

# User Manual

Ver1.1 24EN

## 4 in 1 Parts Counter Magic e<sub>rp</sub>



Since 1988'

**Nama**

## Introduction

|              |  |                   |
|--------------|--|-------------------|
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## Important Warranty Information Regarding Counting System



**Note** See the warranty card for more information on warranty terms.

Original Instructions

NamA is not liable for any damage occurring due to improper use of these instructions.

The owner of the NamA device is obligated to:

- Ensure that the device is used only for its intended purpose.
- Ensure that the device is used only under the specified operating conditions.
- Regularly that only authorized and qualified personnel operate the device.
- Ensure that all operators of the device have ready access to these instructions.

Remove the packaging and check the general state of the equipment, and check the contents against the enclosed packing list.

In the event of any damage immediately inform the transport agent!

Please note: unauthorized repairs or modifications to the equipment will void the warranty!

In case of problems, please immediately contact us, giving the serial number of the machine!

### Usage and Safety precautions.

- Please read and learn this manual before using this product.
- This product is restricted to indoor use.
- Do not change or modify the functionality of the product.- Changes or modifications may result in personal injury and/or property damage. Any changes or modifications performed by a 3rd party on this completed appliance are not covered under NamA warranty service. NamA is not responsible for any safety problems, injuries, or damage resulting from 3<sup>rd</sup> party modifications.
- Do not disassemble, crush, puncture, shred or otherwise attempt to change the form of your product.
- Do not put a high degree of pressure on the product. This can cause leakage or an internal problem, resulting in overheating.
- Operating environment : Temperature : 15°C - 30°C when operating / Humidity : 20-80%
- Please turn off this product without using.
- Allow sufficient space around the product and install and use it on a flat surface.
- Do not use high frequency equipment near this product because it can cause equipment to malfunction.
- Do not place anything on the product.



Do not install this appliance near a heater or flammable material.

Use only NamA-approved adapters, batteries and cables. Unapproved adapters or cables can cause the battery to explode or damage this product.

- If you select rechargeable battery option, please make sure the battery is not user-serviceable or user-replaceable because this product is equipped with an internal battery.

This product can be compatible with other devices which get approved by EU, CE, FCC, UL, CSA, JSA.

Unapproved devices may result in an electric shock or fire.

Copying and distributing these instructions in their entirety or in part is only permitted by NamA approval in writing.

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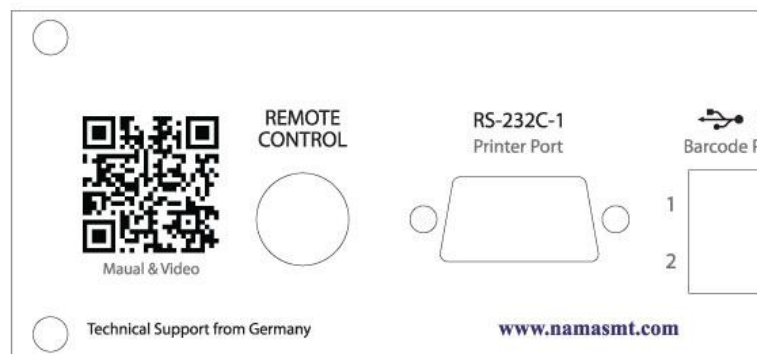
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#### Check the Symbol!



Note :  
Important Information












Tip :  
Useful Information



Caution :  
Caution Information

## 1. Getting Started

### 1.1. List of NamA Parts Counter Features

|   |   |   |
|---|---|---|
| 1 | Since 1988, the component counters have been manufactured by NamA.  |    |
| 2 | We pursue 0% "Error Rate"   |    |
| 3 | Customized bidirectional high speed motor & sensor unit   |    |
| 4 | 4 in 1. Various components can be counted.<br>( Type: Axial & Radial, SMD including 01005 inch chip + Short tape )        |    |
| 5 | High speed sensor can detect missing parts by 8 .12 .16. 24-48mm height adjustment knob. [Skip or Stop]                   |    |
| 6 | Automatic alignment function counts to the preset point. Then, Print a label.<br>Then, rewind to "0" Point automatically. |    |
| 7 | Simplified operating keys with only 7 Keys  |   |
| 8 | 2 x RS232c, 2 x USB Port (5V/2A)<br>Dot Printer, Barcode scanner, Barcode Printer, Bulk scale Interface & MP3 charge.     |  |
| 9 | Update port. Users can update own counter via updating files provided by NamA.  |  |

#### Other Features



Free Power Voltage  
110V-220V 50/60Hz



Automatic Sleep Mode



Able to Hand Carrying



Rechargeable Battery (op)



32 Bit Digital



Control Beep Sound

\* Features are depending on the model.

## 1.2. Packing Accessory



This Parts counter and its accessories are packed in a box. A printer will be packed separately.



Please make sure the following items are included with your parts counter. If any items are missing, contact your dealer or NamA directly within 3 days.



This item's colors and shapes may vary depending on the models.



Make sure to distinguish between the top and bottom of the box for prevent any damages during unpacking.

| Items   | Remarks  |
|---|--|
| <ul style="list-style-type: none"> <li>• <b>Parts Counter</b></li> <li>• <b>AC Power Cable</b></li> <li>• <b>Hexagon Wrench</b></li> <li>• <b>User's Manual</b></li> <li>• <b>Support Pin</b></li> </ul>              | <p>Main Item at the package</p> <p>In an accessory box</p> <p>In an accessory box</p> <p>USB / In a package</p> <p>In an accessory box</p>                           |
| <ul style="list-style-type: none"> <li>• <b>Dot Printer</b></li> <li>• <b>Barcode Printer</b></li> <li>• <b>Barcode Scanner</b></li> <li>• <b>Anti-static bracelet</b></li> <li>• <b>Data Link Adapter</b></li> </ul> | <p>Optional (Individual package)</p> <p>Optional (Individual package)</p> <p>Optional (Individual package)</p> <p>Optional</p> <p>Optional (in an accessory box)</p> |

## 1.3. Unpacking

①

Accessory Box



②



(NOTE: Packing condition is a subject to change without prior notice.)

- This machine is designed for indoor system.
- Please make sure to hold left and right arms horizontally during moving or unpacking
- Arrange the counter in an upright position on a stable, safe, flat surface.
- Please check each screw because some screws can be loosed during delivery. You can tighten the loosed screws with enclosed wrench.

## 1.4. How to Tighten up the Screws



Picture 1

When you get the product, it is set.

If it becomes loose during use, please tighten the screws for proper usage.

You can adjust spinning strength of crank unit by using enclosed hexagon wrench as a **Picture 1**.

## 1.5. How to Use a Support Pole



Picture 2

This product provides a support pole as a **Picture 2**  
There is a screw hole at the bottom of the machine as a **Picture 3**.



