DocuPrint C3055/C3055 DX

ESC/P Emulation Setting Guide

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Preface

Thank you for purchasing the DocuPrint C3055/C3055 DX.

This guide provides information about the ESC/P emulation of the printer.

To get the most out of this printer and to use it effectively, please read this guide as necessary.

This guide assumes you are familiar with the basic operation of the printer and your operating environment.

Contents

Preface 3
Types of Manuals 5
Using This Guide 6

1 Using Emulation 7
1.1 About Emulation 7
Emulation Mode 7
Host Interfaces and Emulation 7
Switching Print Languages 8
Mode Menu Screen 8
1.2 About Fonts 9
Supported Fonts 9
User-Defined Characters (External Characters) 9
Font Cache 9
1.3 Paper Eject Function 10
Forcibly Ejecting the Remaining Data 10
1.4 Print Features in the ESC/P Mode 11
Multiple Up (ESC/P) 11
Form Overlay 11
Barcode (ESC/P) 11
About Forms 11

2 Setting the ESC/P Mode 12
2.1 Control Panel Menus 12
Common Menu Items for the ESC/P Mode 12
ESC/P Mode Menu 13
2.2 Setting the ESC/P Mode Menu 14
ESC/P Mode Menu Items 14
Settings the ESC/P Mode Menu 21
2.3 ESC/P Mode Reports/Lists 22
Printer Settings 22
Font List 22
User Defined List 22
ESC/P Logical Printers List 22

3 ESC/P Mode Reference Materials 23
3.1 Zoom Ratio Table 23
3.2 Output Size and Printing Columns/Rows 29

Index 31

Mode Menu (ESC/P)

Types of Manuals

Setup Guide	Provides step-by-step instructions on how to set up your printer.
Quick Reference Guide	Provides information such as how to get ready to print, basic operating instructions, and troubleshooting tips. Refer to the 'User Guide' for more details and information not covered in this guide.
User Guide (PDF)	Describes how to get ready to print and set various print features. It also covers the control panel menus, troubleshooting tips, and maintenance information. • This guide is on the CD-ROM of the Driver CD Kit under [Model-specific Manual (PDF Document)].
CD-ROM Documentation (HTML)	Describes how to set up the printer's operating environment and to install a print driver and various Fuji Xerox software. • This guide is on the CD-ROM of the Driver CD Kit.
Emulation Setting Guide (PDF) (this guide)	Contains information about the ESC/P and PCL emulation modes. • This guide is on the CD-ROM of the Driver CD Kit under [Model-specific Manual (PDF Document)].
PostScript User Guide	Describes how to set up your printer as a PostScript® printer and the features that can be configured on your print driver. • This guide is on the PostScript Driver Library CD-ROM.
Installation guides for the optional accessories	Most optional accessories (sold separately) come with installation guides.

Note

- To view PDF files, you must have Adobe® Acrobat® Reader® or Adobe® Reader® installed on your computer. If you do not have it installed, install it from the CD-ROM of the Driver CD Kit.

Using This Guide

Organization

This guide is organized into the following chapters. The summary of each chapter is as follows:

1. Using Emulation

Describes the fonts and interfaces supported and the printer emulated in the ESC/P emulation mode.

2. Setting the ESC/P Mode

Describes how to configure the ESC/P emulation mode.

3. ESC/P Mode Reference Materials

Describes the supported zoom ratios and the number of printing columns/rows in the ESC/P emulation mode.

Conventions

1. In this guide, personal computers and workstations are collectively called "computers".
2. The following terms are used throughout this guide:

   Important : Important information that must be read and followed.

   Note : Additional information that merits emphasis.

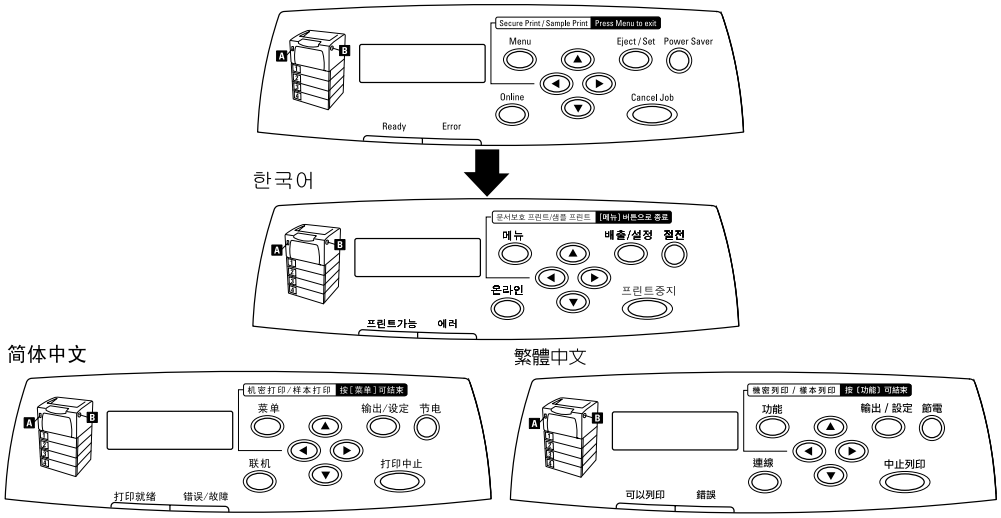
   Refer to " " : References within this guide.

   Refer to ‘ ‘ : References to other publications.
3. The following symbols are used throughout this guide:

   [ ] : The names of the menu items on your computer or the printer’s control panel display, or the names of the reports/lists that can be printed from the printer.

   < > : The names of the keys on your computer keyboard or the hardware buttons or lamps on the printer's control panel.

   > : The hierarchies of the menus on the control panel display, print driver, or CentreWare Internet Services.
4. In this guide, the control panel buttons/lamps are presented in English. If you placed the control panel labels (included with the printer) on your control panel, use the following figure to identify the names of the buttons/lamps in your language.



1 Using Emulation

1.1 About Emulation

This chapter explains the ESC/P emulation of the printer.

Print data is data written based on certain rules (grammars). These rules (grammars) are called "print languages".

The printer supports two types of print languages: page description language and emulation. Page description language is a language that describes images on a page basis. Emulation is the ability of this printer to imitate print results of other printers.

Emulation Mode

To print data written in a language other than the page description languages supported by the printer, switch the printer to an emulation mode. The printer has multiple emulation modes and ESC/P is one of them. In the ESC/P emulation mode, the printer emulates the following printer.

