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Getting Started

Installing the Keyboard Wedge Scanner

To install the keyboard wedge scanner, follow the steps as listed below:

1) Make sure that the scanner has the Keyboard connector for the host device (a PC or terminal)
2) Turn off the power of the host device
3) Unplug the keyboard from the system
4) Connect the cable to the system and keyboard
5) Turn on the power of the system
6) If the indicator LED lights up and the buzzer sounds, the scanner is ready for reading

Installing the RS-232 Interface Scanner

To install the RS-232 interface scanner, the host device should have an RS-232 port to receive data from the scanner, follow the steps as listed below:

1) Make sure that the scanner has the RS-232 connector for the RS-232 port of the host device
2) Make sure that there is a power supply to the scanner (if necessary)
3) Connect the cable to the RS-232 port of the device
4) If the indicator LED lights up and the buzzer sounds, the scanner is ready for reading

Installing the USB Interface Scanner

To install the USB interface scanner, the host device should have a USB port to receive data from the scanner, follow the steps as listed below:

1) Make sure that the scanner has USB connector for the USB port of the host device
2) Connect the cable to the USB port of the device
3) If the indicator LED lights up and the buzzer sounds, the scanner is ready for reading
Configuration of the Scanner

Setup Flow Chart

Start Configuration

Scan Items
(Interface, Port, Barcode Symbologies, Function Keys, Scan Mode, ...etc.)

End Configuration

Save Parameters

To configure the scanner:

1. Scan the “Start Configuration” to enter the configuration mode.
2. Select and scan the desired labels to configure the scanner (Interface, communication parameters, baud rate ...etc.)
3. Scan the Symbology Selections to enable/disable the barcode symbologies preferred.
4. As the configuration is completed, scan the item “End Configuration” to exit the configuration mode.
5. Remember to scan the label “Save Parameters” to save the new settings into the scanner.
Operation Parameters

Configuration Items

Start Configuration
Scan the barcode to enable the scanner to the configuration Mode

Recall Stored Parameters
Replace the current parameters by the parameters you saved last time.

Set All Defaults
Set all the parameters to the factory default settings.

End Configuration
Exit the Configuration Mode

Save Parameters
The parameter settings will be saved permanently.

Abort Configuration
Terminate current programming status.

Show Version
Display the decoder version information and date code.
Group 0: Interface Selection

- Start Configuration
- Save Parameters
- End Configuration

KEYBOARD
RS-232
USB
Virtual COM

Note: The interface is preset at factory according to the model of the device.
Group 1: Scan Mode Selection

Start Configuration

End Configuration

Save Parameters

Good Read OFF (*)

Trigger ON/OFF

Continuous/Trigger OFF

Testing

Continuous/Auto Power On

Flash

Flash/Auto Power On

Reserved1

Auto Sense (Option)

Reserved3
Group 1: Scan Mode Selection

Start Configuration

Save Parameters

End Configuration

Reserved4

Reserved5
Group 2: RS232 Communication Parameters

A. BAUD Rate Setup

2400
1200
9600 (*)
4800
38400
19200

B. Data Bits Setup

7 Data Bits
8 Data Bits (*)
<table>
<thead>
<tr>
<th>Start Configuration</th>
<th>End Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Save Parameters</td>
<td></td>
</tr>
</tbody>
</table>

**C. Stop Bits Setup**

- 1 Bit (*)
- 2 Bits

**D. Parity Setup**

- None (*)
- Even
- Odd
- Mark
- Space
Group 2: RS232 Communication Parameters

Start Configuration

End Configuration

Save Parameters

E. Handshaking

RTS/CTS Enable

RTS/CTS Disable (*)

ACK/NAK Enable

ACK/NAK Disable (*)

XON/XOFF Enable

XON/XOFF Disable (*)
Group 3: Device Selection for Keyboard Interface

### A. Terminal Type

- **IBM PC/AT, PS/2**
- **IBM PS/2 25, 30**
- **NEC 9800**
- **Apple Desktop Bus (ADB)**
- **IBM 122 Key (1)**
- **IBM 122 Key (2)**
- **IBM PC/XT**
- **IBM 5550**
- **IBM 102 Key**
### Group 3: Device Selection for Keyboard Interface

<table>
<thead>
<tr>
<th>Start Configuration</th>
<th>End Configuration</th>
<th>Save Parameters</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Reserved 1</th>
<th>Reserved 2</th>
<th>Reserved 3</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Reserved 4</th>
<th>Reserved 5</th>
<th>B. Upper/Lower Case</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>No Change (*)</th>
<th>Upper Case</th>
<th>Lower Case</th>
</tr>
</thead>
</table>
Group 3: Device Selection for Keyboard Interface

Start Configuration

End Configuration

Save Parameters

C. Caps Lock Detection

Enable

Disable (*)

D. Send Character by ALT Method

Enable

Disable (*)

