SOFTWARE CHANGE NOTICE   PC Printing

PRODUCT VERSION: WP5.0 Printer Disks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23

MASTER DATED: May 25, 1989

PRINTER NAME	DEFINITION	DISK
*IBM PC Convertible Printer	NEW - Printer Definition.	Printer 8
*Juki 6100	NEW - Printer Definition.	Printer 8

This driver replaces the *Juki 6100 previously on the Printer 8 disk. It supports more fonts.

*Panasonic KX-P1180 (C-ROM)	NEW - Printer Definition.	Printer 8

This new driver is for use with Panasonic KX-P1180 printers with ROM version C. This ROM version will reposition the print head for every word printed when using the regular Panasonic KX-P1180/1191 driver. This driver uses spaces for horizontal positioning and will print smoothly. There is a bug with the relative horizontal motion command on Version C of this printer.

*Star SR-10/15	NEW - Printer Definition.	Printer 8
Brother HL-8e	NEW - Printer Definition.	Printer 1
Brother M-1109	NEW - Printer Definition.	Printer 12
Brother M-2518	NEW - Printer Definition.	Printer 12
Canon AP110	NEW - Printer Definition.	Printer 9
Dataproducts LZR-2630	NEW - Printer Definition.	Printer 22
Digital LNO3R (Scriptprinter)	NEW - Printer Definition.	Printer 21
Digital PrintServer 40	NEW - Printer Definition.	Printer 21
NEC Spinwriter ELF-350	NEW - Printer Definition.	Printer 9
Panasonic KX-P1524 (Additional)	NEW - Printer Definition.	Printer 20

Supports the following optional font cartridges: KX-P60 Bold PS; KX-P61 Roman; KX-P62 Prestige; KX-P64 Sans Serif; KX-P65 Orator; KX-P66 Script; KX-P67 OCR-B

PostScript (Additional 2)	NEW - Printer Definition.	Printer 23

Additional Adobe fonts. A new PostScript disk had to be made because there was no more room on the print 6 disk. This disk provides support for the internal 35 fonts as well as Adobe font libraries 75-85. Added the following fonts: Antique Olive Black, Antique Olive Bold, Antique Olive Italic, Antique Olive Light, Antique Olive Roman, Avenir 35 Light, Avenir 35 Light Oblique, Avenir 45 Book, Avenir 45 Book Oblique, Avenir 55 Oblique, Avenir 55 Roman, Avenir 65 Medium, Avenir 65 Medium Oblique, Avenir 85 Heavy, Avenir 85 Heavy Oblique, Avenir 95 Black, Avenir 95 Black Oblique, Concorde Bold, Concorde Bold Italic, Concorde Italic, Concorde Roman, Garamond 3, Garamond 3 Bold, Garamond 3 Bold Italic, Garamond 3 Italic, Gothic 13, Life Bold, Life Italic, Life Roman, Stempel Garamond Bold, Stempel Garamond Bold Italic, Stempel Garamond Italic, Stempel Garamond Roman, Tempo Heavy Condensed, Tempo Heavy Condensed Italic, Universal Greek w. Math Pi 169, Universal News w. Commercial Pi 97, Walbaum Bold, Walbaum Bold Italic, Walbaum Italic, Walbaum Roman, Weiss, Weiss Bold, Weiss ExtraBold, and Weiss Italic.

Sharp JX-730	NEW - Printer Definition.	Printer 9
Talaris 1590-T (Additional)	NEW - Printer Definition.	Printer 22

Supports font cartridges 98(Swiss), 99(Dutch), and 100(Century SchoolBook). The basic Talaris driver will remain on WPRINT4.ALL

White-writer Printer (HP LJ II mode)	NEW - Printer Definition.	Printer 10
White-writer Printer (HP LJ+ mode)	NEW - Printer Definition.	Printer 10
Xerox 4045/2700 II/3700	NEW - Printer Definition.	Printer 4
Brother Single/Dual/Envelope	NEW - Sheet Feeder Definition.	Printer 2
NEC 3510/3530 Single/Dual	NEW - Sheet Feeder Definition.	Printer 9
*Epson LQ-800 Enhanced	DELETED - Printer Definition.	Printer 8

Deleted the driver because we have a supported driver.

PRINTER NAME	DEFINITION	DISK

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*Fujitsu DL3400   DELETED - Printer Definition.   Printer 8
   Deleted the driver because we have a supported driver.

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*Tandy DWP 230/520   DELETED - Printer Definition.   Printer 8
   Deleted the driver because we have a supported driver.

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*Toshiba P1351   DELETED - Printer Definition.   Printer 8
   Deleted the driver because we have a supported driver.

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*Toshiba P321SL (USA)   DELETED - Printer Definition.   Printer 8
   Deleted the driver because we have a supported driver.

Ziyad PaperJet 400   DELETED - Sheet Feeder Definition.   Printer 1
   Removed the Ziad PaperJet 400, BDT 3 bin, and BDT 6 bin sheetfeeders from printer 2 disk. There are no
   printers on the printer 2 disk which use these sheetfeeders.

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*Brother HL-8   MOVED - Printer Definition.   Printer 8
   This Printer Definition was moved from Printer Disk 1. It has been replaced by the Brother HL-8e.

Epson FX-86e/286e   MOVED - Printer Definition.   Printer 12
   This Printer Definition was moved from Printer Disk 3. This model has been discontinued.

Epson LX-800/Apex-80   MOVED - Printer Definition.   Printer 3
   This Printer Definition was moved from Printer Disk 12. According to Epson, these printers sell more than all
   other Epson printers combined.

IBM 5201-002 Quietwriter II   MOVED - Printer Definition.   Printer 9
   This Printer Definition was moved from Printer Disk 2.