Emulation Mode	Emulated Printer
ESC/P emulation mode (ESC/P mode)	VP-1000

Host Interfaces and Emulation

Each host interface supports different print languages. The following host interfaces support ESC/P emulation:

- Parallel port
- LPD port
- NetWare port
- SMB port
- IPP port
- USB port
- Port9100 port

Note

- To use NetWare, SMB, or IPP port, the network expansion card (optional) must be installed.

Switching Print Languages

The printer supports multiple emulation modes and can switch between multiple print languages.

There are three methods of switching print languages.

Switching Languages by Commands

If the printer receives a command that explicitly tells which language to use, the printer switches to that language.

Switching Languages Automatically

The printer examines data received by its host interface and automatically determines and switches to the appropriate language.

Switching Languages by Interface

The printer can be programmed to switch to a particular language for a particular host interface. This can be done by setting a language for each interface on the control panel.

Mode Menu Screen

The menu items for the emulation modes can be accessed from the mode menus. To access the mode menu for the ESC/P emulation mode, press the <Menu> button and select [Print Language] > [ESC/P]. The following is the first screen of the ESC/P mode menu.

Refer to

- For information about the items under the ESC/P mode menu, refer to “2 Setting the ESC/P Mode” (P. 12).

1.2 About Fonts

This section explains the fonts that can be used in the ESC/P emulation mode.

Supported Fonts

The following outline fonts can be used in the ESC/P emulation mode.

Note
- The supported fonts and their print samples can be viewed on the [Font List]. For information about the [Font List], refer to “2.3 ESC/P Mode Reports/Lists” (P. 22).

Western Fonts

- Roman
- Sans Serif
- OCR-B

Chinese Fonts

Installing the Chinese font kit to the printer allows you to use the following fonts:

- Shu Song
- Hei Ti
- Fang Song
- Kai Ti

User-Defined Characters (External Characters)

The ESC/P emulation mode allows you to use user-defined characters (external characters).

User-defined characters are stored in the memory (if the optional hard disk is not installed) and are erased when the printer is switched off.

If the hard disk is installed, user-defined characters are stored in the hard disk and are retained even when the printer is switched off.

User-defined characters are stored as bitmap fonts and cannot be shared among different print languages.

Font Cache

Outline fonts of up to a certain size can be cached to improve print speed. When printing outline fonts, the printer converts them into bitmap fonts. This process can be eliminated by storing converted bitmap fonts into the memory. This is called “font caching”.

The stored bitmap fonts are erased if you switch the printer off or initialize the system.

1.3 Paper Eject Function

This section explains the paper eject function of the printer.

Forcibly Ejecting the Remaining Data

In the ESC/P emulation mode, the printer does not eject a job unless it receives a full page worth of data. When the host interface is Parallel or USB, and if only a portion of a page is received, the printer does not eject the page. The printer waits for the data and shows [Data Wait] on the display until the time set under [Time-out] elapses.

In such situation, you can forcibly print the page without waiting for the time-out period to elapse.

Use the following steps when forcibly ejecting the data remained in the printer.

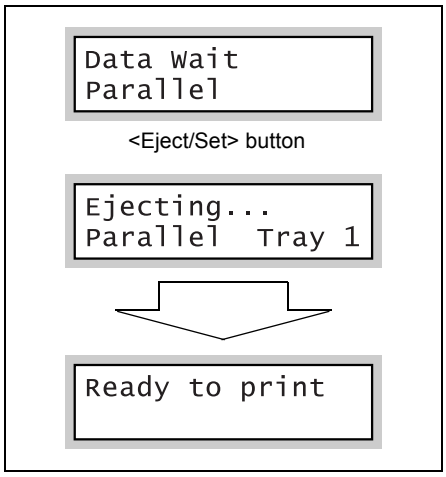
Note
- If you send a job to the printer while the display says [Data Wait], the job may not be printed successfully. Send a job to the printer after forcibly ejecting the current job or after the time-out period has elapsed.

Refer to
- For information about the [Time-out] feature, refer to the ‘User Guide’.

1. Press the <Eject/Set> button when the display is in the state shown on the right.

   The printing starts.

   When the printing is finished, the display reads [Ready to print].



Important
- When [Print Mode] (common menu) is set to [Auto], you cannot force-eject a job since the display does not show [Data Wait].

1.4 Print Features in the ESC/P Mode

The following print features can be used in the ESC/P emulation mode.

Multiple Up (ESC/P)

Multiple Up is a feature that prints multiple pages onto one sheet of paper.
In the ESC/P emulation mode, you can perform 2-up printing.

Form Overlay

Form Overlay is a feature that allows you to store forms in the printer and merge them with print data when printing. When using this feature, select a form you want to use on the control panel.

Barcode (ESC/P)

The ESC/P emulation mode allows you to use barcodes. The following barcode standards are supported:

- JAN code
- CODE39
- NW7 (CODABAR)
- Industrial 2 of 5
- ITF (Interleaved 2 of 5)
- CODE128
- Customer barcode

About Forms

The following number of forms can be registered in the ESC/P emulation mode.

	ESC/P
Hard disk installed	64
Hard disk not installed	64

Note

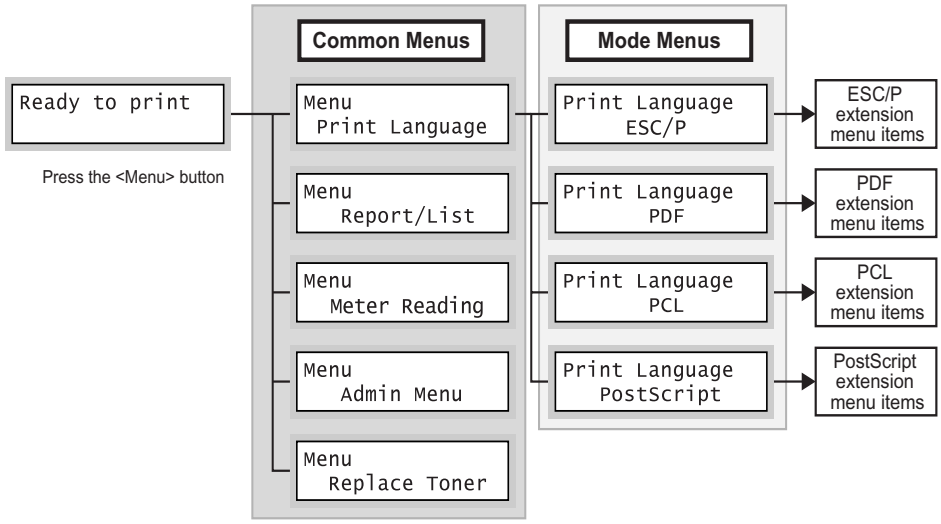
- If you attempt to register a form when the printer already has the maximum number of forms, or when the memory is not sufficient to store the form, the printer does not register the form without showing any error.
  Whether forms have been registered successfully can be checked by printing out the [User Defined List].
  For information about the [User Defined List], refer to “2.3 ESC/P Mode Reports/Lists” (P. 22).

