Catalogue

Chapter 1 Features of Product

1.Easy to Use：

It's designed with microcomputer so that it could automatically count parts. It's easy to operate, easy to learn an easy to use.

2.Able To Be Applied To Various Articles Extensively：

It's equipped with SMT so that it could count strap parts. Thus it could be applied to various articles extensively.

3.Sound Consideration：

The reserved power will still proceed to count parts under the circumstances that there is power failure occurred or without AC power source.

4.Powerful Function：

The number of parts needing counting could be pre-set through the panel so that it's easy to precede works like counting material and conveying material.

5. Powerful Expansibility

To make management conveniently, it could be joined with bar code reader to print bar code labels.

Chapter 2 Matters Needing Attention

1. After opening the package, you are supposed to check out whether the accessories are complete without anything missing.

2. Before using parts counter, you are supposed to read operation manual carefully and keep it properly.

3. Check out whether the voltage specification is consistent with the current voltage specification used in the city.

4. To protect personal safety and parts security, make sure that ground wire is securely connected.

Chapter 3 Installation and Instructions

1. Open outer packing box of this machine carefully, and check out the following accessories：

   (1) A copy of operation manual.

   (2) A copy of product warranty.

   (3) A main machine

   (4) A power code (American Specification).

   (5) Two pieces of parts trays.

   (6) One hexagon wrench (M2)

2. Check out whether the voltage specification of the machine (AC110Vor AC220V) is the same as the voltage specification used in the city. (The standard voltage specification in Taiwan is　AC110V)。

3. If the voltage specification in the city is AC110V or AC220V, shift the power switch in the back of the counter to 115V or 230V.

4. Place the machine on a smooth table or ground.

5. After confirmation of the accessories and voltage specification, connect each side of the power cord respectively to outlet of the machine and outlet of the power in the city (Shown as figure 1).

Power Code

Power inlet in the back of the machine
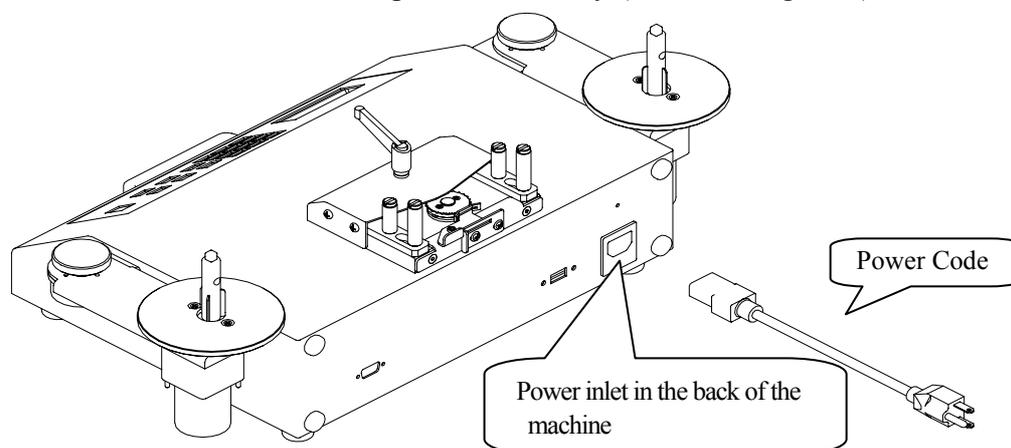
Figure 1

6. Connect the ground wire securely.

7. Loosen the fixed swiveling button on the support bracket of the two material trays in counter clockwise direction. Stretch out support bracket of the two material trays to a straight line and then fasten the fixed swiveling button in clockwise direction.

Figure 2

8. Switch on power switch on the panel, and then the screen is supposed to display the last value of PITCH.

9. Installation completed.

Chapter 4 Operation Instructions

4-1 Penal Explanation

1. POWER

    The power switches where to control the power of this machine.

2. PRINT (reserved)

Operation method：By pressing this button, you could print out the number of parts been counted on the bar code labels through bar code printer.
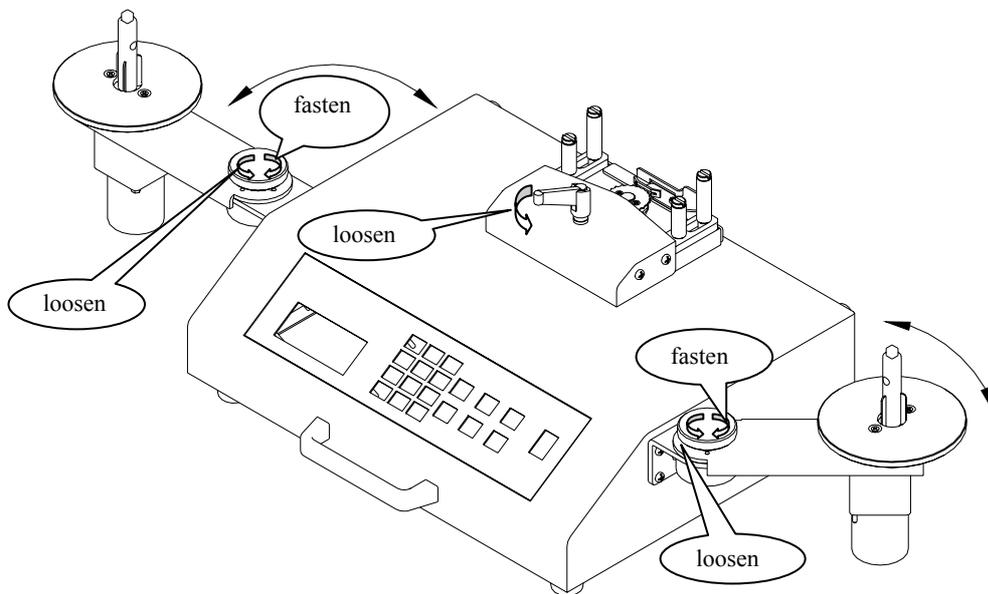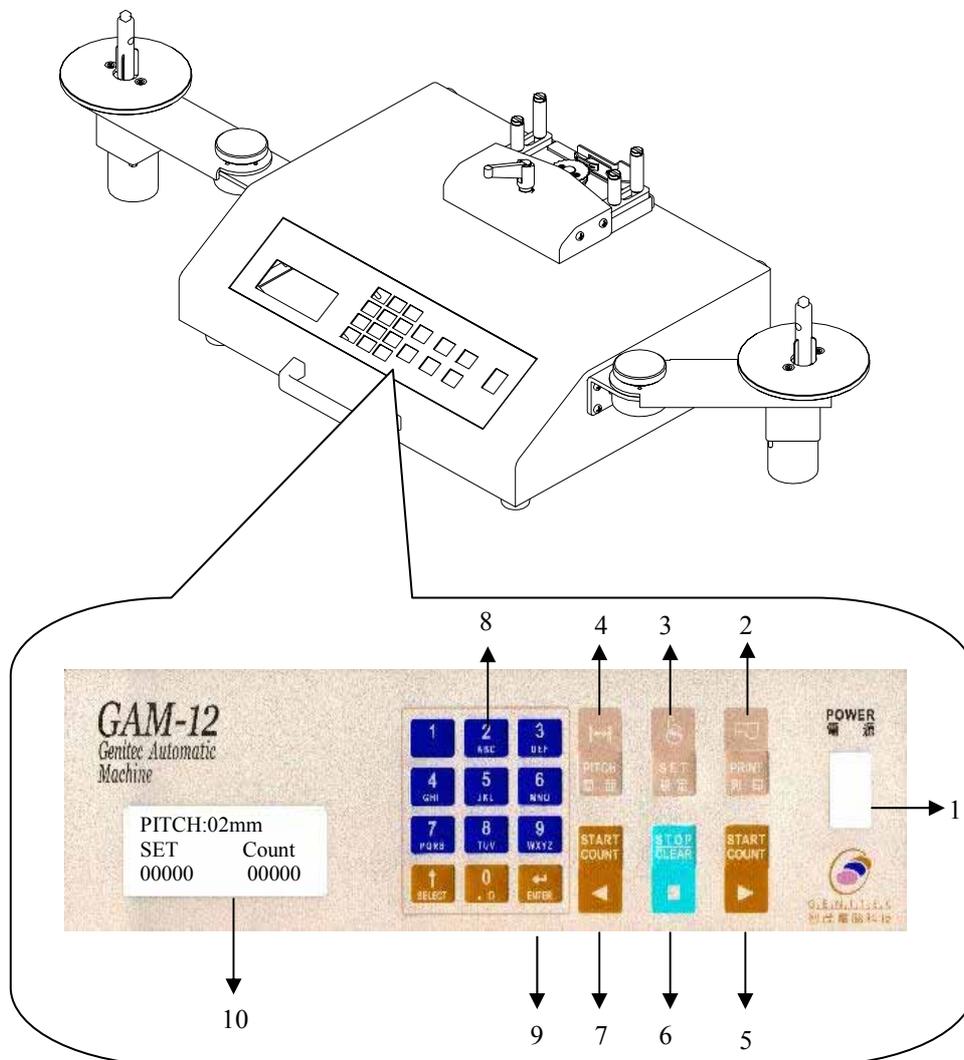
3. SET (Setting the quantity needing counting)

Operation method：

(1) If the screen displays 0 0 0 0 0, press this button to cancel the function for counting parts, and the screen will then display ━ ━ ━ ━ 。

(2) If the screen displays ━ ━ ━ ━, press this button to start the function of counting parts, and the screen will then display 0 0 0 0 0 。

(3) If the screen neither displays ━ ━ ━ ━, or 0 0 0 0 0, press this button to restore, and the screen will then display 0 0 0 0 0 。

4. PITCH (Setting pitch)

Operation method：After pressing this button, the value of PITCH on the screen will keep blinking, and you can start to set the size of pitch you wish. If there is no pressing for 5 seconds, it will memorize automatically, and after making a B sound, it will restore to awaiting condition.

