

PDL Reference Guide for the Phaser 6510/WC 6515 Series

Customer Tip



Accessing Extended Features

Overview

This document enables you to access the extended features of the Phaser 6510/ WC6515 in environments that do not have a custom driver.

Note: Some of the commands and syntax used in this document requires familiarity with either Printer Job Language commands (PJM) or Printer Command Language (PCL).

This document provides the PJM or PCL commands and syntax for each feature.

This document is not intended to be a complete PJM or PCL reference manual:

It is a guide for using the PJM and PCL commands with Phaser 6510/ WC6515.

Using this Guide

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 Phaser 6510/ WC6515 must have the Finisher installed to use stapling commands.
3. Follow across the table to find the syntax listed for the PDL examples.
4. Read the Dependencies/Caveats section.

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The Phaser 6510/WorkCentre 6515 supports PCL5 emulations that enable the features listed in the following table.

Feature	Description
Job Name	Job Name.
Custom Paper Size	This command specifies the custom 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 job is sent.
Quantity	Use this command to specify the number of collated sets of a document.
Resolution	This command sets the resolution 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
Job Mode	Opening Command, Required for all files
Job Type (Secure Print / Proof Print / Box Print)	You can specify Confidential(Secure) Print or Proof Print
Job Based Accounting	This command is used to pass accounting codes to a printer enabled for Job Based Accounting.
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 or PJL commands for specific features. This table lists each feature and the PCL or PJL 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.

Feature	Implementation	Values
Job Name	@PJL SET JOBNAME = "jobname-string"	Where <i>job name-string</i> is a maximum of 32 characters Exclude ["](22H) character
Custom Paper Size	Not in PJL command. You have to specify by PCL: <ESC>&1101A	Width of Custom Paper is specified by <ESC>&f#l where # = decipoints for (76.2 – 215.9) mm. Length of Custom Paper is specified by <ESC>&f#J where # = decipoints for (127 – 355.6) 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: A6 = A6 (105 x 148mm) A5 = A5 (148 x 210mm) A4 = A4 (210 x 297mm) JISB5 = B5 (182 x 257mm) STATEMENT = Statement (5.5 x 8.5") EXECUTIVE = Executive (7.25 x 10.5") 8X10 = 8x10(8 x 10") LETTER = Letter (8.5 x 11") SPANISH = 215x315mm (8.46x12.4") † JISEXEC = 8.5 x 13" LEGAL = Legal (8.5 x 14") POSTCARD = Postcard (4 x 6") 50X70 = 5 x 7" COM10 = No. 10 Envelope (4.1 x 9.5") MONARCH = Monarch Envelope (3.9 x 7.5") DL = DL Envelope (110 x 220mm) C5 = C5 Envelope (162 x 229mm) † YOUKEI2 = C6 Envelope (114 x 162mm) † †: Whether each paper is available depends on NV memory setting. The following paper sizes are only available with Bypass tray. JISB6 = B6 (128 x 182mm)
	<ESC>&1 int A	Where <i>value</i> is one of the following: 24 = A6 (105 x 148mm)

Feature	Implementation	Values
		25 = A5 (148 x 210mm) 26 = A4 (210 x 297mm) 45 = B5 (182 x 257mm) 41 = Statement (5.5 x 8.5") 1 = Executive (7.25 x 10.5") 208 = 8 x 10" 2 = Letter (8.5 x 11") 43 = 215x315mm (8.46x12.4") 18 = 8.5 x 13" 3 = Legal (8.5 x 14") 216 = Postcard (4 x 6") 204 = 5 x 7" 81 = No. 10 Envelope (4.1 x 9.5") 80 = Monarch Envelope (3.9 x 7.5") 90 = DL Envelope (110 x 220mm) † 91 = C5 Envelope (162 x 229mm) † †: Whether each paper is available depends on NV memory setting. The following paper sizes are only available with Bypass tray. 44 = B6 (128 x 182mm)
Media Source	@PJM SET MEDIASOURCE = <i>value</i>	Where <i>value</i> is one of the following: TRAY1: Feed from paper tray1 TRAY2: Tray2 TRAY5: Tray5 (Bypass)
	<ESC>&1 <i>int</i> H	Where <i>int</i> is one of the following: 0: Feed paper from default tray 4: Tray1 1: Tray2 20: Auto 2 or 3: Tray5 (Bypass)
Output Location	@PJM SET OUTBIN = <i>value</i>	Where <i>value</i> is one of the following: UPPER: Main tray (Hewlett-Packard compatible) MAINTRAY: Main tray
	<ESC>&1 <i>int</i> G	Where <i>int</i> is one of the following: 0: Automatic Selection 1: Main tray
Quantity	@PJM 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	@PJM SET RESOLUTION = <i>value</i>	Where <i>value</i> is one of the following: 600 1200
Copies	@PJM SET COPIES = <i>int</i>	Where <i>int</i> is: 1-999 (This parameter used for uncollated mode.)
	<ESC>&1 <i>int</i> X	Where <i>int</i> is: 1-999

