

# Customer Tips

*...for the user*

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## *PDL Reference Guide for the WorkCentre 5222/5225/5230*

### Accessing Extended Features

#### Overview

This document enables you to access the extended features of the WorkCentre 5222/5225/5230 in environments that do not have a custom print driver.

**Note:** The commands and syntax used in this document requires familiarity with either PostScript (PS) or Printer Command Language (PCL).

This document provides the Printer Description Language (PDL) commands and syntax for each feature. The following items are also included:

- A PCL table that describes the PCL features the WorkCentre supports and the syntax to use the feature.
- A PS table that describes the PS features the WorkCentre supports and the syntax to use the feature.

This document is not intended to be a complete PS or PCL reference manual. It is a guide for using the PS and PCL commands with the WorkCentre 5222/5225/5230. Refer to these sources for additional PS and PCL information:

- *PostScript Language Reference Manual, Third Edition*, ISBN 0-201-38922-8,
- *PCL5 Printer Language Technical Reference Manual*  
(<http://h20000.www2.hp.com/bc/docs/support/SupportManual/bpl13210/bpl13210.pdf>),
- *Printer Job Language Technical Reference Manual*  
(<http://h20000.www2.hp.com/bc/docs/support/SupportManual/bpl13208/bpl13208.pdf>), a Hewlett-Packard manual.

**This document applies to the stated Xerox products. It is assumed that your device is equipped with the appropriate option(s) to support the information within this document.**

## Using this Guide

- Search the Feature Table to determine whether the feature you wish to use is supported.
- Verify that the feature is supported by the platform. For example, the WorkCentre must have an optional finisher installed to use stapling commands.
- Follow across the table to find the syntax listed for the PDL examples shown. Reference the “Dependencies/Caveats” section when working with PS and/or PCL commands.

## PCL

This WorkCentre supports PCL5e and PCL XL emulations that enable the features listed in the following table.

<b>Feature</b>	<b>Description</b>
Job Name	The value for Job Name is stored for printing on the banner page.
Custom Paper Size	Customer designated paper size on which to print a job.
Media Size	The size of media on which to print a job.
Media Source	Specifies the tray to supply the job's media.
Output Location	Indicates the output bin where the completed print job is sent.
Stapling	Indicates use and location of staple(s).
Punch	Indicates use, location, and number of holes to be punched.
Booklet	This command enables you to print documents as booklets. The pages are reordered sequentially and are oriented so when folded, the paging is correct.
Quantity	Use this command to specify the number of collated sets of a document.
Resolution	Resolution used to image a job.
Bits Per Pixel	This command sets the color depth value.
Copies	Use this command to specify the number of uncollated sets of a document in a print job.
Simplex	Delivers one-sided output.
Duplex	Delivers two-sided output.
Orientation	Delivers output in landscape or portrait orientation.
Force Short Edge Feeding	Rotates orientation of job.
Job Mode	Specifies the Job Mode.
Job Type	Specifies Confidential Print or Proof Print.
Interleaving Paper (transparency separator)	Insert blank media to separate sheets of transparent media.
Job Based Accounting	Allows entry of an accounting code and user ID. To enable this feature the optional Network Accounting kit is required.
Auditron	
Delayed Print	Specify the time to print a job.
Banner Sheet	Turns on/off the banner sheet that prints at the beginning of every job.

## PCL/PJL Implementation

The following table contains the PCL feature commands and shows the syntax required to use the feature. After the table are examples of how to use these commands and examples of a PCL file.

Feature	Implementation	Values
Job Name	@PJL SET JOBNAME = "jobname-string"	Where <i>jobname-string</i> is a maximum of 32 characters
Custom Paper Size – available only for PCL	You have to specify by PCL: <ESC>&l101A	<ul style="list-style-type: none"> <li>▪ Width of Custom Paper is specified by &lt;ESC&gt;&amp;f#I where # equals decipoints (88.9 mm – 297.0 mm).</li> <li>▪ Length of Custom Paper is specified by &lt;ESC&gt;&amp;f#J where # equals decipoints (98.4 mm – 432.0 mm).</li> </ul> <p>For instance: 4.25-inch x 5.5-inch will give &lt;ESC&gt;&amp;f3060I3960J by 4.25-inch x 720 decipoints/inch = 3060 and 5.5-inch x 720 decipoints/inch = 3960.</p>

Feature	Implementation	Values
Media Size	@PJL SET PAPER = <i>value</i>	<p>Where <i>value</i> is one of the following:</p> <p>A3: A3 (297 x 420mm)  A4: A4 (210 x 297mm)  A5: A5 (180 x 210mm)  JISB4: B4 (257 x 364mm)  JISB5: B5 (182 x 257mm)  STATEMENT: Statement (5.5 x 8.5") †  EXECUTIVE: Executive (7.25 x 10.5")  LETTER: Letter (8.5 x 11")  JISEXEC: 8.5 x 13"  LEGAL: Legal (8.5 x 14")  LEDGER: Tabloid (11 x 17")  COM10: No. 10 Envelope (4.1 x 9.5")  DL: DL Envelope (110 x 220mm)  MONARCH: Monarch Envelope (3.9 x 7.5")  C5: C5 Envelope (162 x 229mm)</p> <p>CUSTOM: Custom paper</p> <p>†: Whether each paper is available depends on NV memory setting.</p> <p>The following paper sizes are only available with bi-pass tray.</p> <p>A6: A6 (105 x 148mm)  JISB6: B6 (128 x 182mm)  A4COVER: A4 Cover (223 x 297mm)  POSTCARD: Postcard (4 x 6")  50X70: 5 x 7"  8X10: 8 x 10"  SPANISH: 215 x 315mm  LETTERCOVER: 9 x 11"  11X15: 11 x 15"  JPOST: Postcard (100 x 148mm)  JPOSTD: Postcard (148 x 200mm)  TYOUKEI3: Envelope (120 x 235mm)</p>