P.S：After pressing PITCH button, you could also directly press digital keys to key in the size of PITCH you wish.

5. [START COUNT ▶] TO start in clockwise direction

Operation method：By pressing this button, it will start to count parts.

6. [STOP CLEAR ■] Stop

Operation method：

(1) By pressing this button, it will stop counting or rewinding under the conditions of counting or rewinding.

(2) By pressing this button for 2 seconds under awaiting condition, it will clear the value of the counter.

7. [START COUNT ◀] Start to rewind

Operation method：By pressing this button, the parts will be sent back to material trays.

8. Digital keys[0～9]

Operation method：

(1) When the value of PITCH is keep blinking, you could directly set the value of PITCH by pressing digital keys.

(2) Under the conditions that the value of the counter does not display ━━━━━ or the value of PITCH is not blinking, you could set the number of parts needing counting by pressing digital keys.

9. ENTER

Operation method：When setting pitch, you could directly press this button to make sure, and don't need to wait for 5 seconds for system to set.

10. LCD screen

Setting the value of PITCH ◄────

Setting the counting number ◄────

PITCH	02mm	
SET		Count
00000		00000

────► Number of parts

Counting number
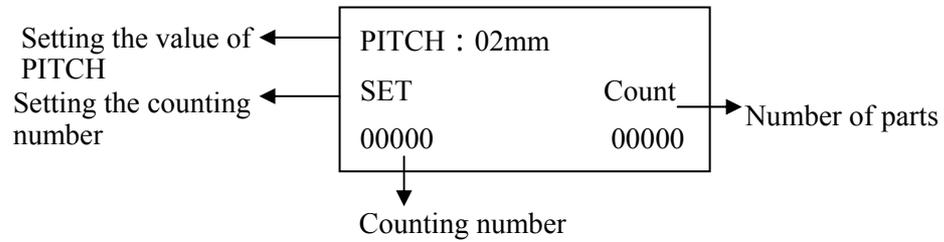
4-2 Operation Procedures

1. Connecting the power cord to main machine and AC110V (60HZ) power source.

2. Shift the POWER switch on the panel of the machine to ON, and the LCD panel will shimmer.

3. By pressing PITCH button, you could choose to set the value of pitch of parts needing counting. The value of PITCH will keep blinking, you could directly key in size of PITCH you wish by pressing digital keys0~9. The PTICH key is the next argument to select.

4. After selecting the PITCH you wish, press ENTER to confirm.

5. Install parts needing counting on the left side of the REEL HOLDER.

6. Pull out the TAPE, make sure the conveying hole is faced down and put in the counting gear in the central part. The fort part of the tape has to be secured in the empty REEL.

7. Shift the TAPE towards the right side of the REEL manually, and aim the space in the front of the first parts at the central line of the red arrow tip of the counter.

8. Press STOP for two seconds to restore the number to zero.

9. Key in the number you wish to count.

10. Press ▶ START COUNT to count.

11. When the counter reaches the number you set, the motor will then stop.

12. Owing to inertia theory, the number of the counter will be over the number you set, you could rewind to the number you wish manually. At the moment, the number on the LCD panel is the number of parts.

13. After counting, press ◄ START COUNT and TAPE will stop revolving after it rewinds back to the original left side of the REEL.
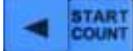
Chapter 5 Explanations of Parts of the Machine
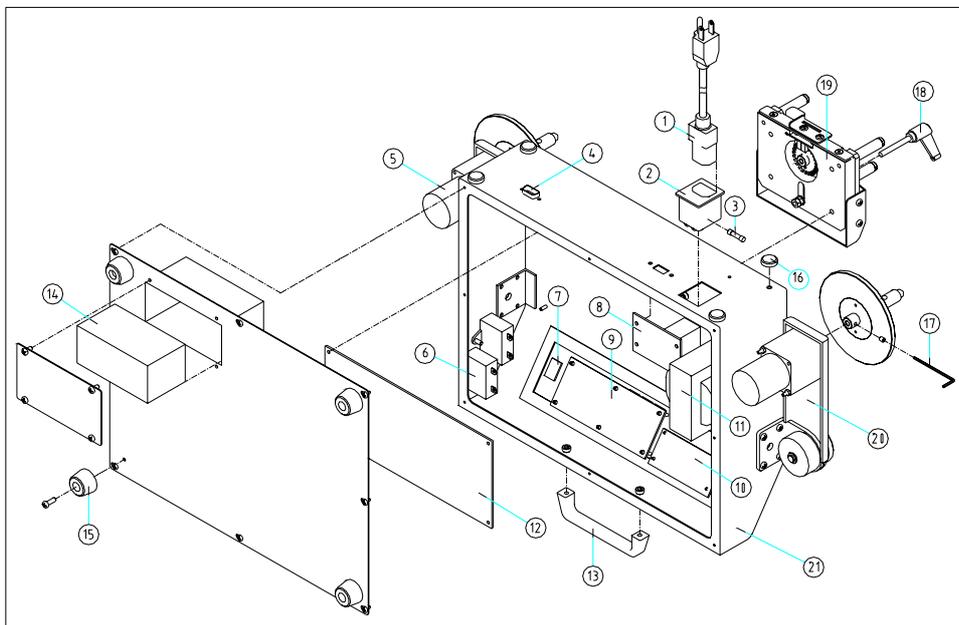
Parts No.	Name of Parts	Unit	Utility Quantity	Remarks
1	Power Code 3A	Piece	1	
2	Outlet	Piece	1	
3	Fuse wire	Piece	1	
4	Print outlet	Piece	1	
5	AC motor	Piece	2	
6	Starting capacitance of motor	Piece	2	
7	Power switch	Piece	1	
8	Overload voltage protector	Piece	1	
9	Pressing PC board	Piece	1	
10	LCD	Piece	1	
11	Power transformer	Piece	1	
12	Computer control IC board	Piece	1	
13	Portable handle	Piece	1	
14	Battery 12V-1.2AH	Piece	1	
15	Bottom footpad	Piece	4	
16	Stud footpad	Piece	4	
17	Hexagon wrench M2	Piece	1	
18	Swivel wrench	Piece	1	
19	Gear combination of counter	Combination	1	
20	Roll up combination of counter	Combination	1	
21	Sheet metal combination of counter	Combination	1	

Chapter 6 Simple Troubleshooting

Trouble	Solution
There is no sign on LCD after switch on the power switch on panel.	1. Power cord falling off. 2. Fuse wire split. 3. Running out of battery.
There is sign on LCD on the panel but it's not working when pressing (Start count)	1. The counting number is over or equal to the number been set. 2. Please refer to operation manual for various operation instructions.

Chapter 7 Specification of Product

POWER	AC110V〔60HZ〕/ AC220V〔60HZ〕
Normal Rated Power	30w
Counting Range	-99999～99999
The Size of Shape	(L)390*(W)774*(H)184mm
Weight	10 Kg
Applied to	SMT strap parts. REEL of strap, diameter：could be applied to various sizes. WIDTH of strap：8,12,16,24,32,44,56mm PITCH of strap：2,4,8,12,16,20,24,32,44,48,52, 56mm

➢**Date related to battery**

Specification	12V、1.2AH
Function	It could still supply power under the condition that there is no AC power source.
Working condition	Turn on POWER switch and then LCD will display. To save power, the motor does not work and there is no sign in the screen at this moment. You could turn the material tray manually to count parts.
Charging electricity	The machine will check out whether the battery is enough to use when AC is with power. In the event that the battery is not enough, the machine will charge the battery until the voltage reaches 13.8V, a saturation condition, and then stop. Thus, the battery won't have the problem of overcharging.
Discharging electricity	When counting manually and the voltage are under 11V, the machine will automatically turn off.
Utility span of battery	If the utility of the battery is within normal range, the battery will reach the estimated utility span, one year.
Utility hours of battery	3-4 h
Battery maintenance	To expand life span of battery effectively, discharge the battery once every 3 months. Turn on the machine, discharge the battery and then charge the battery again.

Chapter 8 BAR CODE PRINTER Operational Explanation (Option)

8-1 Check Installation

1. Make sure the GAM-12 (Chip Counter) is connected well to BAR CODE PRINTER and the PRIMTER is printable.

2. Make sure the BAR CODE PRINTER is model of G-2108.

3. Make sure the BAR CODE PRINTR paper is installed correctly. (For the paper installation please refer to the BAR CODE PRINT (G-2108) operation manual from page18~25).

