



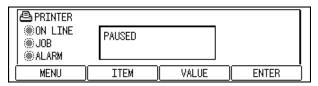
1 Press [PRINT].

The indicator of the key lights up.

2 Check the control panel to ensure that the Job indicator is off.

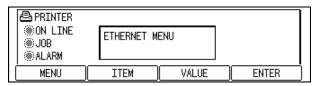


3 Press [OK] to take the printer offline.

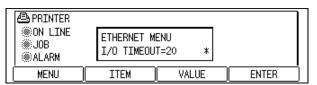




4 Press [F1] (MENU) until <ETHERNET MENU> appears on the display.

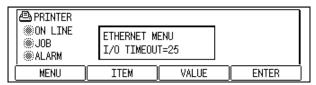






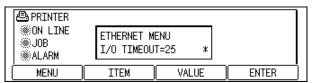


6 Press [F3] (VALUE) to scroll through the choices for that setting.



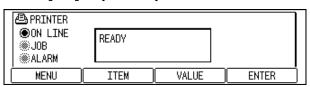


7 Press [F4] (ENTER) to set the new value.





8 Press [OK] to put the printer back online.



I/O TIMEOUT

5 to 3000 seconds; 15*

I/O TIMEOUT (input/output timeout) is the amount of time (measured in seconds) that the printer waits for more data before it ends a print job. If data from other ports frequently arrive during a print job, increase the setting.

15

The timeout is set for 15 seconds.

5 to 3000

To increase the number, press [F3] (VALUE). To quickly scroll through the numbers in increments of 10, hold down [F3] (VALUE).

To decrease the number, press [BACK] \rightarrow [F3] (VALUE). To quickly scroll through the numbers in decrements of 10, press [BACK] → hold down [F3] (VALUE).

Language Menu

About Language Menu

This menu is used to specify the default language for the LCD display on the control panel. See p. 3-37 for additional details.

Operation Flow for Language Menu

Follow the procedure below to specify the language for the LCD display.



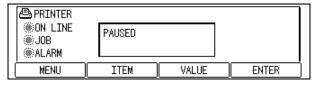
1 Press [PRINT].

The indicator of the key lights up.

2 Check the control panel to ensure that the Job indicator is off.

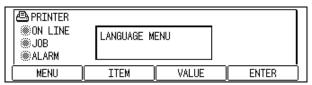


3 Press [OK] to take the printer offline.





Press [F1] (MENU) until <LANGUAGE MENU> appears on the display.







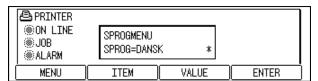


6 Press [F3] (VALUE) to scroll through the choices for that setting.



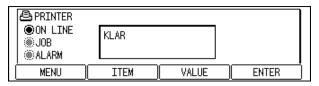


7 Press [F4] (ENTER) to set the new value.





8 Press [OK] to put the printer back online.



LANG

ENGLISH*, DANISH, DUTCH, FINNISH, FRENCH, GERMAN, ITALIAN, NORWEGIAN, PORTUGUESE, SPANISH, SWEDISH

The LANG setting allows you to select the default language setting used for the messages and menu items on the display.

Reset Menu

About Reset Menu

This menu is used to reset settings to their default values. See p. 3-39 for additional details.

Operation Flow for Reset Menu

Use the example procedure below to open the Reset Menu and specify the type of settings you want to reset to their default values.



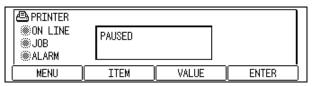
1 Press [PRINT].

The indicator of the key lights up.

2 Check the control panel to ensure that the Job indicator is off.



3 Press [OK] to take the printer offline.



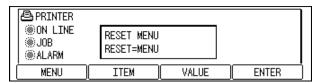


4 Press [F1] (MENU) until <RESET MENU> appears on the display.





Press [F2] (ITEM) to display the item that you want to reset → press [F4] (ENTER).



The display changes to <READY>.

RESET

MENU*, JOBLOG, ERRORLOG, JAMLOG

This resets or clears various settings to their default values.

MENU

Resets most menu items to their default values.

JOBLOG

Clears the job log.

ERRORLOG

Clears the error log.

JAMLOG

Clears the jam log.

Job Log Menu

About Job Log Menu

This menu is used to specify various options for the job log. See p. 3-41 for additional details.

Operation Flow for Job Log Menu

Use the example procedure below to open the Job Log Menu and specify the option you want to select.



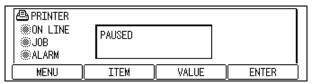
Press [PRINT].

The indicator of the key lights up.

2 Check the control panel to ensure that the Job indicator is off.



3 Press [OK] to take the printer offline.



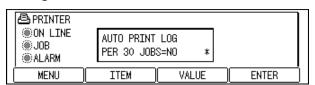


4 Press [F1] (MENU) until <JOB LOG MENU> appears on the display.



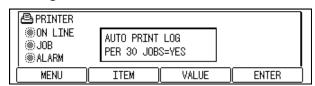


Press [F2] (ITEM) to display the item that you want to set or change.



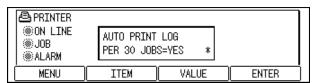


6 Press [F3] (VALUE) to scroll through the choices for that setting.



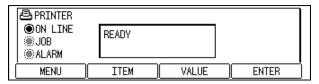


7 Press [F4] (ENTER) to set the new value.





8 Press [OK] to put the printer back online.



AUTO PRINT LOG PER 30 JOBS

YES, NO*

This setting allows you to specify whether to print the job log after 30 jobs have been stored in the log.

YES

Prints the job log automatically after every 30 jobs.

NO

Does not print the job log.

AUTO CLEAR LOG PER 30 JOBS

YES. NO*

This setting allows you to specify whether to clear the job log after 30 jobs have been stored in the log.

YES

Clears the job log automatically after every 30 jobs.

NO

Does not clear the job log.

JOB LOG FULL

STOP, WARNING*

This setting specifies how the printer should respond when the job log becomes full. The job log can store information for up to 32 jobs.

STOP

The printer stops printing when the job log become full.

WARNING

The printer displays a warning message when the job log becomes full, but does not stop printing.

GMT DIFFERENTIAL TIME

0.0*

This displays the time difference from GMT (Greenwich Mean Time) for the time zone where the printer is being used.

DAYLIGHT SAVING

OFF*

This displays whether daylight saving time is used in the time zone where the printer is being used.

OFF

Daylight saving time is not being used.

Troubleshooting

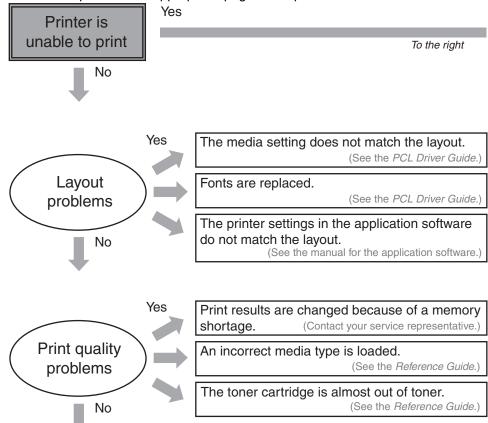


This chapter describes printing problems that can be solved by following a few simple procedures. Do not attempt to solve problems other than those described in this chapter. If you cannot solve a problem, contact your service representative.

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Responding to Error Messages	4-8
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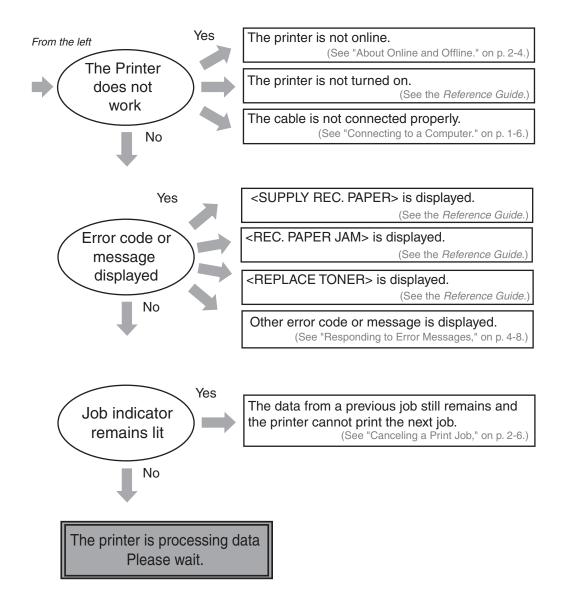
When You Have Trouble Printing

If your printer is unable to print or you have problems with the printer or print quality, use this map to find the appropriate page for help.



