

# *PDL Reference Guide for the Xerox 4127/4112*

October 16, 2007

## Accessing Extended Features

### Overview

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This document enables you to access the extended features of the Xerox 4127/4112 and in environments that do not have a custom driver.

**NOTE:** Some of the commands and syntax used in this documents requires some 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 PostScript tables that describes the PostScript features the Xerox 4127/4110 supports and the syntax to use the feature.
- A PCL tables that describes the PCL features the Xerox 4127/4110 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 Xerox 4127/4110.

Refer to these additional reference materials PostScript Language Reference Manual, Third Edition, ISBN 0-201-38922-8, PCL5 Printer Language Technical Reference Manual, Hewlett-Packard Manual and Printer Job Language Technical Reference Manual, Hewlett-Packard Manual.

### Using this Guide

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1. Search the Feature Table to determine whether the feature you wish to use is supported.
2. Verify that the feature is supported by the platform. For example, the Xerox 4127/4110 must have the Finisher option installed to use stapling commands.
3. Following across the table to find the syntax listed for the PDL examples shown. Read the Dependencies/Caveats section.

# PostScript

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This Xerox 4127/4110 supports PS3 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

Feature	Description
	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.
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	These features are same as 'PCL/PJL Implementation'. Please refer the section to leverage the features.
Job Type (Secure Print / Proof Print)	
Job Based Accounting	
Auditron	
Delay Print	
Banner Sheet	

# PostScript Implementation

This section describes the PostScript commands required to access specific Xerox 4127/4110 features. This table lists each feature and the PostScript syntax that is required to use the feature. Following this table are some examples of how to use these commands and what the PostScript file looks like.

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

## PostScript Print Features/Implementation

\* = default value

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 (148 x 210mm) †</p> <p>[729 1032] = B4 (257 x 364mm)</p> <p>[516 729] = B5 (182 x 257mm)</p> <p>[792 1224] = Tabloid (11 x 17")</p> <p>[612 1008] = Legal (8.5 x 14")</p> <p>[612 936] = 8.5 x 13"</p> <p>[612 792] = Letter (8.5 x 11")</p> <p>[522 756] = Executive (7.25 x 10.5")</p> <p>[396 612] = Statement (5.5 x 8.5") †</p> <p>[576 720] = 8 x 10"</p> <p>[641 879] = 226 x 310mm †</p> <p>[879 1225] = 310 x 432mm</p> <p>[864 1296] = Oversized Tabloid (12 x 18") †</p> <p>[907 1274] = SRA3 (320 x 450mm) †</p> <p>[907 1383] = 12.6 x 19.2" †</p> <p>[936 1296] = 13 x 18" †</p> <p>[936 1368] = 13 x 19" †</p> <p>[553 765] = 16K (195 x 270mm) †</p> <p>[550 757] = 16K (194 x 267mm) †</p> <p>[765 1106] = 8K (270 x 390mm) †</p> <p>[757 1100] = 8K (267 x 388mm) †</p> <p>†: Whether each paper is available depends on NV memory setting.</p> <p>The following paper sizes are only available with Bypass tray.</p> <p>[297 420] = A6 (105 x 148mm)</p> <p>[363 516] = B6 (128 x 182mm)</p> <p>[792 1080] = 11 x 15"</p> <p>[288 432] = Postcard (4 x 6")</p> <p>[360 504] = 5 x 7"</p> <p>[609 892] = 215 x 315mm</p> <p>[632 842] = A4 Cover (223 x 297mm)</p> <p>[648 792] = 9 x 11"</p> <p>[283 420] = Postcard (100 x 148mm)</p> <p>[420 567] = Postcard (148 x 200mm)</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 5 = Tray7 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.)
Media Class	<</MediaClass ( <i>string</i> )>> setpagedevice	Where <i>string</i> is one of the following or null*: stationary = Plain stationary[S1] = Plain S1