E. Select Numerical Pad

ON

OFF (*)
Group 4: Output Characters Parameters

A. Select Terminator

- CR+LF (*)
- None
- CR
- LF
- Space
- HT(TAB)
- STX-ETX
Group 4: Output Characters Parameters

B. Time-out Between Characters

- 0 ms (*)
- 5 ms
- 10 ms
- 25 ms
- 50 ms
- 100 ms
- 200 ms
- 300 ms
Barcodes & General Parameters
Group 5: Symbologies Selection

Start Configuration

End Configuration

Save Parameters

UPC-A
Enable (*)

UPC-E
Enable (*)

Enable (*)

EAN-8/JAN-8
Enable (*)
Group 5: Symbologies Selection

Start Configuration

End Configuration

Save Parameters

CODE 39
Enable (*)

CODE 128
Enable (*)

CODABAR/NW7
Enable (*)

Interleave 25
Enable (*)
Group 5: Symbologies Selection

Start Configuration

End Configuration

Save Parameters

Industrial 25
Enable

Matrix 25
Enable

CODE 93
Enable

CODE 11
Enable
## Group 5: Symbologies Selection

<table>
<thead>
<tr>
<th>Symbology</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>China Postage</td>
<td>Enable</td>
</tr>
<tr>
<td>MSI/Plessey</td>
<td>Disable</td>
</tr>
<tr>
<td>Code 2 of 6</td>
<td>Enable</td>
</tr>
<tr>
<td>LCD25</td>
<td>Disable</td>
</tr>
</tbody>
</table>
### Group 5: Symbology Selection

<table>
<thead>
<tr>
<th>Barcode Pattern</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Start Configuration" /></td>
<td>Start Configuration</td>
</tr>
<tr>
<td><img src="image2" alt="End Configuration" /></td>
<td>End Configuration</td>
</tr>
<tr>
<td><img src="image3" alt="Save Parameters" /></td>
<td>Save Parameters</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Barcode Pattern</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image4" alt="Telepen" /></td>
<td>Enable</td>
</tr>
<tr>
<td><img src="image5" alt="Reserved5" /></td>
<td>Disable (*)</td>
</tr>
<tr>
<td><img src="image6" alt="Reserved6" /></td>
<td>Enable</td>
</tr>
<tr>
<td><img src="image7" alt="Telepen" /></td>
<td>Disable (*)</td>
</tr>
<tr>
<td><img src="image8" alt="Reserved6" /></td>
<td>Disable (*)</td>
</tr>
</tbody>
</table>
Group 5: Symbolologies Selection

Start Configuration

End Configuration

Save Parameters

GS1 DataBar Omnidirectional

Enable

GS1 DataBar Limited

Enable

GS1 DataBar Omnidirectional

Enable

GS1 DataBar Omnidirectional

Enable

GS1 DataBar Omnidirectional

Enable

Enable All Barodes
### Group 6: UPC/EAN1/JAN Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Start Configuration</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>End Configuration</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Save Parameters</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**A. Reading Type**

**UPCA=EAN13**

<table>
<thead>
<tr>
<th>Enable/Disable</th>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disable (*)&amp;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Enable/Disable</th>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISBN-1C Enable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISBN-13Enable (*)&amp;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ISSN**

<table>
<thead>
<tr>
<th>Enable/Disable</th>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disable (*)&amp;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Decode with Supplement**

<table>
<thead>
<tr>
<th>Enable/Disable</th>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto discriminate Supplement</td>
<td>Enable (*)&amp;</td>
<td></td>
</tr>
</tbody>
</table>
Group 6: UPC/EAN1/JAN Parameters

Start Configuration

End Configuration

Save Parameters

Expand UPC-E

Enable

Disable (*)

EAN8=EAN13

Enable

Disable (*)

GTIN Format

Enable

Disable (*)
Group 6: UPC/EAN1/JAN Parameters

- Start Configuration
- End Configuration
- Save Parameters

B. Supplemental Set Up

Not Transmit

Transmit 2 Code

Transmit 5 Code

Transmit 2&5 Code

C. Check Digit Transmission

UPC-A Check Digit Transmission

Enable (*)

Disable

UPC-E Check Digit Transmission

Enable (*)

Disable
Group 6: UPC/EAN1/EAN Parameters

Start Configuration

End Configuration

Save Parameters

EAN-8 Check Digit Transmission

Enable (*)

Disable

EAN-13 Check Digit Transmission

Enable (*)

Disable

ISSN Check Digit Transmission

Enable (*)

Disable
Group 7: Code 39 Parameters

A. Type of Code

Standard (*)

Full ASCII

Italian Pharmacy/Code 32

Enable (*)

Italian Pharmacy/ Code 32

Disable

B. Check Digit Transmission

Do Not Calculate Check Digit

Calculate Check Digit & Transmit

Calculate Check Digit & Not Transmit

Disable
Group 7: Code 39 Parameters

Start Configuration

End Configuration

Save Parameters

C. Output Start/Stop Character

Enable

Disable (*)

