HPRT

HT Series

Programming Manual

Xiamen PRT Technology Co.Ltd.
ADD: Room 305A, Angye Building, Pionnering Park,
Torch High-Tech Zone, Xiamen, China.
Tel.: +86-(0)592-5885993
Fax: +86-(0)592-5885992
Web: www.hprt.com

Revision Records

REV.	Date	Description	Drawn	Checked	Approved
1.0	2017.10.30	Preliminary	Baochun Lin	Zheng Huang	Rex

Contents

Document Conventions 6
Introduction 6
Who Should Use This Document 6
Bar Code Commands 7
^B1 7
^B2 10
^B3 13
^B5 18
^B8 20
^B9 22
^BA 25
^BC 30
^BE 41
^BI 44
^BJ 46
^BK 48
^BL 52
^BM 55
^BP 58
^BS 61
^BU 64
^BZ 68
Characters Command 70
^A 70
^A@ 76
^CI 78
Driver Command 82
^FO 82
^GB 83
~HI~HS~HM ^XA^HW*:*.*^XZ ^XA ^HH ^XZ 85
^HW 86
~JC 88
~JD 89
~JE 90
~JL 91
~JR 92
^LR 93
^MM 94
^MN 96
^MT 98
^PH 99
^PM 100

~SD 101
~WC 102
^WD 103
Download Command 105
^DF 105
~DG 106
^FN 111
^GF 112
^ID 114
^IL 116
^IS 121
^XF 123
^XG 124
Graphic Command 125
^GB 125
^GD 127
^GE 128
^GS 129
QR Code Command 130
^B0 130
^B4 133
^B7 136
^BF 146
^BQ 148
^BX 150
Query Command 153
~HI 153
~HM 154
~HS 155
Setting Commands 159
^CF 159
^FD 162
^FH 163
^FO 164
^FR 165
^FS 166
^FT 167
^FW 168
^FX 170
^LH 171
^LL 173
^LR 174
^LT 175
^PM 178
^PO 179

~PQ 181
^PW 182
^SF 184
~TA 186
Addenda 188

Document Conventions

This section provides an overview of the entire document, contact information, and details on document structure and organization.

Introduction

This guide is the unabridged, alphabetical reference of programming commands supported in the firmware.

• For firmware upgrades go to: http://cn.hprt.com/.

• You can get the printer's firmware version by printing out a configuration label.For instructions to do so, see your printer's user guide.

Who Should Use This Document

• This Programming Guide is for programmers who are familiar working with programming languages.

Bar Code Commands

^B1

Code 11 Bar Code

Description The ^B1 command produces the Code 11 bar code, also known as USD-8 code. In a Code 11 bar code, each character is composed of three bars and two spaces, and the character set includes 10 digits and the hyphen (-).

- ^B1 supports print ratios of 2.0:1 to 3.0:1.
- Field data (^FD) is limited to the width (or length, if rotated) of the label.

Format ^B1o,e,h,f,g

Parameters	Details
o = orientation	*Accepted Values:* N = normal R = rotated 90 degrees (clockwise) I = inverted 180 degrees B = read from bottom up, 270 degrees *Default Value: current* ^FW *value*
e = check digit	*Accepted Values:* Y = 1 digit N = 2 digits *Default Value:* N
h = bar code height (in dots)	*Accepted Values:* 1 to 32000 *Default Value:* value set by ^BY
f = print interpretation line	*Accepted Values:* Y = yes N = no *Default Value:* Y
g = print interpretation line above code	*Accepted Values:* Y = yes N = no *Default Value:* N

[This parameter is only available on printers with firmware]HT100_V1.0.01.ub, HT100_V1.00.02Beta10 and HTxxV1.0.05_Beta8.img

Example • This is an example of the Code 11 bar code:

ZPL II CODE	CODE 11 BAR CODE
^XA ^FO100,100^BY3 ^B1N,N,150,Y,N ^FD123456^FS ^XZ	 ^123456118

CODE 11 BAR CODE CHARACTERS

0 1 2 3 4 5 6 7 8 9 -

Internal Start/Stop Character:Δ

When used as a stop character:

Δ is used with 1 check digit

△ is used with 2 check digits

Example • This is an example of the Code 11 bar code(Rotating Test):

```
^XA
^PW800
^LL640
^FO100,10^A0,32,25^FDCodebar 11 Orientation Test:^FS
^FO100,100^BY2^B1N,Y,100,Y,Y^FD12345678901^FS
^FO550,100^BY2^B1R,Y,100,Y,Y^FD12345678902^FS
^FO500,430^BY2^B1I,Y,100,Y,Y^FD12345678903^FS
^FO100,300^BY2^B1B,Y,100,Y,Y^FD12345678904^FS
^XZ
```

Example • This is an example of the Code 11 bar code(Check Bit Test)

1) The first bar code set the check bit to 1, and check bit is 8.

2) The second bar code set the check bit to 2, and check bit is 8.

```
^XA
^PW800
^LL640
^FO100,10^A0,32,25^FDCodebar 11 CheckDigit Test:^FS
^FO100,100^BY2^B1N,Y,100,Y,Y^FD12-12345-67890^FS
^FO100,250^BY2^B1N,N,100,Y,Y^FD12-12345-67890^FS
^XZ
```

Example • This is an example of the Code 11 bar code(Width and Height Test)

```
^XA
^LL640
^FO40,10^A0,32,25^FDCodebar 11 Size Test:^FS
^FO40,80^BY1^B1N,Y,40,Y,Y^FD12345678901^FS
^FO40,180^BY2,2^B1N,Y,80,Y,Y^FD12345678901^FS
^FO40,320^BY2,3,100^B1N,Y,120,Y,Y^FD12345678901^FS
^FO40,480^BY3,,160^B1N,Y,,Y,Y^FD12345678901^FS
^XZ
```

Example • This is an example of the Code 11 bar code(Whether the comment line is printed and the test of print location)

```
^XA
^LL640
^FO40,10^A0,32,25^FDCodebar 11 Interpretation Line Test:^FS
^FO40,80^BY2^B1N,Y,100,Y,Y^FD12345678901^FS
^FO40,220^BY2^B1N,Y,100,Y,N^FD12345678901^FS
^FO40,360^BY2^B1N,Y,100,N,Y^FD12345678901^FS
^FO40,500^BY2^B1N,Y,100,N,N^FD12345678901^FS
^XZ
```

Note: If the bar code contains invalid characters, it will not be printed.

^B2

Interleaved 2 of 5 Bar Code

Description The ^B2 command produces the Interleaved 2 of 5 bar code, a high-density, self-checking, continuous, numeric symbology.

Each data character for the Interleaved 2 of 5 bar code is composed of five elements: five bars or five spaces. Of the five elements, two are wide and three are narrow. The bar code is formed by interleaving characters formed with all spaces into characters formed with all bars.

- ^B2 supports print ratios of 2.0:1 to 3.0:1.
- Field data (^FD) is limited to the width (or length, if rotated) of the label.

Format ^B2o,h,f,g,e,j

Parameters	Details
o = orientation	*Accepted Values:* N = normal R = rotated 90 degrees (clockwise) I = inverted 180 degrees B = read from bottom up, 270 degrees *Default Value:* current ^FW value
h = bar code height (in dots)	*Accepted Values:* 1 to 32000 *Default Value:* value set by ^BY
f = print interpretation line	*Accepted Values:* Y = yes N = no *Default Value:* Y
g = print interpretation line above code	*Accepted Values:* Y = yes N = no *Default Value:* N
e = calculate and print Mod 10 check digit	*Accepted Values:* Y = yes N = no *Default Value:* N

Example • This is an example of an Interleaved 2 of 5 bar code:

ZPL II CODE	INTERLEAVED 2 OF 5 BAR CODE
^XA ^FO100,100^BY3 ^B2N,150,Y,N,N ^FD123456^FS ^XZ	 123456

INTERLEAVED 2 OF 5 BAR CODE CHARACTERS
0 1 2 3 4 5 6 7 8 9
Start/Stop (internal)

Note: If the bar code contains invalid characters, it will not be printed.

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta2.img and HTxxV1.0.05_Beta8.

Example • This is an example of an Interleaved 2 of 5 bar code(Rotating Test of Bar Code):

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDInterleaved 2 of 5 Orientation Test:^FS
^FO40,100^BY2^B2N,100,Y,N,N^FD1234567890^FS
^FO600,100^BY2^B2R,100,Y,N,N^FD1234567890^FS
^FO500,400^BY2^B2I,100,Y,N,N^FD1234567890^FS
^FO40,300^BY2^B2B,100,Y,N,N^FD1234567890^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.0.01.ub, HT100_V1.00.02beta10 and htxxV1.0.05_Beta8.

Example • This is an example of an Interleaved 2 of 5 bar code(Width and Height Test of Bar Code):

```
^XA
^LL640
^FO40,10^A0,32,25^FDInterleaved 2 of 5 Size Test:^FS
^FO40,80^BY1^B2N,40,Y,Y,N^FD1234567890^FS
^FO40,180^BY2,2^B2N,80,Y,Y,N^FD1234567890^FS
^FO40,320^BY2,3,100^B2N,120,Y,Y,N^FD1234567890^FS
^FO40,480^BY3,,160^B2N,,Y,Y,N^FD1234567890^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.0.01.ub, HT100_V1.00.02beta10 and htxxV1.0.05_Beta8.

Example • This is an example of an Interleaved 2 of 5 bar code(Whether the comment line is printed and the test of print location):

```
^XA
^LL640
^FO40,10^A0,32,25^FDInterleaved 2 of 5 Interpretation Line Test:^FS
^FO40,80^BY2^B2N,80,Y,Y,N^FD1234567890^FS
^FO40,180^BY2^B2N,80,Y,N,N^FD1234567890^FS
^FO40,320^BY2^B2N,80,N,Y,N^FD1234567890^FS
^FO40,480^BY2^B2N,80,N,Y,N^FD1234567890^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.0.01.ub, HT100_V1.00.02beta10 and htxxV1.0.05_Beta8.

Example • This is an example of an Interleaved 2 of 5 bar code(Check Bit Test of Mod 10 Bar Code)

1) The first bar code is not checked.
2) The second bar code has check code, which check code is 2. Then plus the check code, a total of 9 bits, so make up 0 in the first place.
3) The third bar code has check code, which check code is 1. Then plus the check code, a total of 11 bits, so make up 0 in the first place.
4) The fourth bar code has check code, which check code is 8. Then plus the check code, a total of 11 bits, so make up 0 in the first place.

```
^XA
^LL640
^FO40,10^A0,32,25^FDInterleaved 2 of 5 Mod 10 check digit Test:^FS
^FO40,80^BY2^B2N,80,Y,Y,N^FD25169858^FS
^FO40,220^BY2^B2N,80,Y,Y,Y^FD25169858^FS
^FO40,360^BY2^B2N,80,Y,Y,Y^FD3034567890^FS
^FO40,500^BY2^B2N,80,Y,Y,Y^FD1234567897^FS
^XZ
```

[This parameter is only available on printers with firmware]htxxV1.0.05_Beta2.img and htxxV1.0.05_Beta8.

Comments The total number of digits in an Interleaved 2 of 5 bar code must be even. The printer automatically adds a leading 0 (zero) if an odd number of digits is received.

^B3

Code 39 Bar Code

Description The Code 39 bar code is the standard for many industries, including the U.S. Department of Defense. It is one of three symbologies identified in the American National Standards Institute (ANSI) standard MH10.8M-1983. Code 39 is also known as USD-3 Code and 3 of 9 Code.

Each character in a Code 39 bar code is composed of nine elements: five bars, four spaces, and an inter-character gap. Three of the nine elements are wide; the six remaining elements are narrow.

- ^B3 supports print ratios of 2.0:1 to 3.0:1.
- Field data (`^FD`) is limited to the width (or length, if rotated) of the label.
- Code 39 is capable of encoding the full 128-character ASCII set.

Format `^B3o,e,h,f,g`

Parameters	Details
o = orientation	*Accepted Values:* N = normal R = rotated 90 degrees (clockwise) I = inverted 180 degrees B = read from bottom up, 270 degrees *Default Value:* current ^FW value
e = Mod-43 check digit	*Accepted Values:* Y = yes N = no *Default Value:* N
h = bar code height (in dots)	*Accepted Values:* 1 to 32000 *Default Value:* value set by ^BY
f = print interpretation line	*Accepted Values:* *Y = yes* *N = no* *Default Value: Y*
g = print interpretation line above code	*Accepted Values:* Y = yes N = no *Default Value:* N

[This parameter is only available on printers with firmware]HT100_V1.0.01.ub, HT100_V1.00.02beta10, and htxxV1.0.05_Beta8.

Example • This is an example of a Code 39 bar code:

ZPL II CODE	CODE 39 BAR CODE
^XA ^FO100,100^BY3 ^B3N,N,100,Y,N ^FD123ABC^FS ^XZ	

CODE 39 BAR CODE CHARACTERS

	0	1	2	3	4	5	6	7	8	9
A	B	C	D	E	F	G	H	I	J	K
L	M	N	O	P	Q	R	S	T	U	V
W	X	Y	Z							
-	.	$	/	+	%	Space				

Comments Extended ASCII is a function of the scanner, not of the bar code. Your scanner must have extended ASCII enabled for this feature to work. To enable extended ASCII in the Code 39, you must first encode +$ in your ^FD statement. To disable extended ASCII, you must encode -$ in your ^FD statement.

Example • This example encodes a carriage return with line feed into a Code 39 bar code:

ZPL II CODE	GENERATED LABELS
^XA ^FO20,20 ^B3N,N,100,Y ^FDTEST+$$M$J-$^FS ^XZ	

Example • This is an example of Rotating Test:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDCode 39 Orientation Test:^FS
^FO40,100^BY2^B3N,N,100,Y,Y^FD123-ABC.0^FS
^FO600,100^BY2^B3R,N,100,Y,Y^FD123-ABC.0^FS
^FO500,500^BY2^B3I,N,100,Y,Y^FD123-ABC.0^FS
^FO40,300^BY2^B3B,N,100,Y,Y^FD123-ABC.0^FS
^XZ
```

Example • This is an example of Width and Height Test:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDCode 39 Size Test^FS
^FO40,80^BY1^B3N,N,40,Y,Y^FD123-ABC^FS
^FO40,180^BY2,2^B3N,N,80,Y,Y^FD123-ABC^FS
^FO40,320^BY2,3,100^B3N,N,120,Y,Y^FD123-ABC^FS
^FO40,480^BY3,,160^B3N,N,,Y,Y^FD123-ABC^FS
^XZ
```

Example • This is an example of an Interleaved 2 of 5 bar code(Whether the comment line is printed and the test of print location):

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDCode 39 Interpretation Line Test^FS
^FO40,80^BY2^B3N,N,100,Y,Y^FD123-ABC^FS
^FO40,220^BY2^B3N,N,100,Y,N^FD123-ABC^FS
^FO40,360^BY2^B3N,N,100,N,Y^FD123-ABC^FS
^FO40,500^BY2^B3N,N,100,N,N^FD123-ABC^FS
^XZ
```

Example • This is an example of Check Test of Mod-43.

1)The first bar code is not checked.

2)The second bar code has check code, which is W.

3)The third bar code has check code, which is U.

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDCode 39 Mod 43 check digit Test^FS
^FO40,80^BY2^B3N,N,100,Y,Y^FD123-ABC^FS
^FO40,220^BY2^B3N,Y,100,Y,Y^FD123-ABC^FS
^FO40,360^BY2^B3N,Y,100,Y,Y^FDAZ0123.5689^FS
^XZ
```

Full ASCII Mode for Code 39

Code 39 can generate the full 128-character ASCII set using paired characters as shown in these tables:

Table 1 • Code 39 Full ASCII Mode

ASCII	Code 39
SOH	$A
STX	$B
ETX	$C
EOT	$D
ENQ	$E
ACK	$F
BEL	$G
BS	$H
HT	$I
LF	$J
VT	$K
FF	$L
CR	$M
SO	$N
SI	$O
DLE	$P
DC1	$Q
DC2	$R
DC3	$S
DC4	$T
NAK	$U
SYN	$V
ETB	$W
CAN	$X
EM	$Y
SUB	$Z
ESC	%A
FS	%B
FS	%C
RS	%D
US	%E

ASCII	Code 39
SP	Space
!	/A
"	/B
#	/C
$	/D
%	/E
&	/F
'	/G
(	/H
)	/I
*	/J
++	/K
,	/L
-	-
.	.
/	/O
0	O
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
:	/Z
;	%F
<	%G
=	%H
>	%I
?	%J

Table 2 • Code 39 Full ASCII Mode

ASCII	Code 39
@	%V
A	A
B	B
C	C
D	D
E	E
F	F
G	G
H	H
I	I
J	J
K	K
L	L
M	M
N	N
O	O
P	P
Q	Q
R	R
S	S
T	T
U	U
V	V
W	W
X	X
Y	Y
Z	Z
[	%K
\	%L
]	%M
^	%N
_	%O

ASCII	Code 39
`	%W
a	+A
b	+B
c	+C
d	+D
e	+E
f	+F
g	+G
h	+H
I	+I
j	+J
k	+K
l	+L
m	+M
n	+N
o	+O
p	+P
q	+Q
r	+R
s	+S
t	+T
u	+U
v	+V
w	+W
x	+X
y	+Y
z	+Z
{	%P
|	%Q
}	%R
~	%S
DEL	%T, %X

^B5

Planet Code bar code

Description The ^B5 command is supported in all printers as a resident bar code.

Format ^B5o,h,f,g

Note • Accepted bar code characters are 0 - 9.

Parameters	Details
o = orientation code	*Accepted Values:* N = normal R = rotated I = inverted 180 degrees B = read from bottom up, 270 degrees *Default Value:* current ^FW value
h = bar code height (in dots)	*Accepted Values:* 1 to 9999 *Default Value:* value set by ^BY
f = interpretation line	*Accepted Values:* N = no Y = yes *Default Value:* N
g = determines if the interpretation line is printed above the bar code	*Accepted Values:* N = no Y = yes *Default Value:* N

[This parameter is only available on printers with firmware]HT100_V1.0.01.ub, HT100_V1.00.02beta10, and htxxV1.0.05_Beta8.

Example • This is an example of Rotating Test of a Planet Code bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FD Planet Code orientation Test: ^FS
^FO40,100^BY2^B5N,100,Y,N^FD12345678901^FS
^FO500,100^BY2^B5R,100,Y,N^FD12345678901^FS
^FO300,500^BY2^B5I,100,Y,N^FD12345678901^FS
^FO40,300^BY2^B5B,100,Y,N^FD12345678901^FS
^XZ
```

Example • This is an example of Height and Width Test of a Planet Code bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FD Planet Code Size Test: ^FS
^FO40,80^BY1^B5N,40,Y,Y^FD12345678901^FS
^FO40,180^BY2,2^B5N,80,Y,Y^FD12345678901^FS
^FO40,320^BY2,3,100^B5N,120,Y,Y^FD12345678901^FS
^FO40,500^BY3,,160^B5N,,Y,Y^FD12345678901^FS
^XZ
```

Example • This is an example of Comment line and printing position test of a Planet Code bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FD Planet Code Interpretation Line Test:^FS
^FO40,80^BY2^B5N,100,Y,Y^FD12345678901^FS
^FO40,220^BY2^B5N,100,Y,N^FD12345678901^FS
^FO40,360^BY2^B5N,100,N,Y^FD12345678901^FS
^FO40,500^BY2^B5N,100,N,N^FD12345678901^FS
^XZ
```

^B8

EAN-8 Bar Code

Description The ^B8 command is the shortened version of the EAN-13 bar code. EAN is an acronym for European Article Numbering. Each character in the EAN-8 bar code is composed of four elements: two bars and two spaces.

• ^B8 supports a fixed ratio.

• Field data (^FD) is limited to exactly seven characters. ZPL II automatically pads or truncates on the left with zeros to achieve the required number of characters.

• When using JAN-8 (Japanese Article Numbering), a specialized application of EAN-8, the first two non-zero digits sent to the printer are always 49.

Format ^B8o,h,f,g

Parameters	Details
o = orientation	*Accepted Values:* N = normal R = rotated 90 degrees (clockwise) I = inverted 180 degrees B = read from bottom up, 270 degrees *Default Value:* current ^FW value
h = bar code height (in dots)	*Accepted Values:* 1 to 32000 *Default Value:* value set by ^BY
f = print interpretation line	*Accepted Values:* N = no Y = yes *Default Value:* Y
g = print interpretation line above code	*Accepted Values:* N = no Y = yes *Default Value:* N

[This parameter is only available on printers with firmware]HT100_V1.0.01.ub, HT100_V1.00.02beta10, and HtxxV1.0.05_Beta8.

Example • This is an example of Rotating Test of EAN-8 bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDEAN-8 orientation Test:^FS
^FO40,80^BY2^B8N,100,Y,Y^FD1234567^FS
^FO350,80^BY2^B8R,100,Y,Y^FD1234567^FS
^FO40,300^BY2^B8I,100,Y,Y^FD1234567^FS
^FO350,300^BY2^B8B,100,Y,Y^FD1234567^FS
^XZ
```

Example • This is an example of Height and Width Test of EAN-8 bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDEAN-8 Size Test:^FS
^FO40,80^BY1^B8N,40,Y,Y^FD1234567^FS
^FO40,180^BY2,2^B8N,80,Y,Y^FD1234567^FS
^FO40,320^BY2,3,100^B8N,120,Y,Y^FD1234567^FS
^FO40,500^BY3,,160^B8N,,Y,Y^FD1234567^FS
^XZ
```

Example • This is an example of Comment line and printing position test of EAN-8 bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDEAN-8 Interpretation Line Test:^FS
^FO40,80^BY2^B8N,100,Y,Y^FD1234567^FS
^FO440,80^BY2^B8N,100,Y,N^FD1234567^FS
^FO40,220^BY2^B8N,100,N,Y^FD1234567^FS
^FO440,220^BY2^B8N,100,N,N^FD1234567^FS
^XZ
```

^B9

UPC-E Bar Code

Description The ^B9 command produces a variation of the UPC symbology used for number system 0. It is a shortened version of the UPC-A bar code, where zeros are suppressed, resulting in codes that require less printing space. The 6 dot/mm, 12 dot/mm, and 24 dot/mm printheads produce the UPC and EAN symbologies at 100 percent of their size. However, an 8 dot/mm printhead produces the UPC and EAN symbologies at a magnification factor of 77 percent.

Each character in a UPC-E bar code is composed of four elements: two bars and two spaces.
The ^BY command must be used to specify the width of the narrow bar.
• ^B9 supports a fixed ratio.
• Field data (^FD) is limited to exactly 10 characters, requiring a five-digit manufacturer's code and five-digit product code.
• When using the zero-suppressed versions of UPC, you must enter the full 10-character sequence. ZPL II calculates and prints the shortened version.

Format ^B9,h,f,g,e

Parameters	Details
o = orientation	*Accepted Values:* N = normal R = rotated 90 degrees (clockwise) I = inverted 180 degrees B = read from bottom up, 270 degrees *Default Value:* current ^FW value
h = bar code height (in dots)	*Accepted Values:* 1 to 32000 *Default Value:* value set by ^BY
f = print interpretation line	*Accepted Values:* N = no Y = yes *Default Value:* Y
g = print interpretation line above code	*Accepted Values:* N = no Y = yes *Default Value:* N
e = print check digit	*Accepted Values:* N = no Y = yes *Default Value:* Y

Example • This is an example of a UPC-E bar code:

ZPL II CODE	UPC-E BAR CODE
^XA ^FO150,100^BY3 ^B9N,100,Y,N,Y ^FD1230000045^FS ^XZ	

UPC-E BAR CODE CHARACTERS									
0	1	2	3	4	5	6	7	8	9

[This parameter is only available on printers with firmware]HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Example • This is an example of Rotating Test of UPC-E bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDUPC-E orientation Test:^FS
^FO40,80^BY2^B9N,100,Y,N,Y^FD1230000045^FS
^FO450,80^BY2^B9R,100,Y,N,Y^FD1230000045^FS
^FO40,300^BY2^B9I,100,Y,N,Y^FD1230000045^FS
^FO450,300^BY2^B9B,100,Y,N,Y^FD1230000045^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.0.01.ub, HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Example • This is an example of Height and Width Test of UPC-E bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDUPC-E Size Test:^FS
^FO40,80^BY1^B9N,40,Y,N,Y^FD34100002312^FS
^FO40,180^BY2,2^B9N,80,Y,N,Y^FD34100002312^FS
^FO40,320^BY2,3,100^B9N,120,Y,N,Y^FD34100002312^FS
^FO440,80^BY3,,160^B9N,,Y,N,Y^FD34100002312^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.0.01.ub, HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Example • This is an example of Comment Line and Printing Position Test of UPC-E bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDUPC-E Interpretation Line Test:^FS
^FO40,80^BY2^B9N,100,Y,Y,Y^FD34100002312^FS
^FO440,80^BY2^B9N,100,Y,N,Y^FD34100002312^FS
^FO40,300^BY2^B9N,100,N,N,Y^FD34100002312^FS
^FO440,300^BY2^B9N,100,N,N,Y^FD34100002312^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Rules for Proper Product Code Numbers

• If the last three digits in the manufacturer's number are 000, 100, or 200, valid product code numbers are 00000 to 00999.

• If the last three digits in the manufacturer's number are 300, 400, 500, 600, 700, 800, or 900, valid product code numbers are 00000 to 00099.

• If the last two digits in the manufacturer's number are 10, 20, 30, 40, 50, 60, 70, 80, or 90, valid product code numbers are 00000 to 00009.

• If the manufacturer's number does not end in zero (0), valid product code numbers are 00005 to 00009.

^BA

Code 93 Bar Code

Description The ^BA command creates a variable length, continuous symbology. The Code 93 bar code is used in many of the same applications as Code 39. It uses the full 128-character ASCII set. ZPL II, however, does not support ASCII control codes or escape sequences. It uses the substitute characters shown below.

Control Code	ZPL II Substitute
Ctrl $	&
Ctrl %	‘
Ctrl /	(
Ctrl +	)

Each character in the Code 93 bar code is composed of six elements: three bars and three spaces. Although invoked differently, the human-readable interpretation line prints as though the control code has been used.

- ^BA supports a fixed print ratio.
- Field data (^FD) is limited to the width (or length, if rotated) of the label.

Format ^BAo,h,f,g,e

Parameters	Details
o = orientation	*Accepted Values:* N = normal R = rotated 90 degrees (clockwise) I = inverted 180 degrees B = read from bottom up, 270 degrees *Default Value:* current ^FW value
h = bar code height (in dots)	*Accepted Values:* 1 to 32000 *Default Value:* value set by ^BY
f = print interpretation line	*Accepted Values:* N = no Y = yes *Default Value:* Y

g = print interpretation line above code

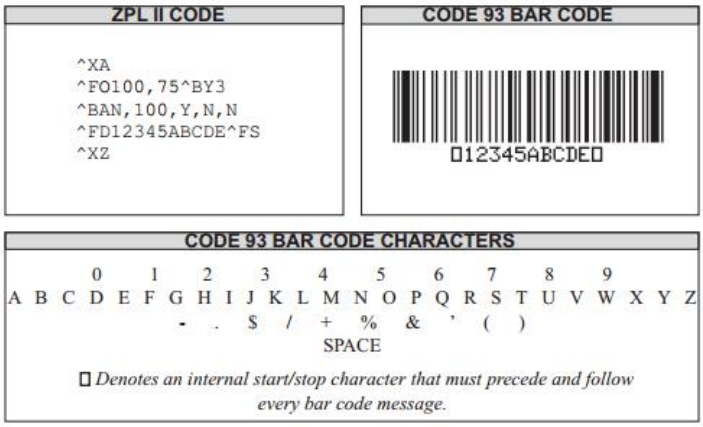
Accepted Values:
N = no
Y = yes
Default Value: N

e = print check digit

Accepted Values:
N = no
Y = yes
Default Value: N

[This parameter is only available on printers with firmware]HT100_V1.0.01.ub, HT100_V1.00.02beta10, and HtxxV1.0.05_Beta8.

Example • This is an example of a Code 93 bar code:



Example • This is an example of Rotating test of Code 93 bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDStandard Code 93 Orientation Test^FS
^FO40,100^BY2^BAN,100,Y,Y,N^FD12345ABCDE^FS
^FO600,100^BY2^BAR,100,Y,Y,N^FD12345ABCDE^FS
^FO500,440^BY2^BAI,100,Y,Y,N^FD12345ABCDE^FS
^FO40,300^BY2^BAB,100,Y,Y,N^FD12345ABCDE^FS
^XZ
```

Example • This is an example of Width and Height test of Code 93 bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FD Standard Code 93 Size Test^FS
^FO40,80^BY1^BAN,40,Y,Y,N^FD12345ABCDE^FS
^FO40,160^BY2,2^BAN,80,Y,Y,N^FD12345ABCDE^FS
^FO40,300^BY2,3,120^BAN,100,Y,Y,N^FD12345ABCDE^FS
^FO40,460^BY3,,160^BAN,,Y,Y,N^FD12345ABCDE^FS
^XZ
```

Example • This is an example of Comment line and printing position test of Code 93 bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDStandard Code 93 Interpretation Line Test^FS
^FO40,80^BY2^BAN,80,Y,Y,N^FD12345ABCDE^FS
^FO40,220^BY2^BAN,80,Y,N,N^FD12345ABCDE^FS
^FO40,360^BY2,^BAN,80,N,N,N^FD12345ABCDE^FS
^XZ
```

Example • This is an example of Check Code test of Code 93 bar code:

1) The first code doesn't print check code.
2) The second code will print check, which is EO.
3) The third code will print check, which is 3L.

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDStandard Code 93 check digit Test^FS
^FO40,80^BY2^BAN,80,Y,Y,N^FDCODE 93^FS
^FO40,200^BY2^BAN,80,Y,Y,Y^FDCODE 93^FS
^FO40,360^BY2^BAN,80,Y,Y,Y^FD1239-AZK/0^FS
^XZ
```

Comments All control codes are used in pairs.

Full ASCII Mode for Code 93

Table 4 • Code 93 Full ASCII Mode

ASCII	Code 93
NUL	'U
SOH	&A
STX	&B
ETX	&C
EOT	&D
ENQ	&E
ACK	&F
BEL	&G
BS	&H
HT	&I
LF	&J
VT	&K
FF	&L
CR	&M
SO	&N
SI	&O
DLE	&P
DC1	&Q
DC2	&R
DC3	&S
DC4	&T
NAK	&U
SYN	&V
ETB	&W
CAN	&X
EM	&Y
SUB	&Z
ESC	'A
FS	'B
FS	'C
RS	'D
US	'E

ASCII	Code 93
SP	Space
!	(A
"	(B
#	(C
$	(D
%	(E
&	(F
'	(G
(	(H
)	(I
*	(J
++	++
,	(L
-	-
.	.
/	/
0	O
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
:	(Z
;	'F
<	'G
=	'H
>	'I
?	'J

Table 5 • Code 93 Full ASCII Mode

ASCII	Code 93
@	'V
A	A
B	B
C	C
D	D
E	E
F	F
G	G
H	H
I	I
J	J
K	K
L	L
M	M
N	N
O	O
P	P
Q	Q
R	R
S	S
T	T
U	U
V	V
W	W
X	X
Y	Y
Z	Z
[	'K
\	'L
]	'M
^	'N
_	'O

ASCII	Code 93
`	'W
a	)A
b	)B
c	)C
d	)D
e	)E
f	)F
g	)G
h	)H
I	)I
j	)J
k	)K
l	)L
m	)M
n	)N
o	)O
p	)P
q	)Q
r	)R
s	)S
t	)T
u	)U
v	)V
w	)W
x	)X
y	)Y
z	)Z
{	'P
|	'Q
}	'R
~	'S
DEL	'T

^BC

Code 128 Bar Code (Subsets A, B, and C)

Description The ^BC command creates the Code 128 bar code, a high-density, variable length, continuous, alphanumeric symbology. It was designed for complexly encoded product identification.

Code 128 has three subsets of characters. There are 106 encoded printing characters in each set, and each character can have up to three different meanings, depending on the character subset being used. Each Code 128 character consists of six elements: three bars and three spaces.

- ^BC supports a fixed print ratio.
- Field data (^FD) is limited to the width (or length, if rotated) of the label.

Format ^BCo,h,f,g,e,m

Parameters	Details
o = orientation	*Accepted Values:* N = normal R = rotated 90 degrees (clockwise) I = inverted 180 degrees B = read from bottom up, 270 degrees *Default Value:* current ^FW value
h = bar code height (in dots)	*Accepted Values:* 1 to 32000 *Default Value:* value set by ^BY
f = print interpretation line	*Accepted Values:* Y (yes) or N (no) *Default Value:* Y The interpretation line can be printed in any font by placing the font command before the bar code command.
g = print interpretation line above code	*Accepted Values:* Y (yes) or N (no) *Default Value:* N
e = UCC check digit	*Accepted Values:* Y (turns on) or N (turns off) Mod 103 check digit is always there. It cannot be turned on or off. Mod 10 and 103 appear together with e turned on. *Default Value:* N

m = mode

Accepted Values:

N = no selected mode

U = UCC Case Mode

- More than 19 digits in ^FD or ^SN are eliminated.
- Fewer than 19 digits in ^FD or ^SN add zeros to the right to bring the count to 19.

This produces an invalid interpretation line.

A = Automatic Mode

This analyzes the data sent and automatically determines the best packing method. The full ASCII character set can be used in the ^FD statement — the printer determines when to shift subsets. A string of four or more numeric digits causes an automatic shift to Subset C.

D = UCC/EAN Mode (x.11.x and newer firmware)

This allows dealing with UCC/EAN with and without chained application identifiers. The code starts in the appropriate subset followed by FNC1 to indicate a UCC/EAN 128 bar code. The printer automatically strips out parentheses and spaces for encoding, but prints them in the human-readable section. The printer automatically determines if a check digit is required, calculate it, and print it. Automatically sizes the human readable.

Default Value: N

Example • This is an example of a Code 128 bar code:

1) The fifth code is A, which includes invalid character a.

2) The sixth code is C, which includes invalid character A and @.

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FD Code 128 A&B&C Test:^FS
^FO40,80^BY2^BCN,100,Y,N,N^FD>9354736371718 24^FS
^FO440,80^BY2^BCN,100,Y,N,N^FD>:CODE128^FS
^FO40,250^BY2^BCN,100,Y,N,N^FD>;00015059909918^FS
^FO440,250^BY2^BCN,100,Y,N,N^FDCODE128^FS
^FO40,420^BY2^BCN,100,Y,N,N^FD>9354736a37171824^FS
^FO440,420^BY2^BCN,100,Y,N,N^FD>;000150A599099@18^FS
^XZ
```

[This parameter is only available on printers with firmware] HtxxV1.0.05_Beta8.

Figures A and B are examples of identical bar codes, and Figure C is an example of switching from Subset C to B to A, as follows:

```
^XA
^FO100,75
^BCN,100,Y,N,N
^FDCODE128^FS
^XZ
```

Figure A: Subset B with no start character

```
^XA
^FO100,75
^BCN,100,Y,N,N
^FD>:CODE128^FS
^XZ
```

Figure B: Subset B with start character

Because Code 128 Subset B is the most commonly used subset, ZPL II defaults to Subset B if no start character is specified in the data string.

```
^XA
^FO50,50
^BY3^BCN,100,Y,N,N
^FD>;382436>6CODE128>752375152^F
^XZ
```

Figure C: Switching from Subset C to B to A

Example • This is an example of the interconversion test for A & B & C of Code 128 bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FD Code 128 A&B&C Switching Test:^FS
^FO40,80^BY2^BCN,100,Y,N,N^FD>93547363733>6Code B>5382436^FS
^FO40,220^BY2^BCN,100,Y,N,N^FD>:CODE-B>73547363733>5382436^FS
^FO40,360^BY2^BCN,100,Y,N,N^FD>;382436>6CODE128>752375152^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Example • This is an example of Rotating Test of Code 128 bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FD Code 128 Orientation Test:^FS
^FO40,80^BY2^BCN,100,Y,N,N^FD>9354736371718 24^FS
^FO600,80^BY2^BCR,100,Y,N,N^FD>:CODE128^FS
^FO500,400^BY2^BCI,100,Y,N,N^FD>;00015059909918^FS
^FO40,300^BY2^BCB,100,Y,N,N^FDCODE128^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Example • This is an example of Height and Width Test of Code 128 bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FD Code 128 Size Test:^FS
^FO40,80^BY1^BCN,40,Y,N,N^FD0123-CODE128^FS
^FO40,150^BY2,2^BCN,80,Y,N,N^FD0123-CODE128^FS
^FO40,280^BY2,3,100^BCN,120,Y,N,N^FD0123-CODE128^FS
^FO40,440^BY3,,160^BCN,,Y,N,N^FD0123-CODE128^FS
^XZ
```

[This parameter is only available on printers with firmware] htxxV1.0.05_Beta2.img and HtxxV1.0.05_Beta8.

Example • This is an example of Comment Line and Printing Position Test of Code 128 bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FD Code 128 Interpretation Line Test:^FS
^FO40,80^BY2^BCN,80,Y,Y,N^FD0123-CODE128^FS
^FO40,200^BY2^BCN,80,Y,N,N^FD0123-CODE128^FS
^FO40,360^BY2^BCN,80,N,N,N^FD0123-CODE128^FS
^FO40,480^BY2^BCN,80,N,N,N^FD0123-CODE128^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Code 128 Subsets

The Code 128 character subsets are referred to as Subset A, Subset B, and Subset C. A subset can be selected in these ways:

• A special Invocation Code can be included in the field data (^FD) string associated with that bar code.
• The desired Start Code can be placed at the beginning of the field data. If no Start Code is entered, Subset B are used.

To change subsets within a bar code, place the Invocation Code at the appropriate points within the field data (^FD) string. The new subset stays in effect until changed with the Invocation Code. For example, in Subset C, >7 in the field data changes the Subset to A.

Table 6 shows the Code 128 Invocation Codes and Start Characters for the three subsets.

Table 6 • Code 128 Invocation Characters

Invocation Code	Decimal Value	Subset A Character	Subset B Character	Subset C Character
><	62			
>0	30	>	>	
>=	94		~	
>1	95	USQ	DEL	
>2	96	FNC 3	FNC 3	
>3	97	FNC 2	FNC 2	
>4	98	SHIFT	SHIFT	
>5	99	CODE C	CODE C	
>6	100	CODE B	FNC 4	CODE B
>7	101	FNC 4	CODE A	CODE A
>8	102	FNC 1	FNC 1	FNC 1
Start Characters				
>9	103	Start Code A	(Numeric Pairs give Alpha/Numerics)	
>:	104	Start Code B	(Normal Alpha/Numeric)	
>;	105	Start Code C	(All numeric (00 - 99)	

Table 7 shows the character sets for Code 128:

Table 7 • Code 128 Character Sets

Value	Code A	Code B	Code C
0	SP	SP	00
1	!	!	01
2	"	"	02
3	#	#	03
4	$	$	04
5	%	%	05
6	&	&	06
7	'	'	07
8	(	(	08
9	)	)	09
10	*	*	10
11	+	+	11
12	,	,	12
13	-	-	13
14	.	.	14
15	/	/	15
16	0	0	16
17	1	1	17
18	2	2	18
19	3	3	19
20	4	4	20
21	5	5	21
22	6	6	22
23	7	7	23
24	8	8	24
25	9	9	25
26	:	:	26
27	;	;	27
28	<	<	28
29	=	=	29
30	>	>	30
31	?	?	31
32	@	@	32
33	A	A	33
34	B	B	34
35	C	C	35
36	D	D	36
37	E	E	37
38	F	F	38
39	G	G	39
40	H	H	40
41	I	I	41
42	J	J	42
43	K	K	43
44	L	L	44
45	M	M	45
46	N	N	46
47	O	O	47
48	P	P	48
49	Q	Q	49
50	R	R	50
51	S	S	51
52	T	T	52

Value	Code A	Code B	Code C
53	U	U	53
54	V	V	54
55	W	W	55
56	X	X	56
57	Y	Y	57
58	Z	Z	58
59	[	[	59
60	\	\	60
61	]	]	61
62	^	^	62
63		_	63
64	NŪL	`	64
65	SOH	a	65
66	STX	b	66
67	ETX	c	67
68	EOT	d	68
69	ENQ	e	69
70	ACK	f	70
71	BEL	g	71
72	BS	h	72
73	HT	i	73
74	LF	j	74
75	VT	k	75
76	FF	l	76
77	CR	m	77
78	SO	n	78
79	SI	o	79
80	DLE	p	80
81	DC1	q	81
82	DC2	r	82
83	DC3	s	83
84	DC4	t	84
85	NAK	u	85
86	SYN	v	86
87	ETB	w	87
88	CAN	x	88
89	EM	y	89
90	SUB	z	90
91	ESC	{	91
92	FS	|	92
93	GS	}	93
94	RS	~	94
95	US	DEL	95
96	FNC3	FNC3	96
97	FNC2	FNC2	97
98	SHIFT	SHIFT	98
99	Code C	Code C	99
100	Code B	FNC4	Code B
101	FNC4	Code A	Code A
102	FNC1	FNC1	FNC1
103		*START (Code A)*	
104		*START (Code B)*	
105		*START (Code C)*	

How ^BC Works Within a ZPL II Script

^XA – the first command starts the label format.

^FO100,75 – the second command sets the field origin at 100 dots across the x-axis and 75 dots down the y-axis from the upper-left corner.

^BCN,100,Y,N,N – the third command calls for a Code 128 bar code to be printed with no rotation (N) and a height of 100 dots. An interpretation line is printed (Y) below the bar code (N). No UCC check digit is used (N).

^FDCODE128^FS (Figure A) ^FD>:CODE128^FS (Figure B) – the field data command specifies the content of the bar code.

^XZ – the last command ends the field data and indicates the end of the label.

The interpretation line prints below the code with the UCC check digit turned off.

The ^FD command for Figure A does not specify any subset, so Subset B is used. In Figure B, the ^FD command specifically calls Subset B with the >: Start Code. Although ZPL II defaults to Code B, it is good practice to include the Invocation Codes in the command.

Code 128 – Subset B is programmed directly as ASCII text, except for values greater than 94 decimal and a few special characters that must be programmed using the invocation codes. Those characters are:

^ > ~

Example • Code 128 – Subsets A and C

Code 128, Subsets A and C are programmed in pairs of digits, 00 to 99, in the field data string.

In Subset A, each pair of digits results in a single character being encoded in the bar code; in Subset C, characters are printed as entered. Figure E below is an example of Subset A (>9 is the Start Code for Subset A).

Nonintegers programmed as the first character of a digit pair (D2) are ignored. However, nonintegers programmed as the second character of a digit pair (2D) invalidate the entire digit pair, and the pair is ignored. An extra unpaired digit in the field data string just before a code shift is also ignored.

Figure C and Figure D below are examples of Subset C. Notice that the bar codes are identical. In the program code for Figure D, the D is ignored and the 2 is paired with the 4.

```
^XA
^FO100,75^BY3
^BCN,100,Y,N,N
^FD>;382436^FS
^XZ
```

Figure C: Subset C with normal data

```
^XA
^FO100,75^BY3
^BCN,100,Y,N,N
^FD>;38D2436^FS
^XZ
```

Figure D: Subset C with ignored alpha character

```
^XA
^FO100,75^BY3
^BCN,100,Y,N,N
^FD>9354736371718 24^FS
^XZ
```

Figure E: Subset A

The UCC/EAN-128 Symbology

The symbology specified for the representation of Application Identifier data is UCC/EAN- 128, a variant of Code 128, exclusively reserved to EAN International and the Uniform Code Council (UCC).

Note • It is not intended to be used for data to be scanned at the point of sales in retail outlets.

UCC/EAN-128 offers several advantages. It is one of the most complete, alphanumeric, onedimensional symbologies available today. The use of three different character sets (A, B and C), facilitates the encoding of the full 128 ASCII character set. Code 128 is one of the most compact linear bar code symbologies. Character set C enables numeric data to be represented in a double density mode. In this mode, two digits are represented by only one symbol character saving valuable space. The code is concatenated. That means that multiple AIs and their fields may be combined into a single bar code. The code is also very reliable. Code 128 symbols use two independent self-checking features which improves printing and scanning reliability.

UCC/EAN-128 bar codes always contain a special non-data character known as function 1 (FNC 1), which follows the start character of the bar code. It enables scanners and processing software to auto-discriminate between UCC/EAN-128 and other bar code symbologies, and subsequently only process relevant data.

The UCC/EAN-128 bar code is made up of a leading quiet zone, a Code 128 start character A, B, or C, a FNC 1 character, Data (Application Identifier plus data field), a symbol check character, a stop character, and a trailing quiet zone.

UCC/EAN, UCC/128 are a couple of ways you'll hear someone refer to the code. This just indicates that the code is structured as dictated by the application identifiers that are used.

SSCC (Serial Shipping Container Code) formatted following the data structure layout for Application Identifier 00. See Table 8, UCC Application Identifier Table on page 93. It could be 00 which is the SSCC code. The customer needs to let us know what application identifiers are used for their bar code so we can help them.

There are several ways of writing the code to print the code to Application Identifier '00' structure.

Using N for the mode (m) parameter

Example • This example shows with application identifier 00 structure:

ZPL II CODE	N FOR THE M PARAMETER
^XA ^FO90,200^BY4 ^BCN,256,Y,N,Y,N ^FD>;>8001234512345123451234512^FS ^XZ	 00123451234512345120

• >;>8' sets it to subset C, function 1
• '00' is the application identifier followed by '17 characters', the check digit is selected using the 'Y' for the (e) parameter to automatically print the 20th character.
• you are not limited to 19 characters with mode set to N

Using U for the mode (m) parameter

Example • The example shows the application identifier 00 format:

ZPL II CODE	U FOR THE M PARAMETER
^XA ^FO90,200 ^BY4^BC,256,Y,N,,U ^FD0012345123451234512^FS ^XZ	 00123451234512345120

UCC Case Mode
• Choosing U selects UCC Case mode. You will have exactly 19 characters available in ^FD.
• Subset C using FNC1 values are automatically selected.
• Check digit is automatically inserted.

Using D for the mode (m) parameter

Example • This example shows application identifier 00 format:

ZPL II CODE	D FOR THE M PARAMETER
^XA ^FO50,200^BCN,150,Y,N,,D ^FD(00)10084423 7449200940^FS ^XZ	 (00) 1 0084423 7449200941

(0 at end of field data is a bogus character that is inserted as a place holder for the check digit the printer will automatically insert.

• Subset C using FNC1 values are automatically selected.

• Parentheses and spaces can be in the field data. '00' application identifier, followed by 17 characters, followed by bogus check digit place holder.

• Check digit is automatically inserted. The printer will automatically calculate the check digit and put it into the bar code and interpretation line.

• The interpretation line will also show the parentheses and spaces but will strip them out from the actual bar code.

^BE

EAN-13 Bar Code

Description The ^BE command is similar to the UPC-A bar code. It is widely used throughout Europe and Japan in the retail marketplace.

The EAN-13 bar code has 12 data characters, one more data character than the UPC-A code. An EAN-13 symbol contains the same number of bars as the UPC-A, but encodes a 13th digit into a parity pattern of the left-hand six digits. This 13th digit, in combination with the 12th digit, represents a country code.

• ^BE supports fixed print ratios.

• Field data (^FD) is limited to exactly 12 characters. ZPL II automatically truncates or pads on the left with zeros to achieve the required number of characters.

• When using JAN-13 (Japanese Article Numbering), a specialized application of EAN-13, the first two non-zero digits sent to the printer must be 49.

Format ^BEo,h,f,g

Note • Use Interleaved 2 of 5 for UCC and EAN 14.

Parameters	Details
o = orientation	*Accepted Values:* N = normal R = rotated 90 degrees (clockwise) I = inverted 180 degrees B = read from bottom up, 270 degrees *Default Value:* current ^FW value
h = bar code height (in dots)	*Accepted Values:* 1 to 32000 *Default Value:* value set by ^BY
f = print interpretation line	*Accepted Values:* N = no Y = yes *Default Value:* Y
g = print interpretation line above code	*Accepted Values:* N = no Y = yes *Default Value:* N

Example • This is an example of an EAN-13 bar code:

ZPL II CODE	EAN-13 BAR CODE
^XA ^FO100,100^BY3 ^BEN,100,Y,N ^FD12345678^FS ^XZ	

EAN-13 BAR CODE CHARACTERS
0 1 2 3 4 5 6 7 8 9

Note: Only when the data bits is 12bits or less than 12 bits to print, less than 12 bits can complement 0 in front of it and that can be scanned.

[This parameter is only available on printers with firmware]HtxxV1.0.05_Beta8.

