

The background is a dark gray with several thin, light gray concentric circles in the upper right quadrant. A bright, glowing white arc is positioned at the bottom of the page.

MK-5800BT

Bluetooth Area Imager Barcode Scanner Configuration Guide

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1 Getting Started

1.1 About This Guide

This guide provides programming instructions for the MK-5800BT 2D Barcoder Reader. Users can configure the MK-5800BT 2D Barcoder Reader by scanning the programming barcodes included in this manual.

1.2 Factory Defaults

Scanning the following barcode can restore the MK-5800BT to the factory defaults.



0D0100.

Restore All Factory Defaults

1.3 Pairing Cradle

1. Scan "setting configuration"



2. Scan "open SPP "



3. Scan "disconnect previous pairing"



4. Scan "Cradle bottom BT address barcode"

5. Scan "Repairing"



6. Scan "Save BT SPP setting"



7. Scan " End BT SPP setting "



Apple device needs enable transmission, other need to disable.



Enable iOS transmission



Disable iOS transmission

1.4 Pairing Smart Phone , Table PC

1. Scan "setting configuration"



2. Scan " Open HID connection "



3. Scan " Disconnection previous pairing "



4. Scan " BT visible setting "



5. Scan " Save BT HID configuration "



6. Scan "End BT HID configuration "



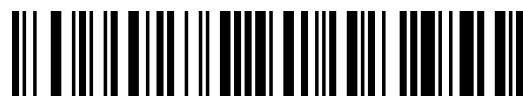
Apple device needs enable transmission, others need to disable



Enable iOS transmission



Disable iOS transmission



iPhone/iPad Touch Keyboard.

Enable BT function in iPad or smart phone and then serach BT (NVC_MD_CS45) to pair.

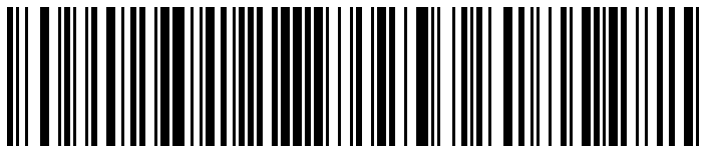
2 Cradle Communication Interfaces

2.1 Cradle USB HID -KB



USB HID-KB (Default)

2.2 Cradle USB COM Port Emulation



USB COM Port Emulation

2.3 USB Country Keyboard Types

Keyboard layouts vary from country to country. The default setting is 1-U.S. keyboard.



USA



Germany



Italy



France



Spain



Japan



Czech



Denmark



Belgium



Finland



Dutch



Hungary



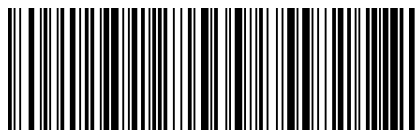
Finlan

2.4 Convert Case

Scan the appropriate barcode below to convert barcode data to your desired case.



No Case Conversion (Default)



Convert All To Upper Case



Convert All To Lower Case

Example: When the **Convert All to Lower Case** feature is enabled, barcode data “AbC” is transmitted as “abc”.

3 General Configuration

3.1 Trigger Mode



091A00.

Manual Trigger Mode – Normal (Default)



091B00.

Manual Trigger Mode – Cellphone

3.2 Presentation Mode

This set the scanner to work in Continue mode.



090901.

Presentation Mode – Normal



090902.

Presentation Mode - Cellphone



090903.

Presentation Mode – Continue Scan

3.3 Inverse color



024B000.

OFF (Default)



024B001.

Only Inverse ON



024B002.

Inverse And Normal Both ON

3.4 Sleep time



5 min



10 min



30 min



Always On

3.5 Good Read Beeper



0502101.

ON (Default)



0502100.

OFF

3.6 Good Read Beeper Tone



05021D1.

Low



05021D2.

Middle



05021D3.

High (Default)

3.7 Good Read Beeper Duration



0502160.

Normal (Default)



0502161.

Short

3.8 Good Read Beeper Number



05020E1.

1 (Default)



05020E2.

2



05020E3.

3

3.9 Barcode Scanning Delay



080B080.

No Delay (Default)



080B08500.

Delay 500 MS



080B082000.

Delay 2000 MS

4 Data Formatting

4.1 General Configuration



090200.

Add CR



090202.

Add LF



090300.

Add CRLF



090201.