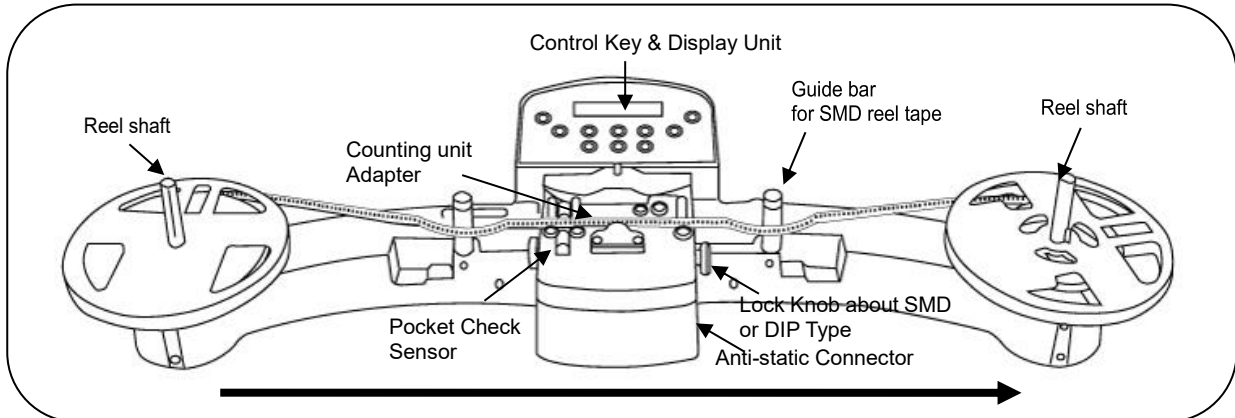
Picture 3

## 2. Basic Features

### 2.1. Viewing the Control Panel



Product design and shape may be changed without notice.



Picture 4

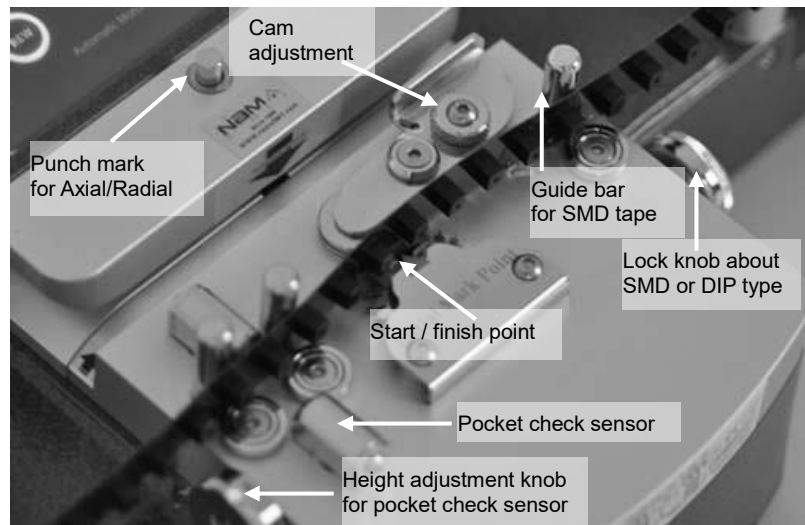
NOTE: **Counting Direction:** From the left side to the right side.



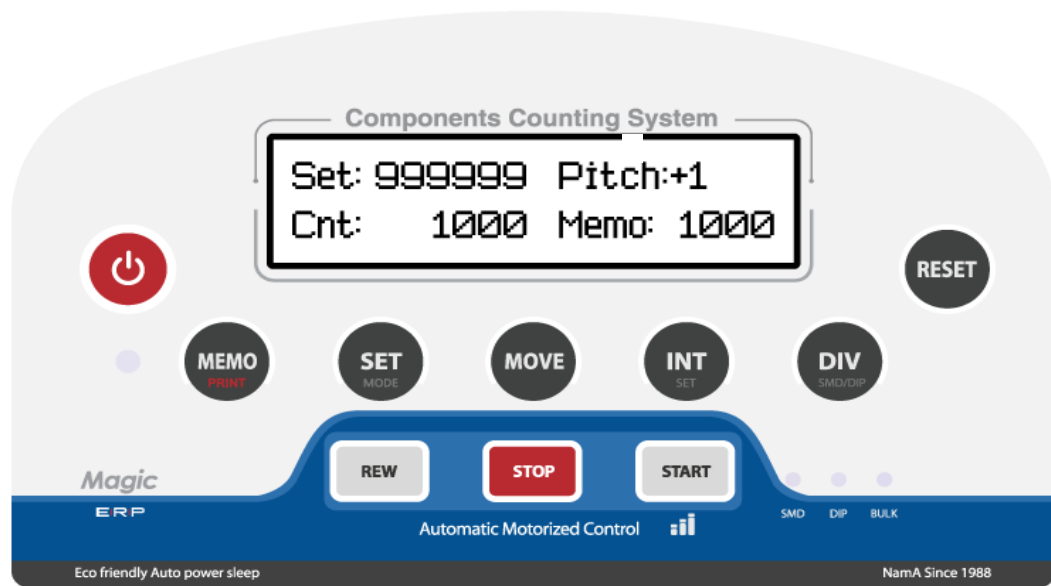
In the case of moving to the opposite direction(-) or exceeding the preset quantity, the machine will sound an alarm.



Fiber amp for  
Pocket check







Picture 5

|  |       |  |
|--|-------|--|
|  | ON    | Power ON / OFF   |
|  | MEMO  | Memorize Current Q'ty on the screen. / Press 3 seconds : Label printing(op)              |
|  | SET   | Setting Preset Value / Press 3 seconds : Enter the setting menu (Sound / Display / Date) |
|  | MOVE  | During setting, moving the cursor or selecting +/-                                       |
|  | INT   | Numbering  |
|  | DIV   | Setting Pitch Value  |
|  | RESET | Reset counting Q'ty or Setting button during pitch setting.                              |

#### Auto Sleep Mode

To save the power the machine will automatically shut off after 10 minutes of non-use.



## 2.2. Main Menu Setting

### ● Menu Structure

|                      |   |
|----------------------|---|
| Pocket Sensor Set    | ⇒ Install ⇒ Not Install                   |
| Pocket Check Set     | ⇒ Skip ⇒ Stop                             |
| Beep Setting         | ⇒ High ⇒ Middle ⇒ Low ⇒ Off               |
| LCD Contrast Setting |   |
| Printer Setting      | ⇒ Barcode 243 ⇒ Barcode 225 ⇒ Dot Printer |
| Key Light            | ⇒ Display Light On/Off ( with INT key)    |
| Clock Setting        | ⇒ Date & Time ( with Move/INT key)        |
| Company Name Set     | ⇒ Input company name with Move/INT key    |

By pressing **SET MODE** key for 3 seconds, you can enter setting menu. You can use **INT / MOVE** or **DIV** keys for changing the setting value.