Feature	Implementation	Values
		stationary side2 = Plain Reload used[S1] = Plain S1 Reload recycled = Recycled recycled[S1] = Recycled S1 thin = Lightweight (52 - 63g/m2) thick1 = Heavyweight (HW) (106 - 216g/m2) thick1[S1] = Heavyweight (HW) S1 (106 - 216g/m2) thick2 = Extra HW (X-EW) (217 - 253g/m2) thick2[S1] = Extra HW (X-EW) S1 (217 - 253g/m2) transparency = Transparency holed = Punched label1 = Labels (106 - 216g/m2) label2 = HW Labels (217 - 253g/m2) tabbed thick1 = Tab Stock (106 - 216g/m2) tabbed thick2 = HW Tab Stock (217 - 253g/m2) coating1 = Gloss (64 - 105g/m2) coating1[A] = Gloss A (106 - 135g/m2) coating1[B] = Gloss B (136 - 216g/m2) coating2 = HW Gloss (217 - 253g/m2)  user1 = Custom 1 user2 = Custom 2 user3 = Custom 3 user4 = Custom 4 user5 = Custom 5
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.
Print Mode	<</HWResolution [x y]>>	Where x and y are one of the following:

Feature	Implementation	Values
	setpagedevice	[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)
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*:  FINISHER TOP TRAY = finisher top tray (w/ D-Finisher) FINISHER TRAY = finisher tray (w/ D-Finisher) FOLDER TRAY = folder tray (w/ D-Finisher and folder module) BOOKLET TRAY = booklet tray (w/ D-Finisher and booklet module) HCS1 TOP TRAY = hcs top tray (w/ HCS) HCS1 TRAY = hcs tray (w/ HCS) BOOKLET TRAY = booklet tray (w/ C-Finisher and booklet module) null* = Not specified

Feature	Implementation	Values
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]
Stapling (w/ D-Finisher)	<</Staple <i>int1</i> /StapleDetails << /Type 7 /Location <i>int2</i> >> >> setpagedevice	Where <i>int1</i> is one of the following: 0* = Do not staple 3 = Staple at the end of each set 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
Punch (w/ D-Finisher)	<</Punch <i>int1</i> /PunchDetails << /Type 5 /Position <i>int2</i> /Numholes <i>int3</i> >> >> setpagedevice	Where <i>int1</i> is one of the following: 0* = Do not punch 3 = Do punch by set unit. Where <i>int2</i> is one of the following: 0 = topside 1 = bottom side 2 = left side 3 = right side Where <i>int3</i> is one of the following: 2 = 2 holes 3 = 3 holes 4 = 4 holes
Fold (w/ D-Finisher and folding module)	<</Fold <i>int1</i> /FoldDetails << /Type 6 /FoldType <i>int2</i> /ImageRotation <i>int3</i> /PrintInside <i>value4</i> >> >> setpagedevice	Where <i>int1</i> is one of the following: 0* = Do not fold. 4 = Fold every page.. Where <i>int2</i> is one of the following: 0* = Z Fold Half Sheets. 1 = Z Tri-Fold Single Sheets. 2 = C Tri-Fold Single Sheets. Where <i>int3</i> is one of the following: 0* = Do not rotate image. 1 = Roate image 180 degrees. This feature is effective only in