Feature	Implementation	Values
	<ESC>&l <i>int</i> A	<p>Where <i>int</i> is one of the following:</p> <ul style="list-style-type: none"> <li>27: A3 (297 x 420mm)</li> <li>26: A4 (210 x 297mm)</li> <li>25: A5 (180 x 210mm)</li> <li>46: B4 (257 x 364mm)</li> <li>45: B5 (182 x 257mm)</li> <li>41: Statement (5.5 x 8.5") †</li> <li>1: Executive (7.25 x 10.5")</li> <li>2: Letter (8.5 x 11")</li> <li>18: 8.5 x 13"</li> <li>3: Legal (8.5 x 14")</li> <li>6: Tabloid (11 x 17")</li> <li>81: No. 10 Envelope (4.1 x 9.5")</li> <li>90: DL Envelope (110 x 220mm)</li> <li>80: Monarch Envelope (3.9 x 7.5")</li> <li>91: C5 Envelope (162 x 229mm)</li> </ul> <p>101: Custom paper</p> <p>†: Whether each paper is available depends on NV memory setting.</p> <p>The following paper sizes are only available with bi-pass tray.</p> <ul style="list-style-type: none"> <li><b>24:</b> A6 (105 x 148mm)</li> <li>44: B6 (128 x 182mm)</li> <li>200: A4 Cover (223 x 297mm)</li> <li>216: Postcard (4 x 6")</li> <li>204: 5 x 7"</li> <li>208: 8 x 10"</li> <li>43: 215 x 315mm</li> <li>201: 9 x 11"</li> <li>217: 11 x 15"</li> <li>71: Postcard (100 x 148mm)</li> <li>72: Postcard (148 x 200mm)</li> <li>218: Envelope (120 x 235mm)</li> </ul>
Media Source	@PJL SET MEDIASOURCE = <i>value</i>	<p>Where <i>value</i> is one of the following:</p> <ul style="list-style-type: none"> <li><b>TRAY1:</b> Feed from paper tray1</li> <li><b>TRAY2:</b> Tray2</li> <li><b>TRAY3:</b> Tray3</li> <li><b>TRAY4:</b> Tray4</li> <li><b>SMH:</b> Tray5 (Bypass)</li> <li><b>TRAY6:</b> Tray6</li> </ul>

Feature	Implementation	Values
	<ESC>&l int H	Where <i>int</i> is one of the following: <b>0:</b> Feed paper from default tray <b>4:</b> Tray1 <b>1:</b> Tray2 <b>5:</b> Tray3 <b>8:</b> Tray4 <b>7 or 20 =</b> Auto <b>2 or 3 or 6 =</b> Tray5 (Bypass) <b>21:</b> Tray6
Output Location	@PJL SET OUTBIN = <i>value</i>	Where <i>value</i> is one of the following: <b>UPPER:</b> Center output tray (w/o finisher) <b>MAINTRAY:</b> Center output tray (w/o finisher) <b>CENTERTRAY:</b> Center output tray (w/o finisher) <b>MAINTRAY2:</b> Center output tray (w/ B-Finisher) <b>LOWER:</b> Side Tray (facing up) (w/ side tray) <b>SIDETRAY:</b> Side Tray (facing up) (w/ side tray) <b>OUTBIN101:</b> Finisher tray (w/ finisher)
	<ESC>&l int G	Where <i>int</i> is one of the following: <b>0:</b> Automatic Selection <b>1:</b> Center output tray (w/o finisher) <b>2:</b> Side Tray (facing up) (w/ side tray) <b>4:</b> Center output tray (w finisher) <b>6:</b> Finisher tray (w/ finisher)
Stapling	@PJL SET STAPLE = <i>value</i>	Where <i>value</i> is one of the following: TOPDUAL TOPLEFT TOPRIGHT BOTTOMDUAL BOTTOMLEFT BOTTOMRIGHT LEFTDUAL RIGHTDUAL SADDLE NONE
Punch	@PJL SET PUNCH = <i>value1</i>  @PJL SET JOBATTR = "@PNHN = <i>value2</i> "	Where <i>value1</i> is one of the following: TOP RIGHT LEFT BOTTOM NONE Where <i>value2</i> is one of the following: TWO: 2 holes THREE: 3 holes FOUR: 4 holes

Feature	Implementation	Values
Booklet	@PJL SET JOBATTR = "@BKLT = <i>value1</i> "	Where <i>value1</i> is one of the following: NONEDIVIDE: Compile a booklet as long as the number of sheet does not exceed the limit MANUALDIVIDE: Divide sheets based on the specified limit manually(The number of sheets is specified with "@BKDN"). OFF: Do not compile a booklet
	@PJL SET JOBATTR = "@BKSG = <i>value2</i> "	Where <i>value2</i> is one of the following: RIGHT = Right / Bottom Bind LEFT = Left / Top Bind
	@PJL SET JOBATTR = "@BKDN = <i>int1</i> "	Where <i>int1</i> is: 1~9999 = Booklet dividing number for each set
Quantity	@PJL SET QTY = <i>int</i>	Where <i>int</i> is: 1-999 (If you use this parameter, it also indicate use collate mode automatically.)
Resolution	@PJL SET RESOLUTION = <i>value</i>	Where <i>value</i> is one of the following: 600
Bits Per Pixel	@PJL SET BITSPERPIXEL = <i>value</i>	Where <i>value</i> is one of the following: 1: 1 bit per pixel (per plane)
Copies	@PJL SET COPIES = <i>int</i>	Where <i>int</i> is: 1-999 (This parameter used for uncollated mode.)
	<ESC>&l <i>int</i> X	Where <i>int</i> is: 1-999
Simplex	@PJL SET DUPLEX = <i>value1</i>	Where <i>value1</i> is one of the following: OFF: simplex
	<ESC>&l <i>int</i> S	Where <i>int</i> is one of the following: 0: simplex
Duplex	@PJL SET DUPLEX = <i>value1</i> @PJL SET BINDING = <i>value2</i>	Where <i>value1</i> is one of the following: ON: duplex Where <i>value2</i> is one of the following: LONGEDGE SHORTEDGE ( <i>value2</i> is used combined with <i>value1</i> =ON)
	<ESC>&l <i>int</i> S	Where <i>int</i> is one of the following: 1: Duplex Long Edge Binding 2: Duplex Short Edge Binding
Orientation	@PJL SET ORIENTATION = <i>value</i>	Where <i>value</i> is one of the following: PORTRAIT LANDSCAPE

