

**WelchAllyn®**  
**SCANTEAM® 2380 WAND**



**Programming Menu**

**Please Note:** The programming features on each menu page are not supported in all models and software revisions of the SCANTEAM 2380. Notations are included if the feature is available only in certain models. Contact your Welch Allyn Sales Coordinator for the revision/model to fit your needs.

The SAMPLE BAR CODES page (near the end of the programming menu) contains bar code symbols that you may use to verify that you have programmed your SCANTEAM 2380 correctly.

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**SHOW FIRMWARE REVISION LEVEL**

Scan the bar code below to display the revision level of the SCANTEAM 2380 firmware.

*For example:* After scanning the Firmware Revision Level bar code, "(C) WA93C" is output to the terminal/host device. The "C" at the end indicates the firmware is at revision level C.

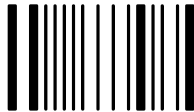


**Firmware Revision Level**

**SHOW SOFTWARE NUMBER**

Scan the bar code below to display the SCANTEAM 2380 software number. The resulting information will show if there is a special or custom download program resident in the scanner.

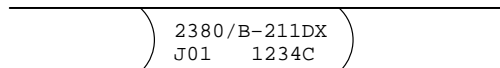
*For example:* After scanning the Software Number bar code, "33961001" is output to the terminal/host device. That number is the software number.



**Software Number**

**SCANNER LABELING**

The drawing below shows the serial number label that is attached to the scanner cord. The top number shows the SCANTEAM 2380 model number. This may also be a special 6 digit part number (custom orders). The serial number is on the second line. The "C" after the serial number indicates that the firmware Mask revision is C.



**USER'S  
NOTES**

SCANTEAM 2380 Programming Menu

## SCANTEAM 2380/PM Programming Menu

### USE THIS PAGE

■ As a general overview of the programming menu. The programming menu consists of two basic components as shown below.

**Programming Menu**

**CODE SELECTION II (RETAIL)**

**USE THIS PAGE**

■ To select the pre-programmed selection(s) (\*) by using the scanning DEFAULT symbol.

■ To enable or disable listed code selections.

**scan**

**ENTER**

**scan**

**DEFAULT**

**scan**

**EXIT**

	scan	variables	scan	scan
UPC ID = c (HEX 43)	I	Version A A *Yes/No Version D(2) B No* Version 4(3) C *Yes/No Version E 1 D *Yes/No Check Digit Xmit E *Yes/No Number System Xmit F *Yes/No Version E Expand G Yes/No* 2-Digit Addenda H *Yes/No 5-Digit Addenda I *Yes/No		
EAN ID = d (HEX 64)	II	EAN/JAN 13 A *Yes/No EAN/JAN 8 B *Yes/No Check Digit Xmit C *Yes/No 2-Digit Addenda D *Yes/No 5-Digit Addenda E *Yes/No		
UPC & EAN Addenda Req'd.	III	Enable		Yes/No*
MSI ID = g (HEX 67)	IV	Enable Yes/No* Minimum Length A *04-Max Maximum Length B Min-48)		
Plessey ID = h (HEX 6E)	V	Enable Yes/No* Minimum Length A *04-Max Maximum Length B Min-48)		

**Notes:**  
 (1) \* Designates DEFAULT selections.  
 (2) UPC Version D is not supported at this time.

SAMPLE MENU PAGE

**Programming Menu**

**USE THIS PAGE**

■ To combine with the adjoining menu pages to program the unit.

■ The bar codes on this page correspond to symbols in shaded areas on adjoining menu pages. SCAN these bar codes in the sequence indicated on this page to program desired selections and variables.

**BAR CODE CHART**

ROMAN NUMERALS	LETTERS	DIGITS	OTHERS
I	A	0 (YES)	ESCAPE
II	B	1 (NO)	DEFAULT
III	C	2	EXIT
IV	D	3	
V	E	4	
VI	F	5	
VII	G	6	
VIII	H	7	
IX	I	8	
X	J	9	
XI			
XII			
XIII			
XIV			
XV			
XVI			
XVII			
XVIII			
XIX			
XX			