D. Decode Asterisk

Enable

Disable (*)
E. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:
1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   
   i.e.: To Set length to 12
   Scan Decimal “1” then scan “2”

4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
To set the 2nd set of fixed length:
1. Scan “Start Configuration” label.
2. Scan the “2nd Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

i.e.: To Set length to 8
Scan Decimal “8” then continue

DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>08</td>
</tr>
<tr>
<td>(CORRECT)</td>
<td>(WRONG)</td>
</tr>
</tbody>
</table>

4. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
Group 7: Code 39 Parameters

Minimum Length:
This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:
1. Scan “Start Configuration” label.
2. Complete the 1st or 2nd set of fixed length configuration.
3. Scan the “Minimum Length Begin” label
4. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

i.e.: To Set length to 9
Scan Decimal “9” then continue

DO NOT SCAN “0” BEFORE THE LENGTH
from 1~9

9
(CORRECT)
09
(WRONG)

5. Scan the “Minimum Length Complete” label

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

Minimum Length Begin

Minimum Length Complete
Group 8: Code 128 Parameters

A. Reading Type

UCC/EA1-128
- Enable

C1 Code Format
- Enable (*)

Code128 Group Separators(GS)
- Enable (*)
Group 8: Code 128 Parameters

B. Check Digit Transmission

Do Not Calculate
Check Digit UCC/EA1-128

Calculate Check Digit & Transmit

Calculate Check Digit & Not Transmit

C. Append FNC2

Enable

Disable (*).
D. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:

1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

i.e.: To Set code length to 12
Scan Decimal “1” then scan “2”

4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
Group 8: Code 128 Parameters

To set the 2nd set of fixed length:
1. Scan “Start Configuration” label.
2. Scan the “2nd Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   i.e.: To Set code length to 8
   Scan Decimal “8” then continue

   DO NOT SCAN “0” BEFORE THE LENGTH from 1~9
   8     08
   (CORRECT) (WRONG)

4. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

2nd Set of Fix Length (2 Sets Available)
Minimum Length:
This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:
1. Scan “Start Configuration” label.
2. Complete the 1st or 2nd set of fixed length configuration.
3. Scan the “Minimum Length Begin” label
4. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
i.e.: To Set length to 9
Scan Decimal “9” then continue

DO NOT SCAN “0” BEFORE THE LENGTH from 1~9
9
(CORRECT)
09
(WRONG)
Scan the “Minimum Length Complete” label

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
Group 9: Interleave 25 Parameters

A. Check Digit Transmission

Do Not Calculate Check Digit

Calculate Check Digit & Transmit

B. Set Up Number of Character

EVEN (*)

ODD

C. Brazilian Banking Code

Enable

Disable (*)
Group 9: Interleave 25 Parameters

D. Set 8p Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:
5. Scan “Start Configuration” label.
6. Scan the “1st Set Begin” label.
7. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   i.e.: To Set code length to 12
   Scan Decimal “1” then scan “2”
8. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
To set the 2nd set of fixed length:
5. Scan “Start Configuration” label.
6. Scan the “2nd Set Begin” label.
7. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

i.e.: To Set code length to 8
Scan Decimal “8” then continue

DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

8
(CORRECT)
08
(WRONG)

8. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
Group 9: Interleave 25 Parameters

Minimum Length:
This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:
5. Scan “Start Configuration” label.
6. Complete the 1st or 2nd set of fixed length configuration.
7. Scan the “Minimum Length Begin” label
8. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   i.e.: To Set length to 7
   Scan Decimal “7” then continue

   DO NOT SCAN “0” BEFORE THE LENGTH from 1~9
   7  07
   (CORRECT)  (WRONG)
   Scan the “Minimum Length Complete” label

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
Group 10: Industrial 25 Parameters

A. Reading type

IATA25

Enable

Disable (*)

B. Check Digit Transmission

Do Not Calculate Check Digit

Calculate Check Digit & Transmit

Calculate Check Digit & Not Transmit
C. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:
1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

i.e.: To Set code length to 11
Scan Decimal “1” then scan “1”

4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
To set the 2nd set of fixed length:

9. Scan “Start Configuration” label.
10. Scan the “2nd Set Begin” label.
11. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

i.e.: To Set code length to 7
Scan Decimal “7” then continue

DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

7 02
(CORRECT) (WRONG)

12. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
Group 10: Industrial 25 Parameters

**Minimum Length:**
This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:
9. Scan “Start Configuration” label.
10. Complete the 1st or 2nd set of fixed length configuration.
11. Scan the “Minimum Length Begin” label
12. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
i.e.: To Set length to 9
Scan Decimal “9” then continue