Add TAB

4.2 Add Prefix



080400.

Set Custom Prefix



0D0400.

Save



0D0500.

Not Save

To set a customer prefix, scan the “Set Custom Prefix” barcode and the numeric barcodes which representing the hexadecimal values of a desired prefix, and then scan the “Save” barcode. Refer to Appendix 2: ASCII Table for hexadecimal values of characters.

Example: Set the custom Prefix to “ODE”

1. Check the hex values of “ODE” in the ASCII Table. (“ODE”: 4F, 44, 45)
2. Scan the **Set Custom Prefix** barcode.
3. Scan the numeric barcodes “9”, “9”, “4”, “F”, “4”, “4”, “4” and “5” in Appendix 3 .
4. Scan the **Save** barcode.

4.3 Add Suffix



080500.

Set Custom Suffix



0D0400.

Save



0D0500.

Not Save

To set a customer suffix, scan the “Set Custom Suffix” barcode and the numeric barcodes which representing the hexadecimal values of a desired suffix, and then scan the “Save” barcode. Refer to Appendix 2: ASCII Table for hexadecimal values of characters.

Example: Set the custom Suffix to “ODE”

1. Check the hex values of “ODE” in the ASCII Table. (“ODE”: 4F, 44, 45)
2. Scan the **Set Custom Suffix** barcode.
3. Scan the numeric barcodes “9”, “9”, “4”, “F”, “4”, “4”, “4” and “5” in Appendix 3 .
4. Scan the **Save** barcode.

4.4 Clear All Prefix and Suffix



080404.

Clear All Prefix And Suffix (Default)

5 Symbologies

5.1 General Settings

5.1.1 Restore Symbology Default Setting



Restore Symbology Default

Symbologies Enable:

Code 128, Code 39, UPC, EAN, Interleaved 2 of 5, Code 93, Coda Bar, GS1-128, DataMatrix, PDF417, QR, Maxi Code, Aztec.

5.1.2 Optimize Performance for Retail Use Case

Make for optimize scan performance in most retail barcode scan use case.

Symbologies Enable:

UPC, EAN, Code128, QR, PDF417.



Only Enable Retail Barcode

5.1.3 Enable/Disable All Symbologies

If the **Disable All Symbologies** feature is enabled, the engine will not be able to read any non-programming barcodes except the programming barcodes.



Enable All Symbologies



Disable All Symbologies

5.2 1D Symbologies

5.2.1 Code 128

Enable/Disable Code 128



020A011.

Enable Code 128 (Default)



020A010.

Disable Code 128

Message Length

Message length can be set to the maximum value or minimum value. The value between the maximum and the minimum is valid.

The maximum value and minimum value can be set using “Programming Command”. Please check the programming command guide for the detail.

Code 128 max length command: 020A03. The parameter of this command can be set from min to 90.

Code 128 min length command: 020A02. The parameter of this command can be set from 0 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 020A0325 ; Min: 020A0210.

5.2.2 EAN-8

Enable/Disable EAN-8



0214011.

Enable EAN-8 (Default)



0214010.

Disable EAN-8

Transmit Check Digit

EAN-8 is 8 digits in length with the last one as its check digit used to verify the accuracy of the data.



0214021.

Transmit EAN-8 Check Digit (Default)



0214020.

Do Not Transmit EAN-8 Check Digit

Add-On Code

An EAN-8 barcode can be augmented with a two-digit or five-digit add-on code to form a new one. In the examples below, the part surrounded by blue dotted line is an EAN-8 barcode while the part circled by red dotted line is add-on code.





0214031.

Enable 2-Digit Add-On Code



0214030.

Disable 2-Digit Add-On Code (Default)



0214041.

Enable 5-Digit Add-On Code



0214040.

Disable 5-Digit Add-On Code (Default)

Add-On Code Required



0214051.

EAN-8 Add-On Code Required



0214050.

EAN-8 Add-On Code Not Required (Default)

ENA/JAN-8 Addenda Separator

When this feature is enabled, there is a space between barcode and addenda. When this feature is disabled, there is no space.



0214061.

Enable ENA/JAN-8 Addenda Separator (Default)



0214060.

Disable ENA/JAN-8 Addenda Separator UPC

5.2.3 EAN-13

Enable/Disable EAN-13



0213011.

Enable EAN-13 (Default)



0213010.

Disable EAN-13

Transmit Check Digit



0213021.