Other problems

See "Problems and Solutions Without Messages," on p. 4-4, "Responding to Error Messages," on p. 4-8, and "Other Print Problems," on p. 4-13.



Problems and Solutions Without Messages

Use the following procedures to solve problems that do not cause the printer to display a message.



IMPORTANT

Indicators off and display blank

- Refer to "Responding to Error Messages," on p. 4-8 when messages are displayed.
- If symptoms not specified in this section occur, a problem persists even after following these procedures, or the cause cannot be figured out at all, contact your service representative.

Printer Trouble

Cause 2

Remedy

indicators d	in and display blank.						
Cause 1	Power switch is not turned ON.						
Remedy	Check the power switch to ensure this machine is turned ON.						
Cause 2	Power cord is not connected.						
Remedy	Check the power cord and be sure it is connected at both ends.						
Cause 3	No power at the AC outlet.						
Remedy	Check the AC outlet. Consult an electrician or the local power company. If you are using a power strip, ensure the power lead is connected at the source an turned ON.						
Printing doe	es not start.						
Cause 1	The printer is offline.						
Remedy	Press [OK] to bring the printer online. (See "About Online and Offline," on p. 2-4.)						

Output tray is full of paper during the print job.

Remove the paper in the tray.

- Cause 3 The printer could not receive the data from the host computer because the printer took too long to process the current data in the printer.
- Remedy You may have to increase the I/O TIMEOUT setting or disable it in the ETHERNET MENU, PARALLEL MENU, or USB MENU, (See "I/O TIMEOUT," on p. 3-29, p. 3-31, or p. 3-34.)
- Cause 4 The printer and host computer are not properly connected.
- Remedy Check the cable connection at the host computer and printer. (See "Connecting to a Computer," on p. 1-6.)
- Cause 5 A failure occurred in the printer.
- Remedy Take appropriate measures according to the message on the display. (See "Responding to Error Messages," on p. 4-8.)
- Cause 6 The paper size set in the drawer is different from the paper size you have set up in the application software. Or an appropriate paper size you have set for enlarging or reducing the copy is not set.
- Remedy Change the paper in the selected drawer to the paper size you have set in the application software (or enlarging/reducing copy). Then print it again.
- Remedy Choose the drawer with the appropriate paper size you have set up in the application software (or enlarging/reducing copy). Then print it again.
- Cause 7 Paper in the drawer or the stack bypass has run out.
- Remedy Set more paper. After setting, press [OK] if the machine is not online.

Printing stops.

Cause Printing stops midway during a job and the printer will not print the remaining pages. The flow of data from the host computer has been interrupted for some reason and this has caused a timeout. If no data is received for a specified length of time, the job is terminated.

Remedy You may have to increase the I/O TIMEOUT setting or disable it in the PARALLEL MENU, ETHERNET MENU, or USB MENU. (See "I/O TIMEOUT," on p. 3-29, p. 3-31, or p. 3-34.)

Paper excessively curled after coming out of the printer.

Cause You may be using paper that curls too easily.

Remedy Ensure the paper you are using meets the specifications described in Chapter 2, "Basic Operations," in the Reference Guide. Remove the paper stack, turn it over, reload in the drawer and try again.

Print Problems

Printer not using the font you want.

Cause You have specified a font that is not available.

Remedy Check if the font you specified is available with this printer. (See "Typeface Samples," on p. 5-8, and "Symbol Sets Supported," on p. 5-13.)

First page prints correctly in the font and format specified in the software application, but midway through the job the font and format changes.

Cause The printer has initiated a job timeout. When a job timeout occurs, the downloaded fonts and formatting commands specified in the software application are lost, so printing after the job timeout is completed without the downloaded font and format.

Remedy If the print job came via the parallel port or USB port, increase the I/O TIMEOUT setting or disable it on the PARALLEL MENU or USB MENU. (See "I/ O TIMEOUT," on p.3-29, p. 3-31, or p. 3-34.)

One edge of the document is cut off.

Cause You are attempting to print something outside the printable area of the page.

Remedy Use your software application to adjust the margins of the page. Check and ensure that your software application is not trying to print graphics or text outside the printable area. (See the PCL Driver Guide.)

High jam rates, misfeeds, or multiple sheet feed errors.

Cause You may be using unsuitable paper.

Remedy Always use paper that is suitable for this printer.

Printing garbled text.

Cause 1 The printer selection you made when you set up or installed your software application was incorrect.

Remedy Make sure the correct printer is selected. (See the *PCL Driver Guide*.)

Cause 2 If different portions of the text are garbled every time you print, the interface cable may be too long, and spurious noise is corrupting the data.

Remedy The maximum length for the parallel cable is 10 ft (3 m). If your cable is longer than this, replace it with a shorter cable.

Cause 3 The printer is plugged into an outlet shared with another electrical device capable of generating noise, such as a photocopier, shredder or air conditioner.

Remedy Plug the printer into a different outlet or consult a qualified technician to install a noise filter.

Printing overlap.

Cause

If another print job starts before the current job is finished, the flow of data from the host computer has been interrupted for some reason, and a job timeout has occurred. If data is not received for a specified length of time, the printer initiates a job timeout and terminates the job. After the job timeout, the printer automatically switches to the other interface when there is data waiting.

Remedy

You may have to increase the I/O TIMEOUT setting or disable it in the PARALLEL MENU, ETHERNET MENU or USB MENU. (See "I/O TIMEOUT," on p. 3-29, p. 3-31, or p. 3-34.)

Data originally printed as one page now printing as two or more pages.

Cause

If the time interval of the data sent by the software application to the printer is longer than the time interval before the printer regards a job as completed (the time to job timeout), the printer executes a job timeout, prints out only the data that has already been received, and terminates the job even if it is only partially completed. If the rest of the data is sent after the printer terminates the job, then the printer receives the data as a new job and starts printing on new pages. What was originally formatted to print on one page has been broken up into two or more pages.

Remedy

You may have to increase the I/O TIMEOUT setting or disable it in the PARALLEL MENU, ETHERNET MENU or USB MENU. (See "I/O TIMEOUT," on p. 3-29, p. 3-31, or p. 3-34.)

Responding to Error Messages

If printing is disabled during a print job for some reason, the Alarm indicator will light up and an error message(s) will appear on the display. In addition, for any phenomenon that does not affect printing function of the printer but requires some measure to be taken, a warning message will appear on the display. When any of these messages appear on the display, follow one of the remedies listed to respond to the message.



NOTE

- When two or more problems that are indicated by warning messages occur simultaneously, the corresponding messages will appear alternately.
- When two or more error messages appear on the display simultaneously, warning messages will not appear there.
- For messages attached with <Error Skip>, the printer will be able to continue printing by
 "skipping errors" when you press [OK]. It should be remembered, however, that some
 pieces of print data may be omitted or may not be printed correctly. If you want to stop the
 procedure, perform a software reset and remove the cause. Then press [OK] to start
 printing again.

E001 ERROR CALL FOR SERVICE

Cause

A fuser overheating error.

Remedy

Turn the printer OFF, wait 15 minutes and then turn the printer back ON. If this error persists, turn the printer OFF, unplug power cord from the AC outlet and contact your service representative.

E100-ERROR CALL FOR SERVICE

Cause

A scanner motor or laser unit error.

Remedy

If this error persists, contact your service representative.

E805-ERROR CALL FOR SERVICE

Cause

A fan failure error.

Remedy

Turn the printer OFF, wait 15 minutes and then turn the printer back ON. If this error persists, turn the printer OFF, unplug power cord from the AC outlet and contact your service representative.

E677/6F-61 CALL FOR SERVICE

Cause An internal ROM check error.

Remedy If this error persists, contact your service representative.

E677/6F-7A CALL FOR SERVICE

Cause An SRAM error in the AIR (Automatic Image Refinement) chip.

Remedy If this error persists, contact your service representative.

DRAWER1 MISSING

Cause The drawer is not installed in the printer or is not correctly positioned.

Remedy Install the paper drawer in the printer. If the paper drawer is installed in the printer, remove it, insert it again and make sure it is securely in position. (See Chapter 6, "Routine Maintenance," in the *Reference Guide*.)

DRAWER2 MISSING

Cause The drawer is not installed in the printer or is not correctly positioned.

