# CCD

## Bar Code Reader

# User's Manual

The wire includes data transmission and power supply, it is the bridge between reader and host, the connection wire is specially produced for barcode reader, its toughness accords with common usage requirement with fireproofing grade. But please pay attention to the following two points when users operate the reader:

1) Two terminals of wire(the reader port connection, the host port connection) are faintish, although the wire is strengthened structurally, users still need to notice: the connection terminals are often folded or pressed, this will result in breaking the inside wires, so the reader can't work normally.

2) Two terminals of wire(the reader port connection, the host port connection) are the fixed parts of the wire, Please not pull it forcibly to result in breakage and damage of the wire.



# Catalogue

**Appendix E**

**Some common ways to Keep the reader in good condition**

1. Keep the protection flake clean

1) Protection flake: It's used for keeping dust or something dirty from entering into the inside reader, so cleaning the protection flake regularly is necessary to ensure accurately reading barcode.

2) The protection flake is not suitable for using rough paper or cloth to wipe.

3) Clean protection flake occasion: Be not able to scan barcode rightly

4) The ways of cleaning protection flake:

i) Common maintain ways: Get a piece of clean cotton cloth (or a piece of clean paper) with adding a little liquid (clean water. alcohol) to wipe the transparent flake, note: too much liquid will be easily inleak the inside reader and result in damaging the hardware of reader.

ii)Deep maintain ways

a. First, get hold of the middle part of the product in left hand, put right hand into the two sides of rubber sheath and take down gently.

b. Get a piece of clean paper or cotton cloth with adding a little alcohol to swipe gently.

2. The reader noumenon

1) If the noumenon is dirty, please get a piece of clean cotton cloth with adding a little liquid (clean water, alcohol)to clean out. Note: Too much liquid will be easily inleak the inside reader and result in damaging the hardware of reader.

2) All parts of the reader noumunon are fixed steadily, but it is quite necessary for users to use it carefully, it will still be damaged if suffered severely impact.

3. The reader's connection wire

8 Q: Why can't the reader download/upload data?

A: a. Please first turn on functions of the notebook PC if using the notebook PC.

b. If using WinNT/2000/XP, please login out, then login in and enactment "setup manufacture parameter" and "save the setting parameter", them exit download model and remove the reader to insert afresh, and perform download function again.

c. Please confirm using correct COM port and communication parameter when using RS232 interface; or check if connection wire is OK; or inquire about software edition and discuss with engineer

d. Please confirm connecting keyboard or replace another keyboard; or test with different operating system; or inquire about software edition and discuss with engineer.



# Barcode reader setup manual

## Setup procedures are as follows:

**1、 Scan "Begin setting"**
**2、 Scan your required function and its corresponding barcode**
**3、 Scan "End setting"**
**4、 All the setting parameters will be saved after scanning "Save setting parameter"**
**5、 All the settings will be returned to the manufacture default parameters after scanning "Setup the manufacture parameters"**

## Attention:

**1、 This manual is available for a special barcode reader which produced by our company**
**2、 The symbol '*' means default condition**
3、 **All the settings will be saved after scanning "Save the setting parameters" barcode if needed, otherwise the settings will be missing and return to the last settings that you saved after off power**

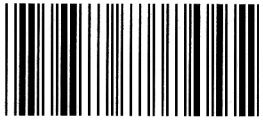
**Setup main menu**

Begin setting

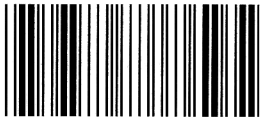
End setting

Cancel setting

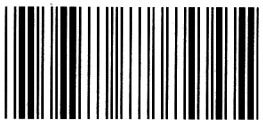
Return to the manufacture setting



Save setting parameter

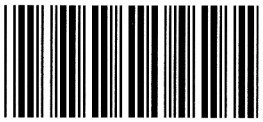


Return to the saved setting parameter

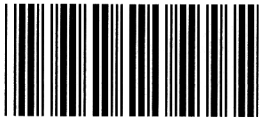


**Interfaces setup**

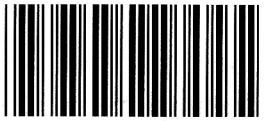
*Keyboard wedge



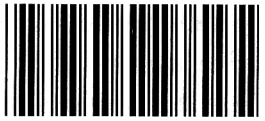
RS232



Emulational lightpen



OCIA



USB



receive data from the decoder?

A: Because the reader usually adds a attached character at the end of decoding data (Terminal setup), this character is so-called controlling character (ASCII 00h-1FH) and not usually displayed on the screen. The receiving software mainly uses it to do the succedent work, so the receiving software will be displayed on the screen not the reader, and so there is different in skip line when using different software, this is normal case. You can change this situation just through modifying the settings of terminal equipment.

5. Q: Why is there no start-up sound after start up power supply?

   A: Check if connection wire is in good condition, if the connection wire is OK, please check if the reader's interface is also OK. （Suggest the user to test in another connection wire, or test in different equipments and in the same connection wire）.

6. Q: The reader starts up, but the barcode can't be read or can be read with some difficulty?

   A: Choose those barcode with clear printing or easy-to-read to scan. Please test after enactment "setup factory parameter" if sometimes readable or not readable. If the matter exists unceasingly, please look at the inside optics system equipment with eyes (let LED is OFF before looking) to see if there is something dirty attaching the surface of reflector or protection flake, if there is something dirty, get a piece of cotton cloth to wipe it, if the matter still can't be solved, please send it to the manufacturer to mend.

7 Q: Why can't the keyboard work after the reader starts up?

   A: Please get another type keyboard or host to test. This is consistent condition if doable; and enactment "setup factory parameter" if undoable, the reader is inserted and pulled afresh or use another wire to test, if the matter still can't be solved, please sent it to the manufacturer to mend.

## Appendix D

### General fault elimination of barcode reader

1. Q: Why will some data be missed out when using Keyboard wedge interface?

   A: There is important relation between Keyboard wedge interface and the receiving speed of host computer. Generally this case arises, it's because the speed of the reader's transmitting data can't cooperate with the host. The solution is to change the character time-delay of the reader.

2. Q: Why are there no data of decoding on the screen or disorderly barcode when using RS232 interface?

   A:

   a. Please confirm if the reader has been setup RS232 interface first

   b. Confirm setup RS232 interface communication parameter is in correspondence with the communication software of the host

   For example 9600, N, 8,1

   c. Please confirm if setup handshake protocol

   d. The host need to have communication software which receives data when using RS232 interface, and it can't receive the data from the reader in common documents processing software. If under Microsoft Windows system, you can test it in super terminal.

3. Q: The host can't normally work when using RS232 interface to decode only once?

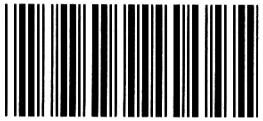
   A: Please check if the handshake protocol is ON. If handshake protocol is ON, the host has no corresponding communication software, the reader can't continue to work because it has to wait the host's replying data, please try closing the handshake protocol and test

4. Q: Why is there different in skip line when using different software to

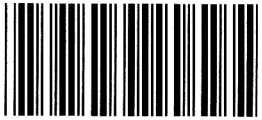


**Memory function**

*ON

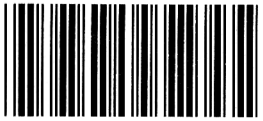


OFF

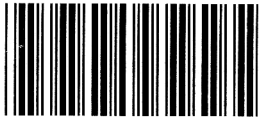


**Read mode setup**

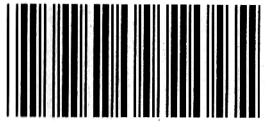
*Turn off light source after reading



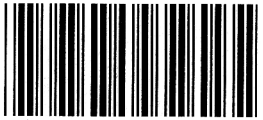
Trigger ON/OFF



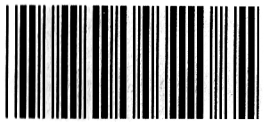
Continue scan/Trigger Disable



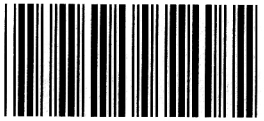
Twinkle



Continue scan/Auto-inductive Enable



Twinkle/ Auto- inductive Enable



**Note:**

1、Trigger ON/OFF: Light source will shine when press switch, otherwise light source won't shine, Keep pressing until read some information, then the light source will go out.

2、Continue scan/Trigger Disable: The same information will be only read once unless move to other information, then move the reader to the barcode again and scan.

3、Twinkle: The same information will be only read once unless move to other information, then move the reader to above of the barcode/no information in front of the reader, the light source will start to twinkle in 6 seconds.