Example • This is an example of Rotating Test of EAN-13 bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDEAN-13 orientation Test:^FS
^FO40,80^BY2^BEN,100,Y,Y^FD123456789065^FS
^FO350,80^BY2^BER,100,Y,Y^FD123456789065^FS
^FO40,300^BY2^BEI,100,Y,Y^FD123456789065^FS
^FO350,300^BY2^BEB,100,Y,Y^FD123456789065^FS
^XZ
```

[This parameter is only available on printers with firmware]HtxxV1.0.05_Beta2.img and HtxxV1.0.05_Beta8.

Example • This is an example of Height and Width Test of EAN-13 bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDEAN-13 Size Test:^FS
^FO40,80^BY1^BEN,40,Y,Y^FD123456789065^FS
^FO40,180^BY2,2^BEN,80,Y,Y^FD123456789065^FS
^FO40,320^BY2,3,100^BEN,120,Y,Y^FD123456789065^FS
^FO440,80^BY3,,160^BEN,,Y,Y^FD123456789065^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Example • This is an example of Comment Line and Printing position Test of EAN-13 bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDEAN-13 Interpretation Line Test:^FS
^FO40,80^BY2^BEN,100,Y,Y^FD123456789065^FS
^FO440,80^BY2^BEN,100,Y,N^FD123456789065^FS
^FO40,220^BY2^BEN,100,N,Y^FD123456789065^FS
^FO440,220^BY2^BEN,100,N,N^FD123456789065^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

^BI

Industrial 2 of 5 Bar Codes

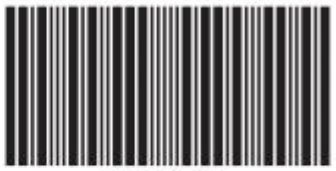
Description The ^BI command is a discrete, self-checking, continuous numeric symbology. The Industrial 2 of 5 bar code has been in use the longest of the 2 of 5 family of bar codes. Of that family, the Standard 2 of 5 (^BJ) and Interleaved 2 of 5 (^B2) bar codes are also available in ZPL II.

With Industrial 2 of 5, all of the information is contained in the bars. Two bar widths are employed in this code, the wide bar measuring three times the width of the narrow bar.
• ^BI supports a print ratio of 2.0:1 to 3.0:1.
• Field data (^FD) is limited to the width (or length, if rotated) of the label.

Format ^BIo,h,f,g

Parameters	Details
o = orientation	*Accepted Values:* N = normal R = rotated 90 degrees (clockwise) I = inverted 180 degrees B = read from bottom up, 270 degrees *Default Value:* current ^FW value
h = bar code height (in dots)	*Accepted Values:* 1 to 32000 *Default Value:* value set by ^BY
f = print interpretation line	*Accepted Values:* N = no Y = yes *Default Value:* Y
g = print interpretation line above code	*Accepted Values:* N = no Y = yes *Default Value:* N

Example • This is an example of an Industrial 2 of 5 bar code:

ZPL II CODE	INDUSTRIAL 2 OF 5 BAR CODE
^XA ^FO100,100^BY3 ^BIN,150,Y,N ^FD123456^FS ^XZ	 123456

INDUSTRIAL 2 OF 5 BAR CODE CHARACTERS

0 1 2 3 4 5 6 7 8 9

Start/Stop (internal)

^BJ

Standard 2 of 5 Bar Code

Description The ^BJ command is a discrete, self-checking, continuous numeric symbology.

With Standard 2 of 5, all of the information is contained in the bars. Two bar widths are employed in this code, the wide bar measuring three times the width of the narrow bar.

- ^BJ supports a print ratio of 2.0:1 to 3.0:1.
- Field data (^FD) is limited to the width (or length, if rotated) of the label.

Format ^BJo,h,f,g

o = orientation	*Accepted Values:* N = normal R = rotated 90 degrees (clockwise) I = inverted 180 degrees B = read from bottom up, 270 degrees *Default Value:* current ^FW value
h = bar code height (in dots)	*Accepted Values:* 1 to 32000 *Default Value:* value set by ^BY
f = print interpretation line	*Accepted Values:* N = no Y = yes *Default Value:* Y
g = print interpretation line above code	*Accepted Values:* N = no Y = yes *Default Value:* N

[This parameter is only available on printers with firmware]HT100_V1.0.01.ub, HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Example This is an example of a Standard 2 of 5 bar code:

ZPL II CODE	STANDARD 2 OF 5 BAR CODE
^XA ^FO100,100^BY3 ^BJN,150,Y,N ^FD123456^FS ^XZ	 123456

STANDARD 2 OF 5 BAR CODE CHARACTERS
0 1 2 3 4 5 6 7 8 9 Start/Stop (automatic)

^BK

ANSI Codabar Bar Code

Description The ANSI Codabar bar code is used in a variety of information processing applications such as libraries, the medical industry, and overnight package delivery companies. This bar code is also known as USD-4 code, NW-7, and 2 of 7 code. It was originally developed for retail price labeling.

Each character in this code is composed of seven elements: four bars and three spaces.
Codabar bar codes use two character sets, numeric and control (start and stop) characters.
• ^BK supports a print ratio of 2.0:1 to 3.0:1.
• Field data (^FD) is limited to the width (or length, if rotated) of the label.

Format ^BKo,e,h,f,g,k,l

Parameters	Details
o = orientation	*Accepted Values:* N = normal R = rotated 90 degrees (clockwise) I = inverted 180 degrees B = read from bottom up, 270 degrees *Default Value:* current ^FW value
e = check digit	*Fixed Value:* N
h = bar code height (in dots)	*Accepted Values:* 1 to 32000 *Default Value:* value set by ^BY
f = print interpretation line	*Accepted Values:* N = no Y = yes *Default Value:* Y
g = print interpretation line above code	*Accepted Values:* N = no Y = yes *Default Value:* N
k = designates a start character	*Accepted Values:* A,B, C, D *Default Value:* A
l = designates stop character	*Accepted Values:* A,B, C, D *Default Value:* A

Example • This is an example of an ANSI Codabar bar code:

ZPL II CODE	ANSI CODABAR BAR CODE
^XA ^FO100,100^BY3 ^BKN,N,150,Y,N,A,A ^FD123456^FS ^XZ	

ANSI CODABAR BAR CODE CHARACTERS

0 1 2 3 4 5 6 7 8 9

Control Characters

\- : . $ / +

Start/Stop Characters

A B C D

Example • This is an example of an ANSI Codabar bar code:

1) The first code is A123456B.

2) The second code is A0123456789776B.

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDANSI Codabar Test:^FS
^FO40,80^BY2^BKN,N,80,Y,N,A,B^FD123456^FS
^FO40,200^BY2^BKN,N,80,Y,N,A,B^FD0123456789776^FS
^FO40,340^BY2^BKN,N,80,Y,N,A,B^FD12A45*^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Example • This is an example of Comment Line and Printing Position Test of ANSI Codabar bar code:

1) The position of comment line of the first code is above the code.
2) The position of comment line of the first code is below the code.
3) The third and fourth code does not print the comment line.

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDANSI Codabar Interpretation Line Test:^FS
^FO40,80^BY2^BKN,N,80,Y,Y,A,D^FD123456^FS
^FO40,220^BY2^BKN,N,80,Y,N,B,C^FD123456^FS
^FO40,360^BY2^BKN,N,80,N,Y,C,B^FD123456^FS
^FO40,500^BY2^BKN,N,80,N,N,D,A^FD123456^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Example • This is an example of Start and Stop Character Test of ANSI Codabar bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDANSI Codabar Start&Stop Character Test:^FS
^FO40,80^BY2^BKN,N,80,Y,N,A,B^FD01234569^FS
^FO440,80^BY2^BKN,N,80,Y,N,B,A^FD01234569^FS
^FO40,200^BY2^BKN,N,80,Y,N,C,D^FD01234569^FS
^FO440,200^BY2^BKN,N,80,Y,N,D,C^FD01234569^FS
^FO40,340^BY2^BKN,N,80,Y,N,E,E^FD01234569^FS
^FO440,340^BY2^BKN,N,80,Y,N,c,f^FD01234569^FS
^FO40,460^BY2^BKN,N,80,Y,N,3,F^FD01234569^FS
^FO440,460^BY2^BKN,N,80,Y,N^FD01234569^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.00.02beta11 and HtxxV1.0.05_Beta8.

Example • This is an example of Rotating Test of ANSI Codabar bar code:

```
^XA
^PW800
^LL640
^FO100,10^A0,32,25^FDANSI Codabar Orientation Test:^FS
^FO100,100^BY2^BKN,N,100,Y,N,A,A^FD123456^FS
^FO550,100^BY2^BKR,N,100,Y,N,B,B^FD123456^FS
^FO400,420^BY2^BKI,N,100,Y,N,C,C^FD123456^FS
^FO100,350^BY2^BKB,N,100,Y,N,D,D^FD123456^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.0.01.ub, HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Example • This is an example of Height and Width Test of ANSI Codabar bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDANSI Codabar Size Test:^FS
^FO40,80^BY1^BKN,N,40,Y,N,A,B^FD123456^FS
^FO40,180^BY2,2^BKN,N,80,Y,N,B,C^FD123456^FS
^FO40,360^BY2,3,100^BKN,N,120,Y,N,C,D^FD123456^FS
^FO440,80^BY3,,160^BKN,N,,Y,N,D,A^FD123456^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.0.01.ub, HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

^BL

LOGMARS Bar Code

Description The ^BL command is a special application of Code 39 used by the Department of Defense. LOGMARS is an acronym for Logistics Applications of Automated Marking and Reading Symbols.

• ^BL supports a print ratio of 2.0:1 to 3.0:1.

• Field data (^FD) is limited to the width (or length, if rotated) of the label. Lowercase letters in the ^FD string are converted to the supported uppercase LOGMARS characters.

Format ^BLo,h,g

Parameters	Details
o = orientation	*Accepted Values:* N = normal R = rotated 90 degrees (clockwise) I = inverted 180 degrees B = read from bottom up, 270 degrees *Default Value:* current ^FW value
h = bar code height (in dots)	*Accepted Values:* 1 to 32000 *Default Value:* value set by ^BY
g = print interpretation line above code	*Accepted Values:* N = no Y = yes *Default Value:* N

Example • This is an example of a LOGMARS bar code:

1) The first code is 019987562, which check bit is 4.
2) The second code is ABGTTKLZRT, , which check bit is C.
3) The third code is IDPL+/2.-%$12AB, which check bit is ".".
4) The forth code includes invalid character: 1, *.

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDLOGMARS Barcode Test:^FS
^FO40,80^BY2^BLN,100,N^FD019987562^FS
^FO40,220^BY2^BLN,100,N^FDABGTTKLZRT^FS
^FO40,360^BY2^BLN,100,N^FDIDPL+/2.-%$12AB^FS
^FO40,500^BY2^BLN,100,N^FDIDPl+/-%*12A5^FS
^XZ
```

Note: this command will not print, if the forth code include invalid character--A.

Example • This is an example of Rotating Test of LOGMARS bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDLOGMARS Barcode Orientation Test:^FS
^FO40,80^BY2^BLN,100,N^FDPL+/$12^FS
^FO600,100^BY2^BLR,100,N^FDPL+/$12^FS
^FO500,460^BY2^BLI,100,N^FDPL+/$12^FS
^FO40,300^BY2^BLB,100,N^FDPL+/$12^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Example • This is an example of Height and Width Test of LOGMARS bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDLOGMARS Barcode Size Test:^FS
^FO40,80^BY1^BLN,40,N^FDIDPL+/-%$12AB^FS
^FO40,150^BY2,2^BLN,80,N^FDIDPL+/-%$12AB^FS
^FO40,260^BY2,3,120^BLN,120,N^FDIDPL+/-%$12AB^FS
^FO40,420^BY3,,160^BLN,,N^FDIDPL+/-%$12AB^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Example • This is an example of Comment Line and Printing Position Test of LOGMARS bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDLOGMARS Barcode Test:^FS
^FO40,80^BY2^BLN,100,Y^FDIDPL+/-%$12AB^FS
^FO40,260^BY2^BLN,100,N^FDIDPL+/-%$12AB^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

^BM

MSI Bar Code

Description The ^BM command is a pulse-width modulated, continuous, non-selfchecking symbology. It is a variant of the Plessey bar code (^BP).
Each character in the MSI bar code is composed of eight elements: four bars and four adjacent spaces.
• ^BM supports a print ratio of 2.0:1 to 3.0:1.
• For the bar code to be valid, field data (^FD) is limited to 1 to 14 digits when parameter e is B, C, or D. ^FD is limited to 1 to 13 digits when parameter e is A, plus a quiet zone.

Format ^BMo,e,h,f,g,e2

Parameters	Details
o = orientation	*Accepted Values:* N = normal R = rotated 90 degrees (clockwise) I = inverted 180 degrees B = read from bottom up, 270 degrees *Default Value:* current ^FW value
e = check digit selection	*Accepted Values:* A = no check digits B = 1 Mod 10 C = 2 Mod 10 D = 1 Mod 11 and 1 Mod 10 *Default Value:* B
h = bar code height (in dots)	*Accepted Values:* 1 to 32000 *Default Value:* value set by ^BY
f = print interpretation line	*Accepted Values:* N = no Y = yes *Default Value:* Y
g = print interpretation line above code	*Accepted Values:* N = no Y = yes *Default Value:* N

e2 = inserts check digit into the interpretation line

Accepted Values:
N = no
Y = yes
Default Value: N

Example • This is an example of a MSI bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDMSI Code Test:^FS
^FO40,80^BY2^BMN,A,100,Y,N,N^FD1234567^FS
^FO40,220^BY2^BMN,A,100,Y,N,N^FD1234567890^FS
^FO40,360^BY2^BMN,A,100,Y,N,N^FD1234A67@^FS
^XZ
```

Note: the first and second code can print, but the third code can not print if it includes invalid character (invalid character: A & @).

[This parameter is only available on printers with firmware]HT100_V1.0.01.ub, HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Example • This is an example of Rotating Test of MSI bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDMSI Code Orientation Test:^FS
^FO40,80^BY2^BMN,A,100,Y,N,N^FD12345678^FS
^FO600,80^BY2^BMR,A,100,Y,N,N^FD12345678^FS
^FO460,420^BY2^BMI,A,100,Y,N,N^FD12345678^FS
^FO40,260^BY2^BMB,A,100,Y,N,N^FD12345678^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.0.01.ub, HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Example • This is an example of Height and Width Test of MSI bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDMSI Code Size Test:^FS
^FO40,60^BY1^BMN,A,40,Y,N,N^FD1234567890^FS
^FO40,150^BY2,2^BMN,A,80,Y,N,N^FD1234567890^FS
^FO40,270^BY2,3,100^BMN,A,120,Y,N,N^FD1234567890^FS
^FO40,440^BY3,,160^BMN,A,,Y,N,N^FD1234567890^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.0.01.ub, HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Example • This is an example of Check Code Test of MSI bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDMSI check digit Test^FS
^FO40,80^BY2^BMN,A,100,Y,N,Y^FD1234567890^FS
^FO40,220^BY2^BMN,B,100,Y,N,Y^FD1234567890^FS
^FO40,360^BY2^BMN,C,100,Y,N,Y^FD1234567890^FS
^FO40,500^BY2^BMN,D,100,Y,N,Y^FD1234567890^FS
^XZ
```

Note: the content of each code is 1234567890.

[This parameter is only available on printers with firmware]HT100_V1.00.02beta11 and HtxxV1.0.05_Beta8.

Example • This is an example of Comment Line and Printing Position Test of MSI bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDMSI check digit Print Test^FS
^FO40,80^BY2^BMN,D,100,Y,N,N^FD1234567890^FS
^FO40,220^BY2^BMN,D,100,Y,N,Y^FD1234567890^FS
^FO40,360^BY2^BMN,D,100,Y,N,Y^FD123456789^FS
^XZ
```

[This parameter is only available on printers with firmware] htxxV1.0.05_Beta2.img and HtxxV1.0.05_Beta8.

^BP

Plessey Bar Code

Description The ^BP command is a pulse-width modulated, continuous, non-selfchecking symbology.

Each character in the Plessey bar code is composed of eight elements: four bars and four adjacent spaces.

- ^BP supports a print ratio of 2.0:1 to 3.0:1.
- Field data (^FD) is limited to the width (or length, if rotated) of the label.

Format ^BPo,e,h,f,g

Parameters	Details
o = orientation	*Accepted Values:* N = normal R = rotated 90 degrees (clockwise) I = inverted 180 degrees B = read from bottom up, 270 degrees *Default Value:* current ^FW value
e = print check digit	*Accepted Values:* N = no Y = yes *Default Value:* N
h = bar code height (in dots)	*Accepted Values:* N = no Y = yes *Default Value:* N
f = print interpretation line	*Accepted Values:* N = no Y = yes *Default Value:* Y
g = print interpretation line above code	*Accepted Values:* N = no Y = yes *Default Value:* N

Example • This is an example of a Plessey bar code:

1) The first code is 12345.
2) The second code is A123BCDEF7.
3) The third code is 01234567890D0.
4) The fourth code is12a4G5$, which includes a,G,$.

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FD Plessey Code Test:^FS
^FO40,80^BY2^BPN,N,100,Y,N^FD12345^FS
^FO40,220^BY2^BPN,N,100,Y,N^FDA123BCDEF7^FS
^FO40,360^BY2^BPN,N,100,Y,N^FD01234567890D0^FS
^FO40,500^BY2^BPN,N,100,Y,N^FD12a4G5$^FS
^XZ
```

[This parameter is only available on printers with firmware] HtxxV1.0.05_Beta8.

Example • This is an example of Rotating Test of Plessey bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FD Plessey Code Orientation Test:^FS
^FO40,80^BY2^BPN,N,100,Y,N^FD123CF^FS
^FO600,80^BY2^BPR,N,100,Y,N^FD123CF^FS
^FO460,420^BY2^BPI,N,100,Y,N^FD123CF^FS
^FO40,260^BY2^BPB,N,100,Y,N^FD123CF^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Example • This is an example of Height and Width Test of Plessey bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FD Plessey Code Size Test:^FS
^FO40,60^BY1^BPN,N,40,Y,N^FD12345ABCF^FS
^FO40,150^BY2,2^BPN,N,80,Y,N^FD12345ABCF^FS
^FO40,270^BY2,3,100^BPN,N,120,Y,N^FD12345ABCF^FS
^FO40,440^BY3,,160^BPN,N,,Y,N^FD12345ABCF^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Example • This is an example of Check Code Test of Plessey bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FD Plessey Code check digit Test:^FS
^FO40,80^BY2^BPN,N,100,Y,N^FD12345ACF^FS
^FO40,220^BY2^BPN,Y,100,Y,N^FD12345ACF^FS
^FO40,360^BY2^BPN,Y,100,Y,N^FDDE0B9445679^FS
^FO40,500^BY2^BPN,Y,100,Y,N^FD12#45aCF^FS
^XZ
```

[This parameter is only available on printers with firmware] HtxxV1.0.05_Beta8.

Example • This is an example of Comment Line and Printing Position Test of Plessey bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FD Plessey Code Interpretation Line Test:^FS
^FO40,80^BY2^BPN,N,80,Y,Y^FD12345ABCF^FS
^FO40,180^BY2^BPN,N,80,Y,N^FD12345ABCF^FS
^FO40,300^BY2^BPN,N,80,N,Y^FD12345ABCF^FS
^FO40,440^BY2^BPN,N,80,N,N^FD12345ABCF^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

^BS

UPC/EAN Extensions

Description The ^BS command is the two-digit and five-digit add-on used primarily by publishers to create bar codes for ISBNs (International Standard Book Numbers). These extensions are handled as separate bar codes.

The ^BS command is designed to be used with the UPC-A bar code (^BU) and the UPC-E bar code (^B9).

• ^BS supports a fixed print ratio.

• Field data (^FD) is limited to exactly two or five characters. ZPL II automatically truncates or pads on the left with zeros to achieve the required number of characters.

Format ^BSo,h,f,g

Parameters	Details
o = orientation	*Accepted Values:* N = normal R = rotated 90 degrees (clockwise) I = inverted 180 degrees B = read from bottom up, 270 degrees *Default Value:* current ^FW value
h = bar code height (in dots)	*Accepted Values:* 1 to 32000 *Default Value:* value set by ^BY
f = print interpretation line	*Accepted Values:* N = no Y = yes *Default Value:* Y
g = print interpretation line above code	*Accepted Values:* N = no Y = yes *Default Value:* Y

Example •This is an example of a UPC/EAN Two-digit bar code:

ZPL II CODE	UPC/EAN 2-DIGIT BAR CODE
^XA ^FO100,100^BY3 ^BSN,100,Y,N ^FD12^FS ^XZ	 12

UPC/EAN 2-DIGIT BAR CODE CHARACTERS
0 1 2 3 4 5 6 7 8 9

This is an example of a UPC/EAN Five-digit bar code:

ZPL II CODE	UPC/EAN 5-DIGIT BAR CODE
^XA ^FO100,100^BY3 ^BSN,100,Y,N ^FD12345^FS ^XZ	 12345

UPC/EAN 5-DIGIT BAR CODE CHARACTERS
0 1 2 3 4 5 6 7 8 9

Care should be taken in positioning the UPC/EAN extension with respect to the UPC-A or UPC-E code to ensure the resulting composite code is within the UPC specification.

For UPC codes, with a module width of 2 (default), the field origin offsets for the extension are:

Example •This is an example of a UPC-A:

	Supplement Origin X - Offset	Adjustment Y - Offset
Normal	209 Dots	21 Dots
Rotated	0	209 Dots

This is an example of a UPC-E:

	Supplement Origin X - Offset	Adjustment Y - Offset
Normal	122 Dots	21 Dots
Rotated	0	122 Dots

Additionally, the bar code height for the extension should be 27 dots (0.135 inches) shorter than that of the primary code. A primary UPC code height of 183 dots (0.900 inches) requires an extension height of 155 dots (0.765 inches).

Example •This example illustrates how to create a normal UPC-A bar code for the value 7000002198 with an extension equal to 04414:

ZPL II CODE	UPC-A BAR CODE WITH EXTENSION
^XA ^FO100,100^BY3 ^BUN,137 ^FD07000002198^FS ^FO400,121 ^BSN,117 ^FD04414^FS ^XZ	

^BU

UPC-A Bar Code

Description The ^BU command produces a fixed length, numeric symbology. It is primarily used in the retail industry for labeling packages. The UPC-A bar code has 11 data characters. The 6 dot/mm, 12 dot/mm, and 24 dot/mm printheads produce the UPC-A bar code (UPC/EAN symbologies) at 100 percent size. However, an 8 dot/mm printhead produces the UPC/EAN symbologies at a magnification factor of 77 percent.

• ^BU supports a fixed print ratio.

• Field data (^FD) is limited to exactly 11 characters. ZPL II automatically truncates or pads on the left with zeros to achieve required number of characters.

Format ^BUo,h,f,g,e

Parameters	Details
o = orientation	*Accepted Values:* N = normal R = rotated 90 degrees (clockwise) I = inverted 180 degrees B = read from bottom up, 270 degrees *Default Value:* current ^FW value
h = bar code height (in dots)	*Accepted Values:* 1 to 9999 *Default Value:* value set by ^BY
f = print interpretation line	*Accepted Values:* N = no Y = yes *Default Value:* Y
g = print interpretation line above code	*Accepted Values:* N = no Y = yes *Default Value:* N
e = print check digit	*Accepted Values:* N = no Y = yes *Default Value:* Y

The font style of the interpretation line depends on the modulus (width of narrow bar) selected in ^BY:

Note • Zero is not allowed.

• 6 dot/mm printer: a modulus of 2 dots or greater prints with an OCR-B interpretation line; a modulus of 1 dot prints font A.
• 8 dot/mm printer: a modulus of 3 dots or greater prints with an OCR-B interpretation line; a modulus of 1 or 2 dots prints font A.
• 12 dot/mm printer: a modulus of 5 dots or greater prints with an OCR-B interpretation line; a modulus of 1, 2, 3, or 4 dots prints font A.
• 24 dot/mm printer: a modulus of 9 dots or greater prints with an OCR-B interpretation line; a modulus of 1 to 8 dots prints font A.

Example • This is an example of a UPC-A bar code:

1) The first code is 1234567893 (10bits, less than 11bits).
2) The second code is 1234567893079 (13bits, more than 12bits).
3) The third code is 123456789302 (12bits: the last one—2 is check bit).
4) The fourth code is 123456789307 (12bits: the last one is check bit).
5) The fifth code is 12345678930 (11bits: check bit is 2).
6) The sixth code is 1234*67A930 (11 bits: include * & A).

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDUPC-A Test:^FS
^FO40,80^BY2^BUN,100,Y,Y,Y^FD1234567893^FS
^FO440,80^BY2^BUN,100,Y,Y,Y^FD1234567893079^FS
^FO40,220^BY2^BUN,100,Y,Y,Y^FD123456789302^FS
^FO440,220^BY2^BUN,100,Y,Y,Y^FD123456789307^FS
^FO40,360^BY2^BUN,100,Y,Y,Y^FD12345678930^FS
^FO440,360^BY2^BUN,100,Y,Y,Y^FD1234*67A930^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.00.02beta11 and HtxxV1.0.05_Beta8.

Example • This is an example of Rotating Test of UPC-A bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDUPC-A orientation Test:^FS
^FO40,80^BY2^BUN,100,Y,Y,Y^FD07000002198^FS
^FO450,80^BY2^BUR,100,Y,Y,Y^FD07000002198^FS
^FO40,300^BY2^BUI,100,Y,Y,Y^FD07000002198^FS
^FO450,300^BY2^BUB,100,Y,Y,Y^FD07000002198^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.00.02beta11 and HtxxV1.0.05_Beta8.

Example • This is an example of Height and Width Test of UPC-A bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDUPC-A Size Test:^FS
^FO40,80^BY1^BUN,40,Y,Y,Y^FD07000002198^FS
^FO40,180^BY2,2^BUN,80,Y,Y,Y^FD07000002198^FS
^FO40,320^BY2,3,100^BUN,120,Y,Y,Y^FD07000002198^FS
^FO440,80^BY3,,160^BUN,,Y,Y,Y^FD07000002198^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.0.01.ub, HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Example • This is an example of Check Code Test of UPC-A bar code:

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDUPC-A Interpretation Line Test:^FS
^FO40,80^BY2^BUN,80,Y,Y^FD07000002198^FS
^FO40,200^BY2^BUN,80,Y,N^FD07000002198^FS
^FO40,340^BY2^BUN,80,N,Y^FD07000002198^FS
^FO40,500^BY2^BUN,80,N,N^FD07000002198^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.00.02beta10 and HtxxV1.0.05_Beta8.

Example • This is an example of Comment Line and Printing Position Test UPC-A bar code :

1) The first and second code is 12345678930 (11bits, check bit is 2).
2) The third and fourth code is 1234567893 (10bits, less than 11bits)
3) The fifth and sixth code is 123456789079 (13bits, more than 12bits).
4) The seventh and eighth code is 1234*67A930 (11bits: include * & A).

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDUPC-A check digit Test:^FS
^FO40,80^BY2^BUN,100,Y,N,N^FD12345678930^FS
^FO440,80^BY2^BUN,100,Y,N,Y^FD12345678930^FS

^FO40,220^BY2^BUN,100,Y,N,N^FD1234567893^FS
^FO440,220^BY2^BUN,100,Y,N,Y^FD1234567893^FS

^FO40,360^BY2^BUN,100,Y,N,N^FD1234567893079^FS
^FO440,360^BY2^BUN,100,Y,N,Y^FD1234567893079^FS

^FO40,500^BY2^BUN,100,Y,N,N^FD1234*67A930^FS
^FO440,500^BY2^BUN,100,Y,N,Y^FD1234*67A930^FS
^XZ
```

[This parameter is only available on printers with firmware]HT100_V1.00.02beta11 and HtxxV1.0.05_Beta8.

^BZ

POSTAL Bar Code

Description The POSTAL bar code is used to automate the handling of mail. POSTAL codes use a series of tall and short bars to represent the digits.

• ^BZ supports a print ratio of 2.0:1 to 3.0:1.

• Field data (^FD) is limited to the width (or length, if rotated) of the label and by the bar code specification.

Format ^BZo,h,f,g,t

Parameters	Details
o = orientation	*Accepted Values:* N = normal R = rotated 90 degrees (clockwise) I = inverted 180 degrees B = read from bottom up, 270 degrees *Default Value:* current ^FW value
h = bar code height (in dots)	*Accepted Values:* 1 to 32000 *Default Value:* value set by ^BY
f = print interpretation line	*Accepted Values:* N = no Y = yes *Default Value:* N
g = print interpretation line above code	*Accepted Values:* N = no Y = yes *Default Value:* N
t = Postal code type	*Accepted Values:* 0 = Postnet bar code 1 = Plant Bar Code 2 = Reserved 3 = USPS Intelligent Mail bar code *Default Value:* 0

[This parameter is only available on printers with firmware] htxxV1.0.05_Beta2.img and HtxxV1.0.05_Beta8.

Example •This is an example of a POSTNET bar code:

ZPL II CODE	POSTNET BAR CODE
^XA ^FO100,100^BY3 ^BZN,40,Y,N ^FD12345^FS ^XZ	 12345

POSTNET BAR CODE CHARACTERS
0 1 2 3 4 5 6 7 8 9

Example •This is an example of a USPS Intelligent Mail bar code:

ZPL II CODE	USPS INTELLIGENT MAIL BAR CODE
^XA ^FO100,040^BZ,40,,,3 ^FD001231234561234567 89^FS ^XZ	

Characters Command

^A

Scalable/Bitmapped Font

Description The ^A command specifies the font to use in a text field. ^A designates the font for the current ^FD statement or field. The font specified by ^A is used only once for that ^FD entry. If a value for ^A is not specified again, the default ^CF font is used for the next ^FD entry.

Format ^Afo,h,w

This table identifies the parameters for this format:

f = font name	*Accepted Values:* A through Z, and 0 to 9 Any font in the printer (downloaded, EPROM, stored fonts, fonts A through Z and 0 to 9).
o = field orientation	*Accepted Values:* N = normal R = rotated 90 degrees (clockwise) I = inverted 180 degrees B = read from bottom up, 270 degrees *Default Value:* the last accepted ^FW value or the ^FW default
h = Character Height (in dots)	**Scalable** *Accepted Values:* 10 to 32000 *Default Value:* last accepted ^CF **Bitmapped** *Accepted Values:* multiples of height from 1 to 10 times the standard height, in increments of 1 *Default Value:* last accepted ^CF
w = width (in dots)	**Scalable** *Accepted Values:* 10 to 32000 *Default Value:* last accepted ^CF **Bitmapped** *Accepted Values:* multiples of width from 1 to 10 times the standard width, in increments of 1 *Default Value:* last accepted ^CF

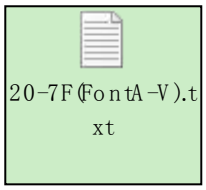
Example •This is an example of Basic Test:

```
^XA
^LL640
^LH0,0
^FO50, 50^AAN,36,20^FDFONT A, Resident Bitmap 36x20^FS
^FO50,100^ABN,33,14^FDFONT B, Resident Bitmap 33x14^FS
^FO50,150^ACN,36,20^FDFONT C, Resident Bitmap 36x20^FS
^FO50,200^ADN,36,20^FDFONT D, Resident Bitmap 36x20^FS
^FO50,250^AEN,28,15^FDFONT E, Resident OCR-B 28x15^FS
^FO50,300^AFN,26,13^FDFONT F, Resident Bitmap 26x13^FS
^FO50,340^AGN,60,40^FDFONT G, 60x40^FS
^FO50,410^AHN,41,13^FDFONT H, RESIDENT OCR-A 21X13^FS
^FO50,480^ADN,36,20^FDFONT
GS^FS^FO238,480^GS^FDABCDE^FS^FO365,480^ADN,36,20^FDSymbol 36x20^FS
^FO50,550^A0N,50,40^FDFONT 0, Scalabel Fonts 50x40^FS
^XZ

^XA
^FO50, 50^APN,20,18^FDFONT P, Resident Bitmap 20x18^FS
^FO50,100^AQN,28,24^FDFONT Q, Resident Bitmap 28x24^FS
^FO50,150^ARN,35,31^FDFONT R, Resident Bitmap 35x31^FS
^FO50,205^ASN,40,35^FDFONT S, Resident Bitmap 40x35^FS
^FO50,265^ATN,48,42^FDFONT T, Resident Bitmap 48x42^FS
^FO50,330^AUN,59,53^FDFONT U, Resident Bitmap 59x53^FS
^FO50,410^AVN,80,71^FDFONT V, Resident Bitmap 80x71^FS
^XZ
```

[This parameter is only available on printers with firmware] HtxxV1.0.05_Beta8.

Example •This is an example of Basic Test for 20-7F(Front A-V, except the bitmap front 0 and vector front GS):



[This parameter is only available on printers with firmware] HT100_V1.0.02beta11.ub, htxxV1.0.05_Beta6.img and htxxV1.0.05_Beta8.img

Example •This is an example of Character Rotating Test (90º, 180º, 270º):

```
^XA
^LL240
^FO10,30^AFN,26,13^FDAB1201^FS
^FO10,70^AFN,52,26^FDAB1202^FS
^FO10,130^AFN,104,52^FDAB1203^FS
^XZ

^XA
^FO10,30^AFI,26,13^FDAB1204^FS
^FO10,70^AFI,52,26^FDAB1205^FS
^FO10,130^AFI,104,52^FDAB1206^FS
^XZ

^XA
^LL480
^FO10,30^AFR,26,13^FDAB1207^FS
^FO50,30^AFR,52,26^FDAB1208^FS
^FO120,30^AFR,104,52^FDAB1209^FS
^FO240,30^AFB,26,13^FDAB1210^FS
^FO280,30^AFB,52,26^FDAB1211^FS
^FO350,30^AFB,104,52^FDAB1212^FS
^XZ
```

[This parameter is only available on printers with firmware] HtxxV1.0.05_Beta8.

Example •This is an example of Enlarging Front Test (Front A-V, except the bitmap front 0 and vector front GS):

[This parameter is only available on printers with firmware] HtxxV1.0.05 and HtxxV1.0.05_Beta8.

Example •This is an example of Front GS Test:

```
^XA
^LL680
^FO0,10^ADN^FDFONT GS Test:^FS
^FO20, 50^GS,16,16^FDABCDE^FS
^FO20,100^GS,24,24^FDABCDE^FS
^FO20,150^GS,32,32^FDABCDE^FS
^FO20,200^GS,48,48^FDABCDE^FS
^FO20,270^GS,56,56^FDABCDE^FS
^FO20,350^GS,72,72^FDABCDE^FS
^FO20,440^GS,96,96^FDABCDE^FS
^FO20,560^GS,100,100^FDABCDE^FS
^XZ
```

[This parameter is only available on printers with firmware] HtxxV1.0.05_Beta8.

Example •This is an example of Vector Front 0 Test:

```
^XA
^LL100
^FO0,0^A0N,15,12^FD !"#$%&'()*+,-./^FS
^FO0,15^A0N,15,12^FD0123456789:;<=>?^FS
^FO0,30^A0N,15,12^FD@ABCDEFGHIJKLMNO^FS
^FO0,45^A0N,15,12^FH^FDPQRSTUVWXYZ[\]_5E_5F^FS
^FO0,60^A0N,15,12^FD`abcdefghijklmno^FS
^FO0,75^A0N,15,12^FH^FDpqrstuvwxyz{|}_7E_7F^FS
^XZ

^XA
^LL660
^FO50, 50^A0N,16,12^FDFont-0,16x12^FS
^FO50,100^A0N,24,18^FDFont-0,24x18^FS
^FO50,150^A0N,32,24^FDFont-0,32x24^FS
^FO50,200^A0N,48,32^FDFont-0,48x32^FS
^FO50,270^A0N,56,48^FDFont-0,56x48^FS
^FO50,350^A0N,72,56^FDFont-0,72x56^FS
^FO50,450^A0N,96,72^FDFont-0,96x72^FS
^FO50,560^A0N,100,80^FDFont-0,100x80^FS
^XZ

^XA
^FO50, 50^A0N,16,32^FDFont-0,16x32^FS
^FO50,100^A0N,24,32^FDFont-0,24x32^FS
^FO50,150^A0N,32,32^FDFont-0,32x32^FS
^FO50,200^A0N,48,32^FDFont-0,48x32^FS
^FO50,270^A0N,56,32^FDFont-0,56x32^FS
^FO50,350^A0N,72,32^FDFont-0,72x32^FS
^FO50,450^A0N,96,32^FDFont-0,96x32^FS
^FO50,560^A0N,100,32^FDFont-0,100x32^FS
^XZ
```

Example •ZPL2 Resident Fonts Analysis Cases Test:

ZPL2 Resident
Fonts Analysis Ca

[This parameter is only available on printers with firmware] HtxxV1.0.05_Beta8.

Example •ZPL International Character Sets Test:

```
^XA
^LL640
^LH0,0
^MTD
    ^FO50, 10^A0,32,25^FDZPL International Character Sets^FS
    ^FO50, 50^A1,18,16^FD HEX 2 3 4 5 5 5 5 6 7 7 7 7^FS
    ^FO50, 70^A1,18,16^FD    3 0 0 B C D E 0 B C D E^FS
^CI0 ^FO50,100^A1,18,16^FH^FDCI0  # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI1 ^FO50,130^A1,18,16^FH^FDCI1  # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI2 ^FO50,160^A1,18,16^FH^FDCI2  # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI3 ^FO50,190^A1,18,16^FH^FDCI3  # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI4 ^FO50,220^A1,18,16^FH^FDCI4  # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI5 ^FO50,250^A1,18,16^FH^FDCI5  # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI6 ^FO50,280^A1,18,16^FH^FDCI6  # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI7 ^FO50,310^A1,18,16^FH^FDCI7  # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI8 ^FO50,340^A1,18,16^FH^FDCI8  # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI9 ^FO50,370^A1,18,16^FH^FDCI9  # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI10^FO50,400^A1,18,16^FH^FDCI10 # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI11^FO50,430^A1,18,16^FH^FDCI11 # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI12^FO50,460^A1,18,16^FH^FDCI12 # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI13^FO50,490^A1,18,16^FH^FDCI13 # 0 @ [ \ ] _5E ` { | } _7E^FS
^XZ
```

[This parameter is only available on printers with firmware] HtxxV1.0.05_Beta8.

^A@

Use Font Name to Call Font

Description The ^A@ command uses the complete name of a font, rather than the character designation used in ^A. Once a value for ^A@ is defined, it represents that font until a new font name is specified by ^A@.

Format `^A@o,h,w,d:o.x`

This table identifies the parameters for this format:

`o` = field orientation

Accepted Values:
- `N` = normal
- `R` = rotates 90 degrees (clockwise)
- `I` = inverted 180 degrees
- `B` = read from bottom up, 270 degrees

Default Value: `N` or the last `^FW` value

`h` = character height (in dots)

Default Value: specifies magnification by **`w`** (character width) or the last accepted `^CF` value. Uses the base height if none is specified.

Scalable The value is the height in dots of the entire character block. Magnification factors are unnecessary, because characters are scaled.

Bitmapped The value is rounded to the nearest integer multiple of the font's base height, then divided by the font's base height to give a magnification nearest limit.

`w` = width (in dots)

Default Value: specifies magnification by **`h`** (height) or the last accepted `^CF` value. Specifies the base width is used if none is specified.

Scalable The value is the width in dots of the entire character block. Magnification factors are unnecessary, because characters are scaled.

Bitmapped The value rounds to the nearest integer multiple of the font's base width, then divided by the font's base width to give a magnification nearest limit.

`d` = drive location of font

Accepted Values: `R:`, `E:`, `B:`, and `A:`

Default Value: `R:`

o = font name	*Accepted Values:* any valid font *Default Value:* if an invalid or no name is entered, the default set by ^CF is used. If no font has been specified in ^CF, font A is used. The font named carries over on all subsequent ^A@ commands without a font name.
x = extension	*Accepted Values:* .FNT = font .TTF = TrueType Font .TTE = TrueType Extension

Example • This is an example of Enlarging Chinese Front Test

```
^XA
^PW800
^LL640
^FO10,04^A@N,16,16,R:SIMSUN.TTF^FD 普瑞特 09AZaz!?^FS
^FO10,25^A@N,32,32,R:SIMSUN.TTF^FD 普瑞特-国家 09AZaz!?^FS
^FO10,60^A@N,40,40,R:SIMSUN.TTF^FD 普瑞特-国家 09AZaz!?^FS
^FO10,105^A@N,48,64,R:SIMSUN.TTF^FD 普瑞特-国家 09AZaz!?^FS
^FO10,180^A@N,64,48,R:SIMSUN.TTF^FD 普瑞特-国家 09AZaz!?^FS
^FO10,270^A@N,80,80,R:SIMSUN.TTF^FD 普瑞特-国家 09AZaz!?^FS
^FO10,380^A@N,96,118,R:SIMSUN.TTF^FD 普瑞特-国家 09AZaz!?^FS
^FO50,520^A@N,118,96,R:SIMSUN.TTF^FD 普瑞特-国家 09AZaz!?^FS
^XZ
```

^CI

Change International Font/Encoding

Description Zebra printers can print fonts using international character sets: U.S.A.1,U.S.A.2, UK, Holland, Denmark/Norway, Sweden/Finland, Germany, France 1, France 2, Italy, Spain, and several other sets, including the Unicode character set.

The ^CI command enables you to call up the international character set you want to use for printing. You can mix character sets on a label.

A character within a font can be remapped to a different numerical position.

Format `^CIa,s1,d1,s2,d2,...`

`a` = desired character set

Accepted Values:

`0` = Single Byte Encoding - U.S.A. 1 Character Set
`1` = Single Byte Encoding - U.S.A. 2 Character Set
`2` = Single Byte Encoding - U.K. Character Set
`3` = Single Byte Encoding - Holland Character Set
`4` = Single Byte Encoding - Denmark/Norway Character Set
`5` = Single Byte Encoding - Sweden/Finland Character Set
`6` = Single Byte Encoding - Germany Character Set
`7` = Single Byte Encoding - France 1 Character Set
`8` = Single Byte Encoding - France 2 Character Set
`9` = Single Byte Encoding - Italy Character Set
`10` = Single Byte Encoding - Spain Character Set

(parameter details continued on next page)

a. The encoding is controlled by the conversion table (`*.DAT`). The correct table must be present for the conversion to function. The table generated by ZTools™ is the TrueType fonts internal encoding (Unicode).
b. Shift-JIS encoding converts Shift-JIS to JIS and then looks up the JIS conversion in `JIS.DAT`. This table must be present for Shift-JIS to function.
c. Supports ASCII transparency for Asian encodings. 7F and less are treated as single byte characters. 80 to FE is treated as the first byte of a 2 byte character 8000 to FEFF in the encoding table for Unicode.
d. The `^CI17` command has been deprecated, along with the `^F8` and `^F16` commands that are required for the `^CI17` command to function. The recommended replacement is the `^CI28-30` commands.

a = desired character set (continued)	11 = Single Byte Encoding - Miscellaneous Character Set 12 = Single Byte Encoding - Japan (ASCII with Yen symbol) Character Set 13 = Zebra Code Page 850 14 = Double Byte Asian Encodings *a* 15 = Shift-JIS *b* 16 = EUC-JP and EUC-CN *a* 17 = Deprecated - UCS-2 Big Endian *d* 18 to 23 = Reserved 24 = Single Byte Asian Encodings *a* 25 = Reserved 26 = Multibyte Asian Encodings with ASCII Transparency *a* and *c* 27 = Zebra Code Page 1252 28 = Unicode (UTF-8 encoding) - Unicode Character Set 29 = Unicode (UTF-16 Big-Endian encoding) - Unicode Character Set 30 = Unicode (UTF-16 Little-Endian encoding) - Unicode Character Set 31 = Zebra Code Page 1250 is supported for scalable fonts, such as Font 0, or a downloaded TrueType font. Bitmapped fonts (including fonts A-H) do **not** fully support Zebra Code Page 1250. This value is supported only on Zebra G-Series™ printers. 33 = Code Page 1251 34 = Code page 1253 35 = Code Page 1254 36 = Code Page 1255 *Initial Value at power-up:* 0
s1 = source 1 (character output image)	*Accepted Values:* decimals 0 to 255
d1 = destination 1 (character input)	*Accepted Values:* decimals 0 to 255
s2 = source 2 (character output image)	*Accepted Values:* decimals 0 to 255
d2 = destination 2 (character input)	*Accepted Values:* decimals 0 to 255
... = continuation of pattern	Up to 256 source and destination pairs can be entered in this command.

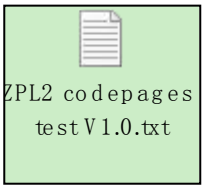
a. The encoding is controlled by the conversion table (*.DAT). The correct table must be present for the conversion to function. The table generated by ZTools™ is the TrueType fonts internal encoding (Unicode).

b. Shift-JIS encoding converts Shift-JIS to JIS and then looks up the JIS conversion in JIS.DAT. This table must be present for Shift-JIS to function.

c. Supports ASCII transparency for Asian encodings. 7F and less are treated as single byte characters. 80 to FE is treated as the first byte of a 2 byte character 8000 to FEFF in the encoding table for Unicode.

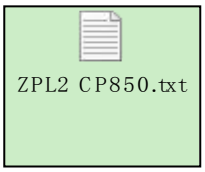
d. The ^CI17 command has been deprecated, along with the ^F8 and ^F16 commands that are required for the ^CI17 command to function. The recommended replacement is the ^CI28-30 commands.

Example Codepages Test (^CI0-13、27、31-36):



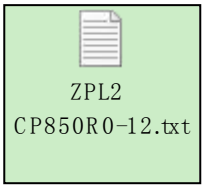
[This parameter is only available on printers with firmware] HT100_V1.0.02beta11.ub, HtxxV1.0.05_Beta6.img and htxxV1.0.05_Beta8.img

Example CP850 Test:



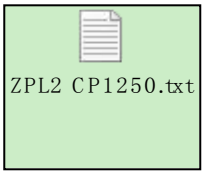
[This parameter is only available on printers with firmware] HtxxV1.0.05, HtxxV1.0.05_Beta6.img and HtxxV1.0.05_Beta8.

Example CP850R0-12 Test:



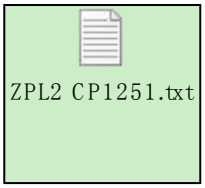
[This parameter is only available on printers with firmware] HtxxV1.0.05_Bate6.img and HtxxV1.0.05_Beta8.

Example CP1250 Test:



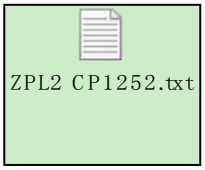
[This parameter is only available on printers with firmware] HtxxV1.0.05, HtxxV1.0.05_Beta6.img and HtxxV1.0.05_Beta8.

Example CP1251 Test:



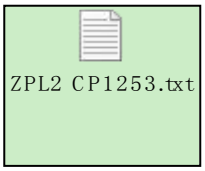
[This parameter is only available on printers with firmware] HtxxV1.0.05_Bate6.img and HtxxV1.0.05_Beta8.

Example CP1252 Test:



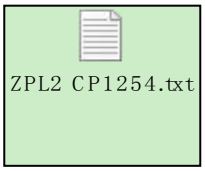
[This parameter is only available on printers with firmware] HtxxV1.0.05, HtxxV1.0.05_Beta6.img and HtxxV1.0.05_Beta8.

Example CP1253 Test:



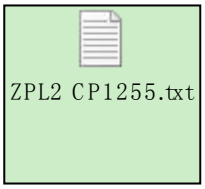
[This parameter is only available on printers with firmware] HtxxV1.0.05, HtxxV1.0.05_Beta6.img and HtxxV1.0.05_Beta8.

Example CP1254 Test:



[This parameter is only available on printers with firmware] HtxxV1.0.05, HtxxV1.0.05_Beta6.img and HtxxV1.0.05_Beta8.

Example CP1255 Test:



[This parameter is only available on printers with firmware] HtxxV1.0.05_Bate6.img and HtxxV1.0.05_Beta8.

Driver Command

^FO

Field Origin

Description The ^FO command sets a field origin, relative to the label home (^LH) position. ^FO sets the upper-left corner of the field area by defining points along the x-axis and y-axis independent of the rotation.

Format ^FOx,y,z

[This parameter is only available on printers with firmware] HtxxV1.0.05.

^GB

Graphic Box

Description The ^GB command is used to draw boxes and lines as part of a label format. Boxes and lines are used to highlight important information, divide labels into distinct areas, or to improve the appearance of a label. The same format command is used for drawing either boxes or lines.

Format `^GBw ,h,t,c,r`

`w` = box width (in dots)	*Accepted Values:* value of `t` to `32000` *Default Value:* value used for thickness (t) or 1
`h` = box height (in dots)	*Accepted Values:* value of `t` to `32000` *Default Value:* value used for thickness (t) or 1
`t` = border thickness (in dots)	*Accepted Values:* `1` to `32000` *Default Value:* `1`
`c` = line color	*Accepted Values:* `B` = black `W` = white *Default Value:* `B`
`r` = degree of cornerrounding	*Accepted Values:* `0` (no rounding) to `8` (heaviest rounding) *Default Value:* `0`

the `w` and `h` parameters, keep in mind that printers have a default of 6, 8, 12, or 24 dots/millimeter. This comes out to 153, 203, 300, or 600 dots per inch. To determine the values for w and h, calculate the dimensions in millimeters and multiply by 6, 8, 12, or 24.

If the width and height are not specified, you get a solid box with its width and height as specified by value `t`.

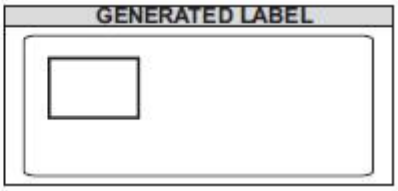
The roundness-index is used to determine a rounding-radius for each box. Formula:

rounding-radius = (rounding-index / 8) * (shorter side / 2)

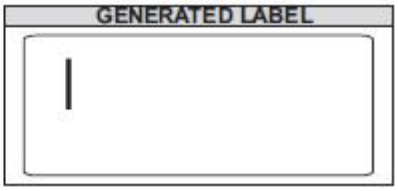
where the shorter side is the lesser of the width and height (after adjusting for minimum and default values).

Examples Here are a few examples of graphic boxes:

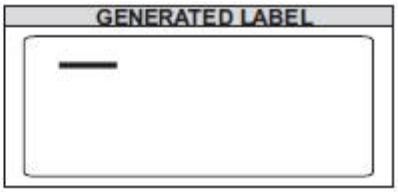
Width: 1.5 inch; Height: 1 inch; Thickness: 10; Color: default; Rounding: default

ZPL II CODE	GENERATED LABEL
^XA ^FO50,50 ^GB300,200,10^FS ^XZ	

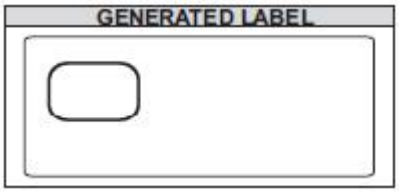
Width: 0 inch; Height: 1 inch; Thickness: 20; Color: default; Rounding: default:

ZPL II CODE	GENERATED LABEL
^XA ^FO50,50 ^GB0,203,20^FS ^XZ	

Width: 1 inch; Height: 0 inch; Thickness: 30; Color: default; Rounding: default:

ZPL II CODE	GENERATED LABEL
^XA ^FO50,50 ^GB203,0,20^FS ^XZ	

Width: 1.5 inch; Height: 1 inch; Thickness: 10; Color: default; Rounding: 5:

ZPL II CODE	GENERATED LABEL
^XA ^FO50,50 ^GB300,200,10,,5^FS ^XZ	

[This parameter is only available on printers with firmware] htxxV1.0.05_Beta2.img and HtxxV1.0.05_Beta8.

~HI~HS~HM ^XA^HW*:*.*^XZ ^XA ^HH ^XZ

Description Upon receipt, the printer responds with information on the model, software version, dots-per-millimeter setting, memory size, and any detected objects.

[This parameter is only available on printers with firmware] HtxxV1.0.05

^HW

Host Directory List

Description ^HW is used to transmit a directory listing of objects in a specific memory area (storage device) back to the host device. This command returns a formatted ASCII string of object names to the host.

Each object is listed on a line and has a fixed length. The total length of a line is also fixed. Each line listing an object begins with the asterisk (*) followed by a blank space. There are eight spaces for the object name, followed by a period and three spaces for the extension. The extension is followed by two blank spaces, six spaces for the object size, two blank spaces, and three spaces for option flags (reserved for future use). The format looks like this:

```
<STX><CR><LF>
DIR R: <CR><LF>
*Name.ext(2sp.)(6 obj. sz.)(2sp.)(3 option flags)
*Name.ext(2sp.)(6 obj. sz.)(2sp.)(3 option flags)
<CR><LF>
-xxxxxxx bytes free
<CR><LF>
<ETX>
<STX> = start of text
<CR><LR> = carriage return/line feed
<ETX> = end on text
```

printer returns the directory listing as soon as possible, based on other tasks it might be performing when the command is received.

This command, like all ^ (caret) commands, is processed in the order that it is received by the printer.

Format ^HWd:o.x

d = location to retrieve object listing	*Accepted Values:* R:, E:, B:, A: and Z: *Default Value:* R:
o = object name	*Accepted Values:* 1 to 8 alphanumeric characters *Default Value:* asterisk (*). A question mark (?) can also be used.
x = extension	*Accepted Values:* any extension conforming to Zebra conventions *Default Value:* asterisk (*). A question mark (?) can also be used.
f = format	*Accepted Values:* c = column format d = default format *Default Value:* d

Example Listed is an example of the ^HW command to retrieve from information R:

```
^XA
^HWR:*.*
^XZ
```

Example The printer returned this information as the Host Directory Listing:-DIR

```
R:*.*
*R:ARIALN1.FNT 49140
*R:ARIALN2.FNT 49140
*R:ARIALN3.FNT 49140
*R:ARIALN4.FNT 49140
*R:ARIALN.FNT 49140
*R:ZEBRA.GRF 8420
-794292 bytes free R:RAM
```

[This parameter is only available on printers with firmware] HtxxV1.0.05

~JC

Set Media Sensor Calibration

Description The ~JC command is used to force a label length measurement and adjust the media and ribbon sensor values.

Format ~JC

Comments In Continuous Mode, only the media and ribbon sensors are calibrated. This command is ignored on the HC100™ printer.

[This parameter is only available on printers with firmware] HtxxV1.0.05, HtxxV1.0.05_Beta6.img and HtxxV1.0.05_Beta8.

~JD

Enable Communications Diagnostics

Description The ~JD command initiates Diagnostic Mode, which produces an ASCII printout (using current label length and full width of printer) of all characters received by the printer. This printout includes the ASCII characters, the hexadecimal value, and any communication errors.

Format ~JD

[This parameter is only available on printers with firmware] HtxxV1.0.05

~JE

Disable Diagnostics

Description The ~JE command cancels Diagnostic Mode and returns the printer to normal label printing.

Format ~JE

[This parameter is only available on printers with firmware] HtxxV1.0.05.

~JL

Set Label Length

Description The ~JL command is used to set the label length. Depending on the size of the label, the printer feeds one or more blank labels.

Format ~JL

[This parameter is only available on printers with firmware] HtxxV1.0.05 and HtxxV1.0.05_Beta8.

~JR

Power On Reset

Description The~JR command resets all of the printer's internal software, performs a power-on self-test (POST), clears the buffer and DRAM, and resets communication parameters and default values. Issuing a ~JR command performs the same function as a manual power-on reset.

Format ~JR

[This parameter is only available on printers with firmware] HtxxV1.0.05 and HtxxV1.0.05_Beta8.

^LR

Label Reverse Print

Description The ^LR command reverses the printing of all fields in the label format. It allows a field to appear as white over black or black over white.

Using the ^LR is identical to placing an ^FR command in all current and subsequent fields.

Format ^LRa

a = reverse print all fields

Accepted Values:
N = no
Y = yes
Initial Value at Power-up: N or last permanently saved value

Example This is an example that shows printing white over black and black over white. The ^GB command is used to create the black background.

ZPL II CODE

```
^XA^LRY
^FO100,50
^GB195,203,195^FS
^FO180,110^CFG
^FDLABEL^FS
^FO130,170
^FDREVERSE^FS
^XZ
```

GENERATED LABEL

Comments The ^LR setting remains active unless turned off by ^LRN or the printer is turned off.

Note : ^GB needs to be used together with ^LR.

Only fields following this command are affected.

[This parameter is only available on printers with firmware] HtxxV1.0.05.

^MM

Print Mode

Description The ^MM command determines the action the printer takes after a label or group of labels has printed.

Format ^MMa,b

a = desired mode

Accepted Values:

T = Tear-off *h*
P = Peel-off (not available on *S*-300) *h*
R = Rewind (depends on printer model)
A = Applicator (depends on printer model) *h*
C = Cutter (depends on printer model)
D = Delayed cutter *h*
F = RFID *h*
L = Reserved *h, i*
U = Reserved *h, i*
K = Kiosk *j*

Default Value:

The values available for parameter a depend on the printer being used and whether it supports the option.

For RFID printers:

A = R110PAX4 print engines
F = other RFID printers

b = prepeel select

Accepted Values:

N = no
Y = yes

Default Value: N

The command is ignored if parameters are missing or invalid. The current value of the command remains unchanged.

h. This value is not supported on the KR403 printer.
i. This value is supported only on the ZM400/ZM600 and RZ400/RZ600 printers.
j. This value is supported only the KR403 printer.

This list identifies the different modes of operation:

• Tear-off — after printing, the label advances so the web is over the tear bar. The label, with liner attached, can be torn off manually.

• Peel-off — after printing, the label moves forward and activates a Label Available Sensor. Printing stops until the label is manually removed from the printer.
Power Peel – liner automatically rewinds using an optional internal rewind spindle.
Value Peel – liner feeds down the front of the printer and is manually removed.
Prepeel – after each label is manually removed, the printer feeds the next label forward to prepeel a small portion of the label away from the liner material. The printer then backfeeds and prints the label. The prepeel feature assists in the proper peel operation of some media types.

• Rewind — the label and liner are rewound on an (optional) external rewind device. The next label is positioned under the printhead (no backfeed motion).

• Applicator — when used with an application device, the label move far enough forward to be removed by the applicator and applied to an item. This applies only to printers that have applicator ports and that are being used in a print-and-apply system.

• Cutter — after printing, the media feeds forward and is automatically cut into predetermined lengths.

• Delayed cutter — When the printer is in the Delayed Cut PRINT MODE, it will cut the label when it receives the ~JK (Delayed Cut) command. To activate the ~JK command, the printer's PRINT MODE must be set to Delayed Cut and there must be a label waiting to be cut. When the printer is not in the Delayed Cut PRINT MODE, the printer will not cut the label when it receives the ~JK command. The Delayed Cut feature can be activated:

• through PRINT MODE on the printer's control panel

• with a ^MMD command

• RFID — increases throughput time when printing batches of RFID labels by eliminating backfeed between labels.

• Kiosk — after printing, the media is moved in a presentation position, most applications maintain a loop of media in the printer.

Comments Be sure to select the appropriate value for the print mode being used to avoid unexpected results.

[This parameter is only available on printers with firmware] HtxxV1.0.05.

^MN

Media Tracking

Description The ^MN command relays to the printer what type of media is being used (continuous or non-continuous) for purposes of tracking.

This bulleted list shows the types of media associated with this command:

- Continuous Media – this media has no physical characteristic (such as a web, notch, perforation, black mark) to separate labels. Label length is determined by the ^LL command.
- Continuous Media, variable length – same as Continuous Media, but if portions of the printed label fall outside of the defined label length, the label size will automatically be extended to contain them. This label length extension applies only to the current label. Note that ^MNV still requires the use of the ^LL command to define the initial desired label length.
- Non-continuous Media – this media has some type of physical characteristic (such as web, notch, perforation, black mark) to separate the labels.

Format ^MNa,b

a = media being used	*Accepted Values:* N = continuous media Y = non-continuous media web sensing *k, l* W = non-continuous media web sensing *k, l* M = non-continuous media mark sensing A = auto-detects the type of media during calibration *k, m* V = continuous media, variable length *n* *Default Value:* a value must be entered or the command is ignored
b = black mark offset in dots	This sets the expected location of the media mark relative to the point of separation between documents. If set to 0, the media mark is expected to be found at the point of separation. (i.e., the perforation, cut point, etc.) All values are listed in dots. This parameter is ignored unless the a parameter is set to M. If this parameter is missing, the default value is used. *Accepted Values:* -80 to 283 for direct-thermal only printers -240 to 566 for 600 dpi printers -120 to 283 for all other printers *Default Value:* 0

k. Provides the same result.
l. This value is not supported on the KR403 printer.
m.This parameter is supported only on G-series printers.
n. This parameter is supported only on the KR403 printer.

[This parameter is only available on printers with firmware] HtxxV1.0.05.

^MT

Media Type

Description The ^MT command selects the type of media being used in the printer.

These are the choices for this command:
• Thermal Transfer Media – this media uses a high-carbon black or colored ribbon. The ink on the ribbon is bonded to the media.
• Direct Thermal Media – this media is heat sensitive and requires no ribbon.

Format ^MTa

a = media type used	*Accepted Values:* T = thermal transfer media D = direct thermal media *Default Value:* a value must be entered or the command is ignored

[This parameter is only available on printers with firmware] HtxxV1.0.05.

^PH

Description The ^PH or ~PH command causes the printer to feed one blank label.
The ~PH command feeds one label after the format currently being printed is done or when the printer is placed in pause.
The ^PH command feeds one blank label after the current format prints.
Format ^PH or ~PH

[This parameter is only available on printers with firmware] htxxV1.0.05_Beta2.img and HtxxV1.0.05_Beta8.

^PM

Printing Mirror Image of Label

Description The ^PM command prints the entire printable area of the label as a mirror image. This command flips the image from left to right.

Format ^PMa

a = print mirror image of entire label

Accepted Values:
N = no
Y = yes
Default Value: N

Example This is an example of printing a mirror image on a label:

ZPL II CODE	GENERATED LABEL
^XA^PMY ^FO100,100 ^CFG ^FDMIRROR^FS ^FO100,160 ^FDIMAGE^FS ^XZ	

Comments If the parameter is missing or invalid, the command is ignored. Once entered, the ^PM command remains active until ^PMN is received or the printer is turned off.

[This parameter is only available on printers with firmware] HtxxV1.0.05.

~SD

Set Darkness

Description The ~SD command allows you to set the darkness of printing. ~SD is the equivalent of the darkness setting parameter on the control panel display.

Format ~SD##

## =	desired darkness setting (two-digit number)	*Accepted Values:* 00 to 30 *Default Value:* last permanently saved value

Important The darkness setting range for the *Xi*III*Plus*, Xi4, and RXi4 is 0 to 30 in increments of 0.1. The firmware is setup so that the ^MD and ~SD commands (ZPL darkness commands) accept that range of settings.

Example These are examples of the *Xi*III*Plus*, Xi4, and RXi4 Darkness Setting:

```
^MD8.3
~SD8.3
```

Comments The ^MD command value, if applicable, is added to the ~SD command.

[This parameter is only available on printers with firmware] HtxxV1.0.05.

~WC

Print Configuration Label

Description The ~WC command is used to generate a printer configuration label. The printer configuration label contains information about the printer setup, such as sensor type, network ID, ZPL mode, firmware version, and descriptive data on the R:, E:, B:, and A: devices.

Format ~WC

This command works only when the printer is idle.

[This parameter is only available on printers with firmware] HtxxV1.0.05, HtxxV1.0.05_Beta6.img and HtxxV1.0.05_Beta8.

^WD

Description The ^WD command is used to print a label listing bar codes, objects stored in DRAM, or fonts.

For bar codes, the list shows the name of the bar code. For fonts, the list shows the name of the font, the number to use with ^A command, and size. For objects stored in DRAM, the list shows the name of the object, extension, size, and option flags. All lists are enclosed in a double-line box.

Format `^WDd:o.x`

`d` = source device —optional

Accepted Values: `R:`, `E:`, `B:`, `A:` and `Z:`
Default Value: `R:`

`o` = object name —optional

Accepted Values: `1` to `8` alphanumeric characters
Default Value: *
The use of a `?` (question mark) is also allowed.

`x` = extension — optional

Accepted Values: any extension conforming to Zebra conventions
`.FNT` = font
`.BAR` = bar code
`.ZPL` = stored ZPL format
`.GRF` = GRF graphic
`.CO` = memory cache
`.DAT` = font encoding
`.BAS` = ZBI encrypted program
`.BAE` = ZBI encrypted program
`.STO` = data storage
`.PNG` = PNG graphic
`*` = all objects
`.TTF` = TrueType Font
`.TTE` = True Type Extension
Default Value: *
The use of a `?` (question mark) is also allowed.

Example To print a label listing all objects in DRAM, enter:

```
^XA
^WDR:*.*
^XZ
```

Example To print a label listing all resident bar codes, enter:

```
^XA
^WDZ:*.BAR
^XZ
```

Example To print a label listing all resident fonts, enter:

```
^XA
^WDZ:*.FNT
^XZ
```

[This parameter is only available on printers with firmware] htxxV1.0.05_Beta2.img

Download Command

^DF

Download Format

Description The ^DF command saves ZPL II format commands as text strings to be later merged using ^XF with variable data. The format to be stored might contain field number (^FN) commands to be referenced when recalled.

While use of stored formats reduces transmission time, no formatting time is saved—this command saves ZPL II as text strings formatted at print time.

Enter the ^DF stored format command immediately after the ^XA command, then enter the format commands to be saved.

Format ^DFd:o.x

d =	device to store image	*Accepted Values:* R:, E:, B:, and A: *Default Value:* R:
o =	image name	*Accepted Values:* 1 to 8 alphanumeric characters *Default Value:* if a name is not specified, UNKNOWN is used
x =	extension	*Format:* .ZPL

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

~DG

Download Graphics

Description The ~DG command downloads an ASCII Hex representation of a graphic image. If .GRF is not the specified file extension, .GRF is automatically appended.

Format `~DGd:o.x,t,w,data`

`d` = device to store image	*Accepted Values:* `R:`, `E:`, `B:`, and `A:` *Default Value:* `R:`
`o` = image name	*Accepted Values:* `1` to `8` alphanumeric characters *Default Value:* if a name is not specified, UNKNOWN is used
`x` = extension	*Format:* `.GRF`
`t` = total number of bytes in graphic	See the formula in the examples below.
`w` = number of bytes per row	See the formula in the examples below.
`data` = ASCII hexadecimal string defining image	The data string defines the image and is an ASCII hexadecimal representation of the image. Each character represents a horizontal nibble of four dots.

This is the key for the examples that follow:

x = width of the graphic in millimeters
y = height of the graphic in millimeters
z = dots/mm = print density of the printer being programmed
8 = bits/byte

This is an example of using the ~DG command to load a checkerboard pattern into DRAM. The name used to store the graphic is SAMPLE.GRF:

```
~DGR:SAMPLE.GRF,80,10,
FFFFFFFFFFFFFFFFFFFF
8000FFFF0000FFFF0001
8000FFFF0000FFFF0001
8000FFFF0000FFFF0001
FFFF0000FFFF0000FFFF
FFFF0000FFFF0000FFFF
FFFF0000FFFF0000FFFF
FFFFFFFFFFFFFFFFFFFF
^XA
^PW800
^LL400
^FO10,10^XGR:SAMPLE.GRF,1,1^FS
^FO400,10^XGR:SAMPLE.GRF,2,2^FS
^FO10,100^XGR:SAMPLE.GRF,3,3^FS
^FO400,100^XGR:SAMPLE.GRF,4,4^FS
^FO10,200^XGR:SAMPLE.GRF,5,6^FS
^XZ
```

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

This is an example of lading two same graph to printer, and the second be placed by the first one:

```
~DGR:SAMPLE.GRF,80,10,
FFFFFFFFFFFFFFFFFFFF
8000FFFF0000FFFF0001
8000FFFF0000FFFF0001
8000FFFF0000FFFF0001
FFFF0000FFFF0000FFFF
FFFF0000FFFF0000FFFF
FFFF0000FFFF0000FFFF
FFFFFFFFFFFFFFFFFFFF

~DGR:SAMPLE.GRF,1691,19,
:Z64:eJzd1DFuwzAMBdAvuIBHXqCoLhJE1+oQxPbU0UfoVQJ0yDVUoEBXd4oGwyzlJrFFB
mizloMCvxgUJUsEJBxzmn8izuG/mBmBX+Y/FmpZaNTUr0hSUCfU7rCKuosgbO6lQXJZcoq
SpWd4TTs8adpgq2mLjaVdSX7wSLJnBZGz1A2a6rdYElAdo56x+jxoctxqwg3a4y/Ehm6kr
9kU4Y9DJhoXCl3SxG50Q0HVhL0su6flMJ0SAjLFhSL8oeF+Nd+pRT2Egj4knWQmFOEmQ2h
aQyEakjIJDwVV3BIey9c4EcaSAlOliOQ+KJJF8qDIy61RhCZp+R8hH6Z5zXtAl2G8UJqfC
pqfpoImS0yX4XfqrxTlk+XjJueiOdeVqc/DHZST3qKDvLqkn2ku4j33yJJibq5rmig2lgJ
PBY2ZRlzrmrcw+tyiVxQpUm7kq+pBsc7HsiS5lZocG0I+qoqag6FgZpRuZ4iSpdFQ/bPsb
ydKr9k=:2C7F

^XA
^LL200
^PW800
^FO20,20
^XGR:SAMPLE.GRF,1,1^FS
^PQ1,0,1,Y
^XZ
```

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

This is an example of keeping the graph in Flash when printer power off:

```
~DGE:02.GRF,80,10,
FFFFFFFFFFFFFFFFFFFF
8000FFFF0000FFFF0001
8000FFFF0000FFFF0001
8000FFFF0000FFFF0001
FFFF0000FFFF0000FFFF
FFFF0000FFFF0000FFFF
FFFF0000FFFF0000FFFF
FFFFFFFFFFFFFFFFFFFF

~DGE:SAMPLE.GRF,1691,19,
:Z64:eJzd1DFuwzAMBdAvuIBHXqCoLhJE1+oQxPbU0UfoVQJ0yDVUoEBXd4oGwyzlJrFFBmizl
oMCvxgUJUsEJBxzmn8izuG/mBmBX+Y/FmpZaNTUr0hSUCfU7rCKuosgbO6lQXJZcoqSpWd4TTs
8adpgq2mLjaVdSX7wSLJnBZGz1A2a6rdYElAdo56x+jxoctxqwg3a4y/Ehm6kr9kU4Y9DJhoXC
l3SxG50Q0HVhL0su6flMJ0SAjLFhSL8oeF+Nd+pRT2Egj4knWQmFOEmQ2haQyEakjIJDwVV3BI
ey9c4EcaSAlOliOQ+KJJF8qDIy61RhCZp+R8hH6Z5zXtAl2G8UJqfCpqfpoImS0yX4XfqrxTlk
+XjJueiOdeVqc/DHZST3qKDvLqkn2ku4j33yJJibq5rmig2lgJPBY2ZRlzrmrcw+tyiVxQpUm7
kq+pBsc7HsiS5lZocG0I+qoqag6FgZpRuZ4iSpdFQ/bPsbydKr9k=:2C7F

^XA
^LL200
^PW800
^FO20,20^XGE:SAMPLE.GRF,1,1^FS
^FO400,20^XGE:02.GRF,1,1^FS
^PQ1,0,1,Y
^XZ
====Recall====
^XA
^LL200
^PW800
^FO20,20^XGE:SAMPLE.GRF,1,1^FS
^FO400,20^XGE:02.GRF,1,1^FS
^PQ1,0,1,Y
^XZ
```

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Example This example is generated using the ^XF command to recall this format:

```
^XA
^DFE:SAMPLE.ZPL^FS
^PW800^LL280
^LH0,0
^FO20,20^GB760,200,2,B,0^FS
^FO20,100^GB760,0,2,B,0^FS
^FO30,50,0^ADN,36,20^FDSN:^FS
^FO110,58,0^ADN,18,10^FN1^FS
^FO450,50,0^ADN,36,20^FDDate:^FS
^FO580,58,0^ADN,18,10^FN2^FS
^XZ

^XA
^DFE:0002.ZPL^FS
^PW800^LL240
^LH0,0
^FO180,118^BY4^BUN,60,Y,N,Y^FN1^FS
^XZ
==========Recalled==============
^XA
^XFE:SAMPLE.ZPL
^FN1^FDNO.AX2017041100001^FS
^FN2^FD2017.04.11 PM ^FS
^XFE:0002.ZPL
^FN1^FD01234567890^FS
^XZ
```

^FN

Field Number

Description The ^FN command numbers the data fields. This command is used in both ^DF (Store Format) and ^XF (Recall Format) commands.

In a stored format, use the ^FN command where you would normally use the ^FD (Field Data) command. In recalling the stored format, use ^FN in conjunction with the ^FD command.

The optional "a" parameter can be used with the KDU Plus to cause prompts to be displayed on the KDU unit. Also, when the Print on Label link is selected on the Directory page of ZebraLink enabled printers the field prompt displays.

The number of fields and data that can be stored is dependent in the available printer memory.

Note The maximum number of ^FN commands that can be used depends on the amount of data that is placed in the fields on the label. It is recommended to use 400 or fewer fields.

Format ^FN#"a"

# = number to be assigned to the field	*Accepted Values:* 0 to 9999 *Default Value:* 0
"a" = optional parameter*	*Accepted Values:* 255 alphanumeric characters maximum (a-z,A-Z,1-9 and space) *Default Value:* optional parameter

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Comments

- The same ^FN value can be stored with several different fields.
- If a label format contains a field with ^FN and ^FD, the data in that field prints for any other field containing the same ^FN value.
- For the "a" parameter to function as a prompt the characters used in the "a" parameter must be surrounded by double quotes (see example).

^GF

Graphic Field

Description The ^GF command allows you to download graphic field data directly into the printer's bitmap storage area. This command follows the conventions for any other field, meaning a field orientation is included. The graphic field data can be placed at any location within the bitmap space.

Format ^
`GFa,b,c,d,data`

`a` = compression type

Accepted Values:
A = ASCII hexadecimal (follows the format for other download commands)
B = binary (data sent after the `c` parameter is strictly binary)
C = compressed binary (data sent after the `c` parameter is in compressed binary format. The data is compressed on the host side using Zebra's compression algorithm. The data is then decompressed and placed directly into the bitmap.)
Default Value: `A`

`b` = binary byte count

Accepted Values: 1 to 99999
This is the total number of bytes to be transmitted for the total image or the total number of bytes that follow parameter `d`. For ASCII download, the parameter should match parameter `c`. Out-of-range values are set to the nearest limit.
Default Value: command is ignored if a value is not specified

`c` = graphic field count

Accepted Values: 1 to 99999
This is the total number of bytes comprising the graphic format (width x height), which is sent as parameter `d`. Count divided by bytes per row gives the number of lines in the image. This number represents the size of the image, not necessarily the size of the data stream (see `d`).
Default Value: command is ignored if a value is not specified

`d` = bytes per row

Accepted Values: 1 to 99999
This is the number of bytes in the downloaded data that comprise one rowof the image.
Default Value: command is ignored if a value is not specified

`data = data`

Accepted Values:

ASCII hexadecimal data: 00 to FF

A string of ASCII hexadecimal numbers, two digits per image byte. CR and LF can be inserted as needed for readability. The number of two-digit number pairs must match the above count. Any numbers sent after count is satisfied are ignored. A comma in the data pads the current line with *00* (white space), minimizing the data sent. `~DN` or any caret or tilde character prematurely aborts the download.

Binary data: Strictly binary data is sent from the host. All control prefixes are ignored until the total number of bytes needed for the graphic format is sent.

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta9.img

Example This example downloads 8,000 total bytes of data and places the graphic data at location 100,100 of the bitmap. The data sent to the printer is in ASCII form.

```
^FO100,100^GFA,8000,8000,80,ASCII data
```

Example This example downloads 8,000 total bytes of data and places the graphic data at location 100,100 of the bitmap. The data sent to the printer is in binary form.

```
^FO100,100^GFB,8000,8000,80,Binary data
```

^ID

Object Delete

Description The ^ID command deletes objects, graphics, fonts, and stored formats from storage areas. Objects can be deleted selectively or in groups. This command can be used within a printing format to delete objects before saving new ones, or in a stand-alone format to delete objects.

The image name and extension support the use of the asterisk (*) as a wild card. This allows you to easily delete a selected groups of objects.

Format ^IDd:o.x

d = location of stored object	*Accepted Values:* R:, E:, B:, and A: *Default Value:* R:
o = object name	*Accepted Values:* any 1 to 8 character name *Default Value:* if a name is not specified, UNKNOWN is used
x = extension	*Accepted Values:* any extension conforming to Zebra conventions *Default Value:* .GRF

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Example Download two image and save it's label format for image and print.

```
~DGR:SAMPLE1.GRF,80,10,
FFFFFFFFFFFFFFFFFFFF
8000FFFF0000FFFF0001
8000FFFF0000FFFF0001
8000FFFF0000FFFF0001
FFFF0000FFFF0000FFFF
FFFF0000FFFF0000FFFF
FFFF0000FFFF0000FFFF
FFFFFFFFFFFFFFFFFFFF

~DGE:SAMPLE2.GRF,1691,19,
:Z64:eJzd1DFuwzAMBdAvuIBHXqCoLhJE1+oQxPbU0UfoVQJ0yDVUoEBXd4oGwyzlJrFFBmizl
oMCvxgUJUsEJBxzmn8izuG/mBmBX
+Y/FmpZaNTUr0hSUCfU7rCKuosgbO6lQXJZcoqSpWd4TTs8adpgq2mLjaVdSX7wSLJnBZGz1A2
a6rdYElAdo56x
+jxoctxqwg3a4y/Ehm6kr9kU4Y9DJhoXCl3SxG50Q0HVhL0su6flMJ0SAjLFhSL8oeF+Nd
+pRT2Egj4knWQmFOEmQ2haQyEakjIJDwVV3BIey9c4EcaSAlOliOQ+KJJF8qDIy61RhCZp
+R8hH6Z5zXtAl2G8UJqfCpqfpoImS0yX4XfqrxTlk+XjJueiOdeVqc/DHZST3qKDvLqkn2ku4j
33yJJibq5rmig2lgJPBY2ZRlzrmrcw
+tyiVxQpUm7kq+pBsc7HsiS5lZocG0I+qoqag6FgZpRuZ4iSpdFQ/bPsbydKr9k=:2C7F

^XA
^PW500^LL320
^LH0,0
^FO20,10^GB460,300,2,B,0^FS
^FO20,100^GB460,0,2,B,0^FS
^FO100,50,0^ADN,36,20^FDBarcode Test^FS
^ISE:SAMPLE4.GRF,N
^XZ

^XA
^PW500^LL320
^ILE:SAMPLE4.GRF^FS
^FO40,220^XGR:SAMPLE1.GRF,1,1^FS
^FO180,160^XGE:SAMPLE2.GRF,1,1^FS
^XZ
```

^IL

Image Load

Description The ^IL command is used at the beginning of a label format to load a stored image of a format and merge it with additional data. The image is always positioned at ^FO0,0.

Using this technique to overlay the image of constant information with variable data greatly increases the throughput of the label format.

Format `^ILd:o.x`

`d` =	location of stored object	*Accepted Values:* `R:`, `E:`, `B:`, and `A:` *Default Value:* `R:`
`o` =	object name	*Accepted Values:* `1` to `8` alphanumeric characters *Default Value:* if a name is not specified, UNKNOWN is used
`x` =	extension	*Fixed Value:* `.GRF`, `.PNG`

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Example This example recalls the stored image SAMPLE2.GRF from DRAM and overlays it with the additional data. The graphic was stored using the `^IS` command.

ZPL II CODE

```
^XA
^ILR:SAMPLE2.GRF^FS
^CFD,36,20
^FO15,210
^FD900123^FS
^FO218,210
^FDLINE 12^FS
^FO15,360^AD
^FDZEBRA THERMAL^FS
^FO15,400^AD
^FDTRANSFER PRINTER^FS
^FO15,540
^FD54321^FS
^FO220,530
^FDZ58643^FS
^FO15,670^A0,27,18
^FDTesting Stored Graphic^FS
^FO15,700^A0,27,18
^FDLabel Formats!!^FS
^XZ
```

GENERATED LABEL

Example This example of save label as image SAMPLE2.GRF, save it in RAM and print.

```
^XA
^PW800
^LL800
^CFD,36
^LH10,15
^FO2,2^GB430,750,4^FS
^FO10,170^GB200,144,2^FS
^FO10,318^GB410,174,2^FS
^FO212,170^GB206,144,2^FS
^FO10,498^GB200,120,2^FSR
^FO212,498^GB209,120,2^FS
^FO4,150^GB422,10,10^FS
^FO135,20^A0,70,60^FDZEBRA^FS
^FO80,100^A0,40,30^FDTECHNOLOGIES CORP^FS
^FO15,180^FDARTICLE#^FS
^FO218,180^FDLOCATION^FS
^FO15,328^FDDESCRIPTION^FS
^FO15,508^FDREQ.NO.^FS
^FO220,508^FDWORK NO.^FS
^FO15,630^AD,36,20^FDCOMMENTS:^FS
^ISR:SAMPLE2.GRF,N
^XZ
^XA
^ILR:SAMPLE2.GRF^FS
^CFD,18,10
^FO55,260^FD900123^FS
^FO288,260^FDLINE 12^FS
^FO55,400^AD^FDZEBRA THERMAL^FS
^FO55,440^AD^FDTRANSFER PRINTER^FS
^FO55,580^FD54321^FS
^FO280,570^FDZ58643^FS
^FO55,690^A0,27,18^FDTesting Stored Graphic^FS
^FO55,720^A0,27,18^FDLabel Formats!!^FS
^XZ
===Recall===
^XA
^ILR:SAMPLE2.GRF^FS
^CFD,18,10
^FO55,260^FD900123^FS
^FO288,260^FDLINE 12^FS
^FO55,400^AD^FDZEBRA THERMAL^FS
^FO55,440^AD^FDTRANSFER PRINTER^FS
^FO55,580^FD54321^FS
```

```
^FO280,570^FDZ58643^FS
^FO55,690^A0,27,18^FDTesting Stored Graphic^FS
^FO55,720^A0,27,18^FDLabel Formats!!^FS
^XZ
```

Example This example of save label as image SAMPLE2.GRF, save it in Flash and print.

```
^XA
^PW800
^LL800
^CFD,36
^LH10,15
^FO2,2^GB430,750,4^FS
^FO10,170^GB200,144,2^FS
^FO10,318^GB410,174,2^FS
^FO212,170^GB206,144,2^FS
^FO10,498^GB200,120,2^FSR
^FO212,498^GB209,120,2^FS
^FO4,150^GB422,10,10^FS
^FO135,20^A0,70,60^FDZEBRA^FS
^FO80,100^A0,40,30^FDTECHNOLOGIES CORP^FS
^FO15,180^FDARTICLE#^FS
^FO218,180^FDLOCATION^FS
^FO15,328^FDDESCRIPTION^FS
^FO15,508^FDREQ.NO.^FS
^FO220,508^FDWORK NO.^FS
^FO15,630^AD,36,20^FDCOMMENTS:^FS
^ISE:SAMPLE2.GRF,N
^XZ
^XA
^ILE:SAMPLE2.GRF^FS
^CFD,18,10
^FO55,260^FD900123^FS
^FO288,260^FDLINE 12^FS
^FO55,400^AD^FDZEBRA THERMAL^FS
^FO55,440^AD^FDTRANSFER PRINTER^FS
^FO55,580^FD54321^FS
^FO280,570^FDZ58643^FS
^FO55,690^A0,27,18^FDTesting Stored Graphic^FS
^FO55,720^A0,27,18^FDLabel Formats!!^FS
^XZ
=Recall==
^XA
^LL800
^ILE:SAMPLE2.GRF^FS
^CFD,18,10
^FO55,260^FD900123^FS
^FO288,260^FDLINE 12^FS
^FO55,400^AD^FDZEBRA THERMAL^FS
^FO55,440^AD^FDTRANSFER PRINTER^FS
```

```
^FO55,580^FD54321^FS
^FO280,570^FDZ58643^FS
^FO55,690^A0,27,18^FDTesting Stored Graphic^FS
^FO55,720^A0,27,18^FDLabel Formats!!^FS
^XZ
```

^IS

Image Save

Description The ^IS command is used within a label format to save that format as a graphic image, rather than as a ZPL II script. It is typically used toward the end of a script. The saved image can later be recalled with virtually no formatting time and overlaid with variable data to form a complete label.

Using this technique to overlay the image of constant information with the variable data greatly increases the throughput of the label format.

Format `^ISd:o.x,p`

`d` = location of stored object	*Accepted Values:* `R:`, `E:`, `B:`, and `A:` *Default Value:* `R:`
`o` = object name	*Accepted Values:* `1` to `8` alphanumeric characters *Default Value:* if a name is not specified, UNKNOWN is used
`x` = extension	*Accepted Values:* `.GRF` or `.PNG` *Default Value:* `.GRF`
`p` = print image after storing	*Accepted Values:* `N` = no `Y` = yes *Default Value:* `Y`

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Example This is an example of using the ^IS command to save a label format to DRAM. The name used to store the graphic is SAMPLE2.GRF.

ZPL II CODE

```
^XA
^LH10,15^FWN^BY3,3,85^CFD,36
^GB430,750,4^FS
^FO10,170^GB200,144,2^FS
^FO10,318^GB410,174,2^FS
^FO212,170^GB206,144,2^FS
^FO10,498^GB200,120,2^FSR
^FO212,498^GB209,120,2^FS
^FO4,150^GB422,10,10^FS
^FO135,20^A0,70,60
^FDZEBRA^FS
^FO80,100^A0,40,30
^FDTECHNOLOGIES CORP^FS
^FO15,180^CFD,18,10^FS
^FDARTICLE#^FS
^FO218,180
^FDLOCATION^FS
^FO15,328
^FDDESCRIPTION^FS
^FO15,508
^FDREQ.NO.^FS
^FO220,508
^FDWORK NUMBER^FS
^FO15,630^AD,36,20
^FDCOMMENTS:^FS
^ISR:SAMPLE2.GRF,Y
^XZ
```

GENERATED LABEL

^XF

Recall Format

Description The ^XF command recalls a stored format to be merged with variable data. There can be multiple ^XF commands in one format, and they can be located anywhere within the code.

When recalling a stored format and merging data using the ^FN (Field Number) function, the calling format must contain the ^FN command to merge the data properly.

While using stored formats reduces transmission time, no formatting time is saved. The ZPL II format being recalled is saved as text strings that need to be formatted at print time.

Format ^XFd:o.x

d =	source device of stored image	*Accepted Values:* R:, E:, B:, and A: *Default Value:* search priority (R:, E:, B:, and A:)
o =	name of stored image	*Accepted Values:* 1 to 8 alphanumeric characters *Default Value:* if a name is not specified, UNKNOWN is used
x =	extension l	*Fixed Value:* .ZPL

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

^XG

Recall Graphic

Description The ^XG command is used to recall one or more graphic images for printing. This command is used in a label format to merge graphics, such as company logos and piece parts, with text data to form a complete label.

An image can be recalled and resized as many times as needed in each format. Other images and data might be added to the format.

Format ^XGd:o.x,mx,my

d =	source device of stored image	*Accepted Values:* R:, E:, B:, and A: *Default Value:* search priority (R:, E:, B:, and A:)
o =	name of stored image	*Accepted Values:* 1 to 8 alphanumeric characters *Default Value:* if a name is not specified, UNKNOWN is used
x =	extension l	*Fixed Value:* .GRF
mx =	magnification factor on the x-axis	*Accepted Values:* 1 to 10 *Default Value:* 1
my =	magnification factor on the y-axis	*Accepted Values:* 1 to 10 *Default Value:* 1

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Example This is an example of using the ^XG command to recall the image SAMPLE.GRF from DRAM and print it in five different sizes in five different locations on the same label:

```
^XA
^FO100,100^XGR:SAMPLE.GRF,1,1^FS
^FO100,200^XGR:SAMPLE.GRF,2,2^FS
^FO100,300^XGR:SAMPLE.GRF,3,3^FS
^FO100,400^XGR:SAMPLE.GRF,4,4^FS
^FO100,500^XGR:SAMPLE.GRF,5,5^FS
^XZ
```

Graphic Command

^GB

Graphic Box

Description The ^GB command is used to draw boxes and lines as part of a label format. Boxes and lines are used to highlight important information, divide labels into distinct areas, or to improve the appearance of a label. The same format command is used for drawing either boxes or lines.

Format `^GBw,h,t,c,r`

`w` = box width (in dots)	*Accepted Values:* value of `t` to `32000` *Default Value:* value used for thickness (t) or 1
`h` = box height (in dots)	*Accepted Values:* value of `t` to `32000` *Default Value:* value used for thickness (t) or 1
`t` = border thickness (in dots)	*Accepted Values:* `1` to `32000` *Default Value:* `1`
`c` = line color	*Accepted Values:* `B` = black `W` = white *Default Value:* `B`
`r` = degree of cornerrounding	*Accepted Values:* `0` (no rounding) to `8` (heaviest rounding) *Default Value:* `0`

the `w` and `h` parameters, keep in mind that printers have a default of 6, 8, 12, or 24 dots/millimeter. This comes out to 153, 203, 300, or 600 dots per inch. To determine the values for w and h, calculate the dimensions in millimeters and multiply by 6, 8, 12, or 24.

If the width and height are not specified, you get a solid box with its width and height as specified by value `t`.

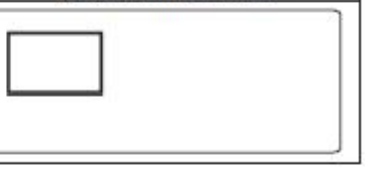
The roundness-index is used to determine a rounding-radius for each box. Formula:

rounding-radius = (rounding-index / 8) * (shorter side / 2)

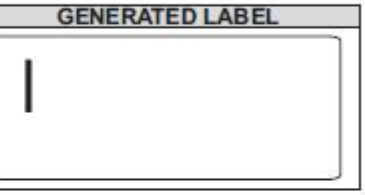
where the shorter side is the lesser of the width and height (after adjusting for minimum and default values).

Examples Here are a few examples of graphic boxes:

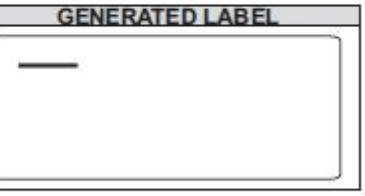
Width: 1.5 inch; Height: 1 inch; Thickness: 10; Color: default; Rounding: default

ZPL II CODE	GENERATED LABEL
^XA ^FO50,50 ^GB300,200,10^FS ^XZ	

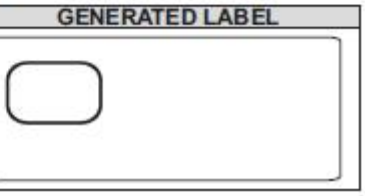
Width: 0 inch; Height: 1 inch; Thickness: 20; Color: default; Rounding: default:

ZPL II CODE	GENERATED LABEL
^XA ^FO50,50 ^GB0,203,20^FS ^XZ	

Width: 1 inch; Height: 0 inch; Thickness: 30; Color: default; Rounding: default

ZPL II CODE	GENERATED LABEL
^XA ^FO50,50 ^GB203,0,20^FS ^XZ	

Width: 1.5 inch; Height: 1 inch; Thickness: 10; Color: default; Rounding: 5

ZPL II CODE	GENERATED LABEL
^XA ^FO50,50 ^GB300,200,10,,5^FS ^XZ	

^GD

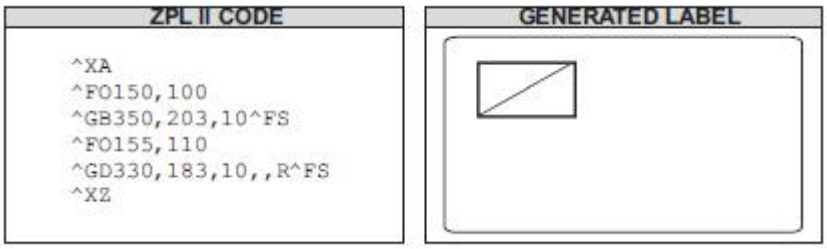
Graphic Diagonal Line

Description The ^GD command produces a straight diagonal line on a label. This can be used in conjunction with other graphic commands to create a more complex figure.

Format ^GDw,h,t,c,o

w = box width (in dots)	*Accepted Values:* 3 to 32000 *Default Value:* value of t (thickness) or 3
h = box height (in dots)	*Accepted Values:* 3 to 32000 *Default Value:* value of t (thickness) or 3
t = border thickness (in dots)	*Accepted Values:* 1 to 32000 *Default Value:* 1
c = line color	*Accepted Values:* B = black W = white *Default Value:* B
o = orientation (direction of the diagonal)	*Accepted Values:* R (or /) = right-leaning diagonal L (or \) = left-leaning diagonal *Default Value:* R

Example This is an example of how to create a diagonal line connecting one corner with the opposite corner of a box on a printed label:



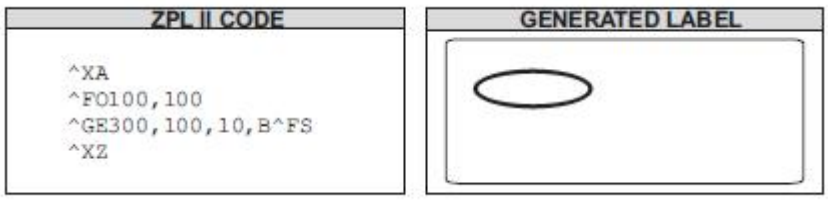
^GE

Graphic Ellipse

Description The ^GE command produces an ellipse in the label format.
Format `^GEw,h,t,c`

`w` = ellipse width (in dots)	*Accepted Values:* 3 to 4095 (larger values are replaced with 4095) *Default Value:* value used for thickness (`t`) or `1`
`h` = ellipse height (in dots)	*Accepted Values:* 3 to 4095 *Default Value:* value used for thickness (`t`) or `1`
`t` = border thickness (in dots)	*Accepted Values:* 2 to 4095 *Default Value:* 1
`c` = line color	*Accepted Values:* `B` = black `W` = white *Default Value:* `B`

Example This is an example of how to create a ellipse on a printed label:



^GS

Graphic Symbol

Description The ^GS command enables you to generate the registered trademark, copyright symbol, and other symbols.

Format ^GSo,h,w

o = field orientation

Accepted Values:
- N = normal
- R = rotate 90 degrees clockwise
- I = inverted 180 degrees
- B = bottom-up, 270 degrees

Default Value: N or last ^FW value

h = character height proportional to width (in dots)

Accepted Values: 0 to 32000
Default Value: last ^CF value

w = character width proportional to height (in dots)

Accepted Values: 0 to 32000
Default Value: last ^CF value

Example Use the ^GS command followed by ^FD and the appropriate character (A through E) within the field data to generate the desired character:

ZPL II CODE

```
^XA^CFD
^FO50,50
^FDZEBRA PROGRAMMING^FS
^FO50,75
^FDLANGUAGE II (ZPL II )^FS
^FO280,75
^GS^FDC^FS
^XZ
```

GENERATED LABEL

ZEBRA PROGRAMMING
LANGUAGE II (ZPL II™)

A = ® (Registered Trade Mark)
B = © (Copyright)
C = ™ (Trade Mark)
D = (Underwriters Laboratories approval)
E = (Canadian Standards Association approval)

QR Code Command

^B0

Aztec Bar Code Parameters

Description The ^B0 command creates a two-dimensional matrix symbology made up of square modules arranged around a bulls-eye pattern at the center.

Note The Aztec bar code works with firmware version HTxx V1.0.03 and V1.0.05 or later.

```
^B0a,b,c,d,e,f,g
```

a = orientation

Accepted Values:
- N = normal
- R = rotated
- I = inverted 180 degrees
- B = read from bottom up, 270 degrees

Default Value: current ^FW value

b = magnification factor

Accepted Values: 1 to 10

Default Value:
- 1 on 150 dpi printers
- 2 on 200 dpi printers
- 3 on 300 dpi printers
- 6 on 600 dpi printers

c = extended channel interpretation code indicator

Accepted Values:
- Y = if data contains ECICs
- N = if data does not contain ECICs

Default Value: N

d = error control and symbol size/type indicator

Accepted Values:
- 0 = default error correction level
- 01 to 99 = error correction percentage (minimum)
- 101 to 104 = 1 to 4-layer compact symbol
- 201 to 232 = 1 to 32-layer full-range symbol
- 300 = a simple Aztec “Rune”

Default Value: 0

e = menu symbol indicator	*Accepted Values:*	Y = if this symbol is to be a menu (bar code reader initialization) symbol N = if it is not a menu symbol
	Default Value: N	
f = number of symbols for structured append	*Accepted Values:* 1 through 26	
	Default Value: 1	
g = *optional* ID field for structured append	The ID field is a text string with 24-character maximum	
	Default Value: no ID	

Example This is an example of the ^B0 command(**Aztec Bar Code Basic Test**):

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDAztec Test:^FS
^FO40,80^B0N,7,N,0,N,1,0^FD 7. This is testing label 7^FS
^FO440,80^B0N,7,N,0,N,1,0^FD0123456789-abcdefgz/ABSDKFJJWIOWEUT=@#$%^&*():
WWW.COM^FS
^XZ
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDAztec Test:^FS
^FO40,80^BON,7,N,0,N,1,0^FD 7. This is testing label 7^FS
^FO440,80^BON,7,N,0,N,1,0^FD0123456789-abcdefgz/ABSDKFJJWIOWEUT=@#$%^&*():
WWW.COM^FS
^XZ
```

[Printers not featuring this command] HTxxV1.0.05_Beta.img and HTxxV1.0.05_Beta6.

Example • This is an example of the ^B0 command(**Aztec Bar Code Rotating Test**):

```
^XA
^PW800
^LL640
^FO100,30^A0,32,25^FDAztec Barcode Orientation Test:^FS
^FO100,100^B0N,10,Y,0,N,1,0^FD 7. This is testing label 7^FS
^FO500,100^B0R,10,N,0,N,1,0^FD 7. This is testing label 7^FS
^FO500,400^B0I,10,Y,0,N,1,0^FD 7. This is testing label 7^FS
^FO100,400^B0B,10,N,0,N,1,0^FD 7. This is testing label 7^FS
^XZ
```

[Printers not featuring this command] HTxxV1.0.05_Beta.img and HTxxV1.0.05_Beta6.

Example This is an example of the ^B0 command(**Aztec Bar Code Magnification Coefficient Test**):

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDAztec magnification factor Test:^FS
^FO40,80^B0N,1,N,0,N,1,0^FD 7. This is testing label 7^FS
^FO340,80^B0N,3,N,0,N,1,0^FD 7. This is testing label 7^FS
^FO540,80^B0N,5,N,0,N,1,0^FD 7. This is testing label 7^FS
^FO40,340^B0N,11,N,0,N,1,0^FD 7. This is testing label 7^FS
^FO340,340^B0N,7,N,0,N,1,0^FD 7. This is testing label 7^FS
^FO540,340^B0N,10,N,0,N,1,0^FD 7. This is testing label 7^FS
^XZ
```

[Printers not featuring this command] HTxxV1.0.05_Beta.img and HTxxV1.0.05_Beta6.

^B4

Code 49 Bar Code

Description The ^B4 command creates a multi-row, continuous, variable-length symbology capable of encoding the full 128-character ASCII set. It is ideally suited for applications requiring large amounts of data in a small space.

The code consists of two to eight rows. A row consists of a leading quiet zone, four symbol characters encoding eight code characters, a stop pattern, and a trailing quiet zone. A separator bar with a height of one module separates each row. Each symbol character encodes two characters from a set of Code 49 characters.

- ^B4 has a fixed print ratio.
- Rows can be scanned in any order.

Format ^B4o,h,f,m

o = orientation	*Accepted Values:* N = normal R = rotated 90 degrees (clockwise) I = inverted 180 degrees B = read from bottom up, 270 degrees *Default Value:* current ^FW value
h = height multiplier of individual rows	*Accepted Values:* 1 to height of label *Default Value:* value set by ^BY This number multiplied by the module equals the height of the individual rows in dots. 1 is not a recommended value.
f = print interpretation line	*Accepted Values:* N = no line printed A = print interpretation line above code B = print interpretation line below code *Default Value:* N When the field data exceeds two rows, expect the interpretation line to extend beyond the right edge of the bar code symbol.

m = starting mode

Accepted Values:

0 = Regular Alphanumeric Mode
1 = Multiple Read Alphanumeric
2 = Regular Numeric Mode
3 = Group Alphanumeric Mode
4 = Regular Alphanumeric Shift 1
5 = Regular Alphanumeric Shift 2

A = Automatic Mode. The printer determines the starting mode by analyzing the field data.

Default Value: A

Example This is an example of a Code 49 bar code(**Code 49 -Basic Test**):

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDCode 49 Test^FS
^FO40,80^BY2^B4N,20,A,A^FD12345ABCDE^FS
^FO440,80^BY2^B4N,20,A,A^FDAZK 09-$8/R++%77^FS
^FO40,320^BY2^B4N,20,A,A^FD12345aBCDE^FS
^XZ
```

ZPL II CODE	CODE 49 BAR CODE
^XA ^PW800 ^LL640 ^FO40,10^A0,32,25^FDCode 49 Test^FS ^FO40,80^BY2^B4N,20,A,A^FD12345ABCDE^FS ^XZ	

ZPL II CODE	CODE 49 BAR CODE
^XA ^PW800 ^LL640 ^FO40,10^A0,32,25^FDCode 49 Test^FS ^FO440,80^BY2^B4N,20,A,A^FDAZK 09-$8/R++%77^FS ^XZ	

ZPL II CODE	CODE 49 BAR CODE
^XA ^PW800 ^LL640 ^FO40,10^A0,32,25^FDCode 49 Test^FS ^FO40,320^BY2^B4N,20,A,A^FD12345aBCDE^FS ^XZ	12345aBCDE 

Example This is an example of a Code 49 bar code(**Code 49 -Rotating Test**):

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDCode 49 Orientation Test:^FS
^FO40,100^BY2^B4N,20,A,A^FD12345ABCDE^FS
^FO600,100^BY2^B4R,20,A,A^FD12345ABCDE^FS
^FO500,400^BY2^B4I,20,A,A^FD12345ABCDE^FS
^FO40,300^BY2^B4B,20,A,A^FD12345ABCDE^FS
^XZ
```

Example This is an example of a Code 49 bar code(**Code 49 -Comment Line Test**):

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDCode 49 Interpretation Line Test Test:^FS
^FO40,100^BY2^B4N,20,N,A^FD12345ABCDE^FS
^FO440,100^BY2^B4N,20,A,A^FD12345ABCDE^FS
^FO40,300^BY2^B4N,20,B,A^FD12345ABCDE^FS
^XZ
```

Example This is an example of a Code 49 bar code(**Code 49 -Product Height Test**):

```
^XA
^PW800
^LL640
^FO40,10^A0,32,25^FDCode 49 Size Test:^FS
^FO40,100^BY1^B4N,20,A,A^FD12345ABCDE^FS
^FO440,100^BY2,2^B4N,20,A,A^FD12345ABCDE^FS
^FO40,300^BY2,3,30^B4N,20,A,A^FD12345ABCDE^FS
^FO440,300^BY3,,40^B4N,,B,A^FD12345ABCDE^FS
^XZ
```

^B7

PDF417 Bar Code

Description The ^B7 command produces the PDF417 bar code, a two-dimensional, multirow, continuous, stacked symbology. PDF417 is capable of encoding over 1,000 characters per bar code. It is ideally suited for applications requiring large amounts of information at the time the bar code is read.