Feature	Implementation	Values
	<ESC>&l <i>int</i> O	Where <i>int</i> is one of the following: 0: Portrait 1: Landscape 2: Reverse Portrait 3: Reverse Landscape
Force short edge feeding	@PJL SET PAPERDIRECTION = <i>value</i>	Where <i>value</i> is one of the following: SEF: Short Edge Feed LEF: Long Edge Feed
Job Mode	@PJL JOB MODE = <i>value</i>	Where <i>value</i> is one of the following: PRINTER for Printer
Job Type	@PJL SET HOLD = <i>value1</i> See Example 3,4  @PJL SET HOLDKEY = " <i>four-digit string</i> "	Where <i>value1</i> is one of the following: PROOF: proof print STORE: confidential print (secure print) The HOLDKEY variable acts as a password without encryption to protect a held job. Four-digit string can be any four-digit value from 0000 to 9999. The default value is "". When "" (null) is specified, no password is required.
Interleaving Paper(Transparency Separator)	@PJL SET SLIPSHEET = <i>value</i>	Where <i>value</i> is one of the following:OFF:
Job Based Accounting Or Auditron	@PJL SET JOBATTR = "@JOAU = <i>string1</i> "  @PJL SET JOBATTR = "@JOAP = <i>string2</i> "  @PJL SET JOBATTR = "@DAID = <i>string3</i> "	Where <i>string1</i> is a maximum of 32 characters (ASCII characters in the range 20h - 7Eh are allowed Only) as job owner (Capital character & small character is distinguished)  Where <i>string2</i> is a maximum of 12 characters (ASCII characters in the range 20h - 7Eh are allowed Only) as password without encryption. It can be null (zero length string)  Where <i>string3</i> is a maximum of 32 characters (ASCII characters in the range 20h - 7Eh are allowed Only) as account ID. It can be null (zero length string)  Note: Auditron and JBA cannot be used at the same time. So the same command works for both modes.
Delay Print	@PJL SET JOBATTR = "@PRTM = <i>YYYY:MM:DD:hh:mm</i> "	<i>YYYY:MM:DD:hh:mm</i> YYYY: year(AD 2000 ~ 2099) MM: month (1 ~ 12) DD: day (1 ~ 31) hh: hour(0 ~ 23) mm: minute(0 ~ 59)



Feature	Implementation	Values
Banner Sheet	@PJM SET JOBATTR= "@BANR= <i>value</i> "  @PJM SET JOBATTR= "@BCMT= <i>comment string</i> "	Where <i>value</i> is one of the following: START: start sheet DEVICE: depend on device setting OFF: no banner sheet  Where <i>string</i> is a maximum of 255 characters (ASCII characters in the range 20h - 7Eh are allowed Only) as comment for banner.

## PJL Template

This section illustrates a standard PJL template that is used to access general print features as well as WorkCentre Product specific features. This template lists each feature and the syntax, both PCL commands and PJL, required to use these features. The next section of this document contains other examples of how to use these commands.

### Section 1 (Opening Command, Required for all files)

```
<ESC>%-12345X@PJM JOB MODE=PRINTER
```

### Section 2 (PJL Set Commands)

```
@PJM SET RESOLUTION=600  
@PJM SET COPIES=1
```

### Section 3 (PCL Code used to invoke PCL Language)

```
@PJM ENTER LANGUAGE=PCL
```

### Section 4 (PCL Data Stream or ASCII Document inserted here for Options such as selection Different Fonts, Simplex, Duplex, etc.)

```
''''''''''
```

### Section 5 (Closing Command, Required at end of Document)

```
<ESC>%-12345X@PJM EOJ
```

## Sample PJL Headers

This section contains examples of these commands in use.

### Example 1 Simple Print

```
<ESC>%-12345X@PJM JOB MODE=PRINTER<CR><LF>  
@PJM COMMENT Beginning PCL Job<CR><LF>  
@PJM SET OUTBIN=MAINTRAY<CR><LF>  
@PJM SET QTY=1<CR><LF>  
@PJM SET RESOLUTION=600<CR><LF>  
@PJM SET JOBATTR="@JOAU=John"<CR><LF>
```

### Example 2 Finishing Options (Stapling)

```
<ESC>%-12345X@PJM JOB MODE=PRINTER<CR><LF>  
@PJM SET OUTBIN=OUTBIN101<CR><LF>  
@PJM SET FINISH=ON<CR><LF>  
@PJM SET STAPLE=TOPLEFT<CR><LF>
```

### Example 3 Finishing Options (Punch)

```
<ESC>%-12345X@PJL JOB MODE=PRINTER<CR><LF>  
@PJL SET OUTBIN=OUTPIN101<CR><LF>  
@PJL SET FINISH=ON<CR><LF>  
@PJL SET PUNCH=LEFT<CR><LF>  
@PJL SET JOBATTR="@PNHN=TWO" <CR><LF>
```

### Example 4 Finishing Options (Saddle stapling and folding)

*It is an example of division in every 5 sheets.*

```
<ESC>%-12345X@PJL JOB MODE=PRINTER<CR><LF>  
@PJL SET OUTBIN=BOOKLETTRAY<CR><LF>  
@PJL SET FINISH=ON<CR><LF>  
@PJL SET STAPLE=SADDLE<CR><LF>  
@PJL SET JOBATTR="@FOLD=BIFOLDMULTIOUTSIDE" <CR><LF>  
@PJL SET JOBATTR="@BKLT=MANUALDIVIDE" <CR><LF>  
@PJL SET JOBATTR="@BKSG=LEFT" <CR><LF>  
@PJL SET JOBATTR="@BKDN=5" <CR><LF>
```

### Example 5 Finishing Options (Bi-Folding(multi page))

*It is an example of division in every 5 sheets.*

```
<ESC>%-12345X@PJL JOB MODE=PRINTER<CR><LF>  
@PJL SET OUTBIN=BOOKLETTRAY<CR><LF>  
@PJL SET FINISH=NONE<CR><LF>  
@PJL SET STAPLE=NONE <CR><LF>  
@PJL SET JOBATTR="@FOLD=BIFOLDMULTIOUTSIDE" <CR><LF>  
@PJL SET JOBATTR="@BKLT=MANUALDIVIDE" <CR><LF>  
@PJL SET JOBATTR="@BKSG=LEFT" <CR><LF>  
@PJL SET JOBATTR="@BKDN=5" <CR><LF>  
@PJL SET QTY=1<CR><LF>
```

### Example 6 Finishing Options (Bi-Folding(single page))

```
<ESC>%-12345X@PJL JOB MODE=PRINTER<CR><LF>  
@PJL SET OUTBIN=BOOKLETTRAY<CR><LF>  
@PJL SET FINISH=NONE<CR><LF>  
@PJL SET STAPLE=NONE <CR><LF>  
@PJL SET JOBATTR="@FOLD=BIFOLDINSIDE" <CR><LF>  
@PJL SET JOBATTR="@BKSG=LEFT" <CR><LF>
```

### Example 7 Proof Print

```
<ESC>%-12345X@PJL JOB MODE=PRINTER<CR><LF>  
@PJL SET HOLD=PROOF <CR><LF>  
@PJL SET USERNAME="John" <CR><LF>  
@PJL SET JOBNAME="Job1" <CR><LF>
```

### **Example 8 Confidential (Secure) Print without encryption**

Password: 1234

```
<ESC>%-12345X@PJL JOB MODE=PRINTER<CR><LF>  
@PJL SET HOLD=STORE <CR><LF>  
@PJL SET HOLDKEY="1234"<CR><LF>  
@PJL SET USERNAME="John" <CR><LF>  
@PJL SET JOBNAME="Job1" <CR><LF>
```

### **Example 9 Banner Sheet**

banner: *start sheet*

```
@PJL SET JOBATTR="@BANR=START"<CR><LF>  
@PJL SET JOBATTR="@BCMT=Banner Comment String"<CR><LF>
```

