

HP PCL 3 Printer Commands Summary

| PRINTER FEATURE | COMMAND | DECIMAL VALUE | HEXADECIMAL VALUE |
|---|---------------|--------------------------|----------------------|
| Printer Control | | | |
| Reset | EscE | 027 069 | 1B 45 |
| Self test | Escz | 027 122 | 1B 7A |
| Paper Input Control (Media Source) | | | |
| Eject page | Esc&I0H | 027 038 108 048 072 | 1B 26 6C 30 48 |
| Feed from tray | Esc&I1H | 027 038 108 049 072 | 1B 26 6C 31 48 |
| Envelope Feed | Esc&I3H | 027 038 108 051 072 | 1B 26 6C 33 48 |
| Text Print Mode | | | |
| Unidirectional left to right | Esc&k0W | 027 038 107 048 087 | 1B 26 6B 30 57 |
| Bidirectional | Esc&k1W | 027 038 107 049 087 | 1B 26 6B 31 57 |
| Unidirectional right to left | Esc&k2W | 027 038 107 050 087 | 1B 26 6B 32 57 |
| Color Text (graphics) | | | |
| Foreground color | Esc*v#S | 027 042 118 # 083 | 1B 2A 76 # 53 |
| Underline | | | |
| Single fixed | Esc&d1D | 027 038 100 049 068 | 1B 26 64 31 44 |
| Double fixed | Esc&d2D | 027 038 100 050 068 | 1B 26 64 32 44 |
| Single floating | Esc&d3D | 027 038 100 051 068 | 1B 26 64 33 44 |
| Double floating | Esc&d4D | 027 038 100 052 068 | 1B 26 64 34 44 |
| Turn off | Esc&d@ | 027 038 100 064 | 1B 26 64 40 |
| Line Termination | | | |
| CR=CR, LF=LF, FF=FF | Esc&k0G | 027 038 107 048 071 | 1B 26 6B 30 47 |
| CR=CR+LF, LF=LF, FF=FF | Esc&k1G | 027 038 107 049 071 | 1B 26 6B 31 47 |
| CR=CR, LF=CR+LF, FF=CR+FF | Esc&k2G | 027 038 107 050 071 | 1B 26 6B 32 47 |
| CR=CR+LF, LF=CR+LF, FF=CR+FF | Esc&k3G | 027 038 107 051 071 | 1B 26 6B 33 47 |
| End-of-Line Wrap | | | |
| Turn on | Esc&s0C | 027 038 115 048 067 | 1B 26 73 30 43 |
| Turn off | Esc&s1C | 027 038 115 049 067 | 1B 26 73 31 43 |
| Transparent Print Mode | | | |
| No. of bytes | Esc&p#X[data] | 027 038 112 # 088 [data] | 1B 26 70 # 58 [data] |
| Display Functions Mode | | | |
| Turn on | EscY | 027 089 | 1B 59 |
| Turn off | EscZ | 027 090 | 1B 5A |
| Media Type | | | |
| Plain paper | Esc&I0M | 027 038 108 048 077 | 1B 26 6C 30 4D |
| Bond paper | Esc&I1M | 027 038 108 049 077 | 1B 26 6C 31 4D |
| Premier paper | Esc&I2M | 027 038 108 050 077 | 1B 26 6C 32 4D |
| Glossy film | Esc&I3M | 027 038 108 051 077 | 1B 26 6C 33 4D |
| Transparency film | Esc&I4M | 027 038 108 052 077 | 1B 26 6C 34 4D |

