

Printout showing the five LQ fonts of Canon BJC-240 (configured for Epson LQ-510/550 emulation)

Direct hookup to Epson APL parallel interface card (8133 ROM) in slot 7 of Apple IIGS

10 CHARACTERS PER INCH (default Pica pitch)

LQ FONT 0 CANON BJC 8133 abcdefghijklmnopqrstuvwxyz1234567890)(\*&^%\$#@!

LQ FONT 1 ABCDEFGHijklmnopqrestuvwxyz1234567890()\*&^%\$#@

LQ FONT 2 ABCDEFGHIJKLMNOPqrstuvwxyz0987654321!@#\$\$%^&\*()-=[[]{}/.,

LQ FONT 3 ABCDEGHIJKLMNOPqrstuvwxyz1234567890-+\_)(\*&^%\$#@!][';/.,<>?

LQ FONT 4 APPLE II FOREVER abcdefghijklmnQRSTUVWXYZ1234567890+\_)(\*&^%\$#@!

]LIST

10 PR# 7

15 PRINT CHR\$(27);"x"; CHR\$(1) ← Epson command enabling LQ printing

20 PRINT CHR\$(27);"k"; CHR\$(0) ← Epson command to select LQ font - ESC 'k'n n=0,1...

30 PRINT "LQ FONT 0 CANON BJC 8133 abcdefghijklmnopqrstuvwxyz1234567890)(\*&^%\$#@!"

40 PRINT CHR\$(27);"k"; CHR\$(1)

50 PRINT "LQ FONT 1 ABCDEFGHijklmnopqrestuvwxyz1234567890()\*&^%\$#@"

60 PRINT CHR\$(27);"k"; CHR\$(2)

70 PRINT "LQ FONT 2 ABCDEFGHIJKLMNOPqrstuvwxyz0987654321!@#\$\$%^&\*()-=[[]{}/.,"

80 PRINT CHR\$(27);"k"; CHR\$(3)

90 PRINT "LQ FONT 3 ABCDEGHIJKLMNOPqrstuvwxyz1234567890-+\_)(\*&^%\$#@!][';/.,<>?"

95 PRINT CHR\$(27);"k"; CHR\$(4)

100 PRINT "LQ FONT 4 APPLE II FOREVER abcdefghijklmnQRSTUVWXYZ1234567890+\_)(\*&^%\$#@!"

110 PR# 0

]PR#0



Canon BJC-240 condensed print sample

18 CHARACTERS PER INCH (condensed Pica)

CONDENSED MODE  
PRINT CHR\$(27);CHR\$(15)  
ESC SI

LQ FONT 0 CANON BJC 8133 abcdefghijklmnopqrstuvwxyz1234567890)(\*^%\$#@!

LQ FONT 1 ABCDEFGHIJKLMNOPQRSTUVWXYZ1234567890)(\*^%\$#@

LQ FONT 2 ABCDEFGHIJKLMNOPQRSTUVWXYZ0987654321!@#%\$^&\*()-=[]{}/.,

LQ FONT 3 ABCDEFGHIJKLMNOPQRSTUVWXYZ1234567890-+)(\*^%\$#@![';/.,<>?

LQ FONT 4 APPLE II FOREVER abcdefghijklmnopqrstuvwxyz1234567890+)(\*^%\$#@!

Canon BJC-240 double-wide print sample

9 CHARACTERS PER INCH (double-width condensed Pica)

NB: Condensed mode is still active (after printing the sample immediately above)  
so double-wide is being applied to 18 cpi giving a final result of 9 cpi

LQ FONT 0 CANON BJC-240 EPSON LQ EMULATION MODE abcdefgh1234567890)(  
\*^%\$#@!

LQ FONT 1 ABCDEFGHIJKLMNOPQRSTUVWXYZ0987654321[];/.,<>?:{ })(\*^%\$#@!

LQ FONT 2 abcdefghijklMNOPQRSTUVWXYZ1234567890-+)(\*^%\$#@!