Panasonic KX-P1080i   MOVED - Printer Definition.   Printer 20
   This Printer Definition was moved from Printer Disk 7.

Panasonic KX-P1091   MOVED - Printer Definition.   Printer 20
   This Printer Definition was moved from Printer Disk 7.

Panasonic KX-P1091i/1092i   MOVED - Printer Definition.   Printer 20
   This Printer Definition was moved from Printer Disk 3. These models have been replaced by the KX-P1180 and
   KX-P1191 printers.

Panasonic KX-P1092   MOVED - Printer Definition.   Printer 20
   This Printer Definition was moved from Printer Disk 7.

Panasonic KX-P1124 (Additional)   MOVED - Printer Definition.   Printer 20
   This Printer Definition was moved from Printer Disk 12.

Panasonic KX-P1180/1191 (Additional)   MOVED - Printer Definition.   Printer 20
   This Printer Definition was moved from Printer Disk 12.

Epson LX-800/Apex-80   RENAMED - Printer Definition.   Printer 3
   This Printer Definition was renamed from Epson LX-800. The Apex-80 model is the same printer but is sold under
   a different name. It is sold in large quantities to catalog and mail order stores.

Xerox 4045/2700 II/3700   RENAMED - Printer Definition.   Printer 4
   This Printer Definition was renamed from Xerox 4045 / 2700 II to Xerox 4045/2700 II/3700.

PRINTER NAME   DESCRIPTION OF CHANGES   DISK

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*Tandy DWP 220   Printer 8
Elite 12 pitch font. Changed the horizontal spacing from 1/10 to 1/12. This will fix the problem of 12 pitch printing in 10 pitch.

Apple LaserWriter Plus/IINT/IINTX   Printer 2
Zapf Dingbat Font. Changes were made to the printer definition so printers that had the ITC Zapf Dingbat fonts loaded on disk (eg., Linotypes, IINTX with hard disk) would access the font correctly.

Strikeout. Modified printer driver so text that was super/subscripted and strikeout would print properly.

AST TurboLaser/PS   Printer 2
Zapf Dingbat Font. Changes were made to the printer definition so printers that had the ITC Zapf Dingbat fonts loaded on disk (eg., Linotypes, IINTX with hard disk) would access the font correctly.

Strikeout. Modified printer driver so text that was super/subscripted and strikeout would print properly.

AT&T 495 Laser Printer   Printer 10
OCR A character map. Added 3 additional characters which had been omitted, characters 95, 96, and 126 to 12,1 12,2 and 12,3 respectively. All characters in the OCR A symbol set are now mapped and available.

BDT Laser Feeder 890   Printer 1
Forms. Moved codes from Select Bin to Insert Form to correct a problem with a blank page occasionally printing after a print job.

Helps and Hints. Removed all bullets and extra spaces to condense file size.

BDT MF 830 (6 Bin)   Printer 1
Helps and Hints. Removed all bullets and extra spaces to condense file size.

BDT MF 850 (3 Bin)   Printer 1
Helps and Hints. Removed all bullets and extra spaces to condense file size.

Brother 2024L   Printer 12
Bi-directional Printing. The printer will now print bi-directionally. This will increase the speed.

Line Draw. Changed the vertical spacing of the line draw font so that the line spacing will be correct when mixed with other fonts.

Brother HR-15XL/20/35/40   Printer 2
Fonts. Added the following wheels:
Brougham 10 CPI American English, Brougham 10 CPI Combination, Brougham 12 CPI American English, Elite 12 CPI American English, Grande 10 CPI American English, Letter Gothic 12 CPI American English, Letter Gothic 12 CPI Combination, Prestige 10 CPI Combination, Prestige 12 CPI Combination, Prestige Italic 10 CPI American English, Prestige Italic 12 CPI American English, Quadro 10 CPI American English, Quadro 12 CPI American English, Script 10 CPI American English, Script 12 CPI American English

Helps and Hints. Added the following comment:
On bank 1 the first switches should be set as follows:
Brother HR-15XL and HR-35
US ASCII and Combination wheels 1-4 down
American English wheel   1 up, 2 down, 3 up, 4 down

Brother HR-20 and HR-40
US ASCII and Combination wheels 1-5 up
American English wheel   1-2 up, 3-5 down

Margins. Put in a minimum left margin of .1". If customers set a left margin smaller than .1" the left margin would not line up.

PRINTER NAME   DESCRIPTION OF CHANGES   DISK

Canon LBP-8 A1/A2   Printer 4
Courier Footnote Font. Changed load and select string to print 16 pitch instead of 15 pitch. This fixes the
problem of leaving out spaces between words in the courier footnote font.

Canon LBP-8II/LBP-8IIT/LBP-8IIR   Printer 4
Envelopes. Added envelope form. Fixed problem of not being able to print less than .5" margins on envelopes.
Using the predefined envelope form with no offsets, it was not printing 1" top/side margins and now it will.

Courier Footnote Font. Changed load and select string to print 16 pitch instead of 15 pitch. This fixes the
problem of leaving out spaces between words in the courier footnote font.

Canon LBP-8II/T/R (Additional)   Printer 13
Envelopes. Added envelope form. Fixed problem of not being able to print less than .5" margins on envelopes.
Using the predefined envelope form with no offsets, it was not printing 1" top/side margins and now it will.

Fonts. Added support for Computer Peripheral Superset 1 and 2 cartridges.

Canon LBP-8III   Printer 4
Character fill with patterns. This printer will now fill text characters with different patterns. Because
there is no specific way to implement this in 5.0, colors are used to select different patterns. Different
color selections yield different patterns. It is recomended this be used only with the scaleable fonts.