4. Make sure ribbon is installed well on BAR CODE PRINT. (For the ribbon installation, please refer to BAR CODE PRINTER (G-2108) operation manual from page11~17).

5. Make sure GAM-12 (Chip Counter) is connected with BAR CODE PRINT G-2108 (RS232 line; 9 pin to 9 pin cable).

8-2 Print Bar Code

8-2-1 Operation explanations:

1.Turn on the GAM-12 (Chip Counter) power switch, the panel board will display as below, please refer to Figure 3

Pitch setting ← PITCH   04mm

Counter quantity ← SET NO.   COUNT → Component quantity

setting   00000   00000
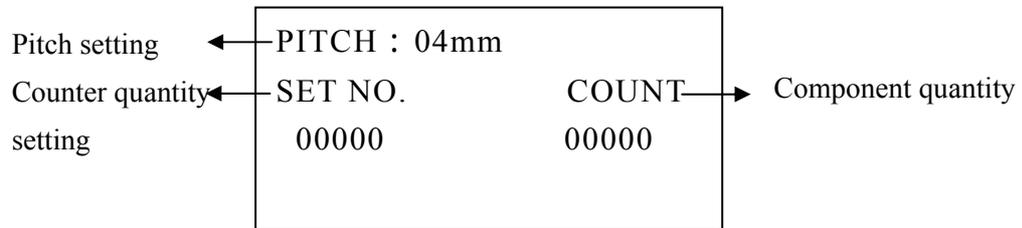
Figure 3

2. Turn on the BAR CODE PRINTER power switch (Refer to figure 4) When READY MEDIA RIBBON those three indicator lights are lighted up, the machine starts successfully. Also, the BAR CODE PRINTER is at standby condition.

(1) Indicator lights explanation

    ①READY indicator light   When it lights up, it's in normal condition, and it's standby to print.

    ②MEDLA indicator light   When it lights up, it in normal condition.

    ③RIBBON indicator light During thermal transmission condition.(Need to install a ribbon)

(2) BAR CODE PRINT outside appearance   Please refer to
figure 4
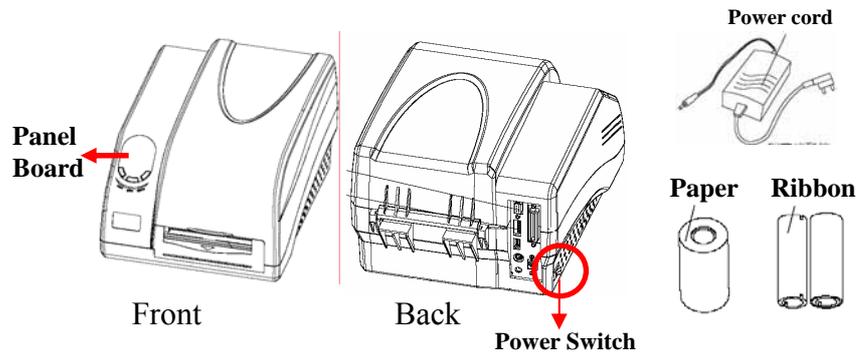
Figure 4

3. GAM-12 has executed counting function, waiting for
printing.

4. Press the button [PRINT] on the panel board; the screen will
display standard code info. Please refer to figure 5

GENITEC ↵	→ First Row: Text Code
2006-01-01 ↵	→ Second Row: Time Code
S/N12345 ↵	→ Third Row: Serial Number
SEL↑ CH ENT↵ PR	→ Forth Row: Message Column
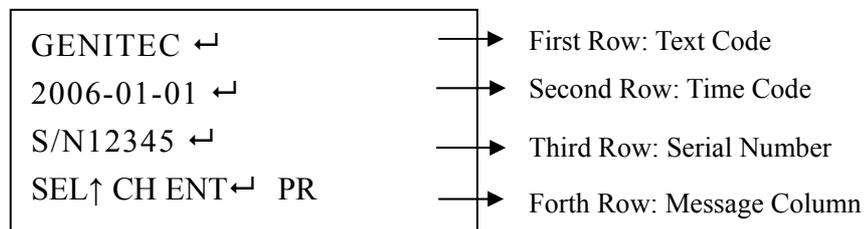
Figure 5

(1) Panel board explanation
　　①First Row-Text Code   Generally it shows company
　　　　　　　　　　　　　　name.
　　②Second Row-Time Code   Please put yy-mm-dd or
　　　　　　　　　　　　　　dd-mm-yy.

③Third Row-Product Serial Number

　　Generally it shows company products' serial number (The serial number can be English language plus number).

④Forth Row-Message Column

　　This Column can be amended, confirmed or print.

(2) Message Column's↑ CH ENT↵ PR

　　①SEL↑ CH　Press the button [↑ SELECT] to modify the first row-Text Code　the second row-Time Code, or the third row-Serial Number

　　②ENT↵ PR　Press the button [↵ ENTER] to execute print of Bar Code.

　　　Remark　A . Each row is limited in 20 characters, we recommend don't exceed 8 characters in the column of serial number.

　　　　　　B. During editing if need to back original setting, please press [8 TUV] and [↑ SELECT] those two buttons at the same time.

5. Make sure you are using correct paper size. Standard dimension setting inside is 85mm×45mm<L×H> (Please refer to 8-5-2 for choosing label dimension reference). If don't need to revise it, please skip it.

6. If screen display correct printing data, to execute printing bar code by pressing the button [↵ ENTER] .

8-2-2 Example No.1

Label dimension is 85mm×45mm   For the printing sample ,
please refer to figure 6
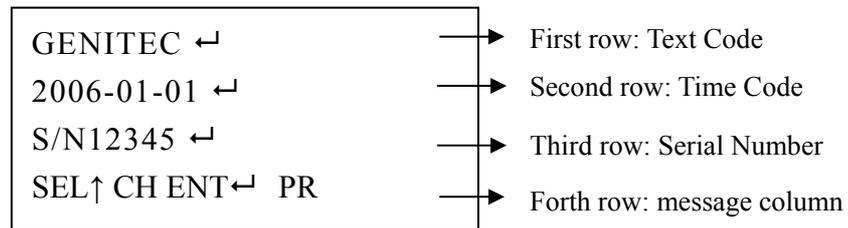
```
GENITEC ↵              ──▶ First row: Text Code
2006-01-01 ↵           ──▶ Second row: Time Code
S/N12345 ↵             ──▶ Third row: Serial Number
SEL↑ CH ENT↵  PR       ──▶ Forth row: message column
```
Figure 6

Step1. Press the button 🖶 , then it will display the below
message on the screen (figure 7).
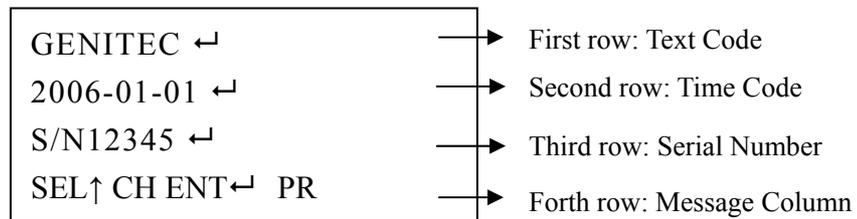
```
GENITEC ↵              ──▶ First row: Text Code
2006-01-01 ↵           ──▶ Second row: Time Code
S/N12345 ↵             ──▶ Third row: Serial Number
SEL↑ CH ENT↵  PR       ──▶ Forth row: Message Column
```
Figure 7

Step2. After entering the page, the message column will
display "SEL↑ CH ENT↵PR"; it means you can edit it
by press the button ⬆ , and directly to print bar
code by pressing the button ↵ .

Step3. Make sure your paper dimension is your demand or not,
our standard setting is 85mmx45mm<L x H> to
modifying your paper dimension, please refer to 8-5-2. If
you don't need to modify it, please skip it.