4、Continue scan/Auto-inductive Enable: The same information

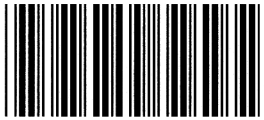
will be only read once unless move to other information, then move the scanner to the barcode again and read. In addition, power supply turns on automatically and light source keeps long shine（The switch can't control power supply）

5、Twinkle/Auto-inductive Enable：The same information will be only read once unless move to other information, light source will start to twinkle in 6 seconds（The switch can control power supply）

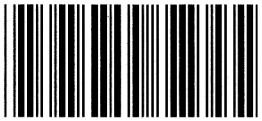
**RS232 parameters setup**

Baud rate

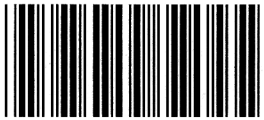
600



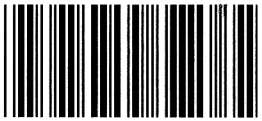
1200



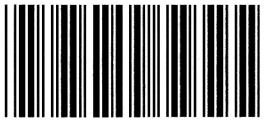
2400



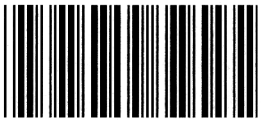
4800



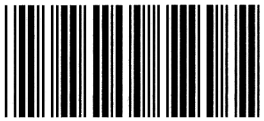
*9600



19200

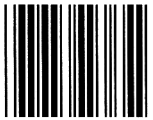


38400

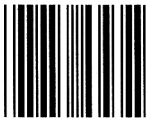




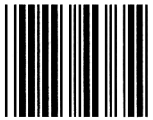
Insert



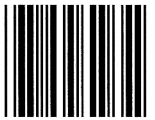
Delete



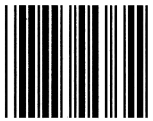
Page Up



Page Down

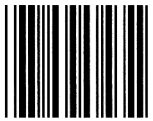


Home

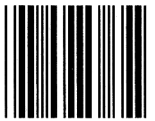


End

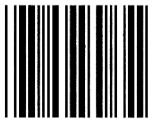
Left



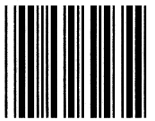
Right



Down



Up



## Appendix C

### Function keys Table

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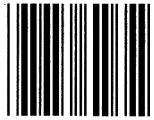
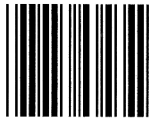


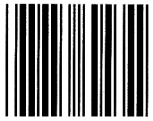
F2

F3

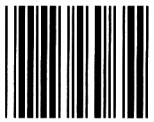


F4

F5



F6



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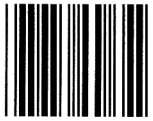

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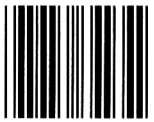

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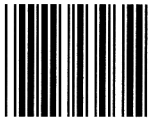
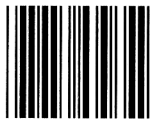


F10



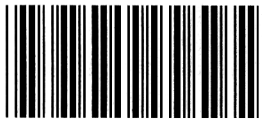
F11

F12

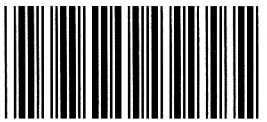


**Data bit**

7



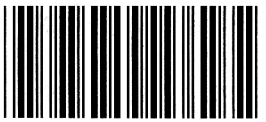
*8



**Stop bit**

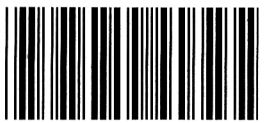
*1

2

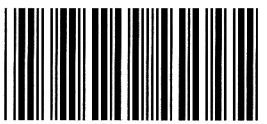


**Parity bit**

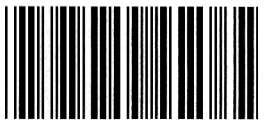
*None



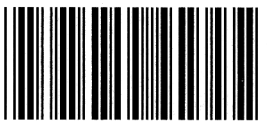
Even



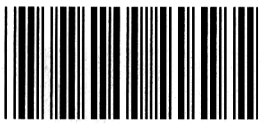
Odd



Mark



Space



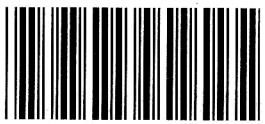
**Handshake protocol**

Note：Exchange pre-setup control signals or charactes' programme when two installations or systems build connections.。

RTS/CTS Enable

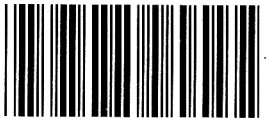
*RTS/CTS Disable

ACK/NAK Enable

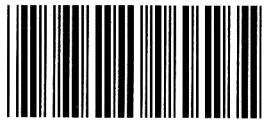


*ACK/NAK Disable

XON/OFF Enable



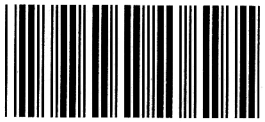
*XON/OFF Disable



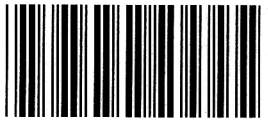
**Keyboard wedge parameters setup**

**Terminal types**

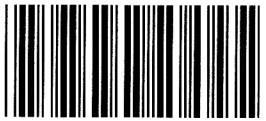
*IBM PC/AT,PS/2



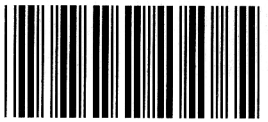
IBM PC/XT



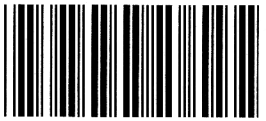
IBM PS/2 25,30



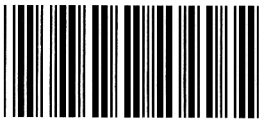
NEC 9800



Apple Desktop Bus(ADB)

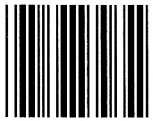


IBM 5550





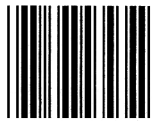
x



y

z

{



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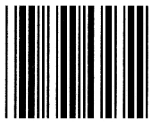

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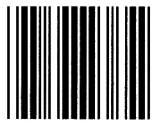

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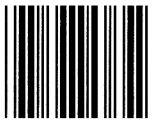
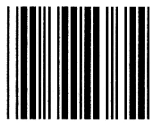
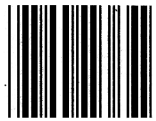


DEL

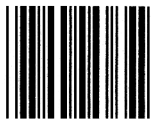


l

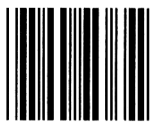


m

n

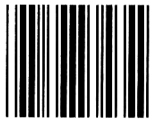


o

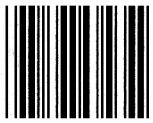


p

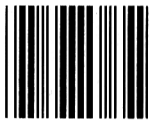
q



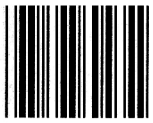
r



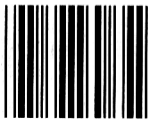
s



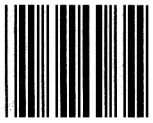
t



u



v



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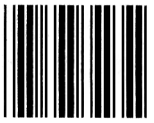
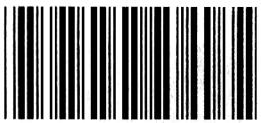
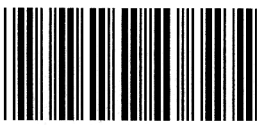




IBM 122 Key (1)



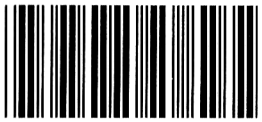
IBM 102 Key



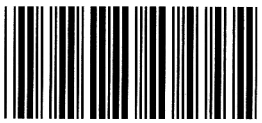
IBM 122 Key (2)

**Capital/small letter**

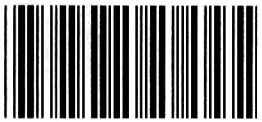
*Non-change



Capital

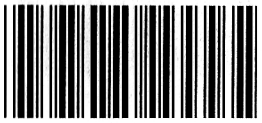


Small letter

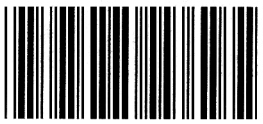


**ALT mode**

ON



*OFF

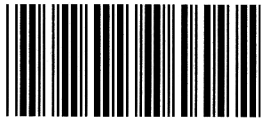


**Explanation:**

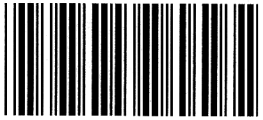
ALT keystroke function: When this function is ON, the original setting character model of barcode will not be changed in spite of the keyboard lock is ON or OFF, that's to say this function will not be affected by the keyboard lock, but it's only available for PC.

**Figure keystrokes**

ON



*OFF



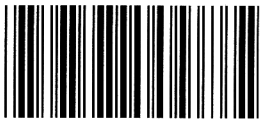
**Explanation:**

Figure keystrokes: Output by figure keystrokes' scanning barcode after this function is ON.

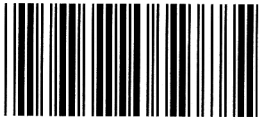
**Output charaters parameters definition**

**End symbol**

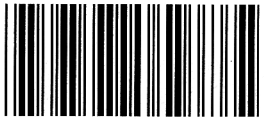
*CR+LF



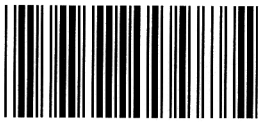
None



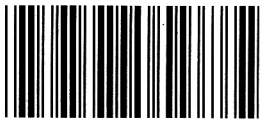
CR



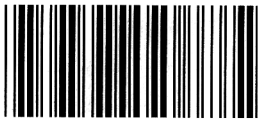
LF



Space

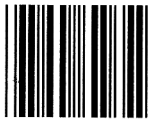


HT(TAB)

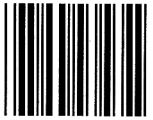




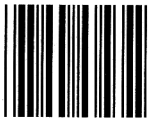
.