LQ FONT 3 ABCDEFGHIJKLMNOPQRSTUVWXYZ,./;'[]=0-09866554433221

LQ FONT 4 The quick brown fox jumped OVER THE LAZY DOG 1234567859!@#  
\$%^&\*()-=[]{}';:/.,<>?\|

10 PR# 7

15 PRINT CHR\$ (27);"x"; CHR\$ (1)

16 PRINT CHR\$ (27);"w1": REM TURN DOUBLE-WIDE MODE ON

20 PRINT CHR\$ (27);"k"; CHR\$ (0)

30 PRINT "LQ FONT 0 CANON BJC-240 EPSON LQ EMULATION MODE abcdefgh  
1234567890)(\*^%\$#@!"

40 PRINT CHR\$ (27);"k"; CHR\$ (1)

50 PRINT "LQ FONT 1 ABCDEFGHIJKLMNOPQRSTUVWXYZ0987654321[];/.,<>?:  
{ })(\*^%\$#@!"

60 PRINT CHR\$ (27);"k"; CHR\$ (2)

70 PRINT "LQ FONT 2 abcdefghijklMNOPQRSTUVWXYZ1234567890-+)(\*^%  
\$#@!"

80 PRINT CHR\$ (27);"k"; CHR\$ (3)

90 PRINT "LQ FONT 3 ABCDEFGHIJKLMNOPQRSTUVWXYZ,./;'[]=0-0986655443  
3221"

95 PRINT CHR\$ (27);"k"; CHR\$ (4)

100 PRINT "LQ FONT 4 The quick brown fox jumped OVER THE LAZY DOG  
1234567859!@#%\$^&\*()-=[]{}';:/.,<>?\|"

101 PRINT CHR\$ (27);"k"; CHR\$ (1)

105 LIST

110 PR# 0



*Canon BJC-240 double-wide & emphasized print sample*

9 CHARACTERS PER INCH  
(emphasized, double-width condensed Pica)

LQ FONT 0 CANON BJC-240 EPSON LQ EMULATION MODE abcdefgh1234567890)(  
\*&~%\$#@!

LQ FONT 1 ABCDEFGHIJKlmnopqrstuvwxyz0987654321[];/.,<>?:{ })(\*&~%\$#@!

LQ FONT 2 abcdefghijklMNOPQRSTUVWXYZ1234567890-=\_+)(\*&~%\$#@!

LQ FONT 3 ABCDEFGHIJKLMNOPqrstuvwxyz,./;'[]=0-09866554433221

LQ FONT 4 *The quick brown fox jumped OVER THE LAZY DOG* 1234567859!@#  
\$%^&\*()-=[ ]{}';:/.,<>?\!

10 PR# 7

15 PRINT CHR\$ (27);"x"; CHR\$ (1)

16 PRINT CHR\$ (27);"W1": REM TURN DOUBLE-WIDE MODE ON

17 PRINT CHR\$ (27);"E": REM TURN EMPHASIZED MODE ON

20 PRINT CHR\$ (27);"k"; CHR\$ (0)

30 PRINT "LQ FONT 0 CANON BJC-240 EPSON LQ EMULATION MODE abcdefgh  
1234567890)(\*&~%\$#@!"

40 PRINT CHR\$ (27);"k"; CHR\$ (1)

50 PRINT "LQ FONT 1 ABCDEFGHIJKlmnopqrstuvwxyz0987654321[];/.,<>?:  
{ })(\*&~%\$#@!"

60 PRINT CHR\$ (27);"k"; CHR\$ (2)

70 PRINT "LQ FONT 2 abcdefghijklMNOPQRSTUVWXYZ1234567890-=\_+)(\*&~%  
\$#@!"

80 PRINT CHR\$ (27);"k"; CHR\$ (3)

90 PRINT "LQ FONT 3 ABCDEFGHIJKLMNOPqrstuvwxyz,./;'[]=0-0986655443  
3221"

95 PRINT CHR\$ (27);"k"; CHR\$ (4)

100 PRINT "LQ FONT 4 *The quick brown fox jumped OVER THE LAZY DOG*  
1234567859!@#\$\$%^&\*()-=[ ]{}';:/.,<>?\!"

101 PRINT CHR\$ (27);"k"; CHR\$ (3)

105 LIST

110 PR# 0



LQ FONT 0 ABCDEFGHIJKLMNOPQRSTUVWXYZ abc  
defghijklmnopqrstuvwxyz 1234567890-= !@#  
\$%^&\* ( )\_+