Feature	Implementation	Values
Simplex	@PJL SET DUPLEX = <i>value1</i>	Where <i>value1</i> is one of the following: OFF: simplex
	<ESC>&1 <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>&1 <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>&1 <i>int</i> 0	Where <i>int</i> is one of the following: 0: Portrait 1: Landscape 2: Reverse Portrait 3: Reverse Landscape
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)	@PJL SET HOLD = <i>value1</i> @PJL SET HOLDKEY = "string"	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. string is a maximum of 16 character (legal value 20H-FFH) as password without encryption. The default value is "". When ""(empty string) is specified, no password is required.
Job Based Accounting	@PJL SET JOBATTR = "@JOAU = <i>string1</i> "	Where <i>string1</i> is a maximum of 32 character (legal value: 20H-7EH) as job owner (Capital character & small character is distinguished)
	@PJL SET JOBATTR = "@JOAP = <i>string2</i> "	Where <i>string2</i> is a maximum of 12 character (legal value: 20H-7EH) as password without encryption. It can be null (zero length string)
	@PJL SET JOBATTR = "@DAID = <i>string3</i> "	Where <i>string3</i> is a maximum of 32 character (legal value 20H-7EH) as account ID. It can be null (zero

Feature	Implementation	Values
		length string)
Banner Sheet	@PJM SET JOBATTR= "@BANR= <i>value</i> "	Where <i>value</i> is one of the following: START: start sheet DEVICE: depend on device setting OFF: no banner sheet

PCL/PJM Feature Dependencies/Caveats

- All PJM commands must be in the first 2,500 bytes of the job.
- To combine printer escape commands (not including PJM 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>&l5X) and use letter size (<ESC>&l2A) as <ESC>&l5x2A.
- In case of duplicate commands, the last one requested takes precedence.
- The @PJM SET COPIES takes precedence over the PCL Escape Command (<ESC>&l int X) to set copies. In general, a PJM command takes precedence over a PCL command.
- Valid media sizes for duplexing are between 139.7 x 210.0mm and 215.9x 355.6mm.

Examples

PJM Template

This section illustrates a standard PJM template that is used to access general print features as well as Phaser 6510/WorkCentre 6515 Product specific features. This template lists each feature and the syntax, both PCL commands and PJM, required to use these features.

Section 1 (Opening Command, Required for all files)

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

Section 2 (PJM 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 selecting Different Fonts, Simplex, Duplex, etc.)

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

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

Sample PJI Headers

Example 1 - Simple Print

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

Example 2 - Proof Print

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

Example 3 - Confidential (Secure) Print without encryption

Password: 1234

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

Example 4 - Banner Sheet

Banner: start sheet

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

Example 5 - Job Based Accounting & Auditron

userID: Patricia, Password: none, accountID: none

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

Supported PostScript Fonts

The following PostScript fonts are resident with Adobe interpreter.