2 Setting the ESC/P Mode

2.1 Control Panel Menus

There are two types of control panel menus: the mode menus and common menus. The mode menus are the menus that relate to the emulation modes. The common menus are the menus for all the other features of the printer.

Note
- On the DocuPrint C3055, [PostScript] (mode menu) is displayed only if the PostScript software kit (optional) is installed.



Common Menu Items for the ESC/P Mode

The common menu items that relate to the ESC/P emulation mode are as follows:

Refer to
- For more information about the common menu items, refer to the 'User Guide'.

■ Network / Port

To display this item, select [Admin Menu] > [Network / Port].
This item allows you to set the ports to be used in the ESC/P emulation mode.

- Port Status (Parallel/LPD/NetWare/SMB/IPP/USB/Port9100)
  Enables the ports to be used in the ESC/P emulation mode. By default, all ports are set to [Enable].
- Print Mode (Parallel/LPD/NetWare/SMB/IPP/USB/Port9100)
  Sets the print mode of each port to [ESC/P] or [HexDump]. By default, all ports are set to [Auto].

Note
- [Print Mode] allows you to set the method of processing data received from host interfaces. If you set this to [ESC/P], the printer will not auto-switch languages as described in “Switching Languages Automatically” (P. 8).

■ Delete Form

To display this item, select [Admin Menu] > [Init/Del Data] > [Delete Form].
This item allows you to delete ESC/P forms registered in the printer. If there is no form registered in the printer, [Not registered] appears instead of [Delete Form].

- Delete ESCP Form
  Deletes ESC/P forms registered in the printer.

ESC/P Mode Menu

The ESC/P mode menu allows you to configure the ESC/P emulation mode.

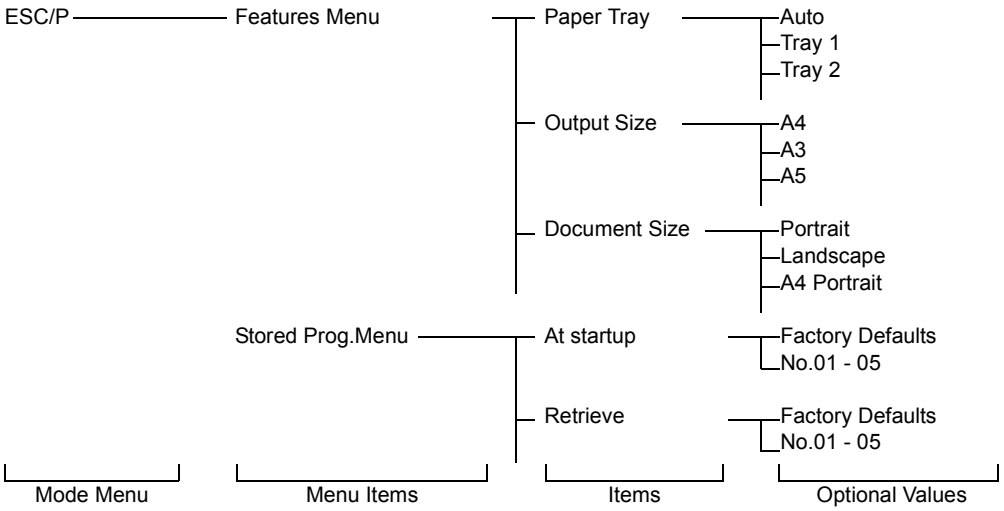
You can change the settings of the ESC/P mode menu even when the printer is printing. The changes, however, will be applied not to the job being printed, but from a job after it.

The mode menu is organized into the following structure.

- mode menu > menu items > items > optional values

Note

- Some "menu items" do not have items.
  Some "items" may be divided into item 1, item 2, item 3...
  (They will be simply referred to as "items" unless otherwise noted.)



The above is a portion of the hierarchical structure of the ESC/P mode menu.

Refer to

- For information about the items in the ESC/P mode menu, refer to "2.2 Setting the ESC/P Mode Menu" (P. 14).

2.2 Setting the ESC/P Mode Menu

This section explains the items in the ESC/P mode menu and how to configure them.

ESC/P Mode Menu Items

The items that can be set in the ESC/P mode menu are as follows:

Features Menu

Paper Tray

Sets the paper tray to be used when printing.

The following options are available:

[Tray 1] (default)

[Tray 2]

[Tray 3]

[Tray 4]

[Bypass Tray]

[Auto]

When [Auto] is selected, the printer searches for the paper tray that contains the paper that matches the [Output Size] setting and automatically feeds paper from that paper tray.

Note

- [Tray 1] - [Tray 4] display the size of the paper loaded in each tray next to the tray names.
- When [Auto] is selected, and if the paper of the same size is loaded in more than one paper tray, the printer selects a paper tray based on the tray priority setting of a common menu.
- [Tray 2] - [Tray 4] are displayed only if the 500 sheet feeders (optional) are installed.

Output Size

Sets the size of the paper to be used when printing. This can be set only when [Paper Tray] is set to [Auto] or [Bypass Tray]. Only the sizes for cut sheets can be selected.

The following options are available:

[A4] (default)

[A3]

[A5]

[B4]

[B5]

[11 x 17]

[8.5 x 13] (Available only when [Paper Tray] is set to [Bypass Tray])

[8.5 x 14]

[8.5 x 11]

[100 x 148mm] (Available only when [Paper Tray] is set to [Bypass Tray])

Note

- When [Zoom Mode] is set to [Fixed %] or [Whole Output Size], the printer automatically determines the zoom ratio based on the [Document Size] and [Output Size] settings.
  When [2 Pages Up] is enabled, the zoom ratio will be 1/2 of the zoom ratio determined from [Document Size] and [Output Size].
- [Output Size] cannot be set when [Paper Tray] is set to [Tray 1], [Tray 2], [Tray 3], or [Tray 4]. The size of the paper loaded in the paper tray will be displayed.

Document Size

Sets the size and orientation of the document to be printed.