Remedy Install the paper drawer in the printer. If the paper drawer is installed in the printer, remove it, insert it again and make sure it is securely in position. (See Chapter 6, "Routine Maintenance," in the *Reference Guide*.)

LOAD <size> IN <trays>

<Error Skip>

Cause The indicated paper size needs to be loaded in the indicated paper tray.

Remedy The specified paper source (drawer and stack bypass) must be loaded with the requested paper size. To continue the print job, you may have to press [OK]. If a paper source runs out of paper during printing, reloading the paper source will allow the printer to continue printing. For manual feed, you need to press [OK] to continue printing.

MEM ALLOC ERROR

<Error Skip>

Cause There is not enough memory available to process the data and print the page. If AUTOCONT is 'on' (CONFIG MENU), the print job will resume after 10 seconds.

Remedy If AUTOCONT is 'off', you must press [OK] to resume printing. Check the printed page to ensure that it is complete. (See "AUTOCONT," on p. 3-22.) Cause A memory overflow has occurred.

Remedy

The printer has received more data than it can hold in the available memory on the printer. If AUTOCONT is 'on' (CONFIG MENU), the print job will resume after 10 seconds. If AUTOCONT is 'off', you must press [OK] and the job will continue printing, although data may be lost. Simplify the print job by deleting unnecessary fonts or macros from the printer memory.

MRT COMPRESSION

Cause The printer is using MRT (Mean Repair Time) Compression, which can result in a reduction in print quality (loss compression).

Remedy If this error persists, contact your service representative.

RESTORING DEFAULTS

Cause This message is displayed when <RESET=MENU> is selected in the RESET MENU.

Remedy No action required.

OPTION RAM ERROR

Cause This is an error caused by a RAM (DIMM) installed in the printer.

Remedy Contact your service representative.

PAPER JAM

Cause A paper jam has occurred in the printer.

Remedy Remove the jammed paper. The top cover must be opened and closed to resume printing. Press [OK] to bring the printer back online. (See Chapter 7,

"Troubleshooting," in the Reference Guide.)

TOTAL:####

Cause This message is displayed when <SHOW PAGE COUNT> is selected in the TEST MENU. #### is the total number of pages that have been printed by the printer.

Remedy No action required.

PAUSED

Cause The printer is offline.

Remedy Press [OK] to bring the printer online.

PRINTER OPEN

Cause The machine's cover is open.

Remedy Close the machine's front cover. Press [OK] to bring the printer back online.

PRINTING...

Cause The printer is processing a print job.

> You will see this message if you try to take the printer offline by pressing [OK] during printing. This message is also displayed when you are printing one of the internal demonstration or test pages.

Remedy No action required. Wait for printing to finish.

KEY NOT VALID

Cause This message is displayed when a key that is not enabled in the current function is pressed.

Remedy Press the correct key to complete the current function.

WARMING UP...

Cause The printer is warming up.

Remedy Wait until the printer has warmed up and displays <READY>.

WRONG PAPER SIZE

Cause A paper size mismatch has occurred. More than one paper size has been found in the same tray.

Remedy Inspect the mismatched paper and correct.

PARALLEL INTERFACE ERROR

Cause The parallel port is not communicating with the controller.

Remedy Restart the printer. If this error persists, contact your service representative.

USB INTERFACE ERROR

Cause The USB port is not communicating with the controller.

Remedy Restart the printer. If this error persists, contact your service representative.

Other Print Problems

Correcting Poor Print Quality

Printed text faded or streaked with white.

Cause The level of toner remaining in the toner cartridge may be low, or the toner is not evenly distributed inside the cartridge.

Remedy Replace the toner cartridge. (See Chapter 6, "Routine Maintenance," in the Reference Guide.)

Printed pages are dirty or have white specks.

Cause The fixing roller inside the fixing assembly has become dirty with toner dust.

Remedy Clean the fixing assembly inside the printer. (See Chapter 6, "Routine Maintenance," in the *Reference Guide*.)

Text is too light or too dark.

Cause 1 The printed image on your page is too light or too dark.

Remedy Adjust the print density. (See "DENSITY," on p. 3-22.)

Cause 2 Economy Mode is selected in CONFIG MENU.

Remedy Set ECONOMY MODE to 'OFF' in CONFIG MENU. (See "ECONOMY MODE," on p. 3-23.)

Black spots on the top and back of the printed pages

Cause The fixing roller inside the fixing assembly unit may be dirty.

Remedy Clean the fixing roller. (See Chapter 6, "Routine Maintenance," in the *Reference Guide*.)

Black stripes appear on multiple sheets in sequence

Cause The drum inside the toner cartridge is old or damaged.

Remedy Replace the toner cartridge. (See Chapter 6, "Routine Maintenance," in the Reference Guide.)

Appendix

This chapter contains the index and summarizes the specifications of the printer.

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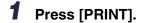
Checking the Printer Operation

You can use the test print to check the configuration of the printer, and the font list to check the fonts installed on the printer.

Configuration Page

Follow the procedure below to print the test print (Configuration Page). A description of the information included in the test print is provided on the following pages.





The indicator of the key lights up.



2 Press [OK] to take the printer offline.

The ONLINE indicator should go off. <PAUSED> will appear in the display.



3 Press [F1] (MENU) until <TEST MENU> appears on the display.



4 Press [F2] (ITEM) until <TEST PRINT> appears in the bottom line.



Press [F4] (ENTER) to start printing the test print.

ndix 61

Canon iC2300 Configuration Page

TEST MENU
SHOW PAGE COUNT
TEST PRINT
PRINT PCL FONTS
PRINT JOB LOG
CONTINUOUS TEST

PCL MENU
RESOLUTION = 600
COPIES = 1
PAGESUZE = LETTER
ORIENTATION = PORTRAIT
FORM = 60 LINES
FMTSRC = INTERNAL
FONTNUM = 0
PT.SIZE = 12.00
PTICM = 10.00
SYMSET = ROMAN-B
AUTO CR = 0 FF

PRINT EN CONFIG

WIDE A4 = OFF OVERRIDE = OFF 3 FEEDER MENU FEED = DRAWER1 TRAY SWITCH = ON CONFIG MENU

JAM RECOVERY = OFF
AUTOCONT = ON
DENSITY = 7
ECONOMY MODE = OFF
REFINE = ON

PARALLEL MENU
BIDIRECTION = ON
1/O TIMEOUT = 15

6 USB MENU
1/0 TIMEOUT = 15

7 ETHERNET MENU
1/0 TIMEOUT = 15

8 LANGUAGE MENU

RESET MENU
RESET = MENU
RESET = JOB LOG
RESET = JOB LOG
RESET = JAM LOG

Canon

JOB LOG MENU
AUTO PRINT LOG PER 30 JOBS = NO
JOB LOG FULL = WARNING
GMT DIFFERENTIAL TIME = 0.0
DAYLIGHT SAVING = OFF

11) INSTALLED OPTIONS
DRAWER2
ETHERNET

TOTAL MEMORY = 8 MB

| PRINTER DETAILS 2003/02/03 10:26:38 | CODE LEVELS | CTL V2.00 EU 2002/07/31 | Engine Version 1.29 | Serial Number 1 | PCL PeerlessPrint5-E PP5E V1.5.0 | PCLXL PeerlessPrintXL PPXL V1.2.0 | EN 3.10 | PSIO 3.03 04/01/97 | PAGE COUNT = 251 | SMALL COUNT = 251 | LARGE COUNT = 0

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1) TEST MENU

Displays the test menu options. (See p. 3-6)

2 PCL MENU

Shows the PCL print job settings, as determined by the PCL MENU options. (See p. 3-10)

③ FEEDER MENU

Displays the settings for the paper feed options for the printer, as determined by the FEEDER MENU options. (See p. 3-17)

4 CONFIG MENU

Displays the printer configuration as determined by the CONFIG MENU options. (See p. 3-20)

⑤ PARALLEL MENU

Displays the parallel interface settings, as determined by the PARALLEL MENU options. (See p. 3-27)

6 USB MENU

Displays the USB interface settings, as determined by the USB MENU options. (See p. 3-30)

7) ETHERNET MENU

Displays the Ethernet interface settings, as determined by the ETHERNET MENU options. (See p. 3-33)

(8) LANGUAGE MENU

Displays the language setting. (See p. 3-36)

9 RESET MENU

Displays the reset menu options. (See p. 3-38)

10 JOB LOG MENU

Displays the job log settings, as determined by the JOB LOG MENU options. (See p. 3-40)

(f) INSTALLED OPTIONS

Displays a list of the devices installed on the printer and the total memory.