Bolding. Decreased the amount of offset used for the second pass. This gives the bold print in smaller fonts
a much cleaner appearance.

Envelopes. Added envelope form. Fixed problem of not being able to print less than .5" margins on envelopes.
Using the predefined envelope form with no offsets, it was not printing 1" top/side margins and now it will.

Helps and hints. Added the line "Support for the Canon BM-1, BM-2, BM-3, and SC-1 cartridges is available by
calling (801) 321-4566 and requesting the Canon LBP-8III (Additional)."

Canon LBP-8III (Additional)   Printer 13
Envelopes. Added envelope form. Fixed problem of not being able to print less than .5" margins on envelopes.
Using the predefined envelope form with no offsets, it was not printing 1" top/side margins and now it will.

Double High/Wide Fonts. Fixed the font selection variable so it will properly select double high/wide century,
garland and dutch fonts.

Dingbats. Corrected the dingbats font vertical positioning problem which occured when the dingbats font was
the only font selected on a line.

Citizen 120D/180D   Printer 3
Bold. Changed bolding to multiple pass for the 8.5 CPI font. This fixes the problem where this font would
change pitch when bolded.

Bold Italics. Fixed the problem where bold italics would print the first pass in Italics and the second pass
upright.

Fonts. Added the 10 CPI Italic and 12 CPI Italic font.

Citizen MSP-45/55   Printer 20
Fonts. Added support for the Sans Serif and Orator card fonts.

Cordata LP300X (Additional)   Printer 13
Clean up. Deleted a duplicated LtrGothic (Italic) typeface. In the Century (Italic) typeface changed the
serif type from exaggerated to hairline. These changes will not affect printing.

PRINTER NAME   DESCRIPTION OF CHANGES   DISK

Dataproducts LZR-1230   Printer 1
   Redline. Redline was not turning off properly causing more text to be redlined than was correct.

   Fonts. Added a new font, (DpC4) Orator 10 pitch 12pt for the DpC4 font card.

   OCR A character map. Added 3 additional characters which had been omitted, characters 95, 96, and 126 to 12,1
   12,2 and 12,3 respectively. All characters in the OCR A symbol set are now mapped and available.

Dataproducts LZR-1230 Multi-Bin   Printer 1
   Helps and Hints. Removed all bullets and extra spaces to condense file size.

Dataproducts LZR-1260   Printer 2
   Zapf Dingbat Font. Changes were made to the printer definition so printers that had the ITC Zapf Dingbat fonts
   loaded on disk (eg., Linotypes, IINTX with hard disk) would access the font correctly.

   Strikeout. Modified printer driver so text that was super/subscripted and strikeout would print properly.

Destiny PageStyler   Printer 21
   Zapf Dingbat Font. Changes were made to the printer definition so printers that had the ITC Zapf Dingbat fonts
   loaded on disk (eg., Linotypes, IINTX with hard disk) would access the font correctly.

   Strikeout. Modified printer driver so text that was super/subscripted and strikeout would print properly.

   Soft font format type. Marked the printer as being a Alternative PostScript device (Clone). Bitstream fonts
   should now generate correctly.

EiconScript   Printer 21
   Zapf Dingbat Font. Changes were made to the printer definition so printers that had the ITC Zapf Dingbat fonts
   loaded on disk (eg., Linotypes, IINTX with hard disk) would access the font correctly.

   Strikeout. Modified printer driver so text that was super/subscripted and strikeout would print properly.

Epson FX-80/100   Printer 12
   Initialize Printer. Removed [27]"t"[1] from initialize code since it is not recognized by the printer and
   caused a lowercase "t" to print at the top of the page.

Epson FX-850/1050   Printer 3
   Draft PS. Added support for draft quality in Proportional Spaced fonts. Set quality to draft in WP and the PS
   fonts will now also print draft.

   Double High Fonts. Added support for a variety of double high fonts in both Roman and Sans Serif typefaces.

   Vertical Motion. Changed method of vertical motion to use VMI. This will now be consistent with other Epson
   drivers and should be transparent to the user.

Fujitsu DX2200 (Type I)   Printer 7
   Paper Length. When using the FF button after a job was printed in WordPerfect the printer would not form feed
   the full length of the page. This was because there was not a reset command at the end of the print job.
   Putting a reset code into the driver fixes the problem.

Fujitsu RX7100   Printer 10
   Envelope offsets. Fixed the problem with incorrect margins when printing on an envelope.

GENICOM ACE Printer   Printer 19
   Dingbat font. Fixed the typeface descriptor for the ITC Zapf Dingbat font. This will fix the problem of
   inconsistent line spacing if the Dingbat font was the last font on a line.

HP DeskJet/DeskJet Plus   Printer 2
Characters. Added transparent data code for 6,28 () so it would print.

Softfont format type. Changed the softfont format type from other to HP DeskJet. This will enable the Bitstream and other 3rd party fonts to generate fonts correctly.

Fonts. Added support for the HP WordPerfect cartridges. The fonts include: CG Times 06pt PS (W1), CG Times 08pt PS (W1), CG Times 10pt PS (W1), CG Times 12pt PS (W1), CG Times 14pt PS (W1), CG Times Bold 08pt PS (W1), CG Times Bold 10pt PS (W1), CG Times Bold 12pt PS (W1), CG Times Bold 14pt PS (W1), CG Times Bold 18pt PS (W1), CG Times Bold 24pt PS (W2), CG Times Bold Italic 08pt PS (W1), CG Times Bold Italic 10pt PS (W1), CG Times Bold Italic 12pt PS (W1), CG Times Bold Italic 14pt PS (W1), CG Times Italic 08pt PS (W1), CG Times Italic 10pt PS (W1), CG Times Italic 12pt PS (W1), CG Times Italic 14pt PS (W1), Univers 14pt PS (W2), Univers 18pt PS (W2), Univers 24pt PS (W2)

Internal fonts. Added the Internal Courier Italic fonts that were left off the previous definition.