The following options are available:

[Portrait] (default)

[Landscape]

[A4 Portrait], [A4 Landscape], [A3 Portrait], [A3 Landscape], [A5 Portrait], [A5 Landscape], [B4 Portrait]

[B4 Landscape], [B5 Portrait], [B5 Landscape], [100 x 148mm P], [100 x 148mm L]

[11x17 Portrait], [11x17 Landscape]

[8.5x14 Portrait], [8.5x14 Landscape]

[8.5x13 Portrait], [8.5x13 Landscape]

[8.5x11 Portrait], [8.5x11 Landscape]

[R15x12 Landscape] (continuous form paper: 15 x 12; 136 columns/72 rows)

[R15x11 Landscape] (continuous form paper: 15 x 11; 136 columns/66 rows)

[R10x12 Portrait] (continuous form paper: 10 x 12; 80 columns/72 rows)

[R10x11 Portrait] (continuous form paper: 10 x 11; 80 columns/66 rows)

Note

- When [Zoom Mode] is set to [Fixed %] or [Whole Output Size], the printer automatically determines the zoom ratio based on the [Document Size] and [Output Size] settings.
  When [2 Pages Up] is enabled, the zoom ratio will be 1/2 of the zoom ratio determined from [Document Size] and [Output Size].
- The paper orientation you select here is that of the document to be printed. The orientation will not affect the orientation of the paper in the selected paper tray.
- When [Portrait] or [Landscape] is selected, [Document Size] will be the size specified for [Output Size].

Output Color

Sets the output color to [Color] (default) or [Black].

Quantity

Sets the number of copies to be printed within the range of 1 (default) to 250.

Note

- If the printer receives a job from a client that specifies the print quantity, that quantity will be applied to the job. After the job is printed, the quantity set on the control panel also changes to the quantity specified by the client. However, if the job is requested through a NetWare or LPD port, the quantity on the control panel does not change to the quantity specified by the client.
- Holding down the <▼> or <▲> button scrolls through the options in a circular fashion. Simultaneously pressing the <▼> and <▲> buttons displays the default value.

Zoom Mode

■Fixed % (default)

Automatically reduces or enlarges the document based on [Document Size] and [Output Size] so that the printable area of [Document Size] fits into that of [Output Size]. If the sizes specified for [Document Size] and [Output Size] are the same, the document will be printed at 100% zoom ratio. When [2 Pages Up] is enabled, two pages will be printed onto the printable area of one page.

■Variable %

Allows you to set the desired zoom ratio. You can set different zoom ratios for X and Y directions within the range of 45 to 210% in increments of 1%. The default is [P 100% L 100%].

■Whole Output Size

Automatically calculates the zoom ratio based on [Document Size] and [Output Size] and prints the document so that the physical size of [Document Size] fits into the printable area of [Output Size].

Note

- When continuous-form paper is selected for [Document Size], [Fixed %] and [Whole Output Size] derive the same print result.
- Use the <▶> or <◀> button when entering the values for [Variable %].
  Holding down the <▼> or <▲> button scrolls through the options in a circular fashion. Simultaneously pressing the <▼> and <▲> buttons displays the default value.

2 Sided Print

Sets whether or not to print 2 sided.

The following options are available:

[1 Sided] (default)
Does not print 2-sided.

[Head to Head]
Prints the reverse side of a page so that the finished document opens like a book.

[Head to Toe]
Prints the reverse side of a page so that the finished document opens like a calendar.

Note

- On DocuPrint C3055, this item is displayed only if the duplex unit is installed (optional).

2 Pages Up

This feature prints two pages of data onto one page. Two pages can be printed side by side or one on top of the other.

The following options are available:

[1 Page Up] (default)
Does not perform 2 Pages Up.

[Left -> Right]
Performs 2 Pages Up. This prints the first page of the document on the left or top half of a page.

[Right -> Left]
Performs 2 Pages Up. This prints the first page of the document on the right or bottom half of a page.

Important

- When the orientation of [Document Size] is set to landscape, [Left -> Right] and [Right -> Left] derive the same print result.

Bypass-Wait User

This feature allows you to request bypass printing and manually start printing by pressing the <Eject/Set> button on the control panel. Set whether or not to enable this feature by selecting [On] or [Off] (default).

Font

■Kanji Font

Sets the font for double-byte characters (kanji) when the Chinese font kit is installed.

The following options are available:

[Shu Song]

[Hei Ti]

[Fang Song]

[Kai Ti]

■Alphanumeric

Sets the font for single-byte characters (ANK) to [Roman] (default) or [Sans Serif].

Note
- This setting is not affected by extension commands sent from users.

Refer to
- "1.2 About Fonts" (P. 9)

Page Position

Sets the paper position by enabling or disabling the cut sheet feeder setting.

The following options are available:

[CSF Off] (default)
Disables the cut sheet feeder setting.

[CSF On]
Enables the cut sheet feeder setting.

Adjust Position

This feature allows you to adjust the printable area in vertical or horizontal direction and move the margins.

■Up/Down Adj

Adjusts the position of the printable area in vertical direction. The position can be adjusted within the range of -250 to 250 mm in increments of 1 mm. The default is [0mm].

If entering the value in inches, enter it within -9.8 to 9.8" in increments of 0.1". The default is [0.0"].

■Left/Right Adj

Adjusts the position of the printable area in horizontal direction. The position can be adjusted within the range of -250 to 250 mm in increments of 1 mm. The default is [0mm].

If entering the value in inches, enter it within -9.8 to 9.8" in increments of 0.1". The default is [0.0"].

Note
- The part of data that falls outside the printable area will not be printed even if you adjust the position of the printable area. Also, the part of data that falls outside the printable area due to the adjustment of the printable area will not be printed.
- Holding down the <▼> or <▲> button scrolls through the options in a circular fashion. Simultaneously pressing the <▼> and <▲> buttons displays the default value.

Ruled Line

Sets the method for printing double-byte ruled lines.

The following options are available:

[Image] (default)
Prints double-byte ruled lines as images. This eliminates misalignment between ruled lines and images.

[Font]
Prints double-byte ruled lines in built-in fonts. This gives a uniform appearance to ruled lines and texts.

Print Control

■Skip Blank Pages

Sets whether or not to skip blank pages during printing.

The following options are available:

[On] (default)
Skips blank pages.

[Off]
Does not skip blank pages.

Note
- Pages that only contain white images or spaces entered with external characters will be printed as blank pages even when this is set to [On].
- When [On] is selected, and if [2 Sided Print] or [2 Pages Up] is enabled, blank pages will be skipped during printing.

■ Image Enhance

Image Enhance is a feature that artificially enhances resolution by smoothing out transitions between black and white and reducing jagged appearance. Set whether or not to enable Image Enhance by selecting [On] (default) or [Off].