12 PRINTER DETAILS

Displays the printer ROM DIMM version, version numbers of installed devices, and the page counts.

Font List

Follow the procedure below to print the font list. A description of the information included in the font list is provided on the following pages. Samples of the standard typefaces included with the printer are shown in (See "Typeface Samples," on p. 5-8)



Press [PRINT].

The indicator of the key lights up.



2 Press [OK] to take the printer offline.

The ON LINE indicator should go off. <PAUSED> will appear in the display.



Press [F1] (MENU) until <TEST MENU> appears on the display.



Press [F2] (ITEM) until <PRINT PCL FONTS> appears in the bottom line.



Press [F4] (ENTER) to start printing the test page.

It may take a few minutes for the font list to print.

				Font	List				
1) (2	_	4 5	6	7	8	9		10	,
Font Fon	t Symbol Set	/PS (cpi)	Point Size	Style	Stroke Weight	Name Typef		Defau Orier	
"PERMANEN"	T" SOFT FONTS	<u>s</u>							
INTERNAL	FONTS								
1000	ROMAN-8	F Scale		Upright	Medium	Courier		Port	ACCETGHIJ°ÇÑ;¿£§ê#\$@[]^'{ }~12 <esc>(8U<esc>(sOp h0s0b4099)</esc></esc>
1001	ROMAN-8	P	Scale	Upright	Medium	CG Times		Port	$\label{eq:condition} $$ \underset{\text{esc} \in \text{BUSesc} \in \text{Sip_v0s0b4101T}}{\text{ABCDEfghij}} \hat{A}^\circ \hat{C} \hat{N}_{i,i} \pounds \$ \hat{e} \#\$ @ []^` \{ \} \sim 123 $$ $$ \text{esc} \in \text{SUSesc} \in \text{Sip_v0s0b4101T} $$$
1002	ROMAN-8	P	Scale	Upright	Bold	CG Times	Bd	Port	ABCDEFghij $\hat{A}\hat{A}^{\circ}\hat{C}\tilde{N}_{i;i}$ £\$ê#\$@[]^'{ }~12 <esc>(8U<esc>(s1p_v0s3b41011</esc></esc>
1003	ROMAN-8	P	Scale	Italic	Medium	CG Times	It	Port	$\label{eq:coeff} \begin{array}{l} \text{\tiny ABCDEfghij} \hat{A} \hat{A} {}^{\circ} \hat{C} \tilde{N}_{ic} \pounds \$ \hat{e} \#\$ @ []^{``} \{ \} \sim 123 \\ \text{\tiny (8U(s1p_v1s0b41011} \end{tabular}$
1004	ROMAN-8	P	Scale	Italic	Bold	CG Times	Bd1t		ABCDEfghij $\hat{A}\hat{A}^{\circ}C\tilde{N}_{i\dot{c}}$ £\\$\hat{e}#\\$@\[\]^\\{\} \sim 12\\ <\text{ <esc>\(8U\cept{<esc}\(stp_{v}\text{1}\text{3}\text{b}\text{4}\text{10}\text{11}}\)< td=""></esc}\(stp_{v}\text{1}\text{3}\text{b}\text{4}\text{10}\text{11}}\)<></esc>
1005	ROMAN-8	Р	Scale	Upright	Medium	CG Omega		Part	
1006	ROMAN-8	P	Scale	Upright	Bold	CG Omega	Bd	Port	ABCDEfghijÀ°ÇÑ;¿£\$ê#\$@[]^'{ } ~ 12 <esc>(8U<esc>(s1p_v0s3b4113T</esc></esc>
1007	ROMAN-8	P	Scale	Italic	Medium	CG Omega	It		ABCDL/ghijÀ°ÇÑ¡¿£§ê#\$@[]^'{ }~123 <esc>(8U<esc>(s1p_v1s0b4113T</esc></esc>
1008	ROMAN-8	P	Scale	Italic	Bold	CG Omega	BdIt		ABCDEIghij $\hat{A}\hat{A}^{\circ}$ $\hat{C}\tilde{N}_{i\hat{z}}$ £\$ê#\$@[]^'{ }~12 <esc>(8U<esc>(s1p_v1s3b41131</esc></esc>
1009	ROMAN-8	Р	Scale	Italic	Medium	Coronet			мЭС("kij À °СЙ); £56°56 ^ { } }~ 123 <esc>(8U<esc>(s1p_v1s0b4116T</esc></esc>
1010	ROMAN-8	Р	Scale	Cond	Bold	Clarendon	CdBd	Port	ав свЕfghij °ÇÑ¡¿\$\$ê#\$@[]^'{ }~123 <esc>(8U<esc>(s1p_v4s3b4140T</esc></esc>
1011	ROMAN-8	P	Scale	Upright	Medium	Univers	Md		AECDEfghij $\hat{A}\hat{A}^{\circ}\hat{C}\hat{N}_{i,j}$ £§ê#\$@[]^'{ }~1 <=sc>(8U <esc>(s1p_v0s0b4148)</esc>
1012	ROMAN-8	P	Scale	Upright	Bold	Univers	Bd	Port	ABCDEfghij $\hat{A}\hat{A}^{\circ}\hat{C}\tilde{N}_{i,t}f\hat{\theta}\#\$@[]^{'}\{ \}\sim (80\%)(810\%)(810\%)$
1013	ROMAN-8	P	Scale	Italic	Medium	Univers	MdIt	Port	ADCDETGHIJÀ°ÇÑj¿£§ê#\$@[]^'{ $ $ } ~ 1 <esc>(8U<esc>(s1p_v1s0b41481</esc></esc>
1014	ROMAN-8	P	Scale	Italic	Bold	Univers	Bdlt		ABCDEfghij $\hat{A}\hat{A}^{\circ}\hat{C}\tilde{N}_{i\hat{c}}f$ § $\hat{e}\#$ \$@[]^'{ }~ <esc>&lesc></esc>
1015	ROMAN-8	Р	Scale	Cond	Medium	Univers	CdMd	Port	, MCDEFghij $\dot{A}\dot{A}^{\circ}$ $\ddot{C}\tilde{N}_{\dot{L}\dot{L}}$ \dot{E} \dot{S} \dot{E} \dot
1016	ROMAN-8	P	Scale	Cond	Bold	Univers	CdBd		acoEfghijÀ°ÇÑ¡¿£\$ê#\$@ ^'{ }~123 <esc>(8u<esc>(s1p_v4s3b4148t</esc></esc>
1017	ROMAN-8	P	Scale	Cond It	Medium	Univers	CdMdIt	Port	»coEtghijŰÇÑj¿f§ê#\$@[]^'{ }~123 <esc>(8U<esc>(s1p_v5s0b4148τ</esc></esc>
1018	ROMAN-8	Р	Scale	Cond It	Bold	Univers	CdBd I t	Port	мсоЕfghijÀ°ÇÑj¿£\$ê#\$@[]^'{ } ~ 123 <esc>(8U<esc>(s1p_v5s3b4148T</esc></esc>

The Font List includes the following information.

① Font

This represents the font number used to select the font in the FONTNUM setting from the control panel. (See p. 3-13)

② Font ID

The number allocated to the soft font. (Not applicable to imageCLASS 2300)

③ Symbol Set

The name of the symbol set used by the font. "Symbol Sets Supported" (See p. 5-13)

(4) Fix/PS

Indicates whether the font is a fixed, non-proportional font (F) or a proportional font (P).

(5) Pitch (cpi)

The pitch and point size of the font. "Scale" is used to indicate a scalable font.

6 Point Size

The measured vertical distance in points (72 points=1 inch) from the top of the capital letter to the tail of the letter "y."

(7) Style

Upright (straight), italic (slanted), condensed (compressed), or expanded (loose) characters.

8 Stroke Weight

The stroke weight (thickness) of the characters in the font.

(9) Name or Typeface

The name of the typeface.

10 Default Orient

The orientation of the print. The default orientation for all fonts is portrait.

(ii) Print Sample & Escape Sequence

A print sample of the font and the PCL commands used to select the font.

Typeface Samples

The font lists printed from the TEST MENU are a comprehensive listing of all fonts currently available. The listing contains the names and print samples of the fonts stored on the printer.