The bar code consists of three to 90 stacked rows. Each row consists of start and stop patterns and symbol characters called *code-words*. A code-word consists of four bars and four spaces. A three code-word minimum is required per row.

The PDF417 bar code is also capable of using the structured append option (^FM), which allows you to extend the field data limitations by printing multiple bar codes.

- PDF417 has a fixed print ratio.
- Field data (^FD) is limited to 3K of character data.

Format ^B7o,h,s,c,r,t

o = orientation

Accepted Values:
- N = normal
- R = rotated 90 degrees (clockwise)
- I = inverted 180 degrees
- B = read from bottom up, 270 degrees

Default Value: current ^FW value

h = bar code height for individual rows (in dots)

Accepted Values: 1 to height of label

Default Value: value set by ^BY

This number multiplied by the module equals the height of the individual rows in dots. If this number is not specified, the overall bar code height, divided by the number of rows, equals the height of the individual rows in dots, where the overall bar code height is defined by the ^BY command. 1 is not a recommended value.

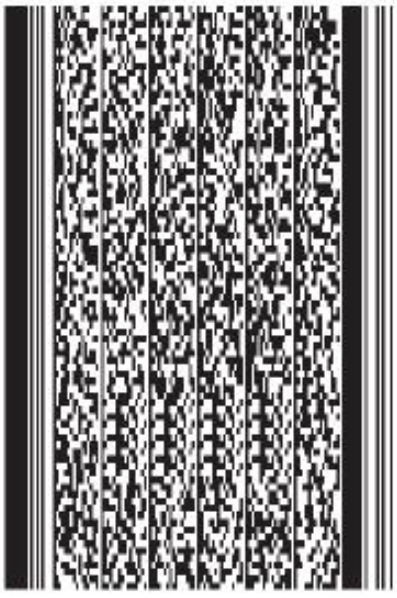
`s` = security level	*Accepted Values:* `1` to `8` (error detection and correction) *Default Value:* `0` (error detection only) This determines the number of error detection and correction code-words to be generated for the symbol. The default level provides only error detection without correction. Increasing the security level adds increasing levels of error correction and increases the symbol size.
`c` = number of data columns to encode	*Accepted Values:* `1` to `30` *Default Value:* `1:2` (row-to-column aspect ratio) You can specify the number of code-word columns giving control over the width of the symbol.
`r` = number of rows to encode	*Accepted Values:* `3` to `90` *Default Value:* `1:2` (row-to-column aspect ratio) *You can specify the number of symbol rows giving control over the height of the symbol. For example, with no row or column values entered, 72 code-words would be encoded into a symbol of six columns and 12 rows. Depending on code-words, the aspect ratio is not always exact.*
`t` = truncate right row indicators and stop pattern	*Accepted Values:* `N` = no truncation `Y` = perform truncation *Default Value:* `N`

Example This is an example of a PDF417 bar code:

ZPL II CODE

```
^XA
^BY2,3
^FO10,10^B7N,5,5,,83,N
^FDZebra Technologies
Corporation strives to be
the expert supplier of
innovative solutions to
speciality demand labeling
and ticketing problems of
business and government.
We will attract and retain
the best people who will
understand our customer's
needs and provide them with
systems, hardware, software,
consumables and service
offering the best value,
high quality, and reliable
performance, all delivered
in a timely manner.
^FS^XZ
```

PDF417 BAR CODE



Example This is an example of a PDF417 without and with truncation selected:

PDF417 without Truncation being selected

PDF417 with Truncation being selected

Example This example shows the ^B7 command used with field hex (^FH) characters:

ZPL II CODE	GENERATED LABEL
^XA ^FO50,50^BY3,3.0^B7N,8,5,7,21,N ^FH_^FD[)>_1E06_1DP12345678_1DQ160 _1D1JUN123456789A2B4C6D8E_1D20LA6-987 _1D21L54321 ZES_1D15KG1155 _1DBSC151208_1D7Q10GT_1E_04^FS ^XZ	

Comments Noted in this bulleted list:

- If both columns and rows are specified, their product must be less than 928.
- No symbol is printed if the product of columns and rows is greater than 928.
- No symbol is printed if total code-words are greater than the product of columns and rows.
- Serialization is not allowed with this bar code.
- The truncation feature can be used in situations where label damage is not likely. The right row indicators and stop pattern is reduced to a single module bar width. The difference between a non truncated and a truncated bar code is shown in the previous examples.

^BY

When used with ^B7, the parameters for the ^BY command are:

w = module width (in dots)

Accepted Values: 2 to 10

Default Value: 2

r = ratio

Fixed Value: 3 (ratio has no effect on PDF417)

h = height of bars (in dots)

Accepted Values: 1 to 32000

Default Value: 10

PDF417 uses this only when row height is not specified in the ^B7 h parameter.

^FD

The character set sent to the printer with the ^FD command includes the full ASCII set, except for those characters with special meaning to the printer.

- CR and LF are also valid characters for all ^FD statements. This scheme is used:
  - \& = carriage return/line feed
  - \\ = backslash (\)
- ^CI13 must be selected to print a backslash (\).

^FS

Example1

```
^XZ
^PW800
^LL640
^XA
^FO40,30^A0,32,25^FDPDF417 Barcode Test:^FS
^FO40,80^BY2,3^B7N,5,5,6,,N^FDiDPRT Technologies Corporation strives to be
the expert supplier of innovative solutions to speciality demand labeling
and ticketing problems of business and government.^FS

^FO40,280^BY3,3.0^B7N,8,5,7,21,N^FH_^FD[)>_1E06_1DP12345678_1DQ160_1D1JU
N123456789A2B4C6D8E_1D20LA6-987_1D21L54321 ZES_1D15KG1155
_1DBSC151208_1D7Q10GT_1E_04^FS
^XZ
```

[Printers not featuring this command] HTxxV1.0.05_Beta6.

```
^FS
```

Example 2

```
^XA
^PW800
^FO40,30^A0,32,25^FDPDF417 Barcode Orientation Test:^FS
^FO40,80^BY2^B7N,4,3,4,,N^FDiDPRT Technologies Corporation strives to be
the expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government.^FS
^FO640,80^BY2^B7R,4,3,4,,N^FDiDPRT Technologies Corporation strives to be
the expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government.^FS
^FO440,400^BY2^B7I,4,3,4,,N^FDiDPRT Technologies Corporation strives to be
the expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government.^FS
^FO40,280^BY2^B7B,4,3,4,,N^FDiDPRT Technologies Corporation strives to be
the expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government.^FS
^XZ
```

```
                    ^FS
```

Example 3

```
^XA
^PW800
^LL640
^FO40,30^A0,32,25^FDPDF417 Barcode height for individual rows Test:^FS
^FO40,80^BY2,,40^B7N,1,3,4,,N^FDiDPRT Technologies Corporation strives to be
the expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government-123.^FS
^FO40,130^BY2,,80^B7N,1,3,4,,N^FDiDPRT Technologies Corporation strives to be
the expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government-123.^FS
^FO40,180^BY2^B7N,4,3,4,,N^FDiDPRT Technologies Corporation strives to be the
expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government-123.^FS
^FO40,320^BY2^B7N,7,3,4,,N^FDiDPRT Technologies Corporation strives to be the
expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government-123.^FS
^FO440,100^BY2^B7N,10,3,4,,N^FDiDPRT Technologies Corporation strives to be
the expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government-123.^FS
^XZ
```

```
                    ^FS
```

Example 4

```
^XA
^PW800
^LL640
^FO40,30^A0,32,25^FDPDF417 Barcode security level Test:^FS
^FO40,80^BY2^B7N,4,1,4,,N^FDiDPRT Technologies Corporation strives to be the
expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government-123.^FS
^FO40,260^BY2^B7N,4,3,4,,N^FDiDPRT Technologies Corporation strives to be the
expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government-123.^FS
^FO40,440^BY2^B7N,4,5,4,,N^FDiDPRT Technologies Corporation strives to be the
expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government-123.^FS
^FO440,50^BY2^B7N,4,8,4,,N^FDiDPRT Technologies Corporation strives to be the
expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government-123.^FS
^FO440,250^BY2^B7N,4,9,4,,N^FDiDPRT Technologies Corporation strives to be
the expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government-123.^FS
^FO440,500^BY2^B7N,4,0,4,,N^FDiDPRT Technologies Corporation strives to be
the expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government-123.^FS
^XZ
```

[Printers not featuring this command] HTxxV1.0.03, HTxxV1.0.05Beta6.img and HTxxV1.0.05_Beta8.

```
                    ^FS
```

Example 5

```
^XA
^PW800
^LL640
^FO40,30^A0,32,25^FDPDF417 Barcode number of data columns to encodeTest:^FS
^FO40,80^BY2^B7N,4,3,1,,N^FDiDPRT Technologies Corporation strives to be the
expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government-123.^FS
^FO40,220^BY2^B7N,4,3,3,,N^FDiDPRT Technologies Corporation strives to be the
expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government-123.^FS
^FO40,380^BY2^B7N,4,3,6,,N^FDiDPRT Technologies Corporation strives to be the
expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government-123.^FS
^FO40,550^BY2^B7N,4,3,10,,N^FDiDPRT Technologies Corporation strives to be
the expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government-123.^FS
^XZ
```

```
                    ^FS
```

Example 6

```
^XA
^PW800
^LL640
^FO40,30^A0,32,25^FDPDF417 Barcode number of rows to encode to encodeTest:^FS
^FO40,80^BY2^B7N,4,3,5,1,N^FDiDPRT Technologies Corporation strives to be the
expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government-123.^FS
^FO40,220^BY2^B7N,4,3,5,3,N^FDiDPRT Technologies Corporation strives to be
the expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government-123.^FS
^FO40,380^BY2^B7N,4,3,5,8,N^FDiDPRT Technologies Corporation strives to be
the expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government-123.^FS
^FO40,550^BY2^B7N,4,3,5,12,N^FDiDPRT Technologies Corporation strives to be
the expert supplier of innovative solutions to speciality demand labeling and
ticketing problems of business and government-123.^FS
^XZ
```

```
^FS
```

Example 7

```
^XZ
^PW800
^LL640
^XA
^FO40,30^A0,32,25^FDPDF417 Barcode Test:^FS
^FO40,80^BY2,3^B7N,5,5,10,,N^FDFather's Love
```

My father was a self-taught mandolin player.

one of the best string instrument players in our town. He could not read music, but if he heard a tune a few times, he could play it. When he was younger, he was a member of a small country music band. They would play at local dances and on a few occasions would play for the local radio station. He often told us how he had auditioned and earned a position in a band They would play at local -12345689occasions would play for the local radio station. He often told us how he had auditioned and earned a position in a band that featured Patsy Cline as their lead singer. He told the family that after he was hired he never went back. Dad was a very religious man. He stated that there was a lot of drinking and cursing the day of his audition and he did not want to Hetunedptheoldmandolinandplayed a few notes. When I looked around, there !@#$^&was not a dry eye in the family. We saw before usa uiethumble ma with an play that MandolinQ!^FS

```
^XZ
```

[Printers not featuring this command] HTxxV1.0.05_Beta8.

^BF

MicroPDF417 Bar Code

Description The ^BF command creates a two-dimensional, multi-row, continuous, stacked symbology identical to PDF417, except it replaces the 17-module-wide start and stop patterns and left/right row indicators with a unique set of 10-module-wide row address patterns. These reduce overall symbol width and allow linear scanning at row heights as low as 2X.

MicroPDF417 is designed for applications with a need for improved area efficiency but without the requirement for PDF417's maximum data capacity. It can be printed only in specific combinations of rows and columns up to a maximum of four data columns by 44 rows.

Field data (^FD) and field hexadecimal (^FH) are limited to:

- 250 7-bit characters
- 150 8-bit characters
- 366 4-bit numeric characters

Format ^BFo,h,m

o = orientation

Accepted Values:
- N = normal
- R = rotated 90 degrees (clockwise)
- I = inverted 180 degrees
- B = read from bottom up, 270 degrees

Default Value: current ^FW value

h = bar code height (in dots)

Accepted Values: 1 to 9999
Default Value: value set by ^BY or 10 (if no ^BY value exists).

m = mode

Accepted Values: 0 to 33

Example This is an example of a MicroPDF417 bar code(Rotating Test):

```
^XA
^PW800
^LL740
^FO100,10^A0,32,25^FDMicroPDF417 Orientation Test:^FS
^BY3
^FO100,100^BY5^BFN,8,10^FDiDPRT1234567890ABCDEFGHIJKLMNOPQRSTUV^FS
^FO590,100^BY5^BFR,8,10^FDiDPRT1234567890ABCDEFGHIJKLMNOPQRSTUV^FS
^FO550,500^BY5^BFI,8,10^FDiDPRT1234567890ABCDEFGHIJKLMNOPQRSTUV^FS
^FO100,400^BY5^BFR,8,10^FDiDPRT1234567890ABCDEFGHIJKLMNOPQRSTUV^FS
^XZ
```

Example This is an example of a MicroPDF417 bar code(Height Test):

```
^XA
^PW800
^LL740
^FO40,20^A0,32,25^FDMicroPDF417 height Test:^FS
^BY2,,5^FO40,80^BY5^BFN,1,10^FDiDPRT1234567890ABCDEFGHIJKLMNOPQRSTUV^FS
^BY2,,5^FO40,150^BY5^BFN,5,10^FDiDPRT1234567890ABCDEFGHIJKLMNOPQRSTUV^FS
^BY2^FO40,300^BFN,10,10^FDiDPRT1234567890ABCDEFGHIJKLMNOPQRSTUV^FS
^BY2^FO440,100^BFN,15,10^FDiDPRT1234567890ABCDEFGHIJKLMNOPQRSTUV^FS
^XZ
```

Example This is an example of a MicroPDF417 bar code(Model Test):

```
^XA
^PW800
^LL640
^BY2
^FO40,20^A0,32,25^FDMicroPDF417 mode Test:^FS
^FO40,80^BFN,5,1^FDiDPRT1234567890ABCDEFGHIJKLMNOPQRSTUV^FS
^FO40,260^BFN,5,16^FDiDPRT1234567890ABCDEFGHIJKLMNOPQRSTUV^FS
^FO40,440^BFN,5,18^FDiDPRT1234567890ABCDEFGHIJKLMNOPQRSTUV^FS
^FO440,100^BFN,5,30^FDiDPRT1234567890ABCDEFGHIJKLMNOPQRSTUV^FS
^XZ
```

^BQ

QR Code Bar Code

Description The ^BQ command produces a matrix symbology consisting of an array of nominally square modules arranged in an overall square pattern. A unique pattern at three of the symbol's four corners assists in determining bar code size, position, and inclination.

A wide range of symbol sizes is possible, along with four levels of error correction. Userspecified module dimensions provide a wide variety of symbol production techniques.

QR Code Model 1 is the original specification, while QR Code Model 2 is an enhanced form of the symbology. Model 2 provides additional features and can be automatically differentiated from Model 1.

Model 2 is the recommended model and should normally be used.

This bar code is printed using field data specified in a subsequent ^FD string.

Encodable character sets include numeric data, alphanumeric data, 8-bit byte data, and Kanji characters.

Format ^BQa,b,c,d,e

a = field orientation	*Fixed Value:* normal (^FW has no effect on rotation)
b = model	*Accepted Values:* 1 (original) and 2 (enhanced – recommended) *Default Value:* 2
c = magnification factor	*Accepted Values:* 1 to 10 *Default Value:* 1 on 150 dpi printers 2 on 200 dpi printers 3 on 300 dpi printers 6 on 600 dpi printers
d = H,Q,M,L	*Accepted Values:* H = ultra-high reliability level Q = high reliability level M = standard level L = high density level *Default Value:* Q = if empty M = invalid values
e = N,A,B.K	*Accepted Values:* 1 - 7 *Default Value:* 7

Example This is an example of a QR Code bar code(Basic Test):

```
^XA
^LL800
^FO100,10^A0,32,25^FDQR Code Test:^FS

^FO100,100^BQN,2,10^FDMM,AAC-42^FS
^FO100,350^FB300,2,,L,1^A0,24,18^FDMM,AAC-42^FS

^FO500,100^BQ,2,8^FDQA,0123456789ABCD 2D code^FS
^FO500,350^FB300,3,,L,1^A0,24,18^FDQA,0123456789ABCD 2D code^FS

^FO500,400^BQ,2,10^FDHM,N123456789012345^FS
^FO500,640^FB300,3,,L,1^A0,24,18^FDHM,N123456789012345^FS

^FO100,450^BQN,2,6^FDhttp://www.idprt.com^FS
^FO100,650^FB300,3,,L,1^A0,24,18^FDhttp://www.idprt.com^FS
^XZ
```

[Printers not featuring this command] HTxxV1.0.03 and HTxxV1.0.05_Beta8.

Example This is an example of a QR Code bar code(Amplification Test):

```
^XA
^LL740
^FO40,30^A0,32,25^FDQR Code  magnification factor Test:^FS
^FO40,80^BQN,1,1^FDhttp://www.idprt.com-,0123456789ABCD^FS
^FO240,80^BQN,2,3^FDhttp://www.idprt.com-,0123456789ABCD^FS
^FO500,80^BQN,1,6^FDhttp://www.idprt.com-,0123456789ABCD^FS
^FO40,320^BQN,2,11^FDhttp://www.idprt.com-,0123456789ABCD^FS
^FO440,320^BQN,2,10^FDhttp://www.idprt.com-,0123456789ABCD^FS
^XZ
```

[Printers not featuring this command] HTxxV1.0.03.

^BX

Data Matrix Bar Code

Description The ^BX command creates a two-dimensional matrix symbology made up of square modules arranged within a perimeter finder pattern.

Format ^BXo,h,s,c,r,f,g,a

o = orientation

Accepted Values:
- N = normal
- R = rotated 90 degrees (clockwise)
- I = inverted 180 degrees
- B = read from bottom up, 270 degrees

Default Value: current ^FW value

h = dimensional height of individual symbol elements

Accepted Values: 1 to the width of the label

The individual elements are square — this parameter specifies both module and row height. If this parameter is zero (or not given), the h parameter (bar height) in ^BY is used as the approximate symbol height.

s = quality level

Accepted Values: 0, 50, 80, 100, 140, 200

Default Value: 0

Quality refers to the amount of data that is added to the symbol for error correction. The AIM specification refers to it as the ECC value. ECC 50, ECC 80, ECC 100, and ECC 140 use convolution encoding; ECC 200 uses Reed-Solomon encoding. For new applications, ECC 200 is recommended. ECC 000-140 should be used only in closed applications where a single party controls both the production and reading of the symbols and is responsible for overall system performance.

`c` = columns to encode — *Accepted Values:* `9` to `49`

Odd values only for quality 0 to 140 (10 to 144); even values only for quality 200.

Odd values only for quality 0 to 140 (10 to 144); even values only for quality 200. The number of rows and columns in the symbol is automatically determined. You might want to force the number of rows and columns to a larger value to achieve uniform symbol size. In the current implementation, quality 0 to 140 symbols are square, so the larger of the rows or columns supplied are used to force a symbol to that size. If you attempt to force the data into too small of a symbol, no symbol is printed. If a value greater than 49 is entered, the rows or columns value is set to zero and the size is determined normally. If an even value is entered, it generates INVALID-P (invalid parameter). If a value less than 9 but not 0, or if the data is too large for the forced size, no symbol prints; if `^CV` is active, INVALID-L prints.

`r` = rows to encode — *Accepted Values:* `9` to `49`

`f` = format ID (0 to 6) — not used with quality set at 200 — *Accepted Values:*

- `1` = field data is numeric + space (0..9,") – No \&"
- `2` = field data is uppercase alphanumeric + space (A..Z,") – No \&"
- `3` = field data is uppercase alphanumeric + space, period, comma, dash, and slash (0..9,A..Z,".-/")
- `4` = field data is upper-case alphanumeric + space (0..9,A..Z,") – no \&"
- `5` = field data is full 128 ASCII 7-bit set
- `6` = field data is full 256 ISO 8-bit set

Default Value: `6`

`g` = escape sequence Control character — *Accepted Values:* any character

Default Value: ~ (tilde)

This parameter is used only if quality 200 is specified. It is the escape character for embedding special control sequences within the field data.

A value must always be specified when using the escape sequence control character. If no value is entered, the command is ignored.

The **`g`** parmeter will continue to be underscore (_) for anyone with firmware version: V60.13.0.12, V60.13.0.12Z, V60.13.0.12B, V60.13.0.12ZB, or later.

`a` = aspect ratio — *Accepted Values:*

- `1` = square
- `2` = rectangular

Default Value: `1`

Example This is an example of a square Data Matrix bar code(Rotating Test):

```
^XA
^FO50,30^A0,32,25^FDData Matrix  Barcode  Orientation Test ^FS

^FO50,80^BXN,6,200^FDiDPRT  TECHNOLOGIES  CORPORATION  http://www.idprt.com
+86-5925885993^FS

^FO400,80^BY2,2^BXR,6,80,,,,,2^FDiDPRT      TECHNOLOGIES      CORPORATION
5F,No.8,South 12 Gaoqi Rd., Huli District Xiamen China 261006^FS

^FO450,350^BXI,6,80^FDiDPRT TECHNOLOGIES CORPORATION http://www.idprt.com
+86-5925885993^FS

^FO50,350^BY2,2^BXB,6,80,,,,,2^FDiDPRT      TECHNOLOGIES      CORPORATION
5F,No.8,South 12 Gaoqi Rd., Huli District Xiamen China 261006^FS
^XZ
```

[Printers not featuring this command] HTxxV1.0.05_Beta6.img and HTxxV1.0.05_Beta8.

Query Command

~HI

Host Identification

Description The ~HI command is designed to check printer information on the model, software version, dots-per-millimeter setting, memory size, and any detected objects.

Format ~HI

When the printer receives this command, it returns:

XXXXXX,V1.0.0,dpm,000KB,X

Eg.HT100,V1.0.5,8dots/mm,16384KB,X

HT100 = model of Label printer

V1.0.5 = version of software

dots/mm =25.4dpi

8 dots/mm = 203dpiprintheads

000KB = memory

16384KB=16MB

x = recognizable objects

only options specific to printer are shown (cutter, options, et cetera.)

~HM

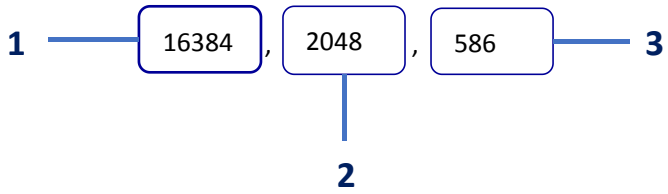
Host Ram Status

Description Sending ~HM to the printer immediately returns a memory status message to the host. Use this command whenever you need to know the printer’s RAM status.

When ~HM is sent to the Zebra printer, a line of data containing information on the total amount, maximum amount, and available amount of memory is sent back to the host.

Format ~HM

Example • This example shows when the ~HM is sent to the printer, a line of data containing three numbers are sent back to the host. Each set of numbers is identified and explained in the table that follows:



1	The total amount of RAM (in kilobytes) installed in the printer. In this example, the printer has 16384K RAM installed.
2	The maximum amount of RAM (in kilobytes) available to the user. In this example, the printer has a maximum of 2048K RAM available.
3	The amount of RAM (in kilobytes) currently available to the user. In this example, there is 586K of RAM in the printer currently available to the user.

Memory taken up by bitmaps is included in the currently available memory value (due to ^MCN).

Downloading a graphic image, fonts, or saving a bitmap affects only the amount of RAM. The total amount of RAM and maximum amount of RAM does not change after the printer is turned on.

~HS

Host Status Return

Description When the host sends ~HS to the printer, the printer sends three data strings back. Each string starts with an <STX> control code and is terminated by an<ETX><CR><LF> control code sequence. To avoid confusion, the host prints each string on a separate line.

Note When a ~HS command is sent, the printer will not send a response to the host if the printer is in one of these conditions:

MEDIA OUT

RIBBON OUT

HEAD OPEN

REWINDER FULL

HEAD OVER-TEMPERATURE

String 1 <STX>aaa,b,c,dddd,eee,f,g,h,iii,j,k,l<ETX><CR><LF>

Eg.<STX>412,0,0,0200,000,0,1,1,000,0,0,0<ETX><CR><LF>

aaa = communication (interface) settings

b = paper out flag (1 = paper out)

c = pause flag (1 = pause active)

dddd = label length (value in number of dots)

eee = number of formats in receive buffer

f = *buffer full* flag (1 = receive buffer full)

g = *communications diagnostic mode* flag (1 = diagnostic mode active)

h = *partial format* flag (1 = partial format in progress)

iii = unused (always 000)

j = *corrupt RAM* flag (1 = configuration data lost)

k = temperature range (1 = under temperature)

l = temperature range (1 = over temperature)

c. This string specifies the printer's baud rate, number of data bits, number of stop bits, parity setting, and type of handshaking. This value is a three-digit decimal representation of an eight-bit binary number. To evaluate this parameter, first convert the decimal number to a binary number.

The nine-digit binary number is read according to this table:

aaa=a^8 a^7 a^6 a^5 a^4 a^3 a^2 a^1 a^0	
a^7 = Handshake 0 = Xon/Xoff 1 = DTR	a^8 $a^2$$a^1$$a^0$ =Baud 0 000 = 110 0 001 = 300
a^6 = Parity Odd/Even 0 = Odd 1 = Even	0 010 = 600 0 011 = 1200 0 100 = 2400
a^5 = Disable/Enable 0 = Disable 1 = Enable	0 101 = 4800 0 110 = 9600 0 111 = 19200
a^4 = Stop Bits 0 = 2 Bits 1 = 1 Bit	1 000 = 28800 (available only on certain printer models) 1 001 = 38400 (available only on certain printer models) 1 010 = 57600 (available only on certain printer models)
a^3 = Data Bits 0 = 7 Bits 1 = 8 Bits	1 011 = 14400

String 2 <STX>mmm,n,o,p,q,r,s,t,uuuuuuuu,v,www<ETX><CR><LF>

Eg.<STX>160,0,0,0,0,2,1,1,00000000,0,000<ETX><CR><LF>

mmm = function settings *d*

n = unused

o = *head up* flag (1 = head in up position)

p = *ribbon out* flag (1 = ribbon out)

q = *thermal transfer mode* flag (1 = Thermal Transfer Mode selected)

r = Print Mode

0 = Rewind

1 = Peel-Off

2 = Tear-Off

3 = Cutter

4 = Applicator

5 = Delayed cut

6 = Reserved *e*

7 = Reserved *e*

8 = Reserved *e*

9 = RFID

s = print width mode

t = label waiting flag (1 = label waiting in Peel-off Mode)

Uuuuuuuu = labels remaining in batch

v = format while printing flag (always 1)

www = number of graphic images stored in memory

d. This string specifies the printer's media type, sensor profile status, and communication diagnostics status. As in String 1, this is a three-digit decimal representation of an eight-bit binary number. First, convert the decimal number to a binary number.

e. These values are only supported on the Xi4, RXi4, ZM400/ZM600, and RZ400/RZ600 printers.

The eight-digit binary number is read according to this table:

mmm=m7 m6 m5 m4 m3 m2 m1 m0	
m7 = Media Type 0 = Die-Cut 1 = Continuous	m4 m3 m2 m1 = Unused 0 = Off 1 = On
m6 = Sensor Profile 0 = Off	m0 = Print Mode 0 = Direct Thermal 1 = Thermal Transfer
m5 = Communications Diagnostics 0 = Off 1 = On	

<STX>xxxx,y<ETX><CR><LF>

Eg.<STX>0000,1

xxxx = password

y = 0 (static RAM not installed)

1 (static RAM installed)

Setting Commands

^CF

Change Alphanumeric Default Font

Description The ^CF command sets the default font used in your printer. You can use the ^CF command to simplify your programs.

Format ^CFf,h,w

Parameters	Details
f = specified default font	*Accepted Values:* A through Z and 0 to 9 *Initial Value at power-up:* A
h = individual character height (in dots)	*Accepted Values:* 0 to 32000 *Initial Value at power-up:* 9
w = individual character width (in dots)	*Accepted Values:* 0 to 32000 *Initial Value at power-up:* 5 or last permanent saved value

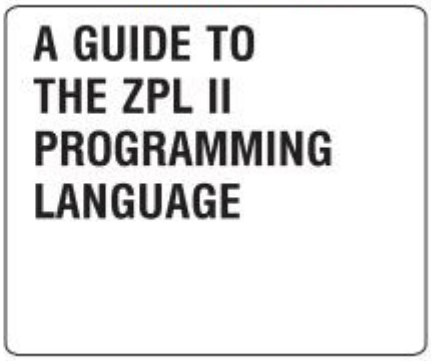
[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Parameter f specifies the default font for every alphanumeric field. Parameter h is the default height for every alphanumeric field, and parameter w is the default width value for every alphanumeric field.

The default alphanumeric font is A. If you do not change the alphanumeric default font and do not use any alphanumeric field command (^AF) or enter an invalid font value, any data you specify prints in font A.

Defining only the height or width forces the magnification to be proportional to the parameter defined. If neither value is defined, the last ^CF values given or the default ^CF values for height and width are used.

Example • This is an example of ^CF code and the result of the code:

ZPL II CODE	GENERATED LABEL
^XA ^CF0,89 ^FO20,50 ^FDA GUIDE TO^FS ^FO20,150 ^FDTHE ZPL II^FS ^FO20,250 ^FDPROGRAMMING^FS ^FO20,350 ^FDLANGUAGE^FS ^XZ	

Example • This is an example of test after restarting print: the default revert to he original default Front A.

```
^XA
^LL100
^FO10,30 ^FDChange Alphanumeric Default Font NO6^FS
^FO10,60 ^FDChange Alphanumeric Default Font NO7^FS
^XZ
```

Example • This is an example of "h" and "w" test.

```
^XA
^MNN
^LL240
^CFE,32,32
^FO10,60 ^FDChange Alphanumeric Default Font NO2^FS
^CFE,28,18
^FO10,100 ^FDChange Alphanumeric Default Font NO3^FS
^CFD,30,15
^FO10,150 ^FDChange Alphanumeric Default Font NO4^FS
^CFD,18,10
^FO10,200 ^FDChange Alphanumeric Default Font NO5^FS
^XZ
```

Example • This is an exception test of when the f is illegal, press Font A to print, and press the h and w parameter to set printing size.

```
^XA
^MTD
^LL180
^CFE,12,25
^FO10,20 ^FDChange Alphanumeric Default Font NO1^FS
^CFD,30,15
^FO10,60 ^FDChange Alphanumeric Default Font NO2^FS
^CFK,22,22
^FO10,100 ^FDChange Alphanumeric Default Font NO3^FS
^CFA,22,22
^FO10,140 ^FDChange Alphanumeric Default Font NO3^FS
^XZ
```

Comments Any font in the printer, including downloaded fonts, EPROM stored fonts, and fonts A through Z and 0 to 9, can also be selected with `^CW`.

^FD

Field Data

Description The ^FD command defines the data string for the field. The field data can be any printable character except those used as command prefixes (^ and ~).

Format ^FDa

Parameters	Details
a = data to be printed	*Accepted Values:* any data string up to 3072 bytes *Default Value:* none—a string of characters must be entered

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Example:

```
^XA
^PW800
^LL400
^FO50,50^AEN^FD123456780ABCDEFGHIJK^FS
^FO50,100^AEN^FDLMNOPQRSTUVWXYZabcdefg^FS
^FO50,150^AEN^FDhijklmnopqrstuvwxyz^FS
^FO50,200^AEN^FD!@#$%&*()_-=+[]{}\|;:'"<>,.?/^FS
^FO50,250^AEN^FD12345^6780ABCDEFGHIJK^FS
^CC++FO50,300+AEN+FD12345+6780ABCDEFGHIJK+FS+CC^
^FO50,350^AEN^FD!@#$%&*()_+1234567890-=QWEASDZXCRTYUFGHVBNMJKUIOP
Lqwertyuioplkjhgfdsazxcvbnm^FS
^XZ
```

Comments The ^ and ~ characters can be printed by changing the prefix characters. The new prefix characters cannot be printed.

Characters with codes above 127, or the ^ and ~ characters, can be printed using the ^FH and ^FD commands.

• ^CI13 must be selected to print a backslash (\).

^FH

Field Hexadecimal Indicator

Description The ^FH command allows you to enter the hexadecimal value for any character directly into the ^FD statement. The ^FH command must precede each ^FD command that uses hexadecimals in its field.

Within the ^FD statement, the hexadecimal indicator must precede each hexadecimal value. The default hexadecimal indicator is _ (underscore). There must be a minimum of two characters designated to follow the underscore. The a parameter can be added when a different hexadecimal indicator is needed.

This command can be used with any of the commands that have field data (that is ^FD, ^FV (Field Variable), and ^SN (Serialized Data)).

Valid hexadecimal characters are:

`0 1 2 3 4 5 6 7 8 9 A B C D E F a b c d e f`

Format `^FHa`

`a` =	hexadecimal indicator	*Accepted Values:* any character except current format and control prefix (^ and~ by default) *Default Value:* _ (underscore)

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Example • This command is only valid for the first `^FD` command after the `^FH` command.

```
^XA
^LL100
^FO20,20^AEN
^FH\^FD{)>\7E06\5EP1278*4060*7E@15*1D1155\1D7Q4^FS
^FO20,60^AEN
^FD{)>\7E06\5EP1278*4060*7E@15*1D1155\1D7Q4^FS
^XZ
```

^FO

Field Origin

Description The ^FO command sets a field origin, relative to the label home (^LH) position. ^FO sets the upper-left corner of the field area by defining points along the x-axis and y-axis independent of the rotation.

Format ^FOx,y,z

x = x-axis location (in dots)	*Accepted Values:* 0 to 32000 *Default Value:* 0
y = y-axis location (in dots)	*Accepted Values:* 0 to 32000 *Default Value:* 0
z = justification	*Accepted Values:* 0 = left justification 1 = right justification 2 = auto justification (script dependent) *Default Value:* last accepted ^FW value or ^FW default

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Example • the test for x or y parameter set.

```
^XA
^PW800
^LL320
^FO0,0,0^AEN^FDABC0DEFG123456789^FS
^FO80,40,0^AEN^FDABC1DEFG123456789^FS
^FO160,80,0^AEN^FDABC2DEFG123456789^FS
^FO240,120,0^AEN^FDABC3DEFG123456789^FS
^FO320,160,0^AEN^FDABC4DEFG123456789^FS
^FO400,200,0^AEN^FDABC5DEFG123456789^FS
^FO480,240,0^AEN^FDABC6DEFG123456789^FS
^FO560,280,0^AEN^FDABC7DEFG123456789^FS
^XZ
```

Comments If the value entered for the x or y parameter is too high, it could position the field origin completely off the label.
The auto justification option might cause unexpected results if variable fields or bidirectional text are used with ^FO. For the best results with bidirectional text and/or variable fields, use either the left of right justification option.

^FR

Field Reverse Print

Description The ^FR command allows a field to appear as white over black or black over white. When printing a field and the ^FR command has been used, the color of the output is the reverse of its background.

Format ^FR

Example • In this example, the ^GB command creates areas of black allowing the printing to appear white:

ZPL II CODE	GENERATED LABEL
^XA ^PR1 ^FO100,100 ^GB70,70,70,,3^FS ^FO200,100 ^GB70,70,70,,3^FS ^FO300,100 ^GB70,70,70,,3^FS ^FO400,100 ^GB70,70,70,,3^FS ^FO107,110^CF0,70,93 ^FR^FDREVERSE^FS ^XZ	

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Comments The ^FR command applies to only one field and has to be specified each time. When multiple ^FR commands are going to be used, it might be more convenient to use the ^LR command.

^FS

Field Separator

Description The ^FS command denotes the end of the field definition. Alternatively, ^FS command can also be issued as a single ASCII control code SI (Control-O, hexadecimal 0F).

Format ^FS

Exception Test : the content of a can not print without ^FD, and it would not affect the next content of ^FD...^FS.

```
^XA
^LL120
^FO20,20,0^AENABC0DEFG1231^FS
^FO20,50,0^AEN^FDABC1DEFG1232^FS
^FO20,80,0^AEN^FDABCDEFG1233^XZ
^XZ
```

Exception Test : it can print normally without ^FS.

```
^XA
^LL120
^FO20,20,0^AEN^FDABCDEFG1234
^FO20,50,0^AEN^FDABCDEFG1235
^FO20,80,0^AEN^FDABCDEFG1236
^XZ
```

Exception Test : a command contain many ^FD, only can valid for the^FD closest to ^FS.
a command contain many ^FS, only can valid for the^FS closest to ^FD.

```
^XA
^LL100
^FO20,20^ADN^FD123456780A^FDBCDEFGHIJK^FS
^XZ

^XA
^LL100
^FO20,60^AEN^FD1234^FS56780AB^FSCDEFGHIJK^FS
^XZ
```

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

^FT

Field Typeset

Description The ^FT command sets the field position, relative to the home position of the label designated by the ^LH command. The typesetting origin of the field is fixed with respect to the contents of the field and does not change with rotation.

Format `^FTx,y,z`

`x` = x-axis location (in dots)	*Accepted Values:* `0` to `32000` *Default Value:* position after last formatted text field
`y` = y-axis location (in dots)	*Accepted Values:* `0` to `32000` *Default Value:* position after last formatted text field
`z` = justification	*Accepted Values:* `0` = left justification `1` = right justification `2` = auto justification (script dependent) *Default Value:* last accepted `^FW` value or `^FW` default The auto justification option may cause unexpected results if variable fields or bidirectional text are used with `^FT`. For best results with bidirectional text and/or variable fields, use either the left of right justification options.

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Example • this will assume that after the last field that was set, the other fields will automatically follow when it missing X and Y.

```
^XA
^LL280
^FT20,120^A0N,30,20,^FDACME^FS
^FT^GS^FDC^FS
^FT^A0N,30,20,^FD Summer^FS
^FT^A0N,60,50,^FD Clearance^FS
^FT^A0N,120,100,^FD Sale^FS
^XZ
```

^FW

Field Orientation

Description The ^FW command sets the default orientation for all command fields that have an orientation (rotation) parameter (and in x.14 sets the default justification for all commands with a justification parameter). Fields can be rotated 0, 90, 180, or 270 degrees clockwise by using this command.

The ^FW command affects only fields that follow it. Once you have issued a ^FW command, the setting is retained until you turn off the printer or send a new ^FW command to the printer.

Format ^FWr,z

Parameters	Details
r = rotate field	*Accepted Values:* N = normal R = rotated 90 degrees I = inverted 180 degrees B = bottom-up 270 degrees, read from bottom up *Initial Value at Power-up:* N
z = justification	*Accepted Values:* 0 = left justification 1 = right justification 2 = auto justification (script dependent) *Default Value:* auto for ^TB and left for all other commands

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Example • test for r parameter set:

(1) ^FW and ^A set the printing direction at the same time, regard the ^A command set as the standard.

(2) This command only is valid for its field and others label format, unless restart or reset.

```
^XA
^PW800
^LL360
^FWN,0^FO80,10^AE,18,10^FD01234E5678901^FS
^FWI,0^FO80,50^AE,18,10^FD01234B5678902^FS
^FWR,0^FO10,10^AE,18,10^FD01234C5678903^FS
^FWB,0^FO400,10^AE,18,10^FD01234D5678904^FS
^FWI,0^FO80,90^AEN,18,10^FD01234B5678905^FS
^FO80,130^AE,18,10^FD01234B5678906^FS
^XZ

^XA
^PW800
^LL100
^FO10,10^AE,18,10^FD01234E5678906^FS
^FO10,50^AE,18,10^FD01234B5678907^FS
^XZ
```

Example • test for z parameter set:

```
^XA
^PW800
^LL400
^FWN,0^FO300,80^AE,18,10^FD01234B56789^FS
^FWN,1^FO300,130^AE,18,10^FD01234C56789^FS
^FWN,2^FO300,180^AE,18,10^FD01234D56789^FS
^FWI,0^FO300,230^AE,18,10^FD01234E56789^FS
^FWI,1^FO300,280^AE,18,10^FD01234F56789^FS
^FWI,2^FO300,330^AE,18,10^FD01234G56789^FS
^XZ
^XA
^PW800
^LL400
^FWR,0^FO50,10^AE,18,10^FD01234H56789^FS
^FWR,1^FO110,10^AE,18,10^FD01234I56789^FS
^FWR,2^FO170,10^AE,18,10^FD01234J56789^FS
^FWB,0^FO230,10^AE,18,10^FD01234K56789^FS
^FWB,1^FO290,10^AE,18,10^FD01234L56789^FS
^FWB,2^FO350,10^AE,18,10^FD01234M56789^FS
^XZ
```

Comments ^FW affects only the orientation in commands where the rotation parameter has not been specifically set. If a command has a specific rotation parameter, that value is used.

^FX

Comment

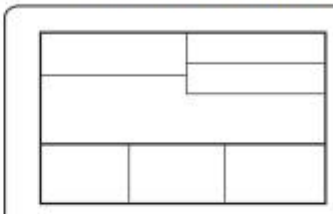
Description The ^FX command is useful when you want to add non-printing informational comments or statements within a label format. Any data after the ^FX command up to the next caret (^) or tilde (~) command does not have any effect on the label format. Therefore, you should avoid using the caret (^) or tilde (~) commands within the ^FX statement.

Format ^FXc

Parameters	Details
c = non printing comment	Creates a non-printable comment.

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Example • This is an example of how to use the ^FX command effectively:

ZPL II CODE	GENERATED LABEL
^XA ^LH100,100^FS ^FXSHIPPING LABEL^FS ^FO10,10^GB470,280,4^FS ^FO10,190^GB470,4,4^FS ^FO10,80^GB240,2,2^FS ^FO250,10^GB2,100,2^FS ^FO250,110^GB226,2,2^FS ^FO250,60^GB226,2,2^FS ^FO156,190^GB2,95,2^FS ^FO312,190^GB2,95,2^FS ^XZ	

Comments Correct usage of the ^FX command includes following it with the ^FS command.

^LH

Label Home

Description The ^LH command sets the label home position.

The default home position of a label is the upper-left corner (position 0,0 along the x and y axis). This is the axis reference point for labels. Any area below and to the right of this point is available for printing. The ^LH command changes this reference point. For instance, when working with preprinted labels, use this command to move the reference point below the preprinted area.

This command affects only fields that come after it. It is recommended to use ^LH as one of the first commands in the label format.

Format ^LHx,y

Parameters		Details
x =	x-axis position (in dots)	*Accepted Values:* 0 to 32000 *Initial Value at Power-up:* 0 or last permanently saved value
y =	y-axis position (in dots)	*Accepted Values:* 0 to 32000 *Initial Value at Power-up:* 0 or last permanently saved value

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Depending on the print head used in your printer, use one of these when figuring the values for x and y:

6 dots = 1 mm, 152 dots = 1 inch
8 dots = 1 mm, 203 dots = 1 inch
11.8 dots = 1 mm, 300 dots = 1 inch
24 dots = 1 mm, 608 dots = 1 inch

Example • This is an example of this command will affect the next label, and printing datum mark will revert to default when restart printer.

```
^XA
^PW800
^LL240
^LH0,0
^AE,18,10^FD0123456789^FS
^LH60,60
^AE,18,10^FD1123456789^FS
^LH120,120
^AE,18,10^FD2123456789^FS
^XZ

^XA
^AE,18,10^FD3123456789^FS
^AE,18,10^FD4123456789^FS
^XZ
```

Example • This is an example of when missing X and Y parameter, remove the last valid value.

```
^XA
^PW800
^LL400
^LH0,0
^AE,18,10^FD0123456789^FS
^LH40,40
^AE,18,10^FD1123456789^FS
^LH400
^AE,18,10^FD2123456789^FS
^LH,200
^AE,18,10^FD3123456789^FS
^LH
^AE,18,10^FD4123456789^FS
^XZ
```

Comments To be compatible with existing printers, this command must come before the first ^FS (Field Separator) command. Once you have issued an ^LH command, the setting is retained until you turn off the printer or send a new ^LH command to the printer.

^LL

Label Length

Description The ^LL command defines the length of the label. This command is necessary when using continuous media (media not divided into separate labels by gaps, spaces, notches, slots, or holes).

To affect the current label and be compatible with existing printers, ^LL must come before the first ^FS (Field Separator) command. Once you have issued ^LL, the setting is retained until you turn off the printer or send a new ^LL command.

Format ^LLy

Parameters	Details
y = y-axis position (in dots)	*Accepted Values:* 1 to 32000, not to exceed the maximum label size. While the printer accepts any value for this parameter, the amount of memory installed determines the maximum length of the label. *Default Value:* typically set through the LCD (if applicable), or to the maximum label length capability of the printer.

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Comments These formulas can be used to determine the value of y:

For 6 dot/mm printheads... Label length in inches x 152.4 (dots/inch) = y
For 8 dot/mm printheads... Label length in inches x 203.2 (dots/inch) = y
For 12 dot/mm printheads... Label length in inches x 304.8 (dots/inch) = y
For 24 dot/mm printheads... Label length in inches x 609.6 (dots/inch) = y

Values for y depend on the memory size. If the entered value for y exceeds the acceptable limits, the bottom of the label is cut off. The label also shifts down from top to bottom.

If multiple ^LL commands are issued in the same label format, the last ^LL command affects the next label unless it is prior to the first ^FS.

^LR

Label Reverse Print

Description The ^LR command reverses the printing of all fields in the label format. It allows a field to appear as white over black or black over white.

Using the ^LR is identical to placing an ^FR command in all current and subsequent fields.

Format ^LRa

Parameters	Details
a = reverse print all fields	*Accepted Values:* N = no Y = yes *Initial Value at Power-up:* N or last permanently saved value

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta14.img

Example • This is an example that shows printing white over black and black over white. The ^GB command is used to create the black background.

ZPL II CODE	GENERATED LABEL
^XA^LRY ^FO100,50 ^GB195,203,195^FS ^FO180,110^CFG ^FDLABEL^FS ^FO130,170 ^FDREVERSE^FS ^XZ	

Comments The ^LR setting remains active unless turned off by ^LRN or the printer is turned off.

Note • ^GB needs to be used together with ^LR. Only fields following this command are affected.

^LT

Label Top

Description The ^LT command moves the entire label format a maximum of 120 dot rows up or down from its current position, in relation to the top edge of the label. A negative value moves the format towards the top of the label; a positive value moves the format away from the top of the label.

This command can be used to fine-tune the position of the finished label without having to change any of the existing parameters.

Important • For some printer models, it is possible to request a negative value large enough to cause the media to backup into the printer and become unthreaded from the platen. This condition can result in a printer error or unpredictable results.