**DO NOT SCAN “0” BEFORE THE Minimum Length from 1~9**

<table>
<thead>
<tr>
<th>9</th>
<th>09</th>
</tr>
</thead>
<tbody>
<tr>
<td>(CORRECT)</td>
<td>(WRONG)</td>
</tr>
</tbody>
</table>

Scan the “Minimum Length Complete” label

**Note:**
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
**Group 11: Matrix 25 Parameters**

<table>
<thead>
<tr>
<th>Start Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Configuration</td>
</tr>
<tr>
<td>Save Parameters</td>
</tr>
</tbody>
</table>

### A. Check Digit Transmission

- **Do Not Calculate Check Digit**
  
  - 

- **Calculate Check Digit & Transmit**
  
  - (*)&
  
  - 

- **Calculate Check Digit & Not Transmit**
  
  - 

---
B. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:
1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

\[ \text{i.e.: To Set code length to 10} \]
Scan Decimal “1” then scan “0”

4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
To set the 2nd set of fixed length:
1. Scan “Start Configuration” label.
2. Scan the “2nd Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

i.e.: To Set code length to 7
Scan Decimal “7” then continue

DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>07</td>
</tr>
</tbody>
</table>

(CORRECT) (WRONG)

4. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
Group 11: Matrix 25 Parameters

Minimum Length:
This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:
1. Scan “Start Configuration” label.
2. Complete the 1st or 2nd set of fixed length configuration.
3. Scan the “Minimum Length Begin” label
4. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   i.e.: To Set length to 9
   Scan Decimal “9” then continue

   DO NOT SCAN “0” BEFORE THE Minimum Length from 1~9
   9  09
   (CORRECT)  (WRONG)

5. Scan the “Minimum Length Complete” label

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
A. Set Up Start/Stop Characters
Upon Transmission

Enable

Disable (*)
Group 12: CODABAR/NW7 Parameters

B. Transmission Type of Start/Stop

A/B/C/D Start

A/B/C/D Stop

A Start

A Stop

B Start

B Stop

C Start

C Stop

D Start

D Stop
C. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:
1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   i.e.: To Set code length to 11
   Scan Decimal “1” then scan “1”
4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
To set the 2nd set of fixed length:
1. Scan “Start Configuration” label.
2. Scan the “2nd Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   
i.e.: To Set code length to 7
Scan Decimal “7” then continue

**DO NOT SCAN “0” BEFORE THE LENGTH from 1~9**

7  
07  
(CORRECT)  (WRONG)

4. Scan the “2nd Set Complete” label.

**Note:**
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
Group 12: CODABAR/NW7 Parameters

Minimum Length:
This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:
1. Scan “Start Configuration” label.
2. Complete the 1st or 2nd set of fixed length configuration.
3. Scan the “Minimum Length Begin” label
4. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
i.e.: To Set length to 9
   Scan Decimal “9” then continue

   DO NOT SCAN “0” BEFORE THE Minimum Length from 1~9
   \[9\]  \[99\]  (CORRECT)  \[0\]  (WRONG)
5. Scan the “Minimum Length Complete” label

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
Group 13: Code 93 Parameters

A. Check Digit Transmission

Calculate Check 2 Digits & Not Transmit

Do Not Calculate Check Digit

Start Configuration

End Configuration

Save Parameters

(*)
B. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:
1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   
   i.e.: To Set code length to 12
   Scan Decimal “1” then scan “2”

4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
To set the 2nd set of fixed length:
1. Scan “Start Configuration” label.
2. Scan the “2nd Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

i.e.: To Set code length to 6
Scan Decimal “6” then continue

**DO NOT SCAN “0” BEFORE THE LENGTH from 1~9**

<table>
<thead>
<tr>
<th>6</th>
<th>06</th>
</tr>
</thead>
<tbody>
<tr>
<td>(CORRECT)</td>
<td>(WRONG)</td>
</tr>
</tbody>
</table>

4. Scan the “2nd Set Complete” label.

**Note:**
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
Group 13: Code 93 Parameters

Minimum Length:
This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:
1. Scan “Start Configuration” label.
2. Complete the 1st or 2nd set of fixed length configuration.
3. Scan the “Minimum Length Begin” label
4. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
i.e.: To Set length to 9
Scan Decimal “9” then continue

DO NOT SCAN “0” BEFORE THE Minimum
Length from 1~9

9 (CORRECT) 09 (WRONG)

5. Scan the “Minimum Length Complete” label

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
Group 14: Code 11 Parameters

A. Check Digit Transmission

Do Not Calculate Check Digit

(*)

Calculate Check 1 Digit & Transmit

Calculate Check 1 Digit & Not Transmit

Calculate Check 2 Digits & Transmit

Calculate Check 2 Digits & Not Transmit
B. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:
1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   i.e.: To Set code length to 10
   Scan Decimal “1” then scan “0”
4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
To set the 2nd set of fixed length:
1. Scan “Start Configuration” label.
2. Scan the “2nd Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

i.e.: To Set code length to 7
Scan Decimal “7” then continue

DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

\[
\begin{array}{c|c}
7 & 07 \\
\text{(CORRECT)} & \text{(WRONG)}
\end{array}
\]

4. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
**Minimum Length:**
This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:
1. Scan “Start Configuration” label.
2. Complete the 1st or 2nd set of fixed length configuration.
3. Scan the “Minimum Length Begin” label
4. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
i.e.: To Set length to 9
Scan Decimal “9” then continue

DO NOT SCAN “0” BEFORE THE Minimum Length from 1~9

9 99 (CORRECT) (WRONG)

5. Scan the “Minimum Length Complete” label

**Note:**
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
Group 15: MSI/PLESSEY Code Parameters

A. Check Digit Transmission

Do Not Calculate Check Digit

Calculate Check Digit & Transmit

Calculate Check Digit & Not Transmit

(*)
B. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:
1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   i.e.: To Set code length to 10
   Scan Decimal “1” then scan “0”
4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
To set the 2nd set of fixed length:
1. Scan “Start Configuration” label.
2. Scan the “2nd Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

i.e.: To Set code length to 9
Scan Decimal “9” then continue

DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

9 (CORRECT) 09 (WRONG)

4. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

2nd Set of Fix Length
Group 15: MSI/PLESSEY Code Parameters

Minimum Length:
This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:
1. Scan “Start Configuration” label.
2. Complete the 1st or 2nd set of fixed length configuration.
3. Scan the “Minimum Length Begin” label
4. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   i.e.: To Set length to 12
   Scan Decimal “1” then “scan “2”

   DO NOT SCAN “0” BEFORE THE Minimum Length from 1~9
   12 9 09
   (CORRECT) (CORRECT) (WRONG)

5. Scan the “Minimum Length Complete” label

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
## Group 16: Code 2 of 6 Parameters

<table>
<thead>
<tr>
<th>Start Configuration</th>
<th>End Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Save Parameters</td>
<td></td>
</tr>
</tbody>
</table>

### A. Check Digit Transmission

<table>
<thead>
<tr>
<th>Do Not Calculate Check Digit (*)</th>
<th>Calculate Check Digit &amp; Transmit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculate Check Digit &amp; Not Transmit</td>
<td></td>
</tr>
</tbody>
</table>
Group 16: Code 2 of 6 Parameters

B. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:
1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   
   i.e.: To Set code length to 10
   Scan Decimal “1” then scan “0”

4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
To set the 2nd set of fixed length:
5. Scan “Start Configuration” label.
6. Scan the “2nd Set Begin” label.
7. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

i.e.: To Set code length to 9
Scan Decimal “9” then continue

DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

<table>
<thead>
<tr>
<th>9</th>
<th>00</th>
</tr>
</thead>
<tbody>
<tr>
<td>(CORRECT)</td>
<td>(WRONG)</td>
</tr>
</tbody>
</table>

8. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
Minimum Length:
This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:
6. Scan “Start Configuration” label.
7. Complete the 1st or 2nd set of fixed length configuration.
8. Scan the “Minimum Length Begin” label
9. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   i.e.: To Set length to 12
   Scan Decimal “1” then “scan “2”

   DO NOT SCAN “0” BEFORE THE Minimum Length from 1~9

<table>
<thead>
<tr>
<th>12</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>(CORRECT)</td>
<td>(CORRECT)</td>
</tr>
<tr>
<td>(WRONG)</td>
<td></td>
</tr>
</tbody>
</table>

10. Scan the “Minimum Length Complete” label

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
Group 17: LCD25 Parameters

A. Check Digit Transmission

Do Not Calculate Check Digit

(*)

Calculate Check Digit & Transmit

Calculate Check Digit & Not Transmit
Group 17: LCD25 Parameters

B. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:
1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

i.e.: To Set code length to 10
Scan Decimal “1” then scan “0”

4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
To set the 2nd set of fixed length:
1. Scan “Start Configuration” label.
2. Scan the “2nd Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

i.e.: To Set code length to 9
Scan Decimal “9” then continue

**DO NOT SCAN “0” BEFORE THE LENGTH from 1~9**

<table>
<thead>
<tr>
<th>9</th>
<th>09</th>
</tr>
</thead>
<tbody>
<tr>
<td>(CORRECT)</td>
<td>(WRONG)</td>
</tr>
</tbody>
</table>

4. Scan the “2nd Set Complete” label.

**Note:**
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
Minimum Length:
This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:
1. Scan “Start Configuration” label.
2. Complete the 1st or 2nd set of fixed length configuration.
3. Scan the “Minimum Length Begin” label
4. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.
   i.e.: To Set length to 12
   Scan Decimal “1” then “scan “2”

   DO NOT SCAN “0” BEFORE THE Minimum Length from 1~9
   12 9 09 (CORRECT) (CORRECT) (WRONG)

5. Scan the “Minimum Length Complete” label

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
Group 18: Telepen Parameters

A. Reading Type

Full ASCII Mode

Compressed Numeric Mode

(*)

B. Check Digit Transmission

Do Not Calculate Check Digit

Calculate Check Digit & Transmit

Calculate Check Digit & Not Transmit

(*)
C. Set Up Code Length

There are two sets of fixed code length available.