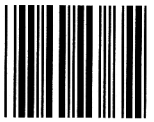
a



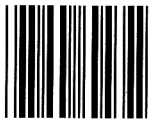
b



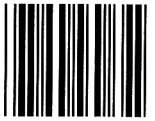
c



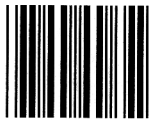
d



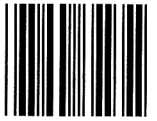
e



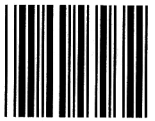
f



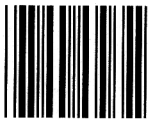
g



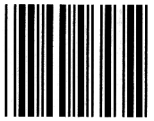
h



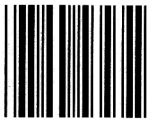
i



j



k

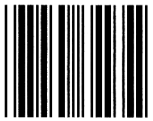


T

U

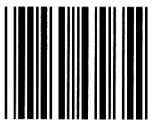
V

W



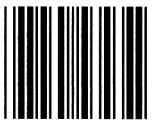
X

Y



Z

[



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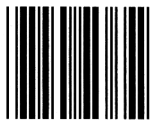




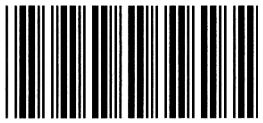
STX-ETX

**Explanation:**

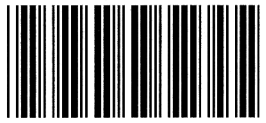
STX-ETX: Only available for RS-232. Add STX's ASCII before output barcode and ETX's ASCII after output barcode

**Intercharacter time-delay**

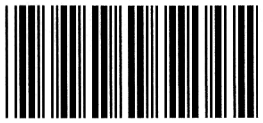
*0 millisecond



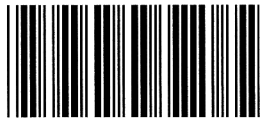
5 millisecond



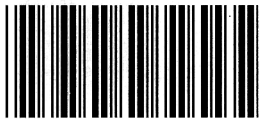
10 millisecond



25 millisecond

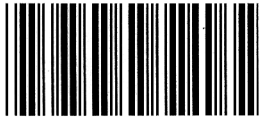


50 millisecond



100 millisecond

200 millisecond



300 millisecond

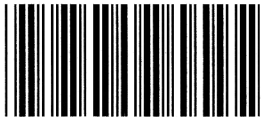
**Explanation:**

Put off the time of intercharacter transmission

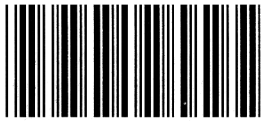
**Emulational lightpen parameters definition**

**TTL signal statement**

*BAR denotes high electric frenquency



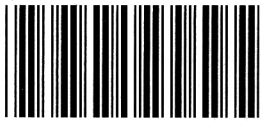
BAR denotes low electric frenquency



**Scan rate**

*Fast

Slow

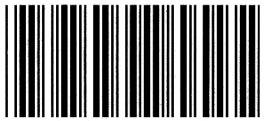


**Output format**

*CODE 39

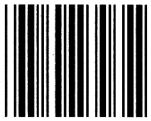
CODE 39 corpora

Output original barcode format

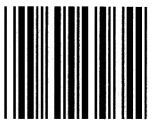




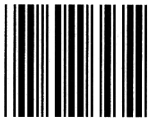
H



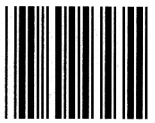
I



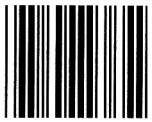
J



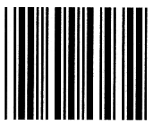
K



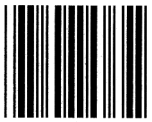
L



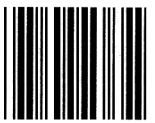
M



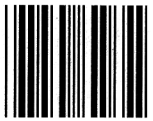
N



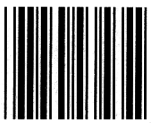
O



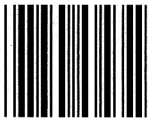
P



Q



R



S

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E

D

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B

C

F

G



**Explanation：Output by** CODE39

**Barcode parameters definition**

**Choose identified barcode**

*UPC-A Enable

Disable

*UPC-E Enable

Disable

*EAN-13/JAN-13 Enable

Disable

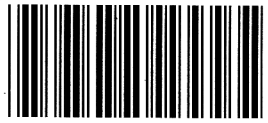
*EAN-8/JAN-8 Enable

Disable

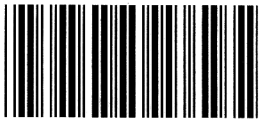
*CODE 39 Enable

Disable

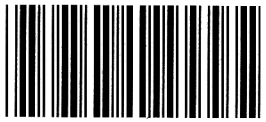
*CODE 128 Enable



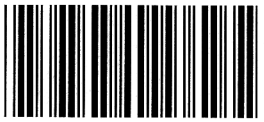
Disable



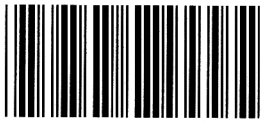
*CODEBAR/NW7 Enable



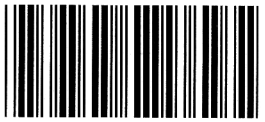
Disable



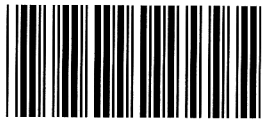
*Interleave 25 Enable



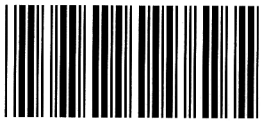
Disable



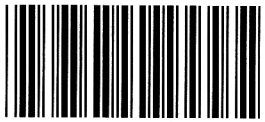
Industial 25 Enable



* Disable

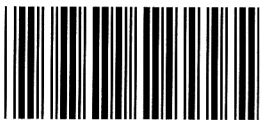


Matrix 25 Enable

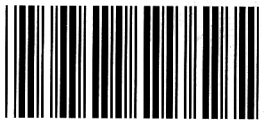


* Disable

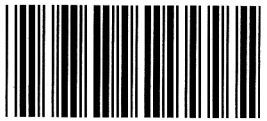
CODE 93 Enable



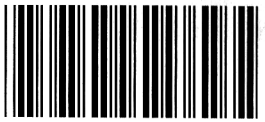
* Disable



CODE 11 Enable

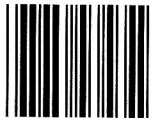


* Disable

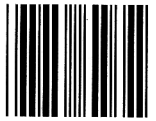




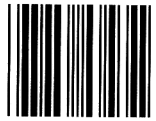
1



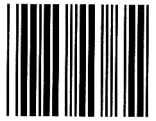
0



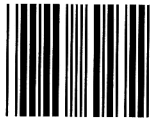
2



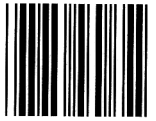
3



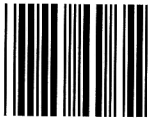
4



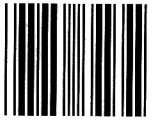
5



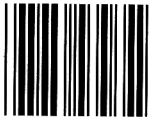
6



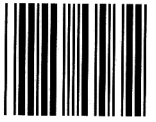
7



8



9



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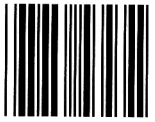

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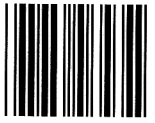

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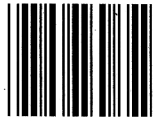

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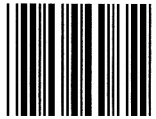

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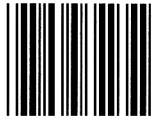

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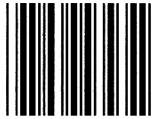

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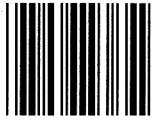

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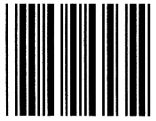

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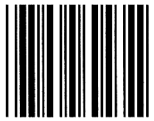
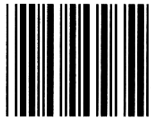


(

)



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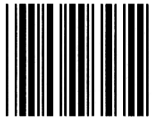

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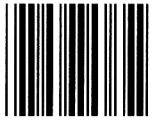

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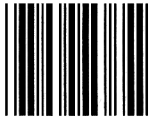
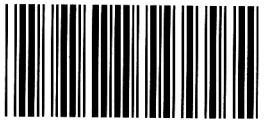
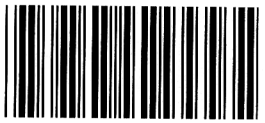