### **Example 10 Job Based Accounting & Auditron**

userID: Patricia, Password: none, accountID: none

```
<ESC>%-12345X@PJL JOB MODE=PRINTER<CR><LF>  
@PJL SET JOBATTR="@JOAU=Patricia"<CR><LF>  
@PJL SET JOBATTR="@JOAP="<CR><LF>  
@PJL SET JOBATTR="@DAID="<CR><LF>
```

## PCL/PJL Feature Dependencies/Caveats

- All PJL commands must be in the first 2,500 bytes of the job.
- To combine printer escape commands (not including PJL commands):
  - The first two characters after the <esc> MUST be the same.
  - All alpha characters MUST be lowercase, except the final terminating character.
  - The commands are read left to right. Combine commands in the order you wish them to execute.
  - For example, combine print 5 copies (<ESC>&|5X) and use letter size (<ESC>&|2A) as <ESC>&|5x2A.
- In case of duplicate commands, the last one requested takes precedence.
- The @PJL SET COPIES takes precedence over the PCL Escape Command (<ESC>& | int X>) to set copies. In general, a PJL command takes precedence over a PCL command.
- Valid media sizes for duplexing are between [88.9 x 127] and [297 x 432] (mm) or all sizes that can be fed from tray1 - 4.
- Valid media sizes for stapling include A3, A4, B4, B5, Letter (8.5 x 11"), 8.5 x 13", Legal (8.5 x 14"), Tabloid (11 x 17") and Executive (7.25 x 10.5") for Type A and Type B Finisher. For Type B Finisher, 8 x 10", 11 x 15", A4 Cover, 9 x 11" and 215 x 315mm are also valid.
- Valid media sizes for booklet stapling include A3, A4, B4, Letter (8.5 x 11"), 8.5 x 13", Legal (8.5 x 14"), Tabloid (11 x 17") for Type B Finisher.

## PCL Fonts

The following PCL fonts are resident.

The commands in the table reference a 12-point font. If you wish to use any other point size, change the 12v within the PCL Escape Command to the desired size (.25 – 999.75).

The commands listed use the default symbol set, Roman-8. To change the symbol set, you include the alternate symbol set after the first <ESC> and before the second <ESC>. Use the line printer examples as a reference.

Font Name	PCL Escape Command
Albertus Medium	<esc><esc>(s1p12v0s1b4362T
Albertus Extra Bold	<esc><esc>(s1p12v0s4b4362T
Antique Olive	<esc><esc>(s1p12v0s0b4168T
Antique Olive Bold	<esc><esc>(s1p12v0s3b4168T
Antique Olive Italic	<esc><esc>(s1p12v1s0b4168T
Arial	<esc><esc>(s1p12v0s0b16602T
Arial Bold	<esc><esc>(s1p12v0s3b16602T
Arial Italic	<esc><esc>(s1p12v1s0b16602T
Arial Bold Italic	<esc><esc>(s1p12v1s3b16602T
CG Times	<esc><esc>(s1p12v0s0b4101T
CG Times Bold	<esc><esc>(s1p12v0s3b4101T
CG Times Italic	<esc><esc>(s1p12v1s0b4101T
CG Times Bold Italic	<esc><esc>(s1p12v1s3b4101T
CG Omega	<esc><esc>(s1p12v0s0b4113T
CG Omega Bold	<esc><esc>(s1p12v0s3b4113T
CG Omega Italic	<esc><esc>(s1p12v1s0b4113T
CG Omega Bold Italic	<esc><esc>(s1p12v1s3b4113T
Clarendon Condensed	<esc><esc>(s1p12v4s3b4140T
Coronet	<esc><esc>(s1p12v1s0b4116T

Font Name	PCL Escape Command
Courier	<esc><esc>(s1p12v0s0b4099T
Courier Bold	<esc><esc>(s1p12v0s3b4099T
Courier Italic	<esc><esc>(s1p12v1s0b4099T
Courier Bold Italic	<esc><esc>(s1p12v1s3b4099T
Garamond Antiqua	<esc><esc>(s1p12v0s0b4197T
Garamond Halbfett	<esc><esc>(s1p12v0s3b4197T
Garamond Kursiv	<esc><esc>(s1p12v1s0b4197T
Garamond Kursiv Halbfett	<esc><esc>(s1p12v1s1b4197T
Line Printer (Roman-8)	<esc>(8U<esc>(s0p16.67h8.5v0s0b0T
Line Printer (Latin-1)	<esc>(0U<esc>(s0p16.67h8.5v0s0b0T
Line Printer (PC-8)	<esc>(10U<esc>(s0p16.67h8.5v0s0b0T
Line Printer (PC-8 D/N)	<esc>(11U<esc>(s0p16.67h8.5v0s0b0T
Line Printer (PC-850)	<esc>(12U<esc>(s0p16.67h8.5v0s0b0T
Line Printer (Legal)	<esc>(1U<esc>(s0p16.67h8.5v0s0b0T
Marigold	<esc><esc>(s1p12v0s0b4297T
Times New	<esc><esc>(s1p12v0s0b16901T
Times New Bold	<esc><esc>(s1p12v0s3b16901T
Times New Italic	<esc><esc>(s1p12v1s0b16901T
Times New Bold Italic	<esc><esc>(s1p12v1s3b16901T
Symbol	<esc>(19M<esc>(s1p12v0s0b16686T
Wingdings	<esc>(579L<esc>(s1p12v0s1b31402T
Univers Bold	<esc><esc>(s1p12v0s3b4148T
Univers Bold Italic	<esc><esc>(s1p12v1s3b4148T
Univers Bold Condensed	<esc><esc>(s1p12v4s3b4148T
Univers Bold Condensed Italic	<esc><esc>(s1p12v5s3b4148T
Univers Medium	<esc><esc>(s1p12v0s0b4148T
Univers Medium Italic	<esc><esc>(s1p12v1s0b4148T
Univers Medium Condensed	<esc><esc>(s1p12v4s0b4148T
Univers Medium Condensed Italic	<esc><esc>(s1p12v5s0b4148T
Letter Gothic	<esc><esc>(s1p12h0s0b4102T
Letter Gothic Italic	<esc><esc>(s1p12h1s0b4102T
Letter Gothic Bold	<esc><esc>(s1p12h0s3b4102T
Times Roman	<esc><esc>(s1p12h0s3b4102T
Times Italic	<esc><esc>(s1p12h0s3b4102T
Times Bold	<esc><esc>(s1p12h0s3b4102T
Times Bold Italic	<esc><esc>(s1p12h0s3b4102T
Helvetica	<esc><esc>(s1p12v0s0b24580T
Helvetica Oblique	<esc><esc>(s1p12v1s0b24580T
Helvetica Bold	<esc><esc>(s1p12v0s3b24580T
Helvetica Bold Oblique	<esc><esc>(s1p12v1s3b24580T
CourierPS	<esc><esc>(s0p12h0s0b24579T
CourierPS Oblique	<esc><esc>(s0p12h1s0b24579T
CourierPS Bold	<esc><esc>(s0p12h0s3b24579T
CourierPS Bold Oblique	<esc><esc>(s0p12h1s3b24579T
SymbolIPS	<esc>(19M<esc>(s1p12v0s0b45358T
Palatino Roman	<esc><esc>(s1p12v0s0b24591T
Palatino Italic	<esc><esc>(s1p12v0s0b24591T
Palatino Bold	<esc><esc>(s1p12v0s0b24591T
Palatino Bold Italic	<esc><esc>(s1p12v0s0b24591T