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| Page Control | | | |
| Page Orientation* | | | |
| Landscape | Esc&l1O | 027 038 108 049 079 | 1B 26 6C 31 4F |
| Portrait | Esc&l0O | 027 038 108 048 079 | 1B 26 6C 30 4F |
| Paper Size* | | | |
| Default size | Esc&l0A | 027 038 108 048 065 | 1B 26 6C 30 41 |
| Executive | Esc&l1A | 027 038 108 049 065 | 1B 26 6C 31 41 |
| US Letter | Esc&l2A | 027 038 108 050 065 | 1B 26 6C 32 41 |
| US Legal | Esc&l3A | 027 038 108 051 065 | 1B 26 6C 33 41 |
| A5 ISO/JIS | Esc&l25A | 027 038 108 050 055 065 | 1B 26 6C 32 37 41 |
| A4 ISO/JIS | Esc&l26A | 027 038 108 050 054 065 | 1B 26 6C 32 36 41 |
| B5 JIS | Esc&l45A | 027 038 108 052 053 065 | 1B 26 6C 34 35 41 |
| Custom | Esc&l101A | 027 038 108 049 048 049 065 | 1B 26 6C 31 30 31 41 |
| No. 10 envelope (landscape) | Esc&l-81A | 027 038 108 056 045 049 065 | 1B 26 6C 38 2D 31 41 |
| No. 10 envelope (portrait) | Esc&l81A | 027 038 108 056 049 065 | 1B 26 6C 38 31 41 |
| International DL envelope | Esc&l90A | 027 038 108 057 048 065 | 1B 26 6C 39 30 41 |
| International C6 envelope | Esc&l92A | 027 038 108 057 050 065 | 1B 26 6C 39 32 41 |
| Index card 4x6 | Esc&l74A | 027 038 108 055 052 065 | 1B 26 6C 39 32 41 |
| Index card 5x8 | Esc&l75A | 027 038 108 055 053 065 | 1B 26 6C 37 35 41 |
| A6 ISO/JIS (105x148mm) | Esc&l24A | 027 038 108 050 052 065 | 1B 26 6C 32 34 41 |
| Hagaki card (100x148mm) | Esc&l71A | 027 038 108 055 049 065 | 1B 26 6C 37 31 41 |
| Line Spacing | | | |
| Lines per inch no. of lines | Esc&l#D | 027 038 108 # 068 | 1B 26 6C # 44 |
| Page Length* | | | |
| Number of lines | Esc&l#P | 027 038 108 # 080 | 1B 26 6C # 50 |
| Perforation Skip Mode* | | | |
| On | Esc&l1L | 027 038 108 049 076 | 1B 26 6C 31 4C |
| Off | Esc&l0L | 027 038 108 048 076 | 1B 26 6C 30 4C |
| Top Margin* | | | |
| Number of lines | Esc&l#E | 027 038 108 # 069 | 1B 26 6C # 45 |
| Text Length* | | | |
| Number of lines | Esc&l#F | 027 038 108 # 070 | 1B 26 6C # 46 |
| Side Margins* | | | |
| Clear | Esc9 | 027 057 | 1B 39 |
| Left (column no.) | Esc&a#L | 027 038 097 # 076 | 1B 26 61 # 4C |
| Right (column no.) | Esc&a#M | 027 038 097 # 077 | 1B 26 61 # 4D |
| Text Scale Mode | | | |
| Off | Esc&k5W | 027 038 107 053 087 | 1B 26 6B 35 57 |
| On | Esc&k6W | 027 038 107 054 087 | 1B 26 6B 36 57 |
| Cursor Positioning | | | |
| Horizontal motion index no. of 1/120th inch moves | Esc&k#H | 027 038 107 # 072 | 1B 26 6B # 48 |
| Move to column no. | Esc&a#C | 027 038 097 # 067 | 1B 26 61 # 43 |
| Horizontal no. (decipoints) | Esc&a#H | 027 038 097 # 072 | 1B 26 61 # 48 |
| Horizontal no. (dots) | Esc*p#X | 027 042 112 # 088 | 1B 2A 70 # 58 |
| Vertical motion index no. of 1/48 inch moves | Esc&l#C | 027 038 108 # 067 | 1B 26 6C # 43 |
| Move to row no. | Esc&a#R | 027 038 097 # 082 | 1B 26 61 # 52 |
| Vertical no. (decipoints) | Esc&a#V | 027 038 097 # 086 | 1B 26 61 # 56 |
| Vertical no. (dots) | Esc*p#Y | 027 042 112 # 089 | 1B 2A 70 # 59 |