Step4. If you don't need to edit our original setting, press the

button [ENTER] to print (please refer to the figure 8)

Company name ◄————— GENTIEC
Counting quantity ◄————— 00135

Bar Code ◄—————

S/N12345001352006-01-01

Serial Number ◄————— S/N12345

Data ◄————— 2006-01-01
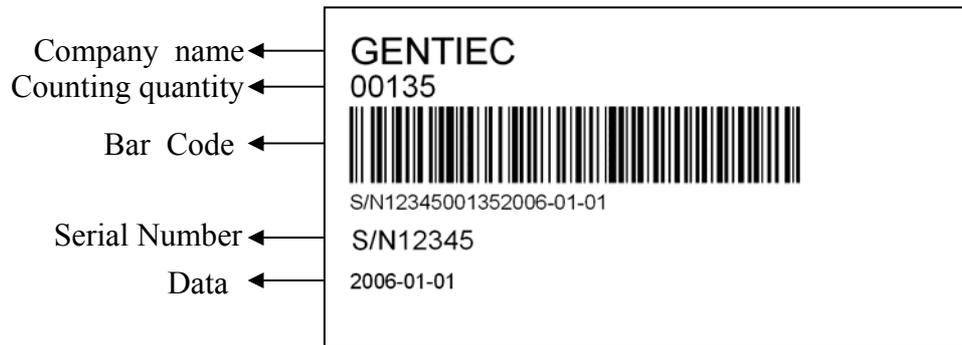
Figure 8

8-2-3 Example No.2

Label size is 70mm×30mm, please refer to figure 9 for your

sample reference

GENITEC ↵	→ First row: Text Code
2006-01-01 ↵	→ Second row: Time Code
S/N12345 ↵	→ Third row: Serial Number
SEL↑ CH ENT↵ PR	→ Forth row: Message column
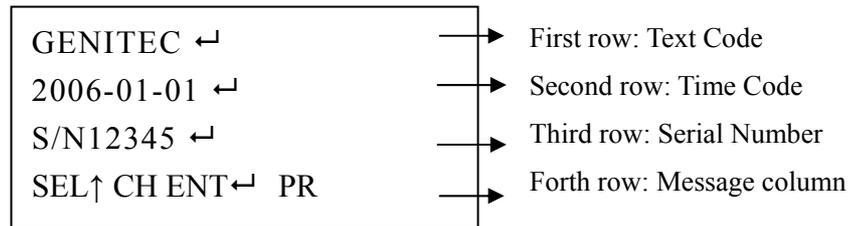
Figure 9

Step1. Please press the button [PRINT] ; it will display the figure

10 as below.

GENITEC ↵	→ Fist row: Text Code
2006-01-01 ↵	→ Second row: Time Code
S/N12345 ↵	→ Third row: Serial Number
SEL↑ CH ENT↵ PR	→ Forth row: Message column
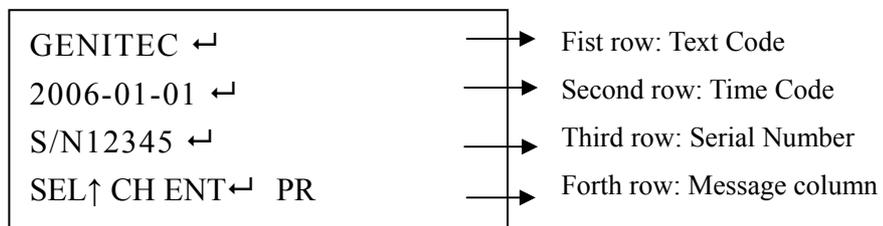
Figure 10

Step2. After entry figure 10, message column will display

"SEL↑ CH ENT↵PR"; press the button [↑ SELECT] to edit

main page, press [↵ ENTER] to print bar code (please refer

to 8-3 for your editing reference)

Step3. Inside setting size is 85mm×45mm. If your paper size is

70×30mm，need to modify inside paper dimension

setting. Press the button [SELECT]. (Refer to figure11)

GENITEC ↵	First row: Text Code
2006-01-01 ↵	Second row: Time Code
S/N12345 ↵	Third row: Serial Number
CH 1 2 3 ROW OR ENT↵	Forth row: Message Column

Figure 11

Step4. Please press [SELECT] and [7 PQRS] those two button at the

same time to entry the modifying label size page (Refer to

figure 12)

SELECT LABEL SIZE ↵
1   85*45mm
2   70*30mm   S   1
CH 1 2 OR ENT↵

Figure 12

Step5. Press the button [2 ABC] to choose label size
(70mm×30mm). Please follow step 3 and step 4
processes to entry label size pages to confirm you have
correct choice of paper size. (Please refer to figure 13)

```
SELECT LABEL SIZE ↵
1   85*45mm
2   70*30mm                S   2
CH 1 2 OR ENT↵
```

Figure13

Remark：S：2 label size is 70mm×30mm. It means you
have chosen the size to print label.

Step6. Press the button [ENTER] to print directly, if you don't
need to change any original setting.(Refer to figure 14)
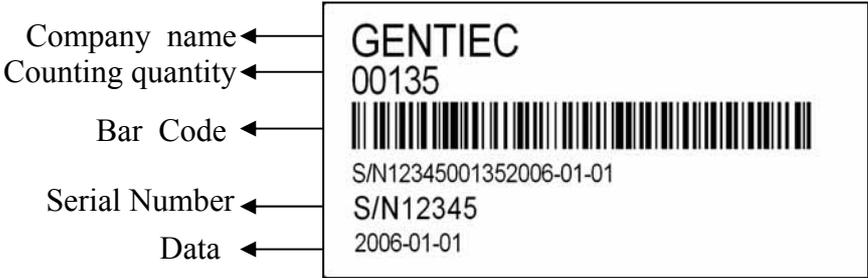
Company name ◄——— GENTIEC
Counting quantity ◄——— 00135
Bar Code ◄——— ‖‖‖‖‖‖‖‖‖‖‖‖‖
                      S/N12345001352006-01-01
Serial Number ◄——— S/N12345
Data ◄——— 2006-01-01

Figure 14

Remark：To edit text direction、size、height or width,
please refer to 8-7 example 1、2、3.

8-3 Editing of bar code

8-3-1 Operation explanation

1. Depends on customers' need to modify original setting.

2. To entry original setting by press the button [ ] . (Refer to figure 15)
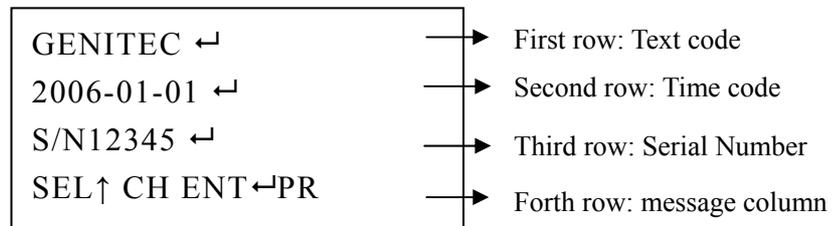
```
GENITEC ↵          ──────►  First row: Text code
2006-01-01 ↵       ──────►  Second row: Time code
S/N12345 ↵         ──────►  Third row: Serial Number
SEL↑ CH ENT↵PR     ──────►  Forth row: message column
```
Figure 15

3. Press the button [↑ SELECT] (Entry the editing page), the message columns will display "CH 1 2 3 ROW OR ENT↵ "(Please refer to 16)
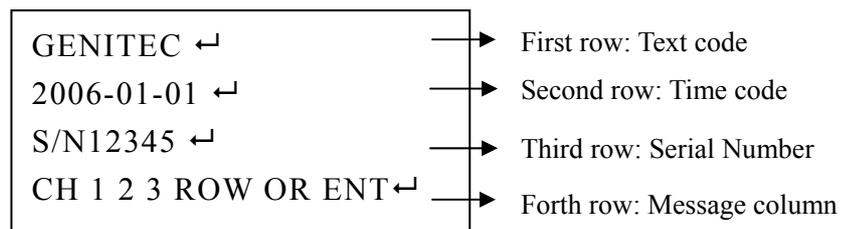
```
GENITEC ↵              ──────►  First row: Text code
2006-01-01 ↵           ──────►  Second row: Time code
S/N12345 ↵             ──────►  Third row: Serial Number
CH 1 2 3 ROW OR ENT↵   ──────►  Forth row: Message column
```
Figure 16

Message column "CH 1 2 3 ROW OR ENT↵" Press the button [1] to modify first row. Press the button [2 ABC] to modify second row. Press the button [3 DEF] to modify nothing (remain the original setting) [↵ ENTER] (Refer to figure 15)

4. Press the button [1] CAUSER will skip to the front of first row. The position can do data editing(Please refer to figure 17).Please press the button [2 ABC] CAUSER will skip to the front of second row, the position can do data editing(Please refer to 18). Press the button [3 DEF] CAUSER will skip to the front of the first row, you can do data edit on the position.(Please refer to figure 19).

GENITEC ↵	→	First row: Text code
2006-01-01 ↵	→	Second row: Time code
S/N12345 ↵	→	Third row: Serial Number
CH 1 2 3 ROW OR ENT↵	→	Forth row: Message column

Figure 17

GENITEC ↵	→	First row: Text code
2006-01-01 ↵	→	Second row: Time code
S/N12345 ↵	→	Third row: Serial Number
CH 1 2 3 ROW OR ENT↵	→	Forth row: Message column

Figure 18

GENITEC ↵	→	First row: Text code
2006-01-01 ↵	→	Second row: Time code
S/N12345 ↵	→	Third row: Serial Name
CH 1 2 3 ROW OR ENT↵	→	Forth row: Message column

Figure 19

5. On editing mode when the CAUSER blinks, please press
   ![START COUNT ◄] or ![START COUNT ►] button to choice editing position by moving right
   or left.

6. On edition mode when CAUSER blinks, please press the
   button ![START COUNT ◄] , CAUSER will move to left straightly, if it at
   HOME of the first row, CAUSER will skip to the END of
   the third row; following the rule, it will go back to END of
   last row, when press left button. Those three rows can be
   exchanged by following the rule.