Feature	Implementation	Values
		<p>conjunction with that FoldType is 0. Where <i>value4</i> is one of the following: true* = Print on inside. false = Print on outside. This feature is effective only in conjunction with that FoldType is 1 or 2.</p>
<p>Booklet (w/ D-Finisher and booklet module)</p>	<pre>&lt;&lt;/Booklet <i>value1</i> /BookletDetails &lt;&lt; /Type 3 /StapleType <i>int</i> /PrintInside <i>value2</i> /PageSet <i>value3</i>&gt;&gt; &gt;&gt; setpagedevice</pre>	<p>Where <i>value1</i> is one of the following: true = Do Booklet. false* = Do not Booklet. Where <i>int</i> is one of the following: 0* = Do not file on inside. 1 = File on inside. Where <i>value2</i> is one of the following: true* = Print on inside. false = Print on outside. This feature is effective only in conjunction with that StapleType is 0. Where <i>value3</i> is one of the following: true = Integrate several page and folds. false = Fold every page. This feature is effective only in conjunction with that StapleType is 0.</p>
<p>Interleaving Paper (Transparency Separator)</p>	<pre>&lt;&lt;/SlipSheet <i>int1</i> /SlipSheetDetails &lt;&lt; /Type 1 /AutoTraySelect <i>int2</i> /SheetTray <i>int3</i> /MediaClass (<i>string</i>) &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 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. Where <i>int3</i> is one of the following: 0* = Feed interleaving paper from Tray1 1 = Tray2 2 = Tray3 3 = Tray4 4 = Tray6 5 = Tray7 100 = Bypass tray  Where <i>string</i> is same as the "Media Class" feature. It means media class for the interleaving paper.</p>

Feature	Implementation	Values
Process Color Model	<</ProcessColorModel <i>name</i> >> setpagedevice	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)
Separations	<</Separations <i>value</i> >> setpagedevice	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.
Separation Color Names	<</SeparationColorNames <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. 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
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

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## 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

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- All DSC (Document Structure Convention) comments are ignored and not interpreted.
- Valid media sizes for duplexing are between [396 x 516] and [935 x 1383] (point) or all sizes that can be fed from tray1 - 4.
- Valid media sizes for stapling include A3, A4, B4, B5, Tabloid (11 x 17"), Legal (8.5 x 14"), 8.5 x 13", Letter (8.5 x 11"), Executive (7.25 x 10.5"), 8 x 10", 226 x 310mm, 16K (195 x 270mm), 16K (194 x 267mm), 8K (270 x 390mm) and 8K (267 x 388mm).
- Valid media classes for duplex are stationary, recycled, user1-5, holed, thin, thick1, stationary[S1], recycled[S1] and thick1[S1].
- Valid media classes for staple are stationary, stationary side2, recycled, user1-5, holed, thin, thick1, tabbed thick1, stationary[S1], used[S1], recycled[S1] and thick1[S1].

## PostScript Fonts

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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-DemiItalic
Carta	/Carta
Chicago	/Chicago
Clarendon Roman	/Clarendon
Clarendon Bold	/Clarendon-Bold
Clarendon Light	/Clarendon-Ligh
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
Gill Sans	/GillSans
Gill Sans Italic	/GillSans-Italic
Gill Sans Bold	/GillSans-Bold

Font Name	PostScript Font Name
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
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

Font Name	PostScript Font Name
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

## PCL

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This Xerox 4127/4110 supports PCL5e and PCL XL emulations that enable the features listed in the following table.

Feature	Description
Job Name	Job Name
Custom Paper Size	This command specifies the customer designated media size.
Media Size	This command specifies the size of media on which to print the job.
Media Source	This command specifies the tray to supply the job's media.
Output Location	Indicates the output bin where the print job is sent.
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.

Folding	This command indicates to fold the print job.
Booklet	This command enables you to print documents as small booklets. The pages are reordered sequentially and are oriented so that when they are folded, the paging is correct.
Quantity	Use this command to specify the number of collated sets of a document.
Resolution	This command sets the resolution value.
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	Deliver one-sided output
Duplex	Deliver two-sided output
Orientation	Landscape or Portrait
Force Short Edge Feeding	The values indicate the feed edge to use.
Job Mode	Specify Job Mode
Job Type	You can specify Confidential Print or Proof Print
Interleaving Paper	Insert blank sheet between OHP sheets.
Job Based Accounting	
Auditron	
Delay Print	Delays printing a job until the time specified by the command.
Banner Sheet	This command turns on/off the banner sheet that prints at the beginning of every job.

## PCL/PJL Implementation

This section describes the PCL commands for specific features. This table lists each feature and the PCL syntax that is required to use the feature. Following this table are examples of how to use these commands and what the PCL file looks like.