BAR CODE CHART

### MENU PAGE

- Each menu page represents one section of the programming menu. Use individual menu pages in combination with the bar code chart on the back page foldout to program the decoder.
- **USE THIS PAGE** – is a summary of the programming options (parameters) of each menu page.
- **ENTER** – Each menu page has its own unique ENTER bar code; scan this bar code to activate desired menu page.
- **DEFAULT** – Most menu pages have a DEFAULT bar code which allows the user to independently default menu pages to asterisk (\*) values without affecting, in any way, the rest of the programming menu. Default values can be easily selected from the desired menu pages by scanning the bar code sequence ENTER, DEFAULT, EXIT. Individual defaults for a specific selection can be made by scanning ENTER, ROMAN NUMERAL, DEFAULT, EXIT.
- **EXIT** – To move from one menu page to another, scan the EXIT bar code. This bar code must be scanned to end programming selection on each menu page before beginning to program on a different menu page.
- **SELECTIONS/VARIABLES** – Lists all of the options available on each menu page. Following each option are symbols in shaded areas. These symbols correspond to bar codes on the adjoining bar code chart.
- **NOTES** – are provided to call out any unusual situations and/or refer you to necessary information or examples elsewhere in the menu or manual.

### MENU PAGE FACING (Not Shown)

- The page facing the menu is often used to supplement or clarify the material presented on the front of each menu page. The information and examples found here are specific to the individual menu page and contain, in some cases, charts and diagrams that must be used in order to determine the correct programming sequence.

### BAR CODE DATA CHART

- The bar codes on this chart are assigned to a ROMAN NUMERAL, DIGIT, LETTER OR YES/NO symbol. These bar codes correspond to the symbols in shaded areas on the menu pages and are scanned in various combinations to enter programming sequences to the decoder. Bar codes on this page are meaningless unless an ENTER bar code from one of the menu pages is first scanned. When an ENTER bar code is scanned, the bar code chart becomes specific to that menu page and remains so until the EXIT bar code is scanned or another menu page is selected.

### ESCAPE

- Use this bar code to cancel current programming sequence. All parameters remain as they were. Scan ESCAPE.

## TERMINAL SELECTION

SCANTEAM 2380 Information and Examples

### **DIRECT CONNECT ENABLE**

When enabled, this programming selection allows the wand scanner to replace the keyboard. The scanner will respond to the PC keyboard initialization commands upon power up. This selection is for an AT keyboard *only* with a terminal ID of 03.

### **LOW POWER**

When enabled, this programming selection puts the wand scanner in a low power mode. The LED will be pulsed to conserve power and will “wake up” when a transition from black to white is seen.

# TERMINAL SELECTION

**USE THIS PAGE**

- To select the terminal type.
- To enable the AT Direct Connect feature.
- To enable the Low Power feature.



ENTER

scan	terminal	selection	scan
I	IBM	PC/XT	01
		PS/2 model 30	02
		PC/AT, PS/2 50-80 PS/2 30-286	03
		3196/97, 3476/77 3191/92, 3471/72 (102 Keyboards)	07
		3196/97, 3476/77 (122 Keyboards)	08
		3191/92, 3471/72 (122 Keyboards)	09
	OLIVETTI	M19, M24, M28	01
		M200, M240, M250, M290, M380, P500	03
	TELEX	078/079/080/191	09
	DEC	VT220, 320, 340 VT400 Series through V1.4	04
VT400 Series V2.0 and above (5)		05	
II	AT DIRECT CONNECT	Enable (3, 4)	Yes/No*
III	LOW POWER	Enable (4)	Yes/No*



EXIT

**Notes:**

- (1) For proper installation to selected terminal the proper 2380 "Y" interface cable must be used. Cable part numbers are listed on the facing page.
- (2) No default parameters are programmed for this page.
- (3) Only for a terminal ID of 03.
- (4) Available for Mask C **only**.
- (5) Terminal ID of 05 not supported by standard 2380 software. Must order via special 6 digit part number. Contact your Sales Representative for ordering information.

# OUTPUT PARAMETERS & FORMAT SELECTIONS

## PREAMBLE/POSTAMBLE

Preambles and Postambles are characters added by the 2380 to scanned bar code data. These characters are sent with the bar code data to the terminal. Use the Hex-ASCII table below to find the alpha-numeric code to be used for programming a particular Preamble or Postamble.

**NOTE:** The 2380 will translate characters 00-1F (keyboard function codes) into keyboard "function keys." The assigned translation is dependent upon the terminal being used. Refer to the 2380 Technical Manual to determine the assigned translation.