LQ FONT 0 Test of ITALICS

LQ FONT 1 Double-width 5cpi EXAMPLE 1234  
567890!@#\$%^&\* ( )

LQ FONT 1 UNDERLINING example

LQ FONT 2 DOUBLE-WIDTH 5CPI ABCDEFGHIJKL  
MNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxy  
z ] [ ' ; / . , < > ? : } { = - 0 9 8 7 6 5 4 3 2 1 ! @ # \$ % ^ & \* ( ) \_ +

LQ FONT 2 Superscript MODE 1234567890

LQ FONT 3 The QUICK BROWN FOX jumped ove  
r the lazy dog 1234567890!@#\$%^&\* ( )\_+

LQ FONT 3 subscript EXAMPLE

LQ FONT 4 ABCDEFGHIJKLMNOPQRSTUVWXYZabcd  
efghijklmnopqrstuvwxyz1234567890-=!@#\$%^  
&\* ( )\_+' ; ] [ / . , < > ? : { } \ |

LQ FONT 4 5cpi italic TEST PRINT sample  
1234567890

APPLESOFT program listing LQ FONT 4 at ELITE PITCH (12cpi)

```
10 PR# 7
11 PRINT CHR$ (27);"@": REM INITIALIZE PRINTER CLEARS ALL PRIOR FORMATTING
15 PRINT CHR$ (27);"x"; CHR$ (1): REM ENABLE LQ MODE (DEFAULT PITCH IS 10CPI)
16 PRINT CHR$ (27);"w1": REM TURN DOUBLE-WIDE MODE ON
20 PRINT CHR$ (27);"k"; CHR$ (0)
30 PRINT "LQ FONT 0 ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 1234567890-= !@#$%^&* ( )_+"
35 PRINT CHR$ (27);"4": REM ENABLE ITALIC
40 PRINT "LQ FONT 0 Test of ITALICS"
45 PRINT CHR$ (27);"5": REM DISABLE ITALIC
50 PRINT CHR$ (27);"k"; CHR$ (1)
60 PRINT "LQ FONT 1 Double-width 5cpi EXAMPLE 1234567890!@#$%^&* ( )"
65 PRINT CHR$ (27);"-1": REM TURN UNDERLINE ON
70 PRINT "LQ FONT 1 UNDERLINING example"; CHR$ (27);"-0": REM UNDERLINE OFF
80 PRINT CHR$ (27);"k
```



```
; CHR$ (2)
90 PRINT "LQ FONT 2 DOUBLE-WIDTH 5CPI ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxy  
z ] [ ' ; / . , < > ? : } { = - 0 9 8 7 6 5 4 3 2 1 ! @ # $ % ^ & * ( ) _ +
```



/.,<>?:}{=-0987654321!@#\$\$%^&\*()\_+”

95 PRINT

110 PRINT "LQ FONT 2 "; CHR\$ (27);"S0";" Superscript MODE 1234567890"

115 PRINT CHR\$ (27);"T": REM CANCEL SUPERSSCRIPT

120 PRINT CHR\$ (27);"k"; CHR\$ (3)

130 PRINT "LQ FONT 3 The QUICK BROWN FOX jumped over the lazy dog 1234567890!@#\$\$%^&\*()\_+”

135 PRINT

140 PRINT "LQ FONT 3"; CHR\$ (27);"S1";" subscript EXAMPLE"

150 PRINT CHR\$ (27);"T": REM CANCEL SUBSCRIPT

160 PRINT CHR\$ (27);"k"; CHR\$ (4)

170 PRINT "LQ FONT 4 ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz1234567890-=!@#\$\$%^&\*("

)\_+';][/.,<>?:{ }\|”