Transmit EAN-13 Check Digit (Default)



0213020.

Do Not Transmit EAN-13 Check Digit

Add-On Code



0213031.

Enable 2-Digit Add-On Code



0213030.

Disable 2 Digit Add On Code (Default)



0213041.

Enable 5-Digit Add-On Code



0213040.

Disable 5-Digit Add-On Code (Default)

Add-On Code Required



0213051.

EAN-13 Add-On Code Required



0213050.

EAN-13 Add-On Code Not Required (Default)

ENA/JAN-13 Addenda Separator

When this feature is enabled, there is a space between barcode and addenda. When this feature is disabled, there is no space.



0213061.

Enable ENA/JAN-13 Addenda Separator (Default)



0213060.

Disable ENA/JAN-13 Addenda Separator

ISBN Translate

When enable this feature and is scanned, ENA-13 Book land symbols are translated into their equivalent ISBN number format.



0213071.

Enable ISBN Translate



0213070.

Disable ISBN Translate (Default)

5.2.4 UPC-E

Enable/Disable UPC-E0/E1



0212011.

Enable UPC-E0 (Default)



0212010.

Disable UPC-E0



0212021.

Enable UPC-E1



0212020.

Disable UPC-E1 (Default)

UPC-E0 Check Digit



0212041.

Enable UPC-E0 Check Digit (Default)



0212040.

Disable UPC-E0 Check Digit

UPC-E0 Expand

UPC-E0 expand expands the UPC-E code to the 12 digits, UPC-A format.



0212031.

Enable UPC-E0 Expand



0212030.

Disable UPC-E0 Expand (Default)

UPC-E0 Addenda Required

When required is scanned, the scanner will only read UPC-E barcodes that have addenda.



0212081.

Enable UPC-E0 Required



0212080.

Disable UPC-E0 Required (Default)

UPC-E0 Addenda Separator



0212091.

Enable UPC-E0 Separator (Default)



0212090.

Disable UPC-E0 Separator

UPC-E0 Number System

The number system digit of UPC symbol is normally transmitted at the beginning of the scanned data, but the unit can be programmed so it will be not transmitted.



Enable UPC-E0 Number System (Default)



Disable UPC-E0 Number System

UPC-E0 Addenda



Enable 2 Digit Addenda



Disable 2 Digit Addenda (Default)



Enable 5 Digit Addenda



Disable 5 Digit Addenda (Default)

5.2.5 UPC-A

Enable/Disable UPC-A



0211011.

Enable UPC-A (Default)



0211010.

Disable UPC-A

UPC-A Check Digit



0211021.

Enable UPC-A Check Digit (Default)



0211020.

Disable UPC-A Check Digit

UPC-A Addenda Required

When required is scanned, the scanner will only read UPC-E barcodes that have addenda.



0211061.

Enable UPC-A Required



0211060.

Disable UPC-A Required (Default)

UPC-A Addenda Separator



0211071.

Enable UPC-A Separator (Default)



0211070.

Disable UPC-A Separator

UPC-A: Number System

The number system digit of UPC symbol is normally transmitted at the beginning of the scanned data, but the unit can be programmed so it will be not transmitted.



0211031.

Enable UPC-A Number System (Default)



0211030.

Disable UPC-A Number System

UPC-A: Addenda



0211041.

Enable 2 Digit Addenda



0211040.

Disable 2 Digit Addenda (Default)



0211051.

Enable 5 Digit Addenda



0211050.

Disable 5 Digit (Default)

5.2.6 Interleaved 2 Of 5

Enable/Disable Interleaved 2 Of 5



0204011.

Enable Interleaved 2 Of 5 (Default)



0204010.

Disable Interleaved 2 Of 5

Message Length

Message length can be set to the maximum value, minimum value. The data between the maximum and the minimum is valid.

The maximum value and minimum value can be set using Programming Command. Please check the programming command guide for the detail.

Interleaved 2 of 5 max length command: 020404. The parameter of this command can be set from min to 80.

Interleaved 2 of 5 min length command: 020403. The parameter of this command can be set from 2 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 02040425 ; Min: 02040310.

Interleaved 2 Of 5 Check Digit



0204020.

No Check Char (Default)



0204022.

Validate And Transmit



0204021.

Validate Not Transmit

5.2.7 Matrix 2 Of 5

Enable/Disable Matrix 2 Of 5



0208011.