Albertus
Albertus Italic
Albertus Light
Antique Olive Roman
Antique Olive Italic
Antique Olive Bold
Antique Olive Compact
Apple Chancery
Arial
Arial Italic
Arial Bold
Arial Bold Italic
ITC Avant Garde Gothic Book
ITC Avant Garde Gothic Book Oblique
ITC Avant Garde Gothic Demi
ITC Avant Garde Gothic Demi Oblique
Bodoni Roman
Bodoni Italic
Bodoni Bold
Bodoni Bold Italic
Bodoni Poster
Bodoni Poster Compressed
ITC Bookman Light
ITC Bookman Light Italic
ITC Bookman Demi
ITC Bookman Demi Italic
Carta
Chicago
Clarendon Roman
Clarendon Bold
Clarendon Light
Cooper Black
Cooper Black Italic
Copperplate Gothic 32BC
Copperplate Gothic 33BC
Coronet
Courier
Courier Oblique
Courier Bold
Courier Bold Oblique
Eurostile Medium
Eurostile Bold
Eurostile Extended No. 2
Eurostile Bold Extended No. 2
Geneva
Gill Sans
Gill Sans Italic
Gill Sans Bold
Gill Sans Bold Italic
Gill Sans Light
Gill Sans Light Italic
Gill Sans Extra Bold
Gill Sans Condensed
Gill Sans Condensed Bold
Goudy Oldstyle
Goudy Oldstyle Italic
Goudy Bold
Goudy Bold Italic
Goudy Extra Bold

Helvetica
Helvetica Oblique
Helvetica Bold
Helvetica Bold Oblique
Helvetica Narrow
Helvetica Narrow Oblique
Helvetica Narrow Bold
Helvetica Narrow Bold Oblique
Helvetica Condensed
Helvetica Condensed Oblique
Helvetica Condensed Bold
Helvetica Condensed Bold Oblique
Hoefler Text
Hoefler Text Italic
Hoefler Text Black
Hoefler Text Black Italic
Hoefler Ornaments
Joanna
Joanna Italic
Joanna Bold
Joanna Bold Italic
Letter Gothic
Letter Gothic Slanted
Letter Gothic Bold
Letter Gothic Bold Slanted
ITC Lubalin Graph Book
ITC Lubalin Graph Book Oblique
ITC Lubalin Graph Demi
ITC Lubalin Graph Demi Oblique
Marigold
Monaco
ITC Mona Lisa Recut
New Century Schoolbook Roman
New Century Schoolbook Italic
New Century Schoolbook Bold
New Century Schoolbook Bold Italic
New York
OCR-B Letterpress M
Optima Roman
Optima Italic
Optima Bold
Optima Bold Italic
Oxford
Palatino Roman
Palatino Italic
Palatino Bold
Palatino Bold Italic
Stempel Garamond Roman
Stempel Garamond Italic
Stempel Garamond Bold
Stempel Garamond Bold Italic
Symbol
Tekton Regular
Times Roman
Times Italic
Times Bold
Times Bold Italic
Times New Roman
Times New Roman Italic
Times New Roman Bold
Times New Roman Bold Italic

Univers 45 Light
Univers 45 Light Oblique
Univers 55
Univers 55 Oblique
Univers 65 Bold
Univers 65 Bold Oblique
Univers 57 Condensed

Univers 53 Extended
Univers 53 Extended Oblique
Univers 63 Extended Bold
Univers 63 Extended Bold Oblique
Wingdings
ITC Zapf Chancery Medium Italic
ITC Zapf Dingbat

Univers 57 Condensed Oblique
Univers 67 Condensed Bold
Univers 67 Condensed Bold Oblique

Supported PCL5 Fonts

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>.

Font Name	PCL Escape Command
Albertus Medium	<esc><esc>(s1p12v0s1b4362T
Albertus Extra Bold	<esc><esc>(s1p12v0s4b4362T
	<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
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

Font Name	PCL Escape Command
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

Additional Information

You can reach Xerox Customer Support at <http://www.xerox.com> or by calling Xerox Support in your country.

Xerox Customer Support welcomes feedback on all documentation - send feedback via e-mail to: USA.DSSC.Doc.Feedback@xerox.com.

Other Tips about Xerox multifunction devices are available at the following URL: <http://www.office.xerox.com/support/dctips/dctips.html>.

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