Konica IP-411



Print Controller

User's Guide

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Welcome to Konica's new print controller.

This new print controller is an image processing device that interfaces with your Konica printer main body, enabling you to print directly from your workstation.

Use this equipment according to instructions in this manual, which includes print controller specifications as well as detailed information on printer functions, printer drivers and driver screens. A display of fonts, symbol sets and printer commands is also included in this manual.

Other product-related manuals include the main body engine user's manual and the network interface card user's guide for the network administrator.

Should you need assistance on technical matters not covered in this manual, please phone the Konica support center at 1(800)825-5664.

Konica is committed to serving you the best way possible and we welcome your comments on this manual. Please send correspondence regarding this manual to our mailing address shown below.

We also invite you to visit Konica's Web Site to view or print user's manuals directly from your PC and to learn more about our full product line. Our Web Site address is:

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Mailing Address:

KONICA BUSINESS TECHNOLOGIES, INC.

Marketing/DSSG 500 Day Hill Road Windsor, CT 06095

Definition of Terms

DPI - Dots Per Inch

The image resolution of the printer engine.

Double-Buffering

The embedded print controller is designed with an asynchronous connection between its Main CPU and the print engine. This allows the main CPU to rasterize pages into memory even when the print engine is busy printing pages from a previous job, or is being fed pages. This is commonly known as 'double-buffering' and allows higher throughput.

E-RDH - Electronic Recirculating Document Handler

An electronic memory and processing system where each image is scanned once and stored in memory. Each image is output face down in the desired order and according to special options.

Error Diffusion

A 'dithering' or half toning system that does not use 'patterns' of dots, but places the dots in a pseudorandom distribution.

I/O - Input/Output

Refers to the Input and Output channels of the system.

OHP/OHT - Overhead Projection/Overhead Transparency

The transparency media used in the bypass.

PCL - Printer Control Language

A term introduced by Hewlett Packard in their LaserJet series of printers. This product utilizes PCL-5E.

PostScript

A page description language designed by Adobe Systems Inc. This product utilizes Adobe PostScript Level 2.

Konica

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Konica IP-411

FCC Regulations

The Konica IP-411 generates, uses, and can radiate radio frequency energy. If the equipment is not installed and used in accordance with the instruction manual, interference with radio communications may result. This equipment has been tested and found to comply with the limits for a Class A computing device, pursuant to Subpart J, Part 15, of FCC rules, which are designed to provide reasonable protection against interference from such equipment when it is operating in a commercial environment.

Users operating this equipment in a residential area are likely to cause interference, in which case they may be required to correct the interference at their own expense.

Canadian Department of Communications Regulations

Le présent appareil n'émet pas de bruits radioélectriques dépassant les limites applicables aux de Class A prescrites dans le règlement sur la brouillage radioélectrique édicté par Le Ministère des Communications du Canada.

This equipment does not exceed the Class A limits for radio noise emissions as set out in the radio interference regulations of the Canadian Department of Communications.

EN60950 EN50081-1 EN50082-1

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Introduction

The print controller interfaces directly with your Konica printer main body, enabling you to print directly from your PC or network. Please note that the network interface manual is provided separately for the network administrator..

This print controller supports PCL 5E and PostScript Level 1 & 2 compliant files and automatically uses the correct language for each print job, provided the print job follows specific industry standard conventions for detecting the beginning and end of each job.

Basically, print controller language detection works as follows:

- To determine the language in which a job was created, the preprocessor checks the beginning of each job.
- When a specific language code is detected, the preprocessor switches to that language, then processes the job.
- If the preprocessor cannot determine which language to use, the default language will be used for the job.
- The system determines when the end of the job is reached by the *end-of-file* command of each language or by a 30-second time-out.
- For language switching to function correctly, the system must be able to detect when the end of the job is reached.

PCL 5E: The PCL 5E interpreter of the print controller is PowerPCL from Pipeline Associates, Inc. PowerPCL is an HP PCL 5E clone that supports multiple resolutions and PJL commands.

PostScript: The optional PostScript interpreter for the print controller is PowerPage2 from Electronics for Imaging, Inc. This is a Level 2 PostScript interpreter that also has Level 1 compatibility. The PostScript programming language is specifically tailored to produce images in a device independent manner. PostScript language programs are reproducible on virtually any device without significant differences, except for differences created in the devices themselves.

PJL Commands: Many of the PJL commands, as defined by HP, are supported by the print controller. Several special functions are controlled in PCL mode via the PJL commands. In addition, commands to provide bidirectional (BiDi) functionality are also supported.

System Configuration

The Konica IP-411 Print Controller is an embedded control board for the Konica 7040/7033 Copier engine and is based on an IBM compatible PC architecture that includes the following:

Intel Pentium 233 MMX CPU
PCI bus interface to 7040/7033 Copier engine
PCI bus interface to optional network board (KN-302)
Standard 32 MB 168 pin DIMM memory
IDE 8 MB Flash (standard)
IDE Hard Drive (optional HD-104)

The IP-411 embedded control board contains custom hardware and software for communicating with and controlling the print engine. The IP-411 embedded control board can be reprogrammed in the field via the Parallel Port or through the network.

Settings

Default Settings

Default Paper Size Letter

Default Resolution 400 dpi

Default Emulation PCL 5E

Default Printer Quality Text Mode

Other Settings

E-RDH Print Order Normal
Duplex Off
Sheet Insertion Off
Paper Thickness Normal
Print Density Engine default
Finisher Mode Job Offset

Media Support

The Print Controller supports the following paper dimensions and orientations through the printer's main body.

USA (inches)

(11 x 17)
(8.5×14)
(8.5 x 11)
(11 x 8.5)
(5.5×8.5)
(297 x 210 mm)
(210 x 297 mm)
(364 x 257)

Europe (millimeters)

A3R	(297 x 420)
A4	(297 x 210)
A4R	(210 x 297)
A5R	(210 x 148)
B4R	(364 x 257)
B5	(182 x 257)
B5R	(257 x 182)
F4R	(330.2 x 203.2)

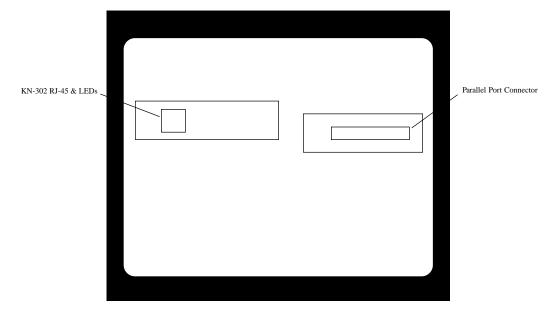
NOTE: An 'R' next to the paper size indicates that the short edge feeds first.

Special Media

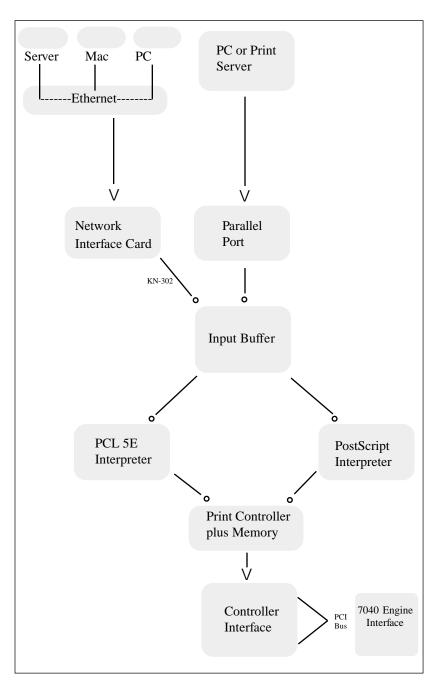
Paper type can be specified from the print job screen. Overhead transparency material (OHT/OHP), thick paper, and thin paper can only be used through the manual bypass tray. After selecting the manual bypass tray, you will be prompted to insert the requested paper size into the tray.

Layout

Main Body Engine Rear View



I/O Interfaces



The Print Controller 1-6

Memory Configuration

Most of the print controller memory is used for rasterizing the image. A small portion (~2.7 MB) is used for the system operation.

The basic print controller configuration includes 32 MB of RAM. Even with 16 MB, 1-bit mode printing at 400 dpi is available on all paper sizes. By replacing the standard 32 MB DIMM, the print controller may be upgraded to 64 MB (standard) to allow 8.5"x11" grayscale printing; or 128 MB (optional) to allow 11"x17" or A3 grayscale printing or double buffering on smaller paper sizes.

When using the E-RDH in the one-sided mode, printing will be performed simultaneously while the print controller rasterizes the pages in the print job and sends them to the E-RDH memory. While pages are being printed from the E-RDH memory, the print controller continues to rasterize the next print job in the sequence.

The more memory in the print controller, the more pages it can rasterize while waiting for the previous job to print. A typical example of the memory requirements for a Letter page is as follows:

	1-Bit	8-Bit
400 DPI	1,870 Kbytes	14.96 Mbytes
600 DPI	4,207 Kbytes	33.66 Mbytes

32 MBytes installed = 15 pages @ 1-Bit, 400 DPI

You may select various image quality modes from your print driver screen to produce various levels of grayscale. The following Table shows the available image quality modes and the grayscale levels they produce.

Print Mode	Print Engine	Print Controller	Grayscale
Text (PCL/PS)	1-Bit Mode	1-Bit Mode	2 Levels
High (PS)	8-Bit Mode	8-Bit Mode	256 Levels

Memory Upgrade Modules

To obtain optimal printer performance, Konica recommends that DIMM modules be installed by a Konica certified technician. For details, contact your Konica service representative; or the Konica National Systems Solutions Group at 1(800) 825-5664.

Specifications

System

Architecture IBM Compatible PC System
Processor 233 MHz Intel Pentium MMX
Memory 32 MB standard - MU105

64 MB - MU301 128 MB - MU302

Hard Drive IDE Compatible - Laptop HD-104

IDE Flash 8 MB

Input/Output Interfaces

Parallel IEEE 1284 compatible bidirectional compatible

Network Connectivity Optional KN-302

Ethernet Network Interface (10Base2/10Base-T)

NetWare 3.x, 4.x (IPX/SPX) Apple Talk (Ether Talk) TCP/IP (LPD/LPR)

LAN Manager/Server (NetBios) via TCP/IP

SNMP

PDL Support

Standard PCL 5E
Optional PostScript 2

Font Support

PCL 45 PCL Fonts

PostScript 35 PostScript Fonts (optional)
Driver Software Windows 3.1, 3.11, Windows 95

Windows NT Workstation & Server (ver. 3.x, 4.x)

Macintosh and UNIX

Print Controller FeaturesIP-411 w/o Hard DiskIP-411 w/Hard DiskJob SpoolingNoYes

Job RecoveryNoYesFont DownloadNoYesForms OverlayNoYes

Rec. Oper. Environment 50°~86°F (10°~30° C); 10~80% RH **Warm Up** Approx. 1.5 min. @ 68°F (20°C); 50% RH

Power Source +5V/4.8A; +12V/.13A; -12V/0A

Power Consumption 25.56 W (Running Mode)

Radio Interference FCC Rules part 15, Class A; CE Class B

Main Body Safety Std. UL 1950; TUV-GS

The Print Controller 1-8



Installing Printer Drivers

Windows 3.x

The Printer Drivers that come with the IP-411 Print Controller are actually software programs that enable you to control all the printing settings for the selected printer.

Before you can print from your application (e.g., spreadsheet or word processor), the appropriate printer driver must be installed on your computer system.

Installing Printer Drivers is a simple procedure that includes the following:

- Installing a specific printer driver
- Assigning a port to the printer
- Specifying settings for your printer (optional)
- Setting the default printer

Installing a Specific Printer Driver (ex. Windows 3.x Printer Driver)

- 1. Double-click the Main icon in Program Manager.
- 2. Choose the Control Panel icon.
- 3. In the Control Panel window, choose the Printers icon.
- 4. Choose the Add button.
- 5. In the List Of Printers box, select Install Unlisted or Updated Printer.

Depending on your printer driver version, you may need to click the Browse button to find and select the printer driver. Then, click OK until the Add Unlisted or Updated Printer box displays. To install a driver that is listed but not installed, highlight it in the *List of Printers* box.

- 6. Choose the Install button.
- 7. Insert the disk containing the printer driver into your floppy drive, The default for the Konica drivers is drive A. If you are using a different drive, specify it. When the appropriate drive is selected, click on OK.
- 8. In the Add Unlisted or Updated Printer box, select the appropriate driver and click on OK.
- 9. The printer name will appear in the list of installed printers.

Installing Printer Drivers

Windows 3.x

Assigning a Port

By default, LPT1 will be assigned to the newly installed printer.

- 1. To assign a different port, click on the Connect button.
- 2. In the Ports list, select the port you want to assign to the printer.

NOTE: When installing to a network, up to three LPT printers can be assigned (LPT1, LPT2, LPT3) without having to add more through the WIN.INI file. Should it be necessary to add more than three printers, click on the Help button in the Connect box for instructions.

Tip: If you print to LPT1 in Windows 3.x and LPT1 is redirected to another port, the printer will not print. To correct this, select LPT1.DOS in the Connect dialog box.

Specifying Printer Settings

This is an optional step for making changes to the default printer settings, such as paper size or orientation. These settings can be temporarily overridden from within your application.

- 1. Click on the Setup button in the Printers dialog box.
- 2. When the Setup box is displayed, make the desired selections.

Setting the Default Printer

When you install a printer, it will automatically be highlighted in the Printers dialog box.

- 1. Highlight the printer you want as the default printer.
- 2. Click on the Set As Default Printer button.

NOTE: Some applications act as a control panel, making their settings become the system default. This is not a function of the driver.

Checking the Version of A Printer Driver

Windows 3.x

There may be times when you need to know if you are using the most up-to-date printer driver. Use the following procedure to check the version of a printer driver.

- 1. Highlight the driver in the Printers dialog box.
- 2. Click on the Setup button.
- 3. Click on the About button.
- 4. The About dialog box will be displayed with the printer version shown.

Printing Modes

Output Quality

High Mode (PostScript)

High Mode produces 256-level grayscale printing with 8 bits per pixel.

Text Mode (PCL/PostScript)

Text Mode performs normal quality 2-level grayscale printing.

Normal/Reverse Print Order

Some applications have a Reverse Print Order setting; if selected, the setting will do exactly as it indicates.

Duplex Mode

Stackless duplex means that the duplex mode makes unlimited 2-sided prints.

Mode Restriction: Duplex Mode cannot be used together with the manual Feed Tray or High Mode.

Offset Stacker/Stapler

Multiple sets are copied and offset from each other with or without stapling.

Mode Restriction: Job Offset or Stapling cannot be used with the Manual Feed Tray.

NOTE: When switching resolution, wait up to 5 min. for the temperature adjustment to take place.

Printing Modes

Real Time Mode Print

The print controller performs page printing and starts printing as soon as it starts receiving a print job. This is different from *document printing*, where a printer starts printing only after receiving the entire print job.

Dual Access

The Dual Access function provides an efficient means for the printer to simultaneously handle different types of printer/copier jobs. Dual Access capabilities are shown below:

- Scanning-Printing
- Printing Copying
- Printing Printing
- Copying- Copying
- Copying Printing

The Electronic Recirculating Document Handler (E-RDH) allows the print engine to receive a job while it is printing your scanned or stored documents.

The print engine controls and creates the messages on the operation panel screen. The operation panel screen generates a Job Status screen, which is a copier type tab-based screen.

When you access printer setting values and parameters, the print controller will take over the control of the operation panel screen.

Image Density Selection

Controlling the Print Density level provides an efficient way to save toner. You may select this function directly from your print driver screen.

There are five distinct Print Density modes that can be used. Each mode is listed below, along with the corresponding level of toner density used by the mode.

Normal 100%
 Toner Save Mode 80%
 Draft Mode 60%

Tray Selection/Paper Selection

The system selects the paper size and paper tray in the manner specified below.

When Paper Size is Not Specified

? When a print job *does not specify paper size*, the default paper size will be used.

When a Paper Tray is Specified

- ? When the print job *specifies a tray*, one of the following occurs:
 - (a) If the requested tray contains paper, the printer will use the requested tray.
 - (b) If the requested tray contains no paper, the printer will NOT look for another tray that may contain the requested paper size.

NOTE: Make sure the tray you specify is supplied with the desired paper type and size.

Auto Tray Selection Mode

- ? If you request a paper size in the application screen, the printer will locate the paper source for that paper size and print the job.
- ? If a paper size you requested in the application screen cannot be located, the system will prompt you with a message on the control panel to request another paper size. In the event you are prompted to request another paper size, you may do one of the following:
 - (a) Load the desired paper size in the manual tray or in tray 1 and continue printing.
 - (b) Select another paper size and print.
 - (c) Abort the job.

Special Paper (OHP/Thin/Thick)

? If there is no paper installed, or if the wrong size paper is installed, the system will prompt you to install paper.

Font Selection

Standard fonts of the PostScript and PCL 5e languages are displayed on the following pages. The PostScript fonts shown are the visual equivalent of the Adobe fonts with the same names.

A PostScript compatible file system is provided for storing downloaded fonts or other files. At this time, PCL 5e does not support storing downloaded fonts on a hard drive.

Fonts that are downloaded with a print job are lost when the language changes or when the power is turned off. PostScript fonts can be permanently installed on the hard drive. Refer to your software documentation for font installation procedures.

Selecting Fonts from Application Software

Fonts can be selected through your application software after you have set up your hard disk with the necessary printer files and font files. Refer to your application software documentation for details.

Selecting PCL 5 Fonts using Embedded Printer Commands

Some applications allow embedded commands to be entered in your file from within your document. When an embedded printer command is entered, the printer performs a font search to match the certain font characteristics, e.g., spacing, pitch, point size. Printer commands for PCL 5 are included in Section 5.

NOTES:

- 1. Temporary soft fonts that are downloaded for a specific document are deleted when the font printout is generated; and they do not appear on the font printout.
- 2. Downloaded permanent soft fonts remain resident in the printer until they are replaced with other fonts or until the printer is turned off.
- 3. PostScript fonts listed are the visual equivalent of Adobe font names and are not the actual Adobe fonts.

Font Characteristics

A font is described by its Symbol Set and font characteristics, such as, Typeface, Point Size, Pitch, Spacing, Stroke Weight and Style.

Symbol Set: A Symbol Set relates to the unique set of all available alphanumeric, punctuation, and special symbols in a font. More than one Symbol Set can be used by one font, e.g., the math symbol set, legal symbol set, and Roman-8 symbol set.

Typefaces: Times Roman abcdefABCDEF&%!Helvetica abcdefABCDEF 12345&%! Typeface relates to the design of all the characters and symbols that make up a font, including serif and sans serif design. Times Roman displays the serif design, Helvetica displays the san serif design.

Point Size: 8 Point abcdefABCDEF12345&%! 12 Point abcdefABCDEF 12345&%! Point size relates to font height, and is measured in points at 72 points per inch. Point size is fixed in a bitmapped font, and variable in a scalable font.

Pitch: Courier 10 Point 12 Pitch Courier 12 Point 10 Pitch Pitch relates to the number of characters per horizontal inch. Fonts have either fixed pitch or proportional spacing. Proportional spacing means the number of characters per inch is variable. A 12 pitch font, for example, prints 12 characters per horizontal inch.

Spacing: Fixed Spacing Courier 10 Proportional Spacing Times Roman 10 Spacing relates to the amount of space allotted to each character, as for [i] and [x]. In Fixed Spacing, each character occupies either the same amount of space and is *fixed*. In Proportional Spacing, each character space varies according to the width of the character and is *proportional*. Whether Fixed or Proportional, the specified amount of space allotted to characters is specified for the entire font.

Stroke Weight: Helvetica Narrow abcdefABCDEF12345&%! **Helvetica Bold abcdefABCDEF12345&%!** Stroke weight relates to print thickness of each character and is measured in terms of light (as in Helvetica Narrow), medium (as in Helvetica), and bold (as in Helvetica Bold).

Style: Helvetica Oblique abcdefABCDEF12345&%!

Style relates to posture (upright, italics), width (condensed, normal, expanded), and structure (outline, solid, shadow).

PostScript Printer Language Fonts

The following fonts are the visual equivalent of Adobe font names.

AvantGarde-Book
AvantGarde-BookOblique
AvantGarde-Demi

AvantGarde-DemiOblique

Bookman-DemiltalicBookman-Light
Bookman-LightItalic

Courier

Courier-Bold

Courier-BoldOblique
Courier-Oblique

Helvetica

Helvetica-Oblique
Helvetica-Bold

Helvetica-BoldOblique

Helvetica-Narrow-Oblique Helvetica-Narrow-Bold Helvetica-Narrow-BoldOblique

NewCenturySchlbk-Bold NewCenturySchlbk-Italic

NewCenturySchlbk-Italic NewCenturySchlbk-Roman

Palatino-Bold
Palatino-BoldItalic
Palatino-Italic
Palatino-Roman
Symbol

Times-Bold
Times-BoldItalic
Times-Italic
Times-Roman

ZapfChancery-MediumItalic

ZapfDingbats

ABCDEFGHIJ1234567890 ABCDEFGHIJ1234567890 ABCDEFGHIJ1234567890 ABCDEFGHIJ1234567890 ABCDEFGHIJ1234567890 ABCDEFGHIJ1234567890

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ABCDEFGHIJ1234567890

PCL Printer Language Fonts

The interpreter for the PCL language interprets the following fonts for a PCL print job.

Coronet Clarendon Condensed

Marigold Letter Gothic

Letter Gothic BoldLetter Gothic Italic

Garamond Kuraiv Halbfett

Antique Olive

Antique Olive Bold

Antique Olive Italic

Garamond Antique

Garamond Halbfett

Garamond Kuraiv

Arial

Arial Bold
Arial Italic

Arial Bold Italic Times New Roman

Times New Roman Bold Times New Roman Italic Times New Roman Bold Italic

Symbol Wingdings Courier

Courier Bold
Courier Italic

Courier Bold Italic
Albertus Medium
Abertus Extra Bold

ABCDEFGHIJ9876543210

ABCDEFGHIJ9876543210 ABCDEFGHIJ9876543210 ABCDEFGHIJ9876543210

ABCDEFGHIJ9876543210 ABCDEFGHIJ9876543210

ABCDEFGHIJ9876543210 ABCDEFGHIJ9876543210

ABCDEFGHIJ9876543210 *ABCDEFGHIJ9876543210* ABCDEFGHIJ9876543210

ABCDEFGHIJ9876543210 ABCDEFGHIJ9876543210 ABCDEFGHIJ9876543210

ABCDEFGHIJ9876543210 ABCDEFGHIJ9876543210 ABCDEFGHIJ9876543210

ABCDEFGHIJ9876543210 **ABCDEFGHIJ9876543210 ABCDEFGHIJ9876543210 ABCDEFGHIJ9876543210** ABXΔΕΦΓΗΙ99876543210

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ABCDEFGHIJ9876543210 ABCDEFGHIJ9876543210 ABCDEFGHIJ9876543210 ABCDEFGHIJ9876543210 ABCDEFGHIJ9876543210

ABCDEFGHIJ9876543210

(Continued)

PCL Printer Language Fonts

The interpreter for the PCL language interprets the following fonts for a PCL print job.

(Continued from previous page)

CG Times ABCDEFGHIJ9876543210 CG Times Italic ABCDEFGHIJ9876543210 CG Times Bold ABCDEFGHIJ9876543210 CG Times Bold Italic ABCDEFGHI,19876543210 CG Omega ABCDEFGHIJ9876543210 CG Omega Bold ABCDEFGHIJ9876543210 CG Omega Italic ABCDEFGHIJ9876543210 CG Omega Bold Italic ABCDEFGHIJ9876543210 Univers Medium ABCDEFGHIJ9876543210 ABCDEFGHIJ9876543210 Univers Bold Univers Medium Italic ABCDEFGHIJ9876543210 Univers Bold Italic ABCDEFGHIJ9876543210 Univers Medium Condensed ABCDEFGHIJ9876543210 Univers Bold Condensed ABCDEFGHIJ9876543210 Univers Medium Condensed Italic ABCDEFGHIJ9876543210 Univers Bold Condensed Italic ABCDEFGHIJ9876543210

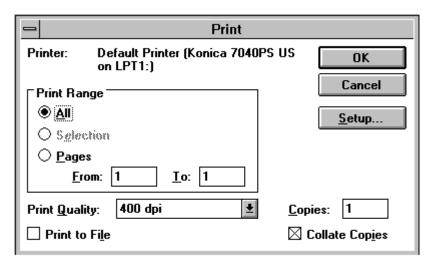


Overview

This section shows the various printer driver screens you will encounter when making printing selections, depending the printer driver installed. Samples include PostScript and PCL printer driver screens for Windows 3.1; and PostScript and PCL printer driver screens for Windows 95.

Windows 3.1 screens are similar to the screens in Windows for Workgroups. Many Windows 95 screens are similar to the screens in Windows NT.

When you select Print from your application screen, the following basic Windows screen displays.



Use the default settings shown on the screen or select options associated with each printing mode.

The following pages show a typical array of screens for the following printer drivers:

Windows 3.1 PS

Windows 3.1 PCL

Windows 95 PS

Windows 95 PCL

Windows NT4 PS

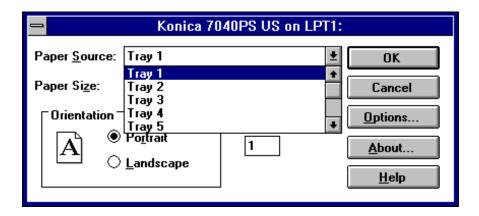
Windows NT4 PCL

3-2 Printer Driver Screens



PostScript Driver Screens for Windows 3.1

Paper Source



The Print selection screen indicates the current settings for Paper Source, Paper Size and Orientation.

Paper Source

Auto Select mode is the default setting, which means the printer will select an appropriate tray containing the desired paper size. If you do not wish to use the Auto Select mode, you may select a specific tray.

When a specific tray is selected, as from the list of tray options shown in this sample screen, the selected tray will be used if it contains paper. If the specified tray does not contain paper, the system will not use another tray, even if another tray contains the desired paper.

Paper Size

The default Paper Size is Letter size. If a different paper size is specified, it will be used if it is loaded in a tray.

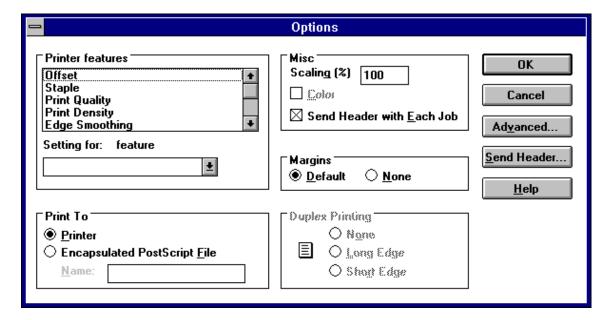
Orientation

The default orientation is Portrait, which describes the vertical rather than horizontal (Landscape) positioning of the page

If you wish to view or change other printing settings, click Options to display the screen shown on the next page.

PostScript Driver Screens for Windows 3.1

Options



When Options is selected from the initial print selection screen shown on the previous page, the above screen displays the features that allow you to control the finishing style of your print job. Features include the following:

Offset or Staple

When printing multiple sets, the Staple mode staples each separate set.

The Offset mode keeps the sets separated without stapling them.

Print Quality

When printing image that requires higher resolution than text you may select higher resolution for graphics and halftone images. The Text mode is the default.

Print Density

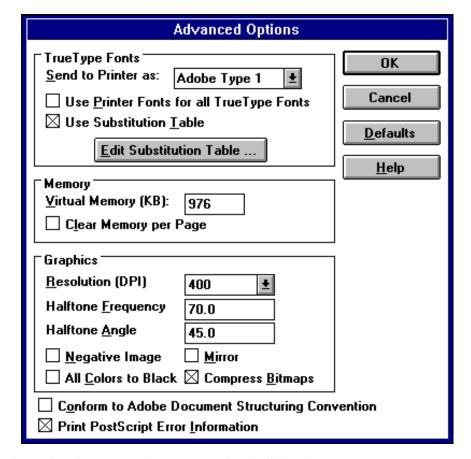
Reduce toner consumption by 20% with the Toner Saver mode or by 40% with the Draft mode. The default mode is Normal.

Edge Smoothing

Set this mode On to enhance the image by filling in feathered edges with extra toner. The default mode setting is Off.

PostScript Driver Screens for Windows 3.1

Advanced Options



The Advanced Options screen allows you to select the following:

Fonts

You may change the default font currently in use by clicking the arrow in the [Send to Printer as:] field to display the list of available fonts.

Memory

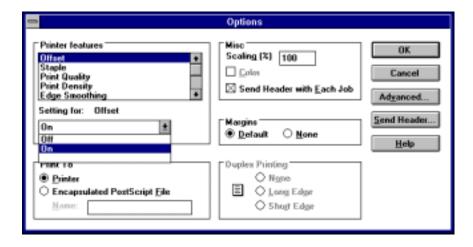
Increase the amount of memory that is currently allocated for storing pages.

Graphics

Increase the current resolution setting to handle complicated text or halftone images. Click the Resolution arrowto display the setting options. The default setting is 400 dpi.

PostScript Driver Screens for Windows 3.1

Offset Mode



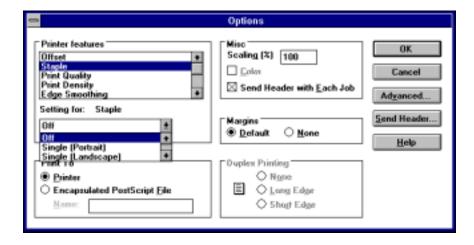
From the Options screen, use the arrow under Printer features to scroll through the list of available options.

When printing multiple sets you may select the Offset mode to keep the sets separated.

- 1 Highlight the Offset feature.
- 2 In the [Setting for: Offset] field, click Offset On.
- 3 Then click OK.

PostScript Driver Screens for Windows 3.1

Staple Mode



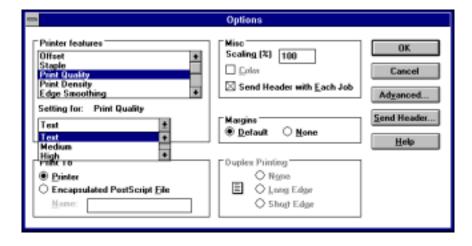
From the Options screen, use the arrow under Printer features to scroll through the list of available options.

When printing multiple sets you may select the Staple mode to staple each set.

- 1 Highlight the Staple feature.
- 2 Then, select the preferred staple style under [Setting for: Staple].
- Single Portrait mode places a staple in the upper left corner of a portrait document.
- Single Landscape mode places a single staple in the upper left corner of a landscape document.
- Double Staple mode places two staples along the left edge of a portrait or landscape document.
- 3 When the correct setting is made, click OK.

PostScript Driver Screens for Windows 3.1

Print Quality



From the Options screen, use the arrow under Printer features to scroll through the list of available options.

When your document includes graphic or halftone images that require a higher resolution than that used for text you may change the Print Quality setting.

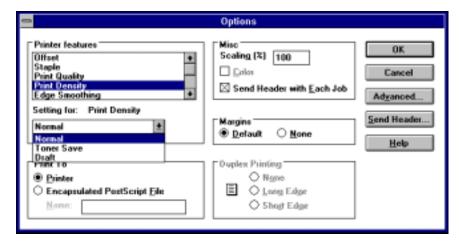
Mode settings include: Text, Medium, High and Very High.

- 1 Highlight Print Quality to display the current setting.
- 2 Use the arrow to scroll through a list of mode options.
- 3 Select the desired Print Quality mode, then click OK..

Note: Use the Very high mode for true grayscale printing.

PostScript Driver Screens for Windows 3.1

Print Density



Print Density allows you to reduce toner consumption by using the Toner Saver mode or Draft mode.

1 From the Options screen, use the arrow under Printer features to scroll through the list of available options, then highlight Print Density.

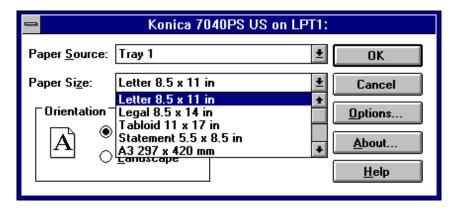
- Toner Saver mode reduces the amount of toner normally used by 20%.
- Draft mode reduces the amount of toner normally used by 40%.

The current Print Density setting will be displayed in the [Setting for: Print Density] field.

- 2 Use the arrow to scroll to the desired setting.
- 3 Click on the desired mode, then click OK.

PostScript Driver Screens for Windows 3.1

Paper Size



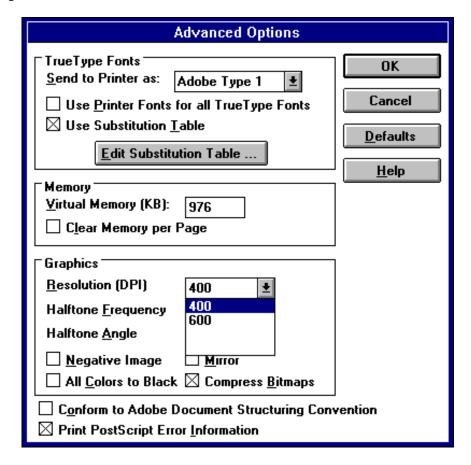
The Print screen indicates the current setting for paper size.

- 1 Use the Paper Size arrow to scroll through the list of options if you wish to select another paper size.
- 2 Double click on your selection, then click OK.