## PROGRAMMING EXAMPLE

To program a Carriage Return (CR) Postamble:

**Scan: Enter, II, A, 0, D, EXIT.**

**NOTE:** To clear Pre/Postamble Scan: **Enter, I (or II), Default,** and then **EXIT.**

## HEX - ASCII CHART

NUL 00	DLE 10	SP 20	0 30	@ 40	P 50	' 60	p 70
SOH 01	DC1 11	! 21	1 31	A 41	Q 51	a 61	q 71
STX 02	DC2 12	" 22	2 32	B 42	R 52	b 62	r 72
ETX 03	DC3 13	# 23	3 33	C 43	S 53	c 63	s 73
EOT 04	DC4 14	\$ 24	4 34	D 44	T 54	d 64	t 74
ENQ 05	NAK 15	% 25	5 35	E 45	U 55	e 65	u 75
ACK 06	SYN 16	& 26	6 36	F 46	V 56	f 66	v 76
BEL 07	ETB 17	' 27	7 37	G 47	W 57	g 67	w 77
BS 08	CAN 18	( 28	8 38	H 48	X 58	h 68	x 78
HT 09	EM 19	) 29	9 39	I 49	Y 59	i 69	y 79
LF 0A	SUB 1A	* 2A	: 3A	J 4A	Z 5A	j 6A	z 7A
VT 0B	ESC 1B	+ 2B	; 3B	K 4B	[ 5B	k 6B	{ 7B
FF 0C	FS 1C	, 2C	< 3C	L 4C	\ 5C	l 6C	7C
CR 0D	GS 1D	- 2D	= 3D	M 4D	] 5D	m 6D	} 7D
SO 0E	RS 1E	. 2E	> 3E	N 4E	^ 5E	n 6E	~ 7E
SI 0F	US 1F	/ 2F	? 3F	O 4F	_ 5F	o 6F	DEL 7F

## CODE IDENTIFICATION

**YES** - Adds a lower case letter preamble to the bar code data sent to the terminal to denote the bar code symbology scanned. This preamble will follow any preamble programmed in I.

**NO** - Does not add lower case preamble.

Lower Case Preamble	Symbology	Lower Case Preamble	Symbology
a	Codabar	h	Code 11
b	Code 3 of 9	i	Code 93
c	UPC	j	Code 128
d	EAN	k	AMES
e	I 2 of 5	m	Matrix 2 of 5
f	2 of 5	n	Plessey
g	MSI		

## FUNCTION CODES

**YES** - The 2380 translates characters 00-1F (keyboard function codes) that may be contained within bar code data into "function keys." These function keys will be sent to the terminal along with the other characters in the bar code data.

**NO** - The 2380 does not translate characters 00-1F into "function keys." Instead, characters 00-1F are stripped from the bar code data.

**NOTE:** Keyboard function codes that are programmed in the postamble and preamble remain active at all times.

## KEYBOARD TYPE

(If terminal is not listed, then no secondary type keyboard is supported.)

Terminal	Primary Type	Secondary Type	Tertiary* Type	Quaternary Type
IBM PC, PC/XT	XT	CAPS LOCK	CTRL +	SHIFT LOCK
IBM PS/2 (50-80)	NORM	CAPS LOCK	CTRL +	SHIFT LOCK
DEC	NORM	CTRL +		

\* ASCII function codes (00-1F) are sent to the terminal via a "CTRL+" sequence (i.e. 'CR'=CTRL+M)

## INTERCHARACTER DELAY INTERFUNCTION DELAY INTERMESSAGE DELAY

**Intercharacter Delay** - When enabled, an intercharacter delay of between 01 and 99 (x5) milliseconds can be programmed. Incoming messages may not have an intercharacter delay greater than (10 byte time at the programmed baud rate).

**Interfunction Delay** - The time delay between "function key" characters output by the 2380.

**EXAMPLE: 2380 programmed as follows:**

Intercharacter delay=10ms Interfunction delay=50ms Postamble=field exit and transmit

When a bar code symbol containing the characters 123 is scanned, the 2380 will output to the terminal as follows:

1 10ms 2 10ms 3 10ms Field Exit 50ms Transmit  
 delay delay delay delay delay

**Intermessage Delay** - The time delay between bar code data output by the 2380.

**Beeper** - This programming selection provides control of the Beeper. When "Beep on Reset" is enabled, the Beeper will beep each time the system is reset. If "Beep on Good Read" is enabled, the Beeper will beep following a scan when the data has been accepted by the Host.

**Append Buffer** - Controls state of Append Buffer. This buffer must be enabled if Code 3 of 9 symbology with Append Option has been selected.



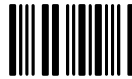
# OUTPUT PARAMETERS & FORMAT SELECTION

**USE THIS PAGE**

- To select the pre-programmed asterisk (\*) values by scanning DEFAULT symbol.
- To add preambles and/or postambles to the bar code.
- To select function transmit enable.
- To select keyboard type.
- To set intercharacter, interfunction, and intermessage delays to specific values.
- To control scanning indicators or enable function records feature.
- To enable the Append Buffer when Code 3 of 9 with append option is enabled.