Scalable Fonts (PCL)

Courier	AMCDEFGhijðÇÑ;¿£§ê#\$@[]^`{ }~123 <esc>(8U<esc>(sOp_hOsOb4099T</esc></esc>
CG Times	$\label{eq:condition} $$ \underset{\text{esc>(8U(s1p_v0s0b4101T)}}{\text{ABCDEfghij}} \hat{A}^\circ \hat{C}\tilde{N}_{i\dot{c}} \\ \\ \text{$$^{\text{CN}}$} \\ \text{$^{\text{CN}}$} \\ \text{$$^{\text{CN}}$} \\ $$^$
CG Times Bold	ABCDEfghij $\hat{A}\hat{A}^{\circ}\hat{C}\tilde{N}_{i,i}$ £\$ê#\$@ Π° { }~123 <=sc>(8U <esc>(s1p_v0s3b4101T</esc>
CG Times Italic	ancDEfghij $\hat{A}\hat{A}^{\circ}\hat{C}\tilde{N}_{i,i}\pounds\$\hat{e}\#\$@[]^{`}\{ \}\sim123$ <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
CG Times Bold Italic	$\label{eq:constraint} $$ \underset{\text{esc>}(8U\leq esc>(s1p_v1s3b4101T)}{\text{ABCDEfghij$$\hat{A}$}} \hat{C}\tilde{N}_{i;i}\pounds\$\hat{e}\#\$@{\text{II}^{*}}\{\big \} \sim 123$
CG Omega	мсDEfghijÀ°ÇÑ¡¿£\$ê#\$@[]^'{ }~123 <esc>(8U<esc>(s1p_v0s0b4113T</esc></esc>
CG Omega Bold	$\label{eq:coeff} $$ \underset{\text{esc>(8U(s1p_v0s3b4113T)}}{\text{ABCDEfghij}} \hat{A}^\circ \hat{C} \hat{N}_{i\dot{c}} £ \$ \hat{e} \# \$ @ []^{'} \{ \} \sim 123$
CG Omega Italic	ACCDEIghijÀ°ÇÑį¿£§ê#\$@[]^'{ }~123 <esc>(8U<esc>(s1p_v1s0b4113T</esc></esc>
CG Omega Bold Italic	ABCDEIghij $\lambda \hat{A} \circ \hat{V}_{i;\xi} $ \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Coronet	мсДСfghij, À.A°СЙj;£\$&\$\$@[[^{{}}] ~ 123 <esc>(8U<esc>(s1p_v1s0b4116T</esc></esc>
Clarendon	addefghij $\hat{A}\hat{A}^{\circ}\hat{C}\tilde{N}_{i,\xi}\hat{S}\hat{e}\#\$@[]^{\circ}\{ \}\sim 123$ <pre><sc>(8U<esc>(\$1p_v4\$3b4140T</esc></sc></pre>
Univers	$\label{eq:coeff} $$ \sup_{ABCDEfghij \ensuremath{\hat{A}} \ensuremath{\hat{A}} \circ \ensuremath{\hat{C}} \ensuremath{\tilde{N}}_{i \ensuremath{\hat{C}} \ensuremath{\hat{S}} \ensuremath{\hat{C}} \ensuremath{\hat{C}} \ensuremath{\hat{S}} \ensuremath{\hat{C}} \ensuremath{\hat{S}} \ensuremath{\hat{C}} \ensure$
Univers Bold	мсDEfghijÀ°ÇÑ¡¿£§ê#\$@[]^'{ }~12 <esc>(8U<esc>(s1p_v0s3b4148T</esc></esc>
Univers Italic	MCDEfghij $\lambda \hat{A} \circ \hat{C} \tilde{N}_{i\dot{c}} f \hat{S} \hat{e} # \hat{O} []^{'}\{ \} \sim 12$ <pre><sc>(8U<esc>(\$1p_v1\$0b4148T</esc></sc></pre>
Univers Bold Italic	MCDEfghij $\hat{A}\hat{A}^{\circ}\hat{C}\hat{N}_{i\dot{c}}f\hat{s}\hat{e}\#\hat{s}_{i}]^{\prime}\{ \}\sim 12$ <pre><sc>(8U<esc>(\$1p_v1s3b4148T</esc></sc></pre>
Univers Condensed	$ \begin{tabular}{ll} $$_{asc0Efghij} \hat{A}^\circ \hat{C}\tilde{N}_{i,c} f \$ \hat{e} \# \$ @[]^\circ \{ \} \sim 123 \\ $$_{esc>(8U($1p_v4$0b4148T}) \end{tabular} $

Univers Bold Condensed ABCDEfghijˡÇÑ¡¿£§ê#\$@[]^' $\{|\} \sim 123$ <esc>(8U<esc>(s1p v4s3b41481 Univers Condensed Italic ADCDEfghij $\dot{A}\dot{A}$ ° $\dot{C}\ddot{N}_{i\dot{c}}f$ § $\hat{e}\#$ \$@[] $^{\prime}\{|\}\sim123$ <esc>(8U<esc>(s1p v5s0b4148) Univers Bold Condensed Italic ACDEfghij $\hat{A}\hat{A}^{\circ}\hat{C}\hat{N}_{i,i}$ £ $\hat{S}\hat{e}\#$ \$@[] $\hat{C}^{\prime}\{|\}\sim 123$ <esc>(8U<esc>(s1p v5s3b4148T **AntigOlive** ABCDEfghijˡÇÑ¡¿£§ê#\$@[]^' $\{|\}\sim123$ <esc>(8U<esc>(\$1p_v0s0b4168T AntigOlive Bold ABCDEFghijˡÇÑ¡¿£§ê#\$@[]^' $\{|\}\sim 1$ <esc>(8U<esc>(s1p_v0s3b4168T AntiqOlive Italic ABCDEFghijˡÇÑ¡¿£\$ê#\$@[]^'{|}~123 <esc>(8U<esc>(s1p_v1s0b4168T Garamond Antique Garamond Bold $\label{eq:local_local_local_local} $$ $$ ABCDEfghij AA^CN_i LS_6#$@[]^{(|} \sim 123 $$ <esc>(8U<esc>(s1p_v0s3b4197T) $$$ Garamond Italic ABCDEfghij $\hat{A}\hat{A}$ °C $\hat{N}_{i;\sharp}$ £§ê#\$@[]^`{|} ~ 123 <esc>(8U<esc>(s1p_v1s0b4197T Garamond Bold Italic ABCDEfghij $\hat{A}\hat{A}^{\circ}$ Ç \hat{N}_{i} £\$\$ \hat{e} #\$@[]^`{|}~123 <esc>(8U<esc>(s1p_v1s3b4197t Marigold .scoeightj λ $\hat{\Lambda}^{\circ}$ $\hat{\zeta}$ $\tilde{N}_{i,2}$ £ $\hat{\xi}$ $\hat{\xi}$ #\$@[| $^{\bullet}$,{|} \sim 123 <esc>(8U<esc>(s1p_v0s0b4297T Albertus Semi-Bold ABCDEfghijˡÇÑ¡¿£§ê#\$@[]^ ${'}$ {|} ~ 123
<esc>(8U<esc>(s1p_ ${'}$ 0s1b4362T Albertus Extra Bold ABCDEfghij $\hat{A}\hat{A}^\circ$ $\hat{C}\tilde{N}_i$ £§ê#\$@[]^'{|}~1 <esc>(8U<esc>(s1p_v0s4b4362T Arial $\label{eq:local_local_local_local} $$ $$ \frac{\hat{A}^\circ \hat{C}\tilde{N}_i £ \hat{S}e^{\#$@[]^{'}\{|\}^{-123}} \\ $$ $$ (8U < esc) (s1p_v0s0b16602T) $$$ Arial Bold ABCDEfghijˡÇÑ¡¿£§ê#\$@[]^'{|}~123 <esc>(8U<esc>(s1p_v0s3b16602T

Arial Italic

Arial Bold Italic

Times New Roman

Times New Roman Bold

Times New Roman Italic

Times New Roman Bold Italic

Symbol

 $\label{eq:abcdefghij} $$ \hat{A}^\circ C\tilde{N}_{i,c} $$ e\#$@[]^{\ }_{123} $$ (8U<esc>(s1p_v0s0b16901T) $$$ $\label{eq:local_local_local_local_local} $$ $$ \frac{\hat{A}^{\circ}C\tilde{N}_{i,c} £ \hat{e} $= 0,13$}{\text{esc}(80 < esc)(s1p_v0s3b16901T}$$$

ABCDEfghijˡÇÑj¿£§ê#\$@[]^'{{}}~123 <esc>(8U<esc>(s1p_v1s0b16602T

ABCD**EfghijˡÇÑj¿£§ê#\$@[]^'{[}~123** <esc>(8U<esc>(s1p_v1s3b16602T

abcDEfghij $\hat{A}\hat{A}^{\circ}\hat{C}\tilde{N}_{i;i}f\hat{e}\#\$@[]^{'}\{|\}\sim123$ <esc>(8U<esc>(s1p_v1s0b16901T