7. On editing mode, when CAUSER blinks, please press the
   button ![START COUNT ►], CAUSER will move to right straightly, if it at
   END of the first row, CAUSER will skip to HOME of the
   second row; following the rule, it will go back the HOME
   of next row, when press right button. Those three rows can
   be exchanged by following the rule.

8. After editing, press the button ![ENTER] to end the edition.

9. After finished the editing the message column will display
   "SEL↑CH ENT↵ PR", please press the button ![ENTER] to
   print bar code.

8-3-2 Example of editing

Original setting page (Refer to figure 20).Finished editing page (Refer to figure 21)

Original setting page

```
┌─────────────────────┐
│ GENITEC ↵           │ ─────►  First row: Text Code
│ 2006-01-01 ↵        │ ─────►  Second row: Time Code
│ S/N12345 ↵          │ ─────►  Third row: Serial Number
│ SEL↑ CH ENT↵PR      │ ─────►  Forth row: Message column
└─────────────────────┘
```
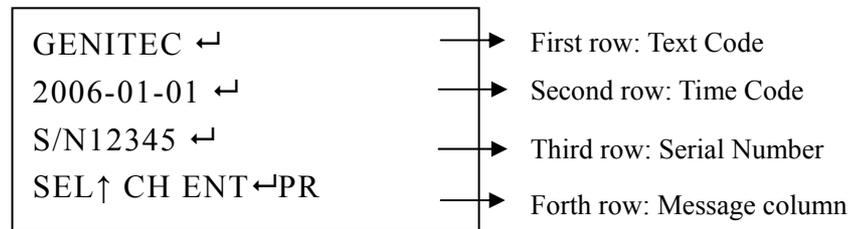
Figure20

Finished editing page   (Within the underline numbers are waiting for modification)

```
┌─────────────────────┐
│ GENITEC ↵           │ ─────►  First row: Text code
│ 2006-03-01 ↵        │ ─────►  Second row: Time code
│ S/N55124 ↵          │ ─────►  Third row: Serial Number
│ SEL↑ CH ENT↵PR      │ ─────►  Forth row: Message column
└─────────────────────┘
```
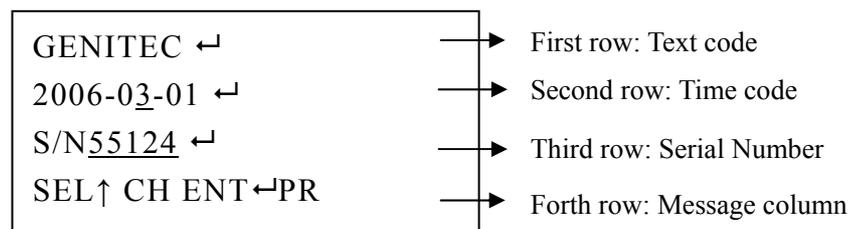
Figure 21

1. Press the button [↑ SELECT] (Entry the page to modify) the message column will display "<u>CH 1 2 3 ROW OR ENT↵</u>" (Refer to figure 22)

```
GENITEC ↵                    ────►   First row: Text code
2006-01-01 ↵                 ────►   Second row: Time code
S/N12345 ↵                   ────►   Third row: Serial Number
CH 1 2 3 ROW OR ENT↵         ────►   Forth row: Message column
```
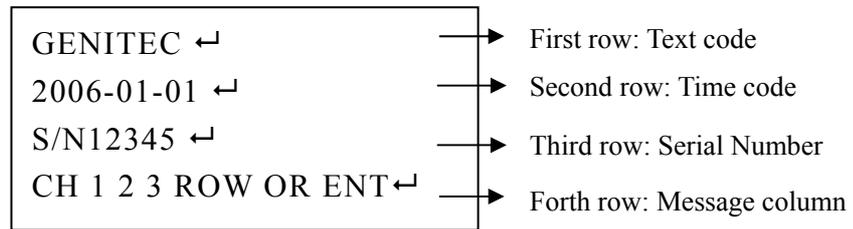
Figure 22

2. When you press the [2 ABC] button, CAUSER blinks will skip to the HOME of the second row, you can edit data at the position. (Refer to figure 23)

```
GENITEC ↵                    ────►   First row: Text code
2006-01-01 ↵                 ────►   Second row: Time code
S/N12345 ↵                   ────►   Third row: Serial Number
CH 1 2 3 ROW OR ENT↵         ────►   Forth row: Message column
```
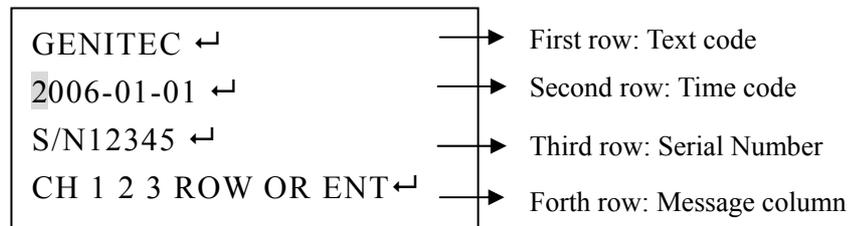
Figure23

3. Please press the button [► START COUNT] for moving to your modification position when CAUSER blinks on the second row. Please refer to figure 24

```
GENITEC ↵                    ────►   First row: Text code
2006-01-01 ↵                 ────►   Second row: Time code
S/N12345 ↵                   ────►   Third row: Serial Number
CH 1 2 3 ROW OR ENT↵         ────►   Forth row: Message column
```
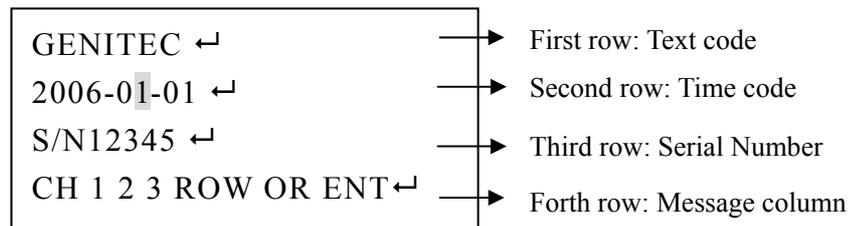
Figure 24

4. Press the number buttons to modify the text. (Refer to 25)

Press the button [3 DEF] , CAUSER blinks will change to

3   CAUSER will move one step to the right automatically.

(Refer to figure 26)

Figure 25

GENITEC ↵	→	First row: Text code
2006-03-01 ↵	→	Second row: Time code
S/N12345 ↵	→	Third row: Serial Number
CH 1 2 3 ROW OR ENT↵	→	Forth row: Message column
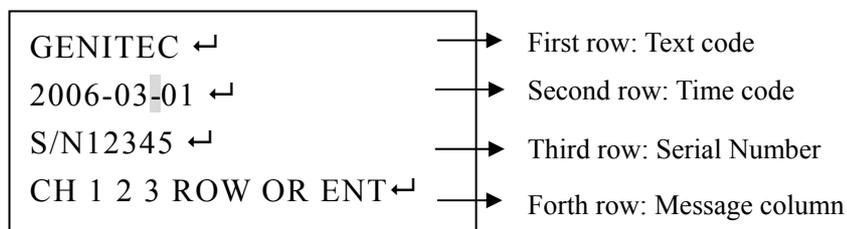
Figure 26

5. After modified the second row, press the button [↵ ENTER] to
   end of the editing. (Refer to figure 27)

GENITEC ↵	→	First row: Text cod
2006-03-01 ↵	→	Second row: Time code
S/N12345 ↵	→	Third row: Serial Number
SEL↑ CH ENT↵PR	→	Forth row: Message column
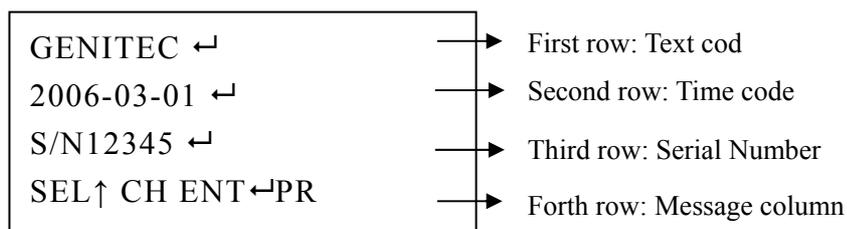
Figure 27

6. Press the button [↑ SELECT] (Entry the editing page to do modification) The message column will display's "<u>CH 1 2 3 ROW OR ENT↵</u>"(Refer to figure 28)

GENITEC ↵	→ First row: Text code
2006-03-01 ↵	→ Second row: Time code
S/N12345 ↵	→ Third row: Serial Number
CH 1 2 3 ROW OR ENT↵	→ Forth row: Message column
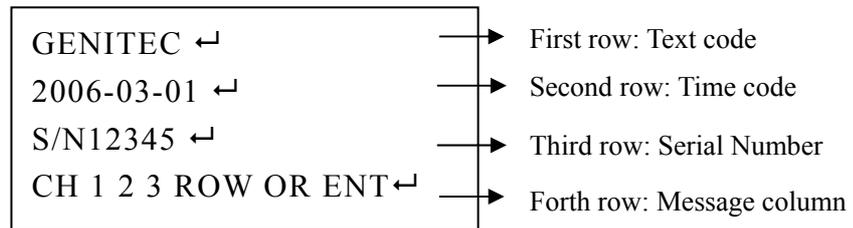
Figure 28