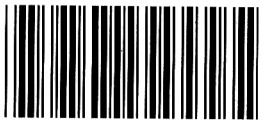
China post Enable



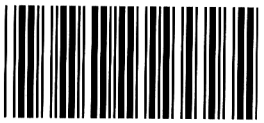
MSI/PLESSEY Enable



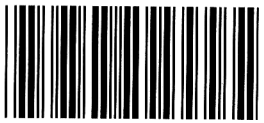
BC412 Enable



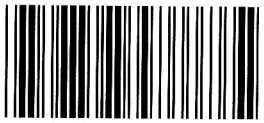
CODE 2 OF 6 Enable



TELEPEN Enable



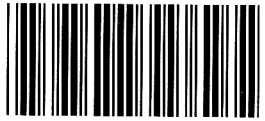
All barcodes Enable



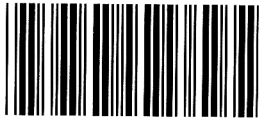
**UPC/EAN/JAN parameters definition**

**Choose barcode types**

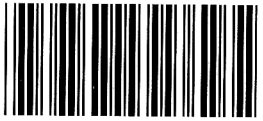
* Disable



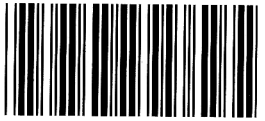
* Disable



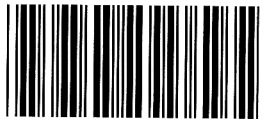
* Disable



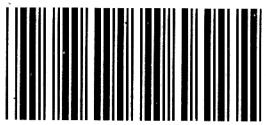
* Disable



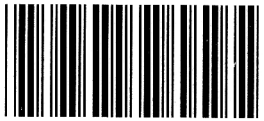
* Disable



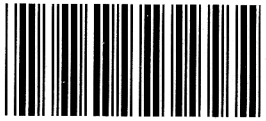
UPC-A=EAN 13 Enable



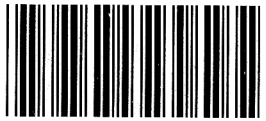
*Disable



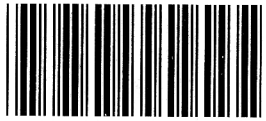
ISBN Enable



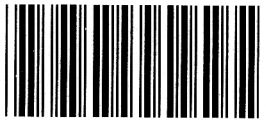
* Disable



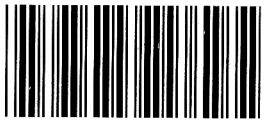
ISSN Enable



* Disable



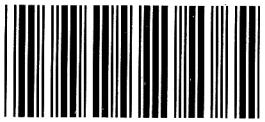
With complementary bit decode Enable



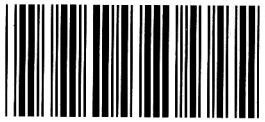
*Auto-identify complementary bit

**Complementary bit setup**

*No transmit



Transmit 2 charaters

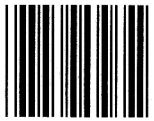




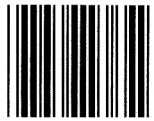
CAN

SUB

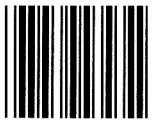
EM



FS

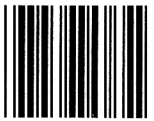


ESC

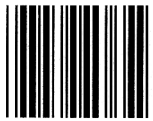


GS

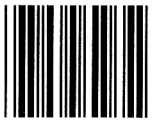
RS



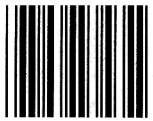
US



Space

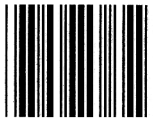


!

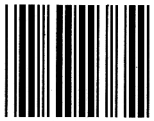


“

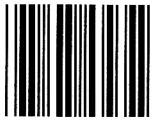
#



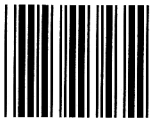
FF



CR

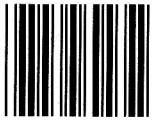


DC1

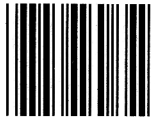


DC2

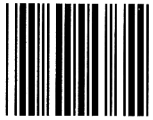
DC4



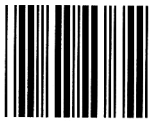
NAK



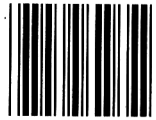
SO



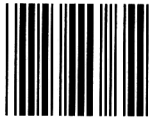
SI



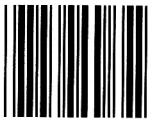
DLE



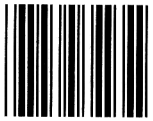
DC3



SYN

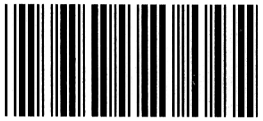


ETB

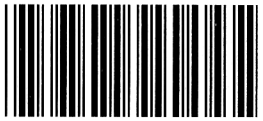




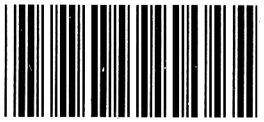
Transmit 5 charaters



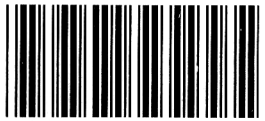
UPC-A transmit parity bit Enable



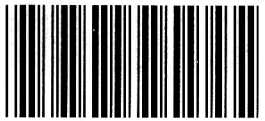
UPC-E transmit parity bit Enable



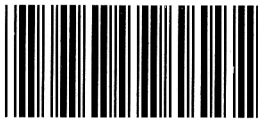
EAN-8 transmit parity bit Enable



EAN-13 transmit parity bit Enable



ISSN transmit parity bit Enable



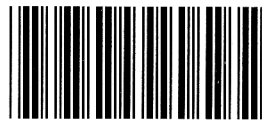
**CODE 39 parameters definition**

**Choose barcode types**

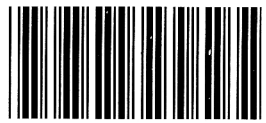
Transmit 2 or 5 charaters

Disable

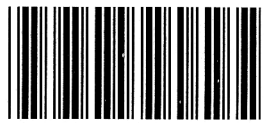
Disable



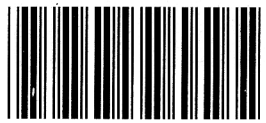
Disable



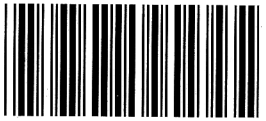
Disable



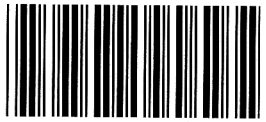
Disable



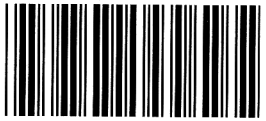
*Standard



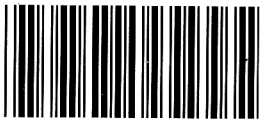
CODE39 Corpora



*Italy Medicine Bureau barcode Disable

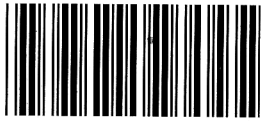


Italy Medicine Bureau barcode Enable

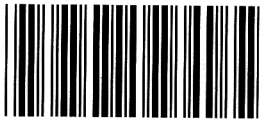


**Transmit parity bit setup**

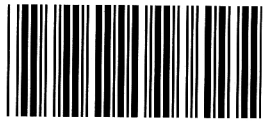
*No calculate parity bit



Calculate parity bit

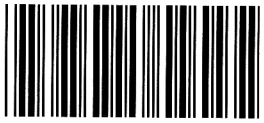


Calculate parity bit、No transmit

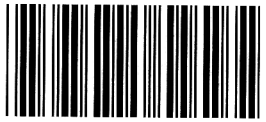


**Output begin/end character setup（begin/end are '*'）**

ON



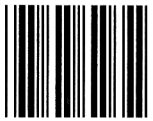
*OFF





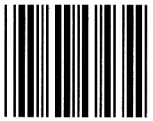
**ASCII Table**

Space

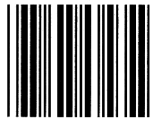


SOH

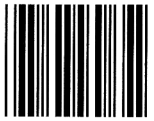
STX



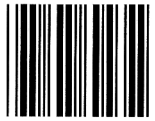
ETX



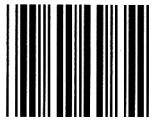
ENQ



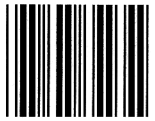
EOT



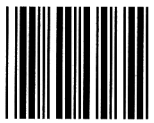
ACK



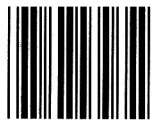
BEL



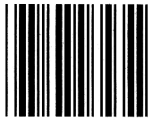
HT



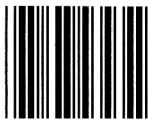
BS



LF

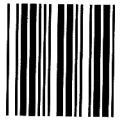


VT

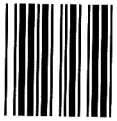


**Algorism number Table**

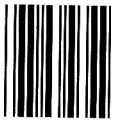
0



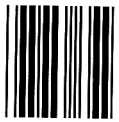
1



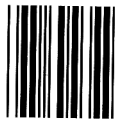
2



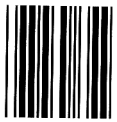
3



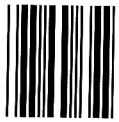
4



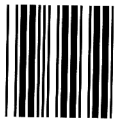
5



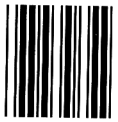
6



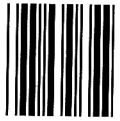
7



8



9

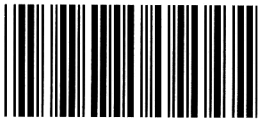


**Appendix B**

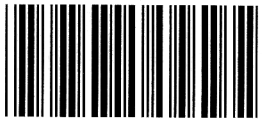


Decoding symbol "*" (CODE 39)