■ Character Range

Sets whether or not to extend the position of the right margin.

The following options are available:

[Normal] (default)
Sets the right margin at column 136 at 10 cpi.

[Extended]
Depending on the zoom ratio setting, this extends the position of the right margin when there is enough space to the right of column 136 at 10 cpi and prints also in that extended area.

Note
- When [Character Range] is changed from [Extended] to [Normal], the left and right margins will be reset to the defaults.
- When the right margin is set by a command, the position specified by the command will be the right edge.

■ Character Mode

Character Mode is a feature that sends printer control commands in characters instead of in hexadecimal numbers. When sending printer control commands from an IBM host computer through a computer that supports Character Mode, set the start character string to "&$%$" or "$?!#".

The following options are available:

[Off] (default)
Disables Character Mode.

["&$%$" Entry]
Uses "&$%$" as the start character string.

["$?!#" Entry]
Uses “$?!#" as the start character string.

ESC/P Switch

Note
- The values for [Text], [Minimum Text], [Char. Code Table], [Page Length], and [1 inch Skip] are not affected by extension commands sent from users.

■ Text

Sets the print quality mode to [High Quality] (default) or [Draft].

Note
- This only changes the status of the setting and not the actual print quality.
- This setting is affected by “Text” commands sent from users.

■ Minimum Text

Sets whether or not to reduce the size of single-byte characters when printing.

The following options are available:

[Off] (default)
Prints single-byte characters without reducing their sizes.

[On]
Prints single-byte characters in reduced sizes.

■ Char. Code Table

If the Chinese font kit is installed, select the type of character code table for single-byte characters. The options are [Graphics] (default) and [Slant].

■ Page Length

Sets the length of one page (printable area) to [11 Inches] (default) or [12 Inches].

■ 1 inch Skip

Sets whether or not to leave 1-inch space between pages.

The following options are available:

[Off] (default)
Does not leave 1-inch space between pages.

[On]
Leaves 1-inch space between pages. The printer skips a space between cut sheets as it skips over the perforation on continuous-form paper.

Note
- This feature is available when [Page Position] is set to [CSF Off].

■ Feed Position

Sets the position where printing starts by the length from the top edge of paper. The options are [8.5 mm] (default) and [22 mm]. If setting this value in inches, select [0.3"] (default) or [0.9"].

■ CR Functions

Sets how to handle CR command.

The following options are available:

[CR] (default)
Performs a carriage return only.

[CR/LF]
Performs a carriage return and then a line-feed.

■ 0 Style

Sets the character style of "0" (zero).

The following options are available:

[Zero] (default)
Uses "0" without a slash (normal style zero).

[Zero (With Slash)]
Uses "0" with a slash through it.

Specify Extension

Sets whether or not to enable the extension specified by selecting [Enable] or [Disable] (default). When the extension is enabled, printing can be controlled using text codes.

Note
- An extended command is prefixed with an extender followed by command identification data and parameter data (if necessary). An extension is the first 2 bytes of an extended command (ESC (1BH in hexadecimal) followed by a ";" (semicolon or 3 BH in hexadecimal)).

Extension

Sets the extension (first 2 bytes) of an extended command if you want to enable printing by text codes. The codes between 0x21 and 0x7d are valid. The default is [&%].

Note

- An extended command is prefixed with an extender followed by command identification data and parameter data (if necessary). An extension is the first 2 bytes of an extended command (ESC (1BH in hexadecimal) followed by a ";" (semicolon or 3 BH in hexadecimal)).

Form Overlay

Performs Form Overlay if you select a form registered in the ESC/P mode (No. 01 - 64). The default is [Off].

Note

- This setting is not affected by extension commands sent from users.
- If you delete a form after selecting it, it still appears on the menu, but disappears if you switch the screens using <▼> or <▲>. If you delete the form, this setting changes to [Off].
- If you select this feature when there is no form registered in the printer, the display shows [Not registered].

Stored Prog. Menu

This menu allows you to store the settings in the NV memory (No. 01 - 05) and recall them whenever you want.

At startup

The [At startup] memory is NV memory (No. 01 to 05) stored under [Store] and recalled when the power is switched off or when the system is initialized.

Enter the number of NV memory you want to recall.

The default is [Factory Defaults], which recalls the factory default settings.

Retrieve

Recalls and retrieves the settings stored in the printer.

Enter the number of memory you want to recall.

The default is [Factory Defaults], which recalls the factory default settings.

Store

There are two types of memory: ROM that stores the factory default settings and NV memory (No. 01 to 05) that stores the user-defined settings.

The NV memory (No. 01 to 05) allows you to store the settings of mode menus in groups.

By storing the settings, you can easily recall them and do not need to enter them every time you switch on the printer.

The stored settings will be retained until you initialize the NV memory or delete the settings.

Delete

Deletes the settings stored in the NV memory.

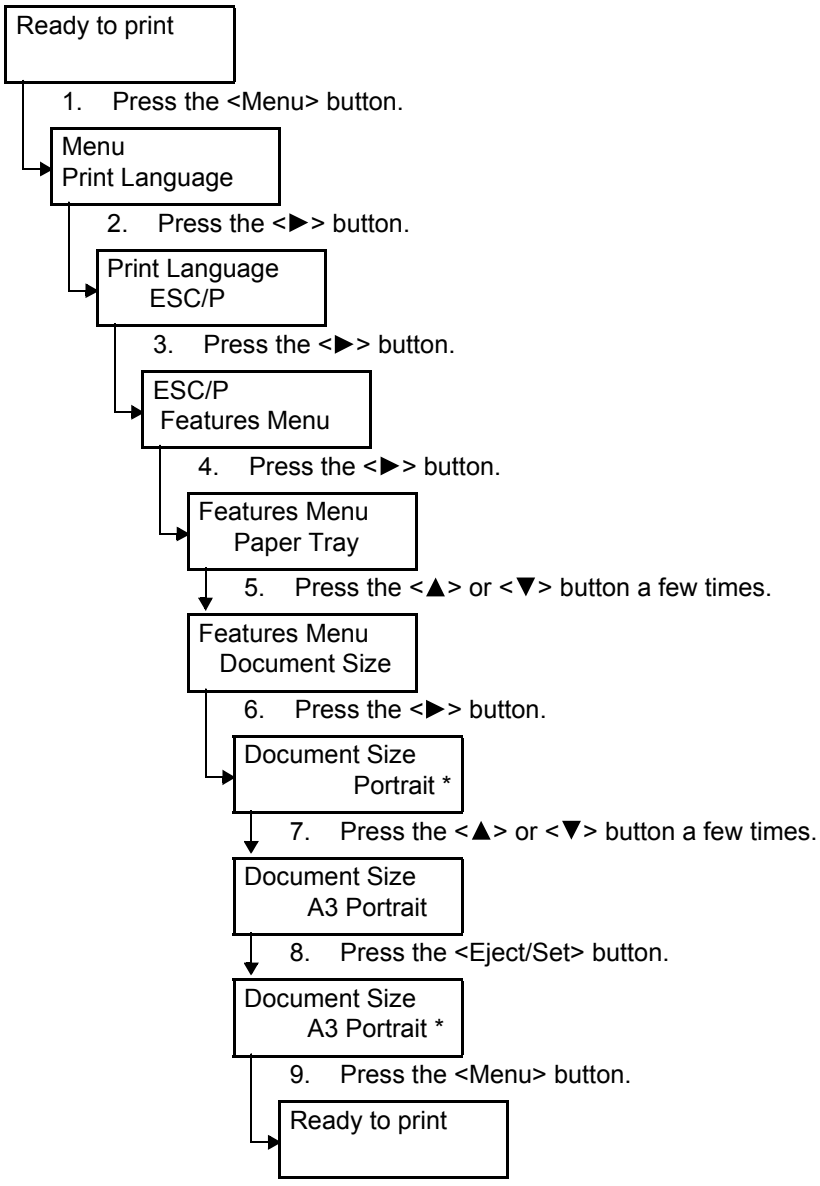
Set the number of memory to be deleted.