<b>Font Name</b>	<b>PCL Escape Command</b>
ITC Bookman Light	<esc>(<esc>(s1p12v0s-3b24623T
ITC Bookman Light Italic	<esc>(<esc>(s1p12v1s-3b24623T
ITC Bookman Demi	<esc>(<esc>(s1p12v0s2b24623T
ITC Bookman Demi Italic	<esc>(<esc>(s1p12v1s2b24623T
Helvetica Narrow	<esc>(<esc>(s1p12v4s0b24580T
Helvetica Narrow Oblique	<esc>(<esc>(s1p12v5s0b24580T
Helvetica Narrow Bold	<esc>(<esc>(s1p12v4s3b24580T
Helvetica Narrow Bold Oblique	<esc>(<esc>(s1p12v5s3b24580T
New Century Schoolbook Roman	<esc>(<esc>(s1p12v0s0b24703T
New Century Schoolbook Italic	<esc>(<esc>(s1p12v1s0b24703T
New Century Schoolbook Bold	<esc>(<esc>(s1p12v0s3b24703T
New Century Schoolbook Bold Italic	<esc>(<esc>(s1p12v1s3b24703T
ITC Avant Garde Book	<esc>(<esc>(s1p12v0s0b24607T
ITC Avant Garde Book Oblique	<esc>(<esc>(s1p12v1s0b24607T
ITC Avant Garde Demi	<esc>(<esc>(s1p12v0s2b24607T
ITC Avant Garde Demi Oblique	<esc>(<esc>(s1p12v1s2b24607T
ITC Zapf Chancery Medium Italic	<esc>(<esc>(s1p12v1s0b45099T
ITC Zapf Dingbats	<esc>(<esc>(s1p12v0s0b45101T

# PostScript

This WorkCentre supports PS 3 commands that enable the features listed in the following table.

Feature	Description
Media Size	This command specifies the size of media on which to print the job.
Media Direction	This command specifies the edge of the input medium that will enter the printing engine or imager first and across which data will be imaged. Values reflect positions relative to a canonical page in portrait orientation (width smaller than height):
Media Source	This command specifies the tray to supply the job's media.
Media Source from Bypass tray	This command indicates whether the input medium is to be fed from bypass tray.
Media Color	Use this command to indicate the color of the media used to print a job.
Media Weight	Media weight. Unit: (g/m <sup>2</sup> ) gram per square-meter
Media Class	Paper class (ex. normal, thick, recycled)
Media Type	Media types are used to distinguish the type of media a job requires.
Media Selection	Specify if you apply the strict setpagedevice rule to media selection.
Resolution	This command sets the resolution value.
Duplex	Delivers two-sided output. Landscape documents read like a calendar, and Portrait documents read like a book.
Tumble	Deliver two-sided output. (Use combine with Duplex) Landscape documents read like a book and Portrait documents read like a calendar.
Image Enhancement	Specify whether you apply edge-smoothing to output after rendering
Toner Save	Use this command to control toner consumption when printing.
Halftone Screen Selection	This command specifies the screen type.
Output Location	Indicates the output bin where the print job is sent.
Copies	The number of copies to produce, either of each page individually or of the document as a whole, depending on the value of the Collate parameter.
Collation	A flag specifying how the output is to be organized when multiple copies are requested for a multiple-page document. Output consists of page sets that are delivered together. If Collate is true, a page set consists of one copy of all pages of the document; if it is false, a page set consists of all copies of one page of the document.
Offset	This feature provides a physical offset of hard copy that distinguishes between sets or stacks within a job.

<b>Feature</b>	<b>Description</b>
Stapling	This command indicates use and location of staple(s).
Punch	This command indicates hole punches for a print job on a device with hole punch capability.
Booklet	This command enables you to print documents as small booklets. If available on your printer, you can also have your job folded or stapled.
Interleaving Paper (Transparency Separator)	Insert blank sheet between OHP sheets.
Process Color Model	Select process color model (DeviceGray, DeviceRGB, DeviceCMYK,,)
Separations	Specify whether multiple color separations are generated for each page of output.
Separation Color Names	Specify the process colorant name.
Separation Order	Specify the order of process colorant name.
Use CIE Color	Specify if you apply CIE-based color space through color conversion
Job Name	No PostScript command for this feature – use the PJI set command listed in the “PCL” section.
Job Type(Secure Print / Proof Print)	
Job Based Accounting	
Auditron	
Delay Print	
Banner Sheet	



## PostScript Implementation

The following table contains the PostScript commands and shows the syntax required to use the feature. Following the table are examples of commands and a PS file.

For more details about PostScript commands, refer to the *PostScript Language Reference Manual, Third Edition*, ISBN 0-201-37992-8.

## PostScript Print Features/Implementation

In the following table, default values are marked with an asterisk (\*).

Feature	Implementation	Values
Media Size	<</PageSize [width height]>> setpagedevice	<p>[width x height] in 1/72 inch(points)</p> <p>[842 1191] = A3 (297 x 420mm)</p> <p>[595 842] = A4 (210 x 297mm)</p> <p>[420 595] = A5 (180 x 210mm)</p> <p>[729 1032] = B4 (257 x 364mm)</p> <p>[516 729] = B5 (182 x 257mm)</p> <p>[396 612] = Statement (5.5 x 8.5") †</p> <p>[522 756] = Executive (7.25 x 10.5")</p> <p>[612 792] = Letter (8.5 x 11")</p> <p>[612 936] = 8.5 x 13"</p> <p>[612 1008] = Legal (8.5 x 14")</p> <p>[792 1224] = Tabloid (11 x 17")</p> <p>[297 684] = No. 10 Envelope (4.1 x 9.5")</p> <p>[312 624] = DL Envelope (110 x 220mm)</p> <p>[279 540] = Monarch Envelope (3.9 x 7.5")</p> <p>[459 649] = C5 Envelope (162 x 229mm)</p> <p>†: Whether each paper is available depends on NV memory setting.</p> <p>The following paper sizes are only available with bi-pass tray.</p> <p>[297 420] = A6 (105 x 148mm)</p> <p>[363 516] = B6 (128 x 182mm)</p> <p>[632 842] = A4 Cover (223 x 297mm)</p> <p>[288 432] = Postcard (4 x 6")</p> <p>[360 504] = 5 x 7"</p> <p>[576 720] = 8 x 10"</p> <p>[609 892] = 215 x 315mm</p> <p>[648 792] = 9 x 11"</p> <p>[792 1080] = 11 x 15"</p> <p>[283 420] = Postcard (100 x 148mm)</p> <p>[420 567] = Postcard (148 x 200mm)</p> <p>[340 666] = Envelope (120 x 235mm)</p> <p>[649 918] = C4 Envelope (229 x 324mm)</p>