Minimum margins. Changed minimun bottom margin to .5. Changed the left minimum margin to .25. This is the true unprintable zone as per HP. This should eliminate problems for users that are trying to print in this area.

Helps and hints. Added comment "If a double wide font is the first font on the page, the minimum top margin is .2." This will eliminate problems with the first few lines overprinting when setting the top margin to .1.

HP DeskJet/DeskJet Plus (Additional)   Printer 21
Characters. Added transparent data code for 6,28 () so it would print.

Fonts. Added support for the HP WordPerfect cartridges. The fonts include: CG Times 06pt PS (W1), CG Times 08pt PS (W1), CG Times 10pt PS (W1), CG Times 12pt PS (W1), CG Times 14pt PS (W1), CG Times Bold 08pt PS (W1), CG Times Bold 10pt PS (W1), CG Times Bold 12pt PS (W1), CG Times Bold 14pt PS (W1), CG Times Bold 18pt PS (W1), CG Times Bold 24pt PS (W2), CG Times Bold Italic 08pt PS (W1), CG Times Bold Italic 10pt PS (W1), CG Times Bold Italic 12pt PS (W1), CG Times Bold Italic 14pt PS (W1), CG Times Italic 08pt PS (W1), CG Times Italic 10pt PS (W1), CG Times Italic 12pt PS (W1), CG Times Italic 14pt PS (W1), Univers 14pt PS (W2), Univers 18pt PS (W2), Univers 24pt PS (W2)

Internal fonts. Added the Internal Courier Italic fonts that were left off the previous definition.

Softfont format type. Changed the softfont format type from other to HP DeskJet. This will enable the Bitstream and other 3rd party fonts to generate fonts correctly.

Minimum margins. Changed minimun bottom margin to .5. Changed the left minimum margin to .25. This is the true unprintable zone as per HP. This should eliminate problems for users who are trying to print in this area.

Helps and hints. Added "If a double wide font is the first font on the page, the minimum top margin is .2." If users set their top margin less than .2", overprinting of the first few lines may occur.

HP LaserJet (3rd Party)   Printer 16
OCR A character map. Added 3 additional characters which had been omitted, characters 95, 96, and 126 to 12,1 12,2 and 12,3 respectively. All characters in the OCR A symbol set are now mapped and available.

HP LaserJet - SF   Printer 1
Helps and Hints. Removed all bullets and extra spaces to condense file size.

HP LaserJet 2000 - SF   Printer 5
Helps and Hints. Removed all bullets and extra spaces to condense file size.

HP LaserJet 500+   Printer 1
Helps and Hints. Removed all bullets and extra spaces to condense file size.

HP LaserJet II D   Printer 1
OCR A character map. Added 3 additional characters which had been omitted, characters 95, 96, and 126 to 12,1 12,2 and 12,3 respectively. All characters in the OCR A symbol set are now mapped and available.

PRINTER NAME   DESCRIPTION OF CHANGES   DISK

HP LaserJet II D (3rd Party 2)   Printer 18
   OCR A character map. Added 3 additional characters which had been omitted, characters 95, 96, and 126 to 12,1
   12,2 and 12,3 respectively. All characters in the OCR A symbol set are now mapped and available.

   SoftCraft Soft Fonts. Added support for (SC) Hebrew and Cyrillic soft fonts.

   Super Cartridge 2. Added support for this new cartridge from IQ Engineering.

HP LaserJet II D (3rd Party)   Printer 18
   (Cono) LSC Manhattan fonts. All (Cono) LSC Manhattan fonts are now pointing to a new typeface called Broadway
   (Medium). This will solve font selection problems for these fonts when other similar fonts are downloaded
   simultaneously.

   OCR A character map. Added 3 additional characters which had been omitted, characters 95, 96, and 126 to 12,1
   12,2 and 12,3 respectively. All characters in the OCR A symbol set are now mapped and available.

HP LaserJet II D (Additional)   Printer 17
   OCR A character map. Added 3 additional characters which had been omitted, characters 95, 96, and 126 to 12,1
   12,2 and 12,3 respectively. All characters in the OCR A symbol set are now mapped and available.

HP LaserJet Series II   Printer 1
   OCR A character map. Added 3 additional characters which had been omitted, characters 95, 96, and 126 to 12,1
   12,2 and 12,3 respectively. All characters in the OCR A symbol set are now mapped and available.

HP LaserJet Series II (3rd Party 2)   Printer 15
   OCR A character map. Added 3 additional characters which had been omitted, characters 95, 96, and 126 to 12,1
   12,2 and 12,3 respectively. All characters in the OCR A symbol set are now mapped and available.

   Super Cartridge 2. Added support for this new cartridge from IQ Engineering.

   SoftCraft Soft Fonts. Added support for (SC) Hebrew and Cyrillic soft fonts.

HP LaserJet Series II (3rd Party)   Printer 15
   (Cono) LSC Manhattan fonts. All (Cono) LSC Manhattan fonts are now pointing to a new typeface called Broadway
   (Medium). This will solve font selection problems for these fonts when other similar fonts are downloaded
   simultaneously.

   OCR A character map. Added 3 additional characters which had been omitted, characters 95, 96, and 126 to 12,1
   12,2 and 12,3 respectively. All characters in the OCR A symbol set are now mapped and available.