1. **Pocket Sensor Set** : Turn on/off pocket check feature with **INT** key.



We guarantee only black pocket type reel with this feature. We do not guarantee transparency or white reel with this feature. Please turn off this feature during use transparency reel. It can occur counting error.

2. **Pocket Check Set** : Setting motion when the sensor finds an empty parts.



- **Skip** : This option proceeds as planned without stopping when the sensor finds an empty parts. It doesn't count the empty parts.
- **Stop** : This option stops the counting when the sensor finds an empty parts. Users can find the location of the empty parts.

3. **Beep Sound Setting** : Adjusts the volume level. Using **INT** and **DIV** keys.



4. **LCD Contrast Setting** : Adjusts the LCD contrast. Using **INT** and **DIV** keys.



The setting is already done when it comes out of the factory.

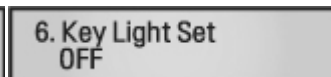
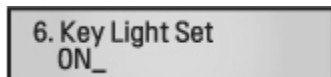
5. **Printer Setting** : Setting printer type.



\*Thermal : TTP 243 Model / Barcode : TDP 225Model / DOT : Dot Printer



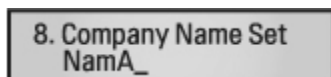
6. **Key Light Set** : Turn on/off the key light. Using **INT** key.



7. **Clock Setting** : Set the date and time. Using **MOVE** / **INT** / **DIV** keys.




8. **Company Name Set** : Enter company name. Using **MOVE** / **INT** / **DIV** keys.

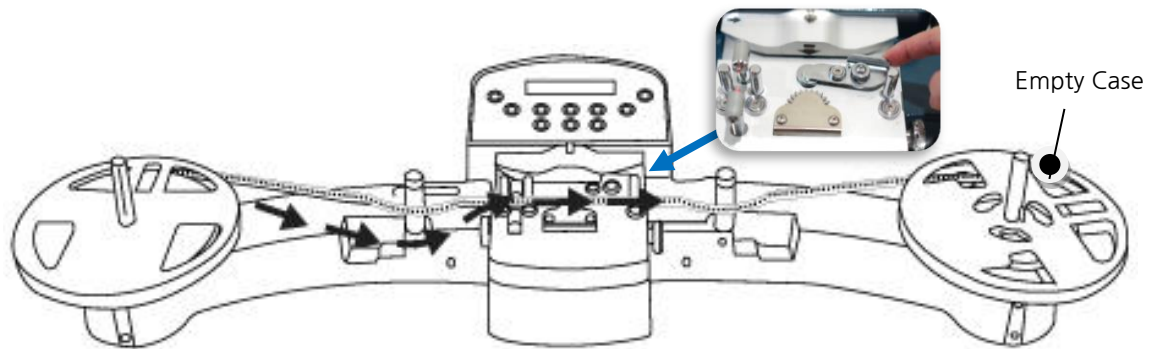


You can input A~Z, 1~0 and several symbols.

## 2.3. How to Mount Component

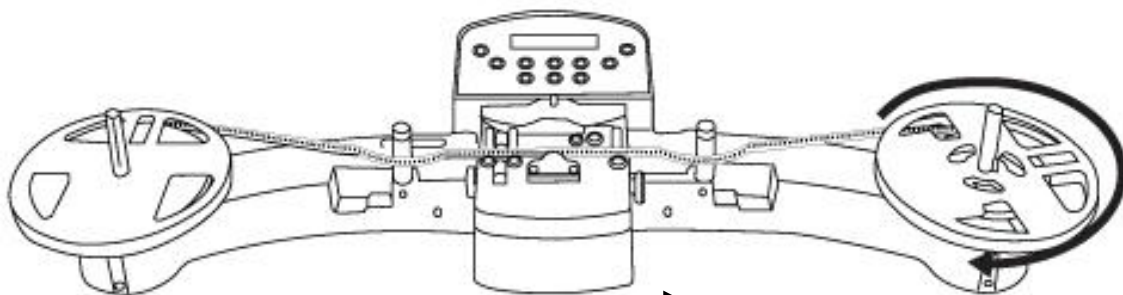
### 2.3.1. SMD Reel

- Before counting SMD components, please turn on the machine by pressing  key.
- Place the empty reel at the right crank unit and place a temp reel at the left crank unit.
- Press the cam handle to avoid the counting wheel damage when you mount the reel.



Picture 6

As a **Picture 6**, lead the tape through the counting gears.



Picture 7

As a **Picture 7**, lead the tape into the empty reel case. Then, turn the right case to the right.

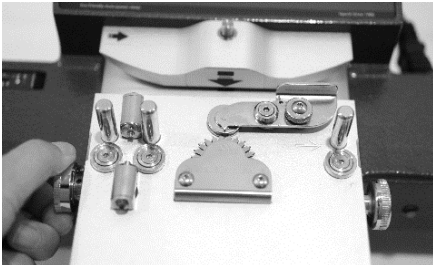


At the first, preset value is zero'0'. While mounting the reel, the machine will sound an alarm. You can turn off or on the beep sound by pressing on/off button at the top of the machine. Or you can preset the counting value high not to hear the beep sound.

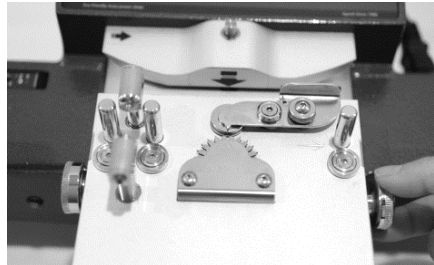
### 2.3.2. DIP (Axial & Radial)

#### ① Set the Counting Adapter for DIP parts.

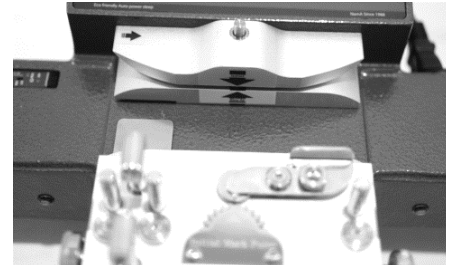
Before counting Axial and Radial components, remove the adapter and set the width of the guide bracket as below pictures.



① Turn the left handle to raise the pocket sensor higher.



② Loosen the right knob.

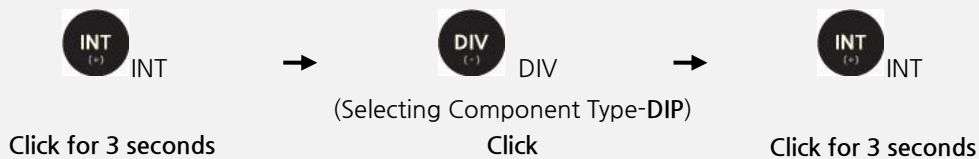


③ Lower the counting adapter down the width of the DIP part. Then retighten the screw.

