

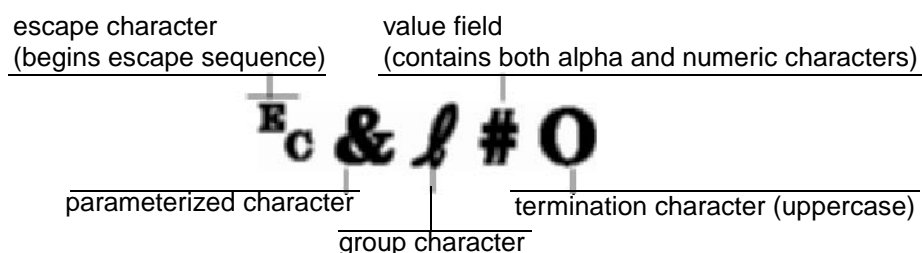
Service mode

In service mode the following can be performed:

- Print a service mode self test.
- Verify and set the page count. See “Setting the page count” on page 53.
- Set the cold reset default. See “Setting the cold reset default” on page 54.
- Set the demo page = true/false (used to remove the demo page from the service mode self test).
- Set the diagnostic functions on or off (for software developers’ use only).

Entering service mode

Use PJI commands to enter service mode and perform various service-mode configurations. See table 21. Users must use the exact character and case specified for PCL printer commands. The following are elements of a typical printer command:



- escape character (begins escape sequence)
- parameterized character
- group character
- value field (contains both alpha and numeric characters)
- termination character (uppercase)

Escape sequences can be combined into one escape sequence string. There are three important rules to follow when combining code:

- 1 The first two characters after the escape character (the parameterized and group characters) must be the same in all of the commands to be combined.
- 2 When combining escape sequences, change the uppercase (termination) character in each individual escape sequence to lowercase.
- 3 The final character of the combined escape sequence must be uppercase.

Entering escape characters

Printer commands always begin with the escape character (`EC`). The following table shows how the escape character can be entered from various DOS software applications

Table 20. Escape character table

DOS software	Application entry	What appears
Lotus 1-2-3	Type \027	027
Word Perfect for DOS	Type <27>	<27>
MS-DOS Edit	Hold down Ctrl-P, and press Esc	<--
MS-DOS Edlin	Hold down Ctrl-V, release, then press [^[

Table 21 shows how to use PJJ commands to enter service mode and perform various service mode configurations.

Table 21. PJJ service mode commands

PJJ Command	Description
E _C %-12345X@PJJ	Start PJJ job
@PJJ SET SERVICEMODE=HPBOISEID	Enter service mode
@PJJ SET PAGES=0	Set page count [= xxxxx]
@PJJ SET SERIALNUMBER=USBBB12345	Set printer serial number (=chassis label serial number)
@PJJ SET CRPAPER=LETTER	Set cold-reset page size [=letter/A4]
@PJJ SET SKIPDEMO=FALSE	Skip demo/PCL type page [=true/false]
@PJJ SET DIAGNOSTICS=OFF	Set diagnostics [=OFF/ON] (for ISV use)
@PJJ SET SERVICEMODE=EXIT	Exit service mode
DEFAULT PAPER=LETTER	Select user paper-size default
@PJJ RESET	Perform PJJ reset
E _C %-12345X	Exit PJJ mode
E _C Z	Print self test/configuration page
E _C E	Reset the printer

Setting the page count

The page count is stored in the printer's NVRAM. If it is necessary to replace the formatter PCB, the page count should be reset to the printer's original page count to reflect the age of the print engine. Before removing the old formatter PCB, print a self test/configuration page to verify the current page count of the printer, if possible. See "Self test/configuration page" on page 47.

Table 22. Setting the page count

PJJ Command	Description
E _C %-12345X@PJJ	Start PJJ job
@PJJ SET SERVICEMODE=HPBOISEID	Enter service mode
@PJJ SET PAGES=0	Set page count [= xxxxx]
@PJJ SET SERVICEMODE=EXIT	Exit service mode
@PJJ RESET	Perform PJJ reset
E _C %-12345X	Exit PJJ mode
E _C Z	Print self test/configuration page
E _C E	Reset the printer

Setting the cold reset default

The customization variable will determine the default paper size after a cold reset. This is set to A4/letter at the manufacturer. This variable might need to be reset when the formatter is replaced.

Table 23. Setting the cold reset default

PJL Command	Description
E _C %-12345X@PJL	Start PJL job
@PJL SET SERVICEMODE=HPBOISEID	Enter service mode
@PJL SET CRPAPER=LETTER	Set cold-reset page size [=Letter/A4]
@PJL SET SERVICEMODE=EXIT	Exit service mode
@PJL RESET	Perform PJL reset
E _C %-12345X	Exit PJL mode
E _C Z	Print self test/configuration page
E _C E	Reset the printer