HP LaserJet Series II (Additional)   Printer 5
   OCR A character map. Added 3 additional characters which had been omitted, characters 95, 96, and 126 to 12,1
   12,2 and 12,3 respectively. All characters in the OCR A symbol set are now mapped and available.

   Corrupted groups. Uncorrupted file so that F cartridge once again appears and two P cartridges do not appear.

HP LaserJet+, 500+   Printer 1
   OCR A character map. Added 3 additional characters which had been omitted, characters 95, 96, and 126 to 12,1
   12,2 and 12,3 respectively. All characters in the OCR A symbol set are now mapped and available.

HP LaserJet+, 500+ (3rd Party 2)   Printer 16
   OCR A character map. Added 3 additional characters which had been omitted, characters 95, 96, and 126 to 12,1
   12,2 and 12,3 respectively. All characters in the OCR A symbol set are now mapped and available.

PRINTER NAME   DESCRIPTION OF CHANGES   DISK

HP LaserJet+, 500+ (3rd Party)   Printer 16
   (Cono) LSC Manhattan fonts. All (Cono) LSC Manhattan fonts are now pointing to a new typeface called Broadway
   (Medium). This will solve font selection problems for these fonts when other similar fonts are downloaded
   simultaneously.

   OCR A character map. Added 3 additional characters which had been omitted, characters 95, 96, and 126 to 12,1
   12,2 and 12,3 respectively. All characters in the OCR A symbol set are now mapped and available.

   fonton Font Select Variable. Fixed a bug where a value for font point size that was 5 times too great was
   being sent to printer when selecting font.

HP LaserJet+, 500+ (Additional)   Printer 11
   OCR A character map. Added 3 additional characters which had been omitted, characters 95, 96, and 126 to 12,1
   12,2 and 12,3 respectively. All characters in the OCR A symbol set are now mapped and available.

HP QuietJet/Plus   Printer 9
   Character Map. Renamed the HP PC-8 character map to HP PC-8 (Inkjet) and added the characters in the Roman 8,
   and Norwegian symbol sets.

IBM 4202-001 Proprinter XL   Printer 3
   Underline. Fixed underline in condensed fonts so that it will not extend across the whole page.

   Condensed font. Condensed font prints much faster now.

   Compressed 17 pitch. Fixed spacing for this font so that second pass attributes (bold, underline, etc.) will
   align with the first pass properly.

IBM 4207/4208 Proprinter X24/XL24   Printer 7
   Character map. Added a width of 10 to character 4,2 in the "IBM Proprinter X24/XL24" PS table so the square
   bullet will print in the PS fonts.

IBM 4207/8-002 Proprinter X24E/XL24E   Printer 3
   Character map. Added a width of 10 to character 4,2 in the "IBM Proprinter X24/XL24" PS table so the square
   bullet will print in the PS fonts.

IBM 4216 Personal Pageprinter   Printer 21
   Zapf Dingbat Font. Changes were made to the printer definition so printers that had the ITC Zapf Dingbat fonts
   loaded on disk (eg., Linotypes, IINTX with hard disk) would access the font correctly.

   Strikeout. Modified printer driver so text that was super/subscripted and struck out would print properly.

IBM 4216-30 Personal Page Printer II   Printer 2
   Zapf Dingbat Font. Changes were made to the printer definition so printers that had the ITC Zapf Dingbat fonts
   loaded on disk (eg., Linotypes, IINTX with hard disk) would access the font correctly.

   Helps and hints. Removed comments about printer setup. This applied only to the IBM 4216-20 Personal
   pageprinter, not the model 4216-30.

   Strikeout. Modified printer driver so text that was super/subscripted and struck out would print properly.

IBM 5202 Quietwriter III (Add'l)   Printer 9
   8020 cartridge. The fonts for the 8010 and 8020 cartridge were both marked for the 8020 cartridge. Unmarked
   under groups the Artisian 10, Gothic 17, Letter Gothic, and Title PS which are the fonts on the 8010 cartridge.

Kyocera F Series   Printer 5
   Helps and Hints. Removed all bullets and extra spaces to condense file size.

PRINTER NAME   DESCRIPTION OF CHANGES   DISK

Kyocera F-1000A/1010/2010/3010   Printer 10
PS Widths. Many of the multinational characters had incorrect widths which have been corrected.

Character Mapping. The Kyocera PC-8 (w/substitutes) character map has been improved to allow correct printing of many more characters.

Resource ID numbers. Memory has been changed from 0 to 2 to allow some 3rd party software companies, (SoftCraft), to work with this definition.

Helps and Hints. Moved the last comment to the first and changed it to read: "This definition is for use with the following Kyocera/ROM versions: F1000A/6.32-14   F1010/6.32-1   F2010/6.32-3   F3010/6.32-11 Common indications of using incorrect ROM versions with this driver are problems with printing incorrect characters, loading soft fonts causing a form feed, and underline not working properly. If any of these problems occur, a ROM upgrade from Kyocera is recommended."

Soft Font Format. Changed type from HP Plus to HP Series II.

Resources. Changed "Cartridge" to "IC Card" and changed "Soft Font" to "Prescribe and Soft Fonts." This change is to identify more appropriately the type of fonts which can use the available resources, currently only used by 3rd party software packages.

Printhead Bias (Left). New code.

Printhead Bias (Top). New code.

Set Page Length. New code.

Font Names. Added a space to beginning of all built-in font names.

Margins. Corrected margins to be more accurate. The previous Printhead Bias value of 240 was changed to 165 which will move text to the right about 1/16 inch.

LaserMaster LC2   Printer 19
Dingbat font. Fixed the typeface descriptor for the ITC Zapf Dingbat font. This will fix the problem of inconsistent line spacing if the Dingbat font was the last font on a line.