7. When press the button [3 DEF], CAUSER blinks will change to 3 CAUSER will move to the HOME of the third row; you can do data modification on the position. (Refer to figure 29)

GENITEC ↵	→ First row: Text code
2006-03-01 ↵	→ Second row: Time code
S/N12345 ↵	→ Third row: Serial Number
CH 1 2 3 ROW OR ENT↵	→ Forth row: Message column

Figure 29

8. When CAUSER blinks on the third row, please press the button [START COUNT ►] and then it will skip to the position, which will do the modification. (Refer to figure 30)

GENITEC ↵	→ First row: Text code
2006-03-01 ↵	→ Second row: Time code
S/N12345 ↵	→ Third row: Serial Number
CH 1 2 3 ROW OR ENT↵	→ Forth row: Message column
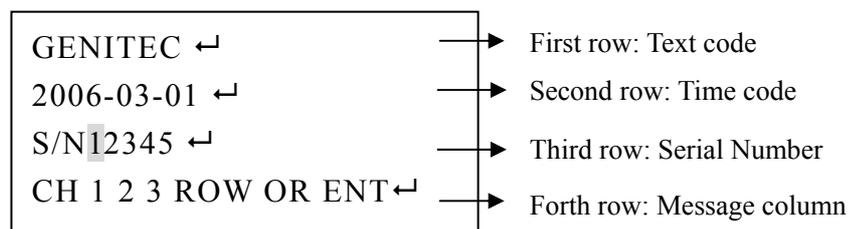
Figure 30

9. Press the number buttons to modify the text (Refer to figure 25) Press the button **5**, the position of CAUSER blinking, will change to 5, CAUSER will move one space to the right automatically. (Refer to figure 31)

```
GENITEC ↵                    → First row: Text code
2006-03-01 ↵                 → Second row: Time code
S/N52345 ↵                   → Third row: Serial Number
CH 1 2 3 ROW OR ENT↵         → Forth row: Message column
```
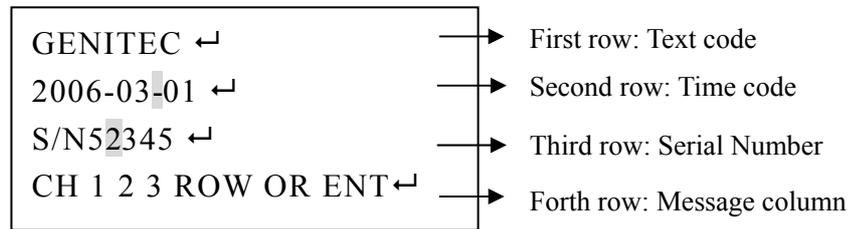
Figure 31

10. Then press **5** **1** **2** **4** those buttons until you finished your modification. (Refer to figure 32)

```
GENITEC ↵                    → First row: Text code
2006-03-01 ↵                 → Second row: Time code
S/N55124 ↵                   → Third row: Serial number
CH 1 2 3 ROW OR ENT↵         → Forth row: Message column
```
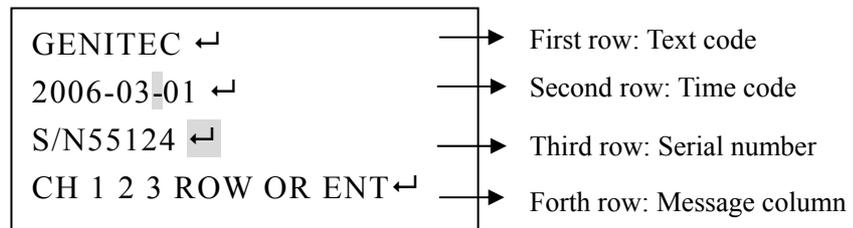
Figure 32

11. After modified the third row, press the button **ENTER** to end the modification. (Refer to figure 33)

```
GENITEC ↵                    → First row: Text code
2006-03-01 ↵                 → Second row: Time code
S/N55124 ↵                   → Third row: Serial number
SEL↑ CH ENT↵PR               → Forth row: Message column
```
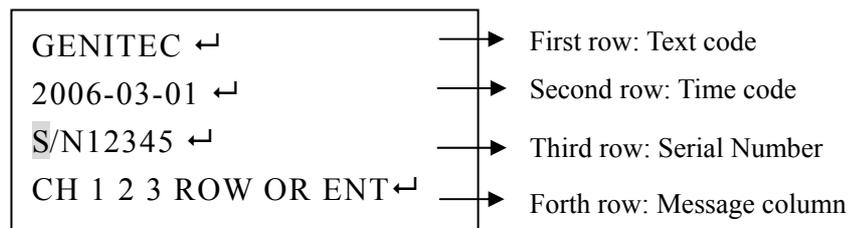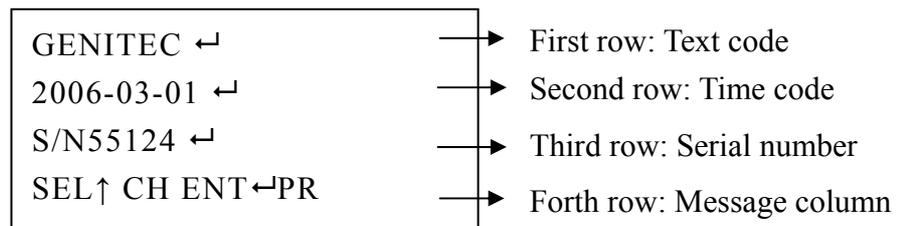
Figure 33

12. Press the button **ENTER** again; then you can print the amendatory date to BAR CODE

8-4 Buttons function explanation

1. Function keys operation explanation

Name of Buttons	Explanation
[ENTER]	1.End of Row editing 2.Confirm to print bar code
[STOP/CLEAR ■]	1.Back to original setting 2.Skip to counting page
[↑ SELECT] [6 MNO]	Editing buttons of inner code (for the editing explanation, please refer to 8-7)
[↑ SELECT] [7 PQRS]	Function buttons of (For operation explanation, please refer to 8-5-2) 1.80×45mm 2.70×30mm
[↑ SELECT] [8 TUV]	Back to original setting of inner code

2. Number buttons operational explanation

Number button	Content explanation	Operational explanation
![1]	1 Space	1. When you press the button, it shows "1" on the screen. 2. Space
![2 ABC]	2 A B C	1. When you press the button, it shows "2" on the screen. 2.Shows A B C letters follows by your next click
![3 DEF]	3 D E F	1. When you press the button, it shows "3" on the screen. 2. Show D E F letters follows by your next click
![4 GHI]	4 G H I	1. When you press the button, it shows "4" on the screen. 2. Show G H I letters follows by your next click
![5 JKL]	5 J K L	1. When you press the button, it shows "5" on the screen. 2. Shows J K L letters follows by your next click
![6 MNO]	6 M N O	1. When you press the button, it shows "6" on the screen. 2. Shows M N O letters follows by your next click

7	7 P Q R S q	1. When you press the button, it shows "7" on the screen. 2. Shows P Q R S q letters follows by your next click
8	8 T U V	1. When you press the button, it shows "8" on the screen. 2. Shows T U V letters follows by your next click
9	9 W X Y Z	1. When you press the button, it shows "9" on the screen. 2. Shows W X Y Z letters follows by your next click
0	0 ↵ ! ″ # $ % & ' ( ) * + , - / ? ■ ▌	1. When you press the button, it shows "0" on the screen. 2.Shows all symbol on next column by your next click 3.If you don't touch it after 2 seconds, it will identify as setting finished

3. Special symbol explanation

Item	Symbol	Function explanation	Remark
1	!	Quantity	Call counting quantity
2	#	First area	Call first row data of bar code page
3	$	Second area	
4	%	Third area	Call second row data of bar code page
5	&	Forth area	
6	,	Fifth area	Call third row data of bar code page
7	(	Sixth area	
8	A	Print text (Please refer to 8-7-3)	Communication code of GAM12 and Bar code printer
9	B	1.Print bar code 2.Print Text code (Please refer to 8-7-3)	Communication code of GAM12 and Bar code printer
10	D	Setting the printer head's heating temp. (Value 0~15　0 the mix temp.　15 the max heating temp.)	Communication code of GAM12 and Bar code printer

11	JB	No effect of turning run	Communication code of GAM12 and Bar code printer
12	Q	Setting label height and space length (Please refer to 8-7-3)	Communication code of GAM12 and Bar code printer
13	q	Setting label width (Please refer to 8-7-3)	Communication code of GAM12 and Bar code printer
14	R	Setting original position	Communication code of GAM12 and Bar code printer
15	S	Setting printing speed	Communication code of GAM12 and Bar code printer
16	N	1.Remove buffering area's images 2.Pinter moral text	Communication code of GAM12 and Bar code printer
17	W	Print label	Communication code of GAM12 and Bar code printer
18	↵	End code of one row program	Communication code of GAM12 and Bar code printer
19	■	Symbol of finishing editing	When the system read the symbol ■, it will stop read any data.