Note

- When no setting is stored in the NV memory, [No.01] - [No.05] do not appear on the display, and [Not registered] appears instead.

Settings the ESC/P Mode Menu

The following example shows how to set the document size of the ESC/P mode to [A3 Portrait].



2.3 ESC/P Mode Reports/Lists

This section explains the reports/lists that relate to the ESC/P emulation mode.

Note
- For information about other reports/lists that can be printed from the printer, refer to the ‘User Guide’.

Printer Settings

Lists the settings configured on the control panel, including the ESC/P settings.

To print this report/list, select [Report/List] > [Printer Settings] on the control panel.

Font List

Lists the fonts that can be used on the printer, including the fonts for the ESC/P emulation mode.

To print this report/list, select [Report/List] > [Font List] on the control panel.

User Defined List

Lists the registered forms, logos, and the usage status of the user-defined region.

To print this report/list, select [Report/List] > [User Defined] on the control panel.

ESC/P Logical Printers List

Lists the values of the settings stored in the NV memory No. 01 to 05.

To print this report/list, select [Report/List] > [ESC/P Logical] on the control panel.

3 ESC/P Mode Reference Materials

3.1 Zoom Ratio Table

Note
- Some of the following output sizes may not be available depending on the model of your printer.

Zoom Ratios - Fixed

Document Size	Output Size	A3	A4	A5	B4	B5	11x17	8.5x14	8.5x13	8.5x11	Postcard
A3	Long Edge	100	70	49	86	60	103	84	78	66	100
	Short Edge	100	70	48	86	60	94	72	72	72	100
A4	Long Edge	143	100	70	123	86	147	120	112	94	48
	Short Edge	143	100	69	123	86	135	103	103	103	45
A5	Long Edge	204	143	100	177	123	210	172	160	135	69
	Short Edge	207	145	100	178	124	195	149	149	149	65
B4	Long Edge	116	81	57	100	70	119	98	90	76	100
	Short Edge	116	81	56	100	70	109	83	83	83	100
B5	Long Edge	164	116	81	143	100	171	140	130	109	56
	Short Edge	164	116	81	143	100	156	120	120	120	53
11 x 17	Long Edge	97	68	48	84	59	100	82	76	64	100
	Short Edge	106	74	51	92	64	100	77	77	77	100
8.5 x 14	Long Edge	119	83	58	102	72	122	100	93	78	100
	Short Edge	139	97	67	120	84	131	100	100	100	100
8.5 x 13	Long Edge	128	90	63	111	77	132	108	100	84	100
	Short Edge	139	97	67	120	84	131	100	100	100	100
8.5 x 11	Long Edge	152	106	74	131	92	156	128	119	100	100
	Short Edge	139	97	67	120	84	131	100	100	100	100

Document Size	Output Size	A3	A4	A5	B4	B5	11x17	8.5x14	8.5x13	8.5x11	Postcard
Postcard	Long Edge	100	100	145	100	178	100	100	100	100	100
	Short Edge	100	100	153	100	190	100	100	100	100	100
15 x 1	Long Edge	119	83	58	103	72	122	100	93	78	100
	Short Edge	103	72	50	89	62	97	74	74	74	100
15 x 2	Long Edge	119	83	58	103	72	122	100	93	78	100
	Short Edge	95	66	46	81	57	89	68	68	68	100
10 x 11	Long Edge	147	103	72	127	89	151	124	115	97	50
	Short Edge	142	99	68	122	85	133	102	102	102	45
10 x 12	Long Edge	135	95	66	117	81	139	114	105	89	46
	Short Edge	142	99	68	122	85	133	102	102	102	45

Unit: %

Note
- When the zoom ratio of either the long edge or short edge is not within 45 - 210%, the zoom ratio of both the long edge and short edge will be 100%.

Zoom Ratios - Fixed (When 2 Pages Up is Enabled)

Document Size	Output Size	A3/2	A4/2	A5/2	B4/2	B5/2	11x17 /2	8.5x14 /2	8.5x13 /2	8.5x11 /2	Postcard /2
A3	Long Edge	70	49	100	60	100	66	50	50	50	100
	Short Edge	70	48	100	60	100	72	59	54	45	100
A4	Long Edge	100	70	48	86	60	94	72	72	72	100
	Short Edge	100	69	48	86	59	103	84	78	65	100
A5	Long Edge	143	100	69	123	86	135	103	103	103	45
	Short Edge	145	100	69	124	86	149	121	112	94	47
B4	Long Edge	81	57	100	70	49	76	58	58	58	100
	Short Edge	81	56	100	70	48	83	68	63	53	100

