

G1-G6 & C1-C2 & FN1 substitution string setting

Format of barcode data transmission

Prefix	Code name	Preamble	Code ID	Code length	Code data	Code ID	Postamble	Suffix
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Suffix string setting: The <enter> key is represented in different ASCII when it is applied by different OS. For a Windows/DOS OS, <enter> is represented as <CR><LF> (0x0D 0x0A); for an Apple MAC OS, <enter> is represented as <CR> (0x0D); for a Linux/Unix OS, <enter> is represented as <LF> (0x0A).

Prefix/Suffix string setting: & Preamble/Postamble string setting:

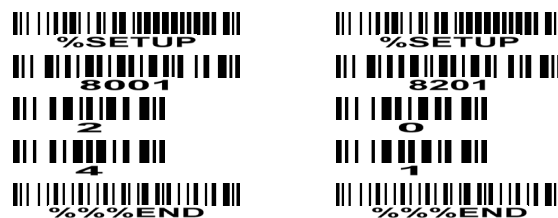
They are appended to the data automatically when a barcode is decoded.

Example: Add a symbol of "\$" as a prefix for all symbols.

Steps:

- 1) Scan **SETUP** and **Prefix string setting** barcode.
- 2) Use the ASCII table to find the value of \$→24.
- 3) Scan **2** and **4** from the barcode on the foldout back page.
- 4) Scan **END** barcode.

Scanning steps: Scan the following barcodes in order.



Insert G1/G2/G3/G4 string setting: The scanner offers 4 positions and 4 character strings to insert among the symbol.

Example: Set G1 string to be "AB".

Original code data	"1 2 3 4 5 6"
Output code data	"1 2 A B 3 4 5 6"

Steps:




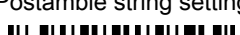
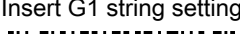
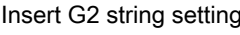
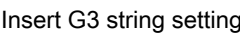
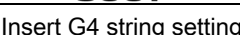
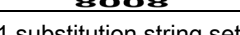


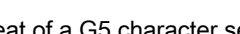



- 1) Scan **SETUP** and **Insert G1 string setting** barcode "8005".
- 2) Use the ASCII table to find the value of A→41, B→42.
- 3) Scan **4**, **1** and **4**, **2** from the barcode on the foldout back page.
- 4) Scan **END** barcode.
- 5) Refer to the chapter of G1-G4 string position & Code ID position.
- 6) Refer to the chapter of Hand-held scan & some global settings.



Testing barcode:



 %SETUP SETUP

Option bar code	Option	Alpha. entry
Prefix string setting  8001	0-22 characters None	00-FF ₁₆ 00*
Suffix string setting  8002	0-22 characters <ENTER>	00-FF ₁₆ 0D0A*
Preamble string setting  8003	0-22 characters None	00-FF ₁₆ 00*
Postamble string setting  8004	0-22 characters None	00-FF ₁₆ 00*
Insert G1 string setting  8005	0-22 characters None	00-FF ₁₆ 00*
Insert G2 string setting  8006	0-22 characters None	00-FF ₁₆ 00*
Insert G3 string setting  8007	0-22 characters None	00-FF ₁₆ 00*
Insert G4 string setting  8008	0-22 characters None	00-FF ₁₆ 00*
FN1 substitution string setting  8009	0-4 characters <SP>	00-FF ₁₆ 20*
Truncate leading G5 string setting  8010	A un-defined character 1-22 defined characters <0>	00 01-7F ₁₆ 30*
Repeat of a G5 character setting  8011	Once Defined times Un-defined times (All)	01* 01-22 FF
Truncate ending G6 string setting  8012	A un-defined character 1-22 defined characters <0>	00 01-7F ₁₆ 30*
Repeat of a G6 character setting  8013	Once Defined times Un-defined times (All)	01* 01-22 FF
Single character C1 replacement  8014	<0000>	0000* 0000-FFFF ₁₆
Single character C2 replacement  8015	<0000>	0000* 0000-FFFF ₁₆

 %%%END END

String transmission

Note: The information in this chapter is closely related to the chapter of String setting.

Format of barcode data transmission

Prefix	Code name	Preamble	Code ID	Code length	Code data	Code ID	Postamble	Suffix
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Prefix transmission: By setting Enable, prefix will be appended before the data transmitted.

Suffix transmission: By setting Enable, suffix will be appended after the data is transmitted.

Code name transmission: By setting Enable, code name will be transmitted before code data.

Preamble transmission: By setting Enable, preamble will be appended before the data transmitted.

Postamble transmission: By setting Enable, postamble will be appended after the data is transmitted.

Code ID transmission: Code ID can be transmitted in the format of either Proprietary ID or AIM ID. Refer to the chapter of Default setting for each barcode.

Code length transmission: The length of code data string can be transmitted before the code data when Enable is selected. The length is represented by a number with two digits.

Case conversion: The characters within code data or the whole output string can be set in either upper case or lower case.










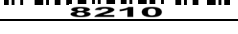
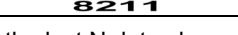
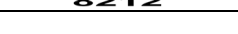
FN1 substitution transmission: The scanner supports a FN1 substitution feature for keyboard wedge, USB and RS-232 interface. The replacement string of FN1 can be chosen by user (see chapter of G1-G6 & FN1 substitution string setting).

All-non-printable-character string transmission with string setting: By setting enable, all string settings, e.g. Preamble transmission or Insert G1 string setting, are active for an all-non-printable-character string. Here a non-printable character means a character with ASCII value between 0x00 to 0x1F.

Transmit the first N data characters only: The scanner supports to only transmit the first N data characters of a barcode. The number of N can be set as a digit between 1 and 99.

Transmit the last N data characters only: The scanner supports to only transmit the last N data characters of a barcode. The number of N can be set as a digit between 1 and 99.

 %SETUP SETUP

Option bar code	Option	Alpha. entry
Prefix transmission  8201	Disable	00*
	Enable	01
Suffix transmission  8202	Disable	00
	Enable	01*
Code name transmission  8203	Disable	00*
	Enable	01
Preamble transmission  8204	Disable	00*
	Enable	01
Postamble transmission  8205	Disable	00*
	Enable	01
Code ID transmission  8206	Disable	00*
	Proprietary ID	01
	AIM ID	02
Code length transmission  8207	Disable	00*
	Enable	01
Case conversion  8208	Disable	00*
	Upper (data only)	01
	Lower (data only)	02
	Upper (whole string)	03
	Lower (whole string)	04
FN1 substitution transmission  8209	Disable	00*
	Keyboard wedge/USB	01
	RS-232	02
	Keyboard wedge/USB/RS-232	03
All-non-printable-character string transmission with string setting  8210	Disable	00*
	Enable	01
Transmit the first N data characters only  8211	All	99*
	01-99	01-99
Transmit the last N data characters only  8212	All	99*
	01-99	01-99

 %%%END END

Test Chart

UPC-A
6 59871 23231 9
UPC-E
0 232310 7
EAN-8
0123 4510
EAN-13
1 234567 891019
Code 39
0189-.\$AZ
Code 32
A908765439
Code 128
01AZ[+~*/]za98
Interleaved 2 of 5
0123456789
Industrial 2 of 5
(Default setting: Read disable)
0123456789
Matrix 2 of 5
9876543210
Code 93
01AZ+~/*az89
UCC/EAN 128
01AZ[]+~az54
Code 11
(Default setting: Read disable)
123456789-0

MSI/Plessey

(Default setting: Read disable)



0123456789

UK/Plessey



01ABEF89

ISBN/ISSN



9 780194 315104

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GS1 DataBar Limited



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GS1 DataBar Expanded



Ab_09+yZ

ASCII Table

H L	for keyboard wedge		for RS-232	
	0	1	0	1
0	Null		NUL	DLE
1	Up	F1	SOH	DC1
2	Down	F2	STX	DC2
3	Left	F3	ETX	DC3
4	Right	F4	EOT	DC4
5	PgUp	F5	ENQ	NAK
6	PgDn	F6	ACK	SYN
7		F7	BEL	ETB
8	Bs	F8	BS	CAN
9	Tab	F9	HT	EM
A		F10	LF	SUB
B	Home	Esc	VT	ESC
C	End	F11	FF	FS
D	Enter	F12	CR	GS
E	Insert	Ctrl+	SO	RS
F	Delete	Alt+	SI	US

Notes: The 2nd and the 3rd columns above are used for keyboard wedge only.

H L	2	3	4	5	6	7
0	SP	0	@	P	`	p
1	!	1	A	Q	a	q
2	“	2	B	R	b	r
3	#	3	C	S	c	s
4	\$	4	D	T	d	t
5	%	5	E	U	e	u
6	&	6	F	V	f	v
7	‘	7	G	W	g	w
8	(	8	H	X	h	x
9	)	9	I	Y	i	y
A	*	:	J	Z	j	z
B	+	;	K	[	k	{
C	,	<	L	\	l	|
D	-	=	M	]	m	}
E	.	>	N	^	n	~
F	/	?	O	_	o	DEL

Example: ASCII “A” = “41”.

Barcode representing non-printable character

Notes to make the following barcode:

1. According to different barcode printing software, the method of printing following barcode is different.
2. If using CODESOFT software, firstly read the information through “Help→Index→Code128→Special input syntax”. Also refer to ASCII table. For example, if we wish to make “F1” barcode, select “code128”, then select “CODE A” type, and input “{DOC1}” as data.



Up ↑



Down ↓



Left ←



Right →



Page Up



Page Down



Backspace



Tab



Home



End



Enter



Insert



Delete



F1



F2



F3



F4



F5



F6



F7



F8



F9



F10



Esc



F11



F12

Configuration alphanumeric entry barcode