#### ② Change Counting component type into DIP parts

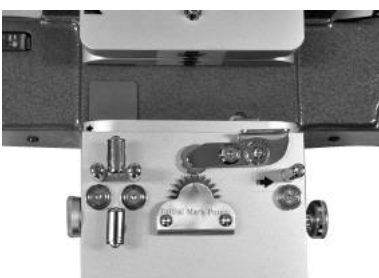
Before start the counting DIP parts, please select the device type first.

**[Example]** Setting Device type.



#### ③ Counting DIP parts

If you are ready to count, please count the components as below pictures.



① Before counting  
Tighten the knob with the width of the DIP part.



② **Axial** device counting  
Lead the parts through the center sensor from left to right.  
Pitch value is +1.



③ **Radial** device counting  
Lead the parts through the center sensor from left to right.  
Pitch value is -2.

#### ④ Mark a point on the Dip tape

To realize how many components you counted you can mark a point on the tape by pushing the button at the center of the counting sensor.



① After counting, push the button at the center of the counting sensor.



② A marked tape.

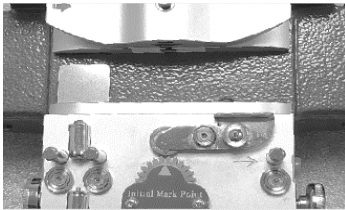


Make sure it needs to fit the SMD counting adapter cleverly again after counting DIP components. Tighten the screw of the counting adapter. If there is any gap, the machine can't count SMD components or leads to greater error in the SMD count.

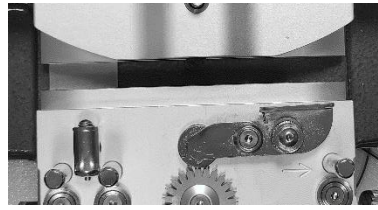


After finishing Dip device counting, please change the device type into SMD device type again.

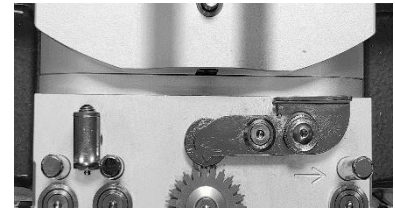
#### ⑤ Before Counting SMD



① Before closing the SMD counting adapter



② Pushing the adapter slowly. Then, it stops for DIP parts.



③ Pushing the adapter more, it fits with the head. without gap. Now, it is ready to count SMD parts.

and select counting type into SMD.

## 2.4. How to Preset Counting Q'ty

Before counting, set preset value in advance.



First of all, reset counting Q'ty into zero'0' by pressing "RESET"  key before set the menu or preset value

as next picture. Cnt: 0

How to set preset value

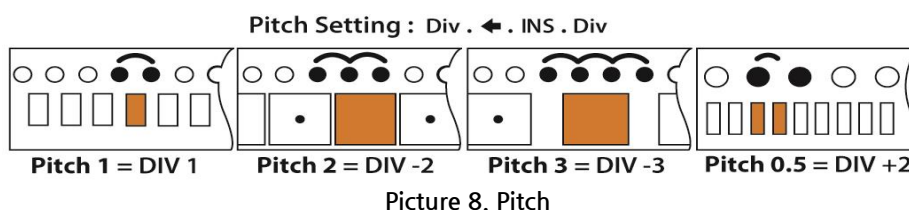


**Example]** Set preset value as 3500



## 2.5. How to Set Pitch

Before the counting, set correct tape pitch. (The wrong tape pitch causes incorrect counting result.)  
 Please refer **Picture 8**. Pitch for setting the tape pitch.



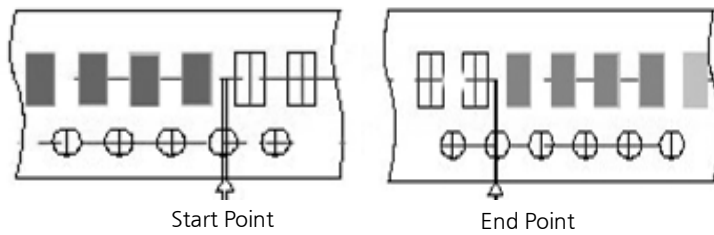
How to set the tape pitch



**Example]** Pitch setting




## 2.6. How to Count



Picture 9



- Before starting the counting, make sure the start point should be the same position as initial mark point at the center adapter as a Picture 9 Then, press  Reset key.
- Now you can press "START" key.
- The screen shows the counting Q'ty in real time.
- If the counting Q'ty is over than preset value, the machine will sound an alarm.

## 2.7. 3 Playing Mode

All NamA's automatic parts counters provide 3 playing modes.




- **Short Playing Mode** : Press the 'START' key briefly. The motor will operate shortly.  
This function is useful for additional counting for forwarding or rewarding direction. Only few components will be counted..
- **Auto Playing Mode** : Press the 'START' key for 2 seconds. Then, it will move until preset Q'ty(setting value) or end of the reel tape automatically.
- **Auto Alignment Mode** : If you press the 'START' key for 4~5 seconds, this mode will be operated automatically.


At this mode, you can count the reel until preset Q'ty. Then, it also counts to the first location automatically. This mode helps to check the Q'ty several times automatically. Please check the label of the printer will be printed automatically at the point of preset Q'ty if the counter is connected with the printer.



## 2.8. How to Leave Count Q'ty Memo

When you want to note current counting Q'ty, just press the **Memo**  key for the note.

Only one of the Q'ty can be displayed. If the machine is turned on newly, the value of the memo changed into zero '0'.

Press the  **Memo** key one second, current Q'ty will be displayed on the screen as below.



**[Example]** How to note the current Q'ty


Set : 5001 Pitch : +1  
Cnt : **2500** Memo : 0



Click →

Set : 5001 Pitch : +1  
Cnt : 2500 Memo : **2500**



If you press the **Memo**  key 3 seconds, the label will be printed automatically from the printer. (optional)

## 2.9. Finishing Counting



After count, rewind the original reel like in the beginning. If not, the polarity of the reel can be changed while it is using at the pick and place machine.

- Press "REW" key.
- Please rewind the reel from right to left.



You can double check the Q'ty again.

## 2.10. Pocket Check Sensor Setting

For using pocket check feature properly, please check below information carefully.



We guarantee **only black pocket type reel** with this feature. We do not guarantee transparency or white reel with this feature. Please turn off this feature during use transparency reel. It can occur counting error.