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|---------------------------------------|-----------------------|---------------------|-------------------|
| Font Selection | | | |
| Character Set* | | | |
| PC-8 | Esc(10U | 027 040 049 048 085 | 1B 28 31 30 55 |
| HP Roman8 | Esc(8U | 027 040 056 085 | 1B 28 38 55 |
| PC-8 Danish/Norwegian | Esc(11U | 027 040 049 049 085 | 1B 28 31 31 55 |
| PC 850 | Esc(12U | 027 040 049 050 085 | 1B 28 31 32 55 |
| PC 852 | Esc(17U | 027 040 049 055 085 | 1B 28 31 37 55 |
| ECMA-94 Latin 1 | Esc(0N | 027 040 048 078 | 1B 28 30 4E |
| German (ISO 21) | Esc(1G | 027 040 049 071 | 1B 28 31 47 |
| French (ISO 69) | Esc(1F | 027 040 049 070 | 1B 28 31 46 |
| Italian (ISO 15) | Esc(0I | 027 040 048 073 | 1B 28 30 49 |
| Spanish (ISO 17) | Esc(2S | 027 040 050 083 | 1B 28 32 53 |
| Swedish Names (ISO 11) | Esc(0S | 027 040 048 083 | 1B 28 30 53 |
| Swedish (ISO 10) | Esc(3S | 027 040 051 093 | 1B 28 33 53 |
| Norwegian 1 (ISO 60) | Esc(0D | 027 040 048 068 | 1B 28 30 44 |
| Norwegian2 (ISO 61) | Esc(1D | 027 040 049 068 | 1B 28 31 44 |
| Portuguese (ISO 16) | Esc(4S | 027 040 052 083 | 1B 28 34 53 |
| United Kingdom (ISO 4) | Esc(1E | 027 040 049 069 | 1B 28 31 45 |
| ANSI ASCII (ISO 6) | Esc(0U | 027 040 048 085 | 1B 28 30 55 |
| JIS ASCII | Esc(0K | 027 040 048 075 | 1B 28 30 4B |
| HP Legal | Esc _c (1U | 027 040 049 085 | 1B 28 31 55 |
| ISO IRV | Esc(2U | 027 040 051 085 | 1B 28 32 55 |
| Line Draw (optional) | Esc(0L | 027 040 048 076 | 1B 28 30 4C |
| Math 7 (optional) | Esc(0M | 027 040 048 077 | 1B 28 30 4D |
| Math 8 (optional) | Esc(8M | 027 040 056 077 | 1B 28 38 4D |
| Math8a (optional) | Esc(0Q | 027 040 048 081 | 1B 28 30 51 |
| Math8b (optional) | Esc(1Q | 027 040 049 081 | 1B 28 31 51 |
| PIFont (optional) | Esc(15U | 027 040 049 053 085 | 1B 28 31 35 55 |
| PIFonta (optional) | Esc(2Q | 027 040 050 081 | 1B 28 32 51 |
| Spacing* | | | |
| Proportional | Esc(s1P | 027 040 115 049 080 | 1B 28 73 31 50 |
| Fixed | Esc(s0P | 027 040 115 048 080 | 1B 28 73 30 50 |
| Print Pitch* | | | |
| Number of characters per inch | Esc(s#H | 027 040 115 # 072 | 1B 28 73 # 48 |
| Point Size (Character Height)* | | | |
| Number of 1/72nd inch | Esc(s#V | 027 040 115 # 086 | 1B 28 73 # 56 |
| Style* | | | |
| Upright | Esc(s0S | 027 040 115 048 083 | 1B 28 73 30 53 |
| Italic | Esc(s1S | 027 040 115 049 083 | 1B 28 73 31 53 |
| Stroke Weight* | | | |
| Bold | Esc(s3B | 027 040 115 051 066 | 1B 28 73 33 42 |
| Normal | Esc _c (s0B | 027 040 115 048 066 | 1B 28 73 30 42 |
| Extra bold (optional) | Esc(s7B | 027 040 115 055 066 | 1B 28 73 37 42 |

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|----------------------------------|---------------------------|---------------------------------|-------------------------|
| Typeface* | | | |
| Courier | Esc(s3T | 027 040 115 051 084 | 1B 28 73 33 54 |
| CG Times | Esc(s4101T | 027 040 115 052 049 048 049 084 | 1B 28 73 34 31 30 31 54 |
| Letter Gothic | Esc(s6T | 027 040 115 054 084 | 1B 28 73 36 54 |
| Univers | Esc(s52T | 027 040 115 053 050 084 | 1B 28 73 35 32 54 |
| Pica (optional) | Esc(s1T | 027 040 115 049 084 | 1B 28 73 31 54 |
| Line Printer (optional) | Esc(s0T | 027 040 115 048 084 | 1B 28 73 30 54 |
| Prestige (optional) | Esc(s8T | 027 040 115 056 084 | 1B 28 73 38 54 |
| Elite (optional) | Esc(s2T | 027 040 115 050 084 | 1B 28 73 32 54 |
| Script (optional) | Esc(s7T | 027 040 115 055 084 | 1B 28 73 37 54 |
| Helvetica (optional) | Esc(s4T | 027 040 115 052 084 | 1B 28 73 34 54 |
| Presentations (optional) | Esc(s11T | 027 040 115 049 049 084 | 1B 28 73 31 31 54 |
| Times Roman (optional) | Esc(s5T | 027 040 115 053 084 | 1B 28 73 35 54 |
| CG Century Schoolbook (optional) | Esc(s23T | 027 040 115 050 051 084 | 1B 28 73 32 33 54 |
| Brush (optional) | Esc(s32T | 027 040 115 051 050 084 | 1B 28 73 33 32 54 |
| Dom Casual (optional) | Esc(s61T | 027 040 115 054 049 084 | 1B 28 73 36 31 54 |
| Univers Condensed (optional) | Esc(s85T | 027 040 115 056 053 084 | 1B 28 73 38 35 54 |
| Garamond (optional) | Esc(s101T | 027 040 115 049 048 049 084 | 1B 28 73 31 30 31 54 |
| CG Triumvirate (optional) | Esc(s4T | 027 040 115 049 084 | 1B 28 73 34 54 |
| Print Quality | | | |
| Letter | Esc(s2Q | 027 040 115 050 081 | 1B 28 73 32 51 |
| Draft (economode) | Esc(s1Q | 027 040 115 049 081 | 1B 28 73 31 51 |
| Download Font Management | | | |
| Font ID no. | Esc*c#D | 027 042 099 # 068 | 1B 2A 63 # 44 |
| ASCII code no. | Esc*c#E | 027 042 099 # 069 | 1B 2A 63 # 45 |
| Delete All | Esc*c0F | 027 042 099 048 070 | 1B 2A 63 30 46 |
| Delete temporary | Esc*c1F | 027 042 099 049 070 | 1B 2A 63 31 46 |
| Delete last | Esc*c2F | 027 042 099 050 070 | 1B 2A 63 32 46 |
| Make temporary | Esc*c4F | 027 042 099 052 070 | 1B 2A 63 34 46 |
| Make permanent | Esc*c5F | 027 042 099 053 070 | 1B 2A 63 35 46 |
| Create font number of bytes | E _c)s#W[Data] | 027 041 115 # 087 [data] . | 1B 29 73 # 57 [data] |
| Download chr. No. of bytes | E _c (s#W[Data] | 027 040 115 # 087 [data] . | 1B 28 73 # 57 [data] |