Format ^LTx

Parameters	Details
x = label top (in dot rows)	*Accepted Values:* -120 to 120 *Default Value:* a value must be specified or the command is ignored

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Example• This is an example of negative values move the format toward the top of the label, and positive values move the format away from the top of the label.

```
^XA
^PW800^LL640^LH0,0
^LS0
^LT40
^FO0,52,0^GB744,2,2,B,0^FS
^FO0,246,0^GB592,2,2,B,0^FS
^FO0,396,0^GB744,2,2,B,0^FS
^FO128,246,0^GB2,150,2,B,0^FS
^FO602,68,0^GB2,312,2,B,0^FS
^FO0,472,0^GB744,2,2,B,0^FS
^FO8,76,0^BQN,2,6,L^FDwww.hprt.com^FS
^FT48,44,0^CFC,36,20^FDShipment NO: A^FS^FT^SN0405288,1,Y^FS
^FO618,76^BY3^BUB,100,Y,N,Y^FD01234567890^FS
^FO64,487^BY3,2.7^B3N,N,110,Y,N^FD360013990189^FS
^FO8,276,0^A0N,35,27^FDConsignee^FS
^FO8,326,0^A0N,35,25^FDInformation^FS
^FO168,72,0^ABN,33,14^FDShipper information^FS
^FO168,112,0^CFF,26,13^TBN,400,30^FDContact Person:Andrew^FS
^FO168,142,0^TBN,400,52^FDAddress:Huli District,Xiamen,China^FS
^FO168,194,0^TBN,400,52^FDArea Code:XXX Tel:0061418705X^FS
^FO136,256,0^FDContact Person:Jasmine^FS
^FO136,286,0^FDAddress:Nanyin District,Dubai^FS
^FO136,316,0^FDArea Code:XXX^FS
^FO136,346,0^FDTel:0061418705X^FS
^FO168,406,0^AVN,80,71^FDXiaMen China^FS
^PQ1
^XZ

^XA
^PW800^LL640^LH0,0
^LS0
^LT-40
^FO0,52,0^GB744,2,2,B,0^FS
^FO0,246,0^GB592,2,2,B,0^FS
^FO0,396,0^GB744,2,2,B,0^FS
^FO128,246,0^GB2,150,2,B,0^FS
^FO602,68,0^GB2,312,2,B,0^FS
^FO0,472,0^GB744,2,2,B,0^FS
^FO8,76,0^BQN,2,6,L^FDwww.hprt.com^FS
^FT48,44,0^CFC,36,20^FDShipment NO: A^FS^FT^SN0405288,1,Y^FS
^FO618,76^BY3^BUB,100,Y,N,Y^FD01234567890^FS
^FO64,487^BY3,2.7^B3N,N,110,Y,N^FD360013990189^FS
```

```
^FO8,276,0^A0N,35,27^FDConsignee^FS
^FO8,326,0^A0N,35,25^FDInformation^FS
^FO168,72,0^ABN,33,14^FDShipper information^FS
^FO168,112,0^CFF,26,13^TBN,400,30^FDContact Person:Andrew^FS
^FO168,142,0^TBN,400,52^FDAddress:Huli District,Xiamen,China^FS
^FO168,194,0^TBN,400,52^FDArea Code:XXX Tel:0061418705X^FS
^FO136,256,0^FDContact Person:Jasmine^FS
^FO136,286,0^FDAddress:Nanyin District,Dubai^FS
^FO136,316,0^FDArea Code:XXX^FS
^FO136,346,0^FDTel:0061418705X^FS
^FO168,406,0^AVN,80,71^FDXiaMen China^FS
^PQ1
^XZ

^XA
^PW800^LL640^LH0,0
^LS0
^FO0,52,0^GB744,2,2,B,0^FS
^FO0,246,0^GB592,2,2,B,0^FS
^FO0,396,0^GB744,2,2,B,0^FS
^FO128,246,0^GB2,150,2,B,0^FS
^FO602,68,0^GB2,312,2,B,0^FS
^FO0,472,0^GB744,2,2,B,0^FS
^FO8,76,0^BQN,2,6,L^FDwww.hprt.com^FS
^FT48,44,0^CFC,36,20^FDShipment NO: A^FS^FT^SN0405288,1,Y^FS
^FO618,76^BY3^BUB,100,Y,N,Y^FD01234567890^FS
^FO64,487^BY3,2.7^B3N,N,110,Y,N^FD360013990189^FS
^FO8,276,0^A0N,35,27^FDConsignee^FS
^FO8,326,0^A0N,35,25^FDInformation^FS
^FO168,72,0^ABN,33,14^FDShipper information^FS
^FO168,112,0^CFF,26,13^TBN,400,30^FDContact Person:Andrew^FS
^FO168,142,0^TBN,400,52^FDAddress:Huli District,Xiamen,China^FS
^FO168,194,0^TBN,400,52^FDArea Code:XXX Tel:0061418705X^FS
^FO136,256,0^FDContact Person:Jasmine^FS
^FO136,286,0^FDAddress:Nanyin District,Dubai^FS
^FO136,316,0^FDArea Code:XXX^FS
^FO136,346,0^FDTel:0061418705X^FS
^FO168,406,0^AVN,80,71^FDXiaMen China^FS
^PQ1
^XZ
```

Comments The Accepted Value range for x might be smaller depending on the printer platform. The ^LT command does not change the media rest position.

^PM

Printing Mirror Image of Label

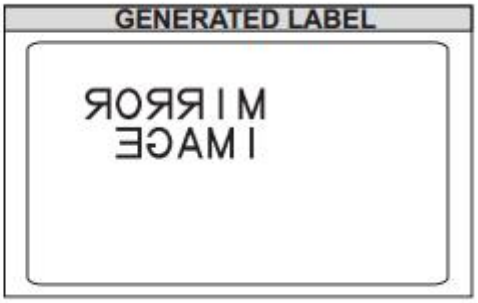
Description The ^PM command prints the entire printable area of the label as a mirror image. This command flips the image from left to right.

Format ^PMa

Parameters	Details
a = print mirror image of entire label	*Accepted Values:* N = no Y = yes *Default Value:* N

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Example • This is an example of printing a mirror image on a label:

ZPL II CODE	GENERATED LABEL
^XA^PMY ^FO100,100 ^CFG ^FDMIRROR^FS ^FO100,160 ^FDIMAGE^FS ^XZ	

Comments If the parameter is missing or invalid, the command is ignored. Once entered, the ^PM command remains active until ^PMN is received or the printer is turned off.

^PO

Print Orientation

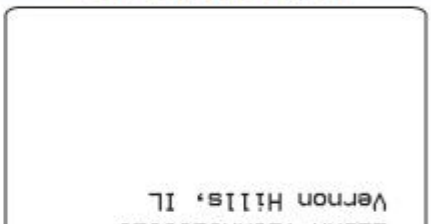
Description The ^PO command inverts the label format 180 degrees. The label appears to be printed upside down. If the original label contains commands such as ^LL, ^LS, ^LT and ^PF, the inverted label output is affected differently.

Format ^POa

Parameters	Details
a =invert label 180 degrees	*Accepted Values:* N = normal I = invert *Default Value:* N

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Example • This is an example of printing a label at 180 degrees:

ZPL II CODE	GENERATED LABEL
^XA^CFD ^POI ^LH330,10 ^FO50,50 ^FDZEBRA TECHNOLOGIES^FS ^FO50,75 ^FDVernon Hills, IL^FS ^XZ	

Example • This is an example of when receive this command many times, only is valid for last one. And this command also is valid for others label format unless restart or reset.

```
^XA
^PW800
^LL100
^POI
^PON
^POI
^FO0,0^AEN,28,15^FDAaBBCDEFG123456789901^FS
^FO0,50^AEN,28,15^FDAaBBCDEFG123456789902^FS
^XZ
^XA
^FO0,0^AEN,28,15^FDAaBBCDEFG123456789901^FS
^FO0,50^AEN,28,15^FDAaBBCDEFG123456789902^FS
^XZ
```

The ^POI command inverts the x, y coordinates. All image placement is relative to these inverted coordinates. Therefore, a different ^LH (Label Home) can be used to move the print back onto the label.

Comments If multiple ^PO commands are issued in the same label format, only the last command sent to the printer is used.

Once the ^PO command is sent, the setting is retained until another ^PO command is received or the printer is turned off.

~PQ

Print Quantity

Description The ^PQ command gives control over several printing operations. It controls the number of labels to print, the number of labels printed before printer pauses, and the number of replications of each serial number.

Format ^PQq,p,r,o

Parameters	Details
q = total quantity of labels to print	*Accepted Value:* 1 to 99,999,999 *Default Value:* 1
p = pause and cut value (labels between pauses)	*Accepted Value:* 1 to 99,999,999 *Default Value:* 0 (no pause)
r = replicates of each serial number	*Accepted Value:* 0 to 99,999,999 replicates *Default Value:* 0 (no replicates)
o = override pause count	*Accepted Values:* N = no Y = yes *Default Value:* N

If the o parameter is set to Y, the printer cuts but does not pause, and the printer does not pause after every group count of labels has been printed. With the o parameter set to N (default), the printer pauses after every group count of labels has been printed.

Example • This example shows the control over print operations:

^PQ50,10,1,Y: This example prints a total of 50 labels with one replicate of each serial number. It prints the total quantity in groups of 10, but does not pause after every group.

^PQ50,10,1,N: This example prints a total of 50 labels with one replicate of each serial number. It prints the total quantity in groups of 10, pausing after every group.

^PW

Print Width

Description The ^PW command allows you to set the print width.

Format ^PWa

a =	label width (in dots)	*Accepted Values:* 2, to the width of the label If the value exceeds the width of the label, the width is set to the label's maximum size. *Default Value:* last permanently saved value

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Example • This is an example of when field exceeds the printing width, then the excess part cannot be printed. And this command also is valid for others label format unless restart or reset.

```
^XA
^PW300
^LL200
^FO10,30^ACN^FD1ABCDEFGHIJKLMN0123^FS
^FO10,80^ACN^FD2ABCDEFGHIJKLMN0123456789abcdefghijklmnopqrstuvwxyz^FS
^XZ

^XA
^FO10,30^ACN^FD3ABCDEFGHIJKLMN01234567890001^FS
^FO160,70^BY2^BUN,80,Y,N,Y^FD12345678930^FS
^XZ
```

Example • This is an example of when the height set exceeds the maximum printable width, print at the maximum printable width.

```
^XA
^LL100
^PW2
^FO00,34^AEN^FD1ABCDEFGHIJKLMN0123456789^FS^XZ

^XA
^PW100
^FO00,34^AEN^FD2ABCDEFGHIJKLMN0123456789^FS^XZ

^XA
^PW576
^FO00,34^AEN^FD3ABCDEFGHIJKLMN012345678900000001^FS^XZ

^XA
^PW864
^FO00,34^AEN^FD4ABCDEFGHIJKLMN0123456789111111111111111111112^FS^XZ

^XA
^PW1000
^FO00,34^AEN^FD5ABCDEFGHIJKLMN012345678933333333333333333334^FS^XZ
```

Comments This command is ignored on the HC100™ printer.

^SF

Serialization Field (with a Standard ^FD String)

Description The ^SF command allows you to serialize a standard ^FD string. The maximum size of the mask and increment string is 3K combined.

Format ^SFa,b

Parameters	Details
a = mask string	The mask string sets the serialization scheme. The length of the string mask defines the number of characters (or in firmware version x.14 and later, combining semantic clusters) in the current ^FD string to be serialized. The mask is aligned to the characters (or in firmware version x.14 and later, combining semantic clusters) in the ^FD string starting with the right-most (or in firmware x.14 and later, last) in the backing store position. *Mask String placeholders:* D or d – Decimal numeric 0–9 H or h – Hexadecimal 0–9 plus a-f or A-F O or o – Octal 0–7 A or a – Alphabetic A–Z or a–z N or n – Alphanumeric 0–9 plus A–Z or a–z % – Ignore character or skip
b = increment string	The increment string is the value to be added to the field on each label. The default value is equivalent to a decimal value of one. The string is composed of any characters (or in firmware version x.14 and later, combining semantic clusters) defined in the serial string. Invalid characters (or in firmware version x.14 and later, combining semantic clusters) are assumed to be equal to a value of zero in that characters (or in firmware version x.14 and later, combining semantic clusters) position. The increment value for alphabetic strings start with 'A' or 'a' as the zero placeholder. This means to increment an alphabetic character (or in firmware version x.14 and later, combining semantic cluster) by one, a value of 'B' or 'b' must be in the increment string.

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

For characters that do not get incremented, the % character needs to be added to the increment string.

Example • This is an example of serializing a ^FD string. The ZPL II code generates three separate labels as seen in Generated Labels:

ZPL II CODE	GENERATED LABELS
^XA ^FO100,100 ^CF0,100 ^FD12A^SFnnA,F^FS ^PQ3 ^XZ	12K 12F 12A

This mask has the first characters (or in firmware version x.14 and later, the first combining semantic clusters) as alphanumeric (nn = 12) and the last digit as uppercase alphabetic (A). The decimal value of the increment number is equivalent to 5 (F). The number of labels generated depends on the number specified by the ^PQ command.

In a similar instance, the ^FD string could be replaced with either of the ^FD strings below to generate a series of label, determined by ^PQ.

Using this ZPL code:

```
^FDBL0000^SFAAdddd,1
```

The print sequence on this series of labels is:

```
BL0000, BL0001,...BL0009, BL0010,...
BL0099, BL0100,...BL9999, BM0000...
```

Using this ZPL code:

```
^FDBL00-0^SFAAdd%d,1%1
```

The print sequence on this series of labels is:

```
BL00-0, BL01-1, BL02-2,...BL09-9,
BL11-0, BL12-1...
```

~TA

Tear-off Adjust Position

Description The ~TA command lets you adjust the rest position of the media after a label is printed, which changes the position at which the label is torn or cut.

Format ~TA###

Important • These are some important facts about this command:
• For 600 dpi printers, the step size doubles.
• If the number of characters is less than 3, the command is ignored.

Parameters	Details
### = change in media rest position (3-digit value in dot rows must be used.)	*Accepted Values:* -120 to 120 0 to 120 (on the HC100) *Default Value:* last permanent value saved

[This parameter is only available on printers with firmware]HTxxV1.0.05_Beta8.img

Example • This is an example of when the printer is power off, the command will not be saved.

```
~TA040
^XA
^PW800
^LL640
^LH20,0
^FO0,52,0^GB744,2,2,B,0^FS
^FO0,246,0^GB592,2,2,B,0^FS
^FO0,396,0^GB744,2,2,B,0^FS
^FO128,246,0^GB2,150,2,B,0^FS
^FO602,68,0^GB2,312,2,B,0^FS
^FO0,472,0^GB744,2,2,B,0^FS
^FO8,76,0^BQN,2,6,L^FD www.hprt.com^FS
^FT48,44,0^CFC,36,20^FD Shipment NO: A^FS^FT^SN0405288,1,Y^FS
^FO618,76^BY3^BUB,100,Y,N,Y^FD01234567890^FS
^FO64,487^BY3,2.7^B3N,N,110,Y,N^FD360013990189^FS
^FO8,276,0^A0N,35,27^FD Consignee^FS
^FO8,326,0^A0N,35,25^FD Information^FS
^FO168,72,0^ABN,33,14^FD Shipper information^FS
^FO168,112,0^CFF,26,13^TBN,400,30^FD Contact Person:Andrew^FS
^FO168,142,0^TBN,400,52^FD Address:Huli District,Xiamen,China^FS
^FO168,194,0^TBN,400,52^FD Area Code:XXX Tel:0061418705X^FS
^FO136,256,0^FD Contact Person:Jasmine^FS
^FO136,286,0^FD Address:Nanyin District,Dubai^FS
^FO136,316,0^FD Area Code:XXX^FS
^FO136,346,0^FD Tel:0061418705X^FS
^FO168,406,0^AVN,80,71^FD XiaMen China^FS
^PQ1
^XZ
```

Comments If the parameter is missing or invalid, the command is ignored.

Addenda

20-7F(FrontA-V) Test

```
^XA
^LL120
^FO0,0^A0N,15,12^FD !"#$%&'()*+,-./^FS
^FO0,15^A0N,15,12^FD0123456789:;<=>?^FS
^FO0,30^A0N,15,12^FD@ABCDEFGHIJKLMNO^FS
^FO0,45^A0N,15,12^FH^FDPQRSTUVWXYZ[\]_5E_5F^FS
^FO0,60^A0N,15,12^FD`abcdefghijklmno^FS
^FO0,75^A0N,15,12^FH^FDpqrstuvwxyz{|}_7E_7F^FS
^XZ

^XA
^LL80
^FO0,0^AAN,9,5^FD !"#$%&'()*+,-./^FS
^FO0,9^AAN,9,5^FD0123456789:;<=>?^FS
^FO0,18^AAN,9,5^FD@ABCDEFGHIJKLMNO^FS
^FO0,27^AAN,9,5^FH^FDPQRSTUVWXYZ[\]_5E_5F^FS
^FO0,36^AAN,9,5^FD`abcdefghijklmno^FS
^FO0,45^AAN,9,5^FH^FDpqrstuvwxyz{|}_7E_7F^FS
^XZ

^XA
^LL80
^FO0,0^ABN,11,7^FD !"#$%&'()*+,-./^FS
^FO0,11^ABN,11,7^FD0123456789:;<=>?^FS
^FO0,22^ABN,11,7^FD@ABCDEFGHIJKLMNO^FS
^FO0,33^ABN,11,7^FH^FDPQRSTUVWXYZ[\]_5E_5F^FS
^FO0,44^ABN,11,7^FD`abcdefghijklmno^FS
^FO0,55^ABN,11,7^FH^FDpqrstuvwxyz{|}_7E_7F^FS
^XZ

^XA
^LL140
^FO0,0^ACN,18,10^FD !"#$%&'()*+,-./^FS
^FO0,18^ACN,18,10^FD0123456789:;<=>?^FS
^FO0,36^ACN,18,10^FD@ABCDEFGHIJKLMNO^FS
^FO0,54^ACN,18,10^FH^FDPQRSTUVWXYZ[\]_5E_5F^FS
^FO0,72^ACN,18,10^FD`abcdefghijklmno^FS
^FO0,90^ACN,18,10^FH^FDpqrstuvwxyz{|}_7E_7F^FS
^XZ
```

```
^XA
^LL140
^FO0,0^ADN,18,10^FD !"#$%&'()*+,-./^FS
^FO0,18^ADN,18,10^FD0123456789:;<=>?^FS
^FO0,36^ADN,18,10^FD@ABCDEFGHIJKLMNO^FS
^FO0,54^ADN,18,10^FH^FDPQRSTUVWXYZ[\]_5E_5F^FS
^FO0,72^ADN,18,10^FD`abcdefghijklmno^FS
^FO0,90^ADN,18,10^FH^FDpqrstuvwxyz{|}_7E_7F^FS
^XZ

^XA
^LL200
^FO0,0^AEN,28,15^FD !"#$%&'()*+,-./^FS
^FO0,28^AEN,28,15^FD0123456789:;<=>?^FS
^FO0,56^AEN,28,15^FD@ABCDEFGHIJKLMNO^FS
^FO0,84^AEN,28,15^FH^FDPQRSTUVWXYZ[\]_5E_5F^FS
^FO0,112^AEN,28,15^FD`abcdefghijklmno^FS
^FO0,140^AEN,28,15^FH^FDpqrstuvwxyz{|}_7E_7F^FS
^XZ

^XA
^LL200
^FO0,0^AFN,26,13^FD !"#$%&'()*+,-./^FS
^FO0,26^AFN,26,13^FD0123456789:;<=>?^FS
^FO0,52^AFN,26,13^FD@ABCDEFGHIJKLMNO^FS
^FO0,78^AFN,26,13^FH^FDPQRSTUVWXYZ[\]_5E_5F^FS
^FO0,104^AFN,26,13^FD`abcdefghijklmno^FS
^FO0,130^AFN,26,13^FH^FDpqrstuvwxyz{|}_7E_7F^FS
^XZ


^XA
^LL400
^FO0,0^AGN,60,40^FD !"#$%&'()*+,-./^FS
^FO0,60^AGN,60,40^FD0123456789:;<=>?^FS
^FO0,120^AGN,60,40^FD@ABCDEFGHIJKLMNO^FS
^FO0,180^AGN,60,40^FH^FDPQRSTUVWXYZ[\]_5E_5F^FSS
^FO0,240^AGN,60,40^FD`abcdefghijklmno^FSS
^FO0,300^AGN,60,40^FH^FDpqrstuvwxyz{|}_7E_7F^FS
^XZ

^XA
^LL140
```

```
^FO0,0^AHN,21,13^FD !"#$%&'()*+,-./^FS
^FO0,21^AHN,21,13^FD0123456789:;<=>?^FS
^FO0,42^AHN,21,13^FD@ABCDEFGHIJKLMNO^FS
^FO0,63^AHN,21,13^FH^FDPQRSTUVWXYZ[\]_5E_5F^FSS
^FO0,84^AHN,21,13^FD`abcdefghijklmno^FSS
^FO0,105^AHN,21,13^FH^FDpqrstuvwxyz{|}_7E_7F^FS
^XZ

^XA
^LL140
^FO0,0^APN,20,18^FD !"#$%&'()*+,-./^FS
^FO0,20^APN,20,18^FD0123456789:;<=>?^FS
^FO0,40^APN,20,18^FD@ABCDEFGHIJKLMNO^FS
^FO0,60^APN,20,18^FH^FDPQRSTUVWXYZ[\]_5E_5F^FS
^FO0,80^APN,20,18^FD`abcdefghijklmno^FS
^FO0,100^APN,20,18^FH^FDpqrstuvwxyz{|}_7E_7F^FS
^XZ

^XA
^LL200
^FO0,0^AQN,28,24^FD !"#$%&'()*+,-./^FS
^FO0,28^AQN,28,24^FD0123456789:;<=>?^FS
^FO0,56^AQN,28,24^FD@ABCDEFGHIJKLMNO^FS
^FO0,84^AQN,28,24^FH^FDPQRSTUVWXYZ[\]_5E_5F^FS
^FO0,112^AQN,28,24^FD`abcdefghijklmno^FS
^FO0,140^AQN,28,24^FH^FDpqrstuvwxyz{|}_7E_7F^FS
^XZ

^XA
^LL220
^FO0,0^ARN,35,31^FD !"#$%&'()*+,-./^FS
^FO0,35^ARN,35,31^FD0123456789:;<=>?^FS
^FO0,70^ARN,35,31^FD@ABCDEFGHIJKLMNO^FS
^FO0,105^ARN,35,31^FH^FDPQRSTUVWXYZ[\]_5E_5F^FS
^FO0,140^ARN,35,31^FD`abcdefghijklmno^FS
^FO0,175^ARN,35,31^FH^FDpqrstuvwxyz{|}_7E_7F^FS
^XZ

^XA
^LL260
^FO0,0^ASN,40,35^FD !"#$%&'()*+,-./^FS
^FO0,40^ASN,40,35^FD0123456789:;<=>?^FS
^FO0,80^ASN,40,35^FD@ABCDEFGHIJKLMNO^FS
^FO0,120^ASN,40,35^FH^FDPQRSTUVWXYZ[\]_5E_5F^FS
^FO0,160^ASN,40,35^FD`abcdefghijklmno^FS
```

```
^FO0,200^ASN,40,35^FH^FDpqrstuvwxyz{|}_7E_7F^FS
^XZ

^XA
^LL300
^FO0,0^ATN,48,42^FD !"#$%&'()*+,-./^FS
^FO0,48^ATN,48,42^FD0123456789:;<=>?^FS
^FO0,96^ATN,48,42^FD@ABCDEFGHIJKLMNO^FS
^FO0,144^ATN,48,42^FH^FDPQRSTUVWXYZ[\]_5E_5F^FS
^FO0,192^ATN,48,42^FD`abcdefghijklmno^FS
^FO0,240^ATN,48,42^FH^FDpqrstuvwxyz{|}_7E_7F^FS
^XZ

^XA
^LL400
^FO0,0^AUN,59,53^FD !"#$%&'()*+,-./^FS
^FO0,59^AUN,59,53^FD0123456789:;<=>?^FS
^FO0,118^AUN,59,53^FD@ABCDEFGHIJKLMNO^FS
^FO0,190^AUN,59,53^FH^FDPQRSTUVWXYZ[\]_5E_5F^FS
^FO0,236^AUN,59,53^FD`abcdefghijklmno^FS
^FO0,295^AUN,59,53^FH^FDpqrstuvwxyz{|}_7E_7F^FS
^XZ

^XA
^LL520
^FO0,0^AVN,80,71^FD !"#$%&'()*+,-./^FS
^FO0,80^AVN,80,71^FD0123456789:;<=>?^FS
^FO0,160^AVN,80,71^FD@ABCDEFGHIJKLMNO^FS
^FO0,240^AVN,80,71^FH^FDPQRSTUVWXYZ[\]_5E_5F^FS
^FO0,320^AVN,80,71^FD`abcdefghijklmno^FS
^FO0,400^AVN,80,71^FH^FDpqrstuvwxyz{|}_7E_7F^FS
^XZ
```

Enlarging Front Test

```
^XA
^PW800
^LL800
^FO50, 50^AAN, 9, 5^FDFont A,(x1)9x5^FS
^FO50,100^AAN,18,10^FDFont-A,(x2)9x5^FS
^FO50,150^AAN,27,15^FDFont-A,(x3)9x5^FS
^FO50,200^AAN,36,20^FDFont-A,(x4)9x5^FS
^FO50,250^AAN,45,25^FDFont-A,(x5)9x5^FS
^FO50,310^AAN,54,30^FDFont-A,(x6)9x5^FS
^FO50,380^AAN,63,35^FDFont-A,(x7)9x5^FS
^FO50,460^AAN,72,40^FDFont-A,(x8)9x5^FS
^FO50,550^AAN,81,45^FDFont-A,(x9)9x5^FS
^FO50,670^AAN,90,50^FDFont-A,(x10)9x5^FS
^XZ
^XA
^FO50, 50^AAN, 9,25^FDFont A,(x1,5)9x5^FS
^FO50,100^AAN,18,25^FDFont-A,(x2,5)9x5^FS
^FO50,150^AAN,27,25^FDFont-A,(x3,5)9x5^FS
^FO50,200^AAN,36,25^FDFont-A,(x4,5)9x5^FS
^FO50,250^AAN,45,25^FDFont-A,(x5,5)9x5^FS
^FO50,310^AAN,54,25^FDFont-A,(x6,5)9x5^FS
^FO50,380^AAN,63,25^FDFont-A,(x7,5)9x5^FS
^FO50,460^AAN,72,25^FDFont-A,(x8,5)9x5^FS
^FO50,550^AAN,81,25^FDFont-A,(x9,5)9x5^FS
^FO50,670^AAN,90,25^FDFont-A,(x10,5)9x5^FS
^XZ

^XA
^FO50, 50^ABN,11, 7^FDFont-B,(x1)11x7, auto change to upper case^FS
^FO50, 80^ABN,22,14^FDFont-B,(x2)11x7^FS
^FO50,130^ABN,33,21^FDFont-B,(x3)11x7^FS
^FO50,180^ABN,44,28^FDFont-B,(x4)11x7^FS
^FO50,230^ABN,55,35^FDFont-B,(x5)11x7^FS
^FO50,300^ABN,66,42^FDFont-B,(x6)11x7^FS
^FO50,380^ABN,77,49^FDFont-B,(x7)11x7^FS
^FO50,470^ABN,88,58^FDFont-B,(x8)11x7^FS
^FO50,570^ABN,99,63^FDFont-B,(x9)11x7^FS
^FO50,680^ABN,110,70^FDFont-B,(x10)11x7^FS
^XZ
^XA
^FO50, 50^ABN,11,28^FDFont-B,(x1,4)11x7, auto change to upper
case^FS
```

```
^FO50, 80^ABN,22,28^FDFont-B,(x2,4)11x7^FS
^FO50,130^ABN,33,28^FDFont-B,(x3,4)11x7^FS
^FO50,180^ABN,44,28^FDFont-B,(x4,4)11x7^FS
^FO50,230^ABN,55,28^FDFont-B,(x5,4)11x7^FS
^FO50,300^ABN,66,28^FDFont-B,(x6,4)11x7^FS
^FO50,380^ABN,77,28^FDFont-B,(x7,4)11x7^FS
^FO50,470^ABN,88,28^FDFont-B,(x8,4)11x7^FS
^FO50,570^ABN,99,28^FDFont-B,(x9,4)11x7^FS
^FO50,680^ABN,110,24^FDFont-B,(x10,4)11x7^FS
^XZ

^XA
^FO50, 50^ACN,18,10^FDFont-C,(x1)18x10^FS
^FO50,100^ACN,36,20^FDFont-C,(x2)18x10^FS
^FO50,150^ACN,54,30^FDFont-C,(x3)18x10^FS
^FO50,220^ACN,72,40^FDFont-C,(x4)18x10^FS
^FO50,310^ACN,90,50^FDFont-C,(x5)18x10^FS
^FO50,420^ACN,108,60^FDFont-C,(x6)18x10^FS
^FO50,540^ACN,126,70^FDFont-C,(x7)18x10^FS
^FO50,686^ACN,144,80^FDFont-C,(x8)18x10^FS
^XZ
^XA
^FO50, 50^ACN,18,30^FDFont-C,(x1,3)18x10^FS
^FO50,100^ACN,36,30^FDFont-C,(x2,3)18x10^FS
^FO50,150^ACN,54,30^FDFont-C,(x3,3)18x10^FS
^FO50,220^ACN,72,30^FDFont-C,(x4,3)18x10^FS
^FO50,310^ACN,90,30^FDFont-C,(x5,3)18x10^FS
^FO50,420^ACN,108,30^FDFont-C,(x6,3)18x10^FS
^FO50,540^ACN,126,30^FDFont-C,(x7,3)18x10^FS
^FO50,686^ACN,144,30^FDFont-C,(x8,3)18x10^FS
^XZ

^XA
^FO50, 50^ADN,18,10^FDFont-D,(x1)18x10^FS
^FO50,100^ADN,36,20^FDFont-D,(x2)18x10^FS
^FO50,150^ADN,54,30^FDFont-D,(x3)18x10^FS
^FO50,220^ADN,72,40^FDFont-D,(x4)18x10^FS
^FO50,310^ADN,90,50^FDFont-D,(x5)18x10^FS
^FO50,420^ADN,108,60^FDFont-D,(x6)18x10^FS
^FO50,540^ADN,126,70^FDFont-D,(x7)18x10^FS
^FO50,686^ADN,144,80^FDFont-D,(x8)18x10^FS
^XZ
^XA
^FO50, 50^ADN,18,30^FDFont-D,(x1,3)18x10^FS
^FO50,100^ADN,36,30^FDFont-D,(x2,3)18x10^FS
```

```
^FO50,150^ADN,54,30^FDFont-D,(x3,3)18x10^FS
^FO50,220^ADN,72,30^FDFont-D,(x4,3)18x10^FS
^FO50,310^ADN,90,30^FDFont-D,(x5,3)18x10^FS
^FO50,420^ADN,108,30^FDFont-D,(x6,3)18x10^FS
^FO50,540^ADN,126,30^FDFont-D,(x7,3)18x10^FS
^FO50,686^ADN,144,30^FDFont-D,(x8,3)18x10^FS
^XZ

^XA
^FO50, 50^AEN,28,15^FDFont-E,OCR-B,(x1)28x15^FS
^FO50,100^AEN,56,30^FDFont-E,OCR-B,(x2)28x15^FS
^FO50,170^AEN,84,45^FDFont-E,OCR-B,(x3)28x15^FS
^FO50,270^AEN,112,60^FDFont-E,OCR-B,(x4)28x15^FS
^FO50,400^AEN,140,75^FDFont-E,OCR-B,(x5)28x15^FS
^FO50,560^AEN,168,90^FDFont-E,OCR-B,(x6)28x15^FS
^XZ
^XA
^FO50, 50^AEN,28,30^FDFont-E,OCR-B,(x1,2)28x15^FS
^FO50,100^AEN,56,30^FDFont-E,OCR-B,(x2,2)28x15^FS
^FO50,170^AEN,84,30^FDFont-E,OCR-B,(x3,2)28x15^FS
^FO50,270^AEN,112,30^FDFont-E,OCR-B,(x4,2)28x15^FS
^FO50,400^AEN,140,30^FDFont-E,OCR-B,(x5,2)28x15^FS
^FO50,560^AEN,168,30^FDFont-E,OCR-B,(x6,2)28x15^FS
^XZ

^XA
^FO50, 50^AFN,26,13^FDFont-F,(x1)26x13^FS
^FO50,100^AFN,52,26^FDFont-F,(x2)26x13^FS
^FO50,170^AFN,78,39^FDFont-F,(x3)26x13^FS
^FO50,270^AFN,104,52^FDFont-F,(x4)26x13^FS
^FO50,400^AFN,130,65^FDFont-F,(x5)26x13^FS
^FO50,560^AFN,156,78^FDFont-F,(x6)26x13^FS
^XZ
^XA
^FO50, 50^AFN,26,26^FDFont-F,(x1,2)26x13^FS
^FO50,100^AFN,52,26^FDFont-F,(x2,2)26x13^FS
^FO50,170^AFN,78,26^FDFont-F,(x3,2)26x13^FS
^FO50,270^AFN,104,26^FDFont-F,(x4,2)26x13^FS
^FO50,400^AFN,130,26^FDFont-F,(x5,2)26x13^FS
^FO50,560^AFN,156,26^FDFont-F,(x6,2)26x13^FS
^XZ

^XA
^FO50, 50^AHN,21,13^FDFONT-H,OCR-A,(X1)21X13 UPPER CASE ONLY^FS
^FO50,100^AHN,42,26^FDFONT-H,OCR-A,(X2)21x13^FS
```

```
^FO50,170^AHN,62,39^FDFONT-H,OCR-A,(x3)21x13^FS
^FO50,270^AHN,84,52^FDFONT-H,OCR-A,(x4)21x13^FS
^FO50,400^AHN,105,65^FDFONT-H,OCR-A,(x5)21x13^FS
^FO50,560^AHN,126,78^FDFONT-H,OCR-A,(x6)21x13^FS
^XZ
^XA
^FO50, 50^AHN,21,26^FDFONT-H,OCR-A,(X1,2)21X13 UPPER CASE ONLY^FS
^FO50,100^AHN,42,26^FDFONT-H,OCR-A,(X2,2)21x13^FS
^FO50,170^AHN,62,26^FDFONT-H,OCR-A,(x3,2)21x13^FS
^FO50,270^AHN,84,26^FDFONT-H,OCR-A,(x4,2)21x13^FS
^FO50,400^AHN,105,26^FDFONT-H,OCR-A,(x5,2)21x13^FS
^FO50,560^AHN,126,26^FDFONT-H,OCR-A,(x6,2)21x13^FS
^XZ

^XA
^FO50, 50^APN,20,18^FDFont P,20x18^FS
^FO50,100^APN,28,24^FDFont P,28x24^FS
^FO50,150^APN,35,31^FDFont P,35x31^FS
^FO50,205^APN,40,35^FDFont P,40x35^FS
^FO50,265^APN,48,42^FDFont P,48x42^FS
^FO50,330^APN,59,53^FDFont P,59x53^FS
^FO50,410^APN,80,71^FDFont P,80x71^FS
^FO50,510^APN,100,85^FDFont P,100x85^FS
^XZ

^XA
^FO50, 50^AQN,20,18^FDFont Q,20x18^FS
^FO50,100^AQN,28,24^FDFont Q,28x24^FS
^FO50,150^AQN,35,31^FDFont Q,35x31^FS
^FO50,205^AQN,40,35^FDFont Q,40x35^FS
^FO50,265^AQN,48,42^FDFont Q,48x42^FS
^FO50,330^AQN,59,53^FDFont Q,59x53^FS
^FO50,410^AQN,80,71^FDFont Q,80x71^FS
^FO50,510^AQN,100,85^FDFont Q,100x85^FS
^XZ

^XA
^FO50, 50^ARN,20,18^FDFont R,20x18^FS
^FO50,100^ARN,28,24^FDFont R,28x24^FS
^FO50,150^ARN,35,31^FDFont R,35x31^FS
^FO50,205^ARN,40,35^FDFont R,40x35^FS
^FO50,265^ARN,48,42^FDFont R,48x42^FS
^FO50,330^ARN,59,53^FDFont R,59x53^FS
^FO50,410^ARN,80,71^FDFont R,80x71^FS
^FO50,510^ARN,100,85^FDFont R,100x85^FS
```

```
^XZ

^XA
^FO50, 50^ASN,20,18^FDFont S,20x18^FS
^FO50,100^ASN,28,24^FDFont S,28x24^FS
^FO50,150^ASN,35,31^FDFont S,35x31^FS
^FO50,205^ASN,40,35^FDFont S,40x35^FS
^FO50,265^ASN,48,42^FDFont S,48x42^FS
^FO50,330^ASN,59,53^FDFont S,59x53^FS
^FO50,410^ASN,80,71^FDFont S,80x71^FS
^FO50,510^ASN,100,85^FDFont S,100x85^FS
^XZ

^XA
^FO50, 50^ATN,20,18^FDFont T,20x18^FS
^FO50,100^ATN,28,24^FDFont T,28x24^FS
^FO50,150^ATN,35,31^FDFont T,35x31^FS
^FO50,205^ATN,40,35^FDFont T,40x35^FS
^FO50,265^ATN,48,42^FDFont T,48x42^FS
^FO50,330^ATN,59,53^FDFont T,59x53^FS
^FO50,410^ATN,80,71^FDFont T,80x71^FS
^FO50,510^ATN,100,85^FDFont T,100x85^FS
^XZ

^XA
^FO50, 50^AUN,20,18^FDFont U,20x18^FS
^FO50,100^AUN,28,24^FDFont U,28x24^FS
^FO50,150^AUN,35,31^FDFont U,35x31^FS
^FO50,205^AUN,40,35^FDFont U,40x35^FS
^FO50,265^AUN,48,42^FDFont U,48x42^FS
^FO50,330^AUN,59,53^FDFont U,59x53^FS
^FO50,410^AUN,80,71^FDFont U,80x71^FS
^FO50,510^AUN,100,85^FDFont U,100x85^FS
^XZ

^XA
^FO50, 50^AVN,20,18^FDFont V,20x18^FS
^FO50,100^AVN,28,24^FDFont V,28x24^FS
^FO50,150^AVN,35,31^FDFont V,35x31^FS
^FO50,205^AVN,40,35^FDFont V,40x35^FS
^FO50,265^AVN,48,42^FDFont V,48x42^FS
^FO50,330^AVN,59,53^FDFont V,59x53^FS
^FO50,410^AVN,80,71^FDFont V,80x71^FS
^FO50,510^AVN,100,85^FDFont V,100x85^FS
^XZ
```

ZPL2 resident fonts analysis cases test

```
^XA
^LL640
^PW800
^LH0,0
^MTD
~SD10
^MD6
^XZ

^XA
^FO50, 24^A0N,50,40^FDFont-A 9x5 (x10)^FS
^FO200,80^GB1,540,1,B,0^FS
^FO400,80^GB1,540,1,B,0^FS
^FO600,80^GB1,540,1,B,0^FS
^FO50,220^GB700,1,1,B,0^FS
^FO50,500^GB700,1,1,B,0^FS
^FO200,220,0^AAN,90,50^FPH^FDH^FS
^FT200,220,0^AAN,90,50^FPH^FDh^FS
^FO200,220,1^AAN,90,50^FPH^FDh^FS
^FT200,220,1^AAN,90,50^FPH^FDH^FS
^FO400,220,0^AAN,90,50^FPH^FD;^FS
^FT400,220,0^AAN,90,50^FPH^FD;^FS
^FO400,220,1^AAN,90,50^FPH^FD;^FS
^FT400,220,1^AAN,90,50^FPH^FD;^FS
^FO600,220,0^AAN,90,50^FPH^FDJ^FS
^FT600,220,0^AAN,90,50^FPH^FDj^FS
^FO600,220,1^AAN,90,50^FPH^FDj^FS
^FT600,220,1^AAN,90,50^FPH^FDJ^FS
^FO200,500,0^AAN,90,50^FPH^FDZ^FS
^FT200,500,0^AAN,90,50^FPH^FDz^FS
^FO200,500,1^AAN,90,50^FPH^FDz^FS
^FT200,500,1^AAN,90,50^FPH^FDZ^FS
^FO400,500,0^AAN,90,50^FPH^FD'^FS
^FT400,500,0^AAN,90,50^FPH^FD"^FS
^FO400,500,1^AAN,90,50^FPH^FD"^FS
^FT400,500,1^AAN,90,50^FPH^FD'^FS
^FO600,500,0^AAN,90,50^FPH^FDg^FS
^FT600,500,0^AAN,90,50^FPH^FDG^FS
^FO600,500,1^AAN,90,50^FPH^FDg^FS
^FT600,500,1^AAN,90,50^FPH^FDG^FS
^XZ
```

```
^XA
^FO50, 24^A0N,50,40^FDFont-B 11x7 (x10)^FS
^FO200,80^GB1,540,1,B,0^FS
^FO400,80^GB1,540,1,B,0^FS
^FO600,80^GB1,540,1,B,0^FS
^FO50,220^GB700,1,1,B,0^FS
^FO50,500^GB700,1,1,B,0^FS
^FO200,220,0^ABN,110,70^FPH^FDH^FS
^FT200,220,0^ABN,110,70^FPH^FDh^FS
^FO200,220,1^ABN,110,70^FPH^FDh^FS
^FT200,220,1^ABN,110,70^FPH^FDH^FS
^FO400,220,0^ABN,110,70^FPH^FD;^FS
^FT400,220,0^ABN,110,70^FPH^FD;^FS
^FO400,220,1^ABN,110,70^FPH^FD;^FS
^FT400,220,1^ABN,110,70^FPH^FD;^FS
^FO600,220,0^ABN,110,70^FPH^FDJ^FS
^FT600,220,0^ABN,110,70^FPH^FDj^FS
^FO600,220,1^ABN,110,70^FPH^FDj^FS
^FT600,220,1^ABN,110,70^FPH^FDJ^FS
^FO200,500,0^ABN,110,70^FPH^FDZ^FS
^FT200,500,0^ABN,110,70^FPH^FDz^FS
^FO200,500,1^ABN,110,70^FPH^FDz^FS
^FT200,500,1^ABN,110,70^FPH^FDZ^FS
^FO400,500,0^ABN,110,70^FPH^FD'^FS
^FT400,500,0^ABN,110,70^FPH^FD"^FS
^FO400,500,1^ABN,110,70^FPH^FD"^FS
^FT400,500,1^ABN,110,70^FPH^FD'^FS
^FO600,500,0^ABN,110,70^FPH^FDg^FS
^FT600,500,0^ABN,110,70^FPH^FDG^FS
^FO600,500,1^ABN,110,70^FPH^FDg^FS
^FT600,500,1^ABN,110,70^FPH^FDG^FS
^XZ

^XA
^FO50, 50^A0N,50,40^FDFont-C/D 18x10 (x6)^FS
^FO200,80^GB1,540,1,B,0^FS
^FO400,80^GB1,540,1,B,0^FS
^FO600,80^GB1,540,1,B,0^FS
^FO50,220^GB700,1,1,B,0^FS
^FO50,500^GB700,1,1,B,0^FS
^FO200,220,0^ACN,108,60^FPH^FDH^FS
^FT200,220,0^ACN,108,60^FPH^FDh^FS
^FO200,220,1^ACN,108,60^FPH^FDh^FS
^FT200,220,1^ACN,108,60^FPH^FDH^FS
^FO400,220,0^ACN,108,60^FPH^FD;^FS
```

```
^FT400,220,0^ACN,108,60^FPH^FD;^FS
^FO400,220,1^ACN,108,60^FPH^FD;^FS
^FT400,220,1^ACN,108,60^FPH^FD;^FS
^FO600,220,0^ACN,108,60^FPH^FDJ^FS
^FT600,220,0^ACN,108,60^FPH^FDj^FS
^FO600,220,1^ACN,108,60^FPH^FDj^FS
^FT600,220,1^ACN,108,60^FPH^FDJ^FS
^FO200,500,0^ACN,108,60^FPH^FDZ^FS
^FT200,500,0^ACN,108,60^FPH^FDz^FS
^FO200,500,1^ACN,108,60^FPH^FDz^FS
^FT200,500,1^ACN,108,60^FPH^FDZ^FS
^FO400,500,0^ACN,108,60^FPH^FD'^FS
^FT400,500,0^ACN,108,60^FPH^FD"^FS
^FO400,500,1^ACN,108,60^FPH^FD"^FS
^FT400,500,1^ACN,108,60^FPH^FD'^FS
^FO600,500,0^ACN,108,60^FPH^FDg^FS
^FT600,500,0^ACN,108,60^FPH^FDG^FS
^FO600,500,1^ACN,108,60^FPH^FDg^FS
^FT600,500,1^ACN,108,60^FPH^FDG^FS
^XZ

^XA
^FO50, 50^A0N,50,40^FDFont-E 28x15 (x4)^FS
^FO200,80^GB1,540,1,B,0^FS
^FO400,80^GB1,540,1,B,0^FS
^FO600,80^GB1,540,1,B,0^FS
^FO50,220^GB700,1,1,B,0^FS
^FO50,500^GB700,1,1,B,0^FS
^FO200,220,0^AEN,112,60^FPH^FDH^FS
^FT200,220,0^AEN,112,60^FPH^FDh^FS
^FO200,220,1^AEN,112,60^FPH^FDh^FS
^FT200,220,1^AEN,112,60^FPH^FDH^FS
^FO400,220,0^AEN,112,60^FPH^FD;^FS
^FT400,220,0^AEN,112,60^FPH^FD;^FS
^FO400,220,1^AEN,112,60^FPH^FD;^FS
^FT400,220,1^AEN,112,60^FPH^FD;^FS
^FO600,220,0^AEN,112,60^FPH^FDJ^FS
^FT600,220,0^AEN,112,60^FPH^FDj^FS
^FO600,220,1^AEN,112,60^FPH^FDj^FS
^FT600,220,1^AEN,112,60^FPH^FDJ^FS
^FO200,500,0^AEN,112,60^FPH^FDZ^FS
^FT200,500,0^AEN,112,60^FPH^FDz^FS
^FO200,500,1^AEN,112,60^FPH^FDz^FS
^FT200,500,1^AEN,112,60^FPH^FDZ^FS
^FO400,500,0^AEN,112,60^FPH^FD'^FS
```

```
^FT400,500,0^AEN,112,60^FPH^FD"^FS
^FO400,500,1^AEN,112,60^FPH^FD"^FS
^FT400,500,1^AEN,112,60^FPH^FD'^FS
^FO600,500,0^AEN,112,60^FPH^FDg^FS
^FT600,500,0^AEN,112,60^FPH^FDG^FS
^FO600,500,1^AEN,112,60^FPH^FDg^FS
^FT600,500,1^AEN,112,60^FPH^FDG^FS
^XZ

^XA
^FO50, 50^A0N,50,40^FDFont-F 26x13 (x4)^FS
^FO200,80^GB1,540,1,B,0^FS
^FO400,80^GB1,540,1,B,0^FS
^FO600,80^GB1,540,1,B,0^FS
^FO50,220^GB700,1,1,B,0^FS
^FO50,500^GB700,1,1,B,0^FS
^FO200,220,0^AFN,104,52^FPH^FDH^FS
^FT200,220,0^AFN,104,52^FPH^FDh^FS
^FO200,220,1^AFN,104,52^FPH^FDh^FS
^FT200,220,1^AFN,104,52^FPH^FDH^FS
^FO400,220,0^AFN,104,52^FPH^FD;^FS
^FT400,220,0^AFN,104,52^FPH^FD;^FS
^FO400,220,1^AFN,104,52^FPH^FD;^FS
^FT400,220,1^AFN,104,52^FPH^FD;^FS
^FO600,220,0^AFN,104,52^FPH^FDJ^FS
^FT600,220,0^AFN,104,52^FPH^FDj^FS
^FO600,220,1^AFN,104,52^FPH^FDj^FS
^FT600,220,1^AFN,104,52^FPH^FDJ^FS
^FO200,500,0^AFN,104,52^FPH^FDZ^FS
^FT200,500,0^AFN,104,52^FPH^FDz^FS
^FO200,500,1^AFN,104,52^FPH^FDz^FS
^FT200,500,1^AFN,104,52^FPH^FDZ^FS
^FO400,500,0^AFN,104,52^FPH^FD'^FS
^FT400,500,0^AFN,104,52^FPH^FD"^FS
^FO400,500,1^AFN,104,52^FPH^FD"^FS
^FT400,500,1^AFN,104,52^FPH^FD'^FS
^FO600,500,0^AFN,104,52^FPH^FDg^FS
^FT600,500,0^AFN,104,52^FPH^FDG^FS
^FO600,500,1^AFN,104,52^FPH^FDg^FS
^FT600,500,1^AFN,104,52^FPH^FDG^FS
^XZ

^XA
^FO50, 50^A0N,50,40^FDFont-G 60x40 (x2)^FS
^FO200,80^GB1,540,1,B,0^FS
```

```
^FO400,80^GB1,540,1,B,0^FS
^FO600,80^GB1,540,1,B,0^FS
^FO50,220^GB700,1,1,B,0^FS
^FO50,500^GB700,1,1,B,0^FS
^FO200,220,0^AGN,120,80^FPH^FDH^FS
^FT200,220,0^AGN,120,80^FPH^FDh^FS
^FO200,220,1^AGN,120,80^FPH^FDh^FS
^FT200,220,1^AGN,120,80^FPH^FDH^FS
^FO400,220,0^AGN,120,80^FPH^FD;^FS
^FT400,220,0^AGN,120,80^FPH^FD;^FS
^FO400,220,1^AGN,120,80^FPH^FD;^FS
^FT400,220,1^AGN,120,80^FPH^FD;^FS
^FO600,220,0^AGN,120,80^FPH^FDJ^FS
^FT600,220,0^AGN,120,80^FPH^FDj^FS
^FO600,220,1^AGN,120,80^FPH^FDj^FS
^FT600,220,1^AGN,120,80^FPH^FDJ^FS
^FO200,500,0^AGN,120,80^FPH^FDZ^FS
^FT200,500,0^AGN,120,80^FPH^FDz^FS
^FO200,500,1^AGN,120,80^FPH^FDz^FS
^FT200,500,1^AGN,120,80^FPH^FDZ^FS
^FO400,500,0^AGN,120,80^FPH^FD'^FS
^FT400,500,0^AGN,120,80^FPH^FD"^FS
^FO400,500,1^AGN,120,80^FPH^FD"^FS
^FT400,500,1^AGN,120,80^FPH^FD'^FS
^FO600,500,0^AGN,120,80^FPH^FDg^FS
^FT600,500,0^AGN,120,80^FPH^FDG^FS
^FO600,500,1^AGN,120,80^FPH^FDg^FS
^FT600,500,1^AGN,120,80^FPH^FDG^FS
^XZ

^XA
^FO50, 50^A0N,50,40^FDFont-H 21x13 (x5)^FS
^FO200,80^GB1,540,1,B,0^FS
^FO400,80^GB1,540,1,B,0^FS
^FO600,80^GB1,540,1,B,0^FS
^FO50,220^GB700,1,1,B,0^FS
^FO50,500^GB700,1,1,B,0^FS
^FO200,220,0^AHN,105,65^FPH^FDH^FS
^FT200,220,0^AHN,105,65^FPH^FDh^FS
^FO200,220,1^AHN,105,65^FPH^FDh^FS
^FT200,220,1^AHN,105,65^FPH^FDH^FS
^FO400,220,0^AHN,105,65^FPH^FD;^FS
^FT400,220,0^AHN,105,65^FPH^FD;^FS
^FO400,220,1^AHN,105,65^FPH^FD;^FS
^FT400,220,1^AHN,105,65^FPH^FD;^FS
```

```
^FO600,220,0^AHN,105,65^FPH^FDJ^FS
^FT600,220,0^AHN,105,65^FPH^FDj^FS
^FO600,220,1^AHN,105,65^FPH^FDj^FS
^FT600,220,1^AHN,105,65^FPH^FDJ^FS
^FO200,500,0^AHN,105,65^FPH^FDZ^FS
^FT200,500,0^AHN,105,65^FPH^FDz^FS
^FO200,500,1^AHN,105,65^FPH^FDz^FS
^FT200,500,1^AHN,105,65^FPH^FDZ^FS
^FO400,500,0^AHN,105,65^FPH^FD'^FS
^FT400,500,0^AHN,105,65^FPH^FD"^FS
^FO400,500,1^AHN,105,65^FPH^FD"^FS
^FT400,500,1^AHN,105,65^FPH^FD'^FS
^FO600,500,0^AHN,105,65^FPH^FDg^FS
^FT600,500,0^AHN,105,65^FPH^FDG^FS
^FO600,500,1^AHN,105,65^FPH^FDg^FS
^FT600,500,1^AHN,105,65^FPH^FDG^FS
^XZ
```