лвсDEfghijÀ°ÇÑ¡¿£Şê#\$@ʃ]^'{|}~123 <esc>(8U<esc>(s1p_v1s3b16901T

авх∆ЕфуηιφΥ'≥×∂÷≠≈ | ℑ#∃≅[]⊥ {|}~123 <esc>(19M<esc>(s1p_v0s0b16686T

Wingdings

Courier Bold

Courier Italic

Courier Bold Italic

Letter Gothic

Letter Gothic Bold

Letter Gothic Italic

/************************************
ascomefghijðÇÑ;¿£\$ê#\$@[]^`{ }~123 <esc>(8U<esc>(sOp_h0s3b4099T</esc></esc>
ABCODE I GHI JÃÂ $^{\circ}$ ÇÑ; $^{\circ}$ £\$ê#\$@[]^\{ }~123 <esc>(8U<esc>(\$0p_h1\$0b4099T</esc></esc>
мсовfghijðÇÑ¡¿£\$ê#\$@[]^`{ }~123 <esc>(8U<esc>(sOp_h1s3b4099T</esc></esc>
$\begin{array}{l} \text{\tiny ASCDEfghij} \hat{A}\hat{A}^{\circ} \hat{C} \hat{N}_{i} \text{; \pm} \hat{e} \#\$@[]^{\circ} \{ \} \sim 123 \\ \text{\tiny (8U($0p_h0s0b4102T)} \end{array}$
ABCDEfghijÀ°ÇÑ¡¿£\$ê#\$@[]^'{ }~123 <esc>(8U<esc>(\$0p_h0s3b4102T</esc></esc>
ABCOEFGHIJÀ°ÇÑ;¿£\$ê $\#$ \$0[]^'{ }~123

<esc>(8U<esc>(s0p_h1s0b4102T

Bar Code Scalable Fonts (PCL)

Codabar

Codabar Condensed

Codabar Expanded

Barcode 3 of 9 Thin

Barcode 3 of 9 Light

Barcode 3 of 9

Barcode 3 of 9 Semi-Bold

Barcode 3 of 9 Black

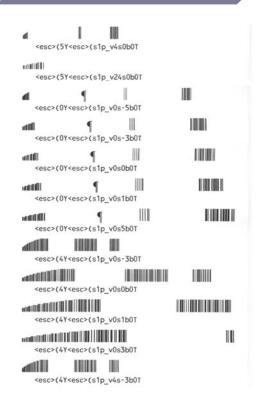
Interleaved 2 of 5 Light

Interleaved 2 of 5

Interleaved 2 of 5 Semi-Bold

Interleaved 2 of 5 Bold

Interleaved 2 of 5 Light Condensed



Interleaved 2 of 5 Condensed

Interleaved 2 of 5 Semi-Bold Condensed

Interleaved 2 of 5 Condensed Bold

MSI Plessey

UPC/EAN

UPC/EAN Bold

UPC/EAN Condensed

UPC/EAN Condensed Bold

UPC/EAN Expanded

UPC/EAN Expanded Bold

PostNet

Code 128

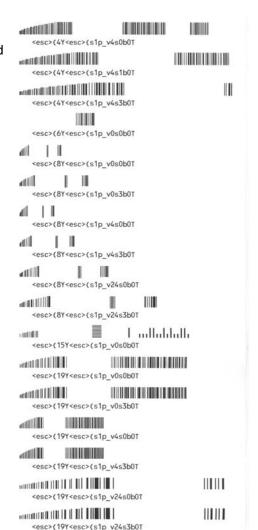
Code 128 Bold

Code 128 Condensed

Code 128 Condensed Bold

Code 128 Expanded

Code 128 Expanded Bold



OCR Scalable Fonts (PCL)

OCR-B

OCR-A

#\$@[]^'{|}~123 ABCDEfghij <esc>(10<esc>(s0p h0s0b110T ABCDEfghij #\$9[]v4{|}1]23 <esc>(00<esc>(s0p_h0s0b104T

Bitmapped Fonts (PCL)

Line Printer

Line Printer ABCDEfghij#\$@[]@°§¶†1123 <esc>(1U<esc>(s0p16.67h8.5v0s0b0T Line Printer ABCDEfghijĄ~ł′ś.šť″Á#\$@[]^^(|)~123ĹČĖÍĪĐŇÔ×ŘŰŢŕāč <esc>(2N<esc>(s0p16.67h8.5v0s0b0T Line Printer $ABCDEfghijie^3 `\P.' \text{ $\%$A\#$a[] $^{\circ}$ ($] $^{-123$$EÉIIĞÒÔ$$ ØÛŞāāe}$ <esc>(5N<esc>(s0p16.67h8.5v0s0b0T Line Printer ABCDEfghíjí e^3 '¶ $_1$ ' »½Á#\$a[] ^ (|) ~123ÅÈÉÍÍÐÒÓרÛÞàãè <esc>(0N<esc>(s0p16.67h8.5v0s0b0T Line Printer Line Printer <esc>(10U<esc>(s0p16.67h8.5v0s0b0T Line Printer <esc>(11U<esc>(s0p16.67h8.5v0s0b0T

ABCDEfghijíó|-Â0-1-¢-#\$@[]~(|)~123+1-60ÊÊÎÏ∎ÌÓÒÞ

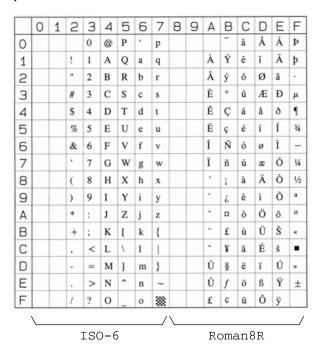
<esc>(12U<esc>(s0p16.67h8.5v0s0b0T

Symbol Sets Supported

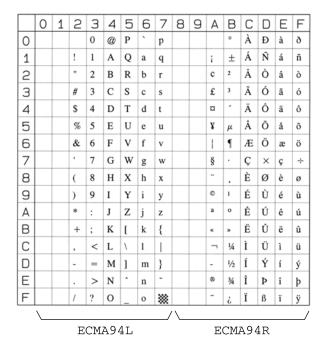
This section provides a list of the character code tables for the characters in each symbol set.

Character Code Tables

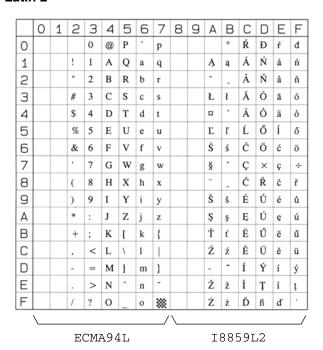
■ Roman-8 (R8)



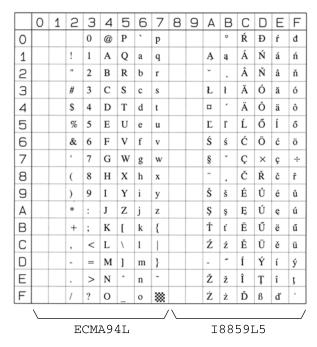
■ ISO 8859/1 Latin 1



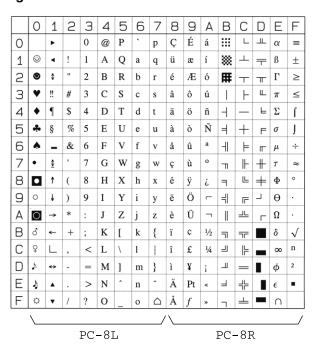
■ ISO 8859/2 Latin 2



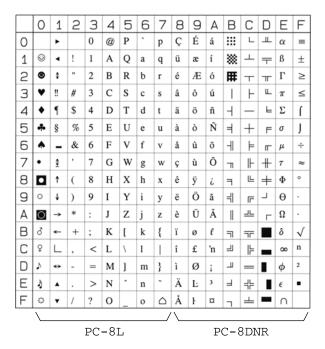
■ ISO 8859/9 Latin 5



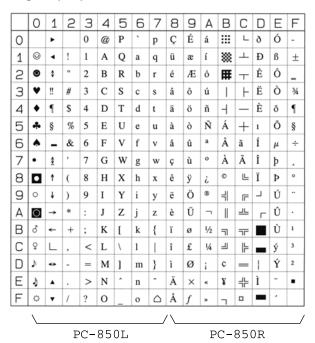
■ PC-8 Code Page 437



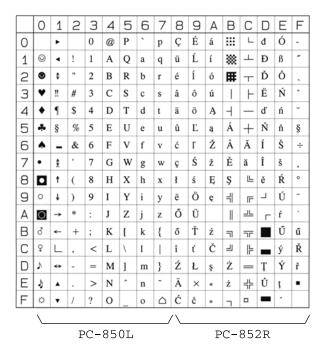
■ PC-8 Danish/Norwegian



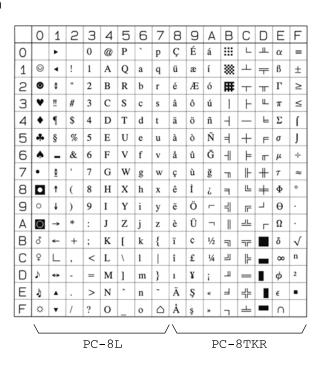
■ PC-850 Multilingual (PM)