8-5 Consumables

Means all materials need by the printer during operates of the BAR CODE PRINT G-210.

8-5-1 Size of label paper   Inside has two size can be chosen. (For the operational explanation, please refer to 8-5-2). It can be changed according to your demand.

Size 1   85mm×45mm<L×H>

85mm

45mm
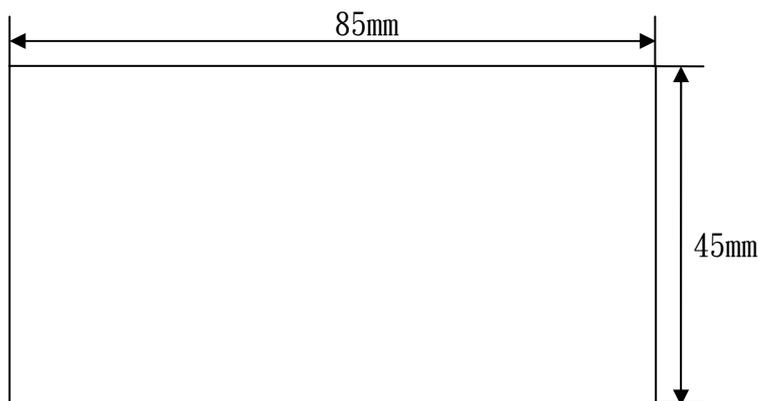
Size 2   70mm×30mm<L×H>

70mm

30mm
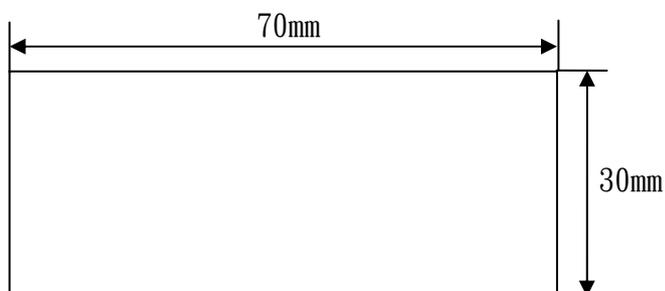
Remark   1. Suggest using original brand's paper in order to extend the machine's lifetime.

2. At least 20 rolls per each P/O.

8-5-2 GAM-12　　Label operation:

1. Bar code image as below (figure 34)

```
GENITEC ↵              ──────→  First row: Text cod
2006-01-01 ↵           ──────→  Second row: Time code
S/N12345 ↵             ──────→  Third row: Serial Number
SEL↑ CH ENT↵  PR       ──────→  Forth row: Message column
```
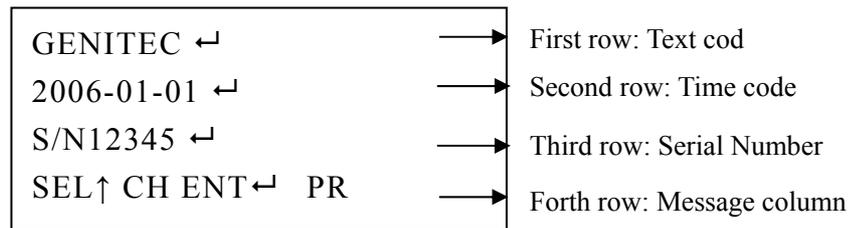
Figure 34

2. Press the button [↑ SELECT] , panel board will display as below
   (figure 35)

   Message column will display "<u>CH 1 2 3 ROW OR ENT↵</u>"

```
GENITEC ↵              ──────→  First row: Text code
2006-01-01 ↵           ──────→  Second row: Time code
S/N12345 ↵             ──────→  Third row: Serial Number
CH 1 2 3 ROW OR ENT↵   ──────→  Forth row: Message column
```

Figure 35

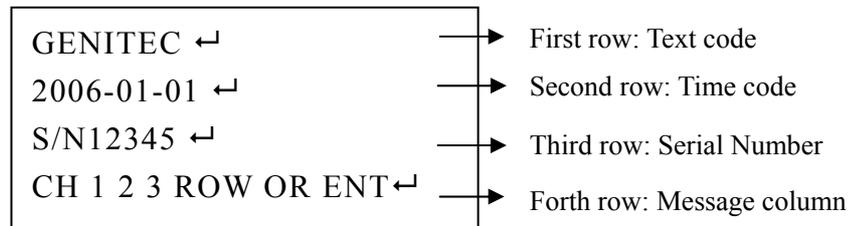3. Press [↑ SELECT] and [7 PQRS] at the same time (Label size
   chosen buttons), panel board will display as below figure 36,
   Message columns will display "<u>CH 1 2 OR ENT↵</u>"

```
SELECT LABEL SIZE ↵
1   85*45mm
2   70*30mm              S   1
CH 1 2 OR ENT↵
```
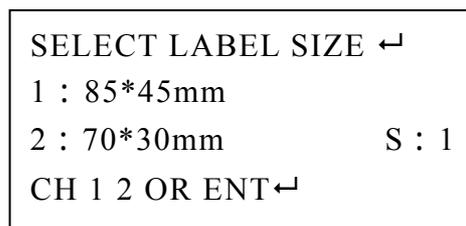
Figure 36

Message column "CH 1 2 OR ENT↵"explanation

(1) Press the button [1] ,your chosen size is 85*45mm;
and then it will back to bar code main page   (Refer to
figure 34)

(2) Press the button [2 ABC] , your chosen size is 70*30mm;
and then it will back to bar code main page(Refer to
figure 34)

(3) Press the button [↵ ENTER] to remain the same setting, and
then it will back to bar code main page (Refer to figure
34)

4.The message "S   1", means your chosen size is 85*45mm

5. After finished your demand paper size, the page will skip
to bar code main page (Please refer to figure 34)

8-5-3 Printing material   Thermal paper adapts to G-2108 model

1. If the Width of thermal paper is 10cm; it adapts to
85mm×45mm<L×H>

2. If the Width of thermal paper is 9cm; it adapts to
70mm×30mm<L×H>

8-6 Troubleshooting

Trouble state	Possible reason	Solution
Press "Print" button, but data doesn't transfer to bar code printer	1. BAR CODE and GAM-12 didn't connect well.	Make sure GAM12 is connected well to BAR CODE PRINTER
	2.Those three indicator lights of Bar Code Printer didn't light up completely.	1.Check the power switch, has it been turned on. 2.Please refer to list 1~list3
	3.GAM-12 input wrong data for editing inner code	Press ⬆ SELECT and 8 TUV go back original setting

List 1 BAR CODE indicator light lamped incompletely

Possible Cause	Recommend Solution	Remark
Paper sensor cannot find the space. (or black line 、holes)	1. Please make sure the paper is installed well. 2.Check the position of paper sensor, make sure it can search the space　(or black line, holes) 3.Please check standard paper sensor	If you use continued paper, please check the bar code printer's driver, make sure you have set correct printing format. (Paper type→ continued paper)
Out of papers	Install a row of label	
Paper stuck	Clear the papers	
Paper sensor is broken	Service the sensor	

List 2 READY and RIBBON L indicator lights blink at the same

tempo－Ribbon breakdown

Possible Cause	Recommend Solution	Remark
Run out of ribbon	Load a roll of ribbon	
Ribbon jam	Clear the jam	
Ribbon Sensor error	Service Ribbon Sensor	

List 3 READY and RIBBON those two indicator lights blink at the

same tempo

Possible Cause	Recommend Solution	Remark
The communication of host and print doesn't have the same speed.	Check DIP switches for baud rate setting	
Spill of memory	1. Turn off power switch of printer, and restart it. 2. Perform Reset	

Remark For clearly explanation, please refer to BAR CODE PRINT

G-2108 operation manual

8-7 GAM12 particular text editing mode

8-7-1 operation explanation

1. Printing page of bar code   (Refer to figure 35)

```
GENITEC ↵              ──────▶  First row: Text code
2006-01-01 ↵           ──────▶  Second row: Time code
S/N12345 ↵             ──────▶  Third row: Serial Number
SEL↑ CH ENT↵   PR      ──────▶  Forth row: Message column
```
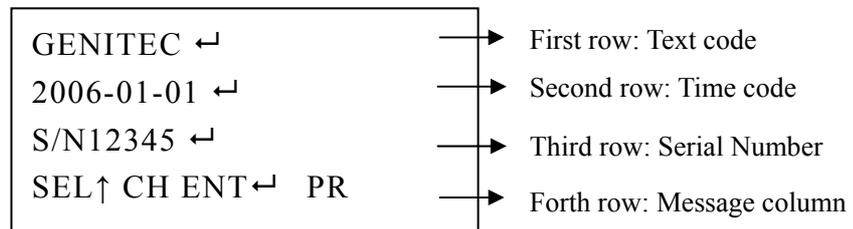
Figure 35

2. Press the button [↑ SELECT] , panel board will display as below
   (refer to figure 36)

Message columns will display "CH 1 2 3 ROW OR ENT↵"

```
GENITEC ↵              ──────▶  First row: Text code
2006-01-01 ↵           ──────▶  Second row: Time code
S/N12345 ↵             ──────▶  Third row: Serial Number
CH 1 2 3 ROW OR ENT↵   ──────▶  Forth row: Message column
```