ON



*OFF

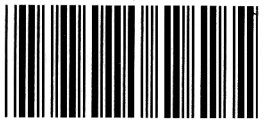


**Barcode length setup**

*Non-fixed length

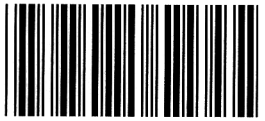
**Fixed length (Be able to setup two groups)**

1、Gruoup 1 Begin

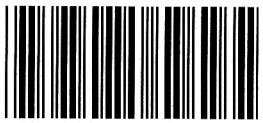


2、Algorism number (Appendix A)

3、Gruoup 1 End

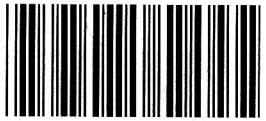


1、Gruoup 2 Begin



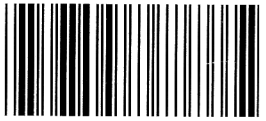
2、Algorism number (Appendix A)

3、Gruoup 2 End



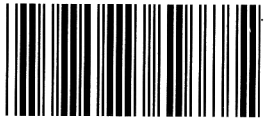
**Minimum length**

1、Begin



2、 Algorism number（Appendix A）

3、End



**Explanation：**

1、'Non-fixed length' denotes that output characters are the same as barcode characters and no limiting

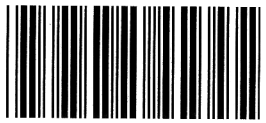
2、'Fixed length' denotes that the setting barcode length is fixed, barcode characters are the same as the set value, otherwise output will be disable

3、'Minimum length' setup characters' minimum length. Output will be disable if the set value is less than it.

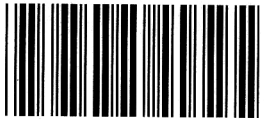
**CODE 128 parameters definition**

**Transmit parity bit setup**

No calculate parity bit



Calculate and transmit parity bit





None

**Insert character location**

1、Algorism number

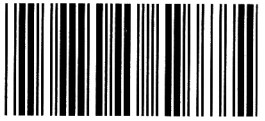
2、End

（Appendix A）

**Insert characters**

1、ASCII table、Function keys table

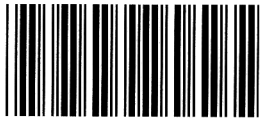
2、End



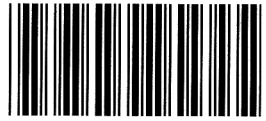
（Appendix B、Appendix C）

**Setup infrared ray inductor**

*OFF

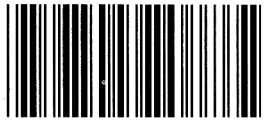


ON

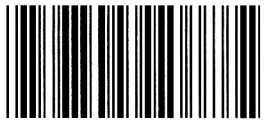


**Appendix A**

CODE 39



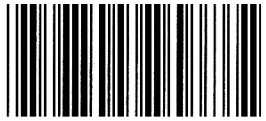
CODE 128



CODABAR/NW7

INTERLEAVE 25

INDUSTRIAL25



MATRIX25

CODE 93

CODE 11

China post barcode

MSI/PLESSEY

BC 412

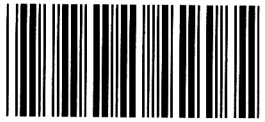
CODE 2 OF 6

TELEPEN

All barcodes

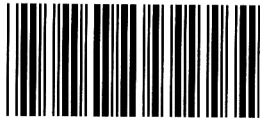


*Calculate parity bit， no transmit

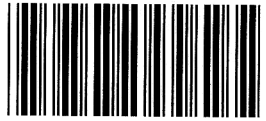


**Append NC2 setup**

ON



*OFF



**Explanation:**

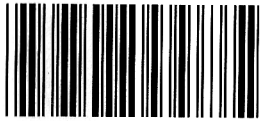
'FNC2' is CODE128 special cluster-connected function

Setup 'ON' means to read CODE 128 and be able to cluster-connect next CODE128

Setup 'OFF' means to just read the odd CODE 128

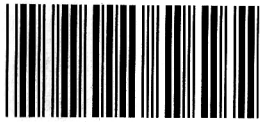
**Barcode length setup**

*Non-fixed length



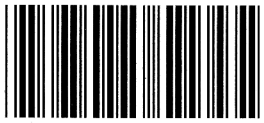
**Fixed length（Be able to setup two groups）**

1、Group 1 Begin

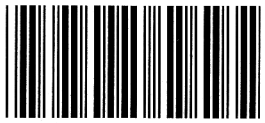


2、 Algorism number（Appendix A）

3、Group 1 End

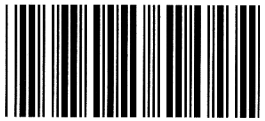


1、Group 2 Begin



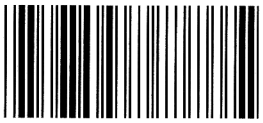
2、 Algorism number（Appendix A）

3、Group 2 End



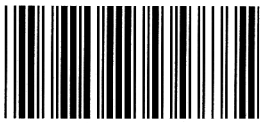
**Minimum length**

1、Begin



2、 Algorism number（Appendix A）

3、End



**Explanation:**

1、'Non-fixed length' denotes that output characters are the same as barcode characters and no limiting

2、'Fixed length' denotes that the setting barcode length is fixed, barcode characters are the same as the set value, otherwise output will be disable

3、'Minimum length' sets characters' minimum length. Output will be disable if the set value is less than it.

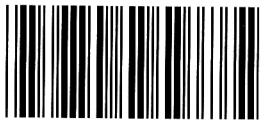


6、 Scan the "end" barcode of "insert character";

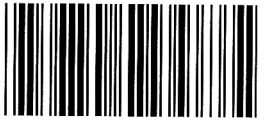
7、 Repeat the above steps, you can setup another group inserting definition.

**Choose inserting group definition**

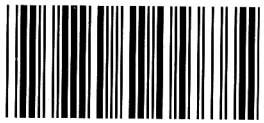
Group 1



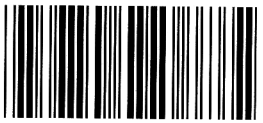
Group 2



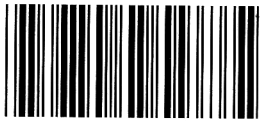
Group 3



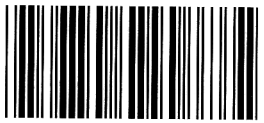
Group 4



Group 5

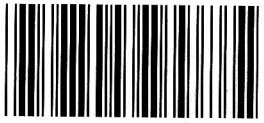


Group 6



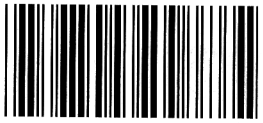
**Choose barcode type definition**

UPC-A

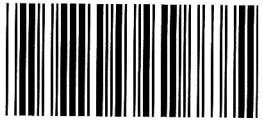


UPC-E

EAN-13/JAN-13



EAN-8/JAN-8



None

**Deleting character location**

1、Algorism number

2、End

(Appendix A)

**Delete character quantity**

1、Algorism number

2、End

(Appendix A)

**Insert character definition**

**Setup inserting characters**

**Setup a certain barcode（Be able to setup 6 groups data in total simultaneously）**

**Insert several charaters from start with a certain character**

**According to the following steps:**

1、Scan corresponding group barcode;

2、Scan corresponding barcode type;

3、Scan the barcode of representating "insert character location" in appendix A;

4、Scan the "end" barcode of "insert character location";

5、Scan the barcode of representating "insert character" in appendix B or appendix B;



**INTERLEAVE 25 parameter definition**

**Transmit parity bit setup**

*No calculate parity bit

Calculate and transmit parity bit

Calculate parity bit, no transmit

**Parity number setup**

*Even

Odd

**Brazil bank barcode**

*OFF

ON

**Barcode length setup**

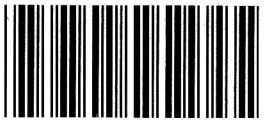
*Non-fixed length

**Fixed length（Be able to setup two groups）**

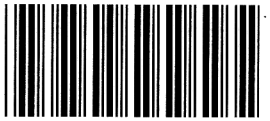
1、Group 1 Begin

2、 Algorism number（Appendix A）

3、Group 1 End

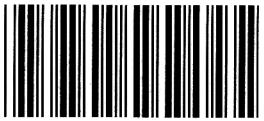


1、Group 2 Begin



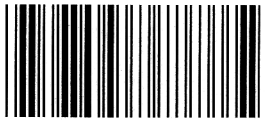
2、Algorism number（Appendix A）

3、Group 2 End



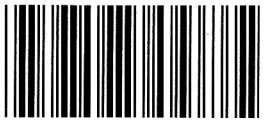
**Minimum length**

1、Begin



2、 Algorism number（Appendix A）

3、End

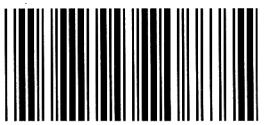


**Explanation:** 1、'Non-fixed length' denotes that output characters are the same as barcode characters and no limiting

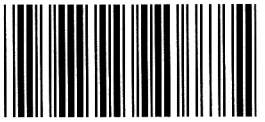
2、'Fixed length' denotes that the setting barcode length is fixed, barcode characters are the same as the set value, otherwise output will be disable