Document Size	Output Size	A3/2	A4/2	A5/2	B4/2	B5/2	11x17 /2	8.5x14 /2	8.5x13 /2	8.5x11 /2	Postcard /2
B5	Long Edge	116	81	56	100	70	109	83	83	83	100
	Short Edge	116	80	55	100	69	120	98	90	76	100
11 x 17	Long Edge	68	48	100	59	100	64	49	49	49	100
	Short Edge	74	51	100	64	100	77	62	58	48	100
8.5 x 14	Long Edge	83	58	100	72	50	78	60	60	60	100
	Short Edge	97	67	100	84	57	100	82	75	63	100
8.5 x 13	Long Edge	90	63	100	77	54	84	64	64	64	100
	Short Edge	97	67	100	84	57	100	82	75	63	100
8.5 x 11	Long Edge	106	74	51	92	64	100	77	77	77	100
	Short Edge	97	67	46	84	57	100	82	75	63	100
Postcard	Long Edge	100	145	100	178	124	100	149	149	149	65
	Short Edge	100	153	105	190	131	100	185	172	144	71
15 x 11	Long Edge	83	58	100	72	100	78	60	60	60	100
	Short Edge	72	50	100	62	100	74	60	56	47	100
15 x 12	Long Edge	83	58	100	72	100	78	60	60	100	100
	Short Edge	66	46	100	57	100	68	55	51	100	100
10 x 11	Long Edge	103	72	50	89	62	97	74	74	74	100
	Short Edge	99	68	47	85	59	102	83	77	64	100
10 x 12	Long Edge	95	66	46	81	57	89	68	68	68	100
	Short Edge	99	68	47	85	59	102	83	77	64	100

Unit: %

Note

- When the zoom ratio of either the long edge or short edge is not within 45 - 210%, the zoom ratio of both the long edge and short edge will be 100%.

Zoom Ratios - Whole Output Size

Document Size	Output Size	A3	A4	A5	B4	B5	11x17	8.5x14	8.5x13	8.5x11	Postcard
A3	Long Edge	98	69	48	85	59	101	83	77	64	100
	Short Edge	97	68	47	84	58	91	70	70	70	100
A4	Long Edge	138	97	68	120	84	142	117	108	91	100
	Short Edge	137	96	66	118	82	129	99	99	99	100
A5	Long Edge	196	137	96	169	118	201	165	153	129	66
	Short Edge	195	136	94	168	117	183	140	140	140	62
B4	Long Edge	113	79	55	98	68	116	95	88	74	100
	Short Edge	112	78	54	97	67	105	81	81	81	100
B5	Long Edge	160	112	78	138	97	165	135	125	105	54
	Short Edge	158	110	76	136	95	149	114	114	114	50
11 x 17	Long Edge	95	67	47	82	57	98	80	74	63	100
	Short Edge	103	72	50	89	62	97	74	74	74	100
8.5 x 14	Long Edge	116	81	57	100	70	119	98	90	76	100
	Short Edge	133	93	64	115	80	125	96	96	96	100
8.5 x 13	Long Edge	125	87	61	108	75	128	105	97	82	100
	Short Edge	133	93	64	115	80	125	96	96	96	100
8.5 x 11	Long Edge	147	103	72	127	89	151	124	115	97	100
	Short Edge	133	93	64	115	80	125	96	96	96	100
Postcard	Long Edge	100	195	136	100	168	100	100	100	183	94
	Short Edge	100	201	139	100	173	100	100	100	207	91
15 x 11	Long Edge	135	95	66	117	81	139	105	114	89	46
	Short Edge	142	99	68	122	85	133	102	102	102	45

Document Size	Output Size	A3	A4	A5	B4	B5	11x17	8.5x14	8.5x13	8.5x11	Postcard
15 x 12	Long Edge	135	95	66	117	81	139	105	114	89	46
	Short Edge	142	99	68	122	85	133	102	102	102	45
10 x 11	Long Edge	147	103	72	127	89	151	115	124	97	50
	Short Edge	142	99	68	122	85	133	102	102	102	45
10 x 12	Long Edge	147	103	72	127	89	151	124	115	97	50
	Short Edge	142	99	68	122	85	133	102	102	102	45

Unit: %

Note
- When the zoom ratio of either the long edge or short edge is not within 45 - 210%, the zoom ratio of both the long edge and short edge will be 100%.

Zoom Ratios - Whole Output Size (When 2 Pages Up is Enabled)

Document Size	Output Size	A3/2	A4/2	A5/2	B4/2	B5/2	11x17 /2	8.5x14 /2	8.5x13 /2	8.5x11 /2	Postcard /2
A3	Long Edge	69	48	100	59	100	64	49	49	100	100
	Short Edge	68	47	100	58	100	70	57	53	100	100
A4	Long Edge	97	68	47	84	58	91	70	70	70	100
	Short Edge	96	66	46	82	57	99	80	74	62	100
A5	Long Edge	137	96	66	118	82	129	99	99	99	100
	Short Edge	136	84	65	117	80	140	114	106	88	100
B4	Long Edge	79	55	100	68	48	74	57	57	57	100
	Short Edge	78	54	100	67	46	81	66	61	51	100
B5	Long Edge	112	78	54	97	67	105	81	81	81	100
	Short Edge	110	76	53	95	65	114	93	86	72	100
11 x 17	Long Edge	67	47	100	57	100	63	48	48	48	100
	Short Edge	72	50	100	62	100	74	60	56	47	100

Document Size	Output Size	A3/2	A4/2	A5/2	B4/2	B5/2	11x17 /2	8.5x14 /2	8.5x13 /2	8.5x11 /2	Postcard /2
8.5 x 14	Long Edge	81	47	100	70	49	76	58	58	58	100
	Short Edge	93	50	100	80	55	96	78	72	61	100
8.5 x 13	Long Edge	87	61	100	75	52	82	63	63	63	100
	Short Edge	93	64	100	80	55	96	78	72	61	100
8.5 x 11	Long Edge	103	89	100	89	72	97	74	74	74	100
	Short Edge	93	80	100	80	55	96	78	72	61	100
Postcard	Long Edge	195	136	94	168	117	183	140	140	140	62
	Short Edge	201	139	96	173	119	207	169	156	131	65
15 x 11	Long Edge	95	66	46	81	57	89	68	68	68	100
	Short Edge	99	68	47	85	59	102	83	77	64	100
15 x 12	Long Edge	95	66	46	81	57	89	68	68	68	100
	Short Edge	99	68	47	85	59	102	83	77	64	100
10 x 11	Long Edge	103	72	50	89	62	97	74	74	74	100
	Short Edge	99	68	47	85	59	102	83	77	64	100
10 x 12	Long Edge	103	72	50	89	62	97	74	74	74	100
	Short Edge	99	68	47	85	59	102	83	77	64	100

Unit: %

Note

- When the zoom ratio of either the long edge or short edge is not within 45 - 210%, the zoom ratio of both the long edge and short edge will be 100%.

3.2 Output Size and Printing Columns/Rows

Note
- Some of the following output sizes may not be available depending on the model of your printer.