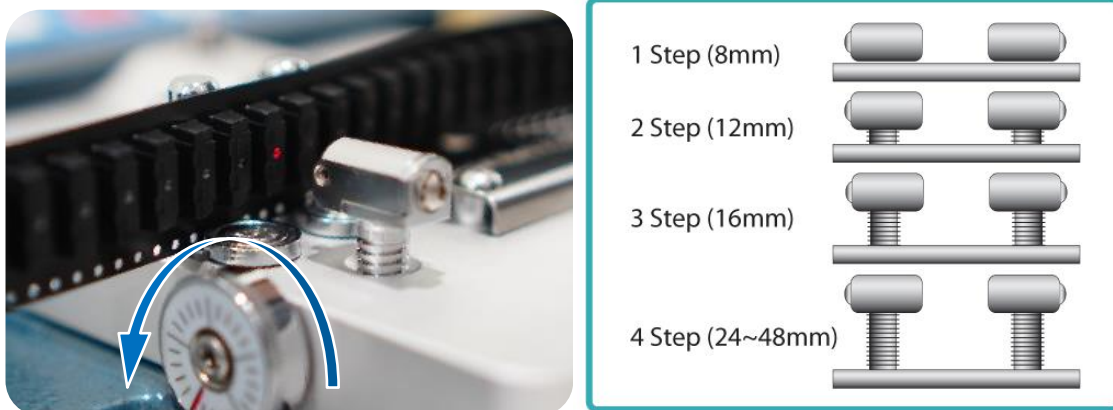
### 2.10.1. Pocket Check Sensor Setting

The Pocket check feature is for finding the empty parts at the reel. There are two modes, skip and stop.

- **Skip** : This option proceeds as planned without stopping when the sensor finds an empty parts. It doesn't count the empty parts.
- **Stop** : This option stops the counting when the sensor finds an empty parts. Users can find the location of the empty parts.

### 2.10.2. Sensor Height

The height of the Pocket Check sensor can be adjusted with height adjustment knob. Please refer below picture.

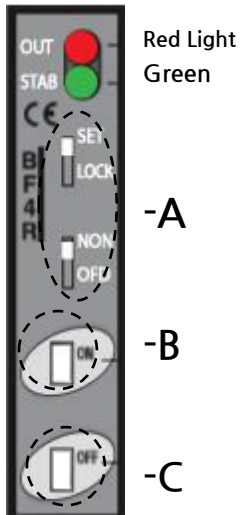


Picture 10

### 2.10.3. Sensor Fiber amp Setting

It is for setting Pocket Check sensor, Fiber amp. This fiber amp is already set when this counter came out from the factory. You don't need to set again but it is for the setting when the fiber amp needs to set again in the future.

\*For the black color pocket type reel. (Light On Mode)



- ① Please set A switches into "SET" and "NON".

Then, press B and C buttons at the same time. Then, you can find a red light and a green light will blink.

- ② While covering the sensor as a picture, press B(ON) button. Then, the red light and green light will blink once.



- ③ Without covering the sensor, please press C(OFF) button. Then, the green light will turn on.

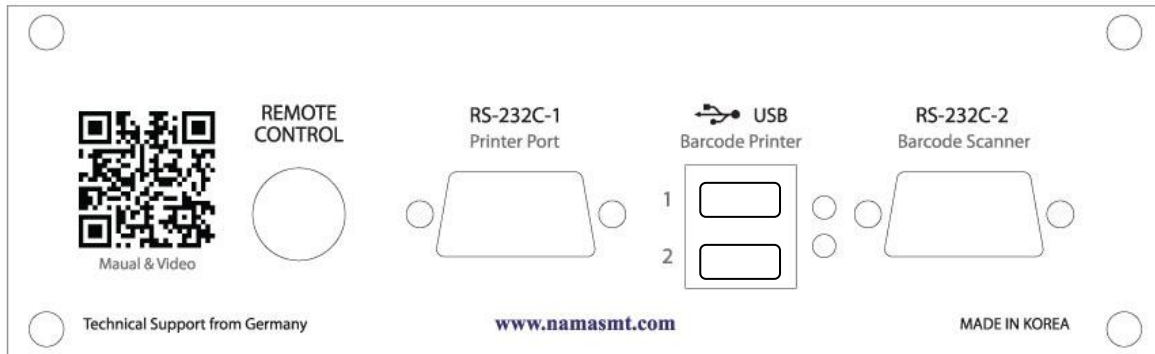


- ④ After setting, please set A switches into "LOCK". Now you can use pocket check feature properly.

## 2.11. Back Panel

There are two types of back panel. A type and B type. Please check your back panel type in advance.

### 2.11.1. A type



\*Depending on the version, it can be different.

① **PS2 Port (Remote Control or Upgrade)**

It is for connecting of foot remote switch or upgrading the machine.

② **RS-232C Port-1 (Printer / Data Link Adapter)**

It is for Dot/Barcode Printer and data link adapter.

Any damages from unauthorized use or products will void the warranty!

③ **USB Port (Barcode Scanner or Upgrade)**

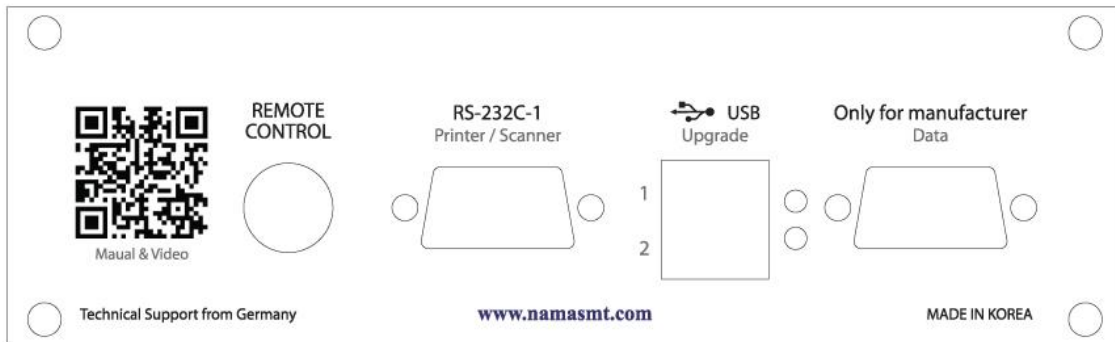
It is for USB type barcode scanner and upgrading.

Also, you can use this port for charging cell phone.

④ **RS-232C Port-2 (Barcode Scanner)**

It is for RS-232Ctype barcode scanner.

### 2.11.2. B type



① **PS2 Port (Remote Control or Upgrade)**

It is for connecting of foot remote switch or upgrading the machine.

② **RS-232C Port-1 (Printer & Scanner)**

It is for Dot/Barcode Printer and barcode scanner.

Any damages from unauthorized use or products will void the warranty!

③ **USB Port (Barcode Scanner or Upgrade)**

It is for USB type barcode scanner and upgrading.