Codepages Test

```
 ^XA
^LL640
^LH0,0
^PW800
^MTD
    ^FO50, 10^A0,32,25^FDZPL International Character Sets^FS
    ^FO50, 50^A1,18,16^FD HEX 2 3 4 5 5 5 5 6 7 7 7 7^FS
    ^FO50, 70^A1,18,16^FD    3 0 0 B C D E 0 B C D E^FS
^CI0 ^FO50,100^A1,18,16^FH^FDCI0  # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI1 ^FO50,130^A1,18,16^FH^FDCI1  # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI2 ^FO50,160^A1,18,16^FH^FDCI2  # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI3 ^FO50,190^A1,18,16^FH^FDCI3  # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI4 ^FO50,220^A1,18,16^FH^FDCI4  # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI5 ^FO50,250^A1,18,16^FH^FDCI5  # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI6 ^FO50,280^A1,18,16^FH^FDCI6  # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI7 ^FO50,310^A1,18,16^FH^FDCI7  # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI8 ^FO50,340^A1,18,16^FH^FDCI8  # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI9 ^FO50,370^A1,18,16^FH^FDCI9  # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI10^FO50,400^A1,18,16^FH^FDCI10 # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI11^FO50,430^A1,18,16^FH^FDCI11 # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI12^FO50,460^A1,18,16^FH^FDCI12 # 0 @ [ \ ] _5E ` { | } _7E^FS
^CI13^FO50,490^A1,18,16^FH^FDCI13 # 0 @ [ \ ] _5E ` { | } _7E^FS
^XZ

^XA
^CI0
^FO50, 10^A0,32,25^FDCodepage ID-0^FS
^FO50, 50^A1,18,16^FDHEX 0 1 2 3 4 5 6 7 8 9 A B C D E F^FS
^FO50, 70^A1,18,16^FD  --------------------------------^FS
^FO50,100^A1,18,16^FH^FD 2: _20 _21 _22 _23 _24 _25 _26 _27 _28 _29 _2A _2B
_2C _2D _2E _2F^FS
^FO50,130^A1,18,16^FH^FD 3: _30 _31 _32 _33 _34 _35 _36 _37 _38 _39 _3A _3B
_3C _3D _3E _3F^FS
^FO50,160^A1,18,16^FH^FD 4: _40 _41 _42 _43 _44 _45 _46 _47 _48 _49 _4A _4B
_4C _4D _4E _4F^FS
^FO50,190^A1,18,16^FH^FD 5: _50 _51 _52 _53 _54 _55 _56 _57 _58 _59 _5A _5B
_5C _5D _5E _5F^FS
^FO50,220^A1,18,16^FH^FD 6: _60 _61 _62 _63 _64 _65 _66 _67 _68 _69 _6A _6B
_6C _6D _6E _6F^FS
^FO50,250^A1,18,16^FH^FD 7: _70 _71 _72 _73 _74 _75 _76 _77 _78 _79 _7A _7B
_7C _7D _7E _7F^FS
^FO50,280^A1,18,16^FH^FD 8: _80 _81 _82 _83 _84 _85 _86 _87 _88 _89 _8A _8B
```

```
_8C _8D _8E _8F^FS
^FO50,310^A1,18,16^FH^FD 9: _90 _91 _92 _93 _94 _95 _96 _97 _98 _99 _9A _9B
_9C _9D _9E _9F^FS
^FO50,340^A1,18,16^FH^FD A: _A0 _A1 _A2 _A3 _A4 _A5 _A6 _A7 _A8 _A9 _AA _AB
_AC _AD _AE _AF^FS
^FO50,370^A1,18,16^FH^FD B: _B0 _B1 _B2 _B3 _B4 _B5 _B6 _B7 _B8 _B9 _BA _BB
_BC _BD _BE _BF^FS
^FO50,400^A1,18,16^FH^FD C: _C0 _C1 _C2 _C3 _C4 _C5 _C6 _C7 _C8 _C9 _CA _CB
_CC _CD _CE _CF^FS
^FO50,430^A1,18,16^FH^FD D: _D0 _D1 _D2 _D3 _D4 _D5 _D6 _D7 _D8 _D9 _DA _DB
_DC _DD _DE _DF^FS
^FO50,460^A1,18,16^FH^FD E: _E0 _E1 _E2 _E3 _E4 _E5 _E6 _E7 _E8 _E9 _EA _EB
_EC _ED _EE _EF^FS
^FO50,490^A1,18,16^FH^FD F: _F0 _F1 _F2 _F3 _F4 _F5 _F6 _F7 _F8 _F9 _FA _FB
_FC _FD _FE _FF^FS
^XZ

^XA
^CI1
^FO50, 10^A0,32,25^FDCodepage ID-1^FS
^FO50, 50^A1,18,16^FDHEX 0 1 2 3 4 5 6 7 8 9 A B C D E F^FS
^FO50, 70^A1,18,16^FD  --------------------------------^FS
^FO50,100^A1,18,16^FH^FD 2: _20 _21 _22 _23 _24 _25 _26 _27 _28 _29 _2A _2B
_2C _2D _2E _2F^FS
^FO50,130^A1,18,16^FH^FD 3: _30 _31 _32 _33 _34 _35 _36 _37 _38 _39 _3A _3B
_3C _3D _3E _3F^FS
^FO50,160^A1,18,16^FH^FD 4: _40 _41 _42 _43 _44 _45 _46 _47 _48 _49 _4A _4B
_4C _4D _4E _4F^FS
^FO50,190^A1,18,16^FH^FD 5: _50 _51 _52 _53 _54 _55 _56 _57 _58 _59 _5A _5B
_5C _5D _5E _5F^FS
^FO50,220^A1,18,16^FH^FD 6: _60 _61 _62 _63 _64 _65 _66 _67 _68 _69 _6A _6B
_6C _6D _6E _6F^FS
^FO50,250^A1,18,16^FH^FD 7: _70 _71 _72 _73 _74 _75 _76 _77 _78 _79 _7A _7B
_7C _7D _7E _7F^FS
^FO50,280^A1,18,16^FH^FD 8: _80 _81 _82 _83 _84 _85 _86 _87 _88 _89 _8A _8B
_8C _8D _8E _8F^FS
^FO50,310^A1,18,16^FH^FD 9: _90 _91 _92 _93 _94 _95 _96 _97 _98 _99 _9A _9B
_9C _9D _9E _9F^FS
^FO50,340^A1,18,16^FH^FD A: _A0 _A1 _A2 _A3 _A4 _A5 _A6 _A7 _A8 _A9 _AA _AB
_AC _AD _AE _AF^FS
^FO50,370^A1,18,16^FH^FD B: _B0 _B1 _B2 _B3 _B4 _B5 _B6 _B7 _B8 _B9 _BA _BB
_BC _BD _BE _BF^FS
^FO50,400^A1,18,16^FH^FD C: _C0 _C1 _C2 _C3 _C4 _C5 _C6 _C7 _C8 _C9 _CA _CB
_CC _CD _CE _CF^FS
^FO50,430^A1,18,16^FH^FD D: _D0 _D1 _D2 _D3 _D4 _D5 _D6 _D7 _D8 _D9 _DA _DB
```

```
_DC _DD _DE _DF^FS
^FO50,460^A1,18,16^FH^FD E: _E0 _E1 _E2 _E3 _E4 _E5 _E6 _E7 _E8 _E9 _EA _EB
_EC _ED _EE _EF^FS
^FO50,490^A1,18,16^FH^FD F: _F0 _F1 _F2 _F3 _F4 _F5 _F6 _F7 _F8 _F9 _FA _FB
_FC _FD _FE _FF^FS
^XZ

^XA
^CI2
^FO50, 10^A0,32,25^FDCodepage ID-2^FS
^FO50, 50^A1,18,16^FDHEX 0 1 2 3 4 5 6 7 8 9 A B C D E F^FS
^FO50, 70^A1,18,16^FD  ---------------------------------^FS
^FO50,100^A1,18,16^FH^FD 2: _20 _21 _22 _23 _24 _25 _26 _27 _28 _29 _2A _2B
_2C _2D _2E _2F^FS
^FO50,130^A1,18,16^FH^FD 3: _30 _31 _32 _33 _34 _35 _36 _37 _38 _39 _3A _3B
_3C _3D _3E _3F^FS
^FO50,160^A1,18,16^FH^FD 4: _40 _41 _42 _43 _44 _45 _46 _47 _48 _49 _4A _4B
_4C _4D _4E _4F^FS
^FO50,190^A1,18,16^FH^FD 5: _50 _51 _52 _53 _54 _55 _56 _57 _58 _59 _5A _5B
_5C _5D _5E _5F^FS
^FO50,220^A1,18,16^FH^FD 6: _60 _61 _62 _63 _64 _65 _66 _67 _68 _69 _6A _6B
_6C _6D _6E _6F^FS
^FO50,250^A1,18,16^FH^FD 7: _70 _71 _72 _73 _74 _75 _76 _77 _78 _79 _7A _7B
_7C _7D _7E _7F^FS
^FO50,280^A1,18,16^FH^FD 8: _80 _81 _82 _83 _84 _85 _86 _87 _88 _89 _8A _8B
_8C _8D _8E _8F^FS
^FO50,310^A1,18,16^FH^FD 9: _90 _91 _92 _93 _94 _95 _96 _97 _98 _99 _9A _9B
_9C _9D _9E _9F^FS
^FO50,340^A1,18,16^FH^FD A: _A0 _A1 _A2 _A3 _A4 _A5 _A6 _A7 _A8 _A9 _AA _AB
_AC _AD _AE _AF^FS
^FO50,370^A1,18,16^FH^FD B: _B0 _B1 _B2 _B3 _B4 _B5 _B6 _B7 _B8 _B9 _BA _BB
_BC _BD _BE _BF^FS
^FO50,400^A1,18,16^FH^FD C: _C0 _C1 _C2 _C3 _C4 _C5 _C6 _C7 _C8 _C9 _CA _CB
_CC _CD _CE _CF^FS
^FO50,430^A1,18,16^FH^FD D: _D0 _D1 _D2 _D3 _D4 _D5 _D6 _D7 _D8 _D9 _DA _DB
_DC _DD _DE _DF^FS
^FO50,460^A1,18,16^FH^FD E: _E0 _E1 _E2 _E3 _E4 _E5 _E6 _E7 _E8 _E9 _EA _EB
_EC _ED _EE _EF^FS
^FO50,490^A1,18,16^FH^FD F: _F0 _F1 _F2 _F3 _F4 _F5 _F6 _F7 _F8 _F9 _FA _FB
_FC _FD _FE _FF^FS
^XZ

^XA
^CI3
^FO50, 10^A0,32,25^FDCodepage ID-3^FS
```

```
^FO50, 50^A1,18,16^FDHEX 0 1 2 3 4 5 6 7 8 9 A B C D E F^FS
^FO50, 70^A1,18,16^FD  --------------------------------^FS
^FO50,100^A1,18,16^FH^FD 2: _20 _21 _22 _23 _24 _25 _26 _27 _28 _29 _2A _2B
_2C _2D _2E _2F^FS
^FO50,130^A1,18,16^FH^FD 3: _30 _31 _32 _33 _34 _35 _36 _37 _38 _39 _3A _3B
_3C _3D _3E _3F^FS
^FO50,160^A1,18,16^FH^FD 4: _40 _41 _42 _43 _44 _45 _46 _47 _48 _49 _4A _4B
_4C _4D _4E _4F^FS
^FO50,190^A1,18,16^FH^FD 5: _50 _51 _52 _53 _54 _55 _56 _57 _58 _59 _5A _5B
_5C _5D _5E _5F^FS
^FO50,220^A1,18,16^FH^FD 6: _60 _61 _62 _63 _64 _65 _66 _67 _68 _69 _6A _6B
_6C _6D _6E _6F^FS
^FO50,250^A1,18,16^FH^FD 7: _70 _71 _72 _73 _74 _75 _76 _77 _78 _79 _7A _7B
_7C _7D _7E _7F^FS
^FO50,280^A1,18,16^FH^FD 8: _80 _81 _82 _83 _84 _85 _86 _87 _88 _89 _8A _8B
_8C _8D _8E _8F^FS
^FO50,310^A1,18,16^FH^FD 9: _90 _91 _92 _93 _94 _95 _96 _97 _98 _99 _9A _9B
_9C _9D _9E _9F^FS
^FO50,340^A1,18,16^FH^FD A: _A0 _A1 _A2 _A3 _A4 _A5 _A6 _A7 _A8 _A9 _AA _AB
_AC _AD _AE _AF^FS
^FO50,370^A1,18,16^FH^FD B: _B0 _B1 _B2 _B3 _B4 _B5 _B6 _B7 _B8 _B9 _BA _BB
_BC _BD _BE _BF^FS
^FO50,400^A1,18,16^FH^FD C: _C0 _C1 _C2 _C3 _C4 _C5 _C6 _C7 _C8 _C9 _CA _CB
_CC _CD _CE _CF^FS
^FO50,430^A1,18,16^FH^FD D: _D0 _D1 _D2 _D3 _D4 _D5 _D6 _D7 _D8 _D9 _DA _DB
_DC _DD _DE _DF^FS
^FO50,460^A1,18,16^FH^FD E: _E0 _E1 _E2 _E3 _E4 _E5 _E6 _E7 _E8 _E9 _EA _EB
_EC _ED _EE _EF^FS
^FO50,490^A1,18,16^FH^FD F: _F0 _F1 _F2 _F3 _F4 _F5 _F6 _F7 _F8 _F9 _FA _FB
_FC _FD _FE _FF^FS
^XZ

^XA
^CI4
^FO50, 10^A0,32,25^FDCodepage ID-4^FS
^FO50, 50^A1,18,16^FDHEX 0 1 2 3 4 5 6 7 8 9 A B C D E F^FS
^FO50, 70^A1,18,16^FD  --------------------------------^FS
^FO50,100^A1,18,16^FH^FD 2: _20 _21 _22 _23 _24 _25 _26 _27 _28 _29 _2A _2B
_2C _2D _2E _2F^FS
^FO50,130^A1,18,16^FH^FD 3: _30 _31 _32 _33 _34 _35 _36 _37 _38 _39 _3A _3B
_3C _3D _3E _3F^FS
^FO50,160^A1,18,16^FH^FD 4: _40 _41 _42 _43 _44 _45 _46 _47 _48 _49 _4A _4B
_4C _4D _4E _4F^FS
^FO50,190^A1,18,16^FH^FD 5: _50 _51 _52 _53 _54 _55 _56 _57 _58 _59 _5A _5B
_5C _5D _5E _5F^FS
```

```
^FO50,220^A1,18,16^FH^FD 6: _60 _61 _62 _63 _64 _65 _66 _67 _68 _69 _6A _6B
_6C _6D _6E _6F^FS
^FO50,250^A1,18,16^FH^FD 7: _70 _71 _72 _73 _74 _75 _76 _77 _78 _79 _7A _7B
_7C _7D _7E _7F^FS
^FO50,280^A1,18,16^FH^FD 8: _80 _81 _82 _83 _84 _85 _86 _87 _88 _89 _8A _8B
_8C _8D _8E _8F^FS
^FO50,310^A1,18,16^FH^FD 9: _90 _91 _92 _93 _94 _95 _96 _97 _98 _99 _9A _9B
_9C _9D _9E _9F^FS
^FO50,340^A1,18,16^FH^FD A: _A0 _A1 _A2 _A3 _A4 _A5 _A6 _A7 _A8 _A9 _AA _AB
_AC _AD _AE _AF^FS
^FO50,370^A1,18,16^FH^FD B: _B0 _B1 _B2 _B3 _B4 _B5 _B6 _B7 _B8 _B9 _BA _BB
_BC _BD _BE _BF^FS
^FO50,400^A1,18,16^FH^FD C: _C0 _C1 _C2 _C3 _C4 _C5 _C6 _C7 _C8 _C9 _CA _CB
_CC _CD _CE _CF^FS
^FO50,430^A1,18,16^FH^FD D: _D0 _D1 _D2 _D3 _D4 _D5 _D6 _D7 _D8 _D9 _DA _DB
_DC _DD _DE _DF^FS
^FO50,460^A1,18,16^FH^FD E: _E0 _E1 _E2 _E3 _E4 _E5 _E6 _E7 _E8 _E9 _EA _EB
_EC _ED _EE _EF^FS
^FO50,490^A1,18,16^FH^FD F: _F0 _F1 _F2 _F3 _F4 _F5 _F6 _F7 _F8 _F9 _FA _FB
_FC _FD _FE _FF^FS
^XZ

^XA
^CI5
^FO50, 10^A0,32,25^FDCodepage ID-5^FS
^FO50, 50^A1,18,16^FDHEX 0 1 2 3 4 5 6 7 8 9 A B C D E F^FS
^FO50, 70^A1,18,16^FD  --------------------------------^FS
^FO50,100^A1,18,16^FH^FD 2: _20 _21 _22 _23 _24 _25 _26 _27 _28 _29 _2A _2B
_2C _2D _2E _2F^FS
^FO50,130^A1,18,16^FH^FD 3: _30 _31 _32 _33 _34 _35 _36 _37 _38 _39 _3A _3B
_3C _3D _3E _3F^FS
^FO50,160^A1,18,16^FH^FD 4: _40 _41 _42 _43 _44 _45 _46 _47 _48 _49 _4A _4B
_4C _4D _4E _4F^FS
^FO50,190^A1,18,16^FH^FD 5: _50 _51 _52 _53 _54 _55 _56 _57 _58 _59 _5A _5B
_5C _5D _5E _5F^FS
^FO50,220^A1,18,16^FH^FD 6: _60 _61 _62 _63 _64 _65 _66 _67 _68 _69 _6A _6B
_6C _6D _6E _6F^FS
^FO50,250^A1,18,16^FH^FD 7: _70 _71 _72 _73 _74 _75 _76 _77 _78 _79 _7A _7B
_7C _7D _7E _7F^FS
^FO50,280^A1,18,16^FH^FD 8: _80 _81 _82 _83 _84 _85 _86 _87 _88 _89 _8A _8B
_8C _8D _8E _8F^FS
^FO50,310^A1,18,16^FH^FD 9: _90 _91 _92 _93 _94 _95 _96 _97 _98 _99 _9A _9B
_9C _9D _9E _9F^FS
^FO50,340^A1,18,16^FH^FD A: _A0 _A1 _A2 _A3 _A4 _A5 _A6 _A7 _A8 _A9 _AA _AB
_AC _AD _AE _AF^FS
```

```
^FO50,370^A1,18,16^FH^FD B: _B0 _B1 _B2 _B3 _B4 _B5 _B6 _B7 _B8 _B9 _BA _BB
_BC _BD _BE _BF^FS
^FO50,400^A1,18,16^FH^FD C: _C0 _C1 _C2 _C3 _C4 _C5 _C6 _C7 _C8 _C9 _CA _CB
_CC _CD _CE _CF^FS
^FO50,430^A1,18,16^FH^FD D: _D0 _D1 _D2 _D3 _D4 _D5 _D6 _D7 _D8 _D9 _DA _DB
_DC _DD _DE _DF^FS
^FO50,460^A1,18,16^FH^FD E: _E0 _E1 _E2 _E3 _E4 _E5 _E6 _E7 _E8 _E9 _EA _EB
_EC _ED _EE _EF^FS
^FO50,490^A1,18,16^FH^FD F: _F0 _F1 _F2 _F3 _F4 _F5 _F6 _F7 _F8 _F9 _FA _FB
_FC _FD _FE _FF^FS
^XZ

^XA
^CI6
^FO50, 10^A0,32,25^FDCodepage ID-6^FS
^FO50, 50^A1,18,16^FDHEX 0 1 2 3 4 5 6 7 8 9 A B C D E F^FS
^FO50, 70^A1,18,16^FD  --------------------------------^FS
^FO50,100^A1,18,16^FH^FD 2: _20 _21 _22 _23 _24 _25 _26 _27 _28 _29 _2A _2B
_2C _2D _2E _2F^FS
^FO50,130^A1,18,16^FH^FD 3: _30 _31 _32 _33 _34 _35 _36 _37 _38 _39 _3A _3B
_3C _3D _3E _3F^FS
^FO50,160^A1,18,16^FH^FD 4: _40 _41 _42 _43 _44 _45 _46 _47 _48 _49 _4A _4B
_4C _4D _4E _4F^FS
^FO50,190^A1,18,16^FH^FD 5: _50 _51 _52 _53 _54 _55 _56 _57 _58 _59 _5A _5B
_5C _5D _5E _5F^FS
^FO50,220^A1,18,16^FH^FD 6: _60 _61 _62 _63 _64 _65 _66 _67 _68 _69 _6A _6B
_6C _6D _6E _6F^FS
^FO50,250^A1,18,16^FH^FD 7: _70 _71 _72 _73 _74 _75 _76 _77 _78 _79 _7A _7B
_7C _7D _7E _7F^FS
^FO50,280^A1,18,16^FH^FD 8: _80 _81 _82 _83 _84 _85 _86 _87 _88 _89 _8A _8B
_8C _8D _8E _8F^FS
^FO50,310^A1,18,16^FH^FD 9: _90 _91 _92 _93 _94 _95 _96 _97 _98 _99 _9A _9B
_9C _9D _9E _9F^FS
^FO50,340^A1,18,16^FH^FD A: _A0 _A1 _A2 _A3 _A4 _A5 _A6 _A7 _A8 _A9 _AA _AB
_AC _AD _AE _AF^FS
^FO50,370^A1,18,16^FH^FD B: _B0 _B1 _B2 _B3 _B4 _B5 _B6 _B7 _B8 _B9 _BA _BB
_BC _BD _BE _BF^FS
^FO50,400^A1,18,16^FH^FD C: _C0 _C1 _C2 _C3 _C4 _C5 _C6 _C7 _C8 _C9 _CA _CB
_CC _CD _CE _CF^FS
^FO50,430^A1,18,16^FH^FD D: _D0 _D1 _D2 _D3 _D4 _D5 _D6 _D7 _D8 _D9 _DA _DB
_DC _DD _DE _DF^FS
^FO50,460^A1,18,16^FH^FD E: _E0 _E1 _E2 _E3 _E4 _E5 _E6 _E7 _E8 _E9 _EA _EB
_EC _ED _EE _EF^FS
^FO50,490^A1,18,16^FH^FD F: _F0 _F1 _F2 _F3 _F4 _F5 _F6 _F7 _F8 _F9 _FA _FB
_FC _FD _FE _FF^FS
```

```
^XZ

^XA
^CI7
^FO50, 10^A0,32,25^FDCodepage ID-7^FS
^FO50, 50^A1,18,16^FDHEX 0 1 2 3 4 5 6 7 8 9 A B C D E F^FS
^FO50, 70^A1,18,16^FD  --------------------------------^FS
^FO50,100^A1,18,16^FH^FD 2: _20 _21 _22 _23 _24 _25 _26 _27 _28 _29 _2A _2B
_2C _2D _2E _2F^FS
^FO50,130^A1,18,16^FH^FD 3: _30 _31 _32 _33 _34 _35 _36 _37 _38 _39 _3A _3B
_3C _3D _3E _3F^FS
^FO50,160^A1,18,16^FH^FD 4: _40 _41 _42 _43 _44 _45 _46 _47 _48 _49 _4A _4B
_4C _4D _4E _4F^FS
^FO50,190^A1,18,16^FH^FD 5: _50 _51 _52 _53 _54 _55 _56 _57 _58 _59 _5A _5B
_5C _5D _5E _5F^FS
^FO50,220^A1,18,16^FH^FD 6: _60 _61 _62 _63 _64 _65 _66 _67 _68 _69 _6A _6B
_6C _6D _6E _6F^FS
^FO50,250^A1,18,16^FH^FD 7: _70 _71 _72 _73 _74 _75 _76 _77 _78 _79 _7A _7B
_7C _7D _7E _7F^FS
^FO50,280^A1,18,16^FH^FD 8: _80 _81 _82 _83 _84 _85 _86 _87 _88 _89 _8A _8B
_8C _8D _8E _8F^FS
^FO50,310^A1,18,16^FH^FD 9: _90 _91 _92 _93 _94 _95 _96 _97 _98 _99 _9A _9B
_9C _9D _9E _9F^FS
^FO50,340^A1,18,16^FH^FD A: _A0 _A1 _A2 _A3 _A4 _A5 _A6 _A7 _A8 _A9 _AA _AB
_AC _AD _AE _AF^FS
^FO50,370^A1,18,16^FH^FD B: _B0 _B1 _B2 _B3 _B4 _B5 _B6 _B7 _B8 _B9 _BA _BB
_BC _BD _BE _BF^FS
^FO50,400^A1,18,16^FH^FD C: _C0 _C1 _C2 _C3 _C4 _C5 _C6 _C7 _C8 _C9 _CA _CB
_CC _CD _CE _CF^FS
^FO50,430^A1,18,16^FH^FD D: _D0 _D1 _D2 _D3 _D4 _D5 _D6 _D7 _D8 _D9 _DA _DB
_DC _DD _DE _DF^FS
^FO50,460^A1,18,16^FH^FD E: _E0 _E1 _E2 _E3 _E4 _E5 _E6 _E7 _E8 _E9 _EA _EB
_EC _ED _EE _EF^FS
^FO50,490^A1,18,16^FH^FD F: _F0 _F1 _F2 _F3 _F4 _F5 _F6 _F7 _F8 _F9 _FA _FB
_FC _FD _FE _FF^FS
^XZ

^XA
^CI8
^FO50, 10^A0,32,25^FDCodepage ID-8^FS
^FO50, 50^A1,18,16^FDHEX 0 1 2 3 4 5 6 7 8 9 A B C D E F^FS
^FO50, 70^A1,18,16^FD  --------------------------------^FS
^FO50,100^A1,18,16^FH^FD 2: _20 _21 _22 _23 _24 _25 _26 _27 _28 _29 _2A _2B
_2C _2D _2E _2F^FS
^FO50,130^A1,18,16^FH^FD 3: _30 _31 _32 _33 _34 _35 _36 _37 _38 _39 _3A _3B
```

```
_3C _3D _3E _3F^FS
^FO50,160^A1,18,16^FH^FD 4: _40 _41 _42 _43 _44 _45 _46 _47 _48 _49 _4A _4B
_4C _4D _4E _4F^FS
^FO50,190^A1,18,16^FH^FD 5: _50 _51 _52 _53 _54 _55 _56 _57 _58 _59 _5A _5B
_5C _5D _5E _5F^FS
^FO50,220^A1,18,16^FH^FD 6: _60 _61 _62 _63 _64 _65 _66 _67 _68 _69 _6A _6B
_6C _6D _6E _6F^FS
^FO50,250^A1,18,16^FH^FD 7: _70 _71 _72 _73 _74 _75 _76 _77 _78 _79 _7A _7B
_7C _7D _7E _7F^FS
^FO50,280^A1,18,16^FH^FD 8: _80 _81 _82 _83 _84 _85 _86 _87 _88 _89 _8A _8B
_8C _8D _8E _8F^FS
^FO50,310^A1,18,16^FH^FD 9: _90 _91 _92 _93 _94 _95 _96 _97 _98 _99 _9A _9B
_9C _9D _9E _9F^FS
^FO50,340^A1,18,16^FH^FD A: _A0 _A1 _A2 _A3 _A4 _A5 _A6 _A7 _A8 _A9 _AA _AB
_AC _AD _AE _AF^FS
^FO50,370^A1,18,16^FH^FD B: _B0 _B1 _B2 _B3 _B4 _B5 _B6 _B7 _B8 _B9 _BA _BB
_BC _BD _BE _BF^FS
^FO50,400^A1,18,16^FH^FD C: _C0 _C1 _C2 _C3 _C4 _C5 _C6 _C7 _C8 _C9 _CA _CB
_CC _CD _CE _CF^FS
^FO50,430^A1,18,16^FH^FD D: _D0 _D1 _D2 _D3 _D4 _D5 _D6 _D7 _D8 _D9 _DA _DB
_DC _DD _DE _DF^FS
^FO50,460^A1,18,16^FH^FD E: _E0 _E1 _E2 _E3 _E4 _E5 _E6 _E7 _E8 _E9 _EA _EB
_EC _ED _EE _EF^FS
^FO50,490^A1,18,16^FH^FD F: _F0 _F1 _F2 _F3 _F4 _F5 _F6 _F7 _F8 _F9 _FA _FB
_FC _FD _FE _FF^FS
^XZ

^XA
^CI9
^FO50, 10^A0,32,25^FDCodepage ID-9^FS
^FO50, 50^A1,18,16^FDHEX 0 1 2 3 4 5 6 7 8 9 A B C D E F^FS
^FO50, 70^A1,18,16^FD  --------------------------------^FS
^FO50,100^A1,18,16^FH^FD 2: _20 _21 _22 _23 _24 _25 _26 _27 _28 _29 _2A _2B
_2C _2D _2E _2F^FS
^FO50,130^A1,18,16^FH^FD 3: _30 _31 _32 _33 _34 _35 _36 _37 _38 _39 _3A _3B
_3C _3D _3E _3F^FS
^FO50,160^A1,18,16^FH^FD 4: _40 _41 _42 _43 _44 _45 _46 _47 _48 _49 _4A _4B
_4C _4D _4E _4F^FS
^FO50,190^A1,18,16^FH^FD 5: _50 _51 _52 _53 _54 _55 _56 _57 _58 _59 _5A _5B
_5C _5D _5E _5F^FS
^FO50,220^A1,18,16^FH^FD 6: _60 _61 _62 _63 _64 _65 _66 _67 _68 _69 _6A _6B
_6C _6D _6E _6F^FS
^FO50,250^A1,18,16^FH^FD 7: _70 _71 _72 _73 _74 _75 _76 _77 _78 _79 _7A _7B
_7C _7D _7E _7F^FS
^FO50,280^A1,18,16^FH^FD 8: _80 _81 _82 _83 _84 _85 _86 _87 _88 _89 _8A _8B
```

```
_8C _8D _8E _8F^FS
^FO50,310^A1,18,16^FH^FD 9: _90 _91 _92 _93 _94 _95 _96 _97 _98 _99 _9A _9B
_9C _9D _9E _9F^FS
^FO50,340^A1,18,16^FH^FD A: _A0 _A1 _A2 _A3 _A4 _A5 _A6 _A7 _A8 _A9 _AA _AB
_AC _AD _AE _AF^FS
^FO50,370^A1,18,16^FH^FD B: _B0 _B1 _B2 _B3 _B4 _B5 _B6 _B7 _B8 _B9 _BA _BB
_BC _BD _BE _BF^FS
^FO50,400^A1,18,16^FH^FD C: _C0 _C1 _C2 _C3 _C4 _C5 _C6 _C7 _C8 _C9 _CA _CB
_CC _CD _CE _CF^FS
^FO50,430^A1,18,16^FH^FD D: _D0 _D1 _D2 _D3 _D4 _D5 _D6 _D7 _D8 _D9 _DA _DB
_DC _DD _DE _DF^FS
^FO50,460^A1,18,16^FH^FD E: _E0 _E1 _E2 _E3 _E4 _E5 _E6 _E7 _E8 _E9 _EA _EB
_EC _ED _EE _EF^FS
^FO50,490^A1,18,16^FH^FD F: _F0 _F1 _F2 _F3 _F4 _F5 _F6 _F7 _F8 _F9 _FA _FB
_FC _FD _FE _FF^FS
^XZ

^XA
^CI10
^FO50, 10^A0,32,25^FDCodepage ID-10^FS
^FO50, 50^A1,18,16^FDHEX 0 1 2 3 4 5 6 7 8 9 A B C D E F^FS
^FO50, 70^A1,18,16^FD  --------------------------------^FS
^FO50,100^A1,18,16^FH^FD 2: _20 _21 _22 _23 _24 _25 _26 _27 _28 _29 _2A _2B
_2C _2D _2E _2F^FS
^FO50,130^A1,18,16^FH^FD 3: _30 _31 _32 _33 _34 _35 _36 _37 _38 _39 _3A _3B
_3C _3D _3E _3F^FS
^FO50,160^A1,18,16^FH^FD 4: _40 _41 _42 _43 _44 _45 _46 _47 _48 _49 _4A _4B
_4C _4D _4E _4F^FS
^FO50,190^A1,18,16^FH^FD 5: _50 _51 _52 _53 _54 _55 _56 _57 _58 _59 _5A _5B
_5C _5D _5E _5F^FS
^FO50,220^A1,18,16^FH^FD 6: _60 _61 _62 _63 _64 _65 _66 _67 _68 _69 _6A _6B
_6C _6D _6E _6F^FS
^FO50,250^A1,18,16^FH^FD 7: _70 _71 _72 _73 _74 _75 _76 _77 _78 _79 _7A _7B
_7C _7D _7E _7F^FS
^FO50,280^A1,18,16^FH^FD 8: _80 _81 _82 _83 _84 _85 _86 _87 _88 _89 _8A _8B
_8C _8D _8E _8F^FS
^FO50,310^A1,18,16^FH^FD 9: _90 _91 _92 _93 _94 _95 _96 _97 _98 _99 _9A _9B
_9C _9D _9E _9F^FS
^FO50,340^A1,18,16^FH^FD A: _A0 _A1 _A2 _A3 _A4 _A5 _A6 _A7 _A8 _A9 _AA _AB
_AC _AD _AE _AF^FS
^FO50,370^A1,18,16^FH^FD B: _B0 _B1 _B2 _B3 _B4 _B5 _B6 _B7 _B8 _B9 _BA _BB
_BC _BD _BE _BF^FS
^FO50,400^A1,18,16^FH^FD C: _C0 _C1 _C2 _C3 _C4 _C5 _C6 _C7 _C8 _C9 _CA _CB
_CC _CD _CE _CF^FS
^FO50,430^A1,18,16^FH^FD D: _D0 _D1 _D2 _D3 _D4 _D5 _D6 _D7 _D8 _D9 _DA _DB
```

```
_DC _DD _DE _DF^FS
^FO50,460^A1,18,16^FH^FD E: _E0 _E1 _E2 _E3 _E4 _E5 _E6 _E7 _E8 _E9 _EA _EB
_EC _ED _EE _EF^FS
^FO50,490^A1,18,16^FH^FD F: _F0 _F1 _F2 _F3 _F4 _F5 _F6 _F7 _F8 _F9 _FA _FB
_FC _FD _FE _FF^FS
^XZ

^XA
^CI11
^FO50, 10^A0,32,25^FDCodepage ID-11^FS
^FO50, 50^A1,18,16^FDHEX 0 1 2 3 4 5 6 7 8 9 A B C D E F^FS
^FO50, 70^A1,18,16^FD  ---------------------------------^FS
^FO50,100^A1,18,16^FH^FD 2: _20 _21 _22 _23 _24 _25 _26 _27 _28 _29 _2A _2B
_2C _2D _2E _2F^FS
^FO50,130^A1,18,16^FH^FD 3: _30 _31 _32 _33 _34 _35 _36 _37 _38 _39 _3A _3B
_3C _3D _3E _3F^FS
^FO50,160^A1,18,16^FH^FD 4: _40 _41 _42 _43 _44 _45 _46 _47 _48 _49 _4A _4B
_4C _4D _4E _4F^FS
^FO50,190^A1,18,16^FH^FD 5: _50 _51 _52 _53 _54 _55 _56 _57 _58 _59 _5A _5B
_5C _5D _5E _5F^FS
^FO50,220^A1,18,16^FH^FD 6: _60 _61 _62 _63 _64 _65 _66 _67 _68 _69 _6A _6B
_6C _6D _6E _6F^FS
^FO50,250^A1,18,16^FH^FD 7: _70 _71 _72 _73 _74 _75 _76 _77 _78 _79 _7A _7B
_7C _7D _7E _7F^FS
^FO50,280^A1,18,16^FH^FD 8: _80 _81 _82 _83 _84 _85 _86 _87 _88 _89 _8A _8B
_8C _8D _8E _8F^FS
^FO50,310^A1,18,16^FH^FD 9: _90 _91 _92 _93 _94 _95 _96 _97 _98 _99 _9A _9B
_9C _9D _9E _9F^FS
^FO50,340^A1,18,16^FH^FD A: _A0 _A1 _A2 _A3 _A4 _A5 _A6 _A7 _A8 _A9 _AA _AB
_AC _AD _AE _AF^FS
^FO50,370^A1,18,16^FH^FD B: _B0 _B1 _B2 _B3 _B4 _B5 _B6 _B7 _B8 _B9 _BA _BB
_BC _BD _BE _BF^FS
^FO50,400^A1,18,16^FH^FD C: _C0 _C1 _C2 _C3 _C4 _C5 _C6 _C7 _C8 _C9 _CA _CB
_CC _CD _CE _CF^FS
^FO50,430^A1,18,16^FH^FD D: _D0 _D1 _D2 _D3 _D4 _D5 _D6 _D7 _D8 _D9 _DA _DB
_DC _DD _DE _DF^FS
^FO50,460^A1,18,16^FH^FD E: _E0 _E1 _E2 _E3 _E4 _E5 _E6 _E7 _E8 _E9 _EA _EB
_EC _ED _EE _EF^FS
^FO50,490^A1,18,16^FH^FD F: _F0 _F1 _F2 _F3 _F4 _F5 _F6 _F7 _F8 _F9 _FA _FB
_FC _FD _FE _FF^FS
^XZ

^XA
^CI12
^FO50, 10^A0,32,25^FDCodepage ID-12^FS
```

```
^FO50, 50^A1,18,16^FDHEX 0 1 2 3 4 5 6 7 8 9 A B C D E F^FS
^FO50, 70^A1,18,16^FD  --------------------------------^FS
^FO50,100^A1,18,16^FH^FD 2: _20 _21 _22 _23 _24 _25 _26 _27 _28 _29 _2A _2B
_2C _2D _2E _2F^FS
^FO50,130^A1,18,16^FH^FD 3: _30 _31 _32 _33 _34 _35 _36 _37 _38 _39 _3A _3B
_3C _3D _3E _3F^FS
^FO50,160^A1,18,16^FH^FD 4: _40 _41 _42 _43 _44 _45 _46 _47 _48 _49 _4A _4B
_4C _4D _4E _4F^FS
^FO50,190^A1,18,16^FH^FD 5: _50 _51 _52 _53 _54 _55 _56 _57 _58 _59 _5A _5B
_5C _5D _5E _5F^FS
^FO50,220^A1,18,16^FH^FD 6: _60 _61 _62 _63 _64 _65 _66 _67 _68 _69 _6A _6B
_6C _6D _6E _6F^FS
^FO50,250^A1,18,16^FH^FD 7: _70 _71 _72 _73 _74 _75 _76 _77 _78 _79 _7A _7B
_7C _7D _7E _7F^FS
^FO50,280^A1,18,16^FH^FD 8: _80 _81 _82 _83 _84 _85 _86 _87 _88 _89 _8A _8B
_8C _8D _8E _8F^FS
^FO50,310^A1,18,16^FH^FD 9: _90 _91 _92 _93 _94 _95 _96 _97 _98 _99 _9A _9B
_9C _9D _9E _9F^FS
^FO50,340^A1,18,16^FH^FD A: _A0 _A1 _A2 _A3 _A4 _A5 _A6 _A7 _A8 _A9 _AA _AB
_AC _AD _AE _AF^FS
^FO50,370^A1,18,16^FH^FD B: _B0 _B1 _B2 _B3 _B4 _B5 _B6 _B7 _B8 _B9 _BA _BB
_BC _BD _BE _BF^FS
^FO50,400^A1,18,16^FH^FD C: _C0 _C1 _C2 _C3 _C4 _C5 _C6 _C7 _C8 _C9 _CA _CB
_CC _CD _CE _CF^FS
^FO50,430^A1,18,16^FH^FD D: _D0 _D1 _D2 _D3 _D4 _D5 _D6 _D7 _D8 _D9 _DA _DB
_DC _DD _DE _DF^FS
^FO50,460^A1,18,16^FH^FD E: _E0 _E1 _E2 _E3 _E4 _E5 _E6 _E7 _E8 _E9 _EA _EB
_EC _ED _EE _EF^FS
^FO50,490^A1,18,16^FH^FD F: _F0 _F1 _F2 _F3 _F4 _F5 _F6 _F7 _F8 _F9 _FA _FB
_FC _FD _FE _FF^FS
^XZ

^XA
^CI13
^FO50, 10^A0,32,25^FDCodepage ID-13^FS
^FO50, 50^A1,18,16^FDHEX 0 1 2 3 4 5 6 7 8 9 A B C D E F^FS
^FO50, 70^A1,18,16^FD  --------------------------------^FS
^FO50,100^A1,18,16^FH^FD 2: _20 _21 _22 _23 _24 _25 _26 _27 _28 _29 _2A _2B
_2C _2D _2E _2F^FS
^FO50,130^A1,18,16^FH^FD 3: _30 _31 _32 _33 _34 _35 _36 _37 _38 _39 _3A _3B
_3C _3D _3E _3F^FS
^FO50,160^A1,18,16^FH^FD 4: _40 _41 _42 _43 _44 _45 _46 _47 _48 _49 _4A _4B
_4C _4D _4E _4F^FS
^FO50,190^A1,18,16^FH^FD 5: _50 _51 _52 _53 _54 _55 _56 _57 _58 _59 _5A _5B
_5C _5D _5E _5F^FS
```

```
^FO50,220^A1,18,16^FH^FD 6: _60 _61 _62 _63 _64 _65 _66 _67 _68 _69 _6A _6B
_6C _6D _6E _6F^FS
^FO50,250^A1,18,16^FH^FD 7: _70 _71 _72 _73 _74 _75 _76 _77 _78 _79 _7A _7B
_7C _7D _7E _7F^FS
^FO50,280^A1,18,16^FH^FD 8: _80 _81 _82 _83 _84 _85 _86 _87 _88 _89 _8A _8B
_8C _8D _8E _8F^FS
^FO50,310^A1,18,16^FH^FD 9: _90 _91 _92 _93 _94 _95 _96 _97 _98 _99 _9A _9B
_9C _9D _9E _9F^FS
^FO50,340^A1,18,16^FH^FD A: _A0 _A1 _A2 _A3 _A4 _A5 _A6 _A7 _A8 _A9 _AA _AB
_AC _AD _AE _AF^FS
^FO50,370^A1,18,16^FH^FD B: _B0 _B1 _B2 _B3 _B4 _B5 _B6 _B7 _B8 _B9 _BA _BB
_BC _BD _BE _BF^FS
^FO50,400^A1,18,16^FH^FD C: _C0 _C1 _C2 _C3 _C4 _C5 _C6 _C7 _C8 _C9 _CA _CB
_CC _CD _CE _CF^FS
^FO50,430^A1,18,16^FH^FD D: _D0 _D1 _D2 _D3 _D4 _D5 _D6 _D7 _D8 _D9 _DA _DB
_DC _DD _DE _DF^FS
^FO50,460^A1,18,16^FH^FD E: _E0 _E1 _E2 _E3 _E4 _E5 _E6 _E7 _E8 _E9 _EA _EB
_EC _ED _EE _EF^FS
^FO50,490^A1,18,16^FH^FD F: _F0 _F1 _F2 _F3 _F4 _F5 _F6 _F7 _F8 _F9 _FA _FB
_FC _FD _FE _FF^FS
^XZ

^XA
^CI27
^FO50, 10^A0,32,25^FDCodepage ID-27^FS
^FO50, 50^A1,18,16^FDHEX 0 1 2 3 4 5 6 7 8 9 A B C D E F^FS
^FO50, 70^A1,18,16^FD  --------------------------------^FS
^FO50,100^A1,18,16^FH^FD 2: _20 _21 _22 _23 _24 _25 _26 _27 _28 _29 _2A _2B
_2C _2D _2E _2F^FS
^FO50,130^A1,18,16^FH^FD 3: _30 _31 _32 _33 _34 _35 _36 _37 _38 _39 _3A _3B
_3C _3D _3E _3F^FS
^FO50,160^A1,18,16^FH^FD 4: _40 _41 _42 _43 _44 _45 _46 _47 _48 _49 _4A _4B
_4C _4D _4E _4F^FS
^FO50,190^A1,18,16^FH^FD 5: _50 _51 _52 _53 _54 _55 _56 _57 _58 _59 _5A _5B
_5C _5D _5E _5F^FS
^FO50,220^A1,18,16^FH^FD 6: _60 _61 _62 _63 _64 _65 _66 _67 _68 _69 _6A _6B
_6C _6D _6E _6F^FS
^FO50,250^A1,18,16^FH^FD 7: _70 _71 _72 _73 _74 _75 _76 _77 _78 _79 _7A _7B
_7C _7D _7E _7F^FS
^FO50,280^A1,18,16^FH^FD 8: _80 _81 _82 _83 _84 _85 _86 _87 _88 _89 _8A _8B
_8C _8D _8E _8F^FS
^FO50,310^A1,18,16^FH^FD 9: _90 _91 _92 _93 _94 _95 _96 _97 _98 _99 _9A _9B
_9C _9D _9E _9F^FS
^FO50,340^A1,18,16^FH^FD A: _A0 _A1 _A2 _A3 _A4 _A5 _A6 _A7 _A8 _A9 _AA _AB
_AC _AD _AE _AF^FS
```

```
^FO50,370^A1,18,16^FH^FD B: _B0 _B1 _B2 _B3 _B4 _B5 _B6 _B7 _B8 _B9 _BA _BB
_BC _BD _BE _BF^FS
^FO50,400^A1,18,16^FH^FD C: _C0 _C1 _C2 _C3 _C4 _C5 _C6 _C7 _C8 _C9 _CA _CB
_CC _CD _CE _CF^FS
^FO50,430^A1,18,16^FH^FD D: _D0 _D1 _D2 _D3 _D4 _D5 _D6 _D7 _D8 _D9 _DA _DB
_DC _DD _DE _DF^FS
^FO50,460^A1,18,16^FH^FD E: _E0 _E1 _E2 _E3 _E4 _E5 _E6 _E7 _E8 _E9 _EA _EB
_EC _ED _EE _EF^FS
^FO50,490^A1,18,16^FH^FD F: _F0 _F1 _F2 _F3 _F4 _F5 _F6 _F7 _F8 _F9 _FA _FB
_FC _FD _FE _FF^FS
^XZ

^XA
^CI31
^FO50, 10^A0,32,25^FDCodepage ID-31^FS
^FO50, 50^A1,18,16^FDHEX 0 1 2 3 4 5 6 7 8 9 A B C D E F^FS
^FO50, 70^A1,18,16^FD  --------------------------------^FS
^FO50,100^A1,18,16^FH^FD 2: _20 _21 _22 _23 _24 _25 _26 _27 _28 _29 _2A _2B
_2C _2D _2E _2F^FS
^FO50,130^A1,18,16^FH^FD 3: _30 _31 _32 _33 _34 _35 _36 _37 _38 _39 _3A _3B
_3C _3D _3E _3F^FS
^FO50,160^A1,18,16^FH^FD 4: _40 _41 _42 _43 _44 _45 _46 _47 _48 _49 _4A _4B
_4C _4D _4E _4F^FS
^FO50,190^A1,18,16^FH^FD 5: _50 _51 _52 _53 _54 _55 _56 _57 _58 _59 _5A _5B
_5C _5D _5E _5F^FS
^FO50,220^A1,18,16^FH^FD 6: _60 _61 _62 _63 _64 _65 _66 _67 _68 _69 _6A _6B
_6C _6D _6E _6F^FS
^FO50,250^A1,18,16^FH^FD 7: _70 _71 _72 _73 _74 _75 _76 _77 _78 _79 _7A _7B
_7C _7D _7E _7F^FS
^FO50,280^A1,18,16^FH^FD 8: _80 _81 _82 _83 _84 _85 _86 _87 _88 _89 _8A _8B
_8C _8D _8E _8F^FS
^FO50,310^A1,18,16^FH^FD 9: _90 _91 _92 _93 _94 _95 _96 _97 _98 _99 _9A _9B
_9C _9D _9E _9F^FS
^FO50,340^A1,18,16^FH^FD A: _A0 _A1 _A2 _A3 _A4 _A5 _A6 _A7 _A8 _A9 _AA _AB
_AC _AD _AE _AF^FS
^FO50,370^A1,18,16^FH^FD B: _B0 _B1 _B2 _B3 _B4 _B5 _B6 _B7 _B8 _B9 _BA _BB
_BC _BD _BE _BF^FS
^FO50,400^A1,18,16^FH^FD C: _C0 _C1 _C2 _C3 _C4 _C5 _C6 _C7 _C8 _C9 _CA _CB
_CC _CD _CE _CF^FS
^FO50,430^A1,18,16^FH^FD D: _D0 _D1 _D2 _D3 _D4 _D5 _D6 _D7 _D8 _D9 _DA _DB
_DC _DD _DE _DF^FS
^FO50,460^A1,18,16^FH^FD E: _E0 _E1 _E2 _E3 _E4 _E5 _E6 _E7 _E8 _E9 _EA _EB
_EC _ED _EE _EF^FS
^FO50,490^A1,18,16^FH^FD F: _F0 _F1 _F2 _F3 _F4 _F5 _F6 _F7 _F8 _F9 _FA _FB
_FC _FD _FE _FF^FS
```

```
^XZ

^XA
^CI33
^FO50, 10^A0,32,25^FDCodepage ID-33^FS
^FO50, 50^A1,18,16^FDHEX 0 1 2 3 4 5 6 7 8 9 A B C D E F^FS
^FO50, 70^A1,18,16^FD  --------------------------------^FS
^FO50,100^A1,18,16^FH^FD 2: _20 _21 _22 _23 _24 _25 _26 _27 _28 _29 _2A _2B
_2C _2D _2E _2F^FS
^FO50,130^A1,18,16^FH^FD 3: _30 _31 _32 _33 _34 _35 _36 _37 _38 _39 _3A _3B
_3C _3D _3E _3F^FS
^FO50,160^A1,18,16^FH^FD 4: _40 _41 _42 _43 _44 _45 _46 _47 _48 _49 _4A _4B
_4C _4D _4E _4F^FS
^FO50,190^A1,18,16^FH^FD 5: _50 _51 _52 _53 _54 _55 _56 _57 _58 _59 _5A _5B
_5C _5D _5E _5F^FS
^FO50,220^A1,18,16^FH^FD 6: _60 _61 _62 _63 _64 _65 _66 _67 _68 _69 _6A _6B
_6C _6D _6E _6F^FS
^FO50,250^A1,18,16^FH^FD 7: _70 _71 _72 _73 _74 _75 _76 _77 _78 _79 _7A _7B
_7C _7D _7E _7F^FS
^FO50,280^A1,18,16^FH^FD 8: _80 _81 _82 _83 _84 _85 _86 _87 _88 _89 _8A _8B
_8C _8D _8E _8F^FS
^FO50,310^A1,18,16^FH^FD 9: _90 _91 _92 _93 _94 _95 _96 _97 _98 _99 _9A _9B
_9C _9D _9E _9F^FS
^FO50,340^A1,18,16^FH^FD A: _A0 _A1 _A2 _A3 _A4 _A5 _A6 _A7 _A8 _A9 _AA _AB
_AC _AD _AE _AF^FS
^FO50,370^A1,18,16^FH^FD B: _B0 _B1 _B2 _B3 _B4 _B5 _B6 _B7 _B8 _B9 _BA _BB
_BC _BD _BE _BF^FS
^FO50,400^A1,18,16^FH^FD C: _C0 _C1 _C2 _C3 _C4 _C5 _C6 _C7 _C8 _C9 _CA _CB
_CC _CD _CE _CF^FS
^FO50,430^A1,18,16^FH^FD D: _D0 _D1 _D2 _D3 _D4 _D5 _D6 _D7 _D8 _D9 _DA _DB
_DC _DD _DE _DF^FS
^FO50,460^A1,18,16^FH^FD E: _E0 _E1 _E2 _E3 _E4 _E5 _E6 _E7 _E8 _E9 _EA _EB
_EC _ED _EE _EF^FS
^FO50,490^A1,18,16^FH^FD F: _F0 _F1 _F2 _F3 _F4 _F5 _F6 _F7 _F8 _F9 _FA _FB
_FC _FD _FE _FF^FS
^XZ

^XA
^CI34
^FO50, 10^A0,32,25^FDCodepage ID-34^FS
^FO50, 50^A1,18,16^FDHEX 0 1 2 3 4 5 6 7 8 9 A B C D E F^FS
^FO50, 70^A1,18,16^FD  --------------------------------^FS
^FO50,100^A1,18,16^FH^FD 2: _20 _21 _22 _23 _24 _25 _26 _27 _28 _29 _2A _2B
_2C _2D _2E _2F^FS
^FO50,130^A1,18,16^FH^FD 3: _30 _31 _32 _33 _34 _35 _36 _37 _38 _39 _3A _3B
```

```
_3C _3D _3E _3F^FS
^FO50,160^A1,18,16^FH^FD 4: _40 _41 _42 _43 _44 _45 _46 _47 _48 _49 _4A _4B
_4C _4D _4E _4F^FS
^FO50,190^A1,18,16^FH^FD 5: _50 _51 _52 _53 _54 _55 _56 _57 _58 _59 _5A _5B
_5C _5D _5E _5F^FS
^FO50,220^A1,18,16^FH^FD 6: _60 _61 _62 _63 _64 _65 _66 _67 _68 _69 _6A _6B
_6C _6D _6E _6F^FS
^FO50,250^A1,18,16^FH^FD 7: _70 _71 _72 _73 _74 _75 _76 _77 _78 _79 _7A _7B
_7C _7D _7E _7F^FS
^FO50,280^A1,18,16^FH^FD 8: _80 _81 _82 _83 _84 _85 _86 _87 _88 _89 _8A _8B
_8C _8D _8E _8F^FS
^FO50,310^A1,18,16^FH^FD 9: _90 _91 _92 _93 _94 _95 _96 _97 _98 _99 _9A _9B
_9C _9D _9E _9F^FS
^FO50,340^A1,18,16^FH^FD A: _A0 _A1 _A2 _A3 _A4 _A5 _A6 _A7 _A8 _A9 _AA _AB
_AC _AD _AE _AF^FS
^FO50,370^A1,18,16^FH^FD B: _B0 _B1 _B2 _B3 _B4 _B5 _B6 _B7 _B8 _B9 _BA _BB
_BC _BD _BE _BF^FS
^FO50,400^A1,18,16^FH^FD C: _C0 _C1 _C2 _C3 _C4 _C5 _C6 _C7 _C8 _C9 _CA _CB
_CC _CD _CE _CF^FS
^FO50,430^A1,18,16^FH^FD D: _D0 _D1 _D2 _D3 _D4 _D5 _D6 _D7 _D8 _D9 _DA _DB
_DC _DD _DE _DF^FS
^FO50,460^A1,18,16^FH^FD E: _E0 _E1 _E2 _E3 _E4 _E5 _E6 _E7 _E8 _E9 _EA _EB
_EC _ED _EE _EF^FS
^FO50,490^A1,18,16^FH^FD F: _F0 _F1 _F2 _F3 _F4 _F5 _F6 _F7 _F8 _F9 _FA _FB
_FC _FD _FE _FF^FS
^XZ

^XA
^CI35
^FO50, 10^A0,32,25^FDCodepage ID-35^FS
^FO50, 50^A1,18,16^FDHEX 0 1 2 3 4 5 6 7 8 9 A B C D E F^FS
^FO50, 70^A1,18,16^FD  --------------------------------^FS
^FO50,100^A1,18,16^FH^FD 2: _20 _21 _22 _23 _24 _25 _26 _27 _28 _29 _2A _2B
_2C _2D _2E _2F^FS
^FO50,130^A1,18,16^FH^FD 3: _30 _31 _32 _33 _34 _35 _36 _37 _38 _39 _3A _3B
_3C _3D _3E _3F^FS
^FO50,160^A1,18,16^FH^FD 4: _40 _41 _42 _43 _44 _45 _46 _47 _48 _49 _4A _4B
_4C _4D _4E _4F^FS
^FO50,190^A1,18,16^FH^FD 5: _50 _51 _52 _53 _54 _55 _56 _57 _58 _59 _5A _5B
_5C _5D _5E _5F^FS
^FO50,220^A1,18,16^FH^FD 6: _60 _61 _62 _63 _64 _65 _66 _67 _68 _69 _6A _6B
_6C _6D _6E _6F^FS
^FO50,250^A1,18,16^FH^FD 7: _70 _71 _72 _73 _74 _75 _76 _77 _78 _79 _7A _7B
_7C _7D _7E _7F^FS
^FO50,280^A1,18,16^FH^FD 8: _80 _81 _82 _83 _84 _85 _86 _87 _88 _89 _8A _8B
```

```
_8C _8D _8E _8F^FS
^FO50,310^A1,18,16^FH^FD 9: _90 _91 _92 _93 _94 _95 _96 _97 _98 _99 _9A _9B
_9C _9D _9E _9F^FS
^FO50,340^A1,18,16^FH^FD A: _A0 _A1 _A2 _A3 _A4 _A5 _A6 _A7 _A8 _A9 _AA _AB
_AC _AD _AE _AF^FS
^FO50,370^A1,18,16^FH^FD B: _B0 _B1 _B2 _B3 _B4 _B5 _B6 _B7 _B8 _B9 _BA _BB
_BC _BD _BE _BF^FS
^FO50,400^A1,18,16^FH^FD C: _C0 _C1 _C2 _C3 _C4 _C5 _C6 _C7 _C8 _C9 _CA _CB
_CC _CD _CE _CF^FS
^FO50,430^A1,18,16^FH^FD D: _D0 _D1 _D2 _D3 _D4 _D5 _D6 _D7 _D8 _D9 _DA _DB
_DC _DD _DE _DF^FS
^FO50,460^A1,18,16^FH^FD E: _E0 _E1 _E2 _E3 _E4 _E5 _E6 _E7 _E8 _E9 _EA _EB
_EC _ED _EE _EF^FS
^FO50,490^A1,18,16^FH^FD F: _F0 _F1 _F2 _F3 _F4 _F5 _F6 _F7 _F8 _F9 _FA _FB
_FC _FD _FE _FF^FS
^XZ

^XA
^CI36
^FO50, 10^A0,32,25^FDCodepage ID-36^FS
^FO50, 50^A1,18,16^FDHEX 0 1 2 3 4 5 6 7 8 9 A B C D E F^FS
^FO50, 70^A1,18,16^FD  --------------------------------^FS
^FO50,100^A1,18,16^FH^FD 2: _20 _21 _22 _23 _24 _25 _26 _27 _28 _29 _2A _2B
_2C _2D _2E _2F^FS
^FO50,130^A1,18,16^FH^FD 3: _30 _31 _32 _33 _34 _35 _36 _37 _38 _39 _3A _3B
_3C _3D _3E _3F^FS
^FO50,160^A1,18,16^FH^FD 4: _40 _41 _42 _43 _44 _45 _46 _47 _48 _49 _4A _4B
_4C _4D _4E _4F^FS
^FO50,190^A1,18,16^FH^FD 5: _50 _51 _52 _53 _54 _55 _56 _57 _58 _59 _5A _5B
_5C _5D _5E _5F^FS
^FO50,220^A1,18,16^FH^FD 6: _60 _61 _62 _63 _64 _65 _66 _67 _68 _69 _6A _6B
_6C _6D _6E _6F^FS
^FO50,250^A1,18,16^FH^FD 7: _70 _71 _72 _73 _74 _75 _76 _77 _78 _79 _7A _7B
_7C _7D _7E _7F^FS
^FO50,280^A1,18,16^FH^FD 8: _80 _81 _82 _83 _84 _85 _86 _87 _88 _89 _8A _8B
_8C _8D _8E _8F^FS
^FO50,310^A1,18,16^FH^FD 9: _90 _91 _92 _93 _94 _95 _96 _97 _98 _99 _9A _9B
_9C _9D _9E _9F^FS
^FO50,340^A1,18,16^FH^FD A: _A0 _A1 _A2 _A3 _A4 _A5 _A6 _A7 _A8 _A9 _AA _AB
_AC _AD _AE _AF^FS
^FO50,370^A1,18,16^FH^FD B: _B0 _B1 _B2 _B3 _B4 _B5 _B6 _B7 _B8 _B9 _BA _BB
_BC _BD _BE _BF^FS
^FO50,400^A1,18,16^FH^FD C: _C0 _C1 _C2 _C3 _C4 _C5 _C6 _C7 _C8 _C9 _CA _CB
_CC _CD _CE _CF^FS
^FO50,430^A1,18,16^FH^FD D: _D0 _D1 _D2 _D3 _D4 _D5 _D6 _D7 _D8 _D9 _DA _DB
```

```
_DC _DD _DE _DF^FS
^FO50,460^A1,18,16^FH^FD E: _E0 _E1 _E2 _E3 _E4 _E5 _E6 _E7 _E8 _E9 _EA _EB
_EC _ED _EE _EF^FS
^FO50,490^A1,18,16^FH^FD F: _F0 _F1 _F2 _F3 _F4 _F5 _F6 _F7 _F8 _F9 _FA _FB
_FC _FD _FE _FF^FS
^XZ
```