To set the 1st set of fixed length:
1. Scan “Start Configuration” label.
2. Scan the “1st Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

   i.e.: To Set code length to 12
   Scan Decimal “1” then scan “2”

4. Scan the “1st Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
Group 18: Telepen Parameters

To set the 2nd set of fixed length:
1. Scan “Start Configuration” label.
2. Scan the “2nd Set Begin” label.
3. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

i.e.: To Set code length to 8
Scan Decimal “8” then continue

DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

| 8 (CORRECT) | 08 (WRONG) |

4. Scan the “2nd Set Complete” label.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.

2nd Set of Fix Length (2 Sets Available)
Group 18: Telepen Parameters

Minimum Length:
This function is available only when the 1st or 2nd Set of Fix Length is set.

To set the Minimum Length:
1. Scan “Start Configuration” label.
2. Complete the 1st or 2nd set of fixed length configuration.
3. Scan the “Minimum Length Begin” label
4. Go to the Decimal Value Tables (in Appendix A), scan the digits of label(s) that represents the length to be read.

i.e.: To Set length to 9
Scan Decimal “9” then continue

DO NOT SCAN “0” BEFORE THE LENGTH from 1~9

9 09
(CORRECT) (WRONG)
Scan the “Minimum Length Complete” label

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
### Group 19: GS1 Databar Parameters

**Start Configuration**

**End Configuration**

**Save Parameters**

### A. GS1 DataBar Omnidirectional

**Transmit Check Digit**

| (*) | Don’t Transmit Check Digit |

**Transmit Application ID**

| (*) | Don’t Transmit Application ID |

**Transmit Symbology ID**

| (*) | Don’t Transmit Symbology ID |
B. GS1 DataBar Limited Parameters

Transmit Check Digit

Don’t Transmit Check Digit

(*)

Transmit Application ID

Don’t Transmit Application ID

(*)

Transmit Symbology ID

Don’t Transmit Symbology ID

(*)

C. GS1 DataBar Expanded Parameters

Transmit Symbology ID

Don’t Transmit Symbology ID

(*)
<table>
<thead>
<tr>
<th>Language</th>
<th>Barcode</th>
<th>Language</th>
<th>Barcode</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (USA)</td>
<td></td>
<td>English (UK)</td>
<td></td>
</tr>
<tr>
<td>(*).</td>
<td></td>
<td>Italian</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Spanish</td>
<td></td>
</tr>
<tr>
<td>French</td>
<td></td>
<td>German</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Swedish</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Switzerland</td>
<td></td>
</tr>
<tr>
<td>Hungarian</td>
<td></td>
<td>Japanese</td>
<td></td>
</tr>
</tbody>
</table>

Group 20: Language Selection

Start Configuration

End Configuration

Save Parameters
<table>
<thead>
<tr>
<th>Country</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgium</td>
<td></td>
</tr>
<tr>
<td>Denmark</td>
<td></td>
</tr>
<tr>
<td>Turkey</td>
<td></td>
</tr>
<tr>
<td>Portugal</td>
<td></td>
</tr>
<tr>
<td>Netherlands</td>
<td></td>
</tr>
<tr>
<td>Reserved2</td>
<td></td>
</tr>
</tbody>
</table>
Group 21: Barcode ID

A. Pre-Defined Barcode ID

The Identifying Barcode ID is an optional code to identify the barcodes that user scanned.

With this function ON, a leading character will be added to the output string while scanning code; user may refer to the following table to know what kind of bar code is being scanned.

Please refer to the table below for Pre-Defined Barcode ID.

To Restore the Pre-Defined Barcode ID:
1. Scan “Start Configuration” label
2. Scan “Barcode ID ON” label.
3. Scan “Restore Pre-Defined Barcode ID” label.
   All Barcode IDs will restore to the pre-defined value.
Group 21: Barcode ID