Enable Matrix 2 Of 5



0208010.

Disable Matrix 2 Of 5 (Default)

Message Length

Message length can be set to the maximum value, minimum value. The value is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Matrix 2 of 5 max length command: 020803. The parameter of this command can be set from min to 80.

Matrix 2 of 5 min length command: 020802. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 02080325 ; Min: 02080210.

5.2.8 Industrial 2 Of 5

Enable/Disable Industrial 2 Of 5



0206011.

Enable Industrial 2 Of 5



0206010.

Disable Industrial 2 Of 5 (Default)

Message Length

Message length can be set to the maximum value, minimum value. The value is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Industrial 2 of 5 max length command: 020603. The parameter of this command can be set from min to 48.

Industrial 2 of 5 min length command: 020602. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 02060325 ; Min: 02060210.

5.2.9 Code 39

Enable/Disable Code 39



0203011.

Enable Code 39 (Default)



0203010.

Disable Code 39

Transmit Start/Stop Character



0203051.

Transmit Start/Stop Character



0203050.

Do Not Transmit Start/Stop Character (Default)

Code 39 Check Character



0203040.

No Check Char (Default)



0203042.

Validate And Transmit



0203041.

Validate No Transmit

Code 39 Append

This function allows the scanner to append several Code 39 barcode data together before transmitting to host. When the scanner encounters a Code 39 barcode with append character (ex. Space character), it buffers the data until it reads a Code 39 barcode which does not have append character. Then the data is transmitted in the order that the barcodes were read.



0203031.

Enable Append



0203030.

Disable Append (Default)

Code 39 Full ASCII



0203021.

Enable Code 39 Full ASCII



0203020.

Disable Code 39 Full ASCII (Default)

Message Length

Message length can be set to the maximum value, minimum value. The value is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Code 39 max length command: 020308. The parameter of this command can be set from min to 48.

Code 39 min length command: 020307. The parameter of this command can be set from 0 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 02030825 ; Min: 02030710.

5.2.10 Coda Bar

Enable/Disable Coda Bar



0202011.

Enable Coda Bar (Default)



0202010.

Disable Coda Bar

Message Length

Message length can be set to the maximum value, minimum value. The data between the maximum and the minimum is valid.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Coda bar max length command: 020206. The parameter of this command can be set from min to 60.

Coda bar min length command: 020205. The parameter of this command can be set from 2 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 02020625 ; Min: 02020510.

Transmit Start/Stop Character



0202021.

Transmit Start/Stop Character



0202020.

Do Not Transmit Start/Stop Character (Default)

Coda bar Check Character



0202030.

No Check Char (Default)



0202032.

Validate And Transmit



0202031.

Validate No Transmit

5.2.11 Code 93

Enable/Disable Code 93



020D011.

Enable Code 93 (Default)



020D010.

Disable Code 93

Message Length

Message length can be set to the maximum value, minimum value. The data between the maximum and the minimum is valid.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Code 93 max length command: 020D03. The parameter of this command can be set from min to 80.

Code 93 min length command: 020D02. The parameter of this command can be set from 0 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 020D0325 ; Min: 020D0210.

Code 93 Append

This function allows the scanner to append several Code 93 barcode data together before transmitting to host. When the scanner encounters a Code 93 barcode with append character (ex. Space character), it buffers the data until it reads a Code 93 barcode which does not have append character. Then the data is transmitted in the order that the barcodes were read.



020D051.

Enable Code 93 Append



020D050.

Disable Code 93 Append (Default)

5.2.12 GS1-128

Enable/Disable GS1-128



020B001.

Enable GS1-128 (Default)



020B000.

Disable GS1-128

Message Length

Message length can be set to the maximum value, minimum value. The data between the maximum and the minimum is valid.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

GS1-128 max length command: 020B03. The parameter of this command can be set from min to 80.

GS1-128 min length command: 020B02. The parameter of this command can be set from 0 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 020B0325 ; Min: 020B0210.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

GS1-128 max length command: 020B03. The parameter of this command can be set from min to 80.

GS1-128 min length command: 020B02. The parameter of this command can be set from 0 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 020B0325 ; Min: 020B0210.

5.2.13 MSI

Enable/Disable MSI



020E011.

Enable MSI



020E010.

Disable MSI (Default)

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

MSI max length command: 020E04. The parameter of this command can be set from min to 48.