CP850 Test

```
^XA
^PW800
^LL100
^CI13
^FO0,0^AAN,9,5^FD€岂儀庢噲堬媽崕廧 FS
^FO0,9^AAN,9,5^FD 悜搌敃柭楎殯湞灂^FS
^FO0,18^AAN,9,5^FD 牎iiiぅHi砐槼  ^FS
^FO0,27^AAN,9,5^FD 氨渤吹斗腹夯冀宄^FS
^FO0,36^AAN,9,5^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,45^AAN,9,5^FD 醒矣哉肿到谯荏捱^FS
^FO0,54^AAN,9,5^FD 噌忏溴骁栝觌祉铒^FS
^FO0,63^AAN,9,5^FD 瘃蝮趱鲼       ?^FS
^XZ

^XA
^LL100
^CI13
^FO0,0^ABN,11,7^FD€岂儀庢噲堬媽崕廧 FS
^FO0,11^ABN,11,7^FD 悜搌敃柭楎殯湞灂^FS
^FO0,22^ABN,11,7^FD 牎iiiぅHi砐槼  ^FS
^FO0,33^ABN,11,7^FD 氨渤吹斗腹夯冀宄^FS
^FO0,44^ABN,11,7^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,55^ABN,11,7^FD 醒矣哉肿到谯荏捱^FS
^FO0,66^ABN,11,7^FD 噌忏溴骁栝觌祉铒^FS
^FO0,77^ABN,11,7^FD 瘃蝮趱鲼       ?^FS
^XZ


^XA
^LL170
^CI13
^FO0,0^ACN,18,10^FD€岂儀庢噲堬媽崕廧 FS
^FO0,18^ACN,18,10^FD 悜搌敃柭楎殯湞灂^FS
^FO0,36^ACN,18,10^FD 牎iiiぅHi砐槼  ^FS
^FO0,54^ACN,18,10^FD 氨渤吹斗腹夯冀宄^FS
^FO0,72^ACN,18,10^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,90^ACN,18,10^FD 醒矣哉肿到谯荏捱^FS
^FO0,108^ACN,18,10^FD 噌忏溴骁栝觌祉铒^FS
^FO0,126^ACN,18,10^FD 瘃蝮趱鲼       ?^FS
^XZ

^XA
```

```
^LL170
^CI13
^FO0,0^ADN,18,10^FD€岂儎序噲埍媽崕廜 FS
^FO0,18^ADN,18,10^FD 悜捬敃枟橇殯湞濶^FS
^FO0,36^ADN,18,10^FD 牕iiぅHī综槩  ^FS
^FO0,54^ADN,18,10^FD 氦渤吹斗腹夯冀究^FS
^FO0,72^ADN,18,10^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,90^ADN,18,10^FD 醒矣哉肿到谯茌捱^FS
^FO0,108^ADN,18,10^FD 噌忏溴骁栝觌祉铒^FS
^FO0,126^ADN,18,10^FD 瘃蝮趑鲼      ?^FS
^XZ

^XA
^LL250
^CI13
^FO0,0^AEN,28,15^FD€岂儎序噲埍媽崕廜 FS
^FO0,28^AEN,28,15^FD 悜捬敃枟橇殯湞濶^FS
^FO0,56^AEN,28,15^FD 牕iiぅHī砙槩  ^FS
^FO0,84^AEN,28,15^FD 氦渤吹斗腹夯冀究^FS
^FO0,112^AEN,28,15^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,140^AEN,28,15^FD 醒矣哉肿到谯茌捱^FS
^FO0,168^AEN,28,15^FD 噌忏溴骁栝觌祉铒^FS
^FO0,194^AEN,28,15^FD 瘃蝮趑鲼      ?^FS
^XZ

^XA
^LL230
^CI13
^FO0,0^AFN,26,13^FD€岂儎序噲埍媽崕廜 FS
^FO0,26^AFN,26,13^FD 悜捬敃枟橇殯湞濶^FS
^FO0,52^AFN,26,13^FD 牕iiぅHī砙槩  ^FS
^FO0,78^AFN,26,13^FD 氦渤吹斗腹夯冀究^FS
^FO0,104^AFN,26,13^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,130^AFN,26,13^FD 醒矣哉肿到谯茌捱^FS
^FO0,156^AFN,26,13^FD 噌忏溴骁栝觌祉铒^FS
^FO0,182^AFN,26,13^FD 瘃蝮趑鲼      ?^FS
^XZ

^XA
^LL600
^CI13
^FO0,0^AGN,60,40^FD€岂儎序噲埍媽崕廜 FS
^FO0,60^AGN,60,40^FD 悜捬敃枟橇殯湞濶^FS
^FO0,120^AGN,60,40^FD 牕iiぅHī砙槩  ^FS
^FO0,180^AGN,60,40^FD 氦渤吹斗腹夯冀究^FS
```

```
^FO0,240^AGN,60,40^FD懒旅呐魄壬仕掏蝸^FS
^FO0,300^AGN,60,40^FD醒矣哉肿到谯荏捱^FS
^FO0,360^AGN,60,40^FD噌忏溴骁栝觌祉铒^FS
^FO0,480^AGN,60,40^FD瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL200
^CI13
^FO0,0^AHN,21,13^FD€亗儎厗噲塒媽崕廭 FS
^FO0,21^AHN,21,13^FD悜振欧枟椸殯湞瀾^FS
^FO0,42^AHN,21,13^FD膍iiiぅHī砇臬   ^FS
^FO0,63^AHN,21,13^FD氨渤吹斗腹夯冀究^FS
^FO0,84^AHN,21,13^FD懒旅呐魄壬仕掏蝸^FS
^FO0,105^AHN,21,13^FD醒矣哉肿到谯荏捱^FS
^FO0,126^AHN,21,13^FD噌忏溴骁栝觌祉铒^FS
^FO0,147^AHN,21,13^FD瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL180
^CI13
^FO0,0^APN,20,18^FD€亗儎厗噲塒媽崕廭 FS
^FO0,20^APN,20,18^FD悜振欧枟椸殯湞瀾^FS
^FO0,40^APN,20,18^FD膍iiiぅHī砇臬   ^FS
^FO0,60^APN,20,18^FD氨渤吹斗腹夯冀究^FS
^FO0,80^APN,20,18^FD懒旅呐魄壬仕掏蝸^FS
^FO0,100^APN,20,18^FD醒矣哉肿到谯荏捱^FS
^FO0,120^APN,20,18^FD噌忏溴骁栝觌祉铒^FS
^FO0,140^APN,20,18^FD瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL240
^CI13
^FO0,0^AQN,28,24^FD€亗儎厗噲塒媽崕廭 FS
^FO0,28^AQN,28,24^FD悜振欧枟椸殯湞瀾^FS
^FO0,56^AQN,28,24^FD膍iiiぅHī砇臬   ^FS
^FO0,84^AQN,28,24^FD氨渤吹斗腹夯冀究^FS
^FO0,112^AQN,28,24^FD懒旅呐魄壬仕掏蝸^FS
^FO0,140^AQN,28,24^FD醒矣哉肿到谯荏捱^FS
^FO0,168^AQN,28,24^FD噌忏溴骁栝觌祉铒^FS
^FO0,196^AQN,28,24^FD瘃蝮趱鲼        ?^FS
^XZ
```

```
^XA
^LL300
^CI13
^FO0,0^ARN,35,31^FD€岂儀庠噲埘媽崕癀 FS
^FO0,35^ARN,35,31^FD 悜搌敺枟棯殨湞灁^FS
^FO0,70^ARN,35,31^FD 牕iiiぅHī砐槊   ^FS
^FO0,105^ARN,35,31^FD 氨渤吹斗腹夯冀究^FS
^FO0,140^ARN,35,31^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,175^ARN,35,31^FD 醒矣哉肿到谯茬捱^FS
^FO0,210^ARN,35,31^FD 噌忏溴骁栝觐祉铒^FS
^FO0,245^ARN,35,31^FD 瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL350
^CI13
^FO0,0^ASN,40,35^FD€岂儀庠噲埘媽崕癀 FS
^FO0,40^ASN,40,35^FD 悜搌敺枟棯殨湞灁^FS
^FO0,80^ASN,40,35^FD 牕iiiぅHī砐槊   ^FS
^FO0,120^ASN,40,35^FD 氨渤吹斗腹夯冀究^FS
^FO0,160^ASN,40,35^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,200^ASN,40,35^FD 醒矣哉肿到谯茬捱^FS
^FO0,240^ASN,40,35^FD 噌忏溴骁栝觐祉铒^FS
^FO0,280^ASN,40,35^FD 瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL400
^CI13
^FO0,0^ATN,48,42^FD€岂儀庠噲埘媽崕癀 FS
^FO0,48^ATN,48,42^FD 悜搌敺枟棯殨湞灁^FS
^FO0,96^ATN,48,42^FD 牕iiiぅHī砐槊   ^FS
^FO0,144^ATN,48,42^FD 氨渤吹斗腹夯冀究^FS
^FO0,192^ATN,48,42^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,240^ATN,48,42^FD 醒矣哉肿到谯茬捱^FS
^FO0,288^ATN,48,42^FD 噌忏溴骁栝觐祉铒^FS
^FO0,336^ATN,48,42^FD 瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL500
^CI13
^FO0,0^AUN,59,53^FD€岂儀庠噲埘媽崕癀 FS
^FO0,59^AUN,59,53^FD 悜搌敺枟棯殨湞灁^FS
^FO0,118^AUN,59,53^FD 牕iiiぅHī砐槊   ^FS
```

```
^FO0,190^AUN,59,53^FD氨渤吹斗腹夯冀究^FS
^FO0,236^AUN,59,53^FD懒旅呐魄壬仕掏蜗^FS
^FO0,295^AUN,59,53^FD醒矣哉肿到谯茬捱^FS
^FO0,354^AUN,59,53^FD嚓忏溴骁栝觇祉铒^FS
^FO0,413^AUN,59,53^FD瘃蝮趱鲩      ?^FS
^XZ


^XA
^LL750
^CI13
^FO0,0^AVN,80,71^FD€岂馓厍噲塌媽崾癀 FS
^FO0,80^AVN,80,71^FD 悜振欭枟槞殯滇澜^FS
^FO0,160^AVN,80,71^FD 牏iiiぅHī砸槊  ^FS
^FO0,240^AVN,80,71^FD氨渤吹斗腹夯冀究^FS
^FO0,320^AVN,80,71^FD懒旅呐魄壬仕掏蜗^FS
^FO0,480^AVN,80,71^FD醒矣哉肿到谯茬捱^FS
^FO0,560^AVN,80,71^FD嚓忏溴骁栝觇祉铒^FS
^FO0,640^AVN,80,71^FD瘃蝮趱鲩      ?^FS
^XZ
```

CP850R0-12 Test

```
^XA
^PW800
^LL200
^CI0 ^FO40,0^AAN,9,5^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,USA 1
^CI1 ^FO40,9^AAN,9,5^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,USA 2
^CI2 ^FO40,18^AAN,9,5^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,UK
^CI3 ^FO40,27^AAN,9,5^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Holland
^CI4 ^FO40,36^AAN,9,5^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,DErmark/Norway
^CI5 ^FO40,45^AAN,9,5^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Sweden/Finland
^CI6 ^FO40,54^AAN,9,5^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Germany
^CI7 ^FO40,63^AAN,9,5^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 1
^CI8 ^FO40,72^AAN,9,5^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 2
^CI9 ^FO40,81^AAN,9,5^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Italy
^CI10^FO40,90^AAN,9,5^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Spain
^CI11^FO40,99^AAN,9,5^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,others
^CI12^FO40,108^AAN,9,5^FH^FD#0@[\]_5E`{|}_7E^FS ;DOS 850R,Janan
^XZ

^XA
^LL200
^CI0 ^FO40,0^ABN,11,7^FH^FD#0@[\]_5E`{|}_7E^FS    ;DOS 850R,USA 1
^CI1 ^FO40,11^ABN,11,7^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,USA 2
^CI2 ^FO40,22^ABN,11,7^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,UK
^CI3 ^FO40,33^ABN,11,7^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,Holland
^CI4 ^FO40,44^ABN,11,7^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,DErmark/Norway
^CI5 ^FO40,55^ABN,11,7^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,Sweden/Finland
^CI6 ^FO40,66^ABN,11,7^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,Germany
^CI7 ^FO40,77^ABN,11,7^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,France 1
^CI8 ^FO40,88^ABN,11,7^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,France 2
^CI9 ^FO40,99^ABN,11,7^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,Italy
^CI10^FO40,110^ABN,11,7^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Spain
^CI11^FO40,121^ABN,11,7^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,others
^CI12^FO40,132^ABN,11,7^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Janan
^XZ

^XA
^LL300
^CI0 ^FO40,0^ACN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS    ;DOS 850R,USA 1
^CI1 ^FO40,18^ACN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,USA 2
^CI2 ^FO40,36^ACN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,UK
^CI3 ^FO40,54^ACN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,Holland
^CI4 ^FO40,72^ACN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,DErmark/Norway
```

```
^CI5 ^FO40,90^ACN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,Sweden/Finland
^CI6 ^FO40,108^ACN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Germany
^CI7 ^FO40,126^ACN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 1
^CI8 ^FO40,144^ACN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 2
^CI9 ^FO40,162^ACN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Italy
^CI10^FO40,180^ACN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Spain
^CI11^FO40,198^ACN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,others
^CI12^FO40,216^ACN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Janan
^XZ

^XA
^LL300
^CI0 ^FO40,0^ADN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS    ;DOS 850R,USA 1
^CI1 ^FO40,18^ADN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,USA 2
^CI2 ^FO40,36^ADN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,UK
^CI3 ^FO40,54^ADN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,Holland
^CI4 ^FO40,72^ADN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,DErmark/Norway
^CI5 ^FO40,90^ADN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,Sweden/Finland
^CI6 ^FO40,108^ADN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Germany
^CI7 ^FO40,126^ADN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 1
^CI8 ^FO40,144^ADN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 2
^CI9 ^FO40,162^ADN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Italy
^CI10^FO40,180^ADN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Spain
^CI11^FO40,198^ADN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,others
^CI12^FO40,216^ADN,18,10^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Janan
^XZ

^XA
^LL400
^CI0 ^FO40,0^AEN,28,15^FH^FD#0@[\]_5E`{|}_7E^FS    ;DOS 850R,USA 1
^CI1 ^FO40,28^AEN,28,15^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,USA 2
^CI2 ^FO40,56^AEN,28,15^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,UK
^CI3 ^FO40,84^AEN,28,15^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,Holland
^CI4 ^FO40,112^AEN,28,15^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,DErmark/Norway
^CI5 ^FO40,140^AEN,28,15^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Sweden/Finland
^CI6 ^FO40,168^AEN,28,15^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Germany
^CI7 ^FO40,196^AEN,28,15^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 1
^CI8 ^FO40,224^AEN,28,15^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 2
^CI9 ^FO40,252^AEN,28,15^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Italy
^CI10^FO40,280^AEN,28,15^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Spain
^CI11^FO40,308^AEN,28,15^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,others
^CI12^FO40,336^AEN,28,15^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Janan
^XZ

^XA
```

```
^LL400
^CI0 ^FO40,0^AFN,26,13^FH^FD#0@[\]_5E`{|}_7E^FS    ;DOS 850R,USA 1
^CI1 ^FO40,26^AFN,26,13^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,USA 2
^CI2 ^FO40,52^AFN,26,13^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,UK
^CI3 ^FO40,78^AFN,26,13^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,Holland
^CI4 ^FO40,104^AFN,26,13^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,DErmark/Norway
^CI5 ^FO40,130^AFN,26,13^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Sweden/Finland
^CI6 ^FO40,156^AFN,26,13^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Germany
^CI7 ^FO40,182^AFN,26,13^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 1
^CI8 ^FO40,208^AFN,26,13^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 2
^CI9 ^FO40,234^AFN,26,13^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Italy
^CI10^FO40,260^AFN,26,13^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Spain
^CI11^FO40,286^AFN,26,13^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,others
^CI12^FO40,312^AFN,26,13^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Janan
^XZ

^XA
^CI0 ^FO40,0^AGN,60,40^FH^FD#0@[\]_5E`{|}_7E^FS    ;DOS 850R,USA 1
^CI1 ^FO40,60^AGN,60,40^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,USA 2
^CI2 ^FO40,120^AGN,60,40^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,UK
^CI3 ^FO40,180^AGN,60,40^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Holland
^CI4 ^FO40,240^AGN,60,40^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,DErmark/Norway
^CI5 ^FO40,300^AGN,60,40^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Sweden/Finland
^CI6 ^FO40,360^AGN,60,40^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Germany
^CI7 ^FO40,420^AGN,60,40^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 1
^CI8 ^FO40,480^AGN,60,40^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 2
^CI9 ^FO40,540^AGN,60,40^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Italy
^CI10^FO40,600^AGN,60,40^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Spain
^CI11^FO40,660^AGN,60,40^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,others
^CI12^FO40,720^AGN,60,40^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Janan
^XZ

^XA
^LL400
^CI0 ^FO40,0^AHN,21,13^FH^FD#0@[\]_5E`{|}_7E^FS    ;DOS 850R,USA 1
^CI1 ^FO40,21^AHN,21,13^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,USA 2
^CI2 ^FO40,42^AHN,21,13^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,UK
^CI3 ^FO40,63^AHN,21,13^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,Holland
^CI4 ^FO40,84^AHN,21,13^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,DErmark/Norway
^CI5 ^FO40,105^AHN,21,13^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Sweden/Finland
^CI6 ^FO40,126^AHN,21,13^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Germany
^CI7 ^FO40,147^AHN,21,13^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 1
^CI8 ^FO40,168^AHN,21,13^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 2
^CI9 ^FO40,189^AHN,21,13^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Italy
^CI10^FO40,210^AHN,21,13^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Spain
```

```
^CI11^FO40,231^AHN,21,13^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,others
^CI12^FO40,252^AHN,21,13^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Janan
^XZ

^XA
^LL400
^CI0 ^FO40,0^APN,20,18^FH^FD#0@[\]_5E`{|}_7E^FS    ;DOS 850R,USA 1
^CI1 ^FO40,20^APN,20,18^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,USA 2
^CI2 ^FO40,40^APN,20,18^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,UK
^CI3 ^FO40,60^APN,20,18^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,Holland
^CI4 ^FO40,80^APN,20,18^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,DErmark/Norway
^CI5 ^FO40,100^APN,20,18^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Sweden/Finland
^CI6 ^FO40,120^APN,20,18^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Germany
^CI7 ^FO40,140^APN,20,18^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 1
^CI8 ^FO40,160^APN,20,18^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 2
^CI9 ^FO40,180^APN,20,18^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Italy
^CI10^FO40,200^APN,20,18^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Spain
^CI11^FO40,220^APN,20,18^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,others
^CI12^FO40,240^APN,20,18^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Janan
^XZ

^XA
^LL400
^CI0 ^FO40,0^AQN,28,24^FH^FD#0@[\]_5E`{|}_7E^FS    ;DOS 850R,USA 1
^CI1 ^FO40,28^AQN,28,24^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,USA 2
^CI2 ^FO40,56^AQN,28,24^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,UK
^CI3 ^FO40,84^AQN,28,24^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,Holland
^CI4 ^FO40,112^AQN,28,24^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,DErmark/Norway
^CI5 ^FO40,140^AQN,28,24^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Sweden/Finland
^CI6 ^FO40,168^AQN,28,24^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Germany
^CI7 ^FO40,196^AQN,28,24^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 1
^CI8 ^FO40,224^AQN,28,24^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 2
^CI9 ^FO40,252^AQN,28,24^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Italy
^CI10^FO40,280^AQN,28,24^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Spain
^CI11^FO40,308^AQN,28,24^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,others
^CI12^FO40,336^AQN,28,24^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Janan
^XZ

^XA
^LL500
^CI0 ^FO40,0^ARN,35,31^FH^FD#0@[\]_5E`{|}_7E^FS    ;DOS 850R,USA 1
^CI1 ^FO40,35^ARN,35,31^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,USA 2
^CI2 ^FO40,70^ARN,35,31^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,UK
^CI3 ^FO40,105^ARN,35,31^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,Holland
^CI4 ^FO40,140^ARN,35,31^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,DErmark/Norway
```

```
^CI5 ^FO40,175^ARN,35,31^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Sweden/Finland
^CI6 ^FO40,210^ARN,35,31^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Germany
^CI7 ^FO40,245^ARN,35,31^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 1
^CI8 ^FO40,280^ARN,35,31^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 2
^CI9 ^FO40,315^ARN,35,31^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Italy
^CI10^FO40,350^ARN,35,31^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Spain
^CI11^FO40,385^ARN,35,31^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,others
^CI12^FO40,420^ARN,35,31^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Janan
^XZ

^XA
^LL600
^CI0 ^FO40,0^ASN,40,35^FH^FD#0@[\]_5E`{|}_7E^FS    ;DOS 850R,USA 1
^CI1 ^FO40,40^ASN,40,35^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,USA 2
^CI2 ^FO40,80^ASN,40,35^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,UK
^CI3 ^FO40,120^ASN,40,35^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Holland
^CI4 ^FO40,160^ASN,40,35^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,DErmark/Norway
^CI5 ^FO40,200^ASN,40,35^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Sweden/Finland
^CI6 ^FO40,240^ASN,40,35^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Germany
^CI7 ^FO40,280^ASN,40,35^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 1
^CI8 ^FO40,320^ASN,40,35^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 2
^CI9 ^FO40,360^ASN,40,35^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Italy
^CI10^FO40,400^ASN,40,35^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Spain
^CI11^FO40,440^ASN,40,35^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,others
^CI12^FO40,480^ASN,40,35^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Janan
^XZ

^XA
^LL800
^CI0 ^FO40,0^ATN,48,42^FH^FD#0@[\]_5E`{|}_7E^FS    ;DOS 850R,USA 1
^CI1 ^FO40,48^ATN,48,42^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,USA 2
^CI2 ^FO40,96^ATN,48,42^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,UK
^CI3 ^FO40,144^ATN,48,42^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Holland
^CI4 ^FO40,192^ATN,48,42^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,DErmark/Norway
^CI5 ^FO40,240^ATN,48,42^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Sweden/Finland
^CI6 ^FO40,288^ATN,48,42^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Germany
^CI7 ^FO40,336^ATN,48,42^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 1
^CI8 ^FO40,384^ATN,48,42^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 2
^CI9 ^FO40,432^ATN,48,42^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Italy
^CI10^FO40,528^ATN,48,42^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Spain
^CI11^FO40,576^ATN,48,42^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,others
^CI12^FO40,624^ATN,48,42^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Janan
^XZ

^XA
```

```
^LL900
^CI0 ^FO40,0^AUN,59,53^FH^FD#0@[\]_5E`{|}_7E^FS    ;DOS 850R,USA 1
^CI1 ^FO40,59^AUN,59,53^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,USA 2
^CI2 ^FO40,118^AUN,59,53^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,UK
^CI3 ^FO40,190^AUN,59,53^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Holland
^CI4 ^FO40,236^AUN,59,53^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,DErmark/Norway
^CI5 ^FO40,295^AUN,59,53^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Sweden/Finland
^CI6 ^FO40,354^AUN,59,53^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Germany
^CI7 ^FO40,413^AUN,59,53^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 1
^CI8 ^FO40,472^AUN,59,53^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 2
^CI9 ^FO40,531^AUN,59,53^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Italy
^CI10^FO40,590^AUN,59,53^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Spain
^CI11^FO40,649^AUN,59,53^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,others
^CI12^FO40,708^AUN,59,53^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Janan
^XZ

^XA
^LL1160
^CI0 ^FO40,0^AVN,80,71^FH^FD#0@[\]_5E`{|}_7E^FS    ;DOS 850R,USA 1
^CI1 ^FO40,80^AVN,80,71^FH^FD#0@[\]_5E`{|}_7E^FS   ;DOS 850R,USA 2
^CI2 ^FO40,160^AVN,80,71^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,UK
^CI3 ^FO40,240^AVN,80,71^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Holland
^CI4 ^FO40,320^AVN,80,71^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,DErmark/Norway
^CI5 ^FO40,400^AVN,80,71^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Sweden/Finland
^CI6 ^FO40,480^AVN,80,71^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Germany
^CI7 ^FO40,560^AVN,80,71^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 1
^CI8 ^FO40,640^AVN,80,71^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,France 2
^CI9 ^FO40,720^AVN,80,71^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Italy
^CI10^FO40,800^AVN,80,71^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Spain
^CI11^FO40,880^AVN,80,71^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,others
^CI12^FO40,960^AVN,80,71^FH^FD#0@[\]_5E`{|}_7E^FS  ;DOS 850R,Janan
^XZ
```

CP1250 Test

```
^XA
^PW800
^LL100
^CI31
^FO0,0^AAN,9,5^FD€亗儎厗噲塒媽崕廧 FS
^FO0,9^AAN,9,5^FD 悜抳欴柇榅殯湞灛^FS
^FO0,18^AAN,9,5^FD 膍iii ぅ Hī砥槊   ^FS
^FO0,27^AAN,9,5^FD 氨渤吹斗腹夯冀究^FS
^FO0,36^AAN,9,5^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,45^AAN,9,5^FD 醒矣哉肿到谯茬捱^FS
^FO0,54^AAN,9,5^FD 噌忏溴骁栝觌祉铒^FS
^FO0,63^AAN,9,5^FD 瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL100
^CI31
^FO0,0^ABN,11,7^FD€亗儎厗噲塒媽崕廧 FS
^FO0,11^ABN,11,7^FD 悜抳欴柇榅殯湞灛^FS
^FO0,22^ABN,11,7^FD 膍iii ぅ Hī砥槊   ^FS
^FO0,33^ABN,11,7^FD 氨渤吹斗腹夯冀究^FS
^FO0,44^ABN,11,7^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,55^ABN,11,7^FD 醒矣哉肿到谯茬捱^FS
^FO0,66^ABN,11,7^FD 噌忏溴骁栝觌祉铒^FS
^FO0,77^ABN,11,7^FD 瘃蝮趱鲼        ?^FS
^XZ


^XA
^LL170
^CI31
^FO0,0^ACN,18,10^FD€亗儎厗噲塒媽崕廧 FS
^FO0,18^ACN,18,10^FD 悜抳欴柇榅殯湞灛^FS
^FO0,36^ACN,18,10^FD 膍iii ぅ Hī砥槊   ^FS
^FO0,54^ACN,18,10^FD 氨渤吹斗腹夯冀究^FS
^FO0,72^ACN,18,10^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,90^ACN,18,10^FD 醒矣哉肿到谯茬捱^FS
^FO0,108^ACN,18,10^FD 噌忏溴骁栝觌祉铒^FS
^FO0,126^ACN,18,10^FD 瘃蝮趱鲼        ?^FS
^XZ

^XA
```

```
^LL170
^CI31
^FO0,0^ADN,18,10^FD€岂儀庰噲埬媽崕廥 FS
^FO0,18^ADN,18,10^FD 悜搌敃柡樤殯湞灦^FS
^FO0,36^ADN,18,10^FD 牕iiiぅHī综槼   ^FS
^FO0,54^ADN,18,10^FD 氦渤吹斗腹夯冀究^FS
^FO0,72^ADN,18,10^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,90^ADN,18,10^FD 醒矣哉肿到谯荏捱^FS
^FO0,108^ADN,18,10^FD 噌忏溴骁栝觌祉铒^FS
^FO0,126^ADN,18,10^FD 瘃蝮趱鳟        ?^FS
^XZ

^XA
^LL250
^CI31
^FO0,0^AEN,28,15^FD€岂儀庰噲埬媽崕廥 FS
^FO0,28^AEN,28,15^FD 悜搌敃柡樤殯湞灦^FS
^FO0,56^AEN,28,15^FD 牕iiiぅHī砐槼   ^FS
^FO0,84^AEN,28,15^FD 氦渤吹斗腹夯冀究^FS
^FO0,112^AEN,28,15^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,140^AEN,28,15^FD 醒矣哉肿到谯荏捱^FS
^FO0,168^AEN,28,15^FD 噌忏溴骁栝觌祉铒^FS
^FO0,194^AEN,28,15^FD 瘃蝮趱鳟        ?^FS
^XZ

^XA
^LL230
^CI31
^FO0,0^AFN,26,13^FD€岂儀庰噲埬媽崕廥 FS
^FO0,26^AFN,26,13^FD 悜搌敃柡樤殯湞灦^FS
^FO0,52^AFN,26,13^FD 牕iiiぅHī砐槼   ^FS
^FO0,78^AFN,26,13^FD 氦渤吹斗腹夯冀究^FS
^FO0,104^AFN,26,13^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,130^AFN,26,13^FD 醒矣哉肿到谯荏捱^FS
^FO0,156^AFN,26,13^FD 噌忏溴骁栝觌祉铒^FS
^FO0,182^AFN,26,13^FD 瘃蝮趱鳟        ?^FS
^XZ

^XA
^LL600
^CI31
^FO0,0^AGN,60,40^FD€岂儀庰噲埬媽崕廥 FS
^FO0,60^AGN,60,40^FD 悜搌敃柡樤殯湞灦^FS
^FO0,120^AGN,60,40^FD 牕iiiぅHī砐槼   ^FS
^FO0,180^AGN,60,40^FD 氦渤吹斗腹夯冀究^FS
```

```
^FO0,240^AGN,60,40^FD懒旅呐魄壬仕掏蜗^FS
^FO0,300^AGN,60,40^FD醒矣哉肿到谯荏捱^FS
^FO0,360^AGN,60,40^FD噌忏溴骁栝觌祉铒^FS
^FO0,480^AGN,60,40^FD瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL200
^CI31
^FO0,0^AHN,21,13^FD€岂儀庌噲堈媽崕廥 FS
^FO0,21^AHN,21,13^FD 悜捬敂柡椦殨湞瀾^FS
^FO0,42^AHN,21,13^FD 牕iiぅHī砨椝   ^FS
^FO0,63^AHN,21,13^FD 氨渤吹斗腹夯冀究^FS
^FO0,84^AHN,21,13^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,105^AHN,21,13^FD 醒矣哉肿到谯荏捱^FS
^FO0,126^AHN,21,13^FD 噌忏溴骁栝觌祉铒^FS
^FO0,147^AHN,21,13^FD 瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL180
^CI31
^FO0,0^APN,20,18^FD€岂儀庌噲堈媽崕廥 FS
^FO0,20^APN,20,18^FD 悜捬敂柡椦殨湞瀾^FS
^FO0,40^APN,20,18^FD 牕iiぅHī砨椝   ^FS
^FO0,60^APN,20,18^FD 氨渤吹斗腹夯冀究^FS
^FO0,80^APN,20,18^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,100^APN,20,18^FD 醒矣哉肿到谯荏捱^FS
^FO0,120^APN,20,18^FD 噌忏溴骁栝觌祉铒^FS
^FO0,140^APN,20,18^FD 瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL240
^CI31
^FO0,0^AQN,28,24^FD€岂儀庌噲堈媽崕廥 FS
^FO0,28^AQN,28,24^FD 悜捬敂柡椦殨湞瀾^FS
^FO0,56^AQN,28,24^FD 牕iiぅHī砨椝   ^FS
^FO0,84^AQN,28,24^FD 氨渤吹斗腹夯冀究^FS
^FO0,112^AQN,28,24^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,140^AQN,28,24^FD 醒矣哉肿到谯荏捱^FS
^FO0,168^AQN,28,24^FD 噌忏溴骁栝觌祉铒^FS
^FO0,196^AQN,28,24^FD 瘃蝮趱鲼        ?^FS
^XZ
```

```
^XA
^LL300
^CI31
^FO0,0^ARN,35,31^FD€岂儎庠噲埘媽崕摨 FS
^FO0,35^ARN,35,31^FD 愲搌敃柭楴殡湞灟^FS
^FO0,70^ARN,35,31^FD 腮iiiぅHī砡槊   ^FS
^FO0,105^ARN,35,31^FD 氨渤吹斗腹夯冀究^FS
^FO0,140^ARN,35,31^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,175^ARN,35,31^FD 醒矣哉肿到谯茌捱^FS
^FO0,210^ARN,35,31^FD 噌忏溴骁栝觌祉铒^FS
^FO0,245^ARN,35,31^FD 瘃蝮趱鲼       ?^FS
^XZ

^XA
^LL350
^CI31
^FO0,0^ASN,40,35^FD€岂儎庠噲埘媽崕摨 FS
^FO0,40^ASN,40,35^FD 愲搌敃柭楴殡湞灟^FS
^FO0,80^ASN,40,35^FD 腮iiiぅHī砡槊   ^FS
^FO0,120^ASN,40,35^FD 氨渤吹斗腹夯冀究^FS
^FO0,160^ASN,40,35^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,200^ASN,40,35^FD 醒矣哉肿到谯茌捱^FS
^FO0,240^ASN,40,35^FD 噌忏溴骁栝觌祉铒^FS
^FO0,280^ASN,40,35^FD 瘃蝮趱鲼       ?^FS
^XZ

^XA
^LL400
^CI31
^FO0,0^ATN,48,42^FD€岂儎庠噲埘媽崕摨 FS
^FO0,48^ATN,48,42^FD 愲搌敃柭楴殡湞灟^FS
^FO0,96^ATN,48,42^FD 腮iiiぅHī砡槊   ^FS
^FO0,144^ATN,48,42^FD 氨渤吹斗腹夯冀究^FS
^FO0,192^ATN,48,42^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,240^ATN,48,42^FD 醒矣哉肿到谯茌捱^FS
^FO0,288^ATN,48,42^FD 噌忏溴骁栝觌祉铒^FS
^FO0,336^ATN,48,42^FD 瘃蝮趱鲼       ?^FS
^XZ

^XA
^LL500
^CI31
^FO0,0^AUN,59,53^FD€岂儎庠噲埘媽崕摨 FS
^FO0,59^AUN,59,53^FD 愲搌敃柭楴殡湞灟^FS
^FO0,118^AUN,59,53^FD 腮iiiぅHī砡槊   ^FS
```

```
^FO0,190^AUN,59,53^FD氨渤吹斗腹夯冀究^FS
^FO0,236^AUN,59,53^FD懒旅呐魄壬仕掏蜗^FS
^FO0,295^AUN,59,53^FD醒矣哉肿到谯茬捱^FS
^FO0,354^AUN,59,53^FD噌忏溴骁栝觌祉铒^FS
^FO0,413^AUN,59,53^FD瘃蝮趱鲼        ?^FS
^XZ


^XA
^LL750
^CI31
^FO0,0^AVN,80,71^FD€岂儀庠噲塂媽崕穬 FS
^FO0,80^AVN,80,71^FD 悜搌敃柼樣殯湞灦^FS
^FO0,160^AVN,80,71^FD 牎iii ぅHī砿槩   ^FS
^FO0,240^AVN,80,71^FD氨渤吹斗腹夯冀究^FS
^FO0,320^AVN,80,71^FD懒旅呐魄壬仕掏蜗^FS
^FO0,480^AVN,80,71^FD醒矣哉肿到谯茬捱^FS
^FO0,560^AVN,80,71^FD噌忏溴骁栝觌祉铒^FS
^FO0,640^AVN,80,71^FD瘃蝮趱鲼        ?^FS
^XZ
```