CODE 39



CODE 128



CODABAR/NW7

INTERLEAVE 25

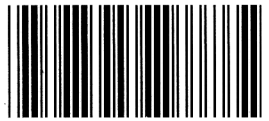
INDUSTRIAL 25

MATRIX25

CODE 93

CODE 11

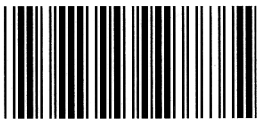
China post barcode



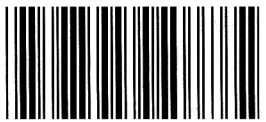
MSI/PLESSEY

BC412

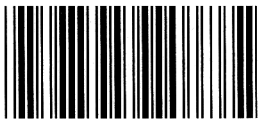
CODE 2 OF 6



TELEPEN



All barcodes



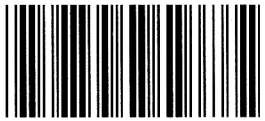
5、Scan the barcode of representating "delete character quantity" in appendix A;

6、Scan the "end" barcode of "deleting character quantity"。

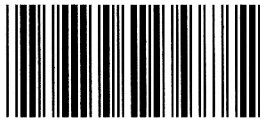
7、Repeat the above steps, you can setup another group deleting definition.

**Choose deleting group definition**

Gruoup 1



Group 2



Group 3

Group 4

Group 5

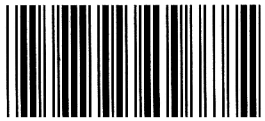
Group 6

**Choose barcode type definition**

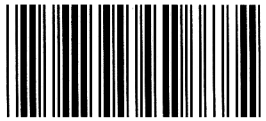
UPC-A

UPC-E

EAN-13/JAN-13



EAN-8/JAN-8



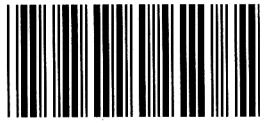


3、'Minimum length' sets characters' minimum length. Output will be disable if the set value is less than it.

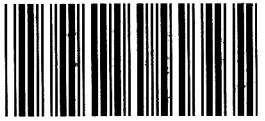
**INDUSTRIAL 25 Parameter definition**

**Transmit parity bit setup**

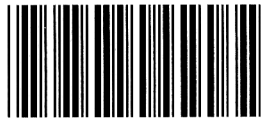
*No calculate parity bit



Calculate and transmit parity bit

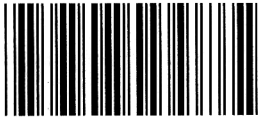


Calculate parity bit, no transmit



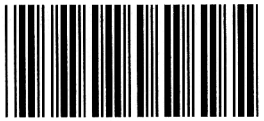
**Barcode length setup**

*Non-fixed length



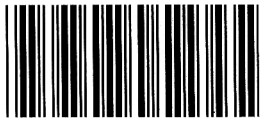
Fixed length（**Be able to setup two groups**）

1、Group 1 Begin

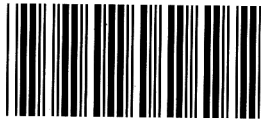


2、 Algorism number（Appendix A）

3、Group 1 End

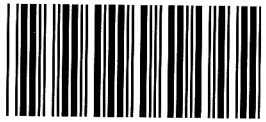


1、Group 2 Begin



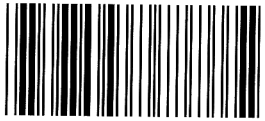
2、 Algorism number（Appendix A）

3、Group 2 End



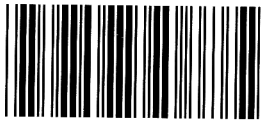
**Minimum length**

1、Begin



2、 Algorism number（Appendix A）

3、End



**Explanation:**

1、'Non-fixed length' denotes that output characters are the same as barcode characters and no limiting

2、'Fixed length' denotes that the setting barcode length is fixed, barcode characters are the same as the set value, otherwise output will be disable

3、'Minimum length' sets characters' minimum length. Output will be disable if the set value is less than it.

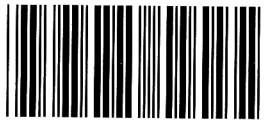
**MARRIX 25 Parameter definition**

**Transmit parity bit setup**

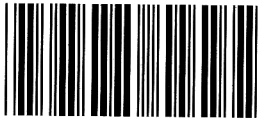


**Notebook function definition**

ON

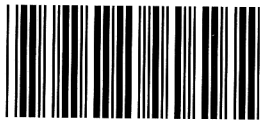


*OFF

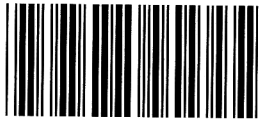


**Inverted output character definition**

*OFF



ON



**Explanation:**

Barcode data will be output in inverted.

For example: a barcode data is: 12345, the output result is 54321 when the function is ON..

**Delete output character definition**

**Setup deleting character**

**Setup a certain barcode（Be able to setup 6 groups data in total simultaneously）**

**Delete some characters from start with a certain characters.**

**According to the following steps:**

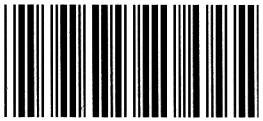
1、 Scan corresponding group barcode;

2、 Scan corresponding barcode type;

3、 Scan the barcode of representating "delete character location" in appendix A;

4、 Scan the "end " barcode of "deleting character location";

3 Times



4 Times

**Explanation: The delayed time between two data output**

1. Reduce the rate of mis-decoding.
2. This option is repeating decoding times. The more decoding, the more accurate of output information, but the time of decoding will increase accordingly at the same time.

**Beep volume definition**

*High

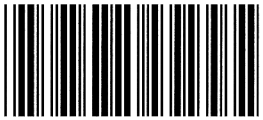
Medium

Low

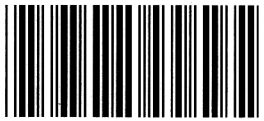
OFF

**Continue distinguish delicacy definition**

*Fast



Slow

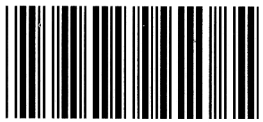


**Explanation:**

Fast / Slow is the decoder speed under continue mode.

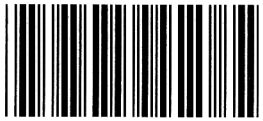


*No calculate parity bit



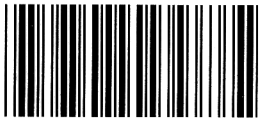
Calculate and transmit parity bit

Calculate parity bit, no transmit



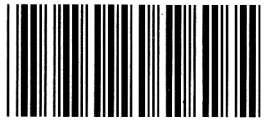
Barcode length setup

*Non-fixed length



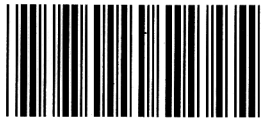
Fixed length **(Be able to setup two groups)**

1、Group 1 Begin

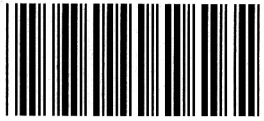


2、 Algorism number (Appendix A))

3、Group 1 End

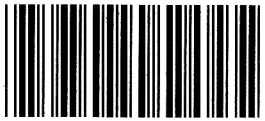


1、Group 2 Begin



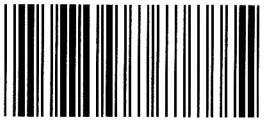
2、 Algorism number (Appendix A)

3、Group 2 End



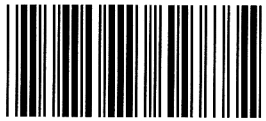
**Minimum length**

1、Begin



2、Algorism number（Appendix A）

3、End



**Explanation:**

1、'Non-fixed length' denotes that output characters are the same as barcode characters and no limiting

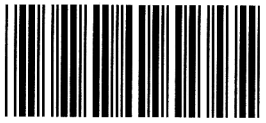
2、'Fixed length' denotes that the setting barcode length is fixed, barcode characters are the same as the set value, otherwise output will be disable

3、'Minimum length' sets characters' minimum length. Output will be disable if the set value is less than it