Refer to these reference materials: PCL5 Printer Language Technical Reference Manual and Printer Job Language Technical Reference Manual, Hewlett-Packard Manual.

### PCL Print Features/Implementation

Feature	Implementation	Values
Job Name	@PJL SET JOBNAME = "jobname-string"	Where <i>jobname-string</i> is a maximum of 32 characters  Exclude ["](22H) character
Custom Paper Size – available only for PCL	Not in PJL command. You have to specify by PCL : <ESC>&I 101A	Width of Custom Paper is specified by <ESC>&f#l where # = decipoints for (100 - 330)mm.  Length of Custom Paper is specified by <ESC>&f#J where # = decipoints for (148 - 488)mm.  For instance:  4.25-inch x 5.5-inch will give <ESC>&f3060l3960J by 4.25-inch x 720 decipoints/inch = 3060 and 5.5-inch x 720 decipoints/inch = 3960.
Media Size	@PJL SET PAPER = <i>value</i>	Where <i>value</i> is one of the following: A3: A3 (297 x 420mm) † A4: A4 (210 x 297mm) A5: A5 (148 x 210mm) † JISB4: B4 (257 x 364mm) JISB5: B5 (182 x 257mm) LEDGER: Tabloid (11 x 17") LEGAL: Legal (8.5 x 14") JISEXEC: 8.5 x 13" LETTER: Letter (8.5 x 11") EXECUTIVE: Executive (7.25 x 10.5") STATEMENT: Statement (5.5 x 8.5") † 8X10: 8 x 10" SPECIALA4: 226 x 310mm † DT_SPECIALA3: 310 x 432mm 12X18: Oversized Tabloid (12 x 18") † SA3: SRA3 (320 x 450mm) † 126X192: 12.6 x 19.2" † 13X18: 13 x 18" † 13X19: 13 x 19" † 16KAIGCO: 16K (195 x 270mm) † ROC16K: 16K (194 x 267mm) † 8KAIGCO: 8K (270 x 390mm) †

Feature	Implementation	Values
		<p>ROC8K: 8K (267 x 388mm) †  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 Bypass tray.</p> <p>A6: A6 (105 x 148mm)  JISB6: B6 (128 x 182mm)  11X15: 11 x 15"  POSTCARD: Postcard (4 x 6")  50X70: 5 x 7"  SPANISH: 215 x 315mm  A4COVER: A4 Cover (223 x 297mm)  LETTERCOVER: 9 x 11"  JPOST: Postcard (100 x 148mm)  JPOSTD: Postcard (148 x 200mm)</p>
	<ESC>&l <i>int</i> A	<p>Where <i>int</i> is one of the following:</p> <p>27: A3 (297 x 420mm) †  26: A4 (210 x 297mm)  25: A5 (148 x 210mm) †  46: B4 (257 x 364mm)  45: B5 (182 x 257mm)  6: Tabloid (11 x 17")  3: Legal (8.5 x 14")  18: 8.5 x 13"  2: Letter (8.5 x 11")  1: Executive (7.25 x 10.5")  41: Statement (5.5 x 8.5") †  208: 8 x 10"  224: 226 x 310mm †  213: Oversized Tabloid (12 x 18") †  197: SRA3 (320 x 450mm) †  219: 16K (194 x 267mm) †  220: 8K (267 x 388mm) †  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 Bypass tray.</p> <p>24: A6 (105 x 148mm)  44: B6 (128 x 182mm)  217: 11 x 15"  216: Postcard (4 x 6")  204: 5 x 7"  43: 215 x 315mm  200: A4 Cover (223 x 297mm)  201: 9 x 11"  71: Postcard (100 x 148mm)  72: Postcard (148 x 200mm)</p>
Media Source	@PJL SET MEDIASOURCE	Where <i>value</i> is one of the following:

Feature	Implementation	Values
	= <i>value</i>	TRAY1: Feed from paper tray1 TRAY2: Tray2 TRAY3: Tray3 TRAY4: Tray4 SMH: Bypass tray (SMH is abbreviation of special material handler.)
	<ESC>&I <i>int</i> H	Where <i>int</i> is one of the following: 0: Feed paper from default tray 4: Tray1 1: Tray2 5: Tray3 8: Tray4 20: Auto 21: Tray6 22: Tray7 39: Tray8 2 or 3 = Bypass tray
Output Location	@PJL SET OUTBIN = <i>value</i>	Where <i>value</i> is one of the following: UPPER: Main tray (Hewlett-Packard compatible) MAINTRAY: Main tray MAINTRAY3: finisher top tray (w/ D-Finisher and HCS) OUTBIN101: Finisher tray (w/ D-Finisher) OUTBIN104: hcs tray (w/ HCS) BOOKLETRAY: booklet tray (w/ D-Finisher and booklet module) FOLDERTRAY: folder tray (w/ D-Finisher and folder module)
	<ESC>&I <i>int</i> G	Where <i>int</i> is one of the following: 0: Automatic Selection 1: Main tray 4: finisher top tray (w/ D-Finisher and HCS) 6: Finisher tray (w/ D-Finisher) 41: hcs tray (w/ HCS) 42: hcs top tray (w/ HCS)
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>	Where <i>value1</i> is one of the following: TOP RIGHT LEFT BOTTOM

Feature	Implementation	Values
	@PJL SET JOBATTR = "@PNHN = value2"	NONE Where <i>value2</i> is one of the following: TWO: 2 holes
Folding	@PJL SET JOBATTR = "@FOLD = value1"	Where <i>value1</i> is one of the following: BIFOLDINSIDE: Bi-Fold Single Sheets (Print Inside) BIFOLDMULTIOUTSIDE: Bi-Fold Multiple Sheets
Booklet	@PJL SET JOBATTR = "@BKLT = value1"	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 = value2"	Where <i>value2</i> is one of the following: RIGHT = Right / Bottom Bind LEFT = Left / Top Bind
	@PJL SET JOBATTR = "@BKDN = int1"	Where <i>int1</i> is: 1~9999 = Booklet dividing number for each set
Quantity	@PJL SET QTY = int	Where <i>int</i> is: 1-999 (If you use this parameter, it also indicate use collate mode automatically.)
Resolution	@PJL SET RESOLUTION = value	Where <i>value</i> is one of the following: 600
Bits Per Pixel	@PJL SET BITSPERPIXEL = value	Where <i>value</i> is one of the following: 1: 1 bit per pixel (per plane)
Copies	@PJL SET COPIES = int	Where <i>int</i> is: 1-999 (This parameter used for uncollated mode.)
	<ESC>&I int X	Where <i>int</i> is: 1-999
Simplex	@PJL SET DUPLEX = value1	Where <i>value1</i> is one of the following: OFF: simplex
	<ESC>&I int S	Where <i>int</i> is one of the following: 0: simplex

Feature	Implementation	Values
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 value1=ON)
	<ESC>&I <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
	<ESC>&I <i>int</i> 0	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 (Secure Print / Proof Print)	@PJL SET HOLD = <i>value1</i> See Example 3  @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: no slipsheet BLANK: blank slipsheet COPY: imaged slipsheet
Job Based Accounting	@PJL SET JOBATTR = " <i>string1</i> "  @PJL SET JOBATTR = " <i>string2</i> "  @PJL SET JOBATTR =	Where <i>string1</i> is a maximum of 32 character (ASCII characters in the range 20h - 7Eh are allowedOnly ) as job owner (Capital character & small character is distinguished)  Where <i>string2</i> is a maximum of 12 character (ASCII characters in the range 20h - 7Eh are