CP1251 Test

```
^XA
^PW800
^LL100
^CI33
^FO0,0^AAN,9,5^FD€岂儎厗噲塝媽崕厬 FS
^FO0,9^AAN,9,5^FD悜振敀柼棛殯湞灛^FS
^FO0,18^AAN,9,5^FD膤iiiぅHī砐槩   ^FS
^FO0,27^AAN,9,5^FD氨渤吹斗腹夯冀究^FS
^FO0,36^AAN,9,5^FD懒旅呐魄壬仕掏蜗^FS
^FO0,45^AAN,9,5^FD醒矣哉肿到谯茌捱^FS
^FO0,54^AAN,9,5^FD噌忏溴骁栝觌祉铒^FS
^FO0,63^AAN,9,5^FD瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL100
^CI33
^FO0,0^ABN,11,7^FD€岂儎厗噲塝媽崕厬 FS
^FO0,11^ABN,11,7^FD悜振敀柼棛殯湞灛^FS
^FO0,22^ABN,11,7^FD膤iiiぅHī砐槩   ^FS
^FO0,33^ABN,11,7^FD氨渤吹斗腹夯冀究^FS
^FO0,44^ABN,11,7^FD懒旅呐魄壬仕掏蜗^FS
^FO0,55^ABN,11,7^FD醒矣哉肿到谯茌捱^FS
^FO0,66^ABN,11,7^FD噌忏溴骁栝觌祉铒^FS
^FO0,77^ABN,11,7^FD瘃蝮趱鲼        ?^FS
^XZ


^XA
^LL170
^CI33
^FO0,0^ACN,18,10^FD€岂儎厗噲塝媽崕厬 FS
^FO0,18^ACN,18,10^FD悜振敀柼棛殯湞灛^FS
^FO0,36^ACN,18,10^FD膤iiiぅHī砐槩   ^FS
^FO0,54^ACN,18,10^FD氨渤吹斗腹夯冀究^FS
^FO0,72^ACN,18,10^FD懒旅呐魄壬仕掏蜗^FS
^FO0,90^ACN,18,10^FD醒矣哉肿到谯茌捱^FS
^FO0,108^ACN,18,10^FD噌忏溴骁栝觌祉铒^FS
^FO0,126^ACN,18,10^FD瘃蝮趱鲼        ?^FS
^XZ

^XA
```

```
^LL170
^CI33
^FO0,0^ADN,18,10^FD€岂儀庢噲墹媽崕廥 FS
^FO0,18^ADN,18,10^FD 悜振敭柗槞殯湞灁^FS
^FO0,36^ADN,18,10^FD 牎iii ぅ Hī综槊   ^FS
^FO0,54^ADN,18,10^FD 氨渤吹斗腹夯冀究^FS
^FO0,72^ADN,18,10^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,90^ADN,18,10^FD 醒矣哉肿到谯茬捱^FS
^FO0,108^ADN,18,10^FD 噌忏溴骁栝觌祉铒^FS
^FO0,126^ADN,18,10^FD 瘃蝮趱鲼       ?^FS
^XZ

^XA
^LL250
^CI33
^FO0,0^AEN,28,15^FD€岂儀庢噲墹媽崕廥 FS
^FO0,28^AEN,28,15^FD 悜振敭柗槞殯湞灁^FS
^FO0,56^AEN,28,15^FD 牎iii ぅ Hī砐槊   ^FS
^FO0,84^AEN,28,15^FD 氨渤吹斗腹夯冀究^FS
^FO0,112^AEN,28,15^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,140^AEN,28,15^FD 醒矣哉肿到谯茬捱^FS
^FO0,168^AEN,28,15^FD 噌忏溴骁栝觌祉铒^FS
^FO0,194^AEN,28,15^FD 瘃蝮趱鲼       ?^FS
^XZ

^XA
^LL230
^CI33
^FO0,0^AFN,26,13^FD€岂儀庢噲墹媽崕廥 FS
^FO0,26^AFN,26,13^FD 悜振敭柗槞殯湞灁^FS
^FO0,52^AFN,26,13^FD 牎iii ぅ Hī砐槊   ^FS
^FO0,78^AFN,26,13^FD 氨渤吹斗腹夯冀究^FS
^FO0,104^AFN,26,13^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,130^AFN,26,13^FD 醒矣哉肿到谯茬捱^FS
^FO0,156^AFN,26,13^FD 噌忏溴骁栝觌祉铒^FS
^FO0,182^AFN,26,13^FD 瘃蝮趱鲼       ?^FS
^XZ

^XA
^LL600
^CI33
^FO0,0^AGN,60,40^FD€岂儀庢噲墹媽崕廥 FS
^FO0,60^AGN,60,40^FD 悜振敭柗槞殯湞灁^FS
^FO0,120^AGN,60,40^FD 牎iii ぅ Hī砐槊   ^FS
^FO0,180^AGN,60,40^FD 氨渤吹斗腹夯冀究^FS
```

```
^FO0,240^AGN,60,40^FD懶旅呐魄壬仕掏蜗^FS
^FO0,300^AGN,60,40^FD醒矣哉肿到谯茬捱^FS
^FO0,360^AGN,60,40^FD噌忓溴骁栝觌祉铒^FS
^FO0,480^AGN,60,40^FD瘃蝮趱鲼       ?^FS
^XZ

^XA
^LL200
^CI33
^FO0,0^AHN,21,13^FD€岂儎庠噲埖媽崕廨 FS
^FO0,21^AHN,21,13^FD 悜搌敃柭橀殯湞灁^FS
^FO0,42^AHN,21,13^FD 牎iiぅHī砐槼  ^FS
^FO0,63^AHN,21,13^FD 氨渤吹斗腹夯冀究^FS
^FO0,84^AHN,21,13^FD 懶旅呐魄壬仕掏蜗^FS
^FO0,105^AHN,21,13^FD 醒矣哉肿到谯茬捱^FS
^FO0,126^AHN,21,13^FD 噌忓溴骁栝觌祉铒^FS
^FO0,147^AHN,21,13^FD 瘃蝮趱鲼       ?^FS
^XZ

^XA
^LL180
^CI33
^FO0,0^APN,20,18^FD€岂儎庠噲埖媽崕廨 FS
^FO0,20^APN,20,18^FD 悜搌敃柭橀殯湞灁^FS
^FO0,40^APN,20,18^FD 牎iiぅHī砐槼  ^FS
^FO0,60^APN,20,18^FD 氨渤吹斗腹夯冀究^FS
^FO0,80^APN,20,18^FD 懶旅呐魄壬仕掏蜗^FS
^FO0,100^APN,20,18^FD 醒矣哉肿到谯茬捱^FS
^FO0,120^APN,20,18^FD 噌忓溴骁栝觌祉铒^FS
^FO0,140^APN,20,18^FD 瘃蝮趱鲼       ?^FS
^XZ

^XA
^LL240
^CI33
^FO0,0^AQN,28,24^FD€岂儎庠噲埖媽崕廨 FS
^FO0,28^AQN,28,24^FD 悜搌敃柭橀殯湞灁^FS
^FO0,56^AQN,28,24^FD 牎iiぅHī砐槼  ^FS
^FO0,84^AQN,28,24^FD 氨渤吹斗腹夯冀究^FS
^FO0,112^AQN,28,24^FD 懶旅呐魄壬仕掏蜗^FS
^FO0,140^AQN,28,24^FD 醒矣哉肿到谯茬捱^FS
^FO0,168^AQN,28,24^FD 噌忓溴骁栝觌祉铒^FS
^FO0,196^AQN,28,24^FD 瘃蝮趱鲼       ?^FS
^XZ
```

```
^XA
^LL300
^CI33
^FO0,0^ARN,35,31^FD€岂儠厍噲塌媽崕癟 FS
^FO0,35^ARN,35,31^FD 惺振欭枟槞殯滇瀰^FS
^FO0,70^ARN,35,31^FD 臆iiiぅHī砸槊  ^FS
^FO0,105^ARN,35,31^FD 氨渤吹斗腹夯冀究^FS
^FO0,140^ARN,35,31^FD 懶旅呐魄壬仕掏蜗^FS
^FO0,175^ARN,35,31^FD 醒矣哉肿到谯茬捱^FS
^FO0,210^ARN,35,31^FD 嚕忏溴骁栝覢祉铒^FS
^FO0,245^ARN,35,31^FD 瘃蝮趱鲩       ?^FS
^XZ

^XA
^LL350
^CI33
^FO0,0^ASN,40,35^FD€岂儠厍噲塌媽崕癟 FS
^FO0,40^ASN,40,35^FD 惺振欭枟槞殯滇瀰^FS
^FO0,80^ASN,40,35^FD 臆iiiぅHī砸槊  ^FS
^FO0,120^ASN,40,35^FD 氨渤吹斗腹夯冀究^FS
^FO0,160^ASN,40,35^FD 懶旅呐魄壬仕掏蜗^FS
^FO0,200^ASN,40,35^FD 醒矣哉肿到谯茬捱^FS
^FO0,240^ASN,40,35^FD 嚕忏溴骁栝覢祉铒^FS
^FO0,280^ASN,40,35^FD 瘃蝮趱鲩       ?^FS
^XZ

^XA
^LL400
^CI33
^FO0,0^ATN,48,42^FD€岂儠厍噲塌媽崕癟 FS
^FO0,48^ATN,48,42^FD 惺振欭枟槞殯滇瀰^FS
^FO0,96^ATN,48,42^FD 臆iiiぅHī砸槊  ^FS
^FO0,144^ATN,48,42^FD 氨渤吹斗腹夯冀究^FS
^FO0,192^ATN,48,42^FD 懶旅呐魄壬仕掏蜗^FS
^FO0,240^ATN,48,42^FD 醒矣哉肿到谯茬捱^FS
^FO0,288^ATN,48,42^FD 嚕忏溴骁栝覢祉铒^FS
^FO0,336^ATN,48,42^FD 瘃蝮趱鲩       ?^FS
^XZ

^XA
^LL500
^CI33
^FO0,0^AUN,59,53^FD€岂儠厍噲塌媽崕癟 FS
^FO0,59^AUN,59,53^FD 惺振欭枟槞殯滇瀰^FS
^FO0,118^AUN,59,53^FD 臆iiiぅHī砸槊  ^FS
```

```
^FO0,190^AUN,59,53^FD氦渤吹斗腹夯冀究^FS
^FO0,236^AUN,59,53^FD懒旅呐魄壬仕掏蜗^FS
^FO0,295^AUN,59,53^FD醒矣哉肿到谯荏捱^FS
^FO0,354^AUN,59,53^FD噌忏溴骁栝觌祉铒^FS
^FO0,413^AUN,59,53^FD瘃蝮趱鲼        ?^FS
^XZ


^XA
^LL750
^CI33
^FO0,0^AVN,80,71^FD€岂儀庠噲堬媽崕廥 FS
^FO0,80^AVN,80,71^FD 悜搌欴枟榁殯湞瀰^FS
^FO0,160^AVN,80,71^FD 牕iiiぅHī砙槼   ^FS
^FO0,240^AVN,80,71^FD氦渤吹斗腹夯冀究^FS
^FO0,320^AVN,80,71^FD懒旅呐魄壬仕掏蜗^FS
^FO0,480^AVN,80,71^FD醒矣哉肿到谯荏捱^FS
^FO0,560^AVN,80,71^FD噌忏溴骁栝觌祉铒^FS
^FO0,640^AVN,80,71^FD瘃蝮趱鲼        ?^FS
^XZ
```

CP1252 Test

```
^XA
^PW800
^LL100
^CI27
^FO0,0^AAN,9,5^FD€岂儎庢噲壀媽崕廘 FS
^FO0,9^AAN,9,5^FD 悜捬敃柡槴殱湞灀^FS
^FO0,18^AAN,9,5^FD 牎iiiぅHi砙椝   ^FS
^FO0,27^AAN,9,5^FD 氨渤吹斗腹夯冀究^FS
^FO0,36^AAN,9,5^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,45^AAN,9,5^FD 醒矣哉肿到谯茬捱^FS
^FO0,54^AAN,9,5^FD 噌忏溴骁栝觌祉铒^FS
^FO0,63^AAN,9,5^FD 瘃蝮趱鳋        ?^FS
^XZ

^XA
^LL100
^CI27
^FO0,0^ABN,11,7^FD€岂儎庢噲壀媽崕廘 FS
^FO0,11^ABN,11,7^FD 悜捬敃柡槴殱湞灀^FS
^FO0,22^ABN,11,7^FD 牎iiiぅHi砙椝   ^FS
^FO0,33^ABN,11,7^FD 氨渤吹斗腹夯冀究^FS
^FO0,44^ABN,11,7^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,55^ABN,11,7^FD 醒矣哉肿到谯茬捱^FS
^FO0,66^ABN,11,7^FD 噌忏溴骁栝觌祉铒^FS
^FO0,77^ABN,11,7^FD 瘃蝮趱鳋        ?^FS
^XZ


^XA
^LL170
^CI27
^FO0,0^ACN,18,10^FD€岂儎庢噲壀媽崕廘 FS
^FO0,18^ACN,18,10^FD 悜捬敃柡槴殱湞灀^FS
^FO0,36^ACN,18,10^FD 牎iiiぅHi砙椝   ^FS
^FO0,54^ACN,18,10^FD 氨渤吹斗腹夯冀究^FS
^FO0,72^ACN,18,10^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,90^ACN,18,10^FD 醒矣哉肿到谯茬捱^FS
^FO0,108^ACN,18,10^FD 噌忏溴骁栝觌祉铒^FS
^FO0,126^ACN,18,10^FD 瘃蝮趱鳋        ?^FS
^XZ

^XA
```

```
^LL170
^CI27
^FO0,0^ADN,18,10^FD€岂儠厍噲塌媽崕癟 FS
^FO0,18^ADN,18,10^FD 惺振欭枟槞殯滇瀰^FS
^FO0,36^ADN,18,10^FD 牋iiiぅHī綜槳  ^FS
^FO0,54^ADN,18,10^FD 氨渤吹斗腹夯冀究^FS
^FO0,72^ADN,18,10^FD 懶旅吶魄壬仕掏蜗^FS
^FO0,90^ADN,18,10^FD 醒矣哉肿到谯茬捱^FS
^FO0,108^ADN,18,10^FD 嚕忏溴骁栝覣祉铒^FS
^FO0,126^ADN,18,10^FD 瘃蝮趱鳝      ?^FS
^XZ

^XA
^LL250
^CI27
^FO0,0^AEN,28,15^FD€岂儠厍噲塌媽崕癟 FS
^FO0,28^AEN,28,15^FD 惺振欭枟槞殯滇瀰^FS
^FO0,56^AEN,28,15^FD 牋iiiぅHī砸槳  ^FS
^FO0,84^AEN,28,15^FD 氨渤吹斗腹夯冀究^FS
^FO0,112^AEN,28,15^FD 懶旅吶魄壬仕掏蜗^FS
^FO0,140^AEN,28,15^FD 醒矣哉肿到谯茬捱^FS
^FO0,168^AEN,28,15^FD 嚕忏溴骁栝覣祉铒^FS
^FO0,194^AEN,28,15^FD 瘃蝮趱鳝      ?^FS
^XZ

^XA
^LL230
^CI27
^FO0,0^AFN,26,13^FD€岂儠厍噲塌媽崕癟 FS
^FO0,26^AFN,26,13^FD 惺振欭枟槞殯滇瀰^FS
^FO0,52^AFN,26,13^FD 牋iiiぅHī砸槳  ^FS
^FO0,78^AFN,26,13^FD 氨渤吹斗腹夯冀究^FS
^FO0,104^AFN,26,13^FD 懶旅吶魄壬仕掏蜗^FS
^FO0,130^AFN,26,13^FD 醒矣哉肿到谯茬捱^FS
^FO0,156^AFN,26,13^FD 嚕忏溴骁栝覣祉铒^FS
^FO0,182^AFN,26,13^FD 瘃蝮趱鳝      ?^FS
^XZ

^XA
^LL600
^CI27
^FO0,0^AGN,60,40^FD€岂儠厍噲塌媽崕癟 FS
^FO0,60^AGN,60,40^FD 惺振欭枟槞殯滇瀰^FS
^FO0,120^AGN,60,40^FD 牋iiiぅHī砸槳  ^FS
^FO0,180^AGN,60,40^FD 氨渤吹斗腹夯冀究^FS
```

```
^FO0,240^AGN,60,40^FD懒旅呐魄壬仕掏蜗^FS
^FO0,300^AGN,60,40^FD醒矣哉肿到谯茬捱^FS
^FO0,360^AGN,60,40^FD噌忏溴骁栝觌祉铒^FS
^FO0,480^AGN,60,40^FD瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL200
^CI27
^FO0,0^AHN,21,13^FD€岂儀厍噲埘媽崕廥 FS
^FO0,21^AHN,21,13^FD悜振欧枟棯殯湞灦^FS
^FO0,42^AHN,21,13^FD膍iii ぅ Hī砨槩   ^FS
^FO0,63^AHN,21,13^FD氨渤吹斗腹夯冀究^FS
^FO0,84^AHN,21,13^FD懒旅呐魄壬仕掏蜗^FS
^FO0,105^AHN,21,13^FD醒矣哉肿到谯茬捱^FS
^FO0,126^AHN,21,13^FD噌忏溴骁栝觌祉铒^FS
^FO0,147^AHN,21,13^FD瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL180
^CI27
^FO0,0^APN,20,18^FD€岂儀厍噲埘媽崕廥 FS
^FO0,20^APN,20,18^FD悜振欧枟棯殯湞灦^FS
^FO0,40^APN,20,18^FD膍iii ぅ Hī砨槩   ^FS
^FO0,60^APN,20,18^FD氨渤吹斗腹夯冀究^FS
^FO0,80^APN,20,18^FD懒旅呐魄壬仕掏蜗^FS
^FO0,100^APN,20,18^FD醒矣哉肿到谯茬捱^FS
^FO0,120^APN,20,18^FD噌忏溴骁栝觌祉铒^FS
^FO0,140^APN,20,18^FD瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL240
^CI27
^FO0,0^AQN,28,24^FD€岂儀厍噲埘媽崕廥 FS
^FO0,28^AQN,28,24^FD悜振欧枟棯殯湞灦^FS
^FO0,56^AQN,28,24^FD膍iii ぅ Hī砨槩   ^FS
^FO0,84^AQN,28,24^FD氨渤吹斗腹夯冀究^FS
^FO0,112^AQN,28,24^FD懒旅呐魄壬仕掏蜗^FS
^FO0,140^AQN,28,24^FD醒矣哉肿到谯茬捱^FS
^FO0,168^AQN,28,24^FD噌忏溴骁栝觌祉铒^FS
^FO0,196^AQN,28,24^FD瘃蝮趱鲼        ?^FS
^XZ
```

```
^XA
^LL300
^CI27
^FO0,0^ARN,35,31^FD€岂儀厍噲堨媽峌廨 FS
^FO0,35^ARN,35,31^FD 悜搌敃柇檭殯湞灁^FS
^FO0,70^ARN,35,31^FD 牕iiiぅHī砐槊  ^FS
^FO0,105^ARN,35,31^FD 氦渤吹斗腹夯冀究^FS
^FO0,140^ARN,35,31^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,175^ARN,35,31^FD 醒矣哉肿到谯茌捱^FS
^FO0,210^ARN,35,31^FD 噌忏溴骁栝觌祉铒^FS
^FO0,245^ARN,35,31^FD 瘃蝮趱鲼       ?^FS
^XZ

^XA
^LL350
^CI27
^FO0,0^ASN,40,35^FD€岂儀厍噲堨媽峌廨 FS
^FO0,40^ASN,40,35^FD 悜搌敃柇檭殯湞灁^FS
^FO0,80^ASN,40,35^FD 牕iiiぅHī砐槊  ^FS
^FO0,120^ASN,40,35^FD 氦渤吹斗腹夯冀究^FS
^FO0,160^ASN,40,35^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,200^ASN,40,35^FD 醒矣哉肿到谯茌捱^FS
^FO0,240^ASN,40,35^FD 噌忏溴骁栝觌祉铒^FS
^FO0,280^ASN,40,35^FD 瘃蝮趱鲼       ?^FS
^XZ

^XA
^LL400
^CI27
^FO0,0^ATN,48,42^FD€岂儀厍噲堨媽峌廨 FS
^FO0,48^ATN,48,42^FD 悜搌敃柇檭殯湞灁^FS
^FO0,96^ATN,48,42^FD 牕iiiぅHī砐槊  ^FS
^FO0,144^ATN,48,42^FD 氦渤吹斗腹夯冀究^FS
^FO0,192^ATN,48,42^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,240^ATN,48,42^FD 醒矣哉肿到谯茌捱^FS
^FO0,288^ATN,48,42^FD 噌忏溴骁栝觌祉铒^FS
^FO0,336^ATN,48,42^FD 瘃蝮趱鲼       ?^FS
^XZ

^XA
^LL500
^CI27
^FO0,0^AUN,59,53^FD€岂儀厍噲堨媽峌廨 FS
^FO0,59^AUN,59,53^FD 悜搌敃柇檭殯湞灁^FS
^FO0,118^AUN,59,53^FD 牕iiiぅHī砐槊  ^FS
```

```
^FO0,190^AUN,59,53^FD氨渤吹斗腹夯冀究^FS
^FO0,236^AUN,59,53^FD懒旅呐魄壬仕掏蜗^FS
^FO0,295^AUN,59,53^FD醒矣哉肿到谯荏捱^FS
^FO0,354^AUN,59,53^FD噌忏溴骁栝觌祉铒^FS
^FO0,413^AUN,59,53^FD瘃蝮趱鲼       ?^FS
^XZ


^XA
^LL750
^CI27
^FO0,0^AVN,80,71^FD€岂儀庨噲埬媽崕廥 FS
^FO0,80^AVN,80,71^FD 悜掁欧柼樜殯湞灦^FS
^FO0,160^AVN,80,71^FD 牎iiiぅHī砐槷   ^FS
^FO0,240^AVN,80,71^FD氨渤吹斗腹夯冀究^FS
^FO0,320^AVN,80,71^FD懒旅呐魄壬仕掏蜗^FS
^FO0,480^AVN,80,71^FD醒矣哉肿到谯荏捱^FS
^FO0,560^AVN,80,71^FD噌忏溴骁栝觌祉铒^FS
^FO0,640^AVN,80,71^FD瘃蝮趱鲼       ?^FS
^XZ
```

CP1253 Test

```
^XA
^PW800
^LL100
^CI34
^FO0,0^AAN,9,5^FD€岦儀庨噲塮媽崕廥 FS
^FO0,9^AAN,9,5^FD 悜搌敀杦棯殯湞灙^FS
^FO0,18^AAN,9,5^FD 牕iiiぅHi砐槼  ^FS
^FO0,27^AAN,9,5^FD 氨渤吹斗腹夯冀究^FS
^FO0,36^AAN,9,5^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,45^AAN,9,5^FD 醒矣哉肿到谯荏捱^FS
^FO0,54^AAN,9,5^FD 噌忏溴骁栝觌祉铒^FS
^FO0,63^AAN,9,5^FD 瘃蝮趱鲼      ?^FS
^XZ

^XA
^LL100
^CI34
^FO0,0^ABN,11,7^FD€岦儀庨噲塮媽崕廥 FS
^FO0,11^ABN,11,7^FD 悜搌敀杦棯殯湞灙^FS
^FO0,22^ABN,11,7^FD 牕iiiぅHi砐槼  ^FS
^FO0,33^ABN,11,7^FD 氨渤吹斗腹夯冀究^FS
^FO0,44^ABN,11,7^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,55^ABN,11,7^FD 醒矣哉肿到谯荏捱^FS
^FO0,66^ABN,11,7^FD 噌忏溴骁栝觌祉铒^FS
^FO0,77^ABN,11,7^FD 瘃蝮趱鲼      ?^FS
^XZ


^XA
^LL170
^CI34
^FO0,0^ACN,18,10^FD€岦儀庨噲塮媽崕廥 FS
^FO0,18^ACN,18,10^FD 悜搌敀杦棯殯湞灙^FS
^FO0,36^ACN,18,10^FD 牕iiiぅHi砐槼  ^FS
^FO0,54^ACN,18,10^FD 氨渤吹斗腹夯冀究^FS
^FO0,72^ACN,18,10^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,90^ACN,18,10^FD 醒矣哉肿到谯荏捱^FS
^FO0,108^ACN,18,10^FD 噌忏溴骁栝觌祉铒^FS
^FO0,126^ACN,18,10^FD 瘃蝮趱鲼      ?^FS
^XZ

^XA
```

```
^LL170
^CI34
^FO0,0^ADN,18,10^FD€岂儠厍噲塌媽崕癟 FS
^FO0,18^ADN,18,10^FD 惺振欭枟槞殯滇瀰^FS
^FO0,36^ADN,18,10^FD 牋iiiぅHī綜槊  ^FS
^FO0,54^ADN,18,10^FD 氨渤吹斗腹夯冀究^FS
^FO0,72^ADN,18,10^FD 懶旅吶魄壬仕掏蜗^FS
^FO0,90^ADN,18,10^FD 醒矣哉肿到谯茬捱^FS
^FO0,108^ADN,18,10^FD 嚐忏溴骁栝覣祉铒^FS
^FO0,126^ADN,18,10^FD 瘃蝮趱鳝      ?^FS
^XZ

^XA
^LL250
^CI34
^FO0,0^AEN,28,15^FD€岂儠厍噲塌媽崕癟 FS
^FO0,28^AEN,28,15^FD 惺振欭枟槞殯滇瀰^FS
^FO0,56^AEN,28,15^FD 牋iiiぅHī砸槊  ^FS
^FO0,84^AEN,28,15^FD 氨渤吹斗腹夯冀究^FS
^FO0,112^AEN,28,15^FD 懶旅吶魄壬仕掏蜗^FS
^FO0,140^AEN,28,15^FD 醒矣哉肿到谯茬捱^FS
^FO0,168^AEN,28,15^FD 嚐忏溴骁栝覣祉铒^FS
^FO0,194^AEN,28,15^FD 瘃蝮趱鳝      ?^FS
^XZ

^XA
^LL230
^CI34
^FO0,0^AFN,26,13^FD€岂儠厍噲塌媽崕癟 FS
^FO0,26^AFN,26,13^FD 惺振欭枟槞殯滇瀰^FS
^FO0,52^AFN,26,13^FD 牋iiiぅHī砸槊  ^FS
^FO0,78^AFN,26,13^FD 氨渤吹斗腹夯冀究^FS
^FO0,104^AFN,26,13^FD 懶旅吶魄壬仕掏蜗^FS
^FO0,130^AFN,26,13^FD 醒矣哉肿到谯茬捱^FS
^FO0,156^AFN,26,13^FD 嚐忏溴骁栝覣祉铒^FS
^FO0,182^AFN,26,13^FD 瘃蝮趱鳝      ?^FS
^XZ

^XA
^LL600
^CI34
^FO0,0^AGN,60,40^FD€岂儠厍噲塌媽崕癟 FS
^FO0,60^AGN,60,40^FD 惺振欭枟槞殯滇瀰^FS
^FO0,120^AGN,60,40^FD 牋iiiぅHī砸槊  ^FS
^FO0,180^AGN,60,40^FD 氨渤吹斗腹夯冀究^FS
```

```
^FO0,240^AGN,60,40^FD懒旅呐魄壬仕掏蜗^FS
^FO0,300^AGN,60,40^FD醒矣哉肿到谯茌捱^FS
^FO0,360^AGN,60,40^FD噌忏溴骁栝觌祉铒^FS
^FO0,480^AGN,60,40^FD瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL200
^CI34
^FO0,0^AHN,21,13^FD€岂儀庠噲塮媽崕磧 FS
^FO0,21^AHN,21,13^FD 悜搲敃柭樲殯湞灡^FS
^FO0,42^AHN,21,13^FD 牕iiぅHī砙槼  ^FS
^FO0,63^AHN,21,13^FD 氨渤吹斗腹夯冀究^FS
^FO0,84^AHN,21,13^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,105^AHN,21,13^FD醒矣哉肿到谯茌捱^FS
^FO0,126^AHN,21,13^FD噌忏溴骁栝觌祉铒^FS
^FO0,147^AHN,21,13^FD瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL180
^CI34
^FO0,0^APN,20,18^FD€岂儀庠噲塮媽崕磧 FS
^FO0,20^APN,20,18^FD 悜搲敃柭樲殯湞灡^FS
^FO0,40^APN,20,18^FD 牕iiぅHī砙槼  ^FS
^FO0,60^APN,20,18^FD 氨渤吹斗腹夯冀究^FS
^FO0,80^APN,20,18^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,100^APN,20,18^FD醒矣哉肿到谯茌捱^FS
^FO0,120^APN,20,18^FD噌忏溴骁栝觌祉铒^FS
^FO0,140^APN,20,18^FD瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL240
^CI34
^FO0,0^AQN,28,24^FD€岂儀庠噲塮媽崕磧 FS
^FO0,28^AQN,28,24^FD 悜搲敃柭樲殯湞灡^FS
^FO0,56^AQN,28,24^FD 牕iiぅHī砙槼  ^FS
^FO0,84^AQN,28,24^FD 氨渤吹斗腹夯冀究^FS
^FO0,112^AQN,28,24^FD懒旅呐魄壬仕掏蜗^FS
^FO0,140^AQN,28,24^FD醒矣哉肿到谯茌捱^FS
^FO0,168^AQN,28,24^FD噌忏溴骁栝觌祉铒^FS
^FO0,196^AQN,28,24^FD瘃蝮趱鲼        ?^FS
^XZ
```

```
^XA
^LL300
^CI34
^FO0,0^ARN,35,31^FD€岂儠厍噲塌媽崕癟 FS
^FO0,35^ARN,35,31^FD 惺振欭枟槞殯滇瀰^FS
^FO0,70^ARN,35,31^FD 臆iiiぅHī砸槊  ^FS
^FO0,105^ARN,35,31^FD 氨渤吹斗腹夯冀究^FS
^FO0,140^ARN,35,31^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,175^ARN,35,31^FD 醒矣哉肿到谯茬捱^FS
^FO0,210^ARN,35,31^FD 嚓忏溴骁栝覢祉铒^FS
^FO0,245^ARN,35,31^FD 瘃蝮趱鲩      ?^FS
^XZ

^XA
^LL350
^CI34
^FO0,0^ASN,40,35^FD€岂儠厍噲塌媽崕癟 FS
^FO0,40^ASN,40,35^FD 惺振欭枟槞殯滇瀰^FS
^FO0,80^ASN,40,35^FD 臆iiiぅHī砸槊  ^FS
^FO0,120^ASN,40,35^FD 氨渤吹斗腹夯冀究^FS
^FO0,160^ASN,40,35^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,200^ASN,40,35^FD 醒矣哉肿到谯茬捱^FS
^FO0,240^ASN,40,35^FD 嚓忏溴骁栝覢祉铒^FS
^FO0,280^ASN,40,35^FD 瘃蝮趱鲩      ?^FS
^XZ

^XA
^LL400
^CI34
^FO0,0^ATN,48,42^FD€岂儠厍噲塌媽崕癟 FS
^FO0,48^ATN,48,42^FD 惺振欭枟槞殯滇瀰^FS
^FO0,96^ATN,48,42^FD 臆iiiぅHī砸槊  ^FS
^FO0,144^ATN,48,42^FD 氨渤吹斗腹夯冀究^FS
^FO0,192^ATN,48,42^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,240^ATN,48,42^FD 醒矣哉肿到谯茬捱^FS
^FO0,288^ATN,48,42^FD 嚓忏溴骁栝覢祉铒^FS
^FO0,336^ATN,48,42^FD 瘃蝮趱鲩      ?^FS
^XZ

^XA
^LL500
^CI34
^FO0,0^AUN,59,53^FD€岂儠厍噲塌媽崕癟 FS
^FO0,59^AUN,59,53^FD 惺振欭枟槞殯滇瀰^FS
^FO0,118^AUN,59,53^FD 臆iiiぅHī砸槊  ^FS
```

```
^FO0,190^AUN,59,53^FD氨渤吹斗腹夯冀究^FS
^FO0,236^AUN,59,53^FD懒旅呐魄壬仕掏蜗^FS
^FO0,295^AUN,59,53^FD醒矣哉肿到谯茬捱^FS
^FO0,354^AUN,59,53^FD嚓忏溴骁栝觇祉铒^FS
^FO0,413^AUN,59,53^FD瘃蝮趱鲩      ?^FS
^XZ


^XA
^LL750
^CI34
^FO0,0^AVN,80,71^FD€岂雠厍噲塌媽崾癀 FS
^FO0,80^AVN,80,71^FD 悜振欭枟槔殯滇澜^FS
^FO0,160^AVN,80,71^FD 牋iiiぅHī砸槊  ^FS
^FO0,240^AVN,80,71^FD氨渤吹斗腹夯冀究^FS
^FO0,320^AVN,80,71^FD懒旅呐魄壬仕掏蜗^FS
^FO0,480^AVN,80,71^FD醒矣哉肿到谯茬捱^FS
^FO0,560^AVN,80,71^FD嚓忏溴骁栝觇祉铒^FS
^FO0,640^AVN,80,71^FD瘃蝮趱鲩      ?^FS
^XZ
```

CP1254 Test

```
^XA
^PW800
^LL100
^CI35
^FO0,0^AAN,9,5^FD€岂儀庠噲塛媽崕廥 FS
^FO0,9^AAN,9,5^FD 悜掁敃柡棔殰湞瀾^FS
^FO0,18^AAN,9,5^FD 牕iiiぅHı砡槊   ^FS
^FO0,27^AAN,9,5^FD 氨渤吹斗腹夯冀究^FS
^FO0,36^AAN,9,5^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,45^AAN,9,5^FD 醒矣哉肿到谯荏捱^FS
^FO0,54^AAN,9,5^FD 噌忏溴骁栝觌祉铒^FS
^FO0,63^AAN,9,5^FD 瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL100
^CI35
^FO0,0^ABN,11,7^FD€岂儀庠噲塛媽崕廥 FS
^FO0,11^ABN,11,7^FD 悜掁敃柡棔殰湞瀾^FS
^FO0,22^ABN,11,7^FD 牕iiiぅHı砡槊   ^FS
^FO0,33^ABN,11,7^FD 氨渤吹斗腹夯冀究^FS
^FO0,44^ABN,11,7^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,55^ABN,11,7^FD 醒矣哉肿到谯荏捱^FS
^FO0,66^ABN,11,7^FD 噌忏溴骁栝觌祉铒^FS
^FO0,77^ABN,11,7^FD 瘃蝮趱鲼        ?^FS
^XZ


^XA
^LL170
^CI35
^FO0,0^ACN,18,10^FD€岂儀庠噲塛媽崕廥 FS
^FO0,18^ACN,18,10^FD 悜掁敃柡棔殰湞瀾^FS
^FO0,36^ACN,18,10^FD 牕iiiぅHı砡槊   ^FS
^FO0,54^ACN,18,10^FD 氨渤吹斗腹夯冀究^FS
^FO0,72^ACN,18,10^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,90^ACN,18,10^FD 醒矣哉肿到谯荏捱^FS
^FO0,108^ACN,18,10^FD 噌忏溴骁栝觌祉铒^FS
^FO0,126^ACN,18,10^FD 瘃蝮趱鲼        ?^FS
^XZ

^XA
```

```
^LL170
^CI35
^FO0,0^ADN,18,10^FD€岂儀序噲塎媽崕廎 FS
^FO0,18^ADN,18,10^FD 悜捬敃柇棆殯湞灦^FS
^FO0,36^ADN,18,10^FD 牕iii ぅHī综槊   ^FS
^FO0,54^ADN,18,10^FD 氨渤吹斗腹夯冀究^FS
^FO0,72^ADN,18,10^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,90^ADN,18,10^FD 醒矣哉肿到谯茌捱^FS
^FO0,108^ADN,18,10^FD 噌忏溴骁栝觏祉铒^FS
^FO0,126^ADN,18,10^FD 瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL250
^CI35
^FO0,0^AEN,28,15^FD€岂儀序噲塎媽崕廎 FS
^FO0,28^AEN,28,15^FD 悜捬敃柇棆殯湞灦^FS
^FO0,56^AEN,28,15^FD 牕iii ぅHī砙槊   ^FS
^FO0,84^AEN,28,15^FD 氨渤吹斗腹夯冀究^FS
^FO0,112^AEN,28,15^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,140^AEN,28,15^FD 醒矣哉肿到谯茌捱^FS
^FO0,168^AEN,28,15^FD 噌忏溴骁栝觏祉铒^FS
^FO0,194^AEN,28,15^FD 瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL230
^CI35
^FO0,0^AFN,26,13^FD€岂儀序噲塎媽崕廎 FS
^FO0,26^AFN,26,13^FD 悜捬敃柇棆殯湞灦^FS
^FO0,52^AFN,26,13^FD 牕iii ぅHī砙槊   ^FS
^FO0,78^AFN,26,13^FD 氨渤吹斗腹夯冀究^FS
^FO0,104^AFN,26,13^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,130^AFN,26,13^FD 醒矣哉肿到谯茌捱^FS
^FO0,156^AFN,26,13^FD 噌忏溴骁栝觏祉铒^FS
^FO0,182^AFN,26,13^FD 瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL600
^CI35
^FO0,0^AGN,60,40^FD€岂儀序噲塎媽崕廎 FS
^FO0,60^AGN,60,40^FD 悜捬敃柇棆殯湞灦^FS
^FO0,120^AGN,60,40^FD 牕iii ぅHī砙槊   ^FS
^FO0,180^AGN,60,40^FD 氨渤吹斗腹夯冀究^FS
```

```
^FO0,240^AGN,60,40^FD懒旅呐魄壬仕掏蜗^FS
^FO0,300^AGN,60,40^FD醒矣哉肿到谯茬捱^FS
^FO0,360^AGN,60,40^FD噌忏溴骁栝觌祉铒^FS
^FO0,480^AGN,60,40^FD瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL200
^CI35
^FO0,0^AHN,21,13^FD€岂儀厗噲堬媽崕廭 FS
^FO0,21^AHN,21,13^FD悜振敺柡椾殯湞灦^FS
^FO0,42^AHN,21,13^FD牕iiiぅHī砙槼   ^FS
^FO0,63^AHN,21,13^FD氨渤吹斗腹夯冀究^FS
^FO0,84^AHN,21,13^FD懒旅呐魄壬仕掏蜗^FS
^FO0,105^AHN,21,13^FD醒矣哉肿到谯茬捱^FS
^FO0,126^AHN,21,13^FD噌忏溴骁栝觌祉铒^FS
^FO0,147^AHN,21,13^FD瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL180
^CI35
^FO0,0^APN,20,18^FD€岂儀厗噲堬媽崕廭 FS
^FO0,20^APN,20,18^FD悜振敺柡椾殯湞灦^FS
^FO0,40^APN,20,18^FD牕iiiぅHī砙槼   ^FS
^FO0,60^APN,20,18^FD氨渤吹斗腹夯冀究^FS
^FO0,80^APN,20,18^FD懒旅呐魄壬仕掏蜗^FS
^FO0,100^APN,20,18^FD醒矣哉肿到谯茬捱^FS
^FO0,120^APN,20,18^FD噌忏溴骁栝觌祉铒^FS
^FO0,140^APN,20,18^FD瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL240
^CI35
^FO0,0^AQN,28,24^FD€岂儀厗噲堬媽崕廭 FS
^FO0,28^AQN,28,24^FD悜振敺柡椾殯湞灦^FS
^FO0,56^AQN,28,24^FD牕iiiぅHī砙槼   ^FS
^FO0,84^AQN,28,24^FD氨渤吹斗腹夯冀究^FS
^FO0,112^AQN,28,24^FD懒旅呐魄壬仕掏蜗^FS
^FO0,140^AQN,28,24^FD醒矣哉肿到谯茬捱^FS
^FO0,168^AQN,28,24^FD噌忏溴骁栝觌祉铒^FS
^FO0,196^AQN,28,24^FD瘃蝮趱鲼        ?^FS
^XZ
```

```
^XA
^LL300
^CI35
^FO0,0^ARN,35,31^FD€岂儠厍噲塌媽崕癟 FS
^FO0,35^ARN,35,31^FD 惺振欭枟槞殯滇瀰^FS
^FO0,70^ARN,35,31^FD 臆iiiぅHī砸槊  ^FS
^FO0,105^ARN,35,31^FD 氨渤吹斗腹夯冀究^FS
^FO0,140^ARN,35,31^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,175^ARN,35,31^FD 醒矣哉肿到谯茬捱^FS
^FO0,210^ARN,35,31^FD 嚓忏溴骁栝覣祉铒^FS
^FO0,245^ARN,35,31^FD 瘃蝮趱鲩      ?^FS
^XZ

^XA
^LL350
^CI35
^FO0,0^ASN,40,35^FD€岂儠厍噲塌媽崕癟 FS
^FO0,40^ASN,40,35^FD 惺振欭枟槞殯滇瀰^FS
^FO0,80^ASN,40,35^FD 臆iiiぅHī砸槊  ^FS
^FO0,120^ASN,40,35^FD 氨渤吹斗腹夯冀究^FS
^FO0,160^ASN,40,35^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,200^ASN,40,35^FD 醒矣哉肿到谯茬捱^FS
^FO0,240^ASN,40,35^FD 嚓忏溴骁栝覣祉铒^FS
^FO0,280^ASN,40,35^FD 瘃蝮趱鲩      ?^FS
^XZ

^XA
^LL400
^CI35
^FO0,0^ATN,48,42^FD€岂儠厍噲塌媽崕癟 FS
^FO0,48^ATN,48,42^FD 惺振欭枟槞殯滇瀰^FS
^FO0,96^ATN,48,42^FD 臆iiiぅHī砸槊  ^FS
^FO0,144^ATN,48,42^FD 氨渤吹斗腹夯冀究^FS
^FO0,192^ATN,48,42^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,240^ATN,48,42^FD 醒矣哉肿到谯茬捱^FS
^FO0,288^ATN,48,42^FD 嚓忏溴骁栝覣祉铒^FS
^FO0,336^ATN,48,42^FD 瘃蝮趱鲩      ?^FS
^XZ

^XA
^LL500
^CI35
^FO0,0^AUN,59,53^FD€岂儠厍噲塌媽崕癟 FS
^FO0,59^AUN,59,53^FD 惺振欭枟槞殯滇瀰^FS
^FO0,118^AUN,59,53^FD 臆iiiぅHī砸槊  ^FS
```

```
^FO0,190^AUN,59,53^FD氨渤吹斗腹夯冀究^FS
^FO0,236^AUN,59,53^FD懒旅呐魄壬仕掏蜗^FS
^FO0,295^AUN,59,53^FD醒矣哉肿到谯茌捱^FS
^FO0,354^AUN,59,53^FD噌忏溴骁栝觌祉铒^FS
^FO0,413^AUN,59,53^FD瘃蝮趱鲼      ?^FS
^XZ


^XA
^LL750
^CI35
^FO0,0^AVN,80,71^FD€岂傶庨噲堬媽崕癀 FS
^FO0,80^AVN,80,71^FD 悜搌敺柼棔殯湞瀾^FS
^FO0,160^AVN,80,71^FD 牎iiiぅHī砐槼  ^FS
^FO0,240^AVN,80,71^FD氨渤吹斗腹夯冀究^FS
^FO0,320^AVN,80,71^FD懒旅呐魄壬仕掏蜗^FS
^FO0,480^AVN,80,71^FD醒矣哉肿到谯茌捱^FS
^FO0,560^AVN,80,71^FD噌忏溴骁栝觌祉铒^FS
^FO0,640^AVN,80,71^FD瘃蝮趱鲼      ?^FS
^XZ
```

CP1255 Test

```
^XA
^PW800
^LL100
^CI36
^FO0,0^AAN,9,5^FD€亗儎厗噲塒媽崕廎 FS
^FO0,9^AAN,9,5^FD 悜捱敃枟椩殰湞瀏^FS
^FO0,18^AAN,9,5^FD 牕iiiぅHī砿槩  ^FS
^FO0,27^AAN,9,5^FD 氨渤吹斗腹夯冀究^FS
^FO0,36^AAN,9,5^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,45^AAN,9,5^FD 醒矣哉肿到谯茌捱^FS
^FO0,54^AAN,9,5^FD 噌忏溴骁栝觌祉铒^FS
^FO0,63^AAN,9,5^FD 瘃蝮趱鲼       ?^FS
^XZ

^XA
^LL100
^CI36
^FO0,0^ABN,11,7^FD€亗儎厗噲塒媽崕廎 FS
^FO0,11^ABN,11,7^FD 悜捱敃枟椩殰湞瀏^FS
^FO0,22^ABN,11,7^FD 牕iiiぅHī砿槩  ^FS
^FO0,33^ABN,11,7^FD 氨渤吹斗腹夯冀究^FS
^FO0,44^ABN,11,7^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,55^ABN,11,7^FD 醒矣哉肿到谯茌捱^FS
^FO0,66^ABN,11,7^FD 噌忏溴骁栝觌祉铒^FS
^FO0,77^ABN,11,7^FD 瘃蝮趱鲼       ?^FS
^XZ


^XA
^LL170
^CI36
^FO0,0^ACN,18,10^FD€亗儎厗噲塒媽崕廎 FS
^FO0,18^ACN,18,10^FD 悜捱敃枟椩殰湞瀏^FS
^FO0,36^ACN,18,10^FD 牕iiiぅHī砿槩  ^FS
^FO0,54^ACN,18,10^FD 氨渤吹斗腹夯冀究^FS
^FO0,72^ACN,18,10^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,90^ACN,18,10^FD 醒矣哉肿到谯茌捱^FS
^FO0,108^ACN,18,10^FD 噌忏溴骁栝觌祉铒^FS
^FO0,126^ACN,18,10^FD 瘃蝮趱鲼       ?^FS
^XZ

^XA
```

```
^LL170
^CI36
^FO0,0^ADN,18,10^FD€岂儎序噲堶媽崕蔣 FS
^FO0,18^ADN,18,10^FD 惺捩敂枟棯殯湞灦^FS
^FO0,36^ADN,18,10^FD 牕iii ぅ Hī综槼   ^FS
^FO0,54^ADN,18,10^FD 氨渤吹斗腹夯冀究^FS
^FO0,72^ADN,18,10^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,90^ADN,18,10^FD 醒矣哉肿到谯荏捱^FS
^FO0,108^ADN,18,10^FD 噌忏溴骁栝觌祉铒^FS
^FO0,126^ADN,18,10^FD 瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL250
^CI36
^FO0,0^AEN,28,15^FD€岂儎序噲堶媽崕蔣 FS
^FO0,28^AEN,28,15^FD 惺捩敂枟棯殯湞灦^FS
^FO0,56^AEN,28,15^FD 牕iii ぅ Hī砙槼   ^FS
^FO0,84^AEN,28,15^FD 氨渤吹斗腹夯冀究^FS
^FO0,112^AEN,28,15^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,140^AEN,28,15^FD 醒矣哉肿到谯荏捱^FS
^FO0,168^AEN,28,15^FD 噌忏溴骁栝觌祉铒^FS
^FO0,194^AEN,28,15^FD 瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL230
^CI36
^FO0,0^AFN,26,13^FD€岂儎序噲堶媽崕蔣 FS
^FO0,26^AFN,26,13^FD 惺捩敂枟棯殯湞灦^FS
^FO0,52^AFN,26,13^FD 牕iii ぅ Hī砙槼   ^FS
^FO0,78^AFN,26,13^FD 氨渤吹斗腹夯冀究^FS
^FO0,104^AFN,26,13^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,130^AFN,26,13^FD 醒矣哉肿到谯荏捱^FS
^FO0,156^AFN,26,13^FD 噌忏溴骁栝觌祉铒^FS
^FO0,182^AFN,26,13^FD 瘃蝮趱鲼        ?^FS
^XZ

^XA
^LL600
^CI36
^FO0,0^AGN,60,40^FD€岂儎序噲堶媽崕蔣 FS
^FO0,60^AGN,60,40^FD 惺捩敂枟棯殯湞灦^FS
^FO0,120^AGN,60,40^FD 牕iii ぅ Hī砙槼   ^FS
^FO0,180^AGN,60,40^FD 氨渤吹斗腹夯冀究^FS
```

```
^FO0,240^AGN,60,40^FD懒旅呐魄壬仕掏蜗^FS
^FO0,300^AGN,60,40^FD醒矣哉肿到谯茬捱^FS
^FO0,360^AGN,60,40^FD噌忏溴骁栝觌祉铒^FS
^FO0,480^AGN,60,40^FD瘃蝮趱鲼       ?^FS
^XZ

^XA
^LL200
^CI36
^FO0,0^AHN,21,13^FD€岂儀厗噲埘媽崕廨 FS
^FO0,21^AHN,21,13^FD悜搌敀柡橩殨湞灟^FS
^FO0,42^AHN,21,13^FD牎iiiぅHī砙槼  ^FS
^FO0,63^AHN,21,13^FD氨渤吹斗腹夯冀究^FS
^FO0,84^AHN,21,13^FD懒旅呐魄壬仕掏蜗^FS
^FO0,105^AHN,21,13^FD醒矣哉肿到谯茬捱^FS
^FO0,126^AHN,21,13^FD噌忏溴骁栝觌祉铒^FS
^FO0,147^AHN,21,13^FD瘃蝮趱鲼       ?^FS
^XZ

^XA
^LL180
^CI36
^FO0,0^APN,20,18^FD€岂儀厗噲埘媽崕廨 FS
^FO0,20^APN,20,18^FD悜搌敀柡橩殨湞灟^FS
^FO0,40^APN,20,18^FD牎iiiぅHī砙槼  ^FS
^FO0,60^APN,20,18^FD氨渤吹斗腹夯冀究^FS
^FO0,80^APN,20,18^FD懒旅呐魄壬仕掏蜗^FS
^FO0,100^APN,20,18^FD醒矣哉肿到谯茬捱^FS
^FO0,120^APN,20,18^FD噌忏溴骁栝觌祉铒^FS
^FO0,140^APN,20,18^FD瘃蝮趱鲼       ?^FS
^XZ

^XA
^LL240
^CI36
^FO0,0^AQN,28,24^FD€岂儀厗噲埘媽崕廨 FS
^FO0,28^AQN,28,24^FD悜搌敀柡橩殨湞灟^FS
^FO0,56^AQN,28,24^FD牎iiiぅHī砙槼  ^FS
^FO0,84^AQN,28,24^FD氨渤吹斗腹夯冀究^FS
^FO0,112^AQN,28,24^FD懒旅呐魄壬仕掏蜗^FS
^FO0,140^AQN,28,24^FD醒矣哉肿到谯茬捱^FS
^FO0,168^AQN,28,24^FD噌忏溴骁栝觌祉铒^FS
^FO0,196^AQN,28,24^FD瘃蝮趱鲼       ?^FS
^XZ
```

```
^XA
^LL300
^CI36
^FO0,0^ARN,35,31^FD€岂儠厍噲塌媽崕癟 FS
^FO0,35^ARN,35,31^FD 惺振欭枟椯殯滇瀰^FS
^FO0,70^ARN,35,31^FD 臆iiiぅHī砸槊  ^FS
^FO0,105^ARN,35,31^FD 氨渤吹斗腹夯冀究^FS
^FO0,140^ARN,35,31^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,175^ARN,35,31^FD 醒矣哉肿到谯茬捱^FS
^FO0,210^ARN,35,31^FD 嚓忏溴骁栝覢祉铒^FS
^FO0,245^ARN,35,31^FD 瘃蝮趱鲩       ?^FS
^XZ

^XA
^LL350
^CI36
^FO0,0^ASN,40,35^FD€岂儠厍噲塌媽崕癟 FS
^FO0,40^ASN,40,35^FD 惺振欭枟椯殯滇瀰^FS
^FO0,80^ASN,40,35^FD 臆iiiぅHī砸槊  ^FS
^FO0,120^ASN,40,35^FD 氨渤吹斗腹夯冀究^FS
^FO0,160^ASN,40,35^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,200^ASN,40,35^FD 醒矣哉肿到谯茬捱^FS
^FO0,240^ASN,40,35^FD 嚓忏溴骁栝覢祉铒^FS
^FO0,280^ASN,40,35^FD 瘃蝮趱鲩       ?^FS
^XZ

^XA
^LL400
^CI36
^FO0,0^ATN,48,42^FD€岂儠厍噲塌媽崕癟 FS
^FO0,48^ATN,48,42^FD 惺振欭枟椯殯滇瀰^FS
^FO0,96^ATN,48,42^FD 臆iiiぅHī砸槊  ^FS
^FO0,144^ATN,48,42^FD 氨渤吹斗腹夯冀究^FS
^FO0,192^ATN,48,42^FD 懒旅呐魄壬仕掏蜗^FS
^FO0,240^ATN,48,42^FD 醒矣哉肿到谯茬捱^FS
^FO0,288^ATN,48,42^FD 嚓忏溴骁栝覢祉铒^FS
^FO0,336^ATN,48,42^FD 瘃蝮趱鲩       ?^FS
^XZ

^XA
^LL500
^CI36
^FO0,0^AUN,59,53^FD€岂儠厍噲塌媽崕癟 FS
^FO0,59^AUN,59,53^FD 惺振欭枟椯殯滇瀰^FS
^FO0,118^AUN,59,53^FD 臆iiiぅHī砸槊  ^FS
```

```
^FO0,190^AUN,59,53^FD氨渤吹斗腹夯冀宄^FS
^FO0,236^AUN,59,53^FD懒旅呐魄壬仕掏蜗^FS
^FO0,295^AUN,59,53^FD醒矣哉肿到谯荏捱^FS
^FO0,354^AUN,59,53^FD噌忓溴骁栝觌祉铒^FS
^FO0,413^AUN,59,53^FD瘃蝮趱鲼       ?^FS
^XZ


^XA
^LL750
^CI36
^FO0,0^AVN,80,71^FD€岂儎庢噲埘媽崕廥 FS
^FO0,80^AVN,80,71^FD 悜捬敃柡棔殨湞瀾^FS
^FO0,160^AVN,80,71^FD 牕iiiぅHī砿椝   ^FS
^FO0,240^AVN,80,71^FD氨渤吹斗腹夯冀宄^FS
^FO0,320^AVN,80,71^FD懒旅呐魄壬仕掏蜗^FS
^FO0,480^AVN,80,71^FD醒矣哉肿到谯荏捱^FS
^FO0,560^AVN,80,71^FD噌忓溴骁栝觌祉铒^FS
^FO0,640^AVN,80,71^FD瘃蝮趱鲼       ?^FS
^XZ
```