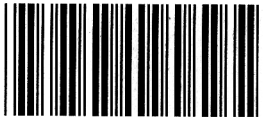
**CODABAR/NW7 Parameter definition**

**Begin/End character setup before transmitting**

ON



*OFF

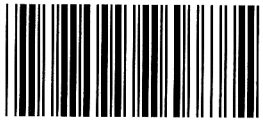




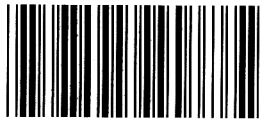
CODABAR/NW7

INTERLEAVE 25

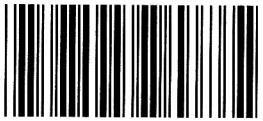
INDUSTRIAL 25



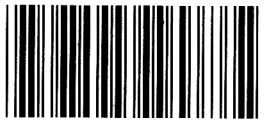
MATRIX 25



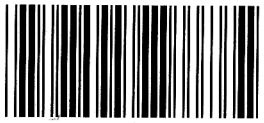
CODE 93



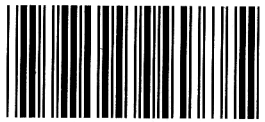
CODE 11



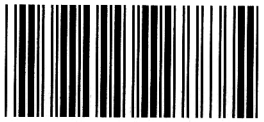
China post barcode



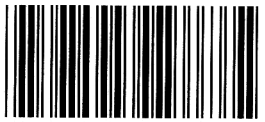
MSI/PLESSEY



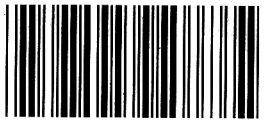
BC412



CODE 2 OF 6

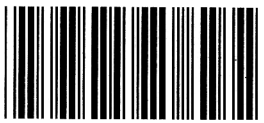


TELEPEN

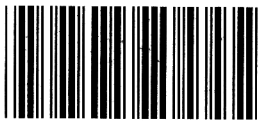


**Precision definition**

*Once



Twice



Default parameter

**Explanation:**

When this function is ON, there is a character which appends after decoding code and before code each time. You can judge the barcode type which are decoded according to the following representations.

| Barcode type | Identifier | Barcode type | Identifier |
|---|---|---|---|
| UPC-A | A | UPC-E | B |
| EAN-8 | C | EAN-13 | D |
| CODE 39 | E | CODE-128 | F |
| INTERLEAVE 25 | G | INDUSTRIAL 25 | H |
| MATRIX 25 | I | CODABAR/NW7 | J |
| CODE 93 | K | CODE 11 | L |
| China post barcode | M | MSI/PLESSEY | N |
| BC412 | O | CODE 2 OF 6 | P |
| TELEPEN | T | | |

UPC-A

UPC-E

EAN-13/JAN-13

EAN-8/JAN-8

CODE 39

CODE 128



**Begin/End character definition**

A/B/C/D Begin

A/B/C/D End

A Begin

A End

B Begin

B End

C Begin

C End

D Begin

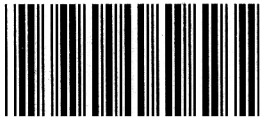
D End

**Barcode length setup**

*Non-fixed length

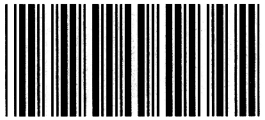
**Fixed length（Be able to setup two groups）**

1、Group 1 Begin



2、 Algorism number （Appendix A）

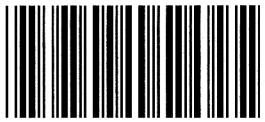
3、Group 1 End



1、Group 2 Begin

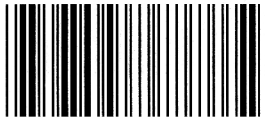
2、 Algorism number（Appendix A）

3、Group 2 End



**Minimum length**

1、Begin



2、 Algorism number（Appendix A）

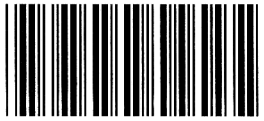
3、End

**Explanation:**

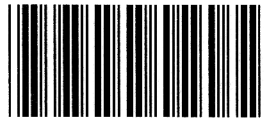
1、'Non-fixed length' denotes that output characters are the same as



French

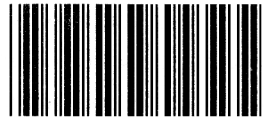


German

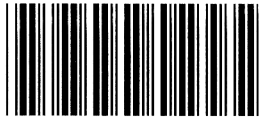


Swedish

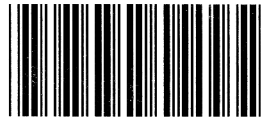
Switzerland tongue



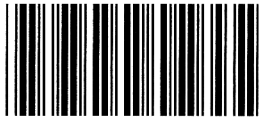
Mungarian



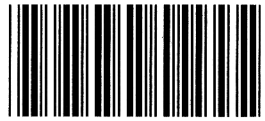
Japanese



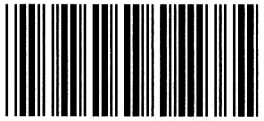
Belgium tongue



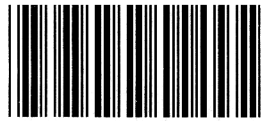
Portuguese



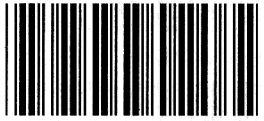
Denish



Dutch

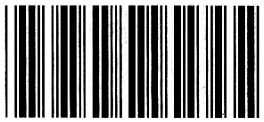


Turkish

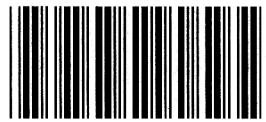


**Barcode distinguishing symbol definition**

ON



*OFF

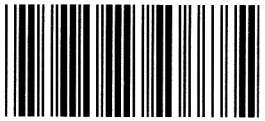


**Minimum length**

1、Begin

2、 Algorism number（Appendix A）

3、End



**Explanation：**

1、'Non-fixed length' denotes that output characters are the same as barcode characters and no limiting

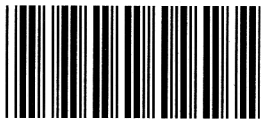
2、'Fixed length' denotes that the setting barcode length is fixed, barcode characters are the same as the set value, otherwise output will be disable

3、'Minimum length' sets characters' minimum length. Output will be disable if the set value is less than it.

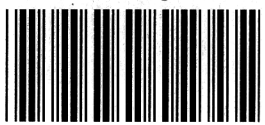
**Integrative parameter definition**

**Language choice**

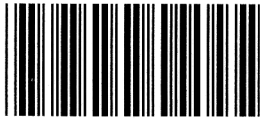
*American English



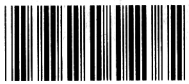
British English



Italian



Spanish





barcode characters and no limiting

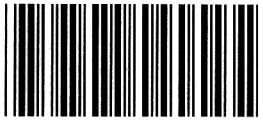
2、'Fixed length' denotes that the setting barcode length is fixed, barcode characters are the same as the set value, otherwise output will be disable

3、'Minimum length' sets characters' minimum length. Output will be disable if the set value is less than it

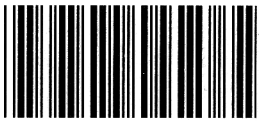
**CODE 93 Parameter definition**

**Transmit parity bit**

Calculate 2 parity bits、no transmit



No calculate parity bit

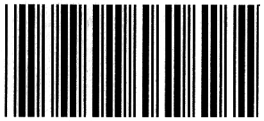


**Barcode length setup**

*Non-fixed length

**Fixed length（Be able to setup two groups）**

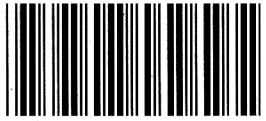
1、Group 1 Begin



2、Algorism number（Appendix A）

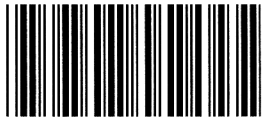
3、Group 1 End

1、Group 2 Begin



2、 Algorism number（Appendix A）

3、Group 2 End

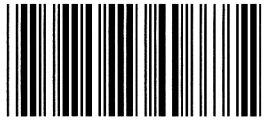


**Minimum length**

1、Begin

2、 Algorism number（Appendix A）

3、End



**Explanation:**

1、'Non-fixed length' denotes that output characters are the same as barcode characters and no limiting

2、'Fixed length' denotes that the setting barcode length is fixed, barcode characters are the same as the set value, otherwise output will be disable

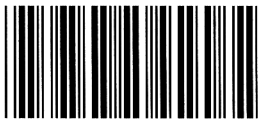
3、'Minimum length' sets characters' minimum length. Output will be disable if the set value is less than it.

**CODE 11 Parameter definition**

**Transmit parity bit setup**

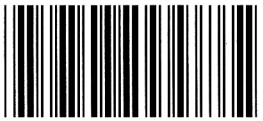


Calculate parity bit、no transmit



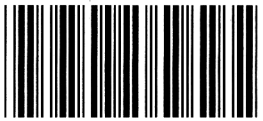
**Barcode length setup**

*Non-fixed length



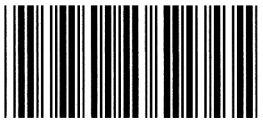
**Fixed length（Be able to setup two groups）**

1、Group 1 Begin

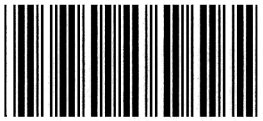


2、Algorism number（Appendix A）

3、Group 1 End

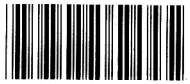


1、Group 2 Begin



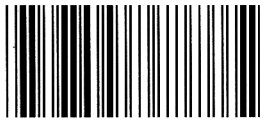
2、 Algorism number（Appendix A）

3、Group 2 End



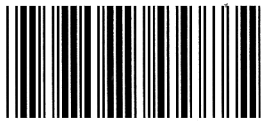
**Minimum length**

1、Begin



2、 Algorism number（Appendix A）

3、End



**Explanation:**

1、'Non-fixed length' denotes that output characters are the same as barcode characters and no limiting

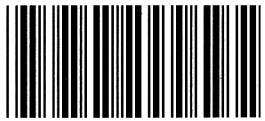
2、'Fixed length' denotes that the setting barcode length is fixed, barcode characters are the same as the set value, otherwise output will be disable

3、'Minimum length' sets characters' minimum length. Output will be disable if the set value is less than it.