ENTER



DEFAULT

selections	scan	variables	scan	scan
PREAMBLE (3) (up to 5 chars max)	I	Code ID	A	
		Other ASCII	B	00-7F None*
POSTAMBLE (4) (up to 5 chars max)	II	ASCII values	A	00-7F None*
FUNCTION XMIT	III	Enable		*Yes/No
KEYBOARD TYPE	IV	Primary		01*
		Secondary		02
		Tertiary		03
		Quaternary		04
INTERCHARACTER DELAY	V	x5msecs		*00-99
INTERFUNCTION DELAY	VI	x5msecs		*00-99
INTERMESSAGE DELAY	VII	x5msecs		*00-99
BEEPER (5, 6)	VIII	Beep on Reset	A	*Yes/No
		Beep on Good Read (7)	B	*Yes/No
APPEND BUFFER	IX			*Yes/No
FUNCTION RECORDS (8)	X			*Yes/No

**Notes:**

- (1) \* Designates DEFAULT selections.
- (2) See facing page for more information and examples.
- (3) To delete preambles Scan I then either another selection (roman numeral) or Exit.
- (4) To delete postambles Scan II then either another selection (roman numeral) or Exit.
- (5) Default is NO if Beep PC is enabled.
- (6) This programming feature has been changed for Mask C. Refer to the cable labeling to determine which firmware you have.
- (7) This programming feature is not supported in all models/software revisions.
- (8) Available for Mask C **only**.



EXIT

## COMM 1

SCANTEAM 2380 Information and Examples

### INTERNATIONAL KEYBOARDS

The unit aligns the keyboard layout based on the International Keyboard selected here.

### INTERMEC COMPATIBILITY

**YES** – Allows the unit to be compatible with Intermec keyboard function codes.

**NO** – The default keyboard function codes that are in the preamble and postamble remain active at all times.

**USE THIS PAGE**

- To select foreign keyboards.
- To enable Intermec compatibility



ENTER



DEFAULT

selections	scan	variables	scan	scan
INTERNATIONAL KEYBOARDS (3)	I	France		A
		Germany		B
		Spain		C
		Switzerland		D
		Italy		E
		USA		F*
		Sweden (4)		G
		Canada (5)		H
		Portugal (5)		I
INTERMEC COMPATIBILITY (3)	II			Yes/No*



EXIT

**Notes:**

- (1) \* Designates DEFAULT selections.
- (2) See facing page for more information and examples.
- (3) This programming feature is supported for Mask B and above, and *only* for an AT or VT Series keyboard.
- (4) Special download software required.
- (5) Only supported for VT Series keyboards.

## SCANCODE SELECTION

SCANTEAM 2380 Information and Examples

### **K2 SCANCODE CAPABILITY**

Reconfigures the 2380 to use K2 (SCANTEAM 2300) compatible scancodes. If other Welch Allyn wedge products are being used or are planned for future use, it is strongly recommended to program this selection for "YES" and use the function codes found in the Keyboard Function Codes Table 2 and Table 3 in the Appendix A.8 of the 2380 Technical Manual. Otherwise, the 2380 will be programmed to use function codes in Keyboard Function Codes Table 1 in the Appendix A.8 of the 2380 Technical Manual.

### **NEW KEYBOARD SCANCODE TABLE**

If the SCANTEAM 2380 has been downloaded to contain another scancode table, programming this selection to "YES" will cause the new scancode table to be used, rather than the normal scancode table. This menu selection is applicable for use with terminals not equipped with standard manufacturers' keyboards (that is, foreign keyboards).

### **BEEP PC**

When programmed on, beeps the PC on a good read.

### **NUMERIC KEYPAD**

When "main keyboard numbers" is selected, numbers will be sent to the host terminal as if keyed in from the main keyboard. If "numeric keypad" is enabled, numbers will be sent as if keyed in from the numeric keypad.

### **RX INTERRUPT**

Occasionally, keyboard activity before a bar code is scanned will cause the wand to beep intermittently or turn off. This selection will prevent this from happening.