Feature	Implementation	Values
	"@DAID = <i>string3</i> "	<p>allowedOnly) as password without encryption. It can be null (zero length string)</p> <p>Where <i>string3</i> is a maximum of 32 character (ASCII characters in the range 20h - 7Eh are allowedOnly) as account ID. It can be null (zero length string)</p> <p>Note:Auditron and JBA cannot be used at the same time. So the same command works for both modes.</p>
Auditron	<p>@PJL SET JOBATTR = "@JOAU = <i>string1</i>"</p> <p>@PJL SET JOBATTR = "@JOAP = <i>string2</i>"</p> <p>@PJL SET JOBATTR = "@DAID = <i>string3</i>"</p>	<p>Where <i>string1</i> is a maximum of 32 character (ASCII characters in the range 20h - 7Eh are allowedOnly ) as job owner (Capital character &amp; small character is distinguished)</p> <p>Where <i>string2</i> is a maximum of 12 character (ASCII characters in the range 20h - 7Eh are allowedOnly) as password without encryption. It can be null (zero length string)</p> <p>Where <i>string3</i> is a maximum of 32 character (ASCII characters in the range 20h - 7Eh are allowedOnly) as account ID. It can be null (zero length string)</p> <p>Note:Auditron and JBA cannot be used at the same time. So the same command works for both modes.</p>
Delay Print	@PJL SET JOBATTR = "@PRTM = <i>YYYY:MM:DD:hh:mm</i> "	<p><i>YYYY:MM:DD:hh:mm</i></p> <p><i>YYYY</i>: year(AD 2000~2099) <i>MM</i>: month (1~12) <i>DD</i>: day (1~31) <i>hh</i>: hour(0~23) <i>mm</i>: minute(0~59)</p>
Banner Sheet	<p>@PJL SET JOBATTR= "@BANR=<i>value</i>"</p> <p>@PJL SET JOBATTR= "@BCMT=<i>comment string</i>"</p>	<p>Where <i>value</i> is one of the following: START: start sheet DEVICE: depend on device setting OFF: no banner sheet</p> <p>Where <i>string</i> is a maximum of 255 character ( ASCII characters in the range 20h - 7Eh are allowedOnly) as comment for banner.</p>

# PJL Template

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This section illustrates a standard PJL template that is used to access general print features as well as Xerox 4127/4110 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@PJL JOB MODE=PRINTER
```

## Section 2 (PJL Set Commands)

```
@PJL SET RESOLUTION=600
```

```
@PJL SET COPIES=1
```

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

```
@PJL 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@PJL EOJ
```

# Sample PJL Headers

---

## Example 1 Simple Print

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

## Example 2 Finishing Options (Stapling)

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

```
@PJJ SET JOBATTR="@FOLD=BIFOLDMULTIOUTSIDE"<CR><LF>
@PJJ SET JOBATTR="@BKLT=MANUALDIVIDE"<CR><LF>
@PJJ SET JOBATTR="@BKSG=LEFT"<CR><LF>
@PJJ SET JOBATTR="@BKDN=5"<CR><LF>
@PJJ SET QTY=1<CR><LF>
```

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

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

### **Example 7 Proof Print**

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

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

*Password: 1234*

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

### **Example 9 Banner Sheet**

*banner : start sheet*

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

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

*userID:Patricia, Password: none, accountID: none*

```
<ESC>%-12345X@PJJ JOB MODE=PRINTER<CR><LF>
@PJJ SET JOBATTR="@JOAU=Patricia"<CR><LF>
@PJJ SET JOBATTR="@JOAP="<CR><LF>
@PJJ 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 [139 x 182] and [330 x 488] (mm) or all sizes that can be fed from tray1 - 4.
- Valid media sizes for stapling include A3, A4, B4, B5, Tabloid (11 x 17"), Legal (8.5 x 14"), 8.5 x 13", Letter (8.5 x 11"), Executive (7.25 x 10.5"), 8 x 10", 226 x 310mm, 16K (195 x 270mm), 16K (194 x 267mm), 8K (270 x 390mm) and 8K (267 x 388mm).

# PCL Fonts

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The following PCL fonts are resident.

Each of these commands references a 12-point font. If you wish to use any other point size, change the 12v 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
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

Font Name	PCL Escape Command
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
SymbolPS	<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
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