Start Configuration

<table>
<thead>
<tr>
<th>Code Type</th>
<th>ID</th>
<th>Code Type</th>
<th>ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPC-A</td>
<td>A</td>
<td>China Postage</td>
<td>M</td>
</tr>
<tr>
<td>UPC-E</td>
<td>B</td>
<td>MSI/PLESSEY</td>
<td>N</td>
</tr>
<tr>
<td>EAN-8</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EAN-13</td>
<td>D</td>
<td>Code 2 of 6</td>
<td>P</td>
</tr>
<tr>
<td>CODE 39</td>
<td>E</td>
<td>LCD25</td>
<td>Q</td>
</tr>
<tr>
<td>CODE 128</td>
<td>F</td>
<td>Telepen</td>
<td>T</td>
</tr>
<tr>
<td>Interleave 25</td>
<td>G</td>
<td>GS1 Databar</td>
<td></td>
</tr>
<tr>
<td>Industrial 25</td>
<td>H</td>
<td>Omnidirectional</td>
<td></td>
</tr>
<tr>
<td>Matrix 25</td>
<td>I</td>
<td>GS1 DataBar</td>
<td></td>
</tr>
<tr>
<td>Codabar/NW7</td>
<td>J</td>
<td>Limited</td>
<td></td>
</tr>
<tr>
<td>CODE 93</td>
<td>K</td>
<td>GS1 DataBar</td>
<td></td>
</tr>
<tr>
<td>CODE 11</td>
<td>L</td>
<td>Expanded</td>
<td></td>
</tr>
</tbody>
</table>

Save Parameters

End Configuration

Pre-Defined Barcode ID Table

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
B. User Define Barcode ID

The user can change the Barcode ID with the User-Define Barcode ID instead.

**Note: Avoid Barcode ID Identity Conflict**
The User-Define Barcode ID will overwrite the original default ID value corresponding to the barcode.

**DO NOT** set two or more different Barcodes as one same Barcode ID. It is possible to have more than two symbologies which have same barcode ID and cause identity conflict.
Group 21: Barcode ID

To set the User-Define Barcode ID:

1. Scan “Start Configuration” label
2. Scan “Barcode ID ON” label.
3. Scan the symbologies label (see next page) to select the desired barcode type.
4. Go to the ASCII Tables in Appendix B, scan the label that represents the desired barcode ID.

Note:
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
Group 21: Barcode ID

Start Configuration

End Configuration

Save Parameters

UPC-A

UPC-E

EAN-13/JAN-13

EAN-8/JAN-8

CODE 39

CODE 128

CODABAR/NW7

Interleave 25

Industrial 25

Matrix 25

CODE 93
Group 22: Reading Level & Accuracy Settings

A. Reading Level

Bar Equals High

Bar Equals Low

B. Accuracy

1 Time

(*)

2 Times

3 Times

(*)

4 Times
Group 23: Buzzer Beep Tone

- **Start Configuration**
- **End Configuration**
- **Save Parameters**

**High (marked as *)**

**Medium**

**Low**

**Off**
Group 24: Reverse Output Characters

Warning:
This function will reverse all types of scanned barcode data. Please consult the technical personnel before configuration.
Group 25: Setup Barcode Deletion

To set the barcode deletion of output characters (1st~6th set available):

1. Scan “Start Configuration” label.
2. **Deletion Set Number:**
   Scan the set number label (1st set ~ 6th set).
3. **Symbologies Selection:**
   Scan the barcode type label (see next page).
4. **Set Character Position to be Deleted:**
   Go to the Decimal Value Tables (in Appendix A),
   scan the number of Character Position.

   Then scan the “**Complete**” label to confirm the Position number.

5. **Set Number of Characters to be Deleted:**
   Go to the Decimal Value Tables (in Appendix A),
   scan the number of Character Position.

   Then scan the “**Complete**” label to confirm the Position number.

**Note:**
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
Group 25: Setup Barcode Deletion

A. Select Deletion Set Number

1st Set

2nd Set

3rd Set

4th Set

5th Set

6th Set
Group 25: Setup Barcode Deletion

Start Configuration

End Configuration

Save Parameters

B. Symbologies Selection

UPCA

UPCE


EAN-8/JAN-8

CODE 39

CODE 128

CODABAR/N97

Interleave 25

Industrial 25

Matrix 25
Group 25: Setup Barcode Deletion

Start Configuration

End Configuration

Save Parameters

CODE 93

CODE 11

China Postage

MSI/PLESSEY

Telepen

Code 2 of 6

GS1 DataBar Omnidirectional

LCD25

GS1 DataBar Expanded

GS1 DataBar Limited
Group 25: Setup Barcode Deletion

C. Character Position to be Deleted

Please scan the number (refer to Appendix A) to set the character position to be deleted.

D. Number of Characters to be Deleted

Please scan the number (refer to Appendix A) to set the number of characters to be deleted.
Group 26: Setup Barcode Insertion

To set the insertion of output barcode data characters (1st~6th set available):

1. Scan “Start Configuration” label.
2. **Insertion Set Number:**
   Scan the set number label (1st set ~ 6th set).
3. **Symbologies Selection:**
   Scan the barcode type label (see next page).
4. **Set Character Position to be Inserted:**
   Go to the Decimal Value Tables (in Appendix A), scan the number of Character Position.

   Then scan the “Complete” label to confirm the Position number.

5. **Set Number of Characters to be Inserted:**
   Go to the Decimal Value Tables (in Appendix A), scan the number of Character Position.

   Then scan the “Complete” label to confirm the Position number.