# SCANCODE SELECTION

**USE THIS PAGE (3)**

- To select the pre-programmed asterisk (\*) values by scanning DEFAULT symbol.
- To reconfigure the 2380 to use the 2380 Function Codes.  
(Applies only to IBM XT, AT, and PS/2's.)  
Refer to Appendix A.8 in 2380 Technical Manual for two options.
- To reconfigure the 2380 to use a new Scancode Table. Only applicable to customers who request new Scancode Table (that is, foreign keyboards).



selections	scan	variables	scan	scan
K2 SCANCODE CAPABILITY	IV			Yes/No*
NEW KEYBOARD SCANCODE TABLE	V			Yes/No*
BEEP PC (4, 6)	VI			Yes/No*
NUMERIC KEYPAD (5, 6)	VII	Main Keyboard Numbers		A*
		Numeric Keypad		B
RX INTERRUPT (6, 7, 8)	VIII			Yes/No*

**Notes:**

- (1) \* Designates DEFAULT selections.
- (2) See facing page for more information and examples.
- (3) This page does not apply to SCANTEAM 2380's with item numbers 022410, 022537, and 022538.
- (4) "Beep PC" must be disabled ("No") when "Beep on Reset" (OUTPUT PARAMETERS page) is enabled.
- (5) The master DEFAULT bar code on this page does not return these parameters to their default setting.
- (6) This programming feature is not supported in all models/software revisions.
- (7) RX Interrupt **must** be enabled before attempting software upgrades. To download new software, enable RX Interrupt, power cycle scanner, then download.
- (8) Standard 2380 software prior to software revision 33961091 is defaulted ON. Later software revisions are defaulted OFF.



# SYMBOLGY SELECTION INDUSTRIAL

SCANTEAM 2380 Information and Examples

## INDUSTRIAL CODE OUTPUT FORMATS

CODABAR	aSX ... XS
Code 3 of 9	bSXX .. XXCS
INTERLEAVED 2 of 5	eXX ... XXC
2 of 5	fXX .... XX
MSI	gXX ... XX
Code 11	hXX ... XXCC
Code 93	iXX .... XX
Code 128	jXX .... XX

**Where:** a = Codabar Code ID  
 b = Code 3 of 9 ID  
 e = Interleaved 2 of 5 ID  
 f = 2 of 5 ID  
 g = MSI (Plessey)  
 h = Code 11 ID  
 i = Code 93 ID  
 j = Code 128 ID  
 S = Start/Stop Character  
 X = Data Character  
 C = Checksum Character

**NOTE:** Proper parameters must be turned on for code identification. Start/stop and Checksum characters to be transmitted. **For maximum data security, disable the Codes not used.**

## FULL ASCII CODE 3 OF 9 CHARACTERS

If full ASCII Code 3 of 9 decoding is enabled, certain character pairs within the bar code symbol will be interpreted as a single character. For example: \$V will be decoded as the ASCII character SYN and /C will be decoded as the ASCII character #.

## FULL ASCII CODE 3 OF 9 CHART

NUL	%U	DLE	\$P	SP	SPACE	0	0	@	%V	P	P	'	%W	p	+P
SOH	\$A	DC1	\$Q	!	/A	1	1	A	A	Q	Q	a	+A	q	+Q
STX	\$B	DC2	\$R	"	/B	2	2	B	B	R	R	b	+B	r	+R
ETX	\$C	DC3	\$S	#	/C	3	3	C	C	S	S	c	+C	s	+S
EOT	\$D	DC4	\$T	\$	/D	4	4	D	D	T	T	d	+D	t	+T
ENQ	\$E	NAK	\$U	%	/E	5	5	E	E	U	U	e	+E	u	+U
ACK	\$F	SYN	\$V	&	/F	6	6	F	F	V	V	f	+F	v	+V
BEL	\$G	ETB	\$W	'	/G	7	7	G	G	W	W	g	+G	w	+W
BS	\$H	CAN	\$X	(	/H	8	8	H	H	X	X	h	+H	x	+X
HT	\$I	EM	\$Y	)	/I	9	9	I	I	Y	Y	i	+I	y	+Y
LF	\$J	SUB	\$Z	*	/J	:	/Z	J	J	Z	Z	j	+J	z	+Z
VT	\$K	ESC	%A	+	/K	;	%F	K	K	[	%K	k	+K	{	%P
FF	\$L	FS	%B	,	/L	<	%G	L	L	\	%L	l	+L		%Q
CR	\$M	GS	%C	-	/M	=	%H	M	M	]	%M	m	+M	}	%R
SO	\$N	RS	%D	.	/N	>	%I	N	N	^	%N	n	+N	~	%S
SI	\$O	US	%E	/O	/	?	%J	O	O	_	%O	o	+O	DEL	%T%X%Y%Z

Character pairs /M and /N decode as a minus sign and period respectively.  
 Character pairs /P through /Y decode as 0 through 9.

## MIN/MAX LENGTH

These variables are used to require that bar code symbols contain a character count within a certain range. Bar codes with counts outside this range will not be decoded.