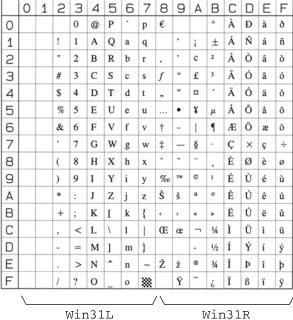
■ PC-852 Latin 2



■ PC-Turkish



■ Windows Latin 1



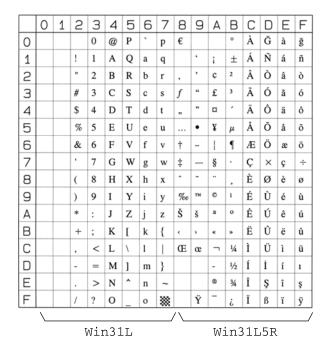
■ Windows Latin 2



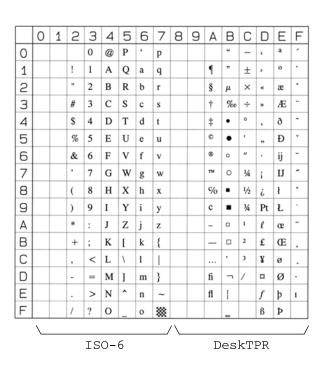
Win31L

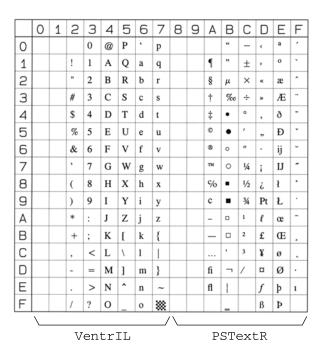
Win31L2R

■ Windows Latin 5

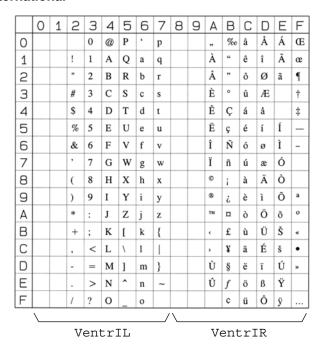


■ DeskTop

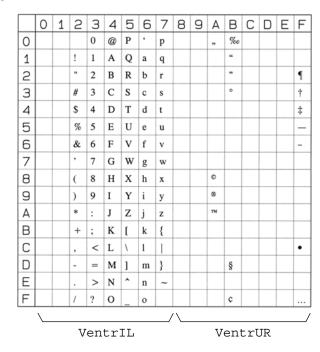




■ Ventura International

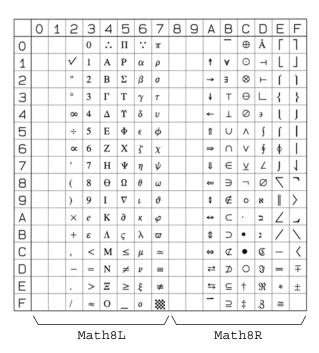


■ Ventura US

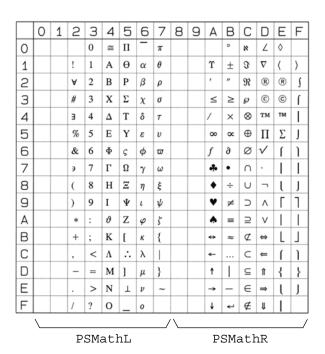


■ Microsoft Publishing

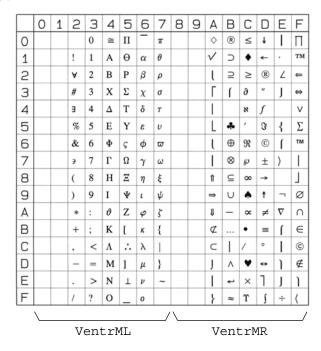




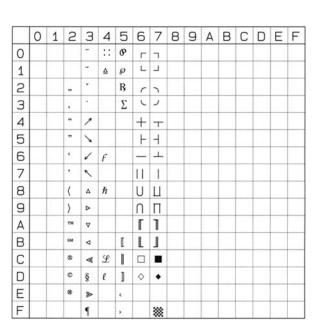
■ PS Math

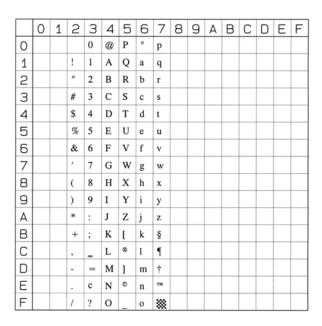


■ Ventura Math



■ Pi Font



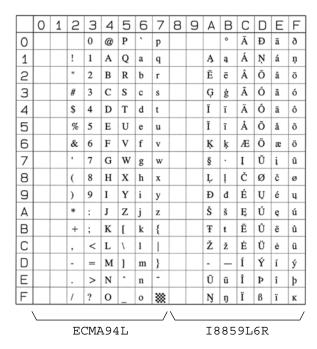


■ Windows 3.0 Latin 1

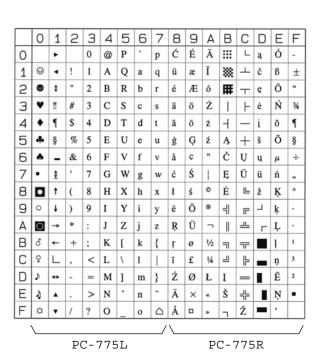


ECMA94L

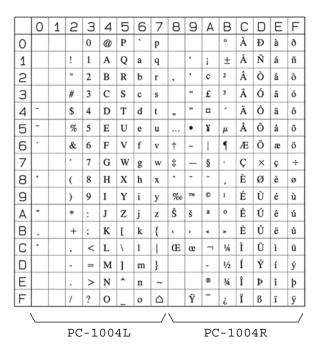
■ ISO 8859/10 Latin 6



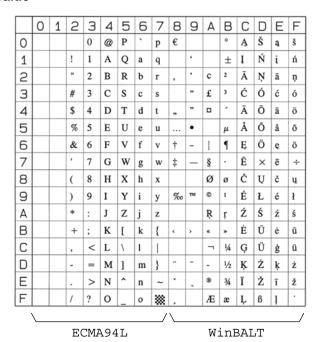
■ PC-775



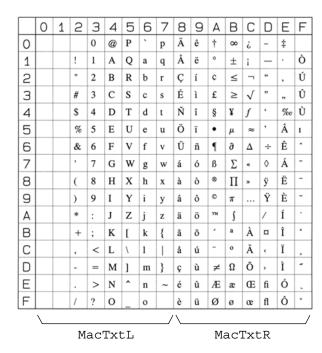
Symbol Sets Supported



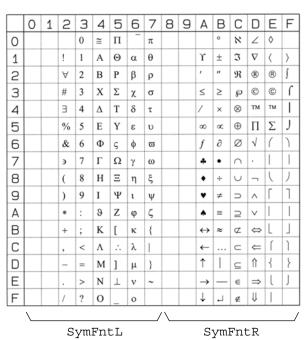
■ Windows Baltic



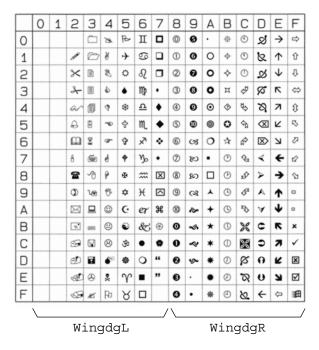
■ MC Text



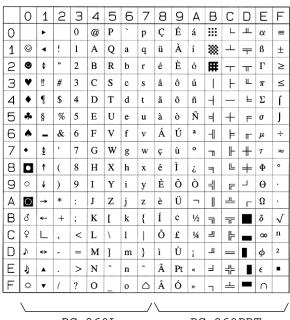
■ Symbol Font



■ Wingdings Font



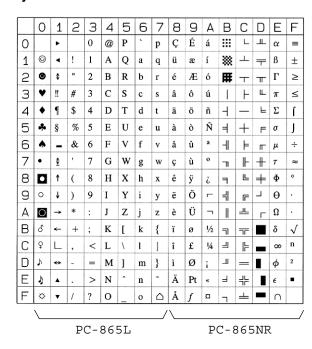
■ PC-860 Portugal



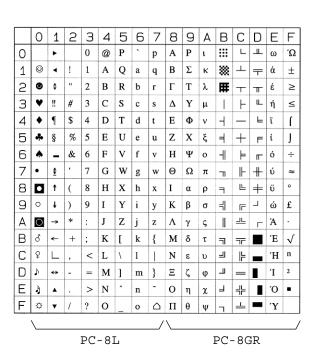
PC-860L

PC-860PRT

■ PC-865 Norway

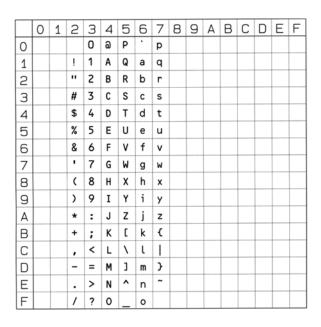


■ PC-8 Greek

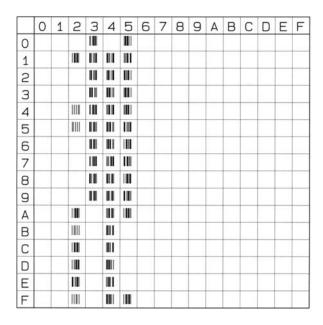


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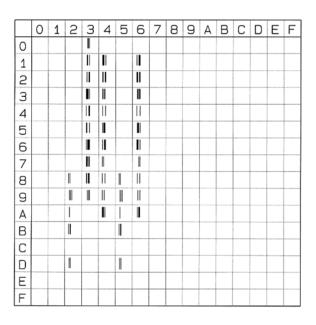
■ OCR-B



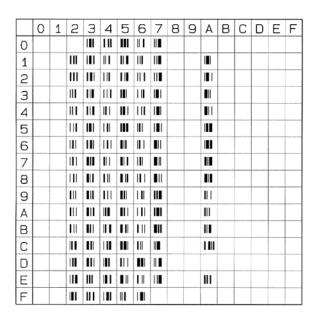
■ 3 of 9 Barcode



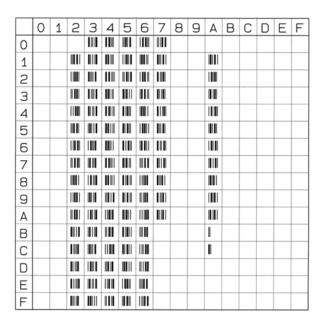
■ UPC/EAN Barcode



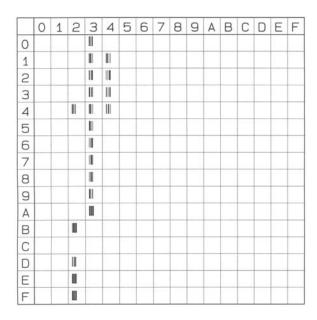
■ Code 128 Barcode



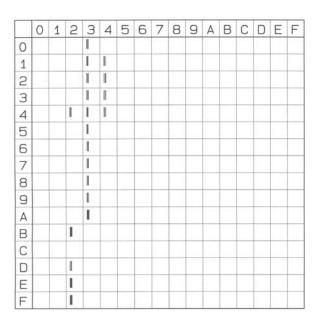
■ Interleaved 2 of 5 Barcode



■ Codabar (Upright)



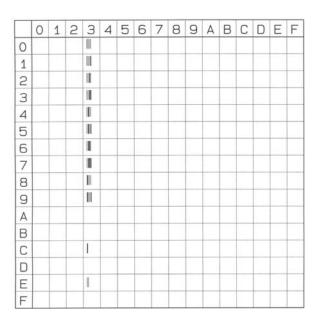
■ Codabar (Condensed)



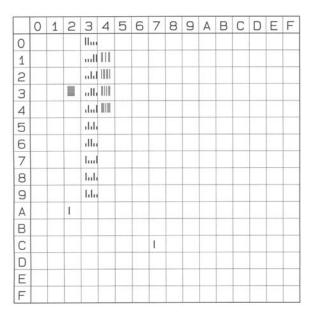
■ Codabar (Expanded)

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С																
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■ MSI Plessey



■ PostNet



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D			-	=	М]	m	}