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|--|---------------|-----------------------------|----------------------|
| Raster Graphics | | | |
| Start Raster Graphics | | | |
| At left most position | Esc*r0A | 027 042 114 048 065 | 1B 2A 72 30 41 |
| Current cursor position | Esc*r1A | 027 042 114 049 065 | 1B 2A 72 31 41 |
| End Raster Graphics | | | |
| End Graphics | Esc*rbC | 027 042 114 098 067 | 1B 2A 72 62 43 |
| Resolution | | | |
| 75 dots per inch | Esc*t75R | 027 042 116 055 053 082 | 1B 2A 74 37 35 52 |
| 100 dots per inch | Esc*t100R | 027 042 116 049 048 048 082 | 1B 2A 74 31 30 30 52 |
| 150 dots per inch | Esc*t150R | 027 042 116 049 053 048 082 | 1B 2A 74 31 35 30 52 |
| 300 dots per inch | Esc*t300R | 027 042 116 051 048 048 082 | 1B 2A 74 33 30 30 52 |
| Set Raster Graphics Width | | | |
| Number of pixels | Esc*r#S | 027 042 114 # 083 | 1B 2A 72 # 53 |
| Print Mode (Graphics) | | | |
| Graphics default (no break) | Esc*p0N | 027 042 112 048 78 | 1B 2A 70 30 4E |
| Bidirectional | Esc*p1N | 027 042 112 049 78 | 1B 2A 70 31 4E |
| Left to right | Esc*p2N | 027 042 112 050 78 | 1B 2A 70 32 4E |
| Right to left | Esc*p3N | 027 042 112 051 78 | 1B 2A 70 33 4E |
| Conditional bidirectional | Esc*p4N | 027 042 112 052 78 | 1B 2A 70 34 4E |
| Transfer Raster Graphics | | | |
| Number of bytes | Esc*b#W[data] | 027 042 098 # 087 [data] | 1B 2A 62 # 57 [data] |
| Transfer graphics data by plane | Esc*b#V[data] | 027 042 098 # 086 [data] | 1B 2A 62 # 56 [data] |
| Relative Vertical Pixel Movement (formerly known as Y Offset) | | | |
| Number of dots | Esc *b#Y | 027 042 098 # 089 | 1B 2A 62 # 59 |
| Set Graphics Quality | | | |
| Quality draft | Esc*r1Q | 027 042 114 049 081 | 1B 2A 72 31 51 |
| Similar to letter quality | Esc*r2Q | 027 042 114 050 081 | 1B 2A 72 32 51 |
| Set Number of Raster Planes Per Row | | | |
| Single plane palette | Esc*r1U | 027 042 114 049 085 | 1B 2A 72 31 55 |
| 3 planes, CMY palette | Esc*r-3U | 027 042 114 045 051 085 | 1B 2A 72 2D 33 55 |
| 3 planes, RGB palette | Esc*r3U | 027 042 114 051 085 | 1B 2A 72 33 55 |
| 4 planes, KCMY palette | Esc*r-4U | 027 042 114 045 052 085 | 1B 2A 72 2D 34 55 |
| Graphics Image Improvement | | | |
| Raster graphics shingling | Esc*o#Q | 027 042 111 # 081 | 1B 2A 6F # 51 |
| Raster graphics depletion | Esc*o#D | 027 042 111 # 068 | 1B 2A 6F # 44 |

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