Also, you can use this port for charging cell phone.

④ **RS-232C Port-2 (Manufacturer Data)**

It is for manufacturer's data. It is not be used in connection with other devices.



- Use only NamA approved devices. Unapproved devices can cause the battery to explode or damage the product. NamA won't liable for any damage or problem from these causes.
- Please make sure to turn off the products before connecting with other devices. After connecting, please turn on the product.



The slide out fuse holder also has room to stash an extra fuse as below

**Power and fuse**



**How to open a fuse cover - 1**



**How to open a fuse cover-2**



- Power : 110V - 220V 50/60Hz  
Free Power Voltage
- Please refer to square in the picture.
- Fuse capacity: 2A (Mini Fuse)

① Please use hexagon wrench for opening the fuse cover.

② There is a fuse inside of the cover.

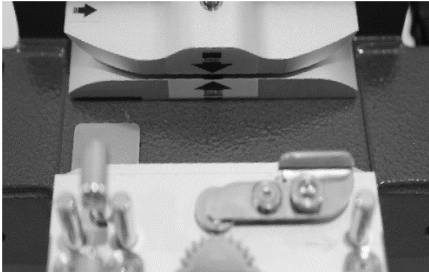
\* The design and shape may be changed without notice.

### 3. Advanced Features (Optional)

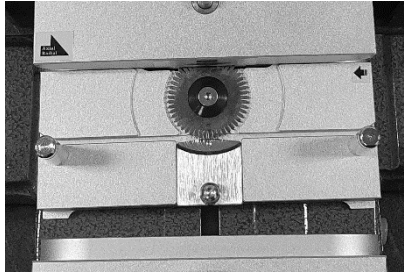
#### 3.1. 01005 inch SMD component Counting Adaptor

For counting 01005inch(2mm) SMD components, this adaptor option should be selected.  
Please refer below instruction to count 01005 inch SMD components.

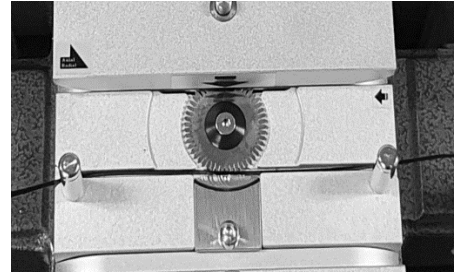
##### How to change the adapter



① Loosen the right knob. Lower the counting adapter down the width of the 01005 counting adapter.



② Place the 01005 counting adapter on the counter.



③ Raise the counting adapter to fit the 01005 adapter. And retighten the screw.

\* The design and shape may be changed without notice.



Before sliding the counting adapter, please raise the pocket check sensor. If not, the sensor can be damaged.



The pitch value of 01005 inch component is +2.

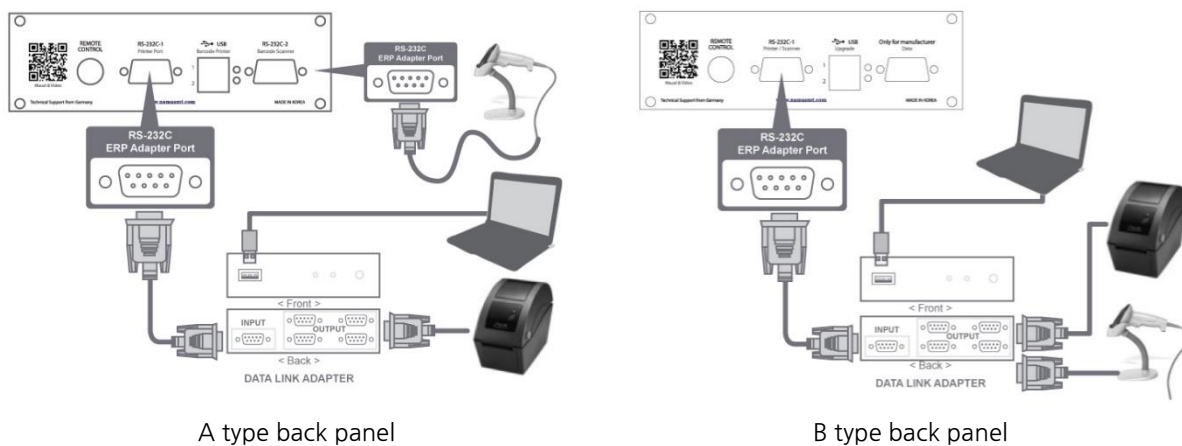
## 3.2. Data Link Adapter

To transfer date, time and Q'ty information into a computer, a data link adapter should be connected.

### 3.2.1. Connection Using RS-232C Cable

Please refer Picture 11 for connection using RS-232C cable and data link adapter.

- Connection between **counter and adapter**  
 : Connect the RS-232C -1 port on the back panel of the counter and the INPUT RS232C port on the back of the adapter with a RS232C cable.
- Connection between **adapter and computer**  
 : Connect the USB port on the front of the adapter and the computer USB port with an USB cable.



Picture 11

### 3.2.2. Change Adapter Data Type

To change the output type, you can click the button at the adapter.

|   | A                 | B     | C |
|---|-------------------|-------|---|
| 1 | 2018,07,21(13,50) | 2,000 |   |
| 2 | 2018,07,21(13,51) | 3,500 |   |
| 3 | 3,500             |       |   |
| 4 | 2018,07,21(13,53) |       |   |
| 5 |                   |       |   |
| 6 |                   |       |   |

✓ **Red + Green** : **Date (Time)** : yyyy.mm.dd(hh,mm) Q'ty  
 ex) 2018.01.01(13,05) / 3,500

✓ **Red** : **Q'ty** : ex ) 3,500

✓ **Green** : **Date (Time)** : yyyy.mm.dd(hh,mm)  
 ex) 2018.01.01(13,05)

\*Printing type at MS- Excel software.





You can input date, time and Q'ty information into PC or lab-top by using the adapter.  
 Data can be input at the actual pointer position.


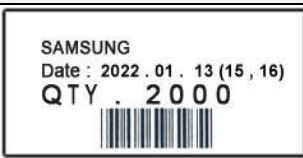

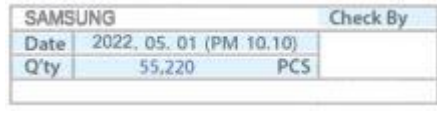
\*Available programs : MS-word/excel, memo pad, note pad, ERP system.