Characters. The 1/4, 1/2, and 3/4 characters where added to the LXO character map. These characters will now print in the "fixed pitch" fonts if the bitstream font is converted with the 1.12 or later LaserMaster sofware.

LaserMaster LX6 (300 dpi)   Printer 19
Dingbat font. Fixed the typeface descriptor for the ITC Zapf Dingbat font. This will fix the problem of inconsistent line spacing if the Dingbat font was the last font on a line.

Characters. The 1/4, 1/2, and 3/4 characters where added to the LXO character map. These characters will now print in the "fixed pitch" fonts if the bitstream font is converted with the 1.12 or later LaserMaster sofware.

LaserMaster LX6 (600 dpi)   Printer 19
Dingbat font. Fixed the typeface descriptor for the ITC Zapf Dingbat font. This will fix the problem of inconsistent line spacing if the Dingbat font was the last font on a line.

Characters. The 1/4, 1/2, and 3/4 characters where added to the LXO character map. These characters will now print in the "fixed pitch" fonts if the bitstream font is converted with the 1.12 or later LaserMaster sofware.

NEC LC-860+   Printer 1
Helps and Hints. Removed all bullets and extra spaces to condense file size.

NEC Pinwriter P5/P9XL   Printer 3
Helps and Hints. Added "Double High fonts do not support redline, strikeout, double underline and continuous single underline. Double High text should not be on the same line with graphics." This disclaimer had been left out of this driver although double high fonts still exist in the driver.

PRINTER NAME   DESCRIPTION OF CHANGES   DISK

NEC Pinwriter P5200/P5300   Printer 3
Souvenir Fonts. Removed 6, 7, 12, 15 and 20 pitch Souvenir fonts since they do not actually exist. These would default to the Courier typeface when printing. The only Souvenir fonts available are apparently all variations on the 10 pitch base font (5,10,17).

NEC Silentwriter LC-890   Printer 2
Zapf Dingbat Font. Changes were made to the printer definition so printers that had the ITC Zapf Dingbat fonts loaded on disk (eg., Linotypes, IINTX with hard disk) would access the font correctly.

Strikeout. Modified printer driver so text that was super/subscripted and struck out would print properly.

NEC Spinwriter 2050   Printer 9
Fonts. Added the Multilingual-A fonts to this driver with the NecMuti-A character map.

NEC Spinwriter 3510/3530   Printer 9
Character maps. Created two new character maps to replace the character maps for the Multilingual wheels and the Times Roman/Greek wheel that were incorrect. Customers could not get the foreign and Greek characters.

Characters. Created a new character map for the Tech Math/Times Roman thimble called Tech Math (3530) and pointed the Tech Math/Times Roman font to the new map. The font was previously pointed to a map which had incorrect codes for this printer.

NEC Spinwriter 5515   Printer 9
Character maps. Created three new character maps to replace the character maps for the Multilingual wheels, the TECH Math/Times Roman, and the Times Roman/Greek wheel that were incorrect. Customers could not get the foreign, Math, or Greek characters.

NEC Spinwriter 7715   Printer 9
Fonts. Added Courier 72 Multilingual-A, Elite 12 Multilingual-A, Gothic 12 Multilingual-A, and Pica 10 Multilingual-A wheels.

Character Maps. Added the NEC Greek (3530), Tech Math (3530), and NecMulti-A (3530) maps to replace the previous maps. Customers could not get the Greek, Math or foreign characters with the old maps.

Okidata Laserline 6 Sheet Feeder   Printer 1
Helps and Hints. Removed all bullets and extra spaces to condense file size.

Okidata ML 292/293   Printer 3

Fonts. The following fonts were removed from the driver: Condensed Italic; Condensed Double Wide Italic; Proportional Elite; Proportional Elite Double Wide; Proportional Elite Subscript; Proportional Pica Double Wide; Proportional Pica Subscript. These fonts were deleted because the printer is unable to print italics while in a condensed font and the proportional fonts were not spacing correctly. Proportional NLQ is now the only proportional font in the driver.

Horizontal Positioning. All Pica font motion units are in 1/120". All Elite font motion units are in 1/144". All Condensed font motion units are in 1/206". Previously the driver was space fill, now it uses absolute positioning. This will fix documents will spaces missing between words.

Characters. All fonts now use the Okidata ML 294 map. This offers a more complete support of all the characters that the printer can produce.

Initialize and Reset. Added support for the Okidata CSF 1000 sheet feeder and added a paper length code so that different paper sizes are properly handled.

Horizontal Spacing. Changed driver from relative horizontal motion to absolute horizontal motion. The driver was space fill and this caused many problems with fonts not formatting correctly, specifically proportional. The absolute motion command fixes this problem.

Margins. There is now a .25" left and right margin. The printer is unable to print more than 8" of text per line. This will prevent the printer from wrapping text without a CR from WordPerfect.

Printhead Bias. There is now a 300 printhead bias because of the .25" left margin. This will allow for proper placement of the left margin.

Forms. Additional forms were added to add support of A4 single paper and A4 continuous paper.

Graphics Resolution. All graphics are now in 16 pin mode. Graphics will now print without breaks horizontally in the graphic. Graphics will now position more accurately with fonts in text boxes.

Bold. Added support for multiple pass overstrike of double high and wide fonts. These fonts cannot use the auto bold sequence.

Underline. Changed method of underline from Auto Underline to WP's underline on a seperate pass. This will allow the printer to underline spaces between words.

Double underline. Changed the method of double underline from twin pass auto underline to twin pass WP's underline. This will allow spaces in text to be double underlined.