Feature	Implementation	Values
Media Direction	<</LeadingEdge <i>int</i> >> setpagedevice	Where <i>int</i> is one of the following: 0 = Short Edge; top of canonical page 1 = Long Edge; right side of canonical page 2 = Short Edge; bottom of canonical page 3 = Long Edge; left side of canonical page null* = Auto
Media Source	<</MediaPosition <i>int</i> >> setpagedevice	Where <i>int</i> is one of the following: 0 = Tray1 1 = Tray2 2 = Tray3 3 = Tray4 4 = Tray6 null* = Auto(The values with the asterisk is the default value)
Media Source from bypass tray	<</ManualFeed <i>value</i> >> setpagedevice	Where <i>value</i> is one of the following: true = Feed paper from bypass tray false* = Feed paper from a tray other than bypass tray
Media Color	<</MediaColor ( <i>string</i> )>> setpagedevice	Where <i>string</i> is one of the following or null*: white blue yellow green pink ivory gray buff goldenrod red orange custom1 = Custom Color 1 custom2 = Custom Color 2 custom3 = Custom Color 3 custom4 = Custom Color 4 custom5 = Custom Color 5 transparent = Clear other
Media Weight	<</MediaWeight <i>real</i> >> setpagedevice	Where <i>real</i> is in g/m <sup>2</sup> (gram per square-meter) or null* (MediaWeight will not affect any tray selection.)

Feature	Implementation	Values
Media Class	<</MediaClass ( <i>string</i> )>> setpagedevice	Where <i>string</i> is one of the following or null*: stationary = Plain used = Plain Reload recycled = Recycled transparency = Transparencies thin = Lightweight (56-63g/m2) label = Labels thick1 = Heavyweight 1 (106-169g/m2) thick2 = Heavyweight 2 (170-216g/m2) user1 = Custom 1 user2 = Custom 2 user3 = Custom 3 user4 = Custom 4 user5 = Custom 5 holed = Punched letterhead = Letterhead preprinted = Pre-Printed other = Other fine thick2 = Bond envelope = Envelope
Media Type	<</MediaType ( <i>string</i> )>> setpagedevice	Where <i>string</i> is any value or null*. (MediaType will not affect any tray selection.)
Media Selection	<</DeferredMediaSelection <i>value</i> >> setpagedevice	Where <i>value</i> is one of the following: true* = Deferred media selection by output device (more powerful and flexible media selection) false = Immediate media selection by strict setpagedevice operator To select the appropriate media when using MediaClass / Staple / Punch feature, <i>value</i> must be set to true intentionally in the beginning of header.
Resolution	<</HWResolution [x y]>> setpagedevice	Where x and y are one of the following: 600 600*(dpi) 1200 1200
Duplex	<</Duplex <i>value</i> >> setpagedevice	Where <i>value</i> is one of the following: true = Duplex false* = Simplex
Tumble	<</Tumble <i>value</i> >> setpagedevice	This feature is effective only in conjunction with that Duplex is true Where <i>value</i> is one of the following: true = Tumble (Short edge binding Duplex) false* = Duplex (Long edge binding Duplex)

Feature	Implementation	Values
Image Enhancement	<</PostRenderingEnhance true /PostRenderingEnhanceDetails << /Type 32 /REValue <i>int</i> >> >> setpagedevice	Where <i>int</i> is one of the following: 0 = No image enhancement 1* = Activate image enhancement
Toner Save	<</PostRenderingEnhance true /PostRenderingEnhanceDetails << /Type 32 /TonerSaver <i>int</i> >> >> setpagedevice	Where <i>int</i> is one of the following: 0* = No toner saving 1 = Lighten output density, toner saving
Halftone Screen Selection	<</PostRenderingEnhance true /PostRenderingEnhanceDetails << /Type 32 /EngineScreen <i>int</i> >> >> setpagedevice	Where <i>int</i> is one of the following: 0 = Low frequency screen 1* = High frequency screen 2 = Compatible screen with FX standard PDL's(Low frequency) 3 = Compatible screen with FX standard PDL's(High frequency)
Output Location	<</OutputType ( <i>string</i> )>> setpagedevice	Where <i>string</i> is one of the following or null*: CENTER TRAY1: Center output tray (w/o finisher) CENTER TRAY2: Center output tray (w/ finisher type SB) SIDE TRAY: Side Tray (facing up) (w/ side tray) FINISHER TRAY: Finisher tray (w/ finisher) BOOKLET TRAY: Finisher tray (w/ booklet) Null* = Not specified
Quantity	<</NumCopies <i>value</i> >> setpagedevice	Where <i>value</i> is one of the following: integer from 1 to 9999 : number of copies null*: Not specified
Collation	<</Collate <i>value</i> >> setpagedevice	Where <i>value</i> is one of the following: true = collated false* = uncollated
Offset	<</Jog <i>int</i> >>setpagedevice	Where <i>int</i> is one of the following: 0* = Do not offset 3 = Offset at the beginning of each page [set]