**EXAMPLE:** Decode only those bar codes with a count of 9–20 characters.  
 Min. length = 09  
 Max. length = 20

**EXAMPLE:** Decode only those bar codes with a count of 15 characters.  
 Min. length = 15  
 Max. length = 15

# SYMBOLGY SELECTION (CODES)

**USE THIS PAGE**

- To select the pre-programmed asterisk (\*) values by scanning DEFAULT symbol.
- To specify desired bar code symbologies.
- To select symbology options.



selections		scan	variables	scan	scan
CODABAR (ID = a)	<b>I</b>		Enable		*Yes/No
			Minimum Length	A	*01-MAX
			Maximum Length	B	Min-48*
			S/S Xmit	C	*Yes/No
CODE 39 (ID = b)	<b>II</b>		Enable		*Yes/No
			Minimum Length	A	*00-MAX
			Maximum Length	B	Min-48*
			S/S Xmit	C	Yes/No*
			Check Char. Req'd	D	Yes/No*
			Xmit Check Char.	E	Yes/No*
			Full ASCII	F	*Yes/No
UPC (ID = c)	<b>III</b>		Version A	A	*Yes/No
			Version E	B	*Yes/No
			(Version E Expand)	C	Yes/No*
			Number System Xmit	D	*Yes/No
			Check Digit Xmit	E	Yes/No*
EAN (ID = d)	<b>IV</b>		EAN/JAN 13	A	*Yes/No
			EAN/JAN 8	B	*Yes/No
UPC and/or EAN			2-Digit Addenda	F	*Yes/No
			5-Digit Addenda	G	*Yes/No
INTERLEAVED (ID = e) 2 OF 5	<b>V</b>		Enable		*Yes/No
			Minimum Length (2)	A	02-MAX
			Maximum Length	B	Min-64*
			6, 14 & 16 Only	C	Yes/No*
			Check Digit Req'd	D	Yes/No*
CODE 2 OF 5 (ID = f)	<b>VI</b>		Enable		*Yes/No
			Minimum Length (2)	A	02-MAX
			Maximum Length	B	Min-64*
MSI (ID = g)	<b>VII</b>		Enable		*Yes/No
			Minimum Length	A	*04-MAX
			Maximum Length	B	Min-48*
CODE 93 (ID = i)	<b>VIII</b>		Enable		*Yes/No
			Minimum Length	A	*00-MAX
			Maximum Length	B	Min-60*
CODE 128 (ID = j)	<b>IX</b>		Enable (All Modes)		*Yes/No
			Mode A	A	*Yes/No
			Mode B	B	*Yes/No
			Mode C	C	*Yes/No
			Minimum Length	D	*00-Max
			Maximum Length	E	Min-80*
CODE 11 (3) (ID = h)	<b>X</b>		Enable		*Yes/No
			2 Check Digits (N=1)	A	Yes/No*
			Xmit Check Char.	B	Yes/No*
			Minimum Length	C	*01-MAX
			Maximum Length	D	Min-48*

**Notes:**

- (1) \* Designates DEFAULT selections.
- (2) The DEFAULT Minimum Length for 2/5 codes is 4 Characters.
- (3) This programming feature is not supported in all models/software revisions.

# SYMBOLGY SELECTION RETAIL

SCANTEAM 2380 Information and Examples

## RETAIL CODE OUTPUT FORMATS

### Non-Zero Suppressed UPC-A and UPC-E Output Format

UPC-A	cXXXXXXXXXXC
UPC-A with 2 digit supplemental	cXXXXXXXXXXC-SS
UPC-A with 5 digit supplemental	cXXXXXXXXXXC-SSSSS
UPC-E	cXXXXXXXXXXC
UPC-E with 2 digit supplemental	cXXXXXXXXXXC-SS
UPC-E with 5 digit supplemental	cXXXXXXXXXXC-SSSSS

### Zero Suppressed UPC-A and UPC-E Output Format

UPC-A	cXXXXXXXXXXC
UPC-A with 2 digit supplemental	cXXXXXXXXXXC-SS
UPC-A with 5 digit supplemental	cXXXXXXXXXXC-SSSSS
UPC-E	cNXXXXXX
UPC-E with 2 digit supplemental	cNXXXXXX-SS
UPC-E with 5 digit supplemental	cNXXXXXX-SSSSS

### EAN/JAN Output Format

EAN/JAN-13	dffXXXXXXXXXXC
EAN/JAN-13 with 2 digit supplemental	dffXXXXXXXXXX-SS
EAN/JAN-13 with 5 digit supplemental	dffXXXXXXXXXX-SSSSS
EAN/JAN-8	dffXXXXXC
EAN/JAN-8 with 2 digit supplemental	dffXXXXXC-SS
EAN/JAN-8 with 5 digit supplemental	dffXXXXXC-SSSSS