### 3.3. Printer (Barcode or Dot Type)

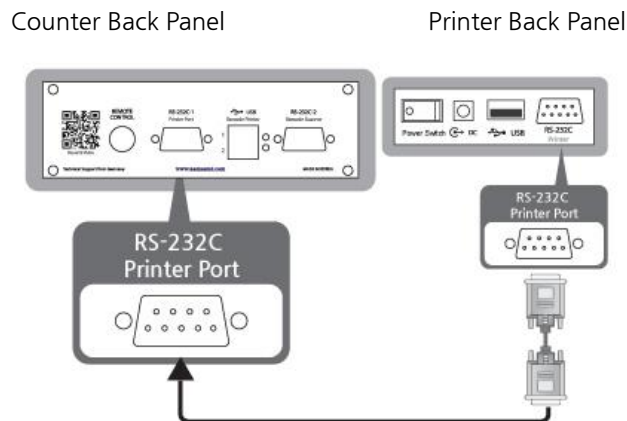
There are three models of printer as below.

 Pressing **Memo**  key more than 3 seconds, the label is printed automatically.

| No. | Printer Model   | Detail   | Label   |
|-----|---|--|---|
| 1   |  | <b>Barcode Printer_1</b><br>Direct Thermal Type.<br>Model : TDP 225<br>RS-232C Connector |  |
| 2   |  | <b>Dot Printer</b><br>Dot Type.<br>Model: LK-D10<br>RS-232C Connector                    |   |

Please refer to **Picture 12** for the connecting.

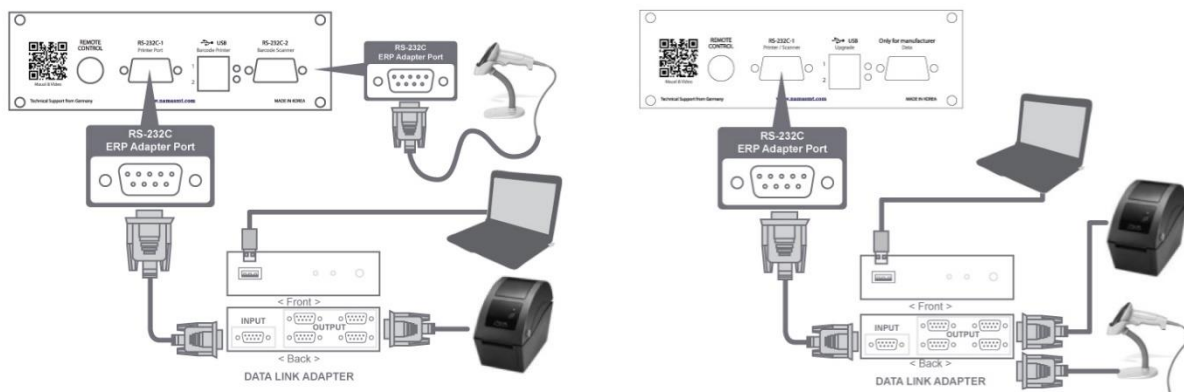
#### ① Direct connecting with the counter



Picture 12

#### ② Connecting with the data link adapter and printer

The printer cable can be connected to the output port on the back of the data link adapter.





A type back panel

B type back panel

\*Further information, please refer original manual.

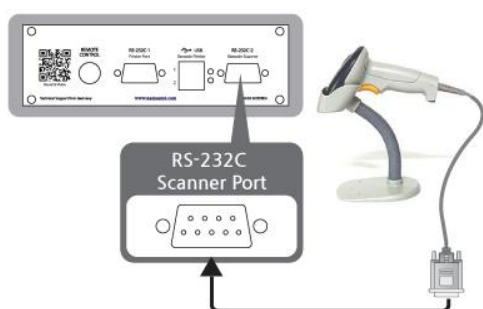
### 3.4. Barcode Scanner

There are two models of barcode scanner as below.

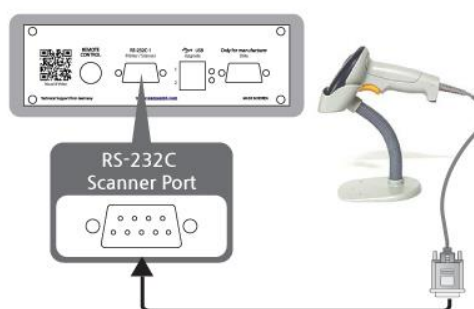
| No. | Printer Model   | Detail                                      | Remark                     |
|-----|---|---|----------------------------|
| 1   |  | Optic Type<br>RS-232C Connector or USB type | Cheap and Normal           |
| 2   |  | Laser Type<br>RS-232C Connector             | Expensive and High quality |

Please refer to **Picture 13** for the connecting.

#### ① Direct connecting with the counter



A type back panel

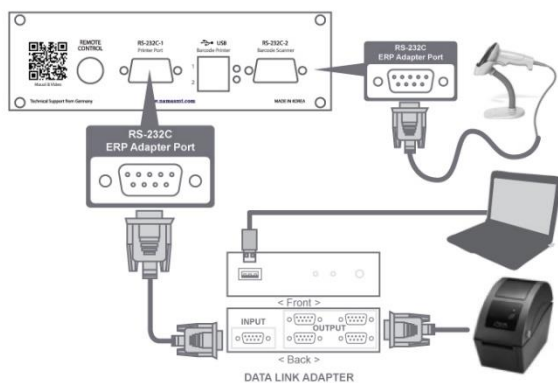


B type back panel

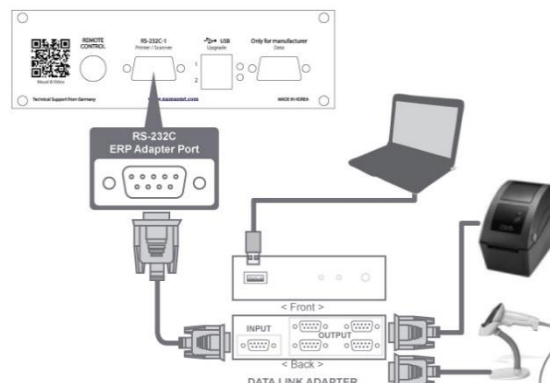
Picture 13.

#### ② Connecting with the data link adapter and scanner

The scanner cable can be connected to the output port on the back of the data link adapter.



A type back panel



B type back panel

\*Further information, please refer original manual.