175 PRINT CHR\$ (27);"4"

180 PRINT "LQ FONT 4 5cpi italic TEST PRINT sample 1234567890"

195 PRINT CHR\$ (27);"5": REM CANCEL ITALIC

196 PRINT CHR\$ (27);"W0": REM DISABLE DOUBLE-WIDE - PITCH REVERTS TO 10CPI

197 PRINT CHR\$ (27);"M": REM SELECT ELITE PITCH 12 CPI

198 PRINT : PRINT "APPLESOFT program listing LQ FONT 4 at ELITE PITCH (12cpi)": PRINT

200 LIST

210 PR# 0



*Watch video "Apple II GS with ImageWriter LQ driver prints great to  
Canon BJC-240"  <https://youtu.be/vhiBT7gkU-o>*





**BC-02**

BJ Cartridge  
Cartouche BJ  
Cartucho BJ



For / Pour

- BJ-100
- BJ-200 series
- BJC-200 series
- FAXPHONE B140/B150/  
B160/B170
- MultiPASS 1000
- FAX-B340/B360IF

**GENUINE CANON**

**Canon**

**BJC-240**  
COLOR BUBBLE JET PRINTER





# Customizing the Printer

## ■ Changing the printer emulation mode

The BJC-240 can operate in two different emulations:

- Canon BJ mode
- Epson LQ mode

This mode can only be changed with the BJ Set Up Utility disk or by following the instructions below:

Each emulation has a number of different options that affect printer operation. The table below shows the different options for each emulation and some customized emulations. Choose the emulation that best fits the way you work, then follow the procedure below to change the emulation.

	USA-LQ	USA-BJ*	Europe/Asia-LQ	Europe/Asia-BJ	UK/Asia-BJ*
Print Control Mode	LQ	BJ	LQ	BJ	BJ
Paper Selection	LTR	LTR	A4	A4	A4
Print Mode	High Quality	High Quality	High Quality	High Quality	High Quality
Smoothing	Disabled	Disabled	Disabled	Disabled	Disabled
Reduction	1/1	1/1	1/1	1/1	1/1
Auto Power Off	Disabled	Disabled	Disabled	Disabled	Disabled
Auto Power on	Disabled	Disabled	Disabled	Disabled	Disabled
Font	Roman	Courier	Roman	Courier	Courier
Code Page	437	437	437	850	437
Page Length	22 inch	11 inch	22 inch	12 inch	12 inch
Character Set	Graphics	Set1	Graphics	Set2	Set2
Text Scale	Disabled	Disabled	Disabled	Disabled	Disabled
Receive Buffer Size	40 KB	40 KB	40 KB	40 KB	40 KB
Auto Line Feed	CR=CR	CR=CR	CR=CR	CR=CR	CR=CR
Auto Carriage Ret.	—	LF=LF	—	LF=LF	LF=LF
Alt. Graphics Mode	—	Disabled	—	Disabled	Disabled
Intern.Charac. Set	USA	—	USA	—	—

\* The default setting for North America is USA-BJ. For other areas, the default setting is UK/Asia-BJ.

The Setup Utility allows you to change each option within an emulation. For details on using the Setup Utility, see page 72.

- 1 Select the emulation you want to use from the table above.

- 2 Check the following list for the setting you want to make and note the number of beeps :

LQ emulation for USA	6 beeps
BJ emulation for USA	7 beeps
LQ emulation for Europe/Asia	8 beeps
BJ emulation for Europe/Asia	9 beeps
BJ emulation for UK/Asia	10 beeps

- 3 If the printer is on, turn it off and wait for about 15 seconds.

- 4 Press and hold the POWER button until you hear the required number of beeps. Then release the button.

The printer will now use the emulation you selected until you change it again.



Note

See Chapter 4, "Advanced Printer Operations" for details on changing printer functions and emulation modes with the POWER and RESUME buttons.

## ■ Main features of the BJ and LQ modes

The main features between the BJ and LQ emulations are type size, type styles, and character sets. The tables below show the differences between the emulations.

### Fonts and pitch

This table shows the five different fonts and the different sizes (as expressed in character pitch) available for each emulation.