MSI min length command: 020E03. The parameter of this command can be set from 4 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 020E0425 ; Min: 020E0310.

MSI Check Character



020E021.

Validate Type10 Transmit



020E025.

Validate Type10 Then Type11 Char Transmit



020E024.

Validate Type10 Then Type11 Char NO Transmit



020E024.

Validate Type10 No Transmit



020E020.

Validate 2 Type10 No Transmit (Default)



020E023.

Validate 2 Type10 Char Transmit



020E022.

Validate 2 Type10 Char No Transmit



020E026.

Disable MSI Check

5.2.14 Code 11

Enable/Disable Code 11



0209010.

Disable Code 11 (Default)



0209011.

Enable Code 11

Code11 Check Digit(s)



0209040.

One Check Digit



0209041.

Two Check Digits (Default)

5.3 2D Symbologies

5.3.1 PDF 417

Enable/Disable PDF 417



021F011.

Enable PDF 417 (Default)



021F010.

Disable PDF 417

Enable/Disable Micro PDF 417



0220011.

Enable Micro PDF 417



0220010.

Disable Micro PDF 417 (Default)

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

PDF417 max length command: 021F06. The parameter of this command can be set from min to 2750.

PDF417 min length command: 021F05. The parameter of this command can be set from 1 to max. Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 021F0625 ; Min: 021F0510.

5.3.2 QR Code

Enable/Disable QR Code



0237011.

Enable QR Code (Default)



0237010.

Disable QR Code

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum is valid.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

QR max length command: 023703. The parameter of this command can be set from min to 7089.

QR min length command: 023702. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 02370325 ; Min: 02370210.

QR Code Append

This function allows the scanner to append several QR barcode data together before transmitting to host. When the scanner encounters a QR barcode with append character (ex. Space character), it buffers the data until it reads a QR barcode which does not have append character. Then the data is transmitted in the order that the barcodes were read.



0237081.

Enable QR Code Append (Default)



0237080.

Disable QR Code Append

5.3.3 Data Matrix

Enable/Disable Data Matrix



0236011.

Enable Data Matrix (Default)



0236010.

Disable Data Matrix

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Data Matrix max length command: 023603. The parameter of this command can be set from min to 3116.

Data Matrix min length command: 023602. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 02360325 ; Min: 02360210.



023604.

Data Matrix Code Page (Default)

5.3.4 Maxi code

Enable/Disable Maxi code



0234011.

Enable Maxi Code



0234010.

Disable Maxi Code (Default)

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Maxi Code max length command: 023403. The parameter of this command can be set from min to 150.

Maxi Code min length command: 023402. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 02340325 ; Min: 02340210.

5.3.5 Aztec

Enable/Disable Aztec



0233011.

Enable Aztec (Default)



0233010.

Disable Aztec

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Aztec max length command: 023306. The parameter of this command can be set from min to 3832.

Aztec min length command: 023305. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 02330625 ; Min: 02330510.

Aztec Append



0233081.

Enable Aztec Append (Default)



0233080.

Disable Aztec Append

5.3.6 Hanxin

Enable/Disable Hanxin



0238011.

Enable Hanxin



0238010.

Disable Hanxin (Default)

Message Length

Message length can be set to the maximum value, minimum value. The data is valid between the maximum and the minimum.

The maximum value and minimum value can be set using Programming command. Please check the programming command guide for the detail.

Hanxin max length command: 023803. The parameter of this command can be set from min to 7833.

Hanxin min length command: 023802. The parameter of this command can be set from 1 to max.

Example: Set the Barcode Message length of the minimum value is 10; the maximum value is 25.

Programming command: Max: 02380325 ; Min: 02380210.

5.4 Postal Symbologies

5.4.1 China Postal Code

Enable/Disable China Postal Code



0218011.

Enable China Postal Code



0218010.

Disable China Postal Code (Default)

5.4.2 Telepen

Enable/Disable Telepen



0210011.

Enable China Telepen



0210010.