Feed Position - 22 mm

Output Size	Portrait		Landscape	
	Column	Row	Column	Row
A3	113	92	161	63
B4	97	78	139	53
A4	79	63	113	42
B5	68	53	97	35
A5	54	42	79	27
Postcard	35	30	54	19
11 x 17	106	94	166	58
8.5 x 14	81	76	136	43
8.5 x 13	81	70	126	43
8.5 x 11	81	58	106	43

Feed Position - 8.5 mm

Output Size	Portrait		Landscape	
	Column	Row	Column	Row
A3	113	95	161	66
B4	97	82	139	56
A4	79	66	113	45
B5	68	56	97	39
A5	54	45	79	31
Postcard	35	30	54	19
11 x 17	106	98	166	62
8.5 x 14	81	80	136	47
8.5 x 13	81	74	126	47
8.5 x 11	81	62	106	47

Note
- The above values are based on 10 cpi character pitch and 6 lpi line pitch.
- The zoom ratios for both the long edge and short edge are 100%.

Whole Output Size

Output Size	Portrait		Landscape	
	Column	Row	Column	Row
A3	116	99	165	70
B4	101	85	143	60
A4	82	70	116	49
B5	71	60	101	42
A5	58	49	82	34
Postcard	39	34	58	23
11 x 17	110	102	170	66
8.5 x 14	85	84	140	51
8.5 x 13	85	78	130	51
8.5 x 11	85	66	110	51

Note
- The above values are based on 10 cpi character pitch and 6 lpi line pitch.

15” Continuous-Form-Paper Mode (Landscape Fixed/Flush Left)

Output Size	Portrait		Landscape	
	Column	Row	Column	Row
All supported paper sizes	136	66	136	72

Note
- The above values are based on 10 cpi character pitch and 6 lpi line pitch.

10” Continuous-Form-Paper Mode

Output Size	Portrait		Landscape	
	Column	Row	Column	Row
All supported paper sizes	80	66	80	72

Index

B

barcode 11

E

emulation mode 7
ESC/P Logical Printers List 22

F

font cache 9
Font List 22
force-eject function 10
form 11
Form Overlay 11

H

host interface 7

M

mode menu 12
mode menu, setting 21
Multiple Up 11

O

outline font 9

P

print columns/rows 29
Printer Settings (list) 22

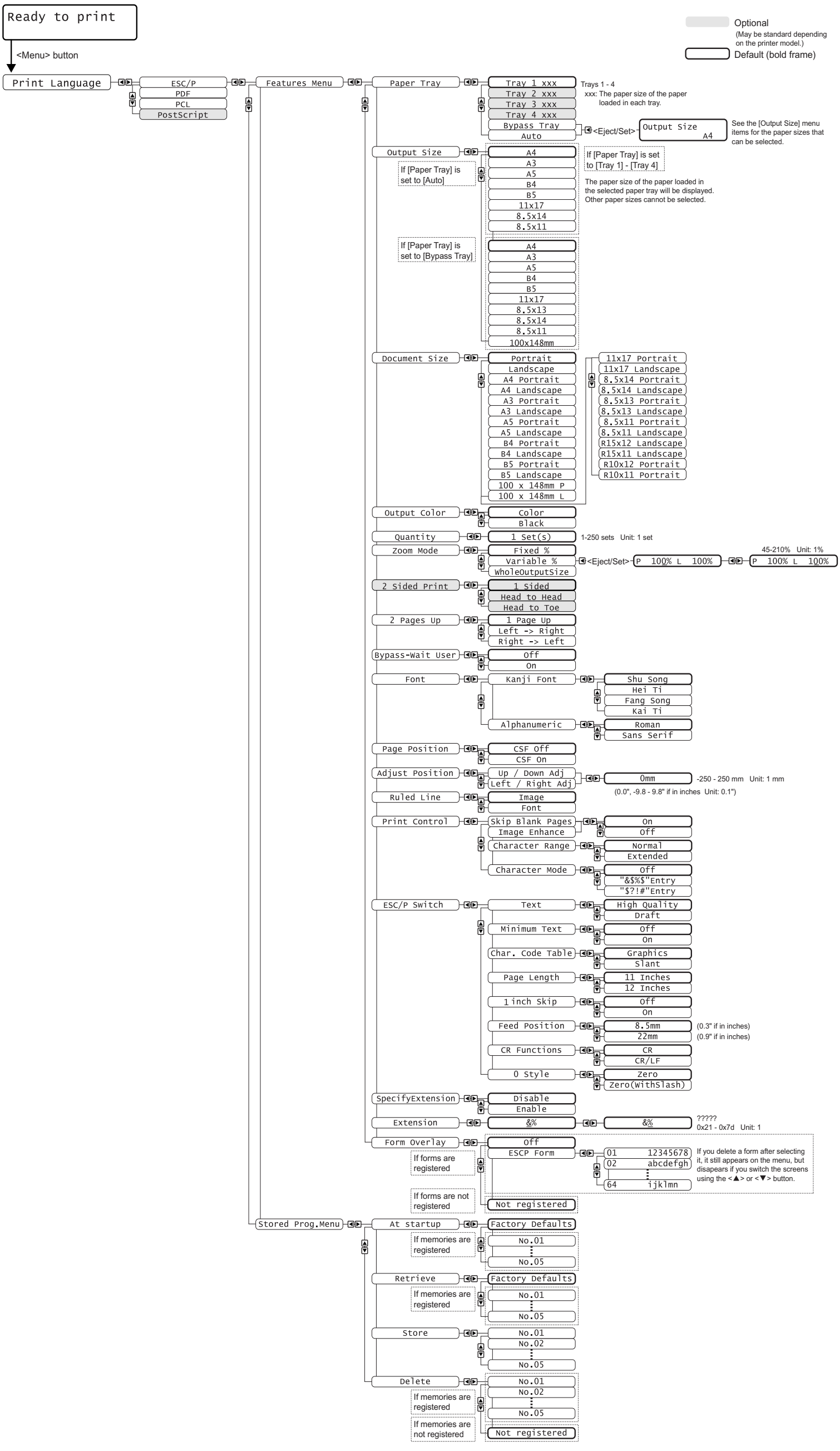
U

User Defined List 22
user-defined characters 9

Z

zoom ratio - Fixed 23
zoom ratio - Fixed
(when 2 Pages Up is enabled) 24
zoom ratio - Whole Output Size 26
zoom ratio - Whole Output Size
(when 2 Pages Up is enabled) 27

Mode Menu (ESC/P)



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