E				>	N	٨	n	~
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The shaded characters in the table are replaced with the corresponding ones in the following table according to the graphic set used.

GRAPHIC	CHARACTER CODE										
SET NAME	23	40	5B	5C	5D	5E	60	7B	7C	7D	7E
ISO_USA	#	@	[\]	۸	6	{		}	~
ISO_UK	£	@	[\]	^	`	{		}	_
ISO_S/F	#	É	Ä	Ö	Å	Ü	é	ä	ö	å	ü
ISO_N/D	#	@	Æ	Ø	Å	^	`	æ	ø	å	_
ISO_JPN	#	@	[¥]	^	`	{	-	}	_
ISO_GER	#	§	Ä	Ö	Ü	^	`	ä	ö	ü	ß
ISO_FRC	£	à	0	ç	§	^	μ	é	ù	è	
ISO_ITY	£	§	0	ç	é	^	ù	à	ò	è	ì
ISO_SPN	£	§	i	Ñ	خ	^	`	0	ñ	ç	~

Specifications

This section lists the specifications for the printer.

Controller Specifications

CPU Power PC405 (200 MHz)

Memory (RAM) 8MB

Host interface One parallel connector (Centronics compliant/ bidirectional)

One USB connector (V 1.1)

Two expansion board slots

RAM socket 1 ROM socket 2

Software Specifications

Area

Printer Languages PCL® 5e, 6 emulation

Resident Fonts 45 scalable fonts and 8 bitmap fonts

Effective Printable Reduced to 1/5" (5 mm) (3/8" (10 mm) for envelopes) each from top,

bottom, right and left edges.

Interface Specifications

This section lists the specifications for the parallel interface and printer cable that should be used with the printer.

Parallel Interface (Centronics Compliant)

Location of signal lines and pins

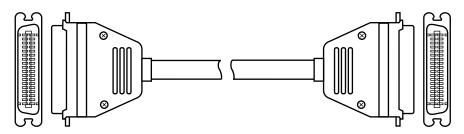
Pin number	Signal	Pin number	Signal
1	STROBE	19	GND (STROBE)
2	DATA0	20	GND (DATA0)
3	DATA1	21	GND (DATA1)
4	DATA2	22	GND (DATA2)
5	DATA3	23	GND (DATA3)
6	DATA4	24	GND (DATA4)
7	DATA5	25	GND (DATA5)
8	DATA6	26	GND (DATA6)
9	DATA7	27	GND (DATA7)
10	ACK	28	GND (PERROR, SELECT, ACK)
11	BUSY	29	GND (BUSY, FAULT)
12	PERROR	30	GND (AUTOFD, SELECT IN, INIT)
13	SELECT	31	INIT
14	AUTOFD	32	FAULT
15	AUXOUT1	33	AUXOUT2
16	Logic GND	34	AUXOUT3
17	Chassis GND	35	AUXOUT4
18	Peripheral Logic High	36	SELECT IN



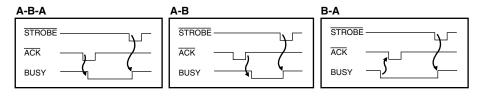


<AUXOUT> is a signal output for extension, not used at present.

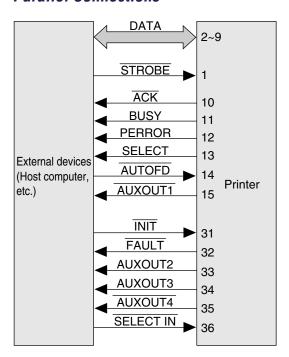
Connector and cable



Timing chart



Parallel Connections



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