Strikeout. Changed the strikeout from an underline character to a hyphen. Previously the printer would try to position the underline character for strikeout and on some fonts it would still be underline. Using the hyphen for the strikeout character fixes the problem.

Shadow. Changed shadow from auto shadow to multiple pass shadow. This creates a better shadow font.

Printer Helps and Hints. Deleted "Graphic figures will print broken."

Okidata ML 292/293 (IBM)   Printer 3

Fonts. The following fonts were removed from the driver: Proportional Elite; Proprotional Condensed; Proportional Condensed Double Wide; Proportional Pica. The fonts were removed because the proportional fonts were not spacing correctly. Proportional NLQ is now the only proportional font in the driver.

Horizontal Positioning. All Pica font motion units are in 1/120". All Elite font motion units are in 1/144". All Condensed font motion units are in 1/206". Previously the driver was space fill, now it uses absolute positioning. This will fix documents will spaces missing between words.

Characters. All fonts now use the Oki IBM Full map. This offers a more complete support of all the characters that the printer can produce.

Initialize and Reset. Added support for the Okidata CSF 1000 (IBM) sheet feeder and added a paper length code so that different paper sizes are properly handled.

Horizontal Spacing. Changed driver from relative horizontal motion to absolute horizontal motion. The driver was space fill and this caused many problems with fonts not formatting correctly, specifically proportional. The absolute motion command fixes this problem.

Margins. There is now a .25" left and right margin. The printer is unable to print more than 8" of text per line. This will prevent the printer from wrapping text without a CR from WordPerfect.

Printhead Bias. There is now a 300 printhead bias because of the .25" left margin. This will allow for proper placement of the left margin.

Forms. Additional forms were added to add support of A4 single paper and A4 continuous paper.

Graphics Resolution. All graphics are now in 8 pin mode. 8 pin mode actually produced better formed graphics than the 16 pin mode. Graphics will now print without breaks horizontally in the graphic. Graphics will now position more accurately with fonts in text boxes.

Bold. Added support for multiple pass overstrike of double high and wide fonts. These fonts cannot use the auto bold sequence.

Underline. Changed method of underline from Auto Underline to WP's underline on a seperate pass. This will allow the printer to underline spaces between words.

Double underline. Changed the method of double underline from twin pass auto underline to twin pass WP's underline. This will allow spaces in text to be double underlined.

Strikeout. Changed the strikeout from an underline character to a hyphen. Previously the printer would try to position the underline character for strikeout and on some fonts it would still be underline. Using the hyphen for the strikeout character fixes the problem.

Shadow. Changed shadow from auto shadow to multiple pass shadow. This creates a better shadow font.

Printer Helps and Hints. Deleted "Proportional fonts print slow and jumpy."

Panasonic KX-P1124   Printer 3

Helps and Hints. Added "For additional font support use the Panasonic KX-P1124 (Additional) driver. To order, call 1-800-321-4566."

PRINTER NAME   DESCRIPTION OF CHANGES   DISK

Panasonic KX-P1524   Printer 3
Reset Printer. Changed string for the "Reset at End of Print Job" to do a full reset ([27]"@"). This is done so that the printer will be correctly initialized for other programs after using WordPerfect.

Vertical Motion. Changed method of vertical motion to use the VMI method which is more efficient and consistent with other drivers. This should be transparent to the user.

New 15 Pitch Fonts. Added two new 15 cpi fonts. They are Courier 15 cpi and Courier Italic 15 cpi.

Subscript Fonts. Added subscripted fonts for use as superscript, subscript and small fonts. They are Courier Subscript 10 cpi, Courier Subscript 12 cpi, and Courier Subscript 17 cpi.

Graphics Quality. Changed graphics resolutions so all qualities use 24 pin mode. High quality was changed to use 360 dpi mode and the medium and low qualities were changed to use 120 and 60 dpi modes respectively. Medium and low qualities were previously using 8 pin modes. This will improve resolution in all qualities without a loss in speed.

Helps and Hints. Added comment informing the user that all PS fonts will print in High quality only. This was already true and is done to avoid conflicts in spacing commands.

Print Quality. Added variables and codes to support three distinct qualities of text. These can now be accessed using the Text Quality option on the printing menu.

Cartridge Fonts. Please note that there is a new (Additional) definition on this master which includes support for the font cartridges.

Helps and Hints. Added "For cartridge font support use the Panasonic KX-P1524 (Additional) driver. To order, call 1-800-321-4566."

Panasonic KX-P4450 Sheet Feeder   Printer 1
Helps and Hints. Removed all bullets and extra spaces to condense file size.

PostScript (Additional)   Printer 6
Zapf Dingbat font. Changes were made to the printer definition so printers that had the ITC Zapf Dingbat fonts loaded on disk (eg., Linotypes, IINTX with hard disk) would access the font correctly.

Strikeout. Modified printer driver so text that was super/subscripted and struck out on would print properly.

Fonts. Added separate cartridge fonts for the TI cartridges added on the last printer master. This will fix the problem of the softfont equivalent fonts not appering in WP. The fonts have a (C) extension to denote the differences in the fonts.

Fonts. Added support for the Adobe font libraries 70-74. These fonts include Century Expanded, Serifa, Caslon Open Face, Frutiger, and Linotype Centennial.

QMS Big Kiss   Printer 4
Proportional Spacing. Changed the size and spacing information for the Roman 10 point and Roman 10 point Italic fonts. This will fix any problems with right justification when using either of these fonts.

QMS Kiss Plus (Module 20/30)   Printer 4
Double Underline and Strikeout. Changed method of double underline and strikeout for the Helvetica 18 and 24 point soft fonts. These changes will print strikeout lower on the text; double underline, which was printing a thick solid line, is now separated.