**Where:** c = UPC Code ID  
d = EAN/JAN Code ID  
N = Number System Character  
f = Identification Flag  
X = Data Character  
C = Checksum Character  
- = Space  
S = Supplemental Character

**NOTE:** Proper parameters must be turned on for code identification, number system, checksum and supplemental characters to be transmitted. **For maximum data security, disable the Codes not used.**

## UPC/EAN LENGTH CHART

selections	Basic Length	W/out Ck. Digit	W/out # Sys. Digit	W/2 Digit Addendum	W/5 Digit Addendum	TOTAL
UPCA	12	-01	-01	+02	+05	
UPCE [w/ 0's suppressed]	8	-01	-01	+02	+05	
UPCE [expanded]	12	-01	-01	+02	+05	
UPCD1	14	-01	-01	+02	+05	
UPCD2	20	-02	-01	+02	+05	
UPCD3	24	-02	-01	+02	+05	
UPCD4	28	-03	-01	+02	+05	
UPCD5	32	-03	-01	+02	+05	
EAN8	8	-01	N/A	+02	+05	
EAN13	13	-01	N/A	+02	+05	



# SYMBOLGY SELECTION (CODES)

**USE THIS PAGE**

- To select the pre-programmed asterisk (\*) values by scanning DEFAULT symbol.
- To specify desired bar code symbologies.
- To select symbology options.



selections		scan	variables	scan	scan
CODABAR (ID = a)	<b>I</b>		Enable		*Yes/No
			Minimum Length	A	*01-MAX
			Maximum Length	B	Min-48*
			S/S Xmit	C	*Yes/No
CODE 39 (ID = b)	<b>II</b>		Enable		*Yes/No
			Minimum Length	A	*00-MAX
			Maximum Length	B	Min-48*
			S/S Xmit	C	Yes/No*
			Check Char. Req'd	D	Yes/No*
			Xmit Check Char.	E	Yes/No*
			Full ASCII	F	*Yes/No
UPC (ID = c)	<b>III</b>		Version A	A	*Yes/No
			Version E	B	*Yes/No
			(Version E Expand)	C	Yes/No*
			Number System Xmit	D	*Yes/No
			Check Digit Xmit	E	Yes/No*
EAN (ID = d)	<b>IV</b>		EAN/JAN 13	A	*Yes/No
			EAN/JAN 8	B	*Yes/No
UPC and/or EAN			2-Digit Addenda	F	*Yes/No
			5-Digit Addenda	G	*Yes/No
INTERLEAVED (ID = e) 2 OF 5	<b>V</b>		Enable		*Yes/No
			Minimum Length (2)	A	02-MAX
			Maximum Length	B	Min-64*
			6, 14 & 16 Only	C	Yes/No*
			Check Digit Req'd	D	Yes/No*
CODE 2 OF 5 (ID = f)	<b>VI</b>		Enable		*Yes/No
			Minimum Length (2)	A	02-MAX
			Maximum Length	B	Min-64*
MSI (ID = g)	<b>VII</b>		Enable		*Yes/No
			Minimum Length	A	*04-MAX
			Maximum Length	B	Min-48*
CODE 93 (ID = i)	<b>VIII</b>		Enable		*Yes/No
			Minimum Length	A	*00-MAX
			Maximum Length	B	Min-60*
CODE 128 (ID = j)	<b>IX</b>		Enable (All Modes)		*Yes/No
			Mode A	A	*Yes/No
			Mode B	B	*Yes/No
			Mode C	C	*Yes/No
			Minimum Length	D	*00-Max
			Maximum Length	E	Min-80*
CODE 11 (3) (ID = h)	<b>X</b>		Enable		*Yes/No
			2 Check Digits (N=1)	A	Yes/No*
			Xmit Check Char.	B	Yes/No*
			Minimum Length	C	*01-MAX
			Maximum Length	D	Min-48*

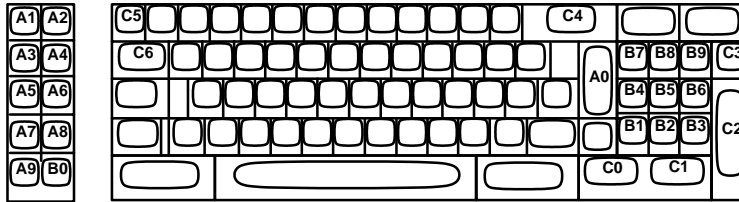
**Notes:**

- (1) \* Designates DEFAULT selections.
- (2) The DEFAULT Minimum Length for 2/5 codes is 4 Characters.
- (3) This programming feature is not supported in all models/software revisions.