## 4. Other Information

### 4.1. Trouble Shooting



When a problem occurs with the product, try these solutions. If you try as below solution but fail, please contact NamA or seller directly.

| Problems   | Solution   |
|--|--|
| Counter  |  |
| The counter shows wrong counting value             | <ul style="list-style-type: none"><li>• Check if you reset the counting value into zero before counting.</li><li>• Check if the pitch value is correct with the reel.</li><li>• Tighten the cam by using hexagon wrench.</li><li>• Tighten the counting gear by using hexagon wrench.</li><li>• Please check if pocket check feature is on and its setting is properly or not.</li></ul> |
| It can't count at all.                             | <ul style="list-style-type: none"><li>• Check if the power is connected well.</li><li>• Check if the battery power level is enough.</li><li>• Check if the SMD counting adapter fit cleverly. If not, the machine can't work at all.</li></ul>   |
| Motors don't work.                                 | <ul style="list-style-type: none"><li>• Please set preset value excepting zero'0'.</li><li>• Please set pocket check feature into off and pass.</li></ul>  |
| It can't be turned on.                             | <ul style="list-style-type: none"><li>• Check if the power connects well.</li><li>• Check if the power switch turns on.</li><li>• Please check the fuse.</li></ul>   |
| Hearing Beep Sound<br>Or can't hear beep sound     | <ul style="list-style-type: none"><li>• Check if the real counting Q'ty is over the preset value.</li><li>• Check if the real counting value is minus. (bi-direction)</li><li>• Check if the setting of beep sound is on/off</li></ul>   |
| The LCD backlight doesn't turn on.                 | <ul style="list-style-type: none"><li>• Please check if the backlight setting is ON.</li><li>• Check if AC power is connected well.</li><li>• Check if the AC fuse Off. If so, please replace the AC fuse.</li></ul>   |
| SMD reels often deviate from the counting adapter. | <ul style="list-style-type: none"><li>• Please tighten the cam and SMD counting wheel.</li><li>• Even if it is still deviate, the counting adapter or wheel might needs replacement.</li></ul>   |

| Option                         |  |
|--------------------------------|--|
| A printer doesn't work         | <ul style="list-style-type: none"> <li>• Check if a printer is connected with counter and its power.</li> <li>• If the power lamp doesn't turn on after connecting properly, please contact with NamA or seller.</li> <li>• Check if the ribbon is located at the center of the head.</li> <li>• Check if replacement time of ribbon.</li> </ul> |
| A barcode scanner doesn't work | <ul style="list-style-type: none"> <li>• Please move the scanner at the label from top to bottom. Like scratch.</li> <li>• Check if NamA recommends the scanner. Because each scanner uses different signals, please make sure to use the recommended products.</li> </ul>   |



If you have further problem or questions, please contact NamA or seller.

## 4.2. Storage and Maintenance

### 4.2.1. Storage after using

- This product is restricted to indoor use.
- This product allowed 110-220V 50/60Hz.
- Please turn off this product via power off button without using.
- Only place the counter within the temperature and humidity ranges specified in this manual.
- Avoid exposing a counter to magnetic fields. LCD screen can be damaged.
- Avoid any damage by dropping or shock.

### 4.2.2. Precaution using a printer

- Please turn off the counter when connecting with other devices.
- Be careful not to jam the paper or not to stick something in the printer.
- Make sure the counter needs to be turned off during connecting cable between printer and counter.
- Before using a printer, please fully understand its manual.

### 4.2.3. Warranty

NamA warrants this product against defects in materials and workmanship under normal use for a period of ONE (1) YEAR from the date of retail purchase by the original end-user purchaser ("Warranty Period").

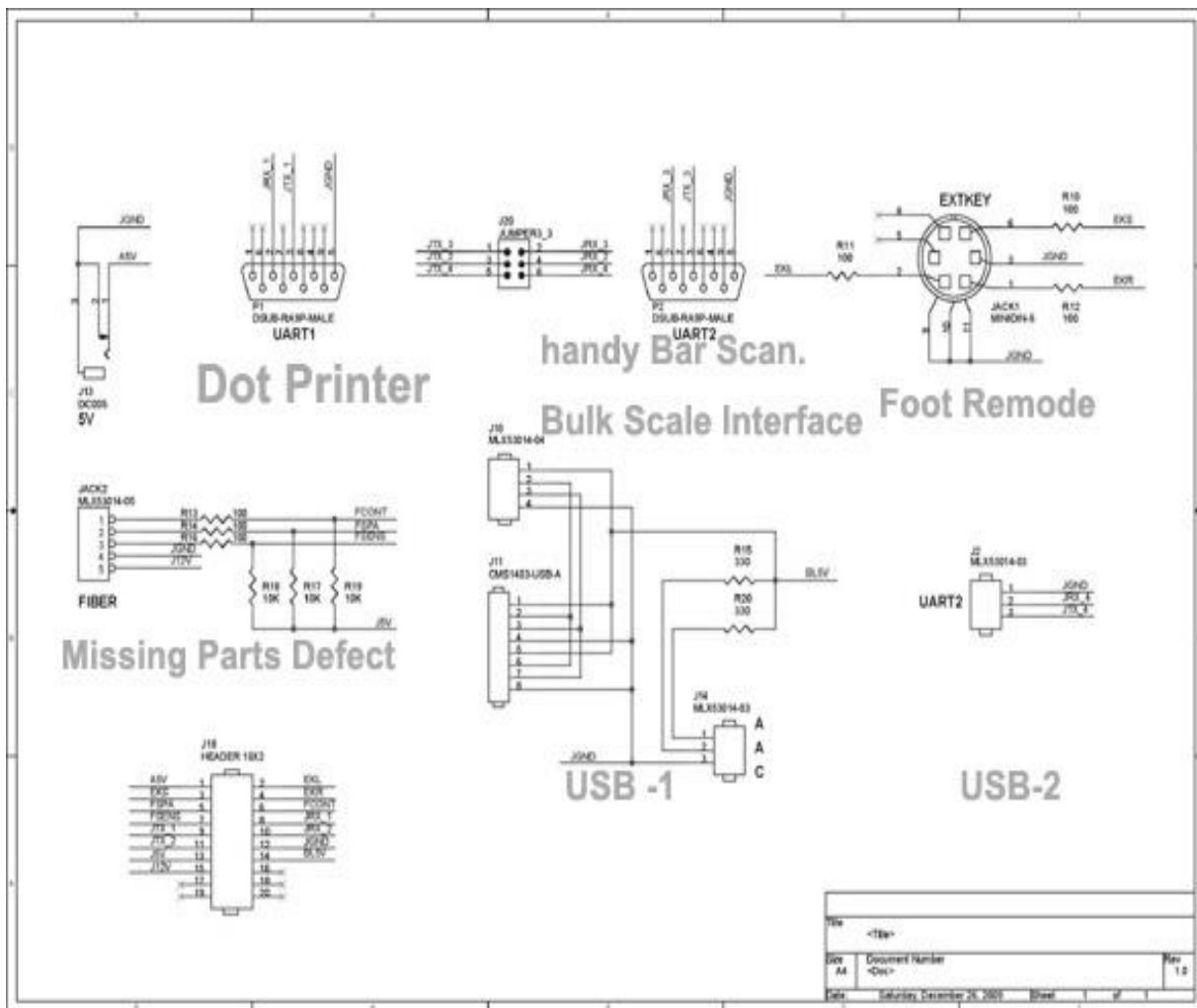
Please refer a screen, motor are not covered under this Limited Warranty