**Note:**
Remember to scan “End Configuration” and “Save Parameters” labels to complete all the settings.
Group 26: Setup Barcode Insertion

A. Select Insertion Set Number

1st Set

2nd Set

3rd Set

4th Set

5th Set

6th Set
Group 26: Setup Barcode Insertion

B. Symbologies Selection

UPCA

UPCE


EAN-8/JAN-8

CODE 39

CODE 128

CODABAR/N97

Interleave 25

Industrial 25

Matrix 25
### Group 26: Setup Barcode Insertion

<table>
<thead>
<tr>
<th>Description</th>
<th>Barcode Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start Configuration</td>
<td>CODE 93</td>
</tr>
<tr>
<td>End Configuration</td>
<td>CODE 11</td>
</tr>
<tr>
<td>Save Parameters</td>
<td>CODE 11</td>
</tr>
<tr>
<td>CODE 93</td>
<td></td>
</tr>
<tr>
<td>China Postage</td>
<td></td>
</tr>
<tr>
<td>Telepen</td>
<td></td>
</tr>
<tr>
<td>GS1 DataBar Omnidirectional</td>
<td></td>
</tr>
<tr>
<td>GS1 DataBar Expanded</td>
<td></td>
</tr>
<tr>
<td>MSI/PLESSEY</td>
<td></td>
</tr>
<tr>
<td>Code 2 of 6</td>
<td></td>
</tr>
<tr>
<td>LCD25</td>
<td></td>
</tr>
<tr>
<td>GS1 DataBar Limited</td>
<td></td>
</tr>
</tbody>
</table>
Group 26: Setup Barcode Insertion

Start Configuration

End Configuration

Save Parameters

None

All Codes

C. Character Position to be Inserted

Please scan the number (refer to Appendix A) to set the character position to be inserted.

D. Number of Characters to be Inserted

Please scan the number (refer to Appendix A) to set the number of characters to be inserted.
## Appendix

### Appendix A. Decimal Value Table

<table>
<thead>
<tr>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>7</td>
</tr>
<tr>
<td>8</td>
</tr>
<tr>
<td>9</td>
</tr>
</tbody>
</table>
### Appendix B. ASCII Table

<table>
<thead>
<tr>
<th>NULL</th>
<th>SOH</th>
</tr>
</thead>
<tbody>
<tr>
<td>STX</td>
<td></td>
</tr>
<tr>
<td>ETX</td>
<td></td>
</tr>
<tr>
<td>EOT</td>
<td></td>
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<td>ACK</td>
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<tr>
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<tr>
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<tr>
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<tr>
<td>VT</td>
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</tr>
<tr>
<td>FF</td>
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</tr>
<tr>
<td>CR</td>
<td></td>
</tr>
<tr>
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</tr>
<tr>
<td>SI</td>
<td></td>
</tr>
<tr>
<td>DLE</td>
<td></td>
</tr>
<tr>
<td>DC1</td>
<td></td>
</tr>
<tr>
<td>DC2</td>
<td></td>
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<tr>
<td>DC3</td>
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<tr>
<td>DC4</td>
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</table>
Appendix C. Function Code for PC XT/AT

F1

F2

F3

F4

F5

F6

F7

F8

F9

F10

F11

F12
Appendix E. Pin Assignment

RS-232 Signal Output

<table>
<thead>
<tr>
<th>Function</th>
<th>DB9F+DC (or without DC)</th>
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<td>TXD</td>
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</tr>
<tr>
<td>RXD</td>
<td>3</td>
</tr>
<tr>
<td>GND</td>
<td>5</td>
</tr>
<tr>
<td>CTS</td>
<td>7</td>
</tr>
<tr>
<td>RTS</td>
<td>8</td>
</tr>
<tr>
<td>VCC+5V</td>
<td>9</td>
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</table>

Note: For PC applications, a cable with DC power jack is required to accept external power input.

Keyboard Signal Output

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<tr>
<th>Function</th>
<th>Din 5M</th>
<th>Din5F</th>
<th>Mini-Din6M</th>
<th>Mini-Din6F</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>PC_DATA</td>
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<td>1</td>
<td>---</td>
</tr>
<tr>
<td>KB_CLK</td>
<td>---</td>
<td>1</td>
<td>---</td>
<td>5</td>
</tr>
<tr>
<td>KB_DATA</td>
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<td>---</td>
<td>1</td>
</tr>
<tr>
<td>GND</td>
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<td>4</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>VCC+5V</td>
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<td>5</td>
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# USB Signal Output

<table>
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<th>USB-A</th>
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<tbody>
<tr>
<td>VCC</td>
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<tr>
<td>D-</td>
<td>2</td>
</tr>
<tr>
<td>D+</td>
<td>3</td>
</tr>
<tr>
<td>GND</td>
<td>4</td>
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</tbody>
</table>

![USB Plug Diagram]