Figure 36

3.   Press those two buttons at the same time (editing buttons of inner code), the panel board will display as the figure 37-39. (Refer to figure37-39)

(Inner code edition has three pages)

Message columns displays "CH ◄ ► ↑ OR ENT↵1/3"

(First page)

q680↵Q360,24↵R0,8↵JB	→ First row: Text code
↵D10↵S4↵A56,24,0,3,2	→ Second row: Text code
,3,N,″ # ″ ↵A56,104,0,2	→ Third row: Text code
CH ◄ ► ↑ OR ENT↵1/3	→ Forth row: Message column

Figure 37

(Second page)

,2,2,N,″!″↵B56,160,0	→ First row: Text code
,1,2,6,80,B,″ ' ! % ″ ↵	→ Second row: Text code
A56,272,0,2,1,2,N,″ '	→ Third row: Text code
CH ◄ ► ↑ OR ENT↵2/3	→ Forth row: Message column

Figure 38

(Third page)

″ ↵A56,320,0,3,1,1,N,	→ First row: Text code
″ % ″ ↵W1 ↵■ ■ ■ ■ ■ ■ ■	→ Second row: Text code
■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	→ Third row: Text code
CH ◄ ► ↑ OR ENT↵3/3	→ Forth row: Message column

Figure39

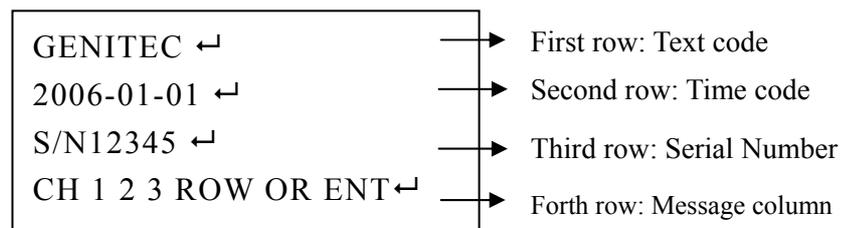Entry inner code to do modification CAUSER blinks stay at HOME of first row. User can develop your own inner code if need.

(1) ◀ button   CAUSER blinks position move to left.

    ① When HOME move to left, it will skip to END of third row on last page automatically. Three are pages exchangeable.

    ② When second row or third row moves to left, it will skip to the END of first row or second row.

(2) ▶ button   CAUSER blinks moving to the right.

    ① When END of the third row moves to the right, it will skip to HOME of the first row automatically. There are three pages exchangeable.

    ② When END of the first row or second row moves to the right, it will skip to HOME of the second row or third row.

(3) ↑ button   editing inner code switch to next page; page 1,2,3 are exchangeable; during switches to next page, CAUSER blinks stay at HOME of next page.

4. Press the button ↵ after you saved your data, it will back to setting page of bar code (Refer to figure 40)
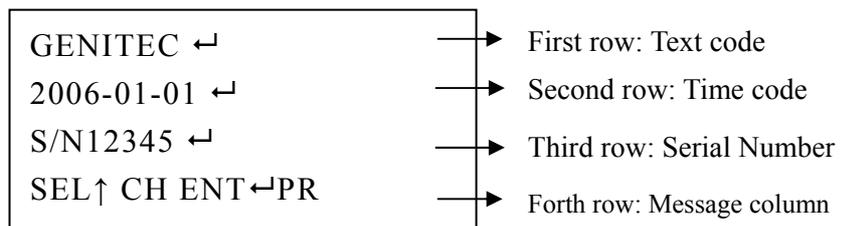
Message column will display "SEL↑CH ENT↵PR"

GENITEC ↵	→ First row: Text code
2006-01-01 ↵	→ Second row: Time code
S/N12345 ↵	→ Third row: Serial Number
SEL↑ CH ENT↵PR	→ Forth row: Message column

Figure 40

5. Press the button [ENTER], it will transfer the finished editing data to BAR CODE.

8-7-2 Editing of Inner code explanation

Example 1

GAM-12 transfer to BAR CODE's basic setting code of label

q680↵Q360,24↵R0,8↵JB↵D10↵S4↵

explanation

q Setting size of label width   680 dots

Q Setting label   Height 360dots   space 24dots

R setting origin of the coordinates   X:0dots   Y:8dots

JB Setting turn round function disables

D Setting Temp: 10 degrees

S setting printing speed   4ips (100 mm/s)

↵   Ending your command

Remark   Label size is 85mm×45mm, and then to calculate label size of basic code as below q(85×8=680) Q(45×8=360),(3×8=24)

Example 2

Required codes for printing one text

A56,24,0,3,2,3,N," # " ↵

Explanation

A Printing the text

56 Printing X coordinate of the text

24 Printing Y coordinate of the text

0 Printing direction

3 Your demand printed character

2 Horizontal enlargement range of text

3 Vertical enlargement range of text

N Printing original text

Call first row's bar code data

↵ End of order

Example 3

Required codes for printing one row

B56,160,0,1,2,6,80,B, " ' ! % " ↵

Explanation

B To print bar code

56 Bar code's X coordinate

160 Bar code's Y coordinate

0 Printing bar code direction

1 Printing bar code type

2 Width of printing narrow bar code

6 Wide of printing wide bar code

80 High of printing bar code

B Printing all text

' Call data of bar code page on the third row

! Call counting quality

%Call all data of bar code on the second row

↵ Ending your command

Example 4

Required codes for printing one label of bar code

W1↵

Explanation

W Printing label

1 Print one label

↵ End your command

8-7-3 Explanation all transmission codes of GAM12 and bar code printer

A. Printing transmission code of text

Ap1,p2,p3,p4,p5,p6,p7, " p8 " ↵

p1   X coordinate

p2   Y coordinate

p3   Printing direction

0   Non-rotate   1   Rotate90°

2   Rotate180°   3   Rotate270°

p4   Printed Character

1	Antiqua 1
2	Antiqua 2
3	Antiqua 3
4	Antiqua 4
5	Antiqua 5

p5   Range of horizontal enlargement 1-24

p6   Range of vertical enlargement 1-24

p7   Printing text condition

1.N   Normally (Black white bottom of world)

2.R   Printing opposite color of text (White black bottom of world)

p8   Printing required serial world

Remark   Algorithm of Coordinates

Example   Two worlds space on the label X:7mm   Y:3mm

, you need to set*8dots for coordinates

X   7*8=56dots

Y   3*8=24dots

The code of coordinates is p1   56   p2   24

<u>G</u>ENITEC

G coordination is (X7mm, Y3mm)

B. Transmission code of bar code printer

Bp1,p2,p3,p4,p5,p6,p7,p8, " p9 " ↵

p1   X coordination

p2   Y coordination

p3   Printing direction

0   Not rotate   1   To rotate 90°

2   To rotate 180°   3   To rotate 270°

p4   Bar code type

Chosen bar code type	Bar code type
0	Code 128 UCC (shipping container code)
1	Code 128 AUTO
1A	Code 128 subset A
1B	Code 128 subset B
1C	Code 128 subset C
1E	UCC/EAN
2	Interleaved 2 of 5
2C	Interleaved 2 of 5 with check sum digit
2D	Interleaved 2 of 5 with human readable check digit
2G	German Postcode
2M	Matrix 2 of 5
2U	UPC Interleaved 2 of 5

Chosen bar code type	Bar code type
3	Code 3 of 9
3C	Code 3 of 9 with check sum digit
3E	Extended Code 3 of 9
3F	Extended Code 3 of 9 with check sum digit
9	Code93
E30	EAN-13
E32	EAN-13 2 digit add-on
E35	EAN-13 5 digit add-on
E80	EAN-8
E82	EAN-8 2 digit add-on
E-85	EAN-8 5 digit add-on
K	Coda bar
P	Post net
UA0	UPC-A
UA2	UPC-A 2 digit add-on
UA5	UPC-A 5 digit add-on
UE0	UPC-E
UE2	UPC-E 2 digit add-on
UE5	UPC-E 5 digit add-on

P5: Setting width of narrow bar code, (dots) unit

P6: Setting width of wide bar code, (dots) unit

P7: Setting bar code's height (dots) unit

P8: Condition of printing bar code

    1. To choose 'B' printing with code

    2. To choose 'N' printing without code

p9   To print bar code data

Q. Transmission code of printing label size

    Qp1, p2 ↵

    p1   Label height   (dots) unit   value range 0-65535

    p2   Height of two bar code's space   (dots)unit

    Example   If the label size is 70mm×30mm, the space of two labels is 3mm; to calculate the transmission code of the label size's as below;

        Height   30mm×8dots=240dots

        Pitch   3mm×8dots=24dots

        Transmission Code: Q240, 24↵

q. Transmission code of label size

    qp1 ↵

    p1   Label width, (dots) unit

    example   If the label size is 70mm×30mm; the space between two labels is 3mm; to calculate the transmission code of the label size's as below;

        Width   70mm×8dots=560dots

        Transmission Code: q560↵