Feature	Implementation	Values
Stapling (w/ finisher)	<pre>&lt;&lt;/Staple int1 /StapleDetails &lt;&lt; /Type 7 /Location int2 &gt;&gt; &gt;&gt; setpagedevice</pre>	<p>Where <i>int1</i> is one of the following:  0* = Do not staple  3 = Staple at the end of each set</p> <p>Where <i>int2</i> is one of the following:  0* = top-left-single  1 = bottom-left-single  2 = top-right-single  3 = bottom-right-single  4 = top-double  5 = bottom-double  6 = left-double  7 = right-double</p>
Punch (w/ finisher)	<pre>&lt;&lt;/Punch int1 /PunchDetails &lt;&lt; /Type 5 /Position int2 /Numholes int3 &gt;&gt; &gt;&gt; setpagedevice</pre>	<p>Where <i>int1</i> is one of the following:  0* = Do not punch  3 = Do punch by set unit.</p> <p>Where <i>int2</i> is one of the following:  0 = topside  1 = bottom side  2 = left side  3 = right side</p> <p>Where <i>int3</i> is one of the following:  2 = 2 holes  3 = 3 holes  4 = 4 holes</p>
Booklet (w/ finisher and booklet module)	<pre>&lt;&lt;/Booklet value1 /BookletDetails &lt;&lt; /Type 3 /StapleType int /PrintInside value2 /PageSet value3&gt;&gt; &gt;&gt; setpagedevice</pre>	<p>Where <i>value1</i> is one of the following:  true = Do Booklet.  false* = Do not Booklet.</p> <p>Where <i>int</i> is one of the following:  0* = Do not file on inside.  1 = File on inside.</p> <p>Where <i>value2</i> is one of the following:  true* = Print on inside.  false = Print on outside.</p> <p>This feature is effective only in conjunction with that StapleType is 0.</p> <p>Where <i>value3</i> is one of the following:  true = Integrate several page and folds.  false = Fold every page.</p> <p>This feature is effective only in conjunction with that StapleType is 0.</p>

Feature	Implementation	Values
Interleaving Paper (Transparency Separator)	<pre>&lt;&lt;/SlipSheet int1 /SlipSheetDetails &lt;&lt; /Type 1 /AutoTraySelect int2 /SheetTray int3 /MediaClass (string) &gt;&gt; &gt;&gt; setpagedevice</pre>	<p>Where <i>int1</i> is one of the following:  0* = Do not deliver interleaving paper.  4 = Deliver interleaving paper at the end of each page</p> <p>Where <i>int2</i> is one of the following:  0 = SheetTray is referred and feed interleaving paper from the SheetTray  1* = Feed interleaving paper from a tray following system setting. SheetTray is not referred.</p> <p>Where <i>int3</i> is one of the following:  0* = Feed interleaving paper from Tray1  1 = Tray2  2 = Tray3  3 = Tray4  4 = Tray6  100 = Tray5 (Bypass)</p> <p>Where <i>string</i> is same as the "Media Class" feature. It means media class for the interleaving paper.</p>
Process Color Model	<pre>&lt;&lt;/ProcessColorModel name &gt;&gt; setpagedevice</pre>	<p>Where <i>name</i> is one of the following:  /DeviceGray  /DeviceRGB (with Separations true)  /DeviceCMYK (with Separations true)  /DeviceCMY (with Separations true)  /DeviceRGBK (with Separations true)</p>
Separations	<pre>&lt;&lt;/Separations value &gt;&gt; setpagedevice</pre>	<p>Where <i>value</i> is one of the following:  true = Multiple color separations will be generated for each page of output.  false* = All colorants will be combined into a single composite page on a single sheet of physical medium.</p>
Separation Color Names	<pre>&lt;&lt;/SeparationColorNames value&gt;&gt; setpagedevice</pre>	<p>Where <i>value</i> is an array.  Legal element values are the process colorant names implied by the process color model.  Valid colorant names for each process color model are like the following in case of separation  DeviceCMYK = Cyan, Magenta, Yellow, Black  DeviceCMY = Cyan, Magenta, Yellow  DeviceRGB = Red, Green, Blue  DeviceRGBK = Red, Green, Blue, Gray  DeviceGray = Gray</p>

Feature	Implementation	Values
Separation Order	<</SeparationOrder <i>value</i> >> setpagedevice	Where <i>value</i> is an array. Legal element values are the process colorant names implied by the process color model.
Use CIE Color	<</UseCIEColor <i>value</i> >> setpagedevice	Where <i>value</i> is one of the following: true = Re-map each color from device color space to device independent's CIE-based color space false* = Do not re-map color

## Sample PostScript Headers

### Example 1 Header for Simple Print

```
%!PS
```

### Example 2 Header for Finishing

(Letter paper, duplex, 10 copies with collation, stapling with left-upper single and finisher tray for output bin)

```
%!PS
<< /DeferredMediaSelection true >> setpagedevice
<</PageSize [612 792]>>setpagedevice
<</Duplex true /Tumble false>>setpagedevice
<</OutputType (FINISHER TRAY)>>setpagedevice
<</Collate true>>setpagedevice
<</NumCopies 10>>setpagedevice
<</Staple 3 /StapleDetails << /Type 7 /Location 0 >> >>setpagedevice
```

## PostScript Feature Dependencies/Caveats

- All DSC (Document Structure Convention) comments are ignored and not interpreted.
- Valid media sizes for duplexing are between [253 x 360] and [841 x 1224] (point) or all sizes that can be fed from tray1 - 4.
- Valid media sizes for stapling include A3, A4, B4, B5, Letter (8.5 x 11"), 8.5 x 13", Legal (8.5 x 14"), Tabloid (11 x 17") and Executive (7.25 x 10.5") for Type A and Type B Finisher. For Type B Finisher, 8 x 10", 11 x 15", A4 Cover, 9 x 11" and 215 x 315mm are also valid.
- Valid media sizes for booklet stapling include A3, A4, B4, Letter (8.5 x 11"), 8.5 x 13", Legal (8.5 x 14"), Tabloid (11 x 17") for Type B Finisher.
- Valid media classes for duplex are stationary, recycled, thin, holed, letterhead, preprinted, other and user1-5 paper.
- Valid media classes for staple are stationary, used, recycled, thin, thick1, thick2, holed, letterhead, preprinted, other, fine thick2 and user1-5 paper for Type A and Type B Finisher.
- Valid media classes for booklet staple are stationary, recycled, letterhead, preprinted, other and user1-5 paper for Type B Finisher.



## PostScript Fonts

The following PostScript fonts are resident with Adobe interpreter.