Note: If a specific paper size is selected along with a specific tray, be sure the correct paper is loaded in the selected tray, as no other tray will be used.

PostScript Driver Screens for Windows 3.1

Resolution

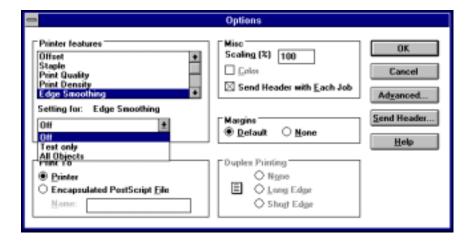


The Advanced Options screen indicates the current advanced settings and the default Resolution setting of 400 dpi.

- 1 To change the Resolution setting, click on the arrow to display the options.
- 2 Double click the desired Resolution, then click OK.

PostScript Driver Screens for Windows 3.1

Edge Smoothing



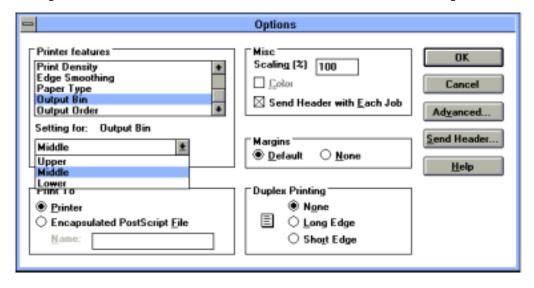
Edge Smoothing

The default setting is Off. When Edge Smoothing is turned On, edges of text or objects are filled in with extra toner and feathered edges are closed to enhance the image.

- 1 From the Options screen, use the arrow under Printer features to scroll through the list of available options.
- 2 Click on the Edge Smoothing feature. Notice that the default setting of Off is indicated in the [Setting for: Edge Smoothing] field.
- 3 To turn the setting On, click the arrow to highlight the On setting. Other settings are: **On for Text only** and **On for All Objects**.
- 4. When the setting you want is indicated, click OK.

PostScript Driver Screens for Windows 3.1

Output Bin



Output Bin

1. From the Options screen, use the arrow under Printer features to scroll through the list of available options.

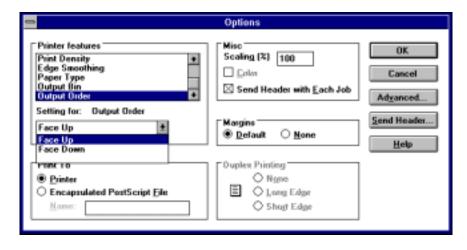
2 Click on the Output Bin feature.

Output Bin describes which area of the finisher will be used as the output tray. This enables you to control a special or high volume job you may want to run from one source. The current Output Bin setting is indicated in *Setting for: Output Bin*. The default setting is for the middle tray.

- 3 To change the setting, click the arrow to view further setting options, then select another output tray.
- 4 When the correct setting is indicated, click OK.

PostScript Driver Screens for Windows 3.1

Output Order

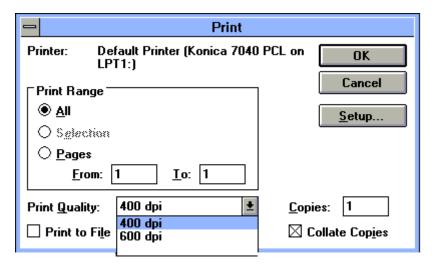


- 1 From the Options screen, use the arrow under Printer features to scroll through the list of available options.
- 2 Click on the Output Order feature to display the current setting in *Setting for: Output Order*. The default setting is Face Up. Use the face up mode when the sequential order of your document is not required. This mode is speedier than the face down mode. Select the face down mode when the sequential order of your document is required.
- 3 When the correct setting is indicated, click OK.



PCL Driver Screens for Windows 3.1

Select Print



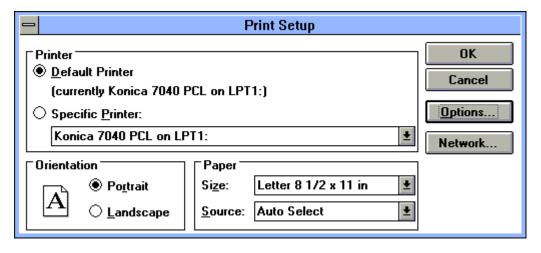
Select Print

When you select Print from your Windows application screen, the Windows Print screen displays the current settings as shown above.

To change settings, click on the Setup key to display the PCL Printer Driver screen shown on the next page.

PCL Driver Screens for Windows 3.1

Print Setup



View Current Printer Settings

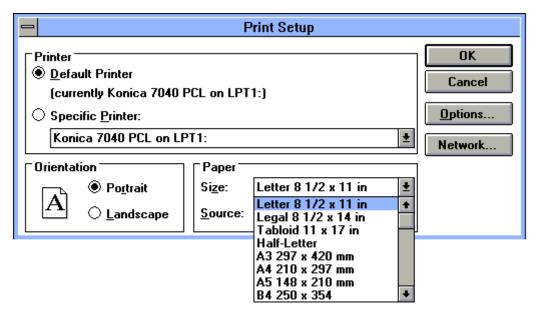
When Setup is selected from the Print screen (see previous page), the Print Setup screen displays the current settings.

The current settings indicate that the Konica 7040 printer is set up on the LPT1 port with portrait orientation, letter size paper and Auto Select mode already selected. If no changes are made, your print job will be performed according to these settings.

To view optional paper sizes, click the arrow next to paper size. (See next page.)

PCL Driver Screens for Windows 3.1

Print Setup



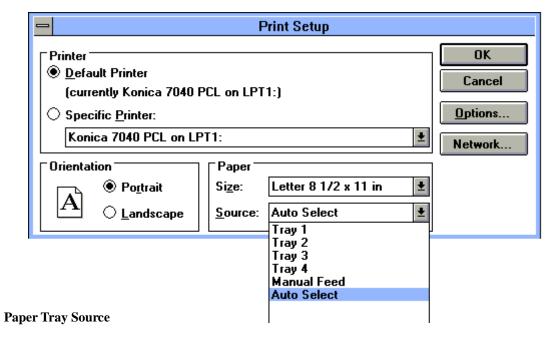
Paper Size

When you click the arrow next to paper size, optional paper sizes are listed.

If you wish to select another paper size, be sure to load that size in one of the paper trays before selecting it.

PCL Driver Screens for Windows 3.1

Print Setup



Using Auto Select

Auto Select is the default mode for paper tray Source, which means the printer will automatically locate the tray containing the selected paper size without your intervention. To view other tray options, click the arrow next to the current tray Source setting. Other paper trays are shown in the above screen.

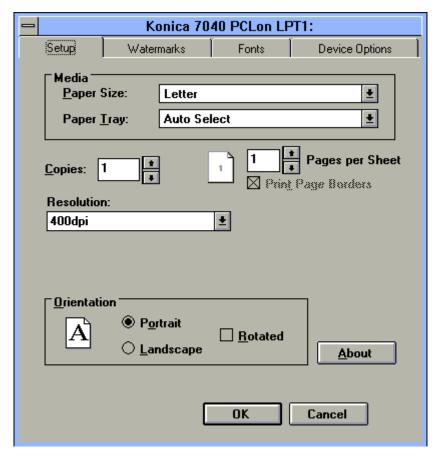
Selecting A Paper Tray

If you specify a tray, that tray will be used if it contains paper. If the selected tray is empty, the printer will not search for another tray, even if another tray contains paper.

- When the desired paper tray is indicated in the Source field, click OK.
- To see other print settings, click Options to view the screen shown on the next page.

PCL Driver Screens for Windows 3.1

Setup Tab



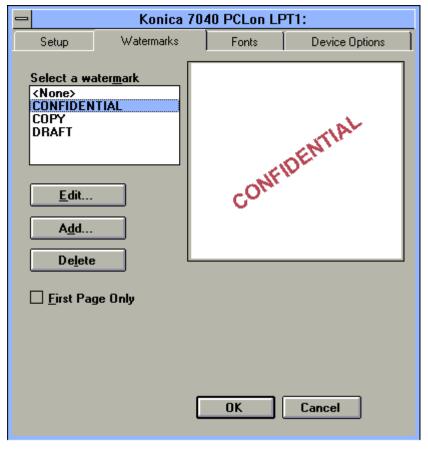
Setup Screen

The Setup tab brings you to a screen that shows the current settings for Paper Size, Paper Tray, Resolution and Orientation. This sample screen indicates that your print job will be performed on letter size paper selected by Auto Select mode with 400dpi resolution, and the paper will be output in the portrait style.

- 1. To change settings, click the arrow next to a current setting and highlight another setting.
- 2. When the setting(s) you want are indicated on the screen, click OK.

PCL Driver Screens for Windows 3.1

Watermarks Tab



Watermarks

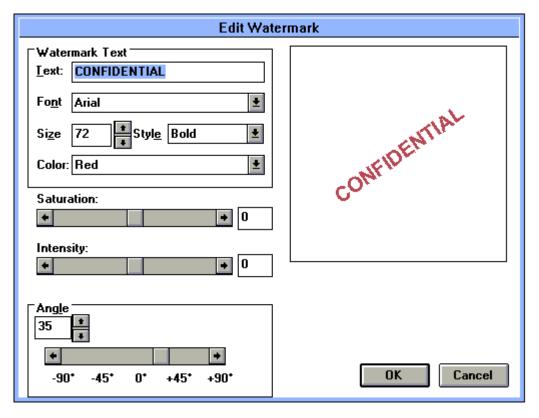
The Watermarks screen allows you to select <None>, CONFIDENTIAL, COPY, or DRAFT for your Watermark setting. You may Add a new Watermark to the list by clicking Add, and you may Edit or Delete a highlighted Watermark by clicking Edit or Delete.

To select a Watermark you want to print out on your documents, highlight it, then click OK.

If you want to edit the Watermark before printing it, click Edit to display the screen shown on the next page.

PCL Driver Screens for Windows 3.1

Edit Watermark



Edit Watermark

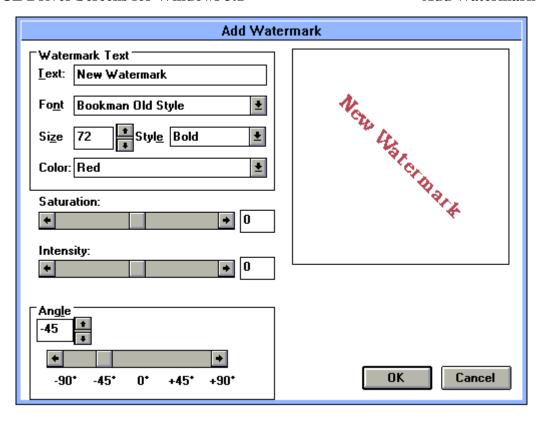
The Edit screen allows you to change the Font, Size, Style and Color of the highlighted text. Other settings allow you to adjust the Saturation and Intensity of the color.

You may also change the angle of the Watermark by clicking the left or right arrow and selecting the desired value (+) or (-) for the angle. The angle in the example shown above is 35°, which is a (+) value.

When all settings changes are made, click OK.

PCL Driver Screens for Windows 3.1

Add Watermark



Add Watermark

When you click Add on the Watermarks screen, the Add Watermark screen displays, as shown above.

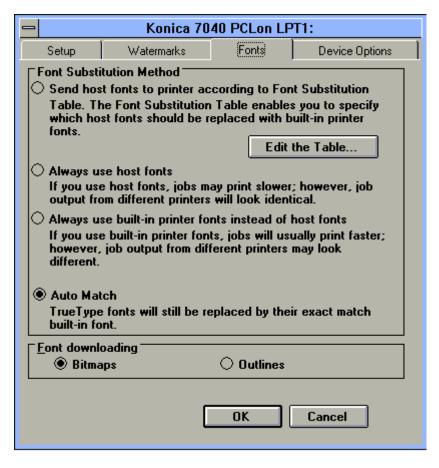
In the Text field, enter the text for a new watermark and select other attributes as desired, such as Font, Size, Style, etc.

The text for the new watermark will appear in the box on the right, as shown in the example above.

When settings are completed, click OK.

PCL Driver Screens for Windows 3.1

Fonts Tab



Fonts Settings

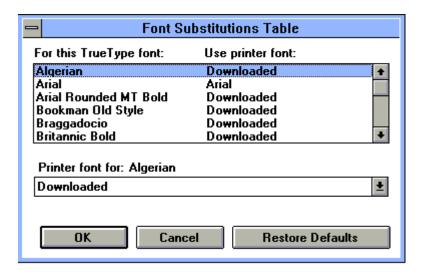
The Fonts tab displays a screen indicating the current font substitution method, along with three other options.

The default setting is Auto Match, which means TrueType fonts will be replaced by exact match built-in fonts that usually print faster. Thus, when jobs are output from different printers, the built-in exact match fonts will look identical.

If you wish to edit the Fonts Substitution Table select Edit the Table on the above screen and follow instructions on the next page.

PCL Driver Screens for Windows 3.1

Font Substitutions Table



Font Substitutions Table

When you click Edit the Table on the previous screen, a list of True Type fonts displays on the screen along with the printer's method of using each font.

The [Printer font for: Algerian] field indicates that the Algerian host font is downloaded to the printer.

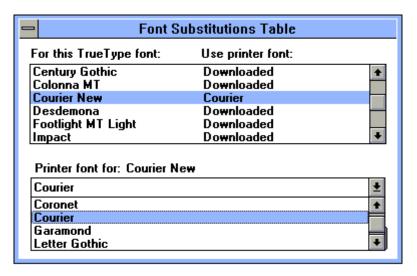
Use the arrows to scroll through the font list to see how each font is currently specified, i.e., as a downloaded font or as a built in printer font.

When the selection you want is indicated, click OK.

If no changes are required, click Cancel.

PCL Driver Screens for Windows 3.1

Fonts Substitution Table



Font Substitutions Table

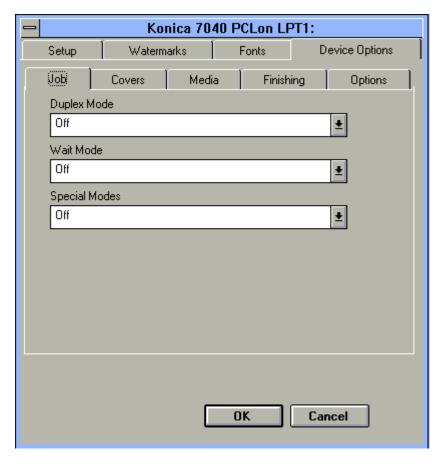
- 1. Highlight the desired font. In this screen, Courier New is highlighted.
- 2. Use the arrow in the [Printer font for:] field and scroll down to the desired setting.

In this sample screen, the [Printer font for: Courier New] field indicates that Courier is selected as the built-in auto-match printer font.

3. When the setting change is made, click OK.

PCL Driver Screens for Windows 3.1

Job Tab



Job Settings

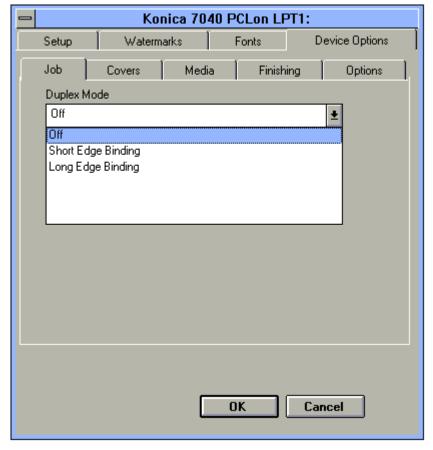
The current Job settings indicate that the Duplex Mode, Wait Mode and Special Modes are Off.

To view or change these settings, click the arrow next to the setting to display option settings, then click OK.

To view or change Duplex Mode settings, see next page.

PCL Driver Screens for Windows 3.1

Job - Duplex Mode

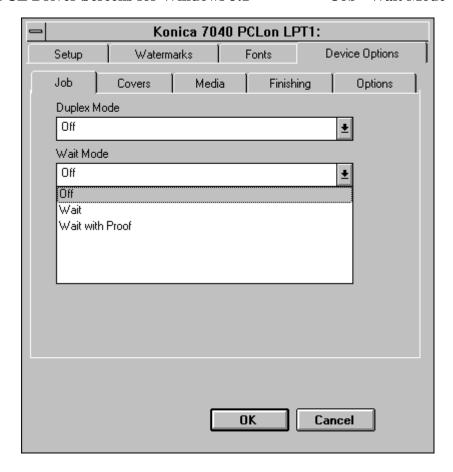


Duplex Mode

- 1. When you click the arrow next to Duplex Mode, option settings are displayed.
- Select Short Edge Binding to bind the document along the short edge (Landscape orientation).
- Select Long Edge Binding to bind the document along the long edge (Portrait orientation).
- 2. When the correct setting for binding style is indicated in the Duplex Mode field, click OK.

PCL Driver Screens for Windows 3.1

Job - Wait Mode



Wait Mode

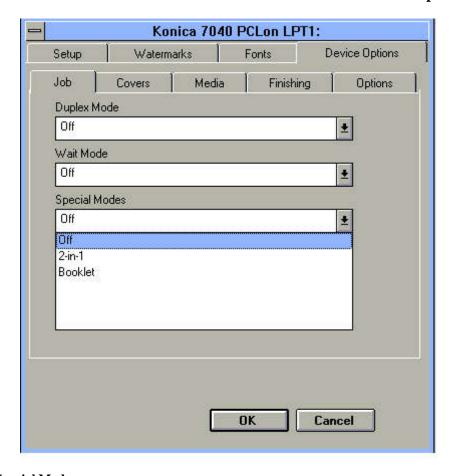
From the Job tab screen, click the arrow next to the Wait Mode field.

Select Wait On to be prompted to install special paper, such as OHP, Thin stock or Thick stock before the printing job is started. Or, select Wait with Proof to be prompted to print a proof set before printing multiple sets.

When the setting you want is indicated in the Wait Mode field, click OK.

PCL Driver Screens for Windows 3.1

Job - Special Modes



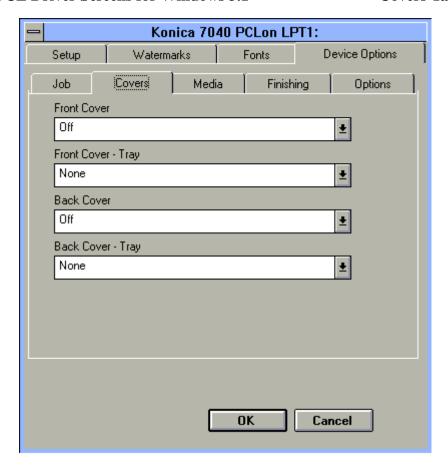
Special Modes

From the Job tab screen, click the arrow next to the Special Modes field to display the Special Modes options.

Select 2-in-1 to print two pages (images) on one standard sheet, or, select Booklet to print four pages (images) on one standard sheet. When the setting you want is indicated in the Special Modes field, click OK.

PCL Driver Screens for Windows 3.1

Covers Tab



Front and Back Covers

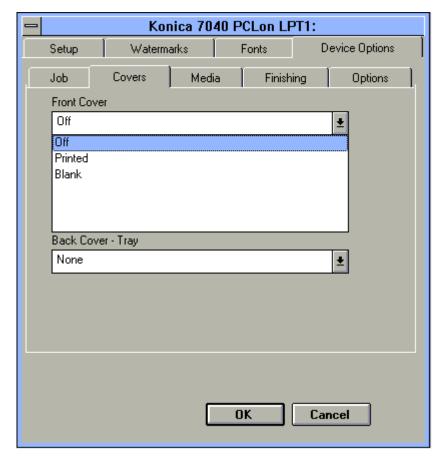
The Covers tab displays the above screen that shows the default settings for Front Cover, Front Cover Tray, Back Cover mode and Back Cover Tray.

To view or change these settings, click the arrow next to one of the settings.

Options for the Front Cover mode are shown on the next page.

PCL Driver Screens for Windows 3.1

Covers



Front Cover Mode

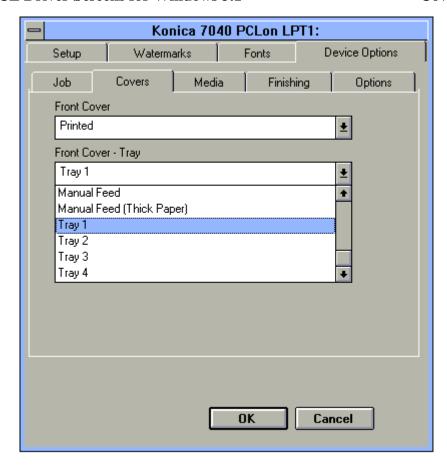
The Front Cover mode is Off by default. To view options, click the arrow next to the Front Cover field.

Select Printed to print on the Front Cover sheets before inserting them into your document. Select Blank to insert Front Cover sheets into your document without printing them first.

Front Cover sheets do not have to be plain and can be colored or preprinted (as letterhead). In the Blank mode, preprinted Front Cover sheets will be inserted without any changes. In the Printed mode, you may print directly on the preprinted Front Cover sheets.

PCL Driver Screens for Windows 3.1

Covers



Front Cover Tray

Click on the arrow next to the Front Cover Tray field to view tray options.

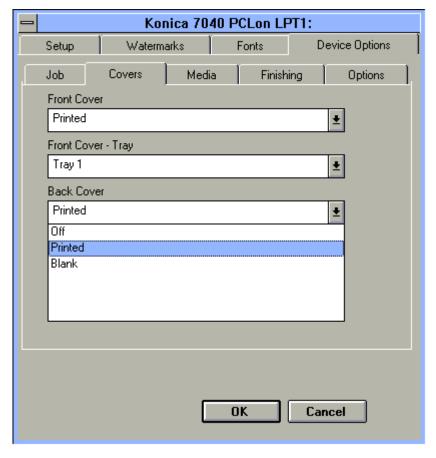
Highlight the tray you want to use for the Front Covers, then click OK. In this example, Tray 1 is selected.

If you are using colored or preprinted paper for the Front Covers, be sure to load the paper in the tray selected, otherwise the paper currently loaded will be used.

Remember that Thick Paper must be fed manually through the Bypass tray.

PCL Driver Screens for Windows 3.1

Covers



Back Cover Mode

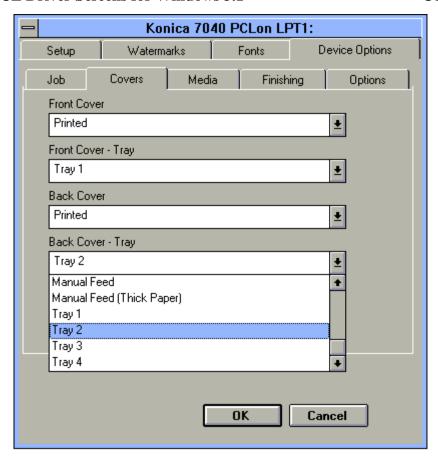
The Back Cover mode is Off by default. To view options, click the arrow next to the Back Cover field.

- Select Printed to print on the Back Cover sheets before inserting them into your document. (Even colored or preprinted Letterhead sheets will be printed in this mode.)
- Select Blank to insert the Back Cover sheets into your document without printing them first.

Sheets for Back Cover insertion can be plain, colored or preprinted (as letterhead).

PCL Driver Screens for Windows 3.1

Covers



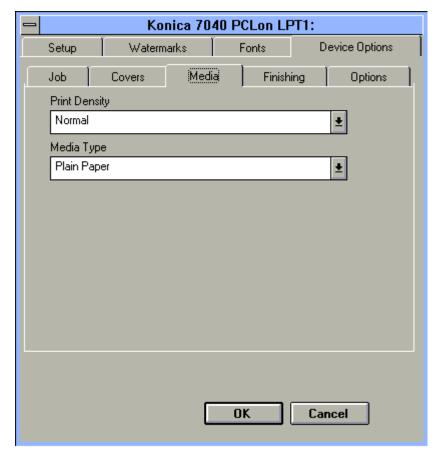
Back Cover Tray

- 1. Click on the arrow next to the Back Cover Tray field to view tray options.
- 2. Highlight the tray you want to use for Back Covers, then click OK. In this example, Tray 2 is selected.

If you are using colored or preprinted paper for the Back Covers, be sure to load the paper in the tray selected, otherwise the paper currently loaded will be used. Remember to manually feed Thick Paper through the Bypass tray.

PCL Driver Screens for Windows 3.1

Media Tab



Media Settings

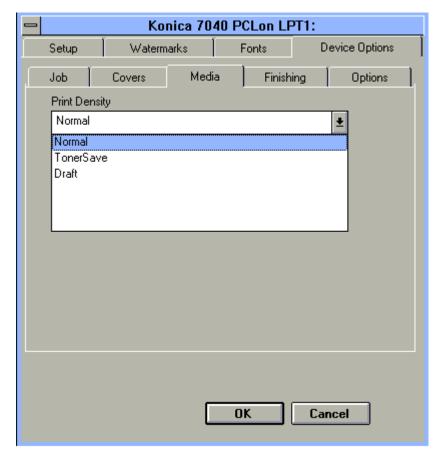
When you click on the Media tab, current settings are displayed for Print Density and Media Type.

This screen shows that Normal is selected for Print Density and Plain Paper is selected for Media Type.

To change either of these settings, click the arrow next to the current setting to display options, highlight the setting you want, then click OK (see next page).

PCL Driver Screens for Windows 3.1

Media Settings

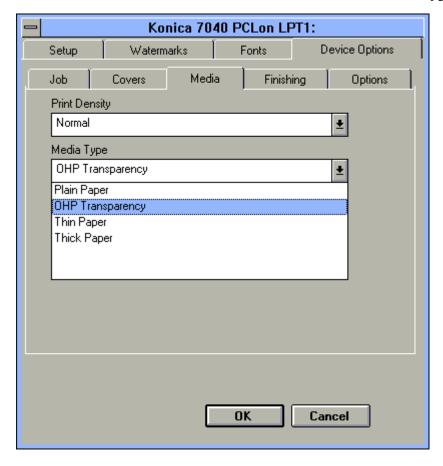


Print Density

- 1. Click the arrow next to the Print Density setting to display density options.
- Select the Toner Save mode to use only 80% of the toner normally used.
- Select Draft mode to use only 60% of the toner normally used.
- 2. When the setting you want is displayed, click OK.

PCL Driver Screens for Windows 3.1

Media Type



Media Type

- 1. Click on the arrow next to the Media Type setting to display a list of options, including OHP Transparency, Thin Paper and Thick Paper.
- 2. Highlight the desired setting.

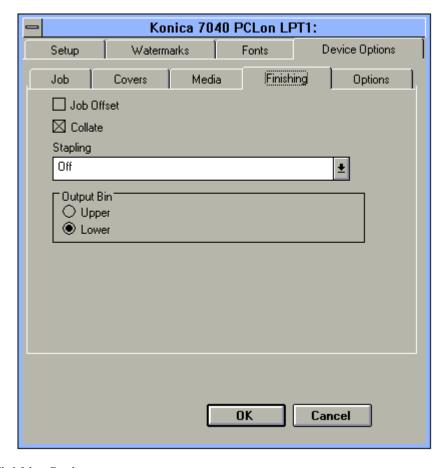
This screen shows that OHP Transparency is highlighted.

3. Click OK to complete the selection.

Keep in mind that special stock must be fed manually through the Bypass.

PCL Driver Screens for Windows 3.1

Finishing Tab



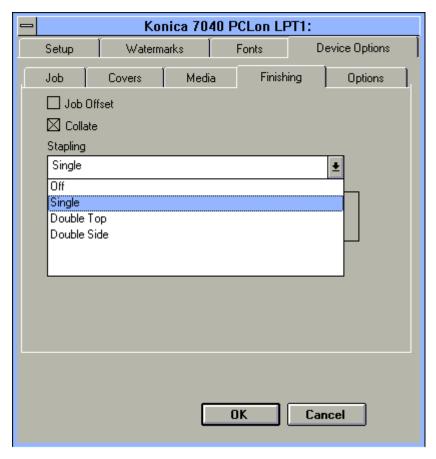
Finishing Settings

The Finishing screen shows the default settings for Collate, Stapling and Output Bin.

The default setting for Stapling is Off. Click the arrow in the Stapling field to display optional Stapling settings. (See next page.)

PCL Driver Screens for Windows 3.1

Finishing

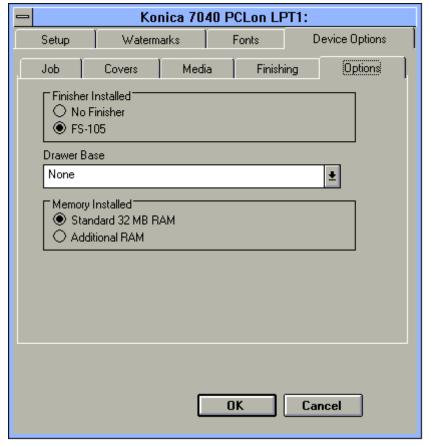


Stapling

- 1. Click the arrow in the Stapling field to display stapling options.
- Single stapling inserts one staple in the upper left corner of your document.
- Double Top stapling inserts two staples across the top edge of your document.
- Double Side stapling inserts two staples along the left edge of your document.
- 2. Highlight the desired Stapling option, then click OK.

PCL Driver Screens for Windows 3.1

Options (Device)



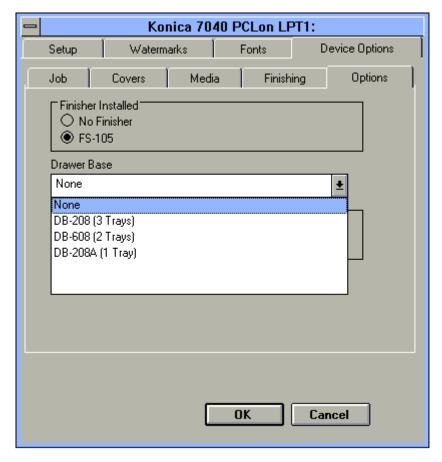
Device Settings

The Options screen shows the default settings for Finisher, Drawer Base and Memory installed.

To view or change the current Drawer Base setting, click on the arrow in the Drawer Base field (see next page.)

PCL Driver Screens for Windows 3.1

Drawer Base Setting



Drawer Base Setting

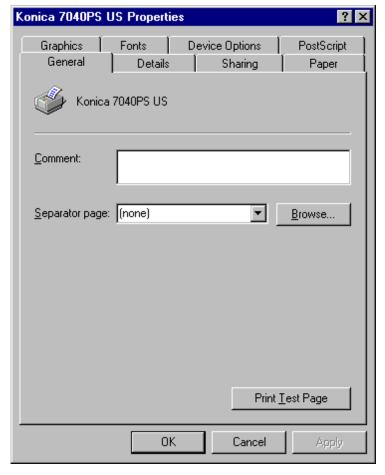
The current Drawer Base setting is displayed along with optional settings.

- 1. To change the setting, highlight the desired setting.
- 2. When the desired setting is indicated, click OK.



PostScript Driver Screens for Windows 95

General Tab



General Screen

The General tab brings you to the above basic screen that identifies the name of your printing device.

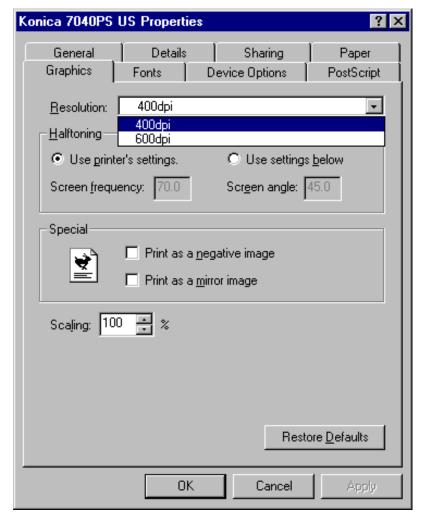
Click on Browse to review your printing environment and get questions answered up front. Or, click Print Test Page to print a test page.

Type a key word in the Comment field and click OK. The system will search for the topic and guide you further. Click on the Separator page arrow to display option settings.

The following pages show the screens for each tab selection.

PostScript Driver Screens for Windows 95

Graphics Tab



Resolution & Halftoning

The Graphics tab brings you to a screen that displays default settings for Resolution & Halftoning. The default setting for Resolution is 400 dpi with no special Halftoning selected.

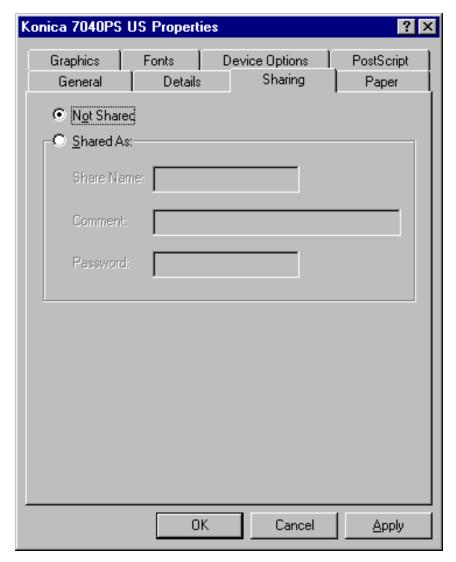
If desired, select 600 dpi Resolution or a Halftoning special mode, then click OK.

To leave the setting unchanged and exit from the screen, click Cancel. To restore the default settings, click Restore Defaults.