Disable China Telepen (Default)

6 Appendix

6.1 Appendix 1: ASCII Table

Hex	Dec	Char
00	0	NUL (Null char.)
01	1	SOH (Start of Header)
02	2	STX (Start of Text)
03	3	ETX (End of Text)
04	4	EOT (End of Transmission)
05	5	ENQ (Enquiry)
06	6	ACK (Acknowledgment)
07	7	BEL (Bell)
08	8	BS (Backspace)
09	9	HT (Horizontal Tab)
0a	10	LF (Line Feed)
0b	11	VT (Vertical Tab)
0c	12	FF (Form Feed)
0d	13	CR (Carriage Return)
0e	14	SO (Shift Out)
0f	15	SI (Shift In)
10	16	DLE (Data Link Escape)
11	17	DC1 (XON) (Device Control 1)
12	18	DC2 (Device Control 2)
13	19	DC3 (XOFF) (Device Control 3)
14	20	DC4 (Device Control 4)
15	21	NAK (Negative Acknowledgment)
16	22	SYN (Synchronous Idle)
17	23	ETB (End of Trans. Block)
18	24	CAN (Cancel)
19	25	EM (End of Medium)
1a	26	SUB (Substitute)
1b	27	ESC (Escape)
1c	28	FS (File Separator)
1d	29	GS (Group Separator)
1e	30	RS (Request to Send)
1f	31	US (Unit Separator)



Hex	Dec	Char
20	32	SP (Space)
21	33	! (Exclamation Mark)
22	34	" (Double Quote)
23	35	# (Number Sign)
24	36	\$ (Dollar Sign)
25	37	% (Percent)
26	38	& (Ampersand)
27	39	` (Single Quote)
28	40	((Right / Closing Parenthesis)
29	41) (Right / Closing Parenthesis)
2a	42	* (Asterisk)
2b	43	+ (Plus)
2c	44	, (Comma)
2d	45	- (Minus / Dash)
2e	46	. (Dot)
2f	47	/ (Forward Slash)
30	48	0
31	49	1
32	50	2
33	51	3
34	52	4
35	53	5
36	54	6
37	55	7
38	56	8
39	57	9
3a	58	: (Colon)
3b	59	; (Semi-colon)
3c	60	< (Less Than)
3d	61	= (Equal Sign)
3e	62	> (Greater Than)
3f	63	? (Question Mark)

Hex	Dec	Char
40	64	@ (AT Symbol)
41	65	A
42	66	B
43	67	C
44	68	D
45	69	E
46	70	F
47	71	G
48	72	H
49	73	I
4a	74	J
4b	75	K
4c	76	L
4d	77	M
4e	78	N
4f	79	O
50	80	P
51	81	Q
52	82	R
53	83	S
54	84	T
55	85	U
56	86	V
57	87	W
58	88	X
59	89	Y
5a	90	Z
5b	91	[(Left / Opening Bracket)
5c	92	\ (Back Slash)
5d	93] (Right / Closing Bracket)
5e	94	^ (Caret / Circumflex)
5f	95	_ (Underscore)

6.2 Appendix 2: KB wedge character Table

Hex	Char	Hex	Char	Hex	Char
80	F1	81	F2	82	F3
83	F4	84	F5	85	F6
86	F7	87	F8	88	F9
89	F10	8A	F11	8B	F12
8C	L-Ctrl	8D	L-Shift	8E	L-Alt
8F	L-GUI	90	R-Ctrl	91	R-Shift
92	R-Alt	93	R-GUI	94	Caps Lock
95	Print Screen	96	Scroll Lock	97	Pause
98	Insert	99	Delete	9A	Home
9B	End	9C	Page Up	9D	Page Down
9E	Left Arrow	9F	Right Arrow	A0	Up Arrow
A1	Down Arrow	A2	Num Lock (keypad)	A3	1 (keypad)
A4	2 (keypad)	A5	3 (keypad)	A6	4 (keypad)
A7	5 (keypad)	A8	6 (keypad)	A9	7 (keypad)
AA	8 (keypad)	AB	9 (keypad)	AC	0 (keypad)
AD	/ (keypad)	AE	* (keypad)	AF	- (keypad)
B0	+ (keypad)	B1	Enter (keypad)	B2	. (keypad)
B3	Insert (keypad)	B4	Delete (keypad)	B5	Home (keypad)
B6	End (keypad)	B7	Page Up (keypad)	B8	Page Dn (keypad)
B9	Left Arrow (keypad)	BA	Right Arrow (keypad)	BB	Up Arrow (keypad)
BC	Down Arrow (keypad)				

6.3 Appendix 3: Digit Barcodes

0	1	2	3
			
4	5	6	7
			
8	9	A	B
			
C	D	E	F
			