QMS PS Jet +/800 II/810/JetScript   Printer 2
Zapf Dingbat Font. Changes were made to the printer definition so printers that had the ITC Zapf Dingbat fonts loaded on disk (eg., Linotypes, IINTX with hard disk) would access the font correctly.

Strikeout. Modified printer driver so text that was super/subscripted and struck out would print properly.

PRINTER NAME   DESCRIPTION OF CHANGES   DISK

Qume ScripTEN   Printer 2
   Zapf Dingbat Font. Changes were made to the printer definition so printers that had the ITC Zapf Dingbat fonts
   loaded on disk (eg., Linotypes, IINTX with hard disk) would access the font correctly.

   Strikeout. Modified printer driver so text that was super/subscripted and struck out would print properly.

Ricoh PC LASER 6000   Printer 4
   Line draw. Fixed two incorrectly mapped line draw characters.

Seikosha SL-80AI   Printer 3
   Fonts. Added the following fonts: Condensed Elite Italic 20 Pitch, Condensed Pica Half-Height Italic 17 Pitch,
   Condensed Pica Italic 17 Pitch, Double Wide Half-Height Italic 5 Pitch, Double Wide Italic 5 Pitch, Elite 12
   Pitch Italic, Pica Half-Height Italic 10 Pitch, Proportional Double Wide, Proportional Double Wide Italic.

Silver-Reed EXP 500/550/800   Printer 2
   Modern PS. Changed the proportional table to allow correct proportional spacing. The widths were incorrect.
   Put in the same widths as were in 4.2.

   Helps and Hints. Added "For the 800: When switching wheels, take the printer off line and press the Pitch
   button until the correct pitch is highlighted for the wheel installed."

Star LaserPrinter 8   Printer 10
   Characters. Fixed Tms Rmn built-in font to access the PC-8 character set. It was set to Roman 8 previously.

   OCR A character map. Added 3 additional characters which had been omitted, characters 95, 96, and 126 to 12,1
   12,2 and 12,3 respectively. All characters in the OCR A symbol set are now mapped and available.

Talaris 1590-T   Printer 4
   Foreign Characters. Enabled the printing of many new foreign characters in the PS fonts on both the standard
   driver and the new additional driver on printer 22.

Tektronix Phaser CP   Printer 21
   Zapf Dingbat Font. Changes were made to the printer definition so printers that had the ITC Zapf Dingbat fonts
   loaded on disk (eg., Linotypes, IINTX with hard disk) would access the font correctly.

   Strikeout. Modified printer driver so text that was super/subscripted and struck out on would print properly.

TI OmniLaser 2106/2115 (35 fonts)   Printer 2
   Zapf Dingbat Font. Changes were made to the printer definition so printers that had the ITC Zapf Dingbat fonts
   loaded on disk (eg., Linotypes, IINTX with hard disk) would access the font correctly.

   Strikeout. Modified printer driver so text that was super/subscripted and struck out would print properly.

TI OmniLaser 2115 (13 Fonts)   Printer 21
   Zapf Dingbat Font. Changes were made to the printer definition so printers that had the ITC Zapf Dingbat fonts
   loaded on disk (eg., Linotypes, IINTX with hard disk) would access the font correctly.

   Strikeout. Modified printer driver so text that was super/subscripted and struck out would print properly.

Toshiba P1351   Printer 7
   Horizontal spacing. Added a REPOSITION to the end of the select font strings for all built in fonts to fix
   the problem of horizontal positioning being off after using super or subscript. Also fixed the problem of
   horizontal spacing being off when mixing PS fonts with graphics (Text would be all scrunched up after printing
   graphics in the middle of a ps font.

PRINTER NAME   DESCRIPTION OF CHANGES   DISK

Toshiba P321/P341e/P351/P351C   Printer 3

Horizontal Spacing. Added a REPOSITION code to the end of the Prestige Elite and Prestige Elite Italic font in the load and select string to fix the problem of text being spaced too far to the right if using super and subscript in the Prestige Elite font.

Forms. Changed the maximum width for the "All Others" form to 15 inches so that users can select a 15 inch wide form without defining a form.

Toshiba P321SL/P321SLC/P341SL/EW311   Printer 3

Condensed Italic. Fixed the vertical spacing problem with this font. Vertical Spacing Units for this font were set to 1/48 instead of 1/120, which caused consecutive lines of condensed italic to be scrunched together.

Toshiba P321SL/P341SL/EW311 (USA)   Printer 7

Character Map. Added support for additional characters in the built in fonts.

Toshiba P351SX   Printer 3

Character Map. Added support for additional characters to the built in fonts.

Toshiba PageLaser12 (HP)   Printer 1

Helps and Hints. Removed all bullets and extra spaces to condense file size.

Xerox 3 Bin   Printer 4

Sheet feeder for Xerox 3700. Added strings to the existing Xerox 3 Bin sheet feeder to support the 3700's ledger size paper (11x17).

Xerox 4045/2700 II (Additional)   Printer 14

Graphics Boxes. Fixed a problem with graphics boxes printing about half a line too low.

Graphics on a legal page. If a graphic was printed on a legal size page, it would not position properly (usually too low), while the same graphic would print fine on letter size page. They now both print correctly.

Xerox 4045/2700 II/3700   Printer 4

Graphics Boxes. Fixed a problem with graphics boxes printing about half a line too low.

Graphics on a legal page. If a graphic was printed on a legal size page, it would not position properly (usually too low), while the same graphic would print fine on letter size page. They now both print correctly.

Ziyad PaperJet 400   Printer 1

Helps and Hints. Removed all bullets and extra spaces to condense file size.