Printer Driver Screens 3-45

PostScript Driver Screens for Windows 95

Sharing Tab



Sharing On A Network

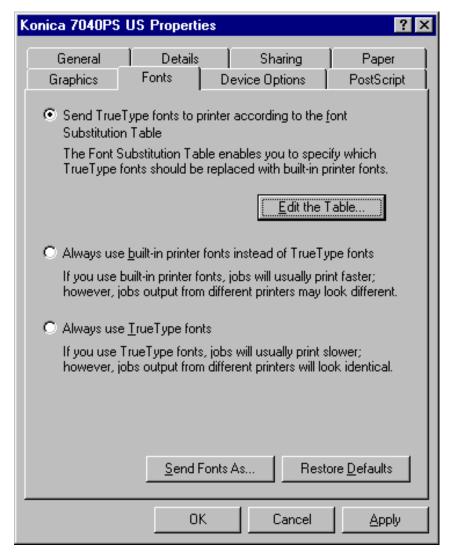
The Sharing tab displays a screen that shows whether your printer is being shared on a network.

The Not Shared status is indicated in the above screen.

If your printer is being shared, details will be indicated in the [Shared As:] field.

PostScript Driver Screens for Windows 95

Fonts Tab



Fonts Screen

The Fonts screen displays the current Font selection settings.

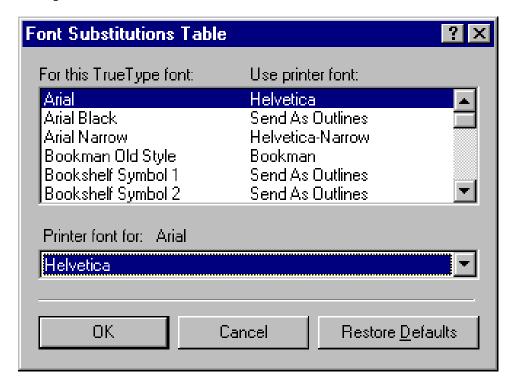
The default setting is: Send True Type fonts to printer according to the font Substitution Table.

Keep in mind that built-in printer fonts usually print faster than downloaded fonts. To edit the table, click Edit the Table and follow instructions on the next page.

Printer Driver Screens 3-47

PostScript Driver Screens for Windows 95

Font Substitutions Table



Font Substitutions Table

The Font Substitutions Table displays when you select Edit the Table from the Fonts screen shown on the previous page.

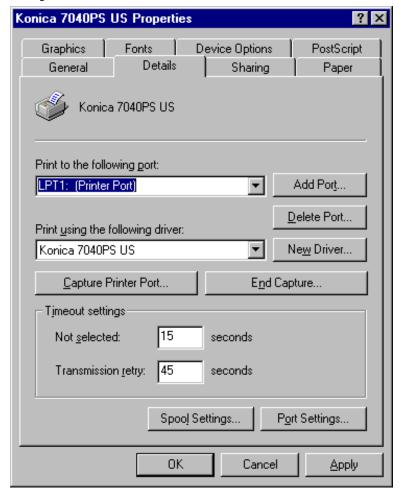
This Table lets you specify host fonts you want to be replaced with built-in printer fonts. Keep in mind that printing is faster with built-in fonts.

In this sample screen, the Arial font is downloaded for the Helvetica font.

- 1 Use the arrows to scroll through the font list to see how they are currently specified.
- 2 Highlight the font substitution you want, then click OK.

PostScript Driver Screens for Windows 95

Details Tab - Printer Port



Printer Port

The Details tab displays a screen indicating the current print port setting. The default setting is LPT1.

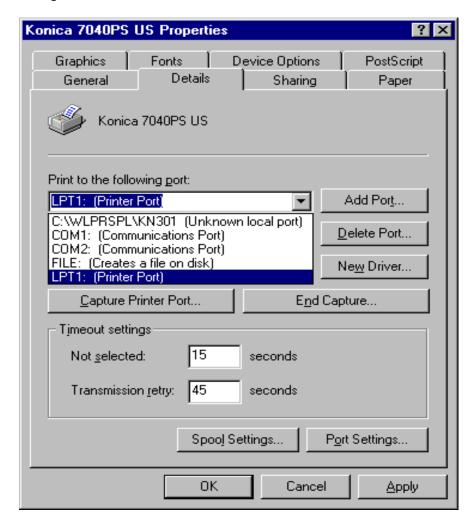
- 1 Click on the arrow next to the current setting to display the optional port settings (see next page).
- 2 When the port setting you require is indicated, click OK.

This screen also allows you to change the *Capture Printer Port.* . . *Timeout settings* used for capturing files for printing. You may need to adjust this timeout setting when printing very large files, but you will not need to change this setting to print ordinary jobs.

Printer Driver Screens 3-49

PostScript Driver Screens for Windows 95

Details Tab - Printer Port



Printer Port Setting Options

The default printer port setting is LPT1.

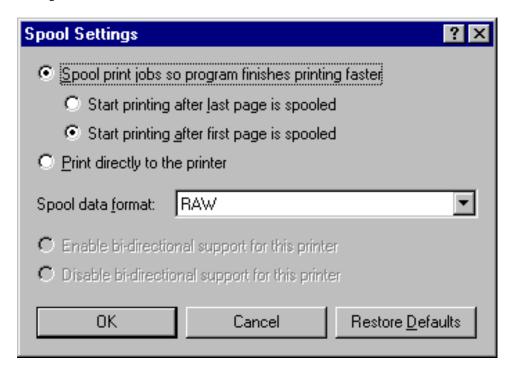
- 1 Click the arrow next to the current setting to display port options.
- 2 Highlight the desired printer port setting, then click OK.

To leave the setting unchanged, click Cancel.

3-50 Printer Driver Screens

PostScript Driver Screens for Windows 95

Details Tab



Spool Settings

When you click Spool Settings from the Details screen, the Spool Setting screen appears, as shown above.

The default Spool setting is *Start printing after first page is spooled*. This setting enables printing to start after the first page is spooled so that the print job finishes faster.

You may change this setting to Start printing after the last page is spooled, or you may Print directly to the printer.

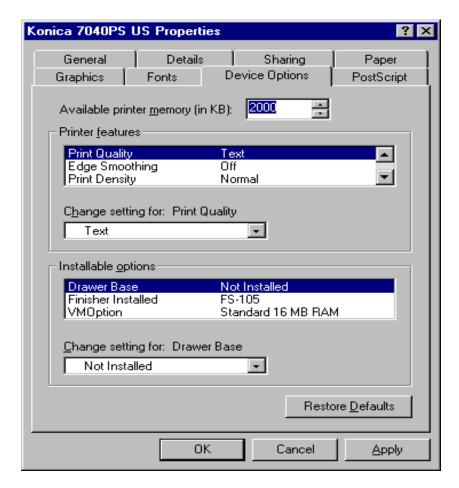
- 1 Highlight the desired Spool setting.
- 2 Click OK.

To leave the setting unchanged and exit from the screen, click Cancel.

To restore the default settings before exiting from this screen, click on the Restore Defaults button.

PostScript Driver Screens for Windows 95

Device Options Tab



Device Options

The Device Options screen displays the current settings for Printer features and Installable options.

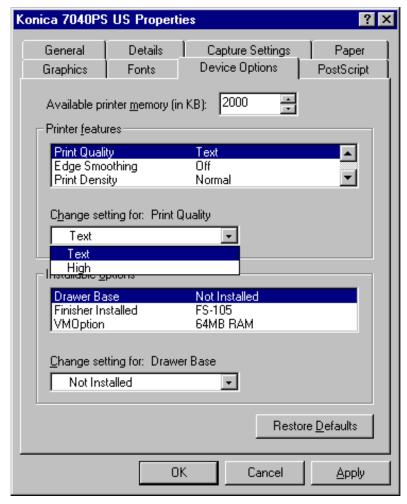
- 1 To view setting options, click the arrow next to Printer features or Installable options.
- 2 Highlight the desired setting, then click OK.

Refer to the next several pages for screen details of all Printer features and Installable options.

To exit from the screen without making changes, click Cancel.

PostScript Driver Screens for Windows 95

Device Options Tab



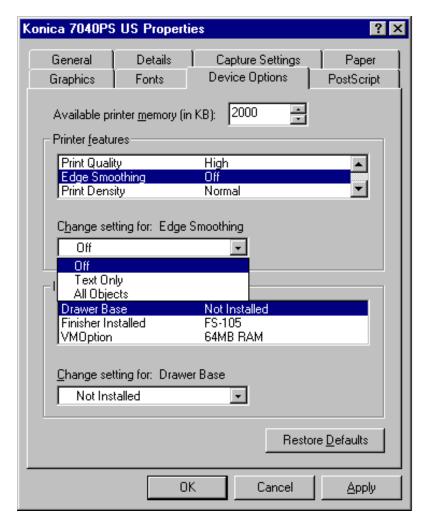
Printer Features - Print Quality

The default setting for Print Quality is Text. To change the default setting:

- 1 Use the arrow in the [Change setting for: Print Quality] field to view options.
- 2 Highlight the desired mode, then click OK.
- Select High mode to print image that requires finer resolution.

PostScript Driver Screens for Windows 95

Device Options Tab



Printer Features - Edge Smoothing

The default setting for Edge Smoothing is Off. When Edge Smoothing On, feathered edges are filled in with extra toner to make the printed image clearer.

To change the default setting and turn Edge Smoothing ON:

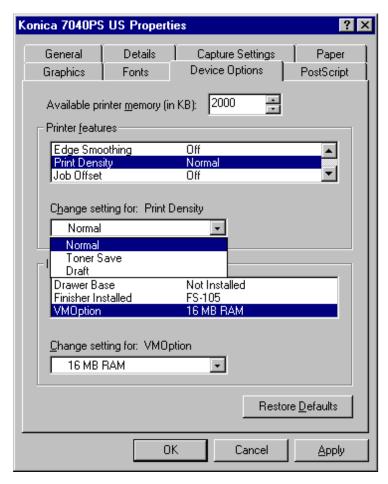
- 1 Use the arrow in the [Change setting for: Edge Smoothing] field to view options.
- 2 Highlight On, then click OK.

To leave the setting unchanged and exit from the screen, click Cancel.

3-54 Printer Driver Screens

PostScript Driver Screens for Windows 95

Device Options Tab



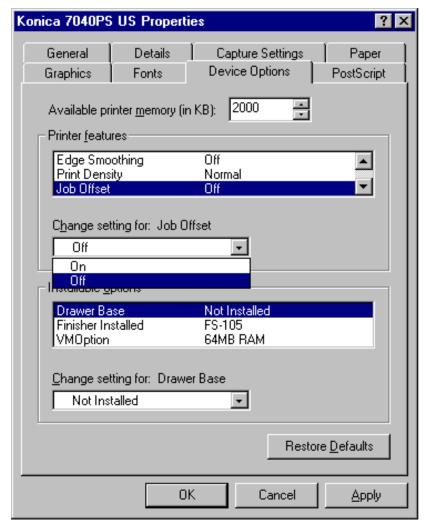
Printer Features - Print Density

The default setting for Print Density is Normal. To change the default setting:

- 1 Use the arrow in the [Change setting for: Print Density] field to view options.
- 2 Highlight the desired option, such as, Toner Save mode or Draft mode, then click OK.
- Toner Save uses 80% of the toner amount used in Normal mode.
- Draft mode uses 60% of the toner amount used in Normal mode.

PostScript Driver Screens for Windows 95

Device Options Tab



Printer Features - Job Offset

Job Offset mode delivers multiple printed set to the finisher with sets offset from one another. The default setting for Job Offset is Off. To change the default setting and turn Job Offset ON:

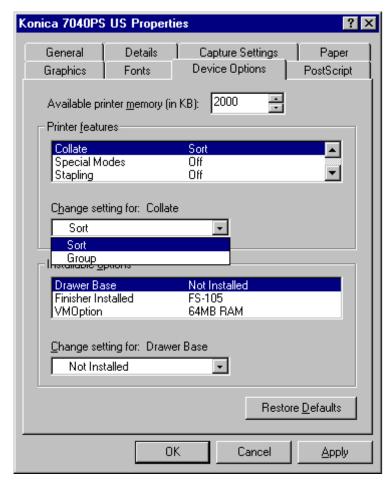
- 1 Use the arrow in the [Change setting for: Job Offset] field to view options.
- 2 Highlight On, then click OK.

To leave the setting unchanged and exit from the screen, click Cancel.

3-56 Printer Driver Screens

PostScript Driver Screens for Windows 95

Device Options Tab



Printer Features - Collate

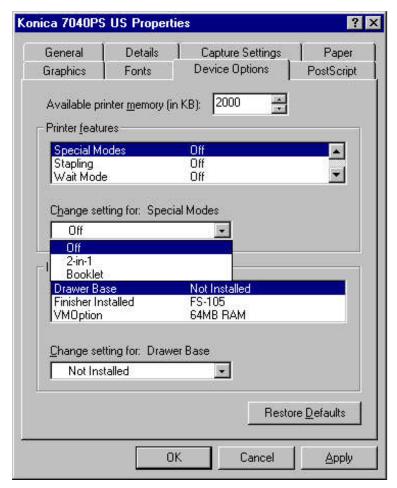
The Collate mode allows you to Sort together multiple copies of the original set or Group together multiple copies of each original page.

The default setting for Collate is Sort. To change the default setting:

- 1 Use the arrow in the [Change setting for: Collate] field to view options.
- 2 Highlight Group, then click OK.

PostScript Driver Screens for Windows 95

Device Options Tab



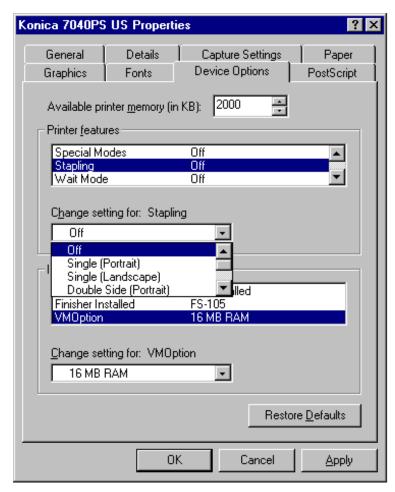
Printer Features - Special Modes

The default setting for Special Modes is Off. To change the default setting:

- 1 Use the arrow in the [Change setting for: Special Modes] field to view options.
- 2 Highlight another setting, then click OK.
- Select 2-in-1 mode to print two pages (images) on one standard size sheet.
- Select the Booklet mode to print four pages (images) on one standard size sheet.

PostScript Driver Screens for Windows 95

Device Options Tab



Printer Features - Stapling

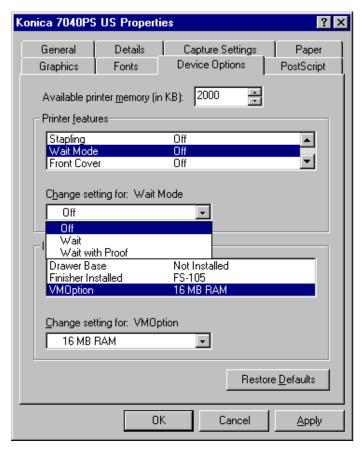
The default setting for Stapling is Off. To change the default setting:

- 1 Use the arrow in the [Change setting for: Stapling] field to view options.
- 2 Highlight another setting, then click OK.

Select Single or Double stapling on Portrait or Landscape orientation, as desired.

PostScript Driver Screens for Windows 95

Device Options Tab



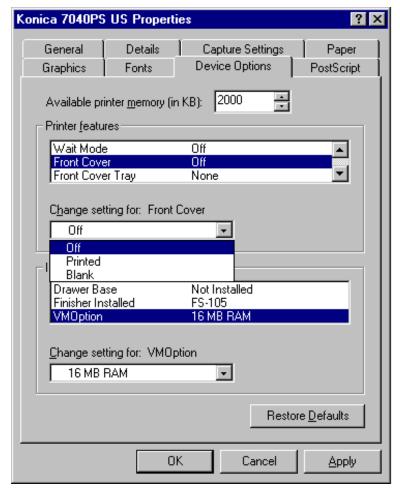
Printer Features - Wait Mode

The default setting for Wait Mode is Off. To change the default setting:

- 1 Use the arrow in the [Change setting for: Wait Mode] field to view options.
- 2 Select the desired setting, then click OK.
- Wait means you will be prompted to install special paper, e.g., OHP, Thin or Thick stock.
- Wait with Proof means that you will be prompted to print a proof set before printing multiple sets.

PostScript Driver Screens for Windows 95

Device Options Tab



Printer Features - Front Cover

The default setting for Front Cover is Off. To change the default setting:

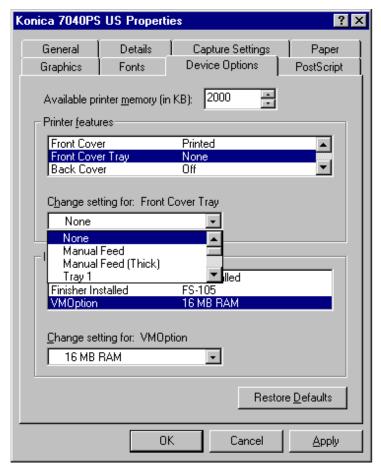
- 1 Use the arrow in the [Change setting for: Front Cover] field to view options.
- 2 Highlight On, then click OK.
- Printed means that the cover sheet will be printed prior to being inserted.
- Blank means that a blank cover sheet will be inserted, i.e., without being copied.

To leave the setting unchanged and exit from the screen, click Cancel.

Printer Driver Screens 3-61

PostScript Driver Screens for Windows 95

Device Options Tab



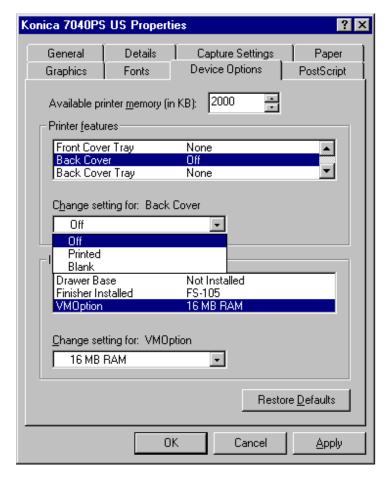
Printer Features - Front Cover Tray

The default setting for Front Cover Tray is None. To change the default setting:

- 1 Use the arrow in the [Change setting for: Front Cover Tray] field to view options.
- 2 Highlight another setting, then click OK.
- Manual feed enables you to stack 20 lb bond paper in the bypass tray for front cover insertion.
- Manual Feed (Thick) enables you to manually feed up to 32 lb bond covers from the bypass tray.
- Tray 1 enables you to feed 20 lb paper from Tray 1 for front cover insertion.

PostScript Driver Screens for Windows 95

Device Options Tab



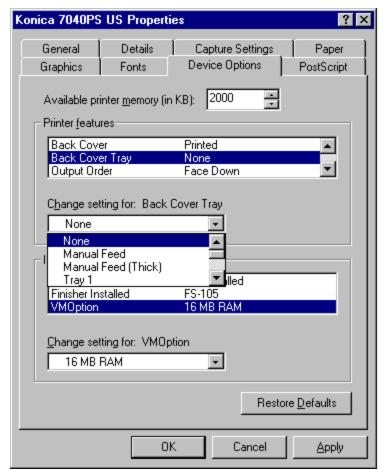
Printer Features - Back Cover

The default setting for Back Cover is Off. To change the default setting:

- 1 Use the arrow in the [Change setting for: Back Cover] field to view options.
- 2 Highlight On, then click OK.
- Printed means that back covers will be copied prior to being inserted.
- Blank means that back covers will be inserted as blank sheets, i.e., without being copied.

PostScript Driver Screens for Windows 95

Device Options Tab



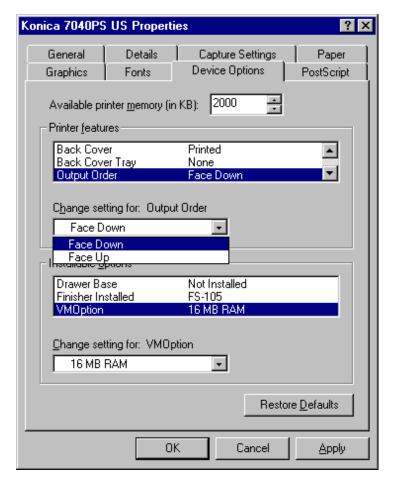
Printer Features - Back Cover Tray

The default setting for Back Cover Tray is Off. To change the default setting:

- 1 Use the arrow in the [Change setting for: Back Cover Tray] field to view options.
- 2 Highlight another setting, then click OK.
- Manual Feed enables you to stack 20 lb bond paper in the bypass tray for back cover insertion.
- Manual Feed (Thick) enables you to manually feed up to 32 lb bond back covers from the bypass.
- Tray 1 enables you to feed 20 lb paper from Tray 1 for back cover insertion.

PostScript Driver Screens for Windows 95

Device Options Tab



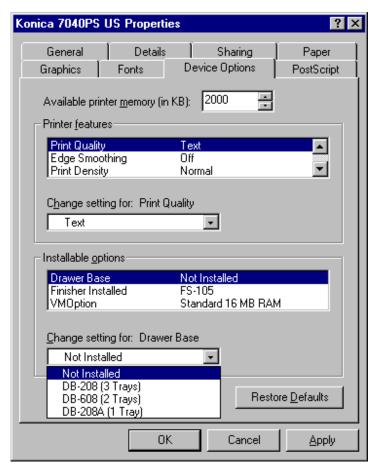
Printer Features - Output Order

The default setting for Output Order is Face Down. To change the default setting:

- 1 Use the arrow in the [Change setting for: Output Order] field to view options. 2 Highlight Face Up, then click OK.
- Use Face Down to output the job face down and in proper order.
- Use Face Up to output the job face up without sequential order.

PostScript Driver Screens for Windows 95

Device Options Tab



Installable Options - Drawer Base

The Device Options screen displays a list of Installable options. When Drawer Base is highlight in the Installable options field, the current setting displays. This screen shows that a Drawer Base is Not Installed.

- 1 Click the arrow in the [Change Setting for: Drawer Base] field to view option settings.
- 2 Highlight DB-208, DB-608, or DB-208A, as desired, then click OK.

To leave the setting unchanged and exit from the screen, click Cancel.

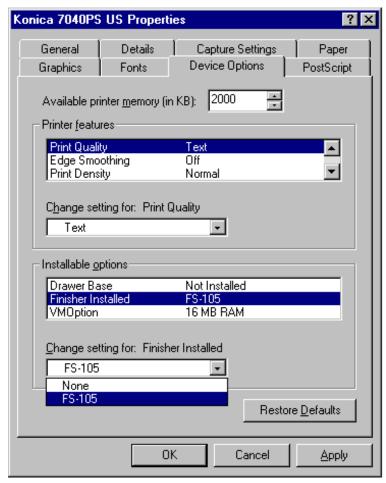
To resume the default setting, click Restore Defaults.

Note: Refer to the main body User's Manual for Drawer Base specifications.

3-66 Printer Driver Screens

PostScript Driver Screens for Windows 95

Device Options Tab



Installable Options - Finisher

The Device Options screen displays a list of Installable options. When Finisher Installed is highlighted in the Installable options field, the current setting displays. This screen shows that the FS-105 finisher is installed.

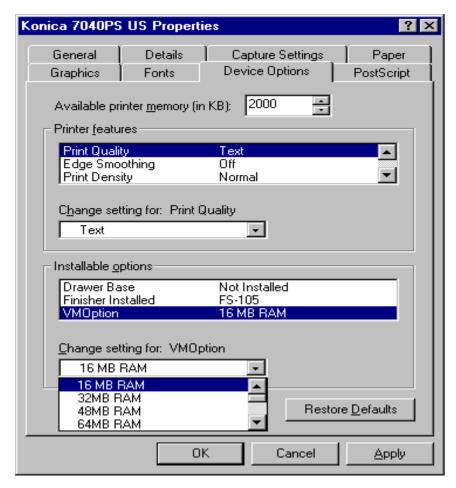
- 1 Click the arrow in the [Change Setting for: Finisher Installed] field to view the option settings.
- 2 Highlight the desired setting, then click OK.

To leave the setting unchanged and exit from the screen, click Cancel.

To resume the default setting, click Restore Defaults.

PostScript Driver Screens for Windows 95

Device Options Tab



Installable Options - VMOption (Virtual Memory)

The Device Options screen displays a list of Installable options. When VMOption is highlighted in the Installable options field, the current setting displays. This screen shows that 16 MB RAM is installed.

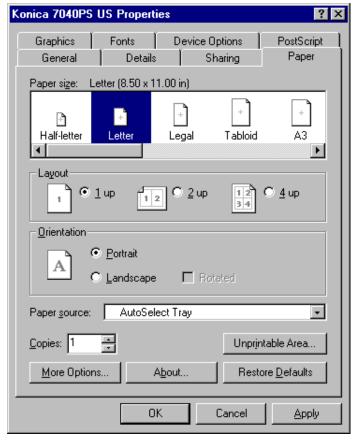
- 1 Click the arrow in the [Change setting for: VMOption] field to view option settings.
- 2 Highlight 32 MB, 48 MB or 64 MB, as desired, then click OK.

To leave the setting unchanged and exit from the screen, click Cancel.

To resume the default settings, click Restore Defaults.

PostScript Driver Screens for Windows 95

Paper Tab



Paper Size

When you click the Paper tab, the above screen displays the current settings for Paper Size, Layout, Orientation, Paper Source, and a setting for the number of Copies.

The default Paper Size setting is Letter.

- 1 To change the setting, highlight the desired paper size.
- 2 Click OK.

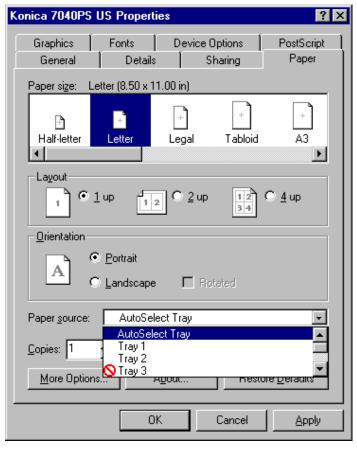
To leave the setting unchanged, click Cancel.

To resume the default setting, click Restore Defaults.

To view other Paper settings, click on More Options and refer to the following pages.

PostScript Driver Screens for Windows 95

Paper Tab



Paper Source

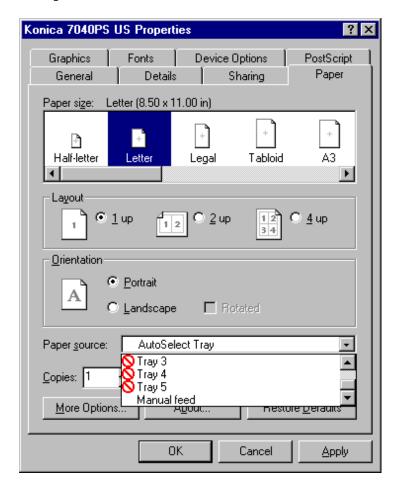
The default setting for Paper Source is AutoSelect Tray, which means the printer will use the appropriate tray for the selected paper size. I you wish to leave the current setting unchanged, click Cancel. If you wish to specify a paper tray, keep in mind that the system will look for the selected paper size in that tray but it will not look for the paper in another tray, even if another tray contains that paper size.

- 1 To specify a tray, click the arrow in the [Paper source] field to view setting options.
- 2 Highlight a specific tray source, as desired, then click OK.

Note: Trays indicated by \otimes are unavailable due to a conflict with another setting. If you select an unavailable tray, a dialog box will display to describe the conflict and provide you with an opportunity to change the incompatible setting.

PostScript Driver Screens for Windows 95

Paper Tab



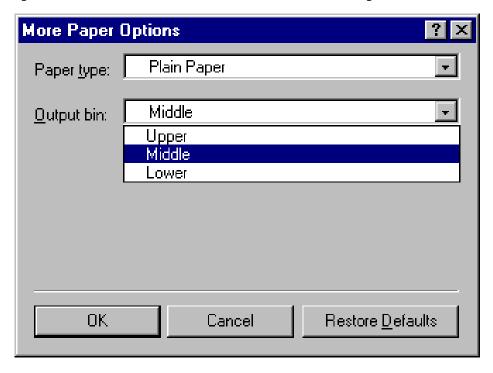
Specifying Manual Tray

- 1 To specify the Manual feed tray, click the arrow in the [Paper source] field to view options.
- 2 Highlight Manual Feed, then click OK.

When the job is completed, the default setting (AutoSelect tray) will be resumed.

PostScript Driver Screens for Windows 95

Paper Tab



More Options Screen - Output bin

Click on the More Options button to display current settings for Paper type and Output bin.

The default setting for Output bin is the Middle Bin.

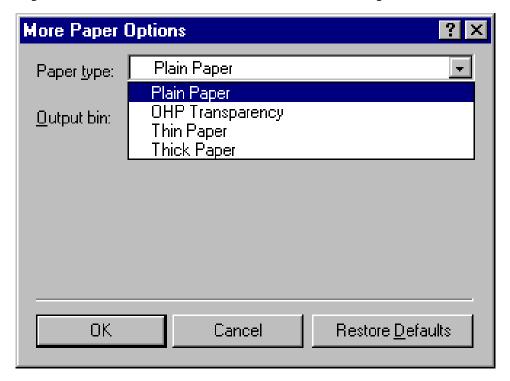
- 1 Click on the arrow next to the Output bin setting to view other options.
- 2 Highlight another setting, then click OK.

The job will be output to the selected bin.

When the job is completed, the default bin (Middle) will be resumed.

PostScript Driver Screens for Windows 95

Paper Tab



More Options Screen - Paper type

The above screen indicates the current setting for Paper type. The default setting is Plain Paper.

- 1 Click the arrow next to the current Paper type setting to view other options.
- 2 Highlight the desired paper type setting, then click OK.

Be sure the paper you select is loaded in the appropriate tray.

When the job is completed, the default Paper type setting for Plain Paper will be resumed.

PostScript Driver Screens for Windows 95

Konica 7040PS US Properties ? × Details Graphics Fonts Device Options PostScript PostScript gutput format PostScript (optimize for speed) PostScript beader Download header with each print job Assume header is downloaded and setained Send Header Now Print PostScript error information PostScript timeout values Job timeout: Wait timeout: Adyanced. Restore Defaults

PostScript Tab

PostScript Output Format

1 Click the PostScript tab to display the PostScript settings screen shown above.

0K

The sample screen shows the PostScript Output format setting is *Postscript [optimize for speed]*. (See details on next page.) Other settings include PostScript header information, which downloads a header with each job; Print PostScript error information, Job timeout, and Wait timeout.

Apply

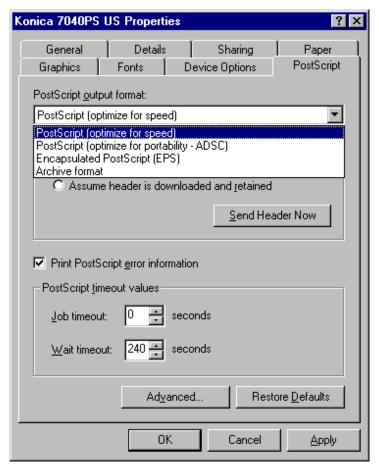
Note: Before changing the default settings for Job timeout and Wait timeout, be sure you understand the effect of the change.

2 When all settings are as desired, click OK.

To resume the default settings, click Restore Defaults. To leave settings unchanged, click Cancel.

PostScript Driver Screens for Windows 95

PostScript Tab



Changing PostScript output format

The default setting is PostScript [optimize for speed]. To change this setting:

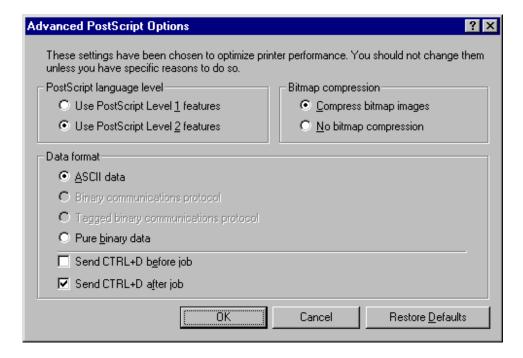
- 1 Click the arrow next to the setting to view options.
- 2 Select the desired setting, then click OK.

To exit the screen without making any changes, click Cancel.

To resume default settings, click Restore Defaults.

PostScript Driver Screens for Windows 95

PostScript Tab



Advanced PostScript Options

The above screen displays when you click the Advanced button on the PostScript settings screen.

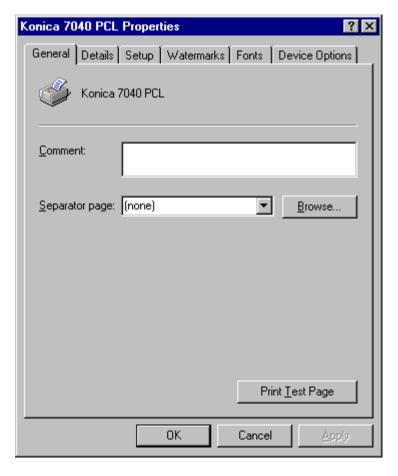
As the screen indicates, "These settings have been chosen to optimize printer performance. You should not change them unless you have specific reasons to do so."

Therefore, make necessary changes only if you fully understand the effects of the change.



PCL Driver Screens for Windows 95

General Tab



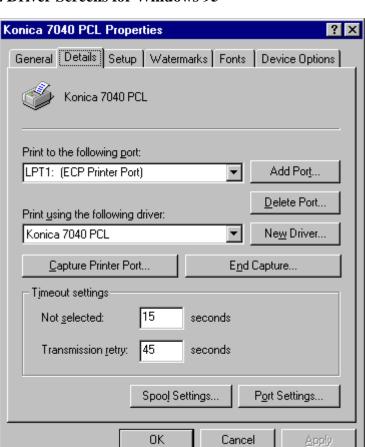
General Screen

The General screen identifies the name of your printer and provides a Comment field in which you may key in a specific request. The information you request will be displayed on the screen. This screen also displays tabs for all available properties settings for the PCL Driver.

Just click the tab topic you require and the appropriate screen will be displayed. See screens starting on next page.

Should you decide not to go further with any selection, click the Cancel button at the bottom of the screen.

PCL Driver Screens for Windows 95



Details Screen

The Details tab brings you to a screen that shows the current Port setting in the [*Print to the following port*] field. The default setting is LPT1, as shown. To change this setting, click the arrow next to the setting to view options, then highlight another Port setting, as required.

The Printer Driver in use is indicated in the [*Print using the following driver:*] field. The Konica 7040 PCL driver is shown on this screen as the current driver. To change this setting, click the arrow next to the setting to view driver options, then highlight another driver, as required.

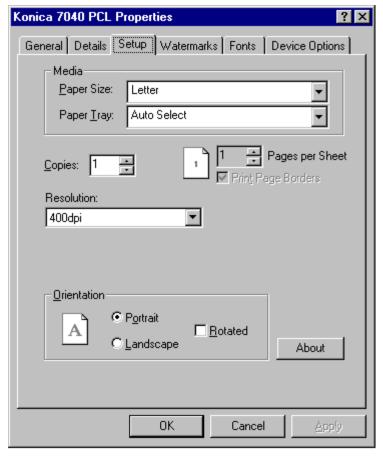
This screen also lets you to change the Timeout settings for capturing files for printing. To print very large files, you may need to adjust this time-out setting. In most cases, however, you will not need to change this setting.

Details Tab

Printer Drivers 3-79

PCL Driver Screens for Windows 95

Setup Screen



Setup Screen

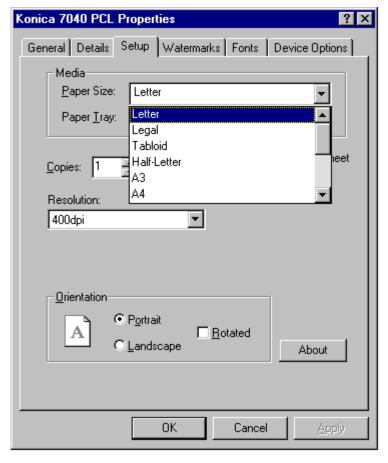
The Setup screen displays the following default settings:

Paper Size: LetterPaper Tray: Auto SelectResolution: 400dpiOrientation: Portrait

To view or change the Paper Size, click the arrow next to the current setting. See next page. To leave the settings unchanged, click Cancel.

PCL Driver Screens for Windows 95

Setup Screen



Paper Size

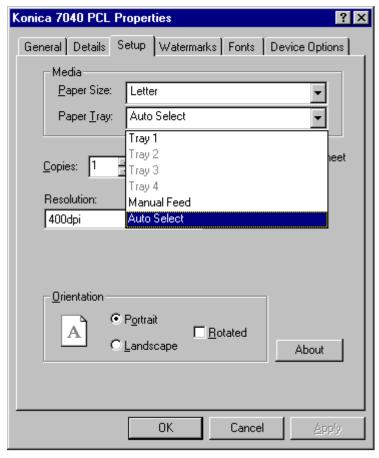
The default paper size is Letter size.

- 1 Click the arrow to scroll through the available paper size options.
- 2 To select another paper size, double click on the desired size, then click OK.

To leave the setting unchanged, click Cancel.

PCL Driver Screens for Windows 95

Setup Screen



Paper Tray Setting

The default setting for Paper Tray is Auto Select, which enables the printer to automatically select an appropriate tray for the paper type you select. If desired, you may turn off Auto Select, and specify a tray.

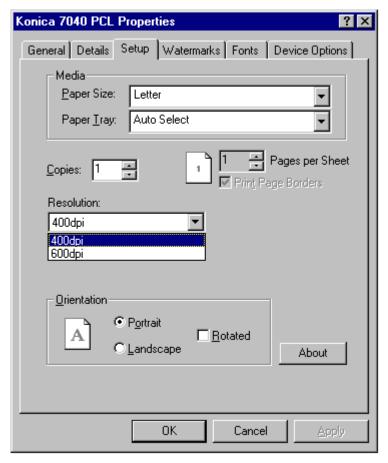
- 1 To specify a tray, click the arrow next to Paper Tray to view tray options.
- 2 Highlight the tray you want to use, then click OK.

When you specify a tray, be sure to load the tray with the appropriate paper. Keep in mind that if the tray you specify is empty, the printer will not look for another tray, even if the selected paper size is loaded in a tray. This is a safeguard to prevent the wrong paper type from being used for a job.

To leave the Auto Select tray setting unchanged, click Cancel.

PCL Driver Screens for Windows 95

Setup Screen



Resolution

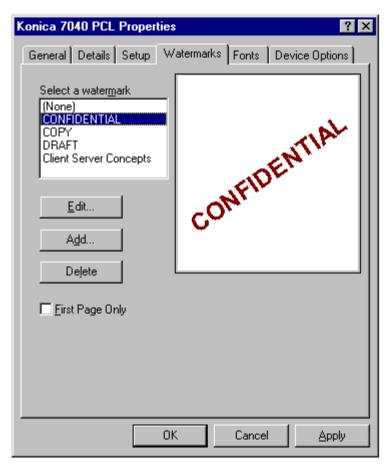
The current setting for Resolution is indicated on the Setup screen. The default setting is 400 dpi.

- 1 To change the setting indicated, click the arrow under Resolution to display another setting.
- 2 Highlight **600dpi**, then click OK.

To leave the setting unchanged, click Cancel.

PCL Driver Screens for Windows 95

Watermarks



Selecting a Watermark

Click on the Watermarks tab to display the screen shown above. From this screen, you may Select, Edit, Add, or Delete a Watermark.

To Select a Watermark, highlight it, then click OK.

To Edit a Watermark, highlight it, then click Edit and use the procedure shown on the next page.

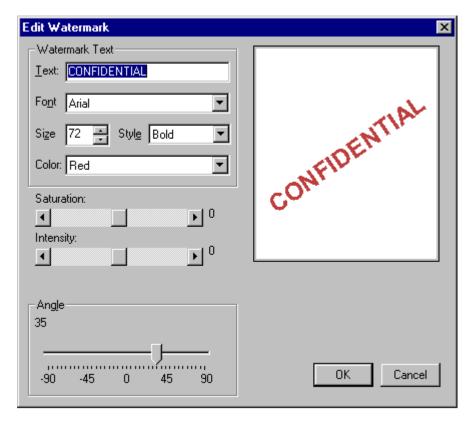
To Add a Watermark, click Add and follow the procedure on p. 3-86.

To Delete a Watermark, highlight it, click delete, then click OK.

To leave settings unchanged, click Cancel

PCL Driver Screens for Windows 95

Edit Watermark



Edit Watermark

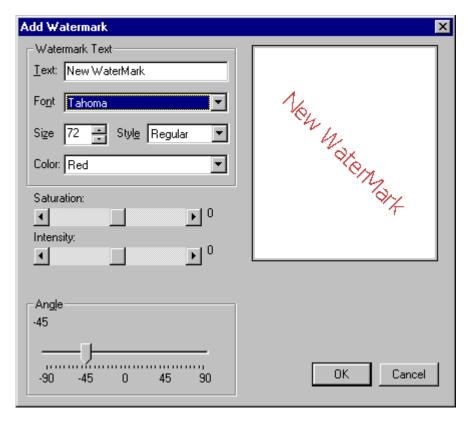
Click the Edit button (see previous page) for the selected Watermark to display the screen shown above. You may edit the Font type, Size, Style, Color, Saturation, Intensity and Angle.

- 1 Be sure the Watermark you want to edit is indicated in the Text field above.
- 2 Click the arrow of the attribute you want to change.
- 3 View the option settings, then highlight the new setting.
- 4 When all changes are indicated, click OK to make the edits effective.

To leave the settings unchanged, click Cancel.

PCL Driver Screens for Windows 95

Add Watermark



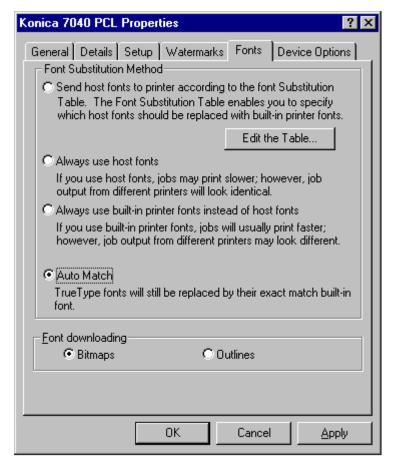
Add Watermark

- 1 To add a Watermark, click Add on the Watermarks screen on p. 3-84.
- 2 In the Text field, enter the wording for the new Watermark.
- 3 Select the Font, Size, Style Color, Saturation, Intensity and the Angle, as desired.
- 4 When all settings are completed, click OK.

To leave the settings unchanged and exit from this screen, click Cancel.

PCL Driver Screens for Windows 95





Fonts Screen

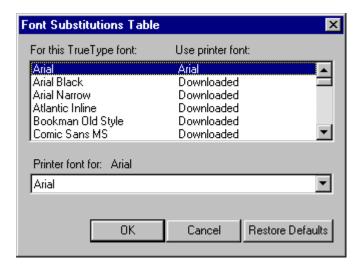
The Fonts tab displays the current font settings, as shown in the above screen.

The default setting is Auto Match, which means that TrueType fonts will be exactly matched by the fonts built into your printer. Compared to downloaded fonts, built-in printer fonts allow for speedier printing. Before changing the default setting, be sure you understand how it will affect printing performance.

To view or change Auto Match fonts, click Edit the Table to display the Font Substitution Table (see next page.)

PCL Driver Screens for Windows 95

Font Substitutions Table



Font Substitutions Table

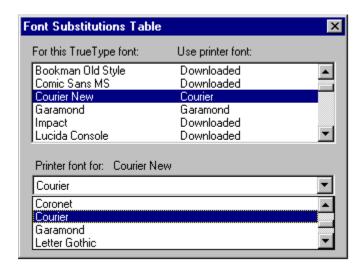
The Font Substitutions Table enables you to specify which fonts are to be used by your printer for any given TrueType font. Keep in mind that fonts already built in to your printer enable you to print faster than fonts that need to be downloaded to your printer.

This sample screen indicates that an exact-match built-in printer font is used for the TrueType Arial font.

Use the arrows to scroll through the font list to see how they are currently specified. You may substitute any font for a TrueType font. (See next page).

PCL Driver Screens for Windows 95

Font Substitutions Table



Editing the Font Substitution Table

This sample screen shows that the exact-match Courier built-in printer font is used for the Courier New TrueType font.

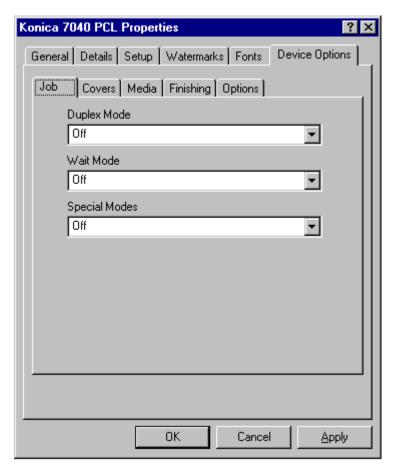
- 1 To edit the table, highlight a TrueType font.

 Notice that the current substitution for that font is displayed in the lower part of the screen, in the [Printer font for:] field.
- 2 Click the arrow in the [Printer font for:] field to view other font substitutions.
- 3 Highlight the desired font substitution, then click OK.

To leave the setting unchanged and exit from this screen, click Cancel.

PCL Driver Screens for Windows 95

Job Tab



Job Settings Screen

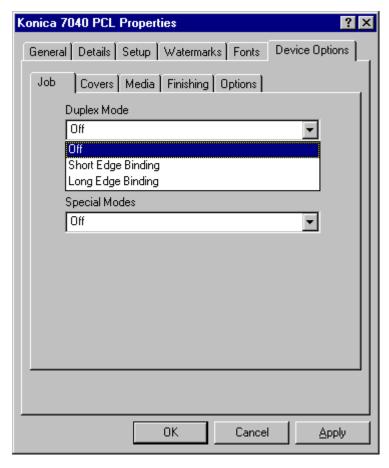
The Job settings screen displays current job settings.

In the above screen, default settings for Duplex Mode, Wait Mode and Special Modes are indicated as Off.

To change these settings, click the arrow next to each mode to view setting options and follow instructions starting on the next page.

PCL Driver Screens for Windows 95

Duplex Mode



Duplex Mode

1 Click the Duplex Mode arrow to view setting options.

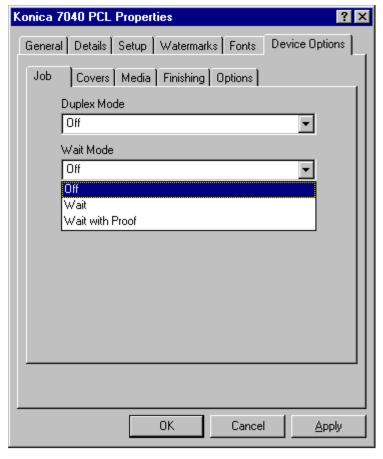
- Select Short Edge Binding to bind the document along the short edge for landscape orientation.
- Select Long Edge Binding to bind the document along the long edge for portrait orientation.

2 When the binding style you want is indicated in the Duplex Mode field, click OK.

To leave the Duplex Mode setting unchanged, click Cancel.

PCL Driver Screens for Windows 95

Wait Mode



Wait Mode

1 Click the Wait Mode arrow to view setting options.

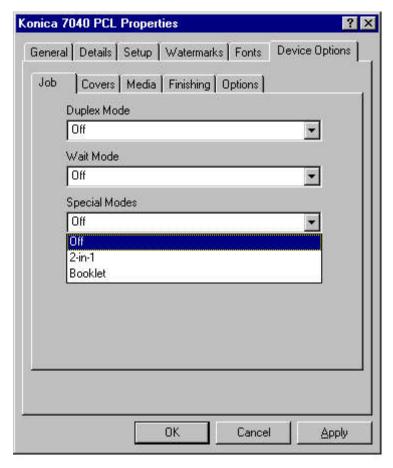
- Select Wait On to be prompted to install special paper, such as OHP, Thin stock or Thick stock before printing.
- Select Wait with Proof to be prompted to print a proof set before printing multiple sets.

2 When the setting you want is indicated in the Wait Mode field, click OK.

To leave the Wait Mode setting unchanged, click Cancel.

PCL Driver Screens for Windows 95

Special Modes



Special Modes

1 Click the Special Modes arrow to view setting options.

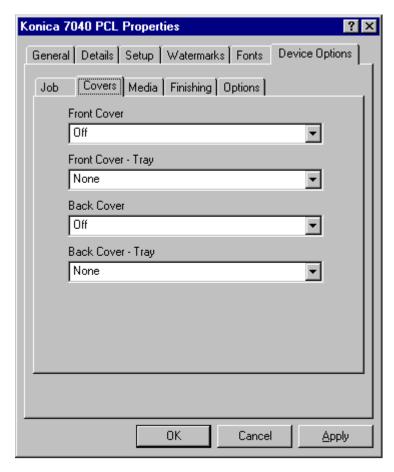
- Select 2-in-1 to print two pages (images) on one standard sheet.
- Select Booklet to print four pages (images) on one standard sheet.

2 When the setting you want is indicated in the Special Modes field, click OK.

To leave the Special Modes settings unchanged, click cancel.

PCL Driver Screens for Windows 95

Covers Tab



Covers Setting Screen

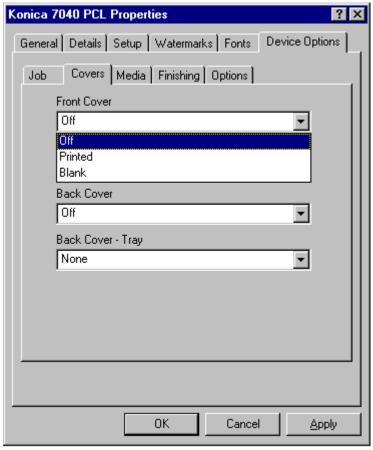
The Covers tab displays the above screen that shows the default settings for Front Cover, Front Cover Tray, Back Cover mode and Back Cover Tray.

To view or change these settings, click the arrow next to the settings and follow instructions starting on the next page.

To leave Cover settings unchanged, click Cancel.

PCL Driver Screens for Windows 95

Front Covers



Front Cover Mode

The Front Cover mode is Off by default. To change this setting:

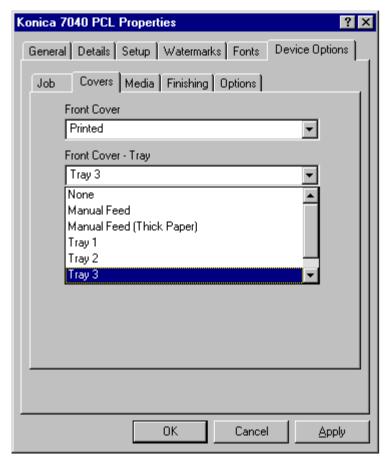
- 1 Click the arrow next to the Front Cover field to view option settings.
- Select Printed to print on the Front Cover sheets before inserting them into your document.
- Select Blank to insert Front Cover sheets into your document without printing them first. Front Cover sheets can be plain, colored or preprinted.
- 2 When the desired setting is indicated, click OK.

To leave the Front Cover mode setting unchanged, click Cancel.

Printer Drivers 3-95

PCL Driver Screens for Windows 95

Front Covers



Front Cover Tray

The Front Cover Tray is set at None by default. To change this setting:

- 1 Click on the arrow next to the Front Cover Tray field to view tray options.
- 2 Highlight the tray you want to use for Front Covers, then click OK.

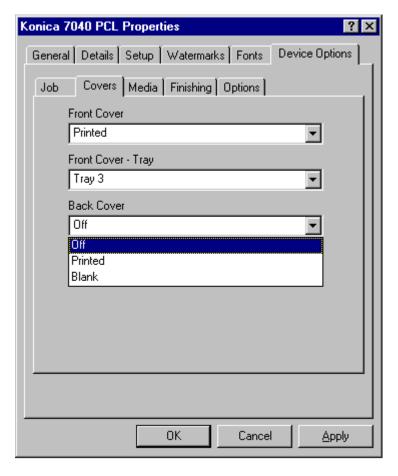
In this example, Tray 1 is selected.

If you are using colored or preprinted paper for the Front Covers, be sure to load the paper in the tray selected for Front Covers, otherwise the paper currently loaded in that tray will be used.

To leave the settings unchanged, click Cancel.

PCL Driver Screens for Windows 95

Back Covers



Back Cover Mode

The Back Cover mode is Off by default. To change this setting:

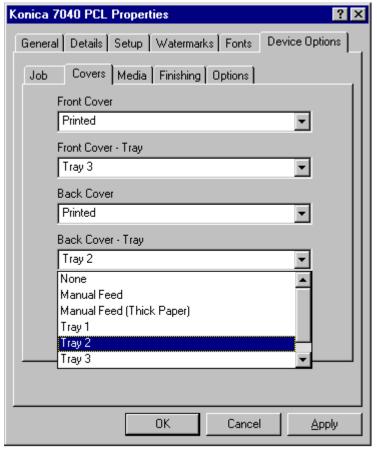
1 Click the arrow next to the Back Cover field to view options.

- Select Printed to print on the Back Cover sheets before inserting them into your document.
- Select Blank to insert the Back Cover sheets into your document without printing them first. Back Cover sheets can be plain, colored or preprinted.

To leave the Back Cover mode setting unchanged, click Cancel.

PCL Driver Screens for Windows 95

Back Covers



Back Cover Trav

The Back Cover Tray is set at None by default. To change this setting:

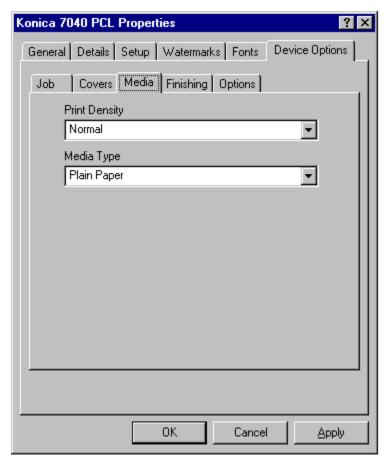
- 1 Click the arrow next to the Back Cover Tray field to view tray options.
- 2 Highlight the tray you want to use for the Back Covers, then click OK. In this example, Tray 2 is selected.

If you are using colored or preprinted paper for the Back Covers, be sure to load the paper in the tray selected, otherwise the paper currently loaded will be used.

To leave the Back Cover Tray setting unchanged, click Cancel.

PCL Driver Screens for Windows 95

Media Tab



Media Settings Screen

When you click on the Media tab, current settings are displayed for Print Density and Media Type.

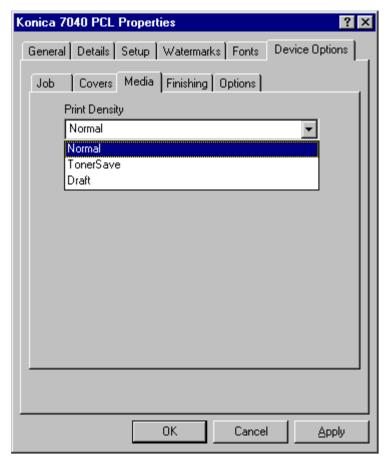
This screen shows that Normal is selected for Print Density and Plain Paper is selected for Media Type.

To change either of these settings, click the arrow next to the current setting to display options, highlight the setting you want, then click OK and follow instructions starting on the next page.

To leave the Media settings unchanged, click Cancel.

PCL Driver Screens for Windows 95

Media



Print Density

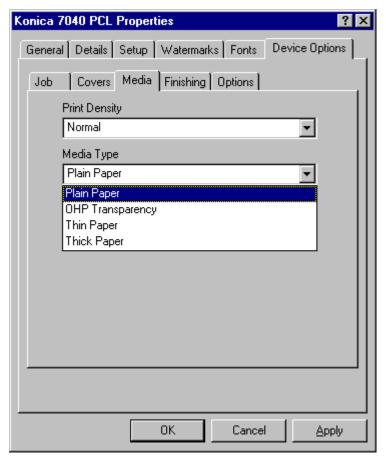
The default setting for Print Density is Normal. To change this setting:

- 1 Click the arrow in the Print Density field to view options.
- Select the Toner Save mode to use only 80% of the toner normally used.
- Select Draft mode to use only 60% of the toner normally used.
- 2 Highlight the desired setting, then click OK.

To leave the Print Density setting unchanged, click Cancel

PCL Driver Screens for Windows 95

Media



Media Type

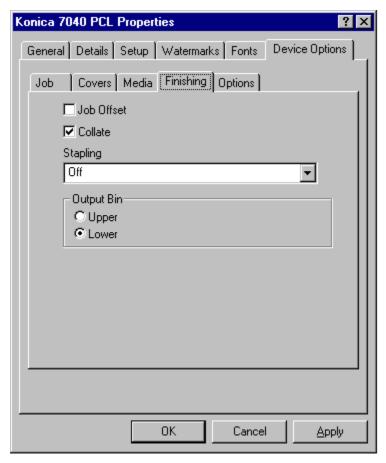
The default setting for Media Type is Plain Paper. To change this setting:

- 1 Click on the arrow in the Media Type field to view options (OHP Transparency, Thin or Thick Paper).
- 2 Highlight the desired Media Type setting. This screen shows OHP Transparency is selected.
- 3 Click OK to complete the selection. Feed special stock through the Bypass tray.

To leave the Media Type setting unchanged, click Cancel.

PCL Driver Screens for Windows 95

Finishing Tab



Finishing Settings Screen

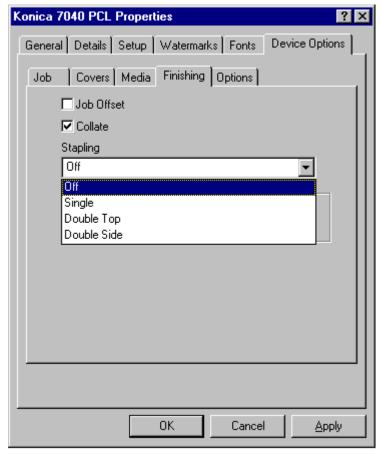
The Finishing screen shows the default settings for Collate, Stapling and Output Bin.

Click the arrow next to the Stapling setting to display optional Stapling settings and follow instructions on the next page.

To leave the Finishing Settings unchanged, click Cancel.

PCL Driver Screens for Windows 95

Finishing



Stapling

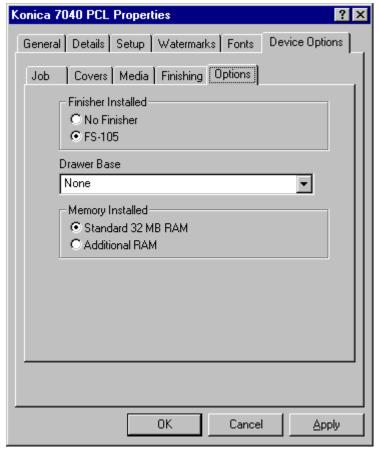
The default setting for Stapling is Off. To change this setting:

- 1 Click the arrow in the Stapling field to view options. Three Stapling options are available.
- Single stapling inserts one staple in the upper left corner of your document.
- Double Top stapling inserts two staples across the top edge of your document.
- Double Side stapling inserts two staples along the left edge of your document.
- 2 Highlight the desired Stapling setting, then click OK.

To leave the Stapling setting unchanged, click Cancel.

PCL Driver Screens for Windows 95

Options (Device)



Device Settings

The Options screen shows the current settings for Finisher, Drawer Base and Memory Installed.

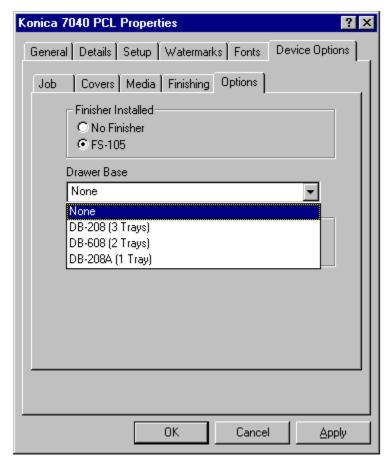
This sample screen shows that the FS-105 Finisher is installed, the Drawer Base setting is None, and the installed Memory is 32 MB RAM.

To change the current Drawer Base setting, click on the arrow next to Drawer Base to view options and follow instructions on the next page.

To leave the Device settings unchanged, click Cancel.

PCL Driver Screens for Windows 95

Options (Device)



Drawer Base Setting

The default setting for Drawer Base is None. To change this setting:

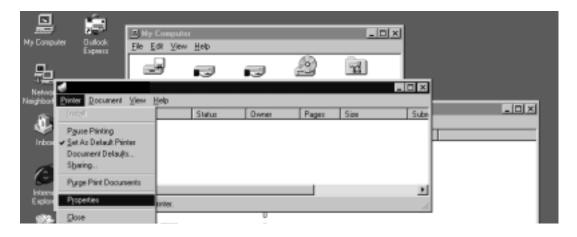
- 1 Click the arrow in the Drawer Base field to view options.
- 2 Highlight the desired Drawer Base setting, then click OK.

To leave the Drawer Base setting unchanged, click Cancel.



PS Driver Screens for Windows NT

Selecting Printer



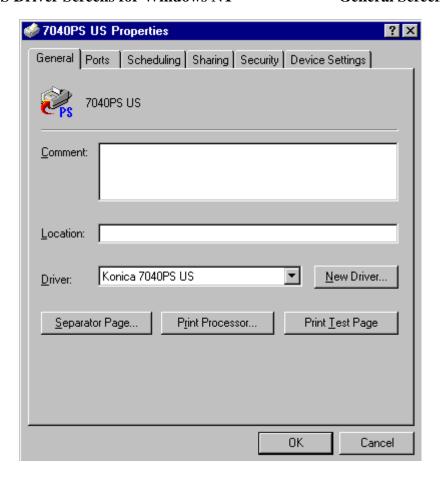
Printer Menu

When you select Printer from the Printer menu, a sub-screen displays as shown above.

This screen allows you to select Properties, which displays a General screen for choosing device settings for installed options. Highlight Properties and follow instructions starting on the next page.

PS Driver Screens for Windows NT

General Screen



General Screen

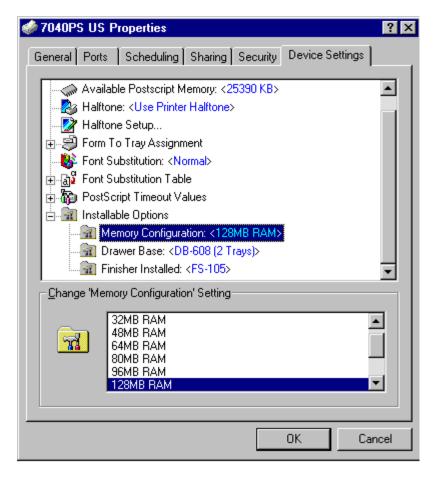
The General screen identifies the name of your printer and provides a Comment field in which you may key in a specific request. The information you request will be displayed on the screen. This screen also displays tabs for all available properties settings for the PS Driver.

Just click the tab topic you require and the appropriate screen will be displayed. Should you decide not to go further with any selection, click the Cancel button at the bottom of the screen.

To view or change the Device Settings, click on the tab and follow instructions starting on the next page.

PS Driver Screens for Windows NT

Device Settings



Installable Options - Memory Configuration

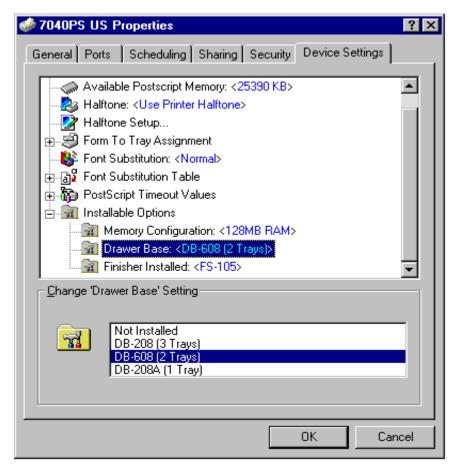
The Device Settings tab brings you to the Device Settings screen shown above.

- 1 Click Installable Options to display a list of installable options, e.g., Memory, Drawer Base and Finisher.
- 2 Highlight Memory Configuration to display the current Memory setting. This sample screen indicates that 128MB is the current setting. Optional settings are displayed in the lower portion of the screen as 32MB (default), 48MB, 64MB, 80MB or 128MB.
- 3 Highlight the desired Memory setting, then click OK.

To leave the current Memory setting unchanged, click Cancel.

PS Driver Screens for Windows NT

Device Settings



Installable Options - Drawer Base

- 1 To view the current Drawer Base setting, highlight Drawer Base in the Installable options field. This sample screen indicates that the DB-608 Drawer Base is installed. Notice that the [Change Setting for: Drawer Base] field displays the current setting and lists the available setting options.
- 2 To change the setting to DB-208 or DB-208A, simply highlight the setting, then click OK.

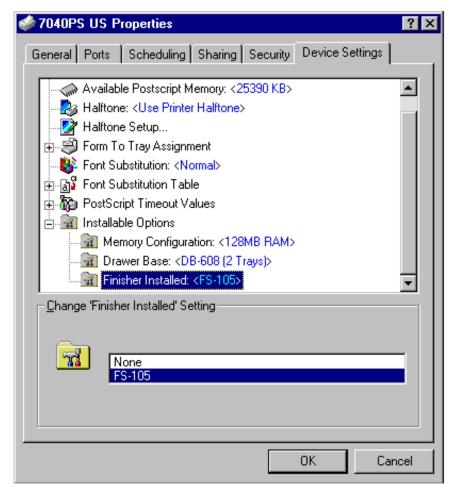
To leave the current Drawer Base setting unchanged, click Cancel.

To resume the default settings, click Restore Defaults.

Note: Refer to the main body User's Manual for Drawer Base specifications.

PS Driver Screens for Windows NT

Device Settings



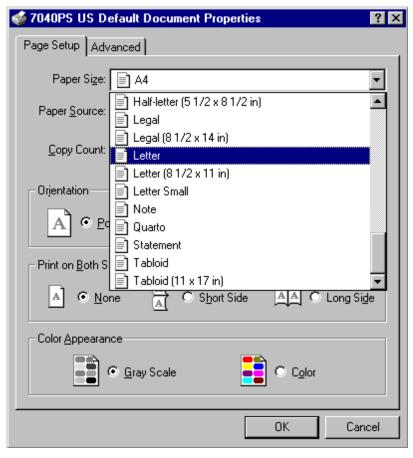
Installable Options - Finisher

- 1 Highlight Finisher Installed under Installable Options to display the current setting. This sample screen indicates that the FS-105 finisher is installed. Notice that the current setting is indicated in the [Change 'Finisher Installed' Setting] field along with setting options.
- 2 To change the current setting to None, highlight None, then click OK.

To leave the current Finisher setting unchanged, click Cancel.

PS Driver Screens for Windows NT

Document Defaults



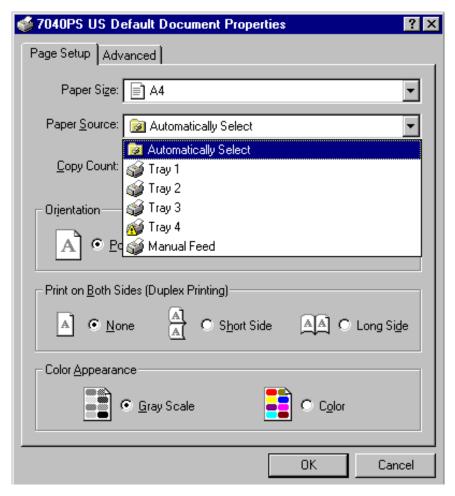
Page Setup Screen - Paper Size

- 1 Select Print from the application screen to display the Printer Menu screen, then select Document Defaults to display the Page Setup screen, shown above. The Page Setup screen enables you to view or change settings for Paper Size, Paper Source, Collate, Copy Count, Orientation, Duplex Printing, or Color Appearance (Gray Scale). This screen shows you how to set the Paper Size. See the following pages for other Page Setup settings.
- 2 The current Paper Size shown in the above example is Letter size, the default setting.
- 3 To change this setting choose the desired setting from the list, highlight the setting, then click OK.

To leave the current Paper Size setting unchanged, click Cancel.

PS Driver Screens for Windows NT

Document Defaults



Page Setup Screen - Paper Source

The default setting for Paper Source is *Automatically Selected*, as indicated in the above screen. This setting enables the printer to automatically select a tray that contains the selected paper size.

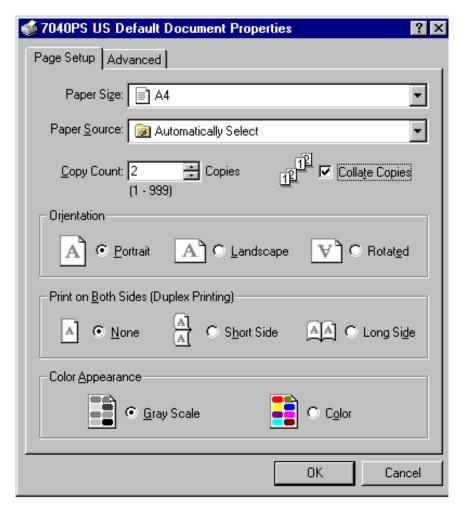
- 1 Use the arrow in the Paper Source field to view other settings.
- 2 To change the current setting and specify a tray, highlight the desired tray, then click OK.

NOTE: When a specific tray is selected, the printer will use only that tray. Be sure the tray contains the desired paper size. If the tray you specify is empty, the printer will not look for paper in another tray, even if another tray contains the desired paper size.

Printer Drivers 3-113

PS Driver Screens for Windows NT

Document Defaults



Page Setup Screen - Collate

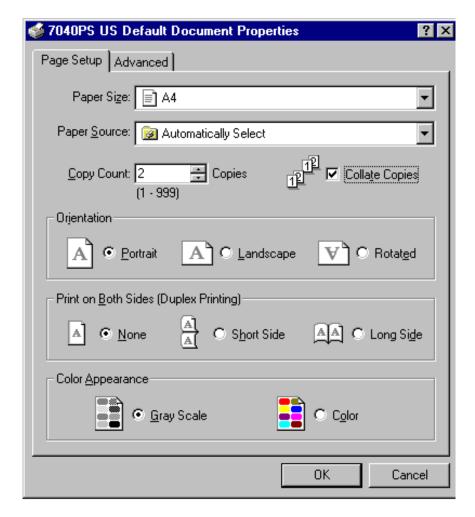
When checked, the Collate function enables you to print multiple sets of an original document and collate each set in the proper order. In the above screen, the Collate function is checked and [2] Copies are selected in the Copy Count field. The icon next to the Collate check shows the result to expect.

- 1 To turn off the Collate feature, click the Collate arrow to make it disappear from the box.
- 2 After making the desired change, click OK.

To leave the current Collate setting unchanged, click Cancel.

PS Driver Screens for Windows NT

Document Defaults



Page Setup Screen - Copy Count

The Copy Count setting enables you to select from 1-999 copies. To overcome the limit imposed by the maximum capacity of the output tray, remove the output pages before the tray limit is reached.

IF COLLATE IS CHECKED, the entire **original set** will be copied in the amount shown in *Copy Count*. IF COLLATE IS UNCHECKED, each **original page** will be copied in the amount shown in *Copy Count*.

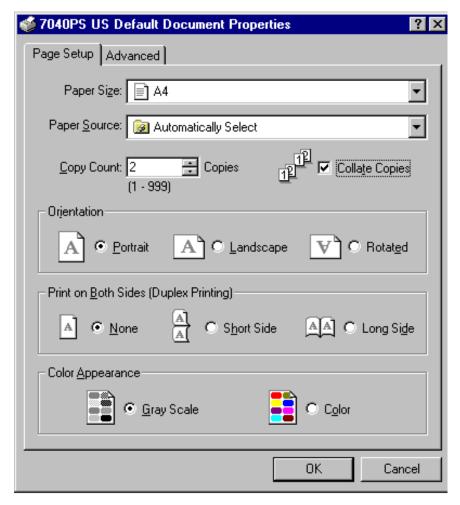
To use the new settings, click OK.

To leave the settings unchanged, click Cancel.

Printer Drivers 3-115

PS Driver Screens for Windows NT

Document Defaults



Page Setup Screen - Orientation (Portrait, Landscape, Rotated)

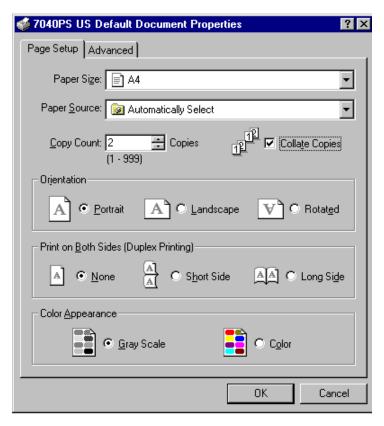
The Orientation setting enables you to output the image in either portrait or landscape style.

When landscape style is selected, you may also select Rotate to vertically flip the image from head to foot. The default setting indicated above shows Portrait orientation selected and Landscape and Rotated not selected.

To change the current setting, click on the desired setting, then click OK. To leave the current setting unchanged, click Cancel.

PS Driver Screens for Windows NT

Document Defaults



Page Setup - Duplex Printing (None, Short Side, Long Side)

When there is no black dot next to [None], Duplex Printing is on and printing will be performed on both sides of each sheet. When a black dot is visible next to [None], Duplex Printing is off and printing will be performed on one side of each sheet.

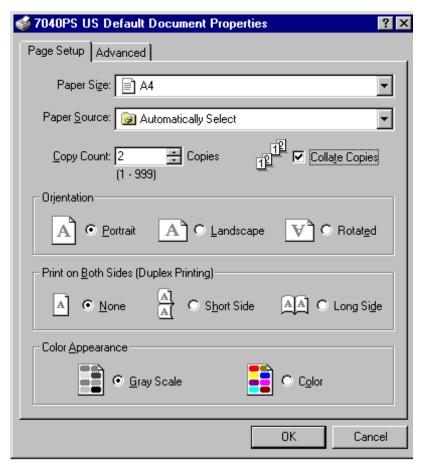
In the default setting, Duplex Printing is off, as shown by the visible black dot next to None.

- 1 To turn Duplex Printing on, click None so that no black dot is visible.
- 2 Select Short Side or Long Side. Icons next to these two modes depict the output result.
- With Short Side, output pages can be read by lifting each sheet from the bottom.
- With Long Side, output pages can be read by turning pages sideways, as in a book.

To leave the Duplex setting unchanged, click Cancel.

PS Driver Screens for Windows NT

Document Defaults



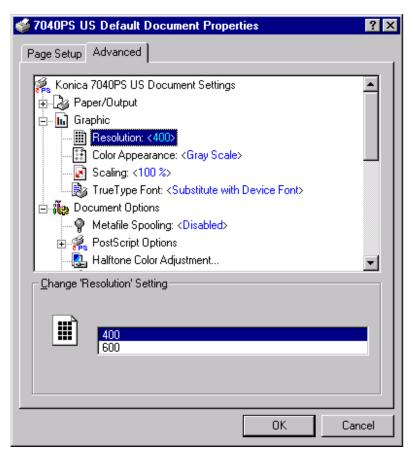
Page Setup - Color Appearance (Gray Scale)

By default, the Gray Scale setting is on, as indicated by the black dot next to the Gray Scale setting.

Since this printer is a black and white printer only, no other setting is available.

PS Driver Screens for Windows NT

Document Defaults



Advanced - Resolution (400 dpi/ 600 dpi)

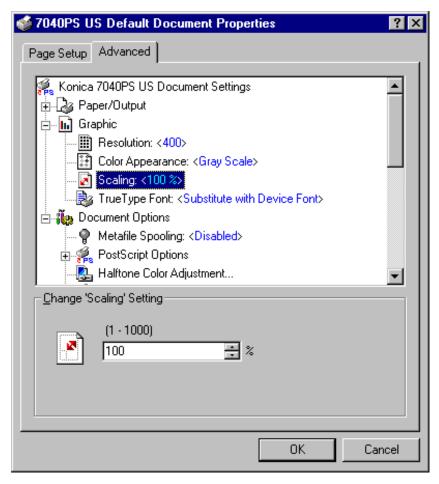
Select Advanced tab on the Page Setup screen to display the screen shown above. Resolution is listed under the Graphic heading.

The Resolution setting shown in the example is 400 dpi, which is the default setting for text mode. Notice that the current setting is indicated in the [Change 'Resolution' Setting] field along with the available option, 600 dpi.

To change the current Resolution setting, highlight the desired option, then click OK. To leave the current setting unchanged, click Cancel.

PS Driver Screens for Windows NT

Document Defaults



Advanced - Scaling

Highlight Scaling under the Graphic heading to view the current setting.

The default setting shown above is 100%, which means the printed image will be 100% of the original image size, i.e., no reduction, no enlargement. Notice that the current setting is reflected in the [Change 'Scaling' Setting] field.

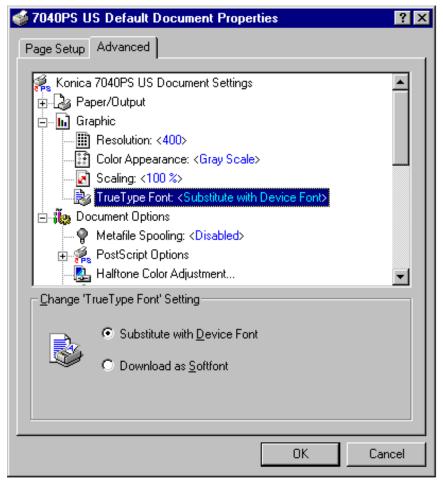
- 1 To change the current setting, use the arrow next to the percent sign to scroll to the desired setting.
- 2 When the setting you want is indicated, click OK.

To leave the current Scaling setting unchanged, click Cancel.

3-120 Printer Drivers

PS Driver Screens for Windows NT

Document Defaults



Advanced - TrueType Font

Highlight TrueType Font listed under the Graphic heading to display the current setting. In this example, the default setting, *Substitute with Device Font* is indicated.

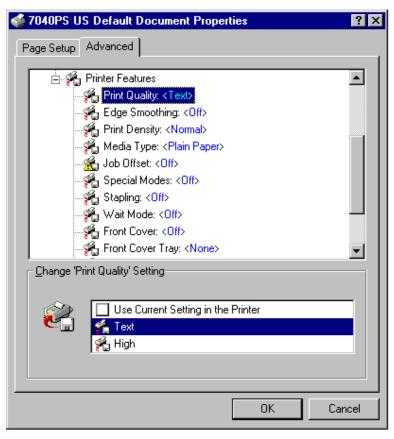
When *Substitute with Device Font* is selected, TrueType fonts will be replaced by their exact match built-in fonts, which usually print faster. Notice that the current setting is indicated in the [*Change TrueType Font' Setting*] field.

To change the current setting, click [Download as Softfont], then click OK. To leave the current TrueType Font setting unchanged, click Cancel.

Printer Drivers 3-121

PS Driver Screens for Windows NT

Document Defaults



Advanced - Printer Features (Print Quality)

Click on Printer Features to view the list, including Print Quality, Edge Smoothing, Print Density, Media Type, Job Offset, Special Modes, Stapling, Wait Mode, Front Cover, Front Cover Tray, Back Cover, Back Cover Tray, Output Bin, and Output Order. These features continue on the next page.

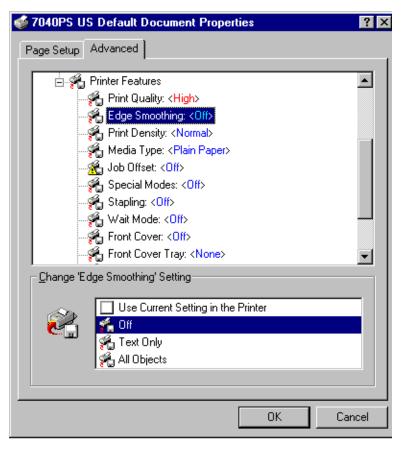
- 1 Highlight Print Quality to display the current setting. The default setting is <Text>.

 Notice that the setting is indicated in the [Change 'Print Quality' Setting] field along with options.
- 2 To change the current Print Quality setting, highlight the desired setting, then click OK.
- Use High mode for graphic images that require finer resolution.

To leave the current Print Quality setting unchanged, click Cancel.

PS Driver Screens for Windows NT

Document Defaults



Advanced - Printer Features (Edge Smoothing)

Highlight Edge Smoothing to display the current setting. Off is the default setting. Notice that the setting is indicated in the [Change 'Edge Smoothing' Setting] field along with options.

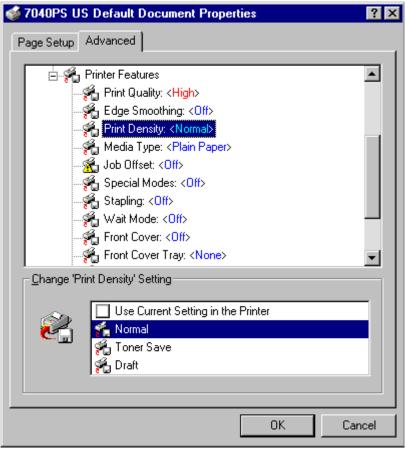
To change the current setting, highlight the desired option setting, then click OK.

Use Edge Smoothing for [Text Only] or [All Objects] to close up feathered edges and obtain a clearer printed image.

To leave the current Edge Smoothing setting unchanged, click Cancel.

PS Driver Screens for Windows NT

Document Defaults



Advanced - Printer Features (Print Density)

Highlight Print Density to display the current setting. Normal is the default setting. Notice that the setting is indicated in the [Change 'Print Density' Setting] field along with options.

1 To change the current Print Density setting, highlight the desired setting.

- Choose Toner Save to use 80% of the normal toner amount.
- Choose Draft to use 60% of the normal toner amount.

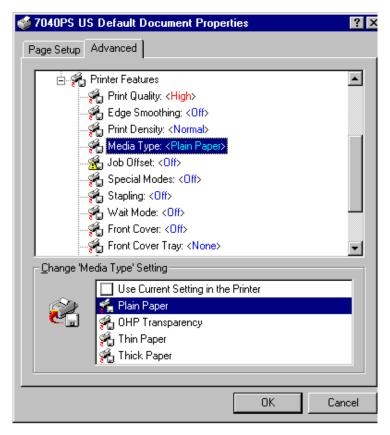
2 When the desired setting is indicated, click OK.

To leave the current Print Density setting unchanged, click Cancel.

3-124 Printer Drivers

PS Driver Screens for Windows NT

Document Defaults



Advanced - Printer Features (Media Type)

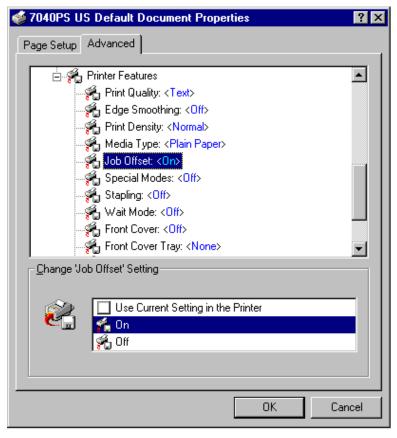
Highlight Media Type to display the current setting. Plain Paper is the default setting. Notice that the setting is indicated in the *Change 'Media Type' Setting* field along with options.

- 1 To change the current Media Type setting, highlight the desired setting.
- Use the manual Bypass tray for OHP Transparency, Thin Paper, or Thick Paper.
- 2 When the desired setting is indicated, click OK.

To leave the current Media Type setting unchanged, click Cancel.

PS Driver Screens for Windows NT

Document Defaults



Advanced - Printer Features (Job Offset)

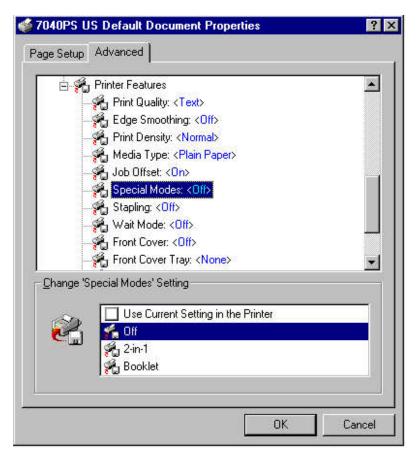
Highlight Job Offset to display the current setting. On is the default setting. Notice that the setting is indicated in the [Change 'Job Offset' Setting] field along with options.

- 1 To change the current setting, highlight the desired setting.
- Choose Job Offset <Off> when the output pages do not need to be separated as sets.
- 2 When the desired setting is indicated, click OK.

To leave the current Job Offset setting unchanged, click Cancel.

PS Driver Screens for Windows NT

Document Defaults



Advanced - Printer Features (Special Modes)

Highlight Special Modes to display the current setting. Off is the default setting. Notice that the setting is indicated in the *Change 'Special Modes' Setting* field along with options.

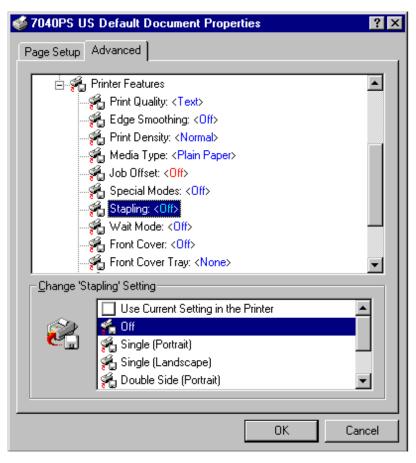
1 To change the Special Modes setting, highlight the desired setting.

- Choose 2-in-1 to print two pages (images) on one sheet.
- Choose Booklet mode to print 4 pages (images) on one sheet.
- 2 When the desired setting is indicated, click OK.

To leave the current Special Modes setting unchanged, click Cancel.

PS Driver Screens for Windows NT

Document Defaults



Advanced - Printer Features (Stapling)

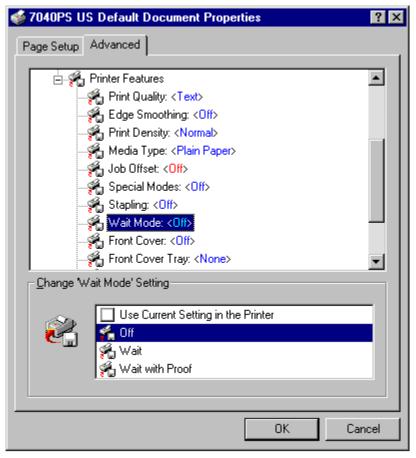
Highlight Stapling to display the current setting. Off is the default setting. Notice that the setting is indicated in the [Change 'Stapling' Setting] field along with options.

- 1 To change the current setting, highlight the desired setting.
- Choose Single [Portrait], Single [Landscape], or Double Side [Portrait].
- 2 When the desired stapling setting is indicated, click OK.

To leave the current Stapling setting unchanged, click Cancel.

PS Driver Screens for Windows NT

Document Defaults



Advanced - Printer Features (Wait Mode)

Highlight Wait Mode to display the current setting. Off is the default setting. Notice that the setting is indicated in the *Change 'Wait Mode' Setting* field along with options.

1 To change the current setting, highlight the desired setting.

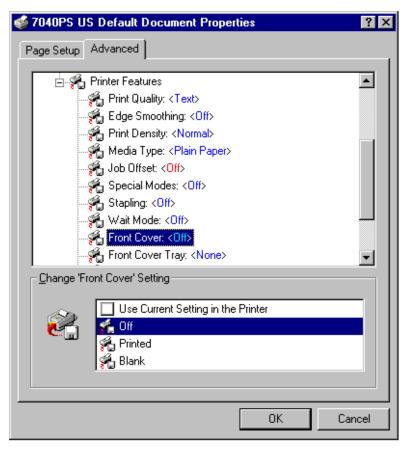
- Choose Wait to be prompted to install special paper, such as OHP or Thin or Thick Stock.
- Choose Wait with Proof to be prompted to print a proof set before printing multiple sets.
- 2 When the desired setting is indicated, click OK.

To leave the current Wait Mode setting unchanged, click Cancel.

Printer Drivers 3-129

PS Driver Screens for Windows NT

Document Defaults



Advanced - Printer Features (Front Cover)

Highlight Front Cover to display the current setting. Off is the default setting. Notice that the setting is indicated in the [Change 'Front Cover' Setting] field along with options.

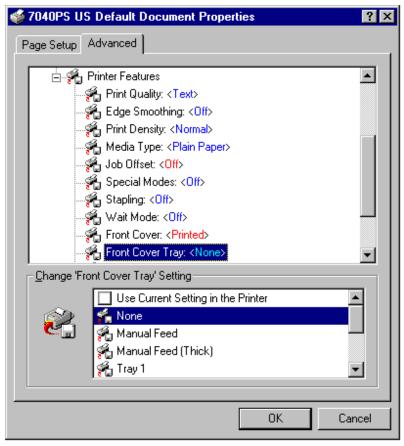
1 To change the current setting, highlight the desired setting.

- Choose Printed to copy the front cover sheet before inserting it.
- Choose Blank to insert the front cover sheet without copying it.
- 2 When the desired setting is indicated, click OK.

To leave the current Front Cover setting unchanged, click Cancel.

PS Driver Screens for Windows NT

Document Defaults



Advanced - Printer Features (Front Cover Tray)

Highlight Front Cover Tray to display the current setting. None is the default setting. Notice that the setting is indicated in the [Change 'Front Cover Tray' Setting] field along with options.

1 To change the current setting, highlight the desired setting.

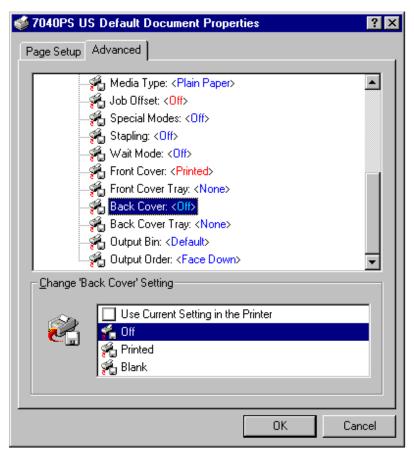
- Use Manual feed to stack 20 lb bond paper in the manuals bypass tray for front cover insertion.
- Use Manual Feed (Thick) to manually feed up to 32 lb bond front covers from the bypass tray. Tray 1 enables you to feed 20 lb paper from Tray 1 for front cover insertion.
- 2 When the desired setting is indicated, click OK.

To leave the current Front Cover Tray setting unchanged, click Cancel.

Printer Drivers 3-131

PS Driver Screens for Windows NT

Document Defaults



Advanced - Printer Features (Back Cover)

Highlight Back Cover to display the current setting. Off is the default setting. Notice that the setting is indicated in the [Change 'Back Cover' Setting] field along with options.

1 To change the current setting, highlight the desired setting.

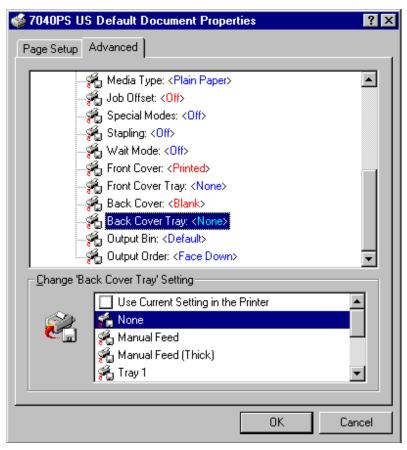
- Choose Printed to copy the back cover sheet before inserting it.
- Choose Blank to insert the back cover sheet without copying it.

2 When the desired setting is indicated, click OK.

To leave the current Back Cover setting unchanged, click Cancel.

PS Driver Screens for Windows NT

Document Defaults



Advanced - Printer Features (Back Cover Tray)

Highlight Back Cover Tray to display the current setting. None is the default setting. Notice that the setting is indicated in the *Change 'Back Cover Tray' Setting* field along with options.

1 To change the current setting, highlight the desired setting.

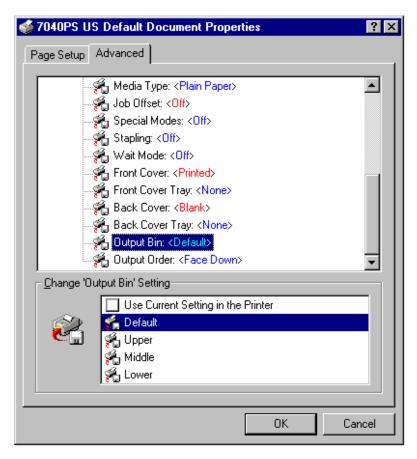
- Use Manual feed to stack 20 lb bond paper in the manuals bypass tray for back cover insertion. •
- Use Manual Feed (Thick) to manually feed up to 32 lb bond back covers from the bypass tray. Tray 1 enables you to feed 20 lb paper from Tray 1 for back cover insertion.
- 2 When the desired setting is indicated, click OK.

To leave the current Back Cover Tray setting unchanged, click Cancel.

Printer Drivers 3-133

PS Driver Screens for Windows NT

Document Defaults



Advanced - Printer Features (Output Bin)

Highlight Output Bin to display the current default setting. Output Bin describes which area of the finisher will be used as the output tray. This enables you to control a special or high volume job you may want to run from one tray source. The default setting uses any appropriate tray that is available.

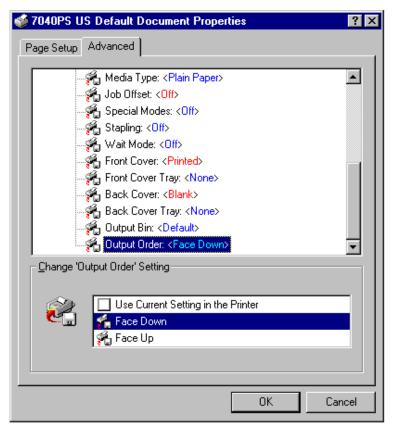
Notice that the current setting is indicated in the [Change 'Output Bin' Setting] field along with options.

To change the current setting, highlight the desired setting, then click OK.

To leave the current Output Bin setting unchanged, click Cancel.

PS Driver Screens for Windows NT

Document Defaults



Advanced - Printer Features (Output Order)

Highlight Output Order to display the current setting. Face Down is the default setting. Notice that the setting is indicated in the [*Change 'Output Order' Setting*] field along with options.

1 To change the current setting, highlight the desired setting

- Use Face Down mode when the sequential order of output pages is required.
- Use the speedier Face Up mode if sequential order of your document is not required.

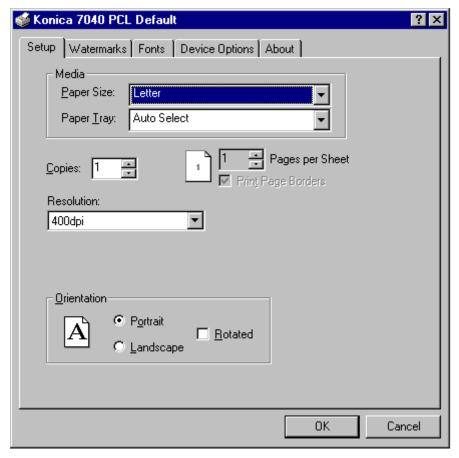
2 When the desired setting is indicated, click OK.

To leave the current Output Order setting unchanged, click Cancel.



PCL Driver Screens for Windows NT

Setup Tab



Setup Screen

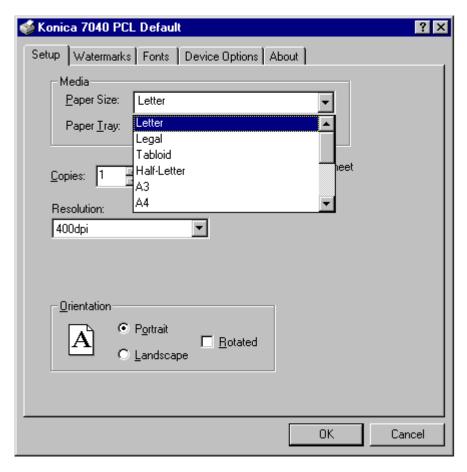
The Setup screen displays the following default settings:

Paper Size: LetterPaper Tray: Auto SelectResolution: 400dpiOrientation: Portrait

To view or change the Paper Size, click the arrow next to the current setting. See next page. To leave the settings unchanged, click Cancel.

PCL Driver Screens for Windows NT

Setup Screen



Paper Size

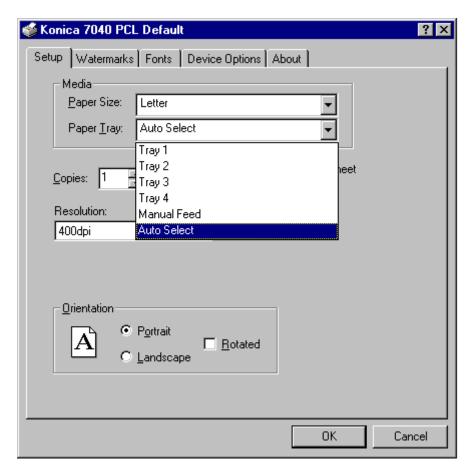
The default paper size is Letter size.

- 1 Click the arrow to scroll through the available paper size options.
- 2 To select a paper size, double click on the desired size, then click OK.

To leave the setting unchanged, click Cancel.

PCL Driver Screens for Windows NT

Setup Screen



Paper Tray Setting

The default setting is Auto Select, which enables the printer to automatically select the appropriate tray for the paper you select.

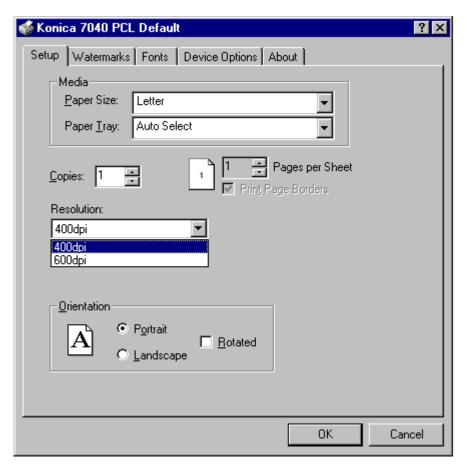
If you do not wish to use the Auto Select tray, click on the arrow to scroll through the available choices, then select the desired paper tray.

When a specific tray is selected, be sure to load it with the appropriate paper.

To leave the Auto Select tray setting unchanged, click Cancel.

PCL Driver Screens for Windows NT

Setup Screen



Resolution

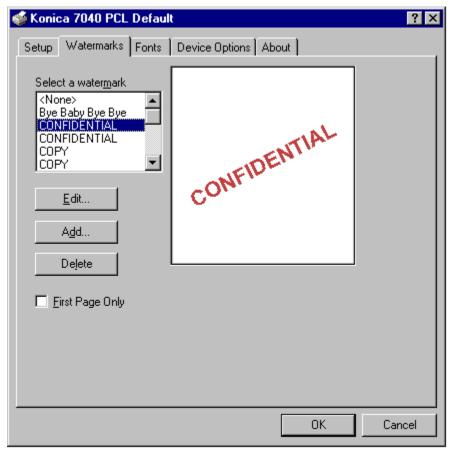
The current setting for Resolution is indicated. The default setting is 400 dpi.

- 1 To change the current setting, click on the arrow to display the available settings.
- 2 Highlight the desired setting, then click OK.

To leave the setting unchanged, click Cancel.

PCL Driver Screens for Windows NT

Watermarks Tab



Selecting a Watermark

Click on the Watermarks tab to display the screen shown above. From this screen, you may Select, Edit, Add, or Delete a Watermark.

To Select a Watermark, highlight it, then click OK.

To Edit a Watermark, highlight it, then click Edit and use the procedure shown on the next page.

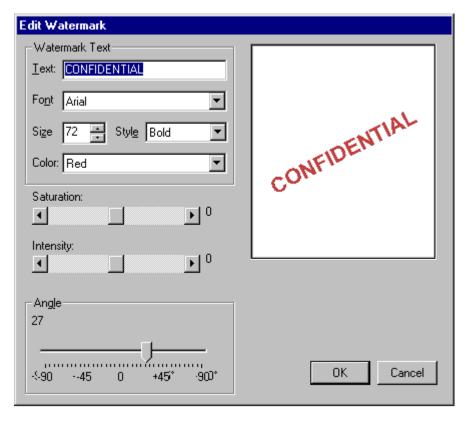
To Add a Watermark, click Add and follow the procedure on p. 3-143.

To Delete a Watermark, highlight it, click delete, then click OK.

To make no selections, click Cancel

PCL Driver Screens for Windows NT

Edit Watermark



Edit Watermark

To edit a Watermark, highlight one of the Watermarks listed on the previous screen, then click Edit to display the Edit screen shown above.

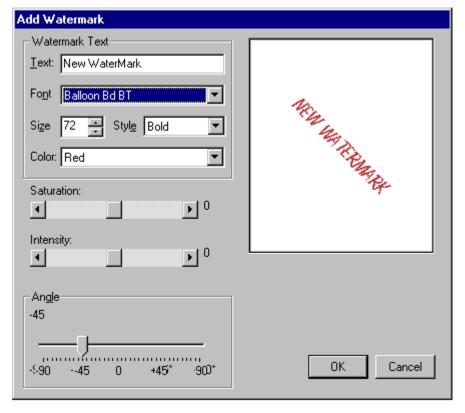
You may change the Font, Size, Style Color, Saturation, Intensity and the Angle.

When the edits are completed, click OK.

To leave the settings on this screen unchanged, click Cancel.

PCL Driver Screens for Windows NT

Add Watermark



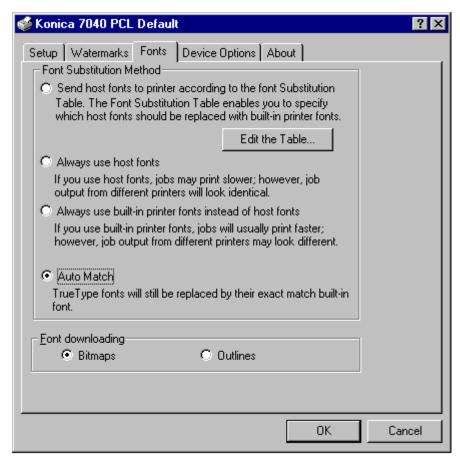
Add Watermark

- 1 To add a Watermark, click Add on the Watermarks screen.
- 2 In the Text field, enter the wording for the new Watermark.
- 3 Select the Font, Size, Style Color, Saturation, Intensity and the Angle, as desired.
- 4 When the settings are completed, click OK.

To leave the settings on this screen unchanged, click Cancel.

PCL Driver Screens for Windows NT

Fonts Tab



Fonts Screen

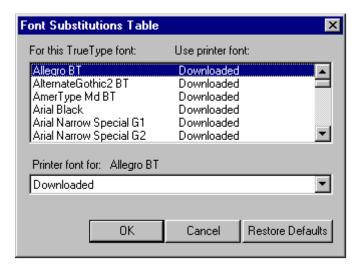
The Fonts tab displays a screen that shows the current font settings.

The default setting is Auto Match, which means that TrueType fonts will be replaced by the exact-match fonts built into your printer. Built-in fonts allow for speedier printing in comparison to using downloaded host fonts. Before changing this default setting, be sure you understand how it will affect printing performance.

To view or change the Auto Match fonts, click Edit the Table to display the Font Substitution Table (see next page.)

PCL Driver Screens for Windows NT

Fonts Substitution Table



Font Substitutions Table

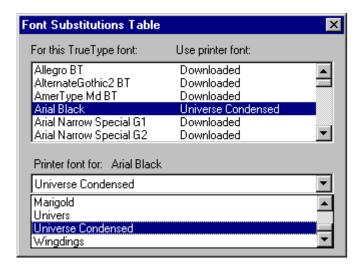
The Font Substitution Table enables you to specify which fonts shall be used by your printer for any given TrueType font. Keep in mind that fonts already built in to your printer enable you to print faster than fonts that need to be downloaded to your printer.

This sample screen indicates that an exact-match built-in printer font is used for the TrueType Arial font.

Use the arrows to scroll through the font list to see how they are currently specified. You may substitute any font to be used for a TrueType font. (See next page).

PCL Driver Screens for Windows NT

Fonts Substitution Table



Editing the Font Substitution Table

This sample screen shows that the Courier New TrueType font uses the exact-match Courier built-in printer font.

1 To edit the table, highlight a TrueType font.

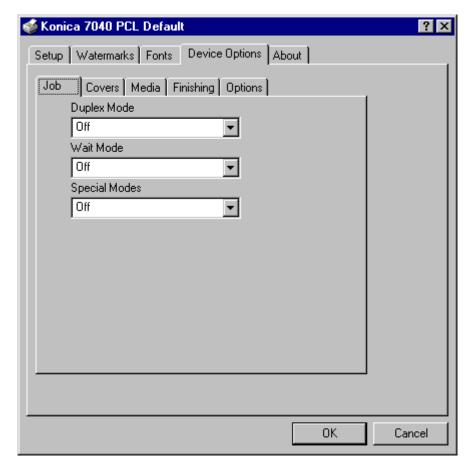
Notice that the currently selected printer font displays in the lower part of the screen.

2 Click the arrow in the [Printer font for:] field to scroll to a font substitution, then click OK.

To leave the setting unchanged, click Cancel.

PCL Driver Screens for Windows NT

Job Tab



Job Settings

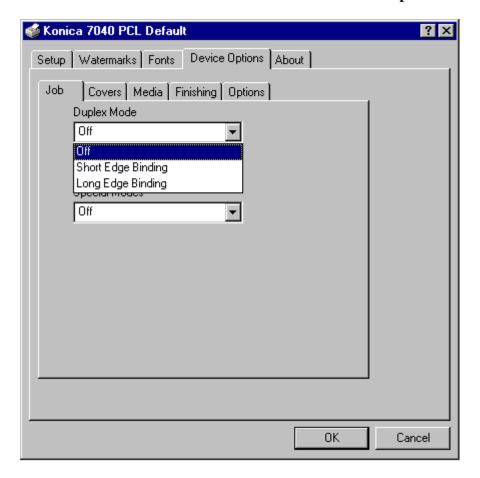
The current Job settings indicate that the Duplex Mode, Wait Mode and Special Modes are Off.

To view or change these settings, click the arrow next to the setting to display option settings, then click OK.

To view or change Duplex Mode settings, see next page.

PCL Driver Screens for Windows NT

Duplex Mode



Duplex Mode

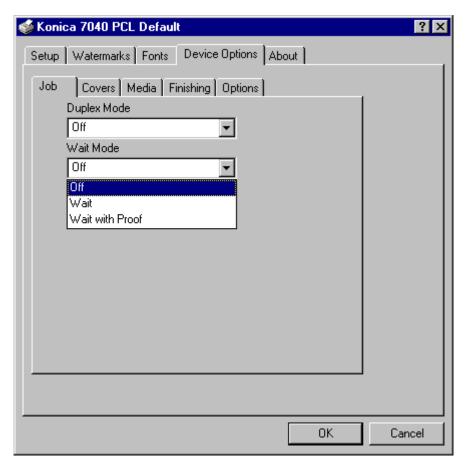
When you click the Duplex Mode arrow, you may select Short Edge Binding to bind the document along the short edge or you may select Long Edge Binding to bind the document along the long edge, as in the usual Portrait orientation.

When the binding style you want is indicated in the Duplex Mode field, click OK.

To leave the Duplex Mode setting unchanged, click Cancel.

PCL Driver Screens for Windows NT

Wait Mode



Wait Mode

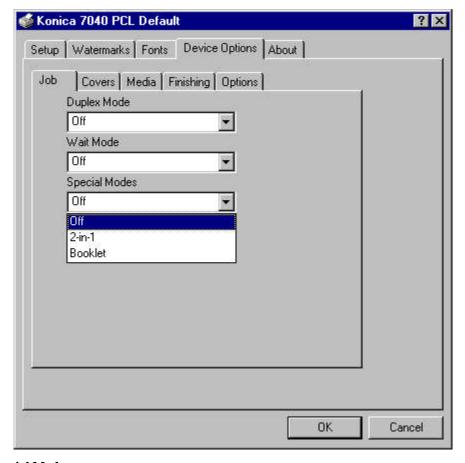
1 From the Job tab screen, click the arrow next to the Wait Mode field.

- Select Wait On to be prompted to install special paper, such as OHP, Thin stock or Thick stock before the printing job is started.
- Select Wait with Proof to be prompted to print a proof set before printing multiple sets.
- 2 When the setting you want is indicated in the Wait Mode field, click OK.

To leave the Wait Mode setting unchanged, click Cancel.

PCL Driver Screens for Windows NT

Special Modes



Special Modes

1 From the Job tab screen, click the arrow next to the Special Modes field to display the Special Modes options.

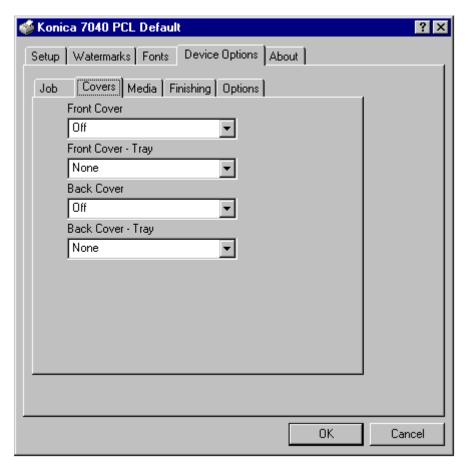
- Select 2-in-1 to print two pages (images) on one standard sheet.
- Select Booklet to print four pages (images) on one standard sheet.

2 When the setting you want is indicated in the Special Modes field, click OK.

To leave the Special Modes setting unchanged, click cancel.

PCL Driver Screens for Windows NT

Covers Tab



Default Settings for Covers

The Covers tab displays the above screen that shows the default settings for Front Cover, Front Cover Tray, Back Cover mode and Back Cover Tray.

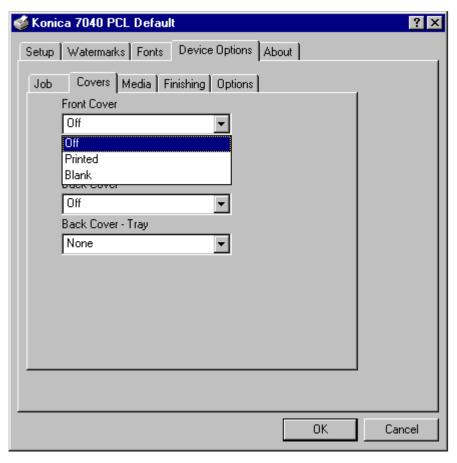
To view or change these settings, click the arrow next to one of the settings.

Options for the Front Cover mode are shown on the next page.

To leave the Cover setting unchanged, click Cancel.

PCL Driver Screens for Windows NT

Front Covers



Front Cover Mode

The Front Cover mode is Off by default. To view options, click the arrow next to the Front Cover field.

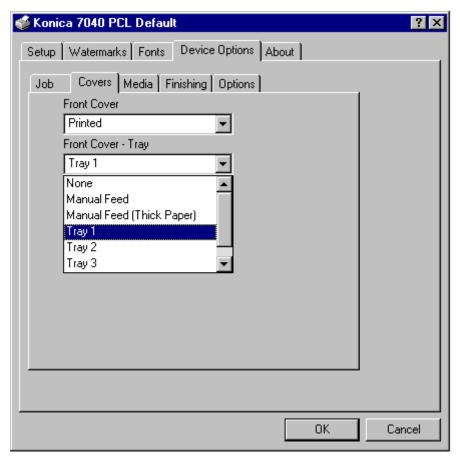
- Select Printed to print on the Front Cover sheets before inserting them into your document.
- Select Blank to insert Front Cover sheets into your document without printing them first.

Front Cover sheets do not have to be plain and can be colored or preprinted (as letterhead). In the Blank mode, preprinted Front Cover sheets will be inserted without any changes. In the Printed mode, you may print directly on the preprinted Front Cover sheets.

To leave the Front Cover Mode setting unchanged, click Cancel.

PCL Driver Screens for Windows NT

Front Covers



Front Cover Tray

1 Click on the arrow next to the Front Cover Tray field to view tray options.

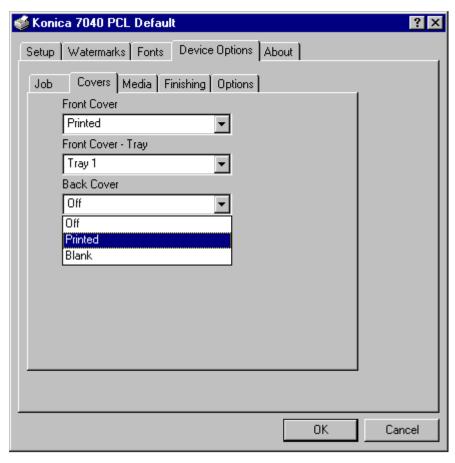
2 Highlight the tray you want to use for the Front Covers, then click OK. In this example, Tray 1 is selected.

If you are using colored or preprinted paper for the Front Covers, be sure to load the paper in the tray selected, otherwise the paper currently loaded will be used.

To leave the Front Cover Tray setting unchanged, click on Cancel.

PCL Driver Screens for Windows NT

Back Covers



Back Cover Mode

The Back Cover mode is Off by default. To view options, click the arrow next to the Back Cover field.

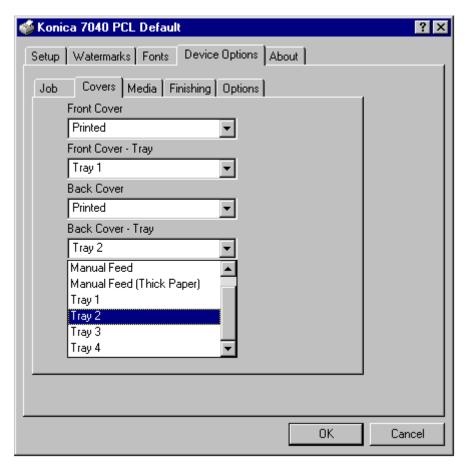
- Select Printed to print on the Back Cover sheets before inserting them into your document.
- Select Blank to insert the Back Cover sheets into your document without printing them first.

Back Cover sheets do not have to be plain and can be colored or preprinted (as letterhead). In the Blank mode, preprinted Back Cover sheets will be inserted without any changes. In the Printed mode, you may print directly on the preprinted Back Cover sheets.

To leave the Back Cover Mode setting unchanged, click Cancel.

PCL Driver Screens for Windows NT

Back Covers



Back Cover Tray

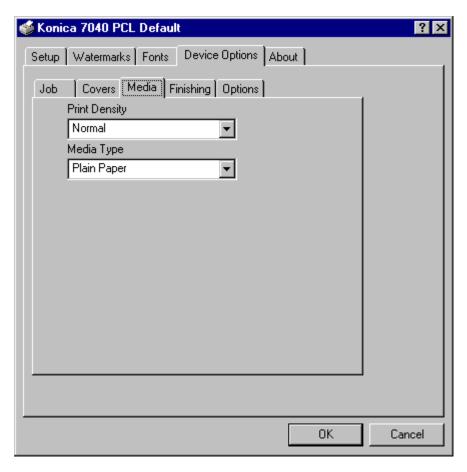
- 1 Click on the arrow next to the Back Cover Tray field to view tray options.
- 2 Highlight the tray you want to use for the Back Covers, then click OK. In this example, Tray 2 is selected.

If you are using colored or preprinted paper for the Back Covers, be sure to load the paper in the tray selected, otherwise the paper currently loaded will be used.

To leave the Back Cover Tray setting unchanged, click Cancel.

PCL Driver Screens for Windows NT

Media Tab



Media Settings

When you click on the Media tab, current settings are displayed for Print Density and Media Type.

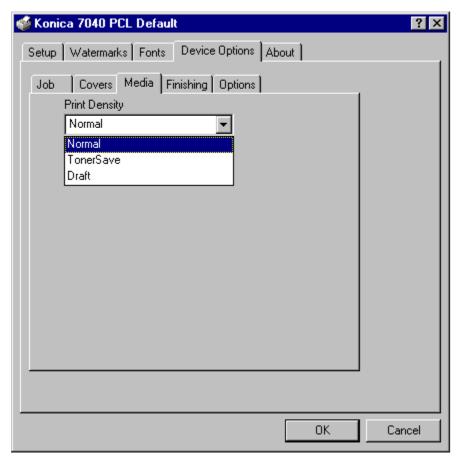
This screen shows that Normal is selected for Print Density and Plain Paper is selected for Media Type.

To change either of these settings, click the arrow next to the current setting to display options, highlight the setting you want, then click OK (see next page).

To leave the Media settings unchanged, click Cancel.

PCL Driver Screens for Windows NT

Media



Print Density

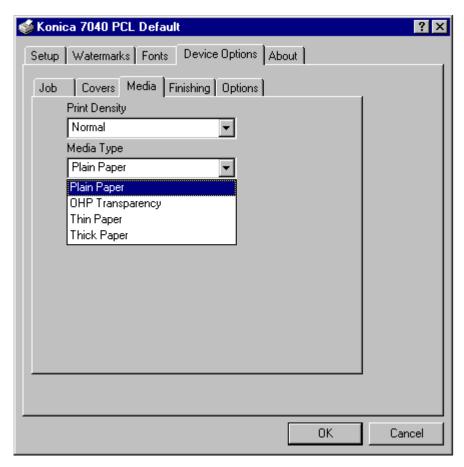
1 Click the arrow next to the Print Density setting to display density options.

- Select the Toner Save mode to use only 80% of the toner normally used.
- Select Draft mode to use only 60% of the toner normally used.
- 2 When the setting you want is displayed, click OK.

To leave the Print Density setting unchanged, click Cancel

PCL Driver Screens for Windows NT

Media



Media Type

When you click on the arrow next to the Media Type setting, a list of options appears, including OHP Transparency, Thin Paper and Thick Paper.

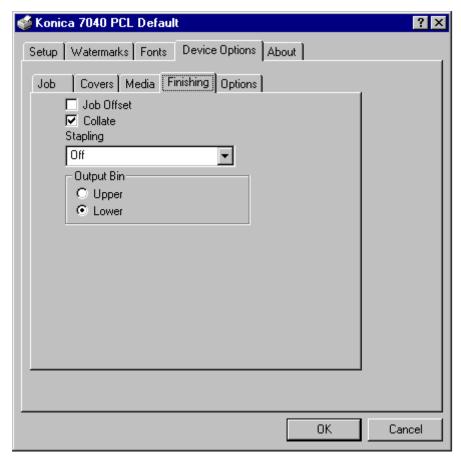
- 1 Highlight the setting you require. This screen shows OHP Transparency is selected.
- 2 Click OK to complete the selection.

Keep in mind that special stock is fed through the Bypass.

To leave the Media Type setting unchanged, click Cancel.

PCL Driver Screens for Windows NT

Finishing Tab



Finishing Settings

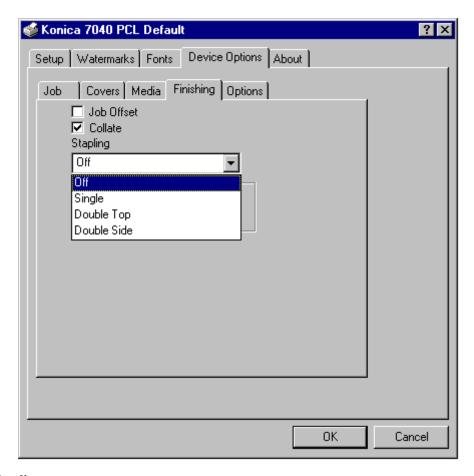
The Finishing screen shows the default settings for Collate, Stapling and Output Bin.

Click the arrow next to the Stapling setting (Off) to display optional Stapling settings. See next page.

To leave the Finishing settings unchanged, click Cancel.

PCL Driver Screens for Windows NT

Finishing



Stapling

Three Stapling options are available.

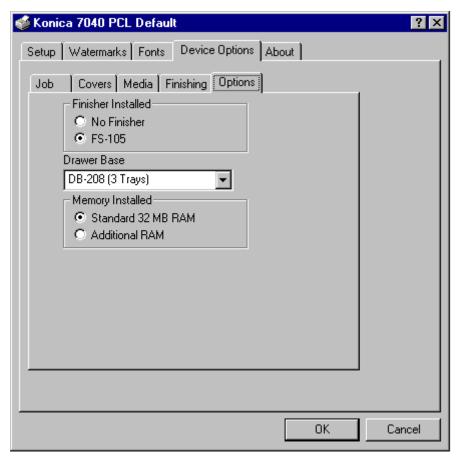
- Single stapling inserts one staple in the upper left corner of your document.
- Double Top stapling inserts two staples across the top edge of your document.
- Double Side stapling inserts two staples along the left edge of your document.

Highlight the desired Stapling setting, then click OK.

To leave the settings unchanged, click Cancel.

PCL Driver Screens for Windows NT

Options (Device)



Device Settings

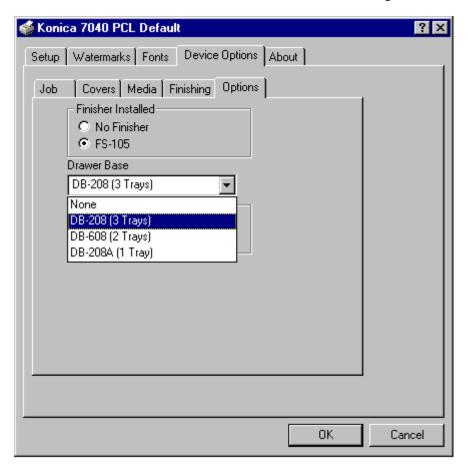
The Options screen shows the default settings for Finisher, Drawer Base and Memory installed.

To view or change the current Drawer Base setting, click on the arrow next to the Drawer Base (see next page.)

To leave the settings unchanged, click Cancel.

PCL Driver Screens for Windows NT

Options (Device)

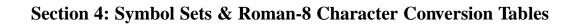


Drawer Base Setting

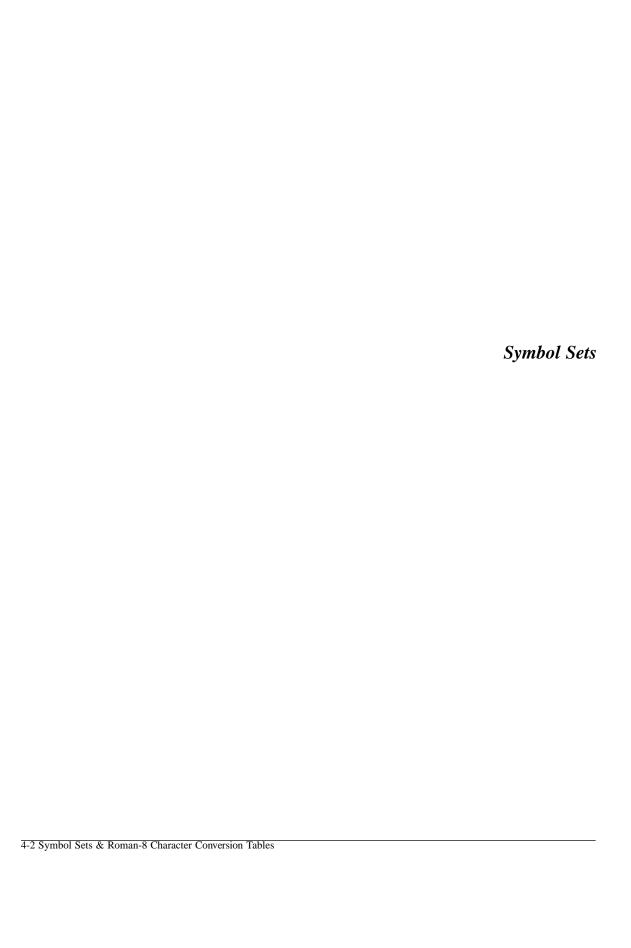
The current Drawer Base setting is displayed along with options settings.

To change the setting, highlight the desired setting, then click OK.

To leave the setting unchanged, click Cancel.



Symbol Sets 4-2 Roman-8 Character Conversion Tables 4-21



The symbol sets listed below are displayed on pages 4~19.

Please check your application software documentation to determine which symbol sets are supported.

For programmers using HP PCL language printer commands, the PCL value is given for each symbol set.

Symbol Sets

US: ASCII (ISO 6)

DT: Desk Top

E1: ECMA-94 Latin 1 (ISO 8859/1)

LG: Legal Symbol SetM8: Math-8 Symbol SetPB: Microsoft Publishing

PC: PC-8

PC: PC-8 DN (Denmark/Norway)

PM: PC-850 PI: Pi Font MS: PS Math TS: PS Text R8: Roman-8

VI: Ventura International

VM: Ventura Math VU: Ventura US WN: Windows

US: ASCII (ISO 6) Symbol Set

PCL Value: ØU

NUL	DLE		0	@	P	6	n								
0	16	32	48	64	80	96	p	128	144	160	176	192	208	224	240
	10							120	144	100	170	192	200	224	240
SOH	DC1	!	1	Α	Q	a	q								
1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
STX	DC2	. 17	2	В	R	b	r								
2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
ETX	DC3	#	3	C	S	С	s								
3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
ЕОТ	DC4	\$	4	D	T	d	t								
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
ENQ	NAK	%	5	E	U	e	u								
5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
ACK	SYN	&	6	F	V	f	v								
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
BEL	ЕТВ	,	7	G	W	g	w								
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
BS	CAN	(8	Н	X	h	X								
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
нт	ЕМ)	9	I	Y	i	у								
9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
LF	SUB	*	:	J	Z	j	z								
10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
VT	ESC	+	;	K	[k	{								
11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
FF	FS	,	<	L	\	1									
12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
CR	GS	-	=	M]	m	}								
13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
so	RS		>	N	^	n	~								
14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
SI	US	/	?	О	_	o	*			İ					
15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255

⁴⁻⁴ Symbol Sets & Roman-8 Character Conversion Tables

DT: Desk Top Symbol Set

PCL Value: 7J

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NUL	DLE		0	@	P	٠	p				"	_	<	a	1
0	16_	32	48	64	80	96	112	128	144	160	176	192	208	224	240
SOH	DC1	!	1	Α	Q	a	q			1	"	±	>	0	`
1	17_	33	49	65	81	97	113	129	145	161	177	193	209	225	241
STX	DC2	11	2	В	R	b	r			§	μ	×	«	æ	^
2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
ETX	DC3	#	3	C	S	c	S			†	‰	÷	»	Æ	••
3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
EOT	DC4	\$	4	D	T	d	t			#	•	0	,	ð	~
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
ENQ	NAK	%	5	E	U	e	u			O	•	'	"	Đ	•
5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
ACK	SYN	&	6	F	V	f	V			®	0	"	• '	ij	
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
BEL	ЕТВ	,	7	G	W	g	W			TM	0	1/4	i	IJ	
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
BS	CAN	40	8	H 72	X 88	h 104	X 120	136	152	C/O 168	184	1/2	ز 216	} 232	248
8	24							136	132						240
нт	EM)	9	I	Y	1	У			¢		3/4	Pt	Ł	
9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
LF	SUB	*	:	J	Z	j	Z			-		1	ℓ	œ	-
10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
VT	ESC	+	;	K	[k	{			_		2	£	Œ	3
11	27	43	59	75	91	107	123	139	155	171	187	203	219	235_	251
FF	FS	,	<	L	١	1					1	3	¥	Ø	·
12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
CR	GS	-	=	M]	m	}			fi	\neg	/	¤	Ø	•
13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
so	RS	•	>	N	^	n	~			fl			f	þ	1
14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
SI	US	/	?	О	_	0	**				=		ß	Þ	
15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255

1: ECMA-94 Latin 1 (ISO 8859/1) Symbol Set

PCL Value: ØN

NUL	DLE		0	@	P	`	p				•	À	Ð	à	ð
0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
SOH	DC1	!	1	Α	Q	a	q			i	±	Á	Ñ	á	ñ
1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
STX	DC2	11	2	В	R	b	r			¢	2	Â	Ò	â	ò
2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
ETX	DC3	#	3	C	S	c	s			£	3	Ã	Ó	ã	ó
3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
EOT	DC4	\$	4	D	T	d	t			¤	1	Ä	Ô	ä	ô
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
ENQ	NAK	%	5	$\mid \mathbf{E} \mid$	U	e	u			¥	μ	Å	Õ	å	õ
5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
ACK	SYN	&	6	F	V	f	V			-	\P	Æ	Ö	æ	ö
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
BEL	ЕТВ	'	7	G	W	g	w			§	•	Ç	X	Ç	÷
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
BS	CAN	(8	Н	X	h	X				د	È	Ø	è	Ø
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
нт	ЕМ)	9	I	Y	i	у			O	1	É	Ù	é	ù
9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
LF	SUB	*	:	J	Z	j	Z			a	0	Ê	Ú	ê	ú
10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
VT	ESC	+	;	K	[k	{			*	»	Ë	Ü	ë	û
11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
FF	FS	,	<	L	\	1					1/4	Ì	U	ì	ü
12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
CR	GS	-	=	M]	m	}			-	1/2	Í	Ý	í	ý
		45	61	77	93	109	125	141	157	173	189	205	221	237	253
13	29	43			1										
so	RS		>	N	^	n	~			®	3/4	Î	Þ	î	þ
			62	N 78	94	n 110	126	142	158	174	190	206	222	238	254
so	RS		-	1				142	158	_		ì		1	_

LG: Legal Symbol Set

PCL Value: 1U

NUL	DLE	,	0	@	P	0	p				,				
0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
SOH	DC1	!	1	Α	Q	a	q								
1_	17	33	49	65	81	97	113	129	145	161	177	193	209	225_	241
STX	DC2	"	2	В	R	b	r								
2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
ETX	DC3	#	3	C	S	С	S								
3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
EOT	DC4	\$	4	D	T	d	t								
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
ENQ	NAK	%	5	E	U	e	u								
5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
ACK	SYN	&	6	F	V	f	V								
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
BEL	ЕТВ	′	7	G	W	g	w								
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
BS	CAN	(8	Н	X	h	X								
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
нт	ЕМ)	9	I	Y	i	у								
9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
LF	SUB	*	:	J	Z	j	Z								
10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
VT	ESC	+	;	K	[k	§								
11	27	43	59	75_	91	107	123	139	155	171	187	203	219	235	251
FF	FS	,	_	L	®	1	1								
12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
CR	GS	-	=	M]	m	†								
13	29	45	61_	77	93	109	125	141	157	173	189	205	221	237	253
so	RS	.	¢	N	O	n	TM								
14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
SI	US	/	?	O	=	0	**							000	OFF
15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255

M8: Math-8 Symbol Set

PCL Value: 8M

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0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
SOH	DC1	\checkmark	1	Α	P	α	ρ			1	A	0	⊣	L	L
1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
STX	DC2	"	2	В	Σ	β	σ			->	3	\otimes	—]
2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
ETX	DC3	٥	3	Γ	T	γ	au			1	T	Θ	L	{	}
3_	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
EOT	DC4	∞	4	Δ	Υ	δ	υ			←	T	0	Э	J	J
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
ENQ	NAK	÷	5	E	Φ	ϵ	ϕ			1	U	Λ	ſ	ſ	
5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
ACK	SYN	∝	6	Z	X	ζ	χ			⇒	\cap	V	•	ф	
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
BEL	ЕТВ	'	7	Н	Ψ	η	$ \psi $			↓	\in	⊻	Z	J	1
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
BS	CAN	(8	θ	Ω	θ	ω			⇐	€	7	Ø	/	`
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
нт	EM)	9	I	∇	ι	ϑ			\$	∉	0	*		>
9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
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10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
VT	ESC	+	3	Λ	ς	λ				1	\supset	•	3	/	251
11_	27	43_	59	75	91	107	123	139	155	171	187	203	219	235	251
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12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
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13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
so	RS		>	Ξ	≥	ξ	≢			⇆	\subseteq	†	R	*	±
14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
SI	US	/	≈	O		0	**		455]⊇	‡	3	≅	OFF
15	31_	47	63	79	95	111	127	143	159	175	191	207	223	239	255

PB: Microsoft Publishing Symbol Set

PCL Value: 6J

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0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
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1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
		"			Ŗ					"	•	1	,		
2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
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3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
		4			TM		Thin			~	0	~	~		
4	20	36	52	68	84	100	Space 116	132	148	164	180	196	212	228	244
		5									0	_	-		1
- 5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
		7									0))	IJ	ij
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
BEL		,									-		•	Ŀ	ŀ
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
BS		9										••		Ł	ł
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
нт		0			Ÿ					fi					
9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
LF		8			Ž		ž			fl		۰	۰		
10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
VT	ESC	†								ff		خ			
11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
FF		,	,,			ℓ				ffi					
12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
CR		-	‡	_		Em Space				ffl	‰		"		
13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
so				-	6	En Space	"		Pt	<	•	د	د		
14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
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°C: PC-8 Symbol Set

PCL Value: 1ØU

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1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
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3	19	35	51	67	83	99	115	131	147	163	179	1 195	211	227	243
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4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
*	§	%	5	Е	U	е	u	à	ò	Ñ	4	4	F	σ	J
5	21	37	53	69	85	101	117	133	149	165	181	 197	213	229	J 245
A		&	6	F	V	f	V	å	û	a	\exists	F	Е	μ	÷
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
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7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
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8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
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9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
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10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
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11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
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12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
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13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
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14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
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15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255

PC: PC-8 DN (Denmark/Norway) Symbol Set

PCL Value: 11U

NUL	>		0	@	P	`	р	Ç	É	á	:::	L	Ш	α	=
0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0	4	!	1	Α	Q	a	q	ü	æ	í	**	ㅗ	=	ß	±
1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
•	\$	"	2	В	R	b	r	é	Æ	ó	Ħ	\top	┰	Γ	≥
2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
~	!!	#	3	C	S	С	S	â	ô	ú		-	Щ	π	≤
3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
•	¶	\$	4	D	T	d	t	ä	ö	ñ	+		F	Σ	ſ
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
*	§	%	5	E	U	e	u	à	ò	Ñ	=	+	F	σ	J
5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
•	_	&	6	F	V	f	V	å	û	õ	$ \dashv $	=	Г	μ	÷
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
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7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
	1	(8	Н	X	h	X	ê	ÿ	ن	7	L	+	Φ	0
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
0	↓)	9	I	Y	i	У	ë	Ö	ã	ᅦ	F		θ	•
9	25	41	57	73	89	105	121	137	153	169 ~	185	201	217	233	249
10	→ 26	*	58	J 74	Z	j 106	Z	è 138	Ü 154	Ã	186	<u>JL</u>	218	Ω 234	• 250
											100	202	210		
♂ 11	27	43	• • 59	K 75	[91	k 107	123	ï 139	Ø 155	ℓ 171	187	7F 203	219	δ 235	√ 251
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13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
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15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255

PM: PC-850 Symbol Set

PCL Value: 12U

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0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
©	◀	!	1	Α	Q	a	q	ü	æ	í	*	ㅗ	Đ	ß	±
1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
0	\$	"	2	В	R	b	r	é	Æ	ó	Ħ	$ $ \top	Ê	Ô	_
2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
V	!!	#	3	C	S	С	S	â	ô	ú		-	Ë	Ò	3/4
3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
•	9	\$	4	D	T	d	t	ä	ö	ñ	+		È	õ	\P
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
*	§	%	5	E	U	e	u	à	ò	Ñ	Á	+	1	Õ	§
5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
•	_	&	6	F	V	f	V,	å	û	a	Â	ã	Í	μ	÷
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
•	<u>\$</u>	•	7	G	W	g	w	ç	ù	0	À	Ã	Î	þ	3
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
•	1	(8	Н	X	h	X	ê	ÿ	ن	O	ᆫ	Ϊ	Þ	0
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
0	↓)	9	I	Y	i	у	ë	Ö	®	ᅦ	F		Ú	••
9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
0	->	*	:	J	Z	j	z	è	Ü	_		ᆜᆜ	Г	Û	•
10	26	42	58	74	90_	106	122	138	154	170	186	202	218	234	250
♂	←	+	;	K	[k	{	ï	Ø	1/2	٦	ᆕ		Ù	1
11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
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12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
V	↔	-	=	M]	m	}	ì	Ø	i	¢	=		Ý	2
13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
Ŋ	•		>	N	^	n	~	Ā	×	«	¥	#	Ì	-	•
14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
							\wedge	X I	~ I			I			}
☆ 15	▼	47	?	O 79	95	0	127	Å 143	<i>f</i>	» 175	191	D 207	223	239	255

PI: Pi Font Symbol Set

PCL Value: 15U

NUL	DLE		-	::	P	_	7								
0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
SOH	DC1		(△	Ø	ᆫ	┙								
1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
STX	DC2	"	~		Ŗ		`								
2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
ETX	DC3	,	•		Σ	ر	ノ								
3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
EOT	DC4	"	1			+	$\overline{}$								
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
ENQ	NAK	"	1			F	4								
5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
ACK	SYN	6	1	F			上								
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
BEL	ЕТВ	,	K												
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
BS	CAN	(Δ	ħ		U	Ш								
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
нт	ЕМ		>			$ \cap $	П								
9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
LF	SUB	TM	▽							470	186	202	218	234	250
10	26	42	58	74	90	106	122 II	138	154	170	100	202	210	234	230
VT	ESC	SM	٥			L	Ш								
11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
FF	FS	®	⋖	\mathscr{L}											
12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
CR	GS	©	§	ℓ		\Diamond	•								
13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
so	RS	199	≫		<										
14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
SI	us		1		>		**								
15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255

MS: PS Math Symbol Set

PCL Value: 5M

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NUL	DLE		0	≅	П	_	π				0	*	7	\Diamond	
0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
sон	DC1	!	1	Α	θ	α	θ			Υ	±	3	∇	(
1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
STX	DC2	A	2	В	P	β	ρ			′	"	R	R	R	ſ
2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
ETX	DC3	#	3	X	Σ	χ	σ			≤	≥	Ø	©	©	
3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
ЕОТ	DC4	3	4	Δ	T	δ	τ			1	×	8	TM	TM	
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
ENQ	NAK	%	5	E	Y	ε	υ			∞	œ	Φ	П	Σ	J
5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
ACK	SYN	&	6	Φ	ς	ϕ	σ			f	∂	Ø	1	ſ)
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
BEL	ETB	Э	7	Г	Ω	γ	ω			*	•	\cap	•		
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
BS	CAN	(8	H	Ξ	η	ξ			•	÷	U	7	l	J
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
нт	ЕМ)	9	I	Ψ	ι	ψ			V	≠	\supset	٨		
9	_25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
LF	SUB	*	:	θ	Z	φ	ζ			•	=	⊇	V		
10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250 I
VT	ESC	+	;	K	[κ	{			↔	*	Ø	⇔	L	
11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
FF	FS	,	<	Λ	·•	λ				-	•••	\subset	←		1
12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
CR	GS	_	=	M]	μ	}			1		⊆	Î	{	}
13			61	77	93	109	125	141	157	173	189	205	221	237	253
	29	45	- 01												
so	RS		>	N	1	ν	~			→	_	\in	⇒	l	J
		• 46	> 62		<u></u>	ν 110	126	142	158	→ 174	190	206	⇒ 222	238	J 254
so	RS		>	N		- 1		142	158		190 L			238	J 254

TS: PS Text Symbol Set

PCL Value: 1ØJ

NUL	DLE		0	@	P	6	p						_		
0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
SOH	DC1	:-	1	Α	Q	a	q			i	_	`		Æ	æ
1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
STX	DC2	**	2	В	R	b	r			¢	†	1			
2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
ETX	DC3	#	3	C	S	c	S			£	‡	^		a	
3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
EOT	DC4	\$	4	D	T	d	t			/	•	~			
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
ENQ	NAK,	%	5	Е	U	e	u			¥		-			1
5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
ACK	SYN	&	6	F	V	f	v			f	$ \P$	٦			
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
BEL	ЕТВ	,	7	G	W	g	w			§	•	•			
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
BS	CAN	(8	H	X	h	X			¤	,			Ł 232	ł
8	24	40	56	72	88	104	120	136	152	168	184	200	216		248
нт	ЕМ)	9	I	Y	i	у				"			Ø	Ø
9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
LF	SUB	*	:	J	Z	j	Z	100	454	470	**			Œ 234	œ
10	26	42	58	74	90	106	122	138	154	170	186	202	218	0	250
VT	ESC	+	;	K	[k	{			*	»	3			ß 251
11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	201
FF	FS	,	<	L	\	1				〈	•••				050
12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
CR	GS	-	=	M]	m	}			>	‰				
13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
so	RS		>	N	^	n	~			fi					05.
14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
					1		1	l	l	fl		~	1	1	l
SI 15	US 31	47	?	O 79	 95	0 111	127	143	159	175	191	207	223	239	255

R8: Roman-8 Symbol Set

PCL Value: 8U

NUL	DLE		0	@	P	4	р				_	â	Å	Á	Þ
0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
		!	1					120	.144	À	Ý	ê	î	Ã	
SOH	DC1			Α	Q	a	q				1	l l			þ
1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
STX	DC2	"	2	B	R	b	r			Â	ý	ô	Ø	ã	.
_2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
ETX	DC3	#	3	C	S	С	S			È	0	û	Æ	Ð	μ
3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
EOT	DC4	\$	4	D	T	d	t			Ê	Ç	á	å	ð	1
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
ENQ	NAK	%	5	E	U	e	u			Ë	ç	é	í	Í	3/4
5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
ACK	SYN	&	6	F	V	f	v			Î	Ñ	ó	ø	Ì	_
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
BEL	ЕТВ	,	7	G	W	g	w			Ϊ	ñ	ú	æ	Ó	1/4
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
BS	CAN	(8	Н	X	h	X			1	i	à	Ä	Ò	1/2
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
нт	EM)	9	I	Y	i	у			`	ن	è	ì	Ō	a
9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
LF	SUB	*	:	J	Z	j	z			^	¤	δ	Ö	õ	0
10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
VT	ESC	+	;	K	[k	{			••	£	ù	Ü	Š	*
11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
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12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
CR	GS	-	=	M]	m	}			Ù	§	ë	ï	Ú	»
13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
so	RS		>	N	^	n	~			Û	f	ö	ß	Ÿ	土
14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
SI	US	/	?	О		o	*			£	¢	ü	Ô	ÿ	
15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255

VI: Ventura International Symbol Set

PCL Value: 13J

NUL	DLE		0	@	P	4	p			22	‰	â	Å	Á	Œ
0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
зон	DC1	!	1	Α	Q	a	q			À	"	ê	î	Ã	œ
1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
STX	DC2	"	2	В	R	b	r			Â	"	ô	Ø	ã	1
2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
ETX	DС3	#	3	C	S	c	S			È	٥	û	Æ		†
3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
EOT	DC4	\$	4	D	T	d	t			Ê	Ç	á	å		‡
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
ENQ	NAK	%	5	E	U	e	u			Ë	ç	é	í	Í	_
5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
ACK	SYN	&	6	F	V	f	v			Î	Ñ	ó	ø	Ì	-
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
BEL	ЕТВ	,	7	G	W	g	w			Ϊ	ñ	ú	æ	Ó	
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
BS	CAN	(8	Н	X	h	X			O	i	à	Ä	Ò	
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
нт	EM)	9	I	Y	i	у			®	ن	è	ì	Õ	a
9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
LF	SUB	*	:	J	Z	j	Z			TM	¤	δ	Ö	õ	0
10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
VT	ESC	+	;	K	[k	{			<	£	ù	Ü	Š	*
11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
FF	FS	,	<	L	١	1				>	¥	ä	É	š	•
12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
CR	GS	-	=	M]	m	}			Ù	§	ë	ï	Ú	»
13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
so	RS		>	N	^	n	~			Û	f	ö	ß	Ÿ	
14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
SI	us	/	?	О	_	0					¢	ü	Ô	ÿ	•••
15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255

VM: Ventura Math Symbol Set

PCL Value: 6M

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NUL	DLE		0	≅	Π	_	π			\Diamond	R	≤	1		П
0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
SOH	DC1	!	1	Α	θ	α	θ			√	\supset	♦	←	•	TM
1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
STX	DC2	A	2	В	P	β	ρ			J	\supseteq	≥	R	L	#
2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
ETX	DC3	#	3	X	Σ	χ	σ				ſ	∂	"	J	⇔
3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
EOT	DC4	3	4	Δ	T	δ	au					*	f		٧
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
ENQ	NAK	%	5	E	Y	ε	υ			L	*	′	\Im	{	$ \Sigma $
5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
ACK	SYN	&	6	Φ	ς	φ	σ			[\oplus	R	©	ſ	TM
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
BEL	ЕТВ	Э	7	Γ	Ω	γ	ω				\otimes	Ø	±	\	
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
BS	CAN	(8	Н	Ξ	η	ξ			1	⊆	∞	→		
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
нт	EM)	9	I	Ψ	ι	ψ			⇒	U	•	1	7	Ø
9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
LF	SUB	*	:	θ	Z	φ	2	400	154	₩ 170	186	∞ ∞	≠	234	250
10	26	42	58	74	90	106	122	138	154	170	100	202		234	
VT	ESC	+	;	K	[κ	{			⊄	•••	•	=	ı	\in
11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
FF	FS	,	<	Λ	••	λ						/	0		©
12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
CR	GS	_	=	M]	μ	}			J	Λ	V	↔		∉
13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
so	RS		>	N	1	ν	~				ب	X		J	
14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
SI	US	/	?	0	_	0				}	≈	Υ	1	÷	(
15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255

VU: Ventura US

PCL Value: 14J

NUL	DLE		0	@	P	6	p			"	‰				
0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
SOH	DC1	!	1	A	Q	a	q				"				
1_	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
STX	DC2	**	2	В	R	b	r				97				\P
2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
ETX	DC3	#	3	C	S	С	S				0				†
3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
EOT	DC4	\$	4	D	T	d	t								‡
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
ENQ	NAK	%	5	E	U	e	u								_
5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
ACK	SYN	&	6	F	V	f	v								-
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
BEL	ETB	,	7	G	W	g	w								
7_	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
BS	CAN	(8	H	X	h	X	400	450	©	404	200	040	000	240
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
нт	EM)	9	I	Y	i	У			®					
9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
LF	SUB	*	:	J	Z	j	Z			TM					252
10_	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
VT	ESC	+	;	K	[k	{								
11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
FF	FS	,	<	L	١	1									•
12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
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1 42			61	77	93	109	125	141	157	173	189	205	221	237	253
13	29	45	01											l	
so	RS		>	N	^	n	~								
			> 62			n 110	~ 126	142	158	174	190	206	222	238	254
so	RS		>	N	^		126	142	158	174	190 ¢	206	222	238	254 255

WN: Windows

PCL Value: 9U

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NUL 0	16	32	48	64	80	96	p	128	144	160	176	192	208	224	240
	10	!	1					120	6	100		Á	Ñ		
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1_1_	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
		, ''	2	В	R	b	r		'	¢	2	Â	Ò	â	ò
2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
		#	3	C	S	c	S			£	3	Ã	Ó	ã	ó
3_	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
		\$	4	D	T	d	t			¤		Ä	Ô	ä	ô
4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
		%	5	E	U	e	u			¥	μ	Å	Õ	å	õ
5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
		&	6	F	V	f	v			1	9	Æ	Ö	æ	ö
6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
BEL		•	7	G	W	g	w			§	•	Ç	×	ç	÷
7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
BS		(8	Н	X	h	X			••	ı.	È	Ø	è	ø
8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
нт)	9	Ι	Y	i	у			0	1	É	Ù	é	ù
9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
LF		*	:	J	Z	j	z			a	0	Ê	Ú	ê	ú
10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
VΤ	ESC	+	;	K	[k	{			*	»	Ë	Û	ë	û
11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
FF		,	<	L	\	1				\neg	1/4	Ì	Ü	ì	ü
12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
CR		-	=	M]	m	}			-	1/2	Í	Ý	í	ý
13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
so			>	N	^	n	~			®	3/4	Î	Þ	î	þ
14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
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15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255



Roman-8 Character Conversion Tables

When the Roman-8 symbol set is downloaded to a PCL-based printer, it can be changed to other ISO symbol sets. The Roman-8 Symbol Set is displayed on p. 4-16.

The decimal value for each symbol indicated on the Roman-8 Symbol Set can be entered with a corresponding hexadecimal or octal value as shown in the Tables on the pages following. The type of entry that is required depends on specific requirements of your software.

Roman-8 Character Conversion Tables

	_	Roman-8 Character Conversion Table	ter Conversion	Table
Graphic	Hexadecimal	Decimal	Octal	Description
	00	Ø	000	NUL (Null)
	01	_	001	SOH (Start of Heading)
	02	2	002	STX (Start of Text)
	03	က	600	ETX (End of Text)
	04	4	004	EOT (End of Transmission)
	92	5	9005	ENQ (Enquiry)
	90	9	900	ACK (Acknowledge)
	07	7	400	BEL (Bell)
	08	80	010	BS (Backspace)
	60	တ	011	HT (Horizontal Tabulation)
	0A	10	012	LF (Line Feed)
	0B	=	013	VT (Vertical Tabulation)
	90	12	014	FF (Form Feed)
	QØ	13	015	CR (Carriage Return)
	0E	14	016	SO (Shift Out)
	0F	15	017	SI (Shift In)
	10	16	020	DLE (Data Link Escape)
	F	17	021	DC1 (Device Control 1 or X-On)
	12	48	022	DC2 (Device Control 2)
	13	19	203	DC3 (Device Control 3 or X-Off)
	14	20	024	DC4 (Device Control 4)
	15	21	025	NAK (Negative Acknowledge)
	16	22	026	SYN (Synchronous Idle)
	17	23	027	ETB (End of Transmission Block)
	- 48	24	Ø3Ø	CAN (Cancel)
	19	25	031	EM (End of Medium)
	1A	26	032	SUB (Substitute)
	18	27	033	ESC (Escape)
	5	28	034	FS (File Separator)
	Ð	59	035	GS (Group Separator)
	Ħ	300	036	RS (Record Separator)
	부	31	037	US (Unit Separator)
	20	32	040	SP (Space)

Roman-8 Character Conversion Tables

Roman-8 Character Conversion Table (continued)	Octal Description	Ø41 Exclamation Point	042 Quotation Mark	043 Number Sign	044 Dollar Sign			047 Closing Single Quote (Apostrophe)		Ø51 Closing Parenthesis	_	053 Plus	Ø54 Comma	Ø55 Hyphen	Ø56 Period (Point)	057 Slant (Solidus)		Ø61 One	062 Two	Ø63 Three	064 Four	065 Five	066 Six	067 Seven	070 Eight		Ø72 Colon	Ø73 Semicolon	074 Less Than Sign	075 Equal Sign	076 Greater Than Sign	077 Question Mark	100 Commercial At	101 Uppercase A
nan-8 Character C	Decimal	33	34	35	36	37	38	39	40	41	45	43	44	45	46	47	48	49	20	51	25	23	54	52	26	22	28	29	09	61	62	63	64	65
Ron	Hexadecimal	21	52	23	24	22	26	27	78	59	5A	2B	5C	SD	2E	2F	30	31	32	33	34	35	98	37	38	39	3A	38	၁၉	3D	띪	SF.	40	41
	Graphic		=	#	€	%	જ		_	^	*	+	•			/	0	-	7	က	4	2	9	7	80	တ		••	V	II	٨	<i>د</i> .	©	A

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ile (continued)	Description	Uppercase B	Uppercase C	Uppercase D	Uppercase E	Uppercase F	Uppercase G	Uppercase H	Uppercase I	Uppercase J	Uppercase K	Uppercase L	Uppercase M	Uppercase N	Uppercase O	Uppercase P	Uppercase Q	Uppercase R	Uppercase S	Uppercase T	Uppercase U	Uppercase V	Uppercase W	Uppercase X	Uppercase Y	Uppercase Z	Opening Square Bracket	Reverse Slant	Closing Bracket	Caret (Circumflex)	Underscore (Low Line)	Opening Single Quote	Lowercase a
Roman-8 Character Conversion Table (continued)	Octal	102	103	104	105	106	107	110	111	112	113	114	115	116	117	120	121	122	123	124	125	126	127	130	131	132	133	134	135	136	137	140	141
nan-8 Character	Decimal	99	29	89	69	70	71	72	73	74	75	9/	11	78	6/	80	81	82	83	84	82	98	87	88	68	Ø6	91	95	93	94	92	96	97
Ron	Hexadecimal	42	43	44	45	46	47	48	49	4 A	48	4C	4	4E	4F	20	51	52	53	54	55	26	22	58	29	2A	5B	20	2D	5E	5F	09	61
	Graphic	В	O	۵	Ш	Щ	g	I	_	7	×	_	Σ	z	0	۵	Ø	Œ	တ	<u></u>	>	>	>	×	>	Z		_		<	1	•	ಹ

Roman-8 Character Conversion Table (continued)	Octal Description	142 Lowercase b	143 Lowercase c	144 Lowercase d	145 Lowercase e	146 Lowercase f	147 Lowercase g	150 Lowercase h	151 Lowercase i	152 Lowercase j	153 Lowercase k	154 Lowercase I	155 Lowercase m	156 Lowercase n	157 Lowercase o	160 Lowercase p	161 Lowercase q	162 Lowercase r	163 Lowercase s	164 Lowercase t	165 Lowercase u	166 Lowercase v	167 Lowercase w	170 Lowercase x	171 Lowercase y	172 Lowercase z	173 Opening Brace (Curly Bracket)		175 Closing Brace (Curly Bracket)	176 Approximate (tilde)	177 DEL (Delete)	200 Undefined Control Code	201 Undefined Control Code
man-8 Character C	Decimal	86	66	100	101	102	103	104	105	106	107	108	109	110	=======================================	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129
Ro	Hexadecimal	62	63	64	65	99	29	89	69	6 A	6B	29	Q9	99	- 6F	70	71	72	. 22	74	75	9/	77	78	79	4×	78	20	7D	7E	7F	80	81
	Graphic	q	ပ	ъ	Φ	4	D	ح	-	-	¥	_	٤	c	0	۵	0	_	Ø	-	3	>	*	×	^	Z	.	_	~	₹		•	

Roman-8 Character Conversion Table (continued)	Hexadecimal Decimal Octal Description	82 130 202 Undefined Control Code	83 131 203 Undefined Control Code	132	133	86 134 206 Undefined Control Code	 136	137	138	139	140	141	 143	144	91 145 221 Undefined Control Code	146	147	148	149	150		99 153 231 Undefined Control Code	155	9C 156 234 Undefined Control Code	9D 157 235 Undefined Control Code	158	9F 159 237 Undefined Control Code	AØ 160 238 Undefined Control Code	
	Graphic Hexa																										-		

Graphic Graphic A A A A A A A A A A A A A A A A A A A	Hexadecimal Hexadecimal Hexadecimal A1	Decimal Octal Description 161	241 241 242 243 244 244 244 245 246 247 246 251 252 253 254 255 256 257 260 261 262 270 270 271 275 276	Description Uppercase A Grave Uppercase A Circumflex Uppercase E Grave Uppercase E Grave Uppercase E Grave Uppercase E Circumflex Uppercase E Circumflex Uppercase I Circumflex Uppercase I Dieresis Lowercase Acute Accent Lowercase I Dieresis Lowercase Grave Accent Lowercase Grave Accent Lowercase U Grave Uppercase V Acute Lowercase V Acute Coverscore (High Line) Uppercase C Cedilla Lowercase C Cedilla Lowercase C Cedilla Lowercase N Tilde Lowercase N Tilde Lowercase N Tilde Lowercase N Tilde Covercase N Tilde Co
≯ «d	ු වූ	192	300	Control of the Contro

Graphic Hexadecimal Decimal Octal Description 6 C2 194 302 Lowercase of Circumflex 0 C2 195 303 Lowercase of Circumflex 0 C3 196 304 Lowercase of Circumflex 0 C4 196 304 Lowercase of Circumflex 0 C5 198 306 Lowercase of Circumflex 0 C6 198 307 Lowercase of Circumflex 0 C6 199 307 Lowercase of Acute 0 C7 199 307 Lowercase of Acute 0 C7 199 307 Lowercase of Circumflex 0 C7 199 307 Lowercase of Grave 0 C7 209 311 Lowercase of Grave 0 CA 202 312 Lowercase and Dieresis 0 CA 202 315 Lowercase and Dieresis 0 CA 206 32		Rom	Roman-8 Character Conversion Table (continued)	Conversion Ta	ole (continued)
C1 193 301 C2 194 302 C3 C4 195 302 C4 195 C5 C5 C5 C5 C6 C6 C7 C7 C6 C6 C7 C7 C7 C6 C6 C7	Graphic	Hexadecimal	Decimal	Octal	Description
C2 194 302 C3 C3 195 C4 196 C5 C4 196 C5 C5 C6 C6 C6 C6 C6 C7 C7 C6 C6 C7 C7 C6 C6 C7	Φ	5	193	301	Lowercase e Circumflex
C3 195 303 C4 196 C5 197 C5 197 C5 198 304 C6 C6 C7 198 305 C7 C6 C7 C6 C6 C7 C7 C6 C6 C7 C7 C6 C6 C7	ô	23	194	302	Lowercase o Circumflex
C4 196 C5 197 C6 198 304 C7 199 305 C8 200 C9 201 C9 201 C9 201 C19 3310 C10 C2 204 C2 204 C2 204 C2 204 C3 310 C4 205 C5 205 C6 204 C7 206 C6 206 C7 207 C8 207 C9	û	ొ	195	303	Lowercase u Circumflex
C5	ъ́	2	196	304	Lowercase a Acute
C6 198 306 C7 C8 C8 200 310 C8 C9 C9 C0 C8 C0 C8 C0 C9 C0 C9 C0 C0 CC C0	Φ	CS	197	305	Lowercase e Acute
C7 C8 C9 C9 C9 201 310 C9 C0 CA 202 201 311 CD CC CA 202 313 111 CD CD 203 313 111 CD CD 204 314 111 CD CD 205 315 111 CD CD 206 316 111 CD CD 207 317 111 CD CD 208 322 CD CD 208 323 CD	Ó	90	198	306	Lowercase o Acute
C8 200 310 C9 CA CO CA CO CA CO CA	ú	C2	199	307	Lowercase u Acute
CA 2002 CA 2002 CA 2002 CB 2003 CC 2004 CD 2005 CD 2006 CD 2006 CD 2006 CD 2007 CD 2009 CD 200	'n	8	200	310	Lowercase a Grave
CA 202 CB 203 312 CC 204 314 CC 205 315 CD 205 315 CF 207 317 CF 207 317 CF 208 320 CF 209 321 CF 209 321 CF 209 321 CF 209 322 CF 209 321 CF 209 322 CF 209 321 CF 209 209 209 CF 209 CF 209 209 CF 2	Þ	රි	201	311	Lowercase e Grave
CG 203 313 CC CC 204 314 CC CC 204 314 CC CC CC 204 315 CC	Q	5	202	312	Lowercase o Grave
CC 204 314 CD CD CD CD 205 315 CD CD CD CD CD S05 S16 CD CD CD S06 S16 CD	ā	CB	203	313	Lowercase u Grave
CD 206 CF 206 316 CF 207 317 D0 208 320 D1 209 D2 209 321 D3 211 D4 212 D5 213 D6 214 D7 215 D8 216 D9 217 D9 217 D0 220 D0 221 B0 333 D0 221 B0 333 B0 222 B0 333 B0 222 B0 333 B0 223 B0 333 B0	:៧	8	204	314	Lowercase a Dieresis
CE 206 316 10 10 10 10 10 10 10 10 10 10 10 10 10	:Ф	00	205	315	Lowercase e Dieresis
CF 207 317 10 10 208 320 10 208 320 10 209 321 10 209 321 10 209 322 11 322 11 323 11 10 10 10 10 10 10 10 10 10 10 10 10	Ö	빙	206	316	Lowercase o Dieresis
DØ 208 D1 209 D2 210 D3 211 D4 212 D5 213 D6 214 B0 215 B0 217 B0 217 B0 217 B0 218 B0 220 B0 221 B0 222 B0 223 B1 222 B2 335 B1 222 B2 333 B2 333 B33 333 B1 222 B2 333 B33 335 B1 223 B2 338 B2 338	:D	R	207	317	Lowercase u Dieresis
D1 209 321 D2 210 322 D3 211 323 D4 212 324 D6 214 326 D7 215 327 D8 216 330 D9 217 331 D0 220 334 E0 E0 223 338	⋖	0 О	208	320	Uppercase A Bolle
D2 210 322 010 00 00 00 00 00 00 00 00 00 00 00 00	(-	10	200	321	Lowercase i Circumflex
D3 211 323 010 010 010 010 010 010 010 010 010 01	Ø	DS	210	322	Uppercase O Oblique
D4 212 324 D5 213 325 D6 214 326 D7 215 327 D8 216 330 D9 217 331 DD DC 220 334 DD DC 221 335 DF E0 E0 224 338 DF E0 224 338 DF	Æ	D3	211	323	Uppercase AE Diphthong
D5 213 325 D6 214 326 D7 215 327 D8 216 330 D9 217 331 DB 219 333 DC 220 DC 220 334 DF 223 338 DF 224 324 DF 224 AF 22	∘rd	D4	212	324	Lowercase a Bolle
D6 214 326 10 10 10 10 10 10 10 10 10 10 10 10 10	`-	D2	213	325	Lowercase i Acute
D7 215 327 11 216 330 10 216 330 10 217 331 11 2 218 332 10 219 220 334 10 221 222 336 11 224 338 11 2 224 324 324 324 324 324 324 324 324 3	Ø	90 —	214	326	Lowercase o Oblique
D8 216 330 10 10 10 10 10 10 10 10 10 10 10 10 10	88	D7	215	327	Lowercase ae diphthong
D9 217 331 11 1	×	80	216	330	Uppercase A Dieresis
DA 218 332 0 DB 219 333 0 DC 220 334 0 DD 221 335 0 DF 222 336 0 EØ 224 338 0	_	60	217	331	Lowercase i Grave
DB 219 333 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ö	DA	218	332	Uppercase O Dieresis
DC 220 334 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	∵⊃	08	219	333	Uppercase U Dieresis
DD 221 335 1 DE 222 336 1 DF 223 337 1 EØ 224 338 1	'n	2	220	334	Uppercase E Acute
DE 222 336 1 1 1 1 1 1 1 1 1	:-	00	221	335	Lowercase i Dieresis
223 337 224 338	9	吕	222	336	Lowercase es-zet ligature
338	O	占	223	337	Uppercase O Circumflex
	À	ΕØ	224	338	Uppercase A Acute

al Octal 341 342 344 344 345 350 351 360 361 361 372 372 375 375		Rom	Roman-8 Character Conversion Table (continued)	Conversion Ta	ble (continued)
E1 225 341 E2 226 342 E3 227 343 E4 229 343 E5 229 345 E6 233 353 E7 240 350 E7 240 360 F1 241 361 F2 242 365 F4 246 365 F7 244 364 F7 246 365 F7 246 370 F8 256 373 F8 256 373	Graphic	Hexadecimal	Decimal	Octal	Description
E2 226 342 E3 227 343 E4 228 344 E5 229 345 E6 230 346 E7 231 347 E8 232 350 E9 233 351 EP 234 352 EP 236 354 EP 240 360 F1 241 361 F2 242 363 F3 363 F3 56 F4 244 364 F5 245 365 F6 246 366 F7 246 366 F7 246 366 F7 246 366 F7 246 367 F8 250 377 F8 250 377 F9 250 377 F9 250 377 F9 250 377 F9 250 377 F9 250 377	ě	Ш	225	341	Uppercase A Tilde
E3 227 343 E4 228 344 E5 229 345 E6 230 346 E7 231 347 E8 232 350 E9 233 351 EP 234 352 EP 234 353 EP 240 360 F7 244 364 F7 244 364 F7 245 365 F7 246 366 F7 246 366 F7 246 367 F8 249 371 F8 249 371 F9 250 373 FF 5 250 374	ĭŒ	E2	526	342	Lowercase a Tilde
E4 228 344 E5 229 345 E6 230 346 E7 229 345 E8 232 350 E9 233 351 EA 234 352 ED 237 353 EF 239 357 EF 240 360 F7 244 364 F7 244 364 F7 244 365 F7 246 365 F7 246 365 F7 247 367 F6 256 377 F6 256 377 F7 256 377	Ф	E3	227	343	Uppercase Eth
E5 229 345 E6 230 346 E7 231 347 E8 232 350 E9 233 351 EA 234 352 ED 237 353 EF 239 357 EF 240 360 F7 241 361 F7 245 365 F7 245 365 F7 246 366 F7 246 366 F7 246 367 F8 249 371 F8 250 373 F7 248 370 F8 250 377 F8 250 377 F9 250 377 F9 250 377	ъ	E4	228	344	Lowercase eth Icelandic
E6 230 346 E7 231 347 E8 232 350 E9 233 351 EA 234 352 ED 237 353 EF 238 353 F1 241 361 F2 242 363 F5 246 366 F7 248 370 F8 249 371 F9 250 373 FF F6 255 FF F7 255 FF F7 255 FF F7 255	` — .	E2	229	345	Uppercase I Acute
E7 231 347 E8 232 350 E9 233 351 EA 234 352 EB 235 353 EC 236 354 EF 239 357 F0 240 360 F1 241 361 F2 242 363 F3 248 370 F4 248 370 F6 249 371 F6 250 374 F6 250 375 F7 250 375 F7 250 375 F7 250 375 F7 250 375		9 <u>9</u>	230	346	
E8 232 350 E9 233 351 EA 234 351 EB 235 353 EC 236 354 EF 239 357 F0 240 360 F1 241 361 F2 242 363 F3 243 365 F4 244 364 F5 245 365 F6 246 366 F7 246 367 F8 249 371 F8 250 371 F9 250 372 F6 252 373	Ó	E7	231	347	
E9 233 351 EA 234 352 EB 235 353 EC 236 354 ED 237 355 EF 239 357 F0 240 360 F1 241 361 F2 242 363 F3 243 365 F4 244 364 F5 245 365 F6 246 366 F7 248 370 F8 249 371 F8 250 371 F9 250 371 F0 251 373 F0 254 376 F1 255 376 F2 255 376 F2 255 376 F2 256 377 F2 256 377 F2 256 377	0 i	E8	232	350	0
EA 234 352 EB 235 353 EC 236 354 EE 238 355 EF 239 357 F0 240 360 F1 241 361 F3 243 363 F5 245 365 F7 246 366 F7 246 366 F7 248 370 F8 249 371 F8 250 374 FC 255 375 FF 264 376	Ö	E3	233	351	Uppercase O Tilde
EB 235 353 EC 236 354 EE 238 355 EF 239 357 F0 240 360 F1 241 361 F3 243 363 F5 245 365 F7 245 365 F7 246 365 F7 246 367 F8 249 371 F8 250 372 FB 250 373 FB 251 373 FB 251 373	ĭO :	EA	234	352	Lowercase o Tilde
EC 236 354 ED 237 355 EE 238 355 EF 239 357 FØ 240 360 F1 241 361 F2 242 363 F3 243 364 F5 245 365 F7 245 365 F7 246 365 F7 246 365 F8 249 371 F8 250 371 FB 251 373 FC 252 374	Š	EB	235	353	Uppercase S Hacek
ED 237 355 EE 238 356 EF 239 357 FØ 240 360 F1 241 361 F2 242 363 F3 243 364 F5 245 365 F7 247 367 F8 248 370 F8 249 371 F8 250 372 F9 250 373 FG 255 374	›w	2	236	354	Lowercase s Hacek
EF 238 356 F0 240 360 F1 241 361 F2 242 363 F3 243 363 F4 244 364 F5 245 365 F7 247 367 F7 247 367 F8 248 370 F8 249 371 F8 250 372 FD 253 375 FE 254 376	Ċ		237	355	Uppercase U Acute
F0 240 360 F1 241 361 F2 242 363 F3 243 363 F4 244 364 F5 245 365 F7 247 367 F7 247 367 F8 248 370 FA 250 371 FB 251 373 FC 252 374 FC 253 375	⊹	Ш	238	356	Uppercase Y Dieresis
F0 240 360 F1 241 361 F2 242 363 F3 243 363 F4 244 364 F5 245 365 F7 247 367 F8 248 370 FA 250 371 FB 251 373 FC 252 374 FC 253 375	÷	出	239	357	Lowercase y Dieresis
F1 241 361 F2 242 362 F3 243 362 F4 244 364 F5 245 365 F7 247 367 F8 248 370 FA 250 371 FB 251 373 FC 252 374 FC 253 375	Ф	0 E	240	360	Uppercase Thorn
F2 242 362 F3 243 363 F4 244 364 F5 245 365 F6 246 366 F7 247 367 F8 248 370 FA 250 371 FC 250 374 FC 253 375 FC 254 376	a	Ε	241	361	Lowercase Thorn
F3 243 363 F4 244 364 F5 245 365 F6 246 366 F7 247 367 F8 248 370 FA 250 371 FC 251 373 FC 251 373 FC 252 374 FC 253 375	٠	F2	242	362	Lowercase Catalan Middle Dot
F4 244 364 F5 245 365 F6 246 366 F7 247 367 F8 248 370 FA 250 371 FA 250 372 FC 251 373 FC 251 373 FC 252 374 FC 253 375	1 .	£	243	363	Lowercase mu (Micro)
F5 245 365 F6 246 366 F7 247 367 F8 248 370 FA 250 371 FA 250 372 FC 251 373 FD 253 375 FE 254 376	- ;	F4	244	364	Pilcrow (Paragraph Sign)
F6 246 366 F7 247 367 F8 248 370 F9 249 371 FA 250 372 FC 252 374 FD 253 375 FE 254 376	3%	F5	245	365	Vulgar Fraction - Three Fourths
F7 247 367 F8 248 370 F9 249 371 FA 250 372 FC 252 374 FD 253 375 FE 254 376	1 ÷	94 P6	246	366	Minus Sign
F8 248 370 F9 249 371 FA 250 372 FC 252 374 FD 253 375 FE 254 376	<u> </u>	F7	247	367	Vulgar Fraction - One Fourth
F9 249 371 FA 250 372 FB 251 373 FC 252 374 FD 253 375 FE 254 376	, 'S	84	248	370	Vulgar Fraction - One Half
FA 250 372 FB 251 373 FC 252 374 FD 253 375 FE 254 376	si C	64	249	371	Female Ordinal
FB 251 373 FC 252 374 FD 253 375 FE 254 376	N E	FA	250	372	Male Ordinal
FC 252 374 FD 253 375 FE 254 376	, I	82	251	373	Left Pointing Guillemets (Quotes)
FD 253 375 FE 254 376	= =	_C	252	374	Medium Solid Box
FE 254 376	4	6	253	375	Right Pointing Guillemets (Quotes)
7770	H	世	254	376	Plus Over Minus
3//		lt.	255	377	Undefined



The following page display the basic PCL 5 escape codes for job control, page control, cursor positioning font selection, font management, vector graphics, raster graphics, printing, macros, programming, palette extensions, and HP-GL/2.

To obtain additional printer related information, please visit Konica's Web site at http://www.konicabt.com.

	Hexadecimal Value	18 45 18 26 6C ## 58 (78) 18 26 6C ## 55 (75) 18 26 6C ## 5A (7A)
	er	(120) (117) (122)
ds - Reset	Decimal Value	(x) 027 038 108 ## 088 (u) 027 038 108 ## 085 (z) 027 038 108 ## 090
Job Control Commands - Reset	Command	EgE EgR#X (x) EgR#U (u) EgR#U (z)
	Parameter	# of Decipoints (1/720")
	Function	Reset Number of Copies Long-Edge (left) Offset Registration Short-Edge (top) Offset Registration

	Page (Page Control: Page Length, Size, Orientation	, Size, Orientation			
Function	Parameter	Command	Decimal Value		Hexadecimal Value	e
Paper Source	Eject Page	E _c &@H (h)	027 038 108 048 072	(104)	1B 26 6C 30 48	(89)
	Upper Tray	E,&11H (h)	027 038 108 049 072	(104)	1B 26 6C 31 48	(89)
	Manual Feed	E _c & _l 2H (h)	027 038 108 050 072	(104)	1B 26 6C 32 48	(89)
	Manual Envelope Feed	E,&13H (h)	027 038 108 051 072	(104)	1B 26 6C 33 48	(89)
	Lower Tray	E,&14H (h)	027 038 108 052 072	(104)	1B 26 6C 34 48	(89)
Page Size	Executive	E _c &11A (a)	027 038 108 049 065	(26)	1B 26 6C 31 41	(61)
	Letter	E,&1/2A (a)	027 038 108 050 065	(6)	1B 26 6C 32 41	(61)
	Legal	E ₆ &ℓ3A (a)	027 038 108 051 065	(26)	1B 26 6C 33 41	(61)
	A4	E,&126A (a)	027 038 108 050 054 065	(26)	1B 26 6C 32 36 41	(19)
Envelopes	Monarch	E.&180A (a)	027 038 108 056 048 065	(26)	1B 26 6C 38 30 41	(61)
	COM 10	E _c &181A (a)	027 038 108 056 049 065	(26)	1B 26 6C 38 31 41	(61)
	DL DL	E _c &190A (a)	027 038 108 057 048 065	(26)	1B 26 6C 39 30 41	(61)
	C5	E ₆ &@1A (a)	027 038 108 057 049 065	(6)	1B 26 6C 39 31 41	(61)
Page Length	# of Lines	E _c &@#P (p)	027 038 108 ## 080	(112)	1B 26 6C ## 50	(20)
Orientation	Portrait	E _c &@O (0)	027 038 108 048 079	(111)	1B 26 6C 30 4F	(6F)
	Landscape	E,&(10 (o)	027 038 108 049 079	(111)	1B 26 6C 31 4F	(eF)
	Reverse Portrait	E.&1/2O (0)	027 038 108 050 079	(113)	1B 26 6C 32 4F	(eF)
	Reverse Landscape	E.&13O (0)	027 038 108 051 079	(1 1	1B 26 6C 33 4F	(eF)
Print Direction	# Degrees of Rotation		027 038 097 ## 080	(112)	1B 26 61 ## 50	(20)
	(counterclockwise,					
	90° increments only)					

	Page Cont	trol Commands - Marg	Page Control Commands - Margins and Text Length			
Function	Parameter	Command	Decimal Value		Hexadecimal Value	0
Top Margin Text Length Left Margin Right Margin Clear Horizontal Margins	# of Lines # of Lines # of Columns # of Columns	E&&#E (e) E_&&#F (f) E_&&#L (f) E_&&#L (l) E_&&&#M (m)</td><td>027 038 108 ## 069 027 038 108 ## 070 027 038 097 ## 077 027 057</td><td>(101) (102) (108) (109)</td><td>1B 26 6C ## 45 1B 26 6C ## 46 1B 26 61 ## 4C 1B 26 61 ## 4D 1B 39</td><td>(65) (6C) (6D)</td></tr><tr><td></td><td></td><td>Perforation Skip Mode</td><td>Mode</td><td></td><td></td><td></td></tr><tr><td>Perforation Skip</td><td>Disable Enable</td><td>E,&@L (1)</td><td>027 038 108 048 076 027 038 108 049 076</td><td>(108)</td><td>1B 26 6C 30 4C 1B 26 6C 31 4C</td><td>000</td></tr><tr><td></td><td></td><td>Horizontal Column Spacing</td><td>Spacing</td><td></td><td></td><td></td></tr><tr><td>Horizontal Motion Index (HMI)</td><td># of 1/120" Increments</td><td>E_c&k#H (h)</td><td>027 038 107 ## 048 72</td><td>(104)</td><td>1B 26 6B ## 4B</td><td>(89)</td></tr><tr><td></td><td></td><td>Vertical Line Spacing</td><td>acing</td><td>-</td><td></td><td></td></tr><tr><td>Vertical Motion Index (VMI)</td><td># of 1/48" Increments</td><td>E_c&@#C (c)</td><td>027 038 108 ## 048 076 (99)</td><td></td><td>1B 26 6C ## 43</td><td>(63)</td></tr><tr><td>Line Spacing (Lines per Inch)</td><td>1 line/inch 2 lines/inch 3 lines/inch 4 lines/inch 6 lines/inch 12 lines/inch 16 lines/inch 18 lines/inch 18 lines/inch 18 lines/inch 18 lines/inch</td><td>E, & v1D (d) E, & v2D (d) E, & v3D (d) E, & v4D (d) E, & v6D (d) E, & v6D (d) E, & v7D (d) E, &</td><td>027 038 108 049 068 (100) 027 038 108 050 068 (100) 027 038 108 051 068 (100) 027 038 108 052 068 (100) 027 038 108 054 068 (100) 027 038 108 049 050 068 (100) 027 038 108 050 055 068 (100) 027 038 108 050 055 068 (100) 027 038 108 050 055 068 (100) 027 038 108 050 055 068 (100) 027 038 108 052 055 068 (100)</td><td></td><td>1B 26 6C 31 44 1B 26 6C 32 44 1B 26 6C 33 44 1B 26 6C 34 44 1B 26 6C 36 44 1B 26 6C 38 44 1B 26 6C 31 32 44 1B 26 6C 31 36 44 1B 26 6C 31 36 44 1B 26 6C 31 38 44 1B 26 6C 34 38 44</td><td>2000 2000 2000 2000 2000 2000 2000 200</td></tr><tr><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td></tr></tbody></table>				

	Curso	Cursor Positioning - Vertical and Horizontal	al and Horizontal			
Function	Parameter	Command	Decimal Value		Hexadecimal Value	Φ
Vertical Position	# of Bots # of Decipoints	E _c &a#R (r) E _c *p#Y (y) E _c &a#V (v)	027 038 097 ## 082 027 042 112 ## 089 027 038 097 ## 086	(114) (121) (118)	1B 26 61 ## 52 1B 2A 70 ## 59 1B 26 61 ## 56	(72) (79) (76)
Horizontal Position	# of Columns # of Dots # of Decipoints	E,&a#C (c) E,*p#X (x) E,&a#H (h)	027 038 097 ## 067 027 042 112 ## 088 027 038 097 ## 072	(120) (104)	1B 26 61 ## 43 1B 2A 70 ## 58 1B 26 61 ## 48	(63) (78) (68)
Half Line Feed		ш°	027 061		1B 3D	
		End-of-Line Termination	nination			
Line Termination	CR=CR; LF=LF; FF=FF	E _c &k@G (g)	027 038 107 048 071	(103)	1B 26 6B 30 47	(67)
	CP=CP: LF=LF; FF=FF CP=CP: 1 E-CP: 1 E:	E _c &k1G (g)	027 038 107 049 071	(103)	1B 26 6B 31 47	(29)
	CP-CR-FF	E _c &k2G (g)	027 038 107 050 071	(103)	1B 26 6B 32 47	(29)
	FF=CR+FF	E _c &k3G (g)	027 038 107 051 071	(103)	1B 26 6B 33 47	(67)
		Push/Pop Position	ition			
Push/Pop Position	Push Pop	E _c &f0S (s) E _c &f1S (s)	027 038 102 048 083 027 038 102 049 083	(115)	1B 26 66 30 53 1B 26 66 31 53	(73) (73)

	Fon	Font Selection - Symbol Set Collection	l Set Collection			
Function	Parameter	Command	Decimal Value		Hexadecimal Value	en
Primary Symbol Set	ISO 60: Norwegian 1	E _c (ØD (d)	027 040 048 068	(100)	1B 28 30 44	(64)
	ISO 61: Norwegian 2	E _c (1D (d)	027 040 049 068	(100)	1B 28 31 44	(64)
	ISO 4: United Kingdom	_	027 040 049 069	(101)	1B 28 31 45	(65)
	ISO 25: French (obsolete)		027 040 048 070	(102)	1B 28 30 46	(99)
	ISO 69: French			(102)	1B 28 31 46	(99)
	HP German (obsolete)			(103)	1B 28 30 47	(67)
	ISO 21: German			(103)	1B 28 31 47	(67)
-	ISO 15: Italian			(10)2)	1B 28 30 49	(69)
	ISO 14: JIS ASCII	E _c (1K (k)		(107)	1B 20 30 4B	(eB)
	ISO 57: Chinese			(107)	1B 28 32 4B	(eB)
	ECMA-94 Latin 1		_	(110)	1B 28 30 4E	(9E)
	ISO 11: Swedish			(115)	1B 28 30 53	(73)
	HP Spanish (obsolete)		_	(115)	1B 28 31 53	(23)
	ISO 17: Spanish		_	(115)	1B 28 32 53	(73)
	ISO 10: Swedish	E _c (3S (s)	_	(115)	1B 28 33 53	(73)
	ISO 16: Portuguese	_		(115)	1B 28 34 53	(23)
	ISO 85: Spanish			(115)	1B 28 35 53	(73)
	ISO 6: ASCII	E _{(6S} (s)	_	(115)	1B 28 36 53	(73)
	ISO 2: IRV	•	_	(117)		(72)
	Roman8	E _c (2U (u)	027 040 050 085	(117)	1B 28 32 55	(75)
	PC-8	E _c (8U (u)	_	(117)	8	(75)
	PC-8 D/N	E _c (10U (u)		(117)	30	(75)
	PC 850		027	(117)	1B 28 31 31 55	(75)
		E _o (12U (u)	027 040 049 050 085	(117)	32	(22)
		Spacing				
Primary Spacing	Proportional			(112)	1B 28 73 31 50	(04)
	Fixed	E _c (s@P (p)	027 040 115 048 080	(112)	1B 28 73 30 50	(0/2)
		Pitch				
Primary Pitch	# of Characters/Inch	E _c (s#H (h)	027 040 115 ## 072	(104)	1B 28 73 ## 48	(89)
Set Pitch Mode	10.0			(115)	1B 26 6B 3Ø 53	(73)
	Compressed (16.5-16.7)	E _c &k2S (s)	027	(115)	1B 26 6B 32 53	(73)
	Elite (12.0)		027 038 107 052 083	(115)	1B 26 6B 34 53	(73)

		Font Selection - Point Size	oint Size			
Function	Parameter	Command	Decimal Value		Hexadecimal Value	en
Primary Height	# Points	E _c (s#V (v)	027 040 115 ## 086	(118)	1B 28 73 ## 56	(9/)
		Style				
Primary Style	Upright Italic	E _c (sØS (s) E _c (s1S (s)	027 040 115 048 083 027 040 115 049 083	(115)	1B 28 73 30 53 1B 28 73 31 53	(73)
		Stroke Weight	1			
Primary Font	Ultra Thin	E ₍ s-7B	027 040 115 -055 066	(86)	1B 28 73 -37 42	(62)
Stroke Weight	Extra Thin	E _c (s-6B	027 040 115 -054 066	(86)	1B 28 73 -36 42	(62)
	Thin	E _c (s-5B	027 040 115 -053 066	(86)	1B 28 73 -35 42	(62)
	Extra Light	E _c (s-4B	027 040 115 -052 066	(86)	1B 28 73 -34 42	(62)
	Light	E _c (s-3B	027 040 115 -051 066	(86)	1B 28 73 -33 42	(62)
	Demi Light	E _c (s-2B	027 040 115 -050 066	(86)	1B 28 73 -32 42	(62)
	Semi Light	E _c (s-1B	027 040 115 -049 066	(86)	1B 28 73 -31 42	(62)
	Medium (Normal)	E _c (s0B	027 040 115 048 066	(86)	1B 28 73 30 42	(62)
	Semi Bold	E _c (s1B	027 040 115 049 066	(86)	1B 28 73 31 42	(62)
	Demi Bold	E _c (s2B	027 040 115 050 066	(86)	1B 28 73 32 42	(62)
	Bold	E _c (s3B	027 040 115 051 066	(86)	1B 28 73 33 42	(62)
	Extra Bold	E _c (s4B	027 040 115 052 066	(86)	1B 28 73 34 42	(62)
	Black	E _c (s5B	027 040 115 053 066	(86)	1B 28 73 35 42	(62)
	Extra Black	E _c (s6B	027 040 115 054 066	(86)	1B 28 73 36 42	(62)
	Ultra Black	E _c (s7B	027 040 115 055 066	(86)	1B 28 73 37 42	(62)

		Primary Typeface	асе	
Typeface	Courier Univers LinePrinter CG Times	E _c (S3T (t) E _c (S4148T (t) E _c (S40T (t) E _c (S4101T (t)	027 040 115 051 084 (116) 027 040 115 052 084 (116) 027 040 115 048 084 (116) 027 040 115 053 084 (116)	1 B 28 73 33 54 (74) 1 B 28 73 34 54 (74) 1 B 28 73 30 54 (74) 1 B 28 73 35 54 (74)
		Font Default	-	
Font Default	Primary Font Secondary Font	E,(3@ E,)3@	027 040 051 064 027 041 051 064	1B 29 33 40
		Underline		
Underline	Enable Fixed Enable Floating Disable	E,&dØD (d) E,&d3D (d) E,d@	027 038 100 048 068 (100) 027 038 100 051 068 (100) 027 038 100 064	1 B 26 64 30 44 (64) 1 B 26 64 33 44 (64) 1 B 26 64 40
		Transparent Print	rint	
Print Data	# of Bytes	E _c &p#X[Data]	027 038 112 ## 088	1B 26 70 ## 58

	Font I	Font Management - ID and Character Control	Character Control			
Function	Parameter	Command	Decimal Value		Hexadecimal Value	0
Assign Font ID	Font ID #	E,*c#D (d)	027 042 099 ## 068	(100)	1B 2A 63 ## 44	(64)
Font and Character Control	Delete All Fonts Delete All Temporary	E,*cØF (f) E,*c1F (f)	027 042 099 048 070 027 042 099 049 070	(102)	1B 2A 63 30 46 1B 2A 63 31 46	(99)
	Delete Last Font ID	E _* c2F (f)	027 042 099 050 070	(102)	1B 2A 63 32 46	(99)
	Specified Delete Last Character	E _c *c3F (f)	027 042 099 051 070	(102)	1B 2A 63 33 46	(99)
	Specified Make Font Temporary	E _c *c4F (f)		(102)	1B 2A 63 34 46	(99)
	Make Font Permanent			(102)	1B 2A 63 35 46	(99)
	Copy/Assign the Currently Invoked Font as Temporary		027 042 099 054 070	(102)	1B 2A 63 36 46	(99)
		Font Selection by ID Number	D Number			
Select Font (with ID #)	ID # Primary Font ID # Secondary Font	E _c (#X (x) E _c)#X (x)	027 040 ## 088 027 041 ## 088	(120)	1B 28 ## 58 1B 28 ## 58	(78)
-		Soft Font Creation	ation			
Function	Parameter	Command	Decimal Value		Hexadecimal Value	9
Font Descriptor	# of Bytes	E \c#W[Data]	MO7 MA1 115 # # M87		1B 29 73 # # 57	

		Soft Font Creation	tion	
Function	Parameter	Command	Decimal Value	Hexadecimal Value
	# of Bytes	E _c)s#W[Data]	027 041 115 ## 087	1B 29 73 ## 57
Download Character	# of Bytes	E _c (s#W[Data]	027 040 115 ## 087	1B 28 73 ## 57
	Character Code # (decimal)	(e) E°,c#E	(e) 027 042 099 ## 069 (10	(101) 1B 2A 63 ## 45 (65)

		Vector Graphics	hics			
Function	Parameter	Command	Decimal Value		Hexadecimal Value	
Enter HP-GL/2 Mode	Use Previous HP-GL/2	E _c %0B	027 037 048 066	(86)	1B 25 30 42	(62)
	Use Current PCL CAP	E,%1B	027 037 049 066	(86)	1B 25 31 42	(62)
HP-GL/2 Plot Horizontal Size	Horizontal Size in Inches	E, c#K	027 042 099 ## 075	(107)	(107) 1B 2A 63 ## 4B	(eB)
HP-GL/2 Plot Vertical Size	Vertical Size in Inches	E°,c#L	027 042 099 ## 076	(108)	1B 2A 63 ## 4C	(eC)
Set Picture Frame Anchor Point	Set Anchor Point to CAP	E。*cøT	027 042 099 048 084	(116)	1B 2A 63 30 54	(74)
Picture Frame Horizontal Size	Decipoints	E° c#X	027 042 99 ## 088	(120)	1B 2A 63 ## 58	(78)
Picture Frame Vertical Size	Decipoints	E° c#Y	027 042 99 ## 089	(121)	(121) 1B 2A 63 ## 59	(62)
		Raster Graphics	hics			
Raster Resolution	75 Dots/Inch 100 Dots/Inch 150 Dots/Inch 300 Dots/Inch	E, 175R (r) E, 1100R (r) E, 1150R (r) E, 1300R (r)	027 042 116 055 053 082 027 042 116 049 048 048 082 027 042 116 049 053 048 082 027 042 116 051 048 048 082	(114) (114) (114)	1B 2A 74 37 35 52 1B 2A 74 31 30 30 52 1B 2A 74 31 35 30 52 1B 2A 74 33 30 30 52	(52) (72) (72) (72)
						7

	Gra	Graphics - Raster Graphics Presentation	nics Presentation			
Function	Parameter	Command	Decimal Value		Hexadecimal Value	
Raster Graphics Presentation	Rotate Image LaserJet Landscape Compatible	E,*rØF (f)	027 042 114 048 070 027 042 114 051 070	(102)	1B 2A 72 30 46 1B 2A 72 33 46	(99)
Start Raster Graphics	Left Raster Graphics Margin	E _c *røA (a)	027 042 114 048 065	(26)	(97) 1B 2A 72 30 41	(61)
	Current Cursor	E _c *r1A (a)	027 042 114 049 065	(26)	1B 2A 72 31 41	(61)
Raster Y Offset	# of Raster Lines of Vertical Movement	E _c *b#Y (y)	(y) 027 042 098 ## 089	(120)	(120) 1B 2A 62 ## 59	(62)
Set Raster Compression Mode	Uncoded Run-Length Encoded Tagged Image	E _* *b@M (m) E _* *b1M (m) E _* *b2M (m)	027 042 098 048 077 027 042 098 049 077 027 042 098 050 077	(109) (109) (109)	18 2A 62 30 41 18 2A 62 31 41 18 2A 62 32 41	(00)
	rile rormat Delta Row	E _c *b3M (m)	027 042 098 051 077	(100)	1B 2A 72 33 41	(GD)
Transfer Raster Data	# of Bytes	E _c *b#W[Data]	027 042 098 ## 087		1B 2A 62 ## 57	
End Raster Graphics		E _c *rB (b)	027 042 114 066	(86)	1B 2A 72 42	(62)
Raster Height	# of Raster Rows	E _c *r#T (t)	027 042 114 ## 084	(116)	(116) 1B 2A 72 ## 54	(74)
Raster Width	# of Pixels of the Specified Resolution	E _c *r#S (s)	027 042 114 ## 083	(115)	1B 2A 72 ## 53	(73)

		Print Model - Imaging	naging			
Function	Parameter	Command	Decimal Value		Hexadecimal Value	Φ
Select Pattern	Solid Black (default) Solid White HP-Defined Shading	E,*v0T E,*v1T E,*v2T	027 042 118 048 084 027 042 118 049 084 027 042 118 050 084	(116) (116) (116)	1B 2A 76 30 54 1B 2A 76 31 54 1B 2A 76 32 54	(74) (74) (74)
	Fattern HP-Defined Cross-Hatched Pattern	E,*v3T	027 042 118 051 084	(116)	1B 2A 76 33 54	(74)
Select Source Transparency Mode	Transparent Opaque	E,* v@N E,* v1N	027 042 118 048 078 027 042 118 049 078	(110)	1B 2A 76 31 42 1B 2A 76 31 42	(eE)
Select Pattern Transparency Mode	Transparent Opaque	E, *v@O E, *v1O	027 042 118 048 079 027 042 118 049 079	(111)	1B 2A 76 30 43 1B 2A 76 31 43	(6F) (6F)
		Rectangle Dimensions	ensions			
Rectangle Width (Horizontal Size)	# of Dots # of Decipoints	E _c *c#A (a) E _c *c#H (h)	027 042 099 ## 065 027 042 099 ## 072	(97)	1B 2A 63 ## 41 1B 2A 63 ## 48	(61) (68)
Rectangle Height (Vertical Size)	# of Dots # of Decipoints	$E_c^*c\#B$ (b) $E_c^*c\#V$ (v)	027 042 099 ## 066 027 042 099 ## 086	(98)	1B 2A 63 ## 42 1B 2A 63 ## 56	(62) (76)

		Print Model - Rectangular Area Fill	gular Area Fill			
Function	Parameter	Command	Decimal Value		Hexadecimal Value	
Fill Rectangular Area	Solid Black Erase (Solid White Area Fill) Shaded Fill Cross-Hatched Fill User Defined Current Pattern		027 042 099 048 080 027 042 099 049 080 027 042 099 050 080 027 042 099 050 080 027 042 099 053 080	(112) (112) (112) (112) (112)	18 2A 63 30 50 18 2A 63 31 50 18 2A 63 32 50 18 2A 63 33 50 18 2A 63 34 50 18 2A 63 35 50	(07) (07) (07) (07) (07)
Pattern ID	% of Shading or Type of Pattern	E,*c#G	027 042 099 ## 071	(103)	1B 2A 63 ## 47	(29)
Shading	2% Gray 10% Gray 15% Gray 30% Gray 45% Gray 70% Gray 90% Gray	E, c2G (9) E, c10G (9) E, c15G (9) E, c30G (9) E, c45G (9) E, c70G (9) E, c70G (9) E, c100G (9)	027 042 099 050 071 027 042 099 049 048 071 027 042 099 049 053 071 027 042 099 051 048 071 027 042 099 052 053 071 027 042 099 055 048 071 027 042 099 055 048 071	(163) (163) (163) (163) (163) (163)	18 2A 63 32 47 18 2A 63 31 30 47 18 2A 63 31 35 47 18 2A 63 33 30 47 18 2A 63 34 35 47 18 2A 63 37 30 47 18 2A 63 31 30 30 47	(67) (67) (67) (67) (67) (67)
Pattern	1 Horizontal Line 2 Vertical Lines 3 Diagonal Lines 4 Diagonal Lines 5 Square Grid 6 Diagonal Grid	E, c1G (9) E, c2G (9) E, c3G (9) E, c4G (9) E, c5G (9)	027 042 099 049 071 027 042 099 050 071 027 042 099 051 071 027 042 099 052 071 027 042 099 053 071	(103) (103) (103) (103) (103) (103)	18 2A 63 31 47 18 2A 63 32 47 18 2A 63 33 47 18 2A 63 34 47 18 2A 63 35 47 18 2A 63 36 47	(67) (67) (67) (67) (67)

		Macros				
Function	Parameter	Command	Decimal Value		Hexadecimal Value	en
Macro ID	Macro ID #	E _c &f#Y (y)	027 038 102 ## 089	(121)	1B 26 66 ## 59	(62)
Macro Control	Start Macro Definition Stop Macro Definition		027 038 102 048 088 027 038 102 049 088	(120)	1B 26 66 30 58 1B 26 66 31 58	(78)
	Executive Macro	E.&f2X (x) E.&f3X (x)	027 038 102 050 088 027 038 102 051 088	(120)	1B 26 66 32 58 1B 26 66 33 58	(78)
	Enable Overlay			(120)	1B 26 66 34 58	(78)
	Disable Overlay	E_&f5X (x)	027 038 102 053 088 027 038 102 054 088	120	1B 26 66 35 58 1B 26 66 36 58	(8/)
	Delete All Temporary		027	(120)	1B 26 66 37 58	(78)
	Macros			607	20 00 00	(20)
	Delete Macro ID		02/ 038 102 050 088	(120)	1B 26 66 39 58	(0 / (2 / (2 / (2 / (2 / (3 / (3 / (3 / (3 / (3 / (3 / (3 / (3
	Make Permanent	E _c &f10X (x)		(120)	1B 26 66 31 30 58	(82)
		Programming Hints	g Hints			
Function	Parameter	Command	Decimal Value		Hexadecimal Value	lue
Display Functions	On	E _c Y	027 090		1B 59 1B 5A	
End-of-Line Wrap	Enabled Disabled	E _c &sØC (c) E _c &s1C (c)	027 038 115 048 067 (99) 027 038 115 049 067 (99)		1B 26 73 30 43 (6	(e3)

	Dual Context Extensions	Extensions
Command	Mnemonic	Parameters
Enter PCL Mode	Esc%#A	Ø - Retain Previous PCL Cursor Position and Palette1 - Use Current HPGL Pen Position and Palette
Reset	EscE	None
Primary Font	匝	Font_ID
Secondary Font	N.	Font_ID
Scalable or Bitmapped Fonts	SB	0 - Scalable Fonts Only1 - Bitmapped Fonts Allowed
	Palette Extensions	tensions
Command	Mnemonic	Parameters
Transparency Mode	TH	0 - Off (Opaque) 1 - On (Transparent)
Number of Pens	d.V	84 84
Screened Vectors	s	[screen_type[,shading[,index]]]

	HP-GL/2 Kernel	HP-GL/2 Kernel - Vector Group
Command	Mnemonic	Parameters
Arc Absolute	AA	x_center,y_center,swewp_angle
Arc Relative Absolute Arc Three Point	AR AT	l.cnora_arigle], x_increment,y_increment,sweep_angle [.chord_angle];
Plot Absolute	PA	x_inter,y_inter,x_end,y_end [,chord_angle];
Plot Relative	PR	[x,y[x,y]];
Pen Down	PD	[x,y[x,y]];
Pen Up	PU	[x,y[,x,y]];
Relative Arc Three Point	ВТ	[x,y[x,y]];
Polyline Encoded	PE	x_incr_inter,y_incr_inter.x_incr_end,y_incr-end [,chord_angle];
		[flag[vail]coord_pair[flag[vail]coord_pair]];
	Polygor	Polygon Group
Circle	ō	radius[,chord_angle];
Fill Rectangle Absolute	RA	x_coordinate,y_cordinate;
Fill Rectangle Relative	RR	x_increment,y_increment;
Edge Rectangle Absolute	EA	x_coordinate,y_coordinate;
Edge Rectangle Relative	ER	x_increment,y_increment;
Fill Wedge	WG	radius,start_angle,sweep_angle [.chord_angle];
Edge Wedge	EW	radius,start_angle,sweep_angle [.chord_angle];
Polygon Mode	PM	polygondefinition;
Fill Polygon	FP	
Edge Polygon	EP	

	HP-GL/2 Kernel - Character Group	Character Group
Command	Mnemonic	Parameters
Select Standard Font	SS	
Select Alternate Font	SA	
Absolute Direction	ō	[run,rise];
Relative Direction	DR	[run,rise];
Absolute Character Size	S	[width,height];
Relative Character Size	SR	[width,height]
Character Slant	SL	[tangent_of_angle];
Extra Space	ES	[width [,height]]
Standard Font Definition	SD	[kind,value[,kind,value]]
Alternate Font Definition	AD	[kind,value[,kind,value]];
Character Fill Mode	CF	[fill_mode[,edge_pen]];
Label Origin	07	[position];
Label	LB	[char [char]]1bterm
Define Label Terminator	DT	[1bterm[mode]];
Character Plot	CP	[spaces,lines];
Transparent Data	<u>Д</u>	[model];
Define Variable Text Path	DV	[path,[line]];

ID-dH	L/2 Kernel - Line ar	HP-GL/2 Kernel - Line and Fill Attributes Group
Command	Mnemonic	Parameters
Line Type	LT	[line_type[,pattern_length[,mode]]];
Line Attributes	4	[kind,value[.kind,value]];
Pen Width	PW	[width[,pen]];
Pen Width Unit Selection	MU	[type];
Select Pen	SP	[ben];
Symbol Mode	SM	[char];
Fill Type	Ħ	[fill_type[,option 1[option 2]]];
Anchor Corner	AC	[x_coordinate,y_coordinate;]
Raster Fill Definition	Ä.	[index[,width,height,pen_nbrpen_nbr]];
User-Defined Line Type	UL	[index[gap 1gapn]];
	Configuration and Status Group	d Status Group
Scale	SS	[X1,x2,y2[,type[,left,bottom]]]; OR IX1,xfactor,v1,vfactor,2];
Input Window	M	[xLL,yLL,xUR,yUR];
Input P1 and P2	<u> </u>	[p1x,p1y[,p2x,p2y]];
Input Relative P1 and P2	Œ	[p1x,p1y[,p2x,p2y]];
Default Values	DF	
Initialize	Z	[0];
Rotate Coordinate System	ВО	[angle];
Advance Full Page	PG	[<u>[</u>]:
Replot	ЯВ	[n];



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