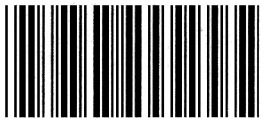
**TELEPEN Parameter definition**

**Choose barcode type**

TELEPEN character corpora

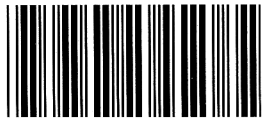


TELEPEN figure corpora

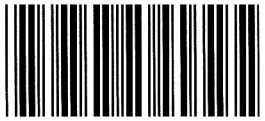


**Transmit parity bit setup**

No calculate parity bit

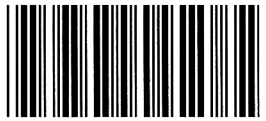


Calculate and transmit parity bit

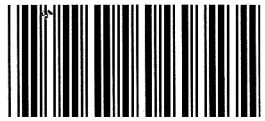




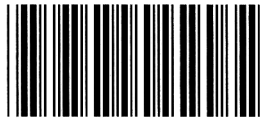
*No calculate parity bit



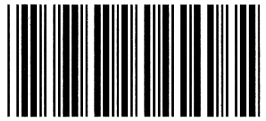
Calculate and transmit one parity bit



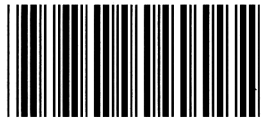
Calculate one parity bit、no transmit



Calculate and transmit two parity bits

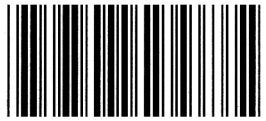


Calculate two parity bit、no transmit



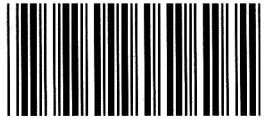
**Barcode length setup**

*Non-fixed length



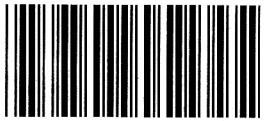
Fixed length（**Be able to setup two groups**）

1、Group 1 Begin

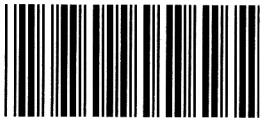


2、 Algorism number（Appendix A）

3、Group 1 End

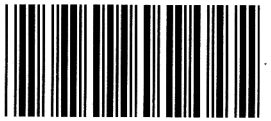


1、Group 2 Begin



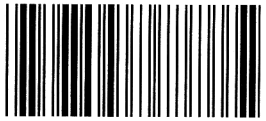
2、 Algorism number（Appendix A）

3、Group 2 End



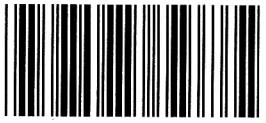
**Minimum length**

1、Begin



2、 Algorism number（Appendix A）

3、End



**Explanation:**

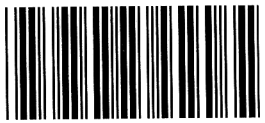
1、'Non-fixed length' denotes that output characters are the same as barcode characters and no limiting

2、'Fixed length' denotes that the setting barcode length is fixed, barcode characters are the same as the set value, otherwise output will be disable

3、'Minimum length' sets characters' minimum length. Output will be disable if the set value is less than it.

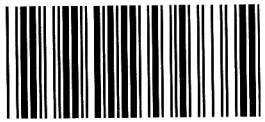


Calculate parity bit、no transmit



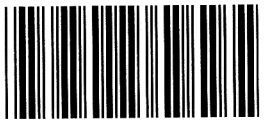
**Barcode length setup**

*Non-fixed length



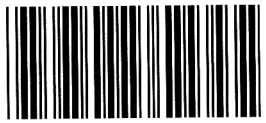
Fixed length（**Be able to setup two groups**）

1、Group 1 Begin

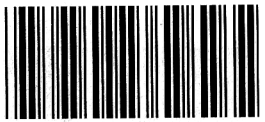


2、Algorism number（Appendix A）

3、Group 1 End

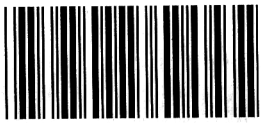


1、Group 2 Begin



2、Algorism number（Appendix A）

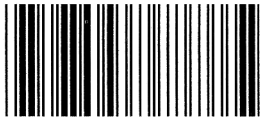
3、Group 2 End



3、Group 2 End

**Minimum length**

1、Begin



2、 Algorism number（Appendix A）

3、End

**Explanation:**

1、'Non-fixed length' denotes that output characters are the same as barcode characters and no limiting

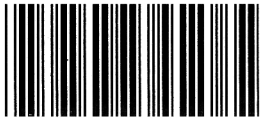
2、'Fixed length' denotes that the setting barcode length is fixed, barcode characters are the same as the set value, otherwise output will be disable

3、'Minimum length' sets characters' minimum length. Output will be disable if the set value is less than it.

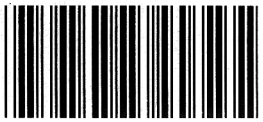
**CODE 2 OF 6 PARAMETERS**

**Transmit parity bit setup**

No calculate parity bit



*Calculate and transmit parity bit

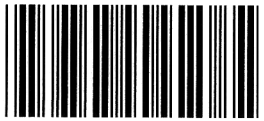




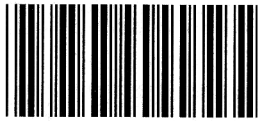
**MSI/PLESSEY Parameter definition**

**Transmit parity bit setup**

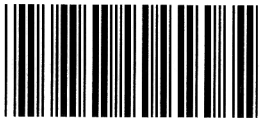
*No calculate parity bit



Calculate and transmit parity bit



Calculate parity bit、no transmit

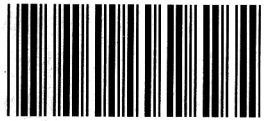


**Barcode length setup**

*Non-fixed length

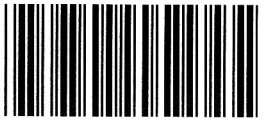
**Fixed length（Be able to setup two groups）**

1、Group 1 Begin



2、Algorism number（Appendix A）

3、Group 1 End



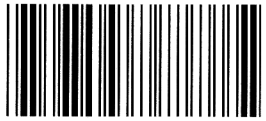
1、Group 2 Begin

2、 Algorism number（Appendix A）

3、Group 2 End

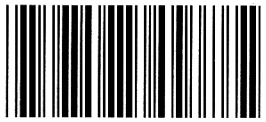
**Minimum length**

1、Begin



2、 Algorism number（Appendix A）

3、End



**Explanation：**

1、'Non-fixed length' denotes that output characters are the same as barcode characters and no limiting

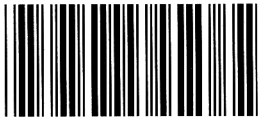
2、'Fixed length' denotes that the setting barcode length is fixed, barcode characters are the same as the set value, otherwise output will be disable

3、'Minimum length' sets characters' minimum length. Output will be disable if the set value is less than it.

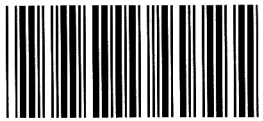


**BC 412 Parameter definition**

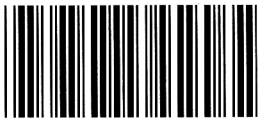
No calculate parity bit



*Calculate and transmit parity bit

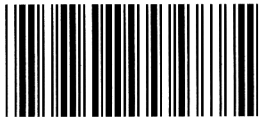


Calculate parity bit、no transmit



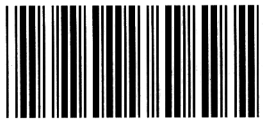
Barcode length setup

*Non-fixed length



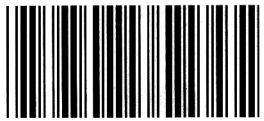
**Fixed length（Be able to setup two groups）**

1、Group 1 Begin

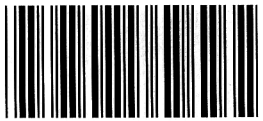


2、Algorism number（Appendix A）

3、Group 1 End



1、Group 2 Begin



2、 Algorism number（Appendix A）

Many thanks to pointingmouse for sending me a hard copy of the user's manual.

PDF made by Ludo - http://www.shibby.fr

**Print only if necessary.**
**If you have a TFT display, you can scan the bar codes directly on the screen.**

How to print this document:
- print odd pages (from 1 to 37),
- remove the first page from the paper stack,
- place the paper on your printer in order to print the other side of each page,
- print even pages in reverse order (from 36 to 2).

**Please don't print this page unless you really need to.**

**N'imprimez que si nécessaire.**
**Si vous avez un écran TFT, scannez les codes barres directement sur l'écran.**

Comment imprimer ce document:
- imprimez les pages impaires (de 1 à 37),
- enlevez la première page de la pile de feuilles,
- placez les feuilles dans votre imprimante de façon à imprimer la seconde face de chaque feuille,
- imprimez les pages paires dans l'ordre inverse (de 36 à 2).

**S'il vous plait, n'imprimez cette page que si vous en avez réellement besoin.**