Font	BJ	LQ
Prestige	10 cpi*, 12 cpi, 17 cpi, PS	10 cpi*, 12 cpi, 15 cpi, 17 cpi, 20 cpi, PS
Courier	10 cpi, 12 cpi, 17 cpi, PS	10 cpi, 12 cpi, 15 cpi, 17 cpi, 20 cpi, PS
Gothic	10 cpi, 12 cpi, 17 cpi, PS	10 cpi, 12 cpi, 15 cpi, 17 cpi, 20 cpi, PS
Roman	10 cpi, 12 cpi, 17 cpi, PS	10 cpi, 12 cpi, 15 cpi, 17 cpi, 20 cpi, PS
Script	10 cpi, 12 cpi, 17 cpi, PS	10 cpi, 12 cpi, 15 cpi, 17 cpi, 20 cpi, PS

\* Characters per inch

**HOW TO CONFIGURE CANON BJC-240 TO EMULATE AN EPSON LQ-510 (24-pin dot matrix printer)**

**These instructions also apply to Canon BJC-250 & BJC-255SP**



**EPSON**

**USER'S MANUAL**

**NEW APPLE II  
INTELLIGENT PARALLEL  
INTERFACE**

**# 8133**

Y49099123000



As well as the #8133 interface commands themselves, you can also use printer control codes known as ESC/P codes. These form a standard laid down by Epson for the control of printers. It is rapidly becoming the universal standard and is often used by applications programs and programs not originally written for the Apple.

In fact, the interface commands use the ESC/P code sequences to control the printer. In most cases you will find it easier to use the **<CTRL>-I** commands because one **<CTRL>-I** command sometimes uses several ESC/P codes, but some effects can only be achieved by using the ESC/P codes directly. If you want to find out exactly which ESC/P commands are used by the interface, you should put your printer into HEX DUMP mode, as described in the printer manual, then send the command from the interface. By comparing the codes which are printed with the table of ASCII characters in your printer manual, you should then be able to identify each command.

ESC/P commands usually begin with the **<ESC>** (ESCAPE) character, which has a decimal ASCII code of 27. The **<ESC>** character is then followed by one or more ASCII characters which make up the command. For example, **<ESC> G** sets the printer to double-strike mode.

From APPLESOFT, the **<ESC> G** code can be sent using the command:

```
PRINT CHR$(27);"G"
```

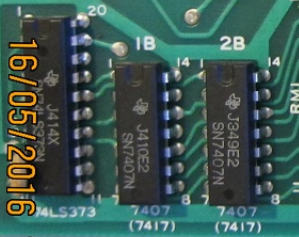
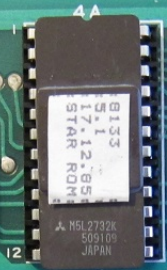
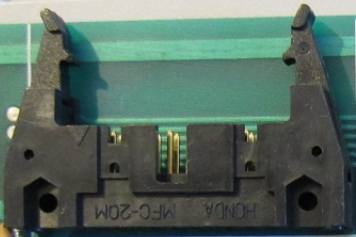
Remember to turn on the printer first, with the **PR # 1** command.

CP/M and DOS both allow the use of **<ESC>** codes. The form that the commands take depends on the program being used. For example, with MBASIC and GBASIC, use **LPRINT CHR\$(27);"G"** to send the **<ESC> G** code to the printer.

Specific examples on the use of the #8133 interface with BASIC, DOS, Pascal and CP/M are covered elsewhere in this manual.



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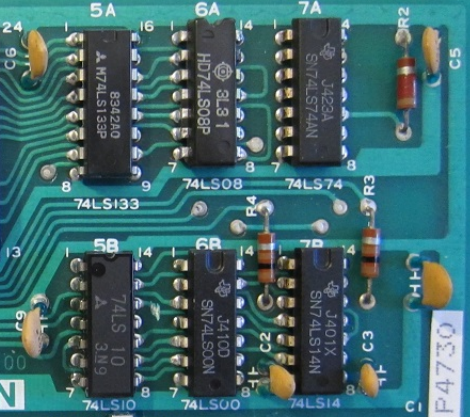


APL B  
Y49020500100  
EPSON

UNIT Y4902050000

E46669-105V

CNI 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25



P4730