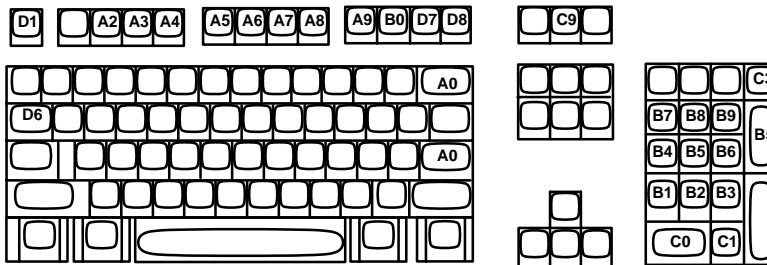
**USER'S  
NOTES**

SCANTEAM 2380 Programming Menu

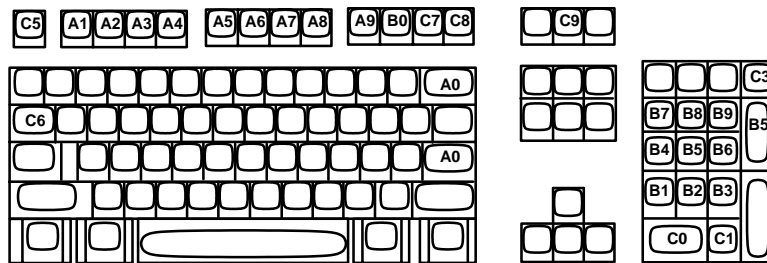
# KEYBOARD LAYOUTS Continued



IBM XT Keyboard



IBM PC/AT Keyboard



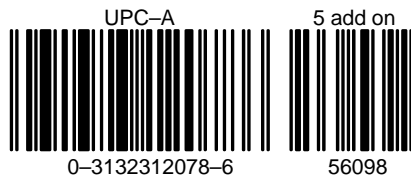
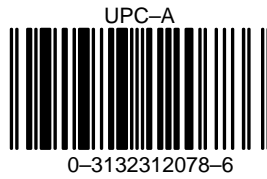
IBM PS2-30 Keyboard

**USER'S  
NOTES**

SCANTEAM 2380 Programming Menu

# SAMPLE BAR CODES

■ This page contains bar code symbols in some of the most commonly used symbologies. You may use these codes to test that your system is properly programmed for a particular symbology.



**USER'S  
NOTES**

SCANTEAM 2380 Programming Menu

SCANTEAM 2380 Programming Menu

**USER'S  
NOTES**

# BAR CODE CHART

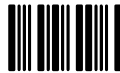
## USE THIS PAGE

- In combination with the adjoining menu pages to program the 2380.
- The bar codes on this page correspond to symbols in shaded areas on adjoining menu pages. SCAN these bar codes in the sequence indicated on menu page to program desired selections and variables.

### ROMAN NUMERALS



I



II



III



IV



V



VI



VII



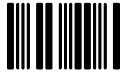
VIII



IX



X



XI



XII



XIII



XIV



XV



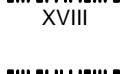
XVI



XVII



XVIII



XIX



XX



XX

### LETTERS



A



B



C



D



E



F



G



H



I



J



J

### DIGITS



0 (YES)



1 (NO)



2



3



4



5



6



7



8



9



9

### OTHERS



ESCAPE



DEFAULT



EXIT



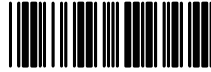
CODE 3 OF 9 SYMBOLS  
FUNCTION RECORD CODES

USE THIS PAGE

■ For transmitting functions using function record codes.



/C00



/C01



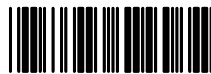
/C02



/C03



/C04



/C05



/C06



/C07



/C08



/C09



/C10



/C11



/C12



/C13



/C14



/C15



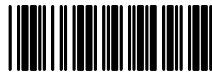
/C16



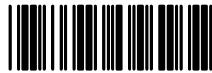
/C17



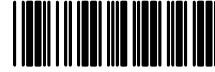
/C18



/C19



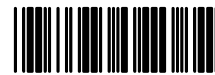
/C20



/C21



/C22



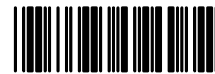
/C23



/C24



/C25



/C26



/C27



/C28



/C29



/C30



/C31



2380/PM Rev K

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