Font Name	PostScript Font Name
Albertus	/AlbertusMT
Albertus Italic	/AlbertusMT-Italic
Albertus Light	/AlbertusMT-Light
Antique Olive Roman	/AntiqueOlive-Roman
Antique Olive Italic	/AntiqueOlive-Italic
Antique Olive Bold	/AntiqueOlive-Bold
Antique Olive Compact	/AntiqueOlive-Compact
Apple Chancery	/Apple-Chancery
Arial	/ArialMT
Arial Italic	/Arial-ItalicMT
Arial Bold	/Arial-BoldMT
Arial Bold Italic	/Arial-BoldItalicMT
ITC Avant Garde Gothic Book	/AvantGarde-Book
ITC Avant Garde Gothic Book Oblique	/AvantGarde-BookOblique
ITC Avant Garde Gothic Demi	/AvantGarde-Demi
ITC Avant Garde Gothic Demi Oblique	/AvantGarde-DemiOblique
Bodoni Roman	/Bodoni
Bodoni Italic	/Bodoni-Italic
Bodoni Bold	/Bodoni-Bold
Bodoni Bold Italic	/Bodoni-BoldItalic
Bodoni Poster	/Bodoni-Poster
Bodoni Poster Compressed	/Bodoni-PosterCompressed
ITC Bookman Light	/Bookman-Light
ITC Bookman Light Italic	/Bookman-LightItalic
ITC Bookman Demi	/Bookman-Demi
ITC Bookman Demi Italic	/Bookman-DemItalic
Carta	/Carta
Chicago	/Chicago
Clarendon Roman	/Clarendon
Clarendon Bold	/Clarendon-Bold
Clarendon Light	/Clarendon-Light
Cooper Black	/CooperBlack
Cooper Black Italic	/CooperBlack-Italic
Copperplate Gothic 32BC	/Copperplate-ThirtyTwoBC
Copperplate Gothic 33BC	/Copperplate-ThirtyThreeBC
Coronet	/Coronet-Regular
Courier	/Courier
Courier Oblique	/Courier-Oblique
Courier Bold	/Courier-Bold
Courier Bold Oblique	/Courier-BoldOblique
Eurostile Medium	/Eurostile
Eurostile Bold	/Eurostile-Bold
Eurostile Extended No. 2	/Eurostile-ExtendedTwo
Eurostile Bold Extended No. 2	/Eurostile-BoldExtendedTwo
Geneva	/Geneva

<b>Font Name</b>	<b>PostScript Font Name</b>
Gill Sans	/GillSans
Gill Sans Italic	/GillSans-Italic
Gill Sans Bold	/GillSans-Bold
Gill Sans Bold Italic	/GillSans-BoldItalic
Gill Sans Light	/GillSans-Light
Gill Sans Light Italic	/GillSans-LightItalic
Gill Sans Extra Bold	/GillSans-ExtraBold
Gill Sans Condensed	/GillSans-Condensed
Gill Sans Condensed Bold	/GillSans-BoldCondensed
Goudy Oldstyle	/Goudy
Goudy Oldstyle Italic	/Goudy-Italic
Goudy Bold	/Goudy-Bold
Goudy Bold Italic	/Goudy-BoldItalic
Goudy Extra Bold	/Goudy-ExtraBold
Helvetica	/Helvetica
Helvetica Oblique	/Helvetica-Oblique
Helvetica Bold	/Helvetica-Bold
Helvetica Bold Oblique	/Helvetica-BoldOblique
Helvetica Narrow	/Helvetica-Narrow
Helvetica Narrow Oblique	/Helvetica-Narrow-Oblique
Helvetica Narrow Bold	/Helvetica-Narrow-Bold
Helvetica Narrow Bold Oblique	/Helvetica-Narrow-BoldOblique
Helvetica Condensed	/Helvetica-Condensed
Helvetica Condensed Oblique	/Helvetica-Condensed-Oblique
Helvetica Condensed Bold	/Helvetica-Condensed-Bold
Helvetica Condensed Bold Oblique	/Helvetica-Condensed-BoldObl
Hoefler Text	/HoeflerText-Regular
Hoefler Text Italic	/HoeflerText-Italic
Hoefler Text Black	/HoeflerText-Black
Hoefler Text Black Italic	/HoeflerText-BlackItalic
Hoefler Ornaments	/HoeflerText-Ornaments
Joanna	/JoannaMT
Joanna Italic	/JoannaMT-Italic
Joanna Bold	/JoannaMT-Bold
Joanna Bold Italic	/JoannaMT-BoldItalic
Letter Gothic	/LetterGothic
Letter Gothic Slanted	/LetterGothic-Slanted
Letter Gothic Bold	/LetterGothic-Bold
Letter Gothic Bold Slanted	/LetterGothic-BoldSlanted
ITC Lubalin Graph Book	/LubalinGraph-Book
ITC Lubalin Graph Book Oblique	/LubalinGraph-BookOblique
ITC Lubalin Graph Demi	/LubalinGraph-Demi
ITC Lubalin Graph Demi Oblique	/LubalinGraph-DemiOblique
Marigold	/Marigold
Monaco	/Monaco
ITC Mona Lisa Recut	/MonaLisa-Recut
New Century Schoolbook Roman	/NewCenturySchlbk-Roman
New Century Schoolbook Italic	/NewCenturySchlbk-Italic

<b>Font Name</b>	<b>PostScript Font Name</b>
New Century Schoolbook Bold	/NewCenturySchlbk-Bold
New Century Schoolbook Bold Italic	/NewCenturySchlbk-BoldItalic
NewYork	/NewYork
OCR-B Letterpress M	/OCRBLetM
Optima Roman	/Optima
Optima Italic	/Optima-Italic
Optima Bold	/Optima-Bold
Optima Bold Italic	/Optima-BoldItalic
Oxford	/Oxford
Palatino Roman	/Palatino-Roman
Palatino Italic	/Palatino-Italic
Palatino Bold	/Palatino-Bold
Palatino Bold Italic	/Palatino-BoldItalic
Stempel Garamond Roman	/StempelGaramond-Roman
Stempel Garamond Italic	/StempelGaramond-Italic
Stempel Garamond Bold	/StempelGaramond-Bold
Stempel Garamond Bold Italic	/StempelGaramond-BoldItalic
Symbol	/Symbol
Tekton Regular	/Tekton
Times Roman	/Times-Roman
Times Italic	/Times-Italic
Times Bold	/Times-Bold
Times Bold Italic	/Times-BoldItalic
Times New Roman	/TimesNewRomanPSMT
Times New Roman Italic	/TimesNewRomanPS-ItalicMT
Times New Roman Bold	/TimesNewRomanPS-BoldMT
Times New Roman Bold Italic	/TimesNewRomanPS-BoldItalicMT
Univers 45 Light	/Univers-Light
Univers 45 Light Oblique	/Univers-LightOblique
Univers 55	/Univers
Univers 55 Oblique	/Univers-Oblique
Univers 65 Bold	/Univers-Bold
Univers 65 Bold Oblique	/Univers-BoldOblique
Univers 57 Condensed	/Univers-Condensed
Univers 57 Condensed Oblique	/Univers-CondensedOblique
Univers 67 Condensed Bold	/Univers-CondensedBold
Univers 67 Condensed Bold Oblique	/Univers-CondensedBoldOblique
Univers 53 Extended	/Univers-Extended
Univers 53 Extended Oblique	/Univers-ExtendedObl
Univers 63 Extended Bold	/Univers-BoldExt
Univers 63 Extended Bold Oblique	/Univers-BoldExtObl
Wingdings	/Wingdings-Regular
ITC Zapf Chancery Medium Italic	/ZapfChancery-MediumItalic
ITC Zapf Dingbat	/ZapfDingbats

## Additional Information

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<http://www.office.xerox.com/support/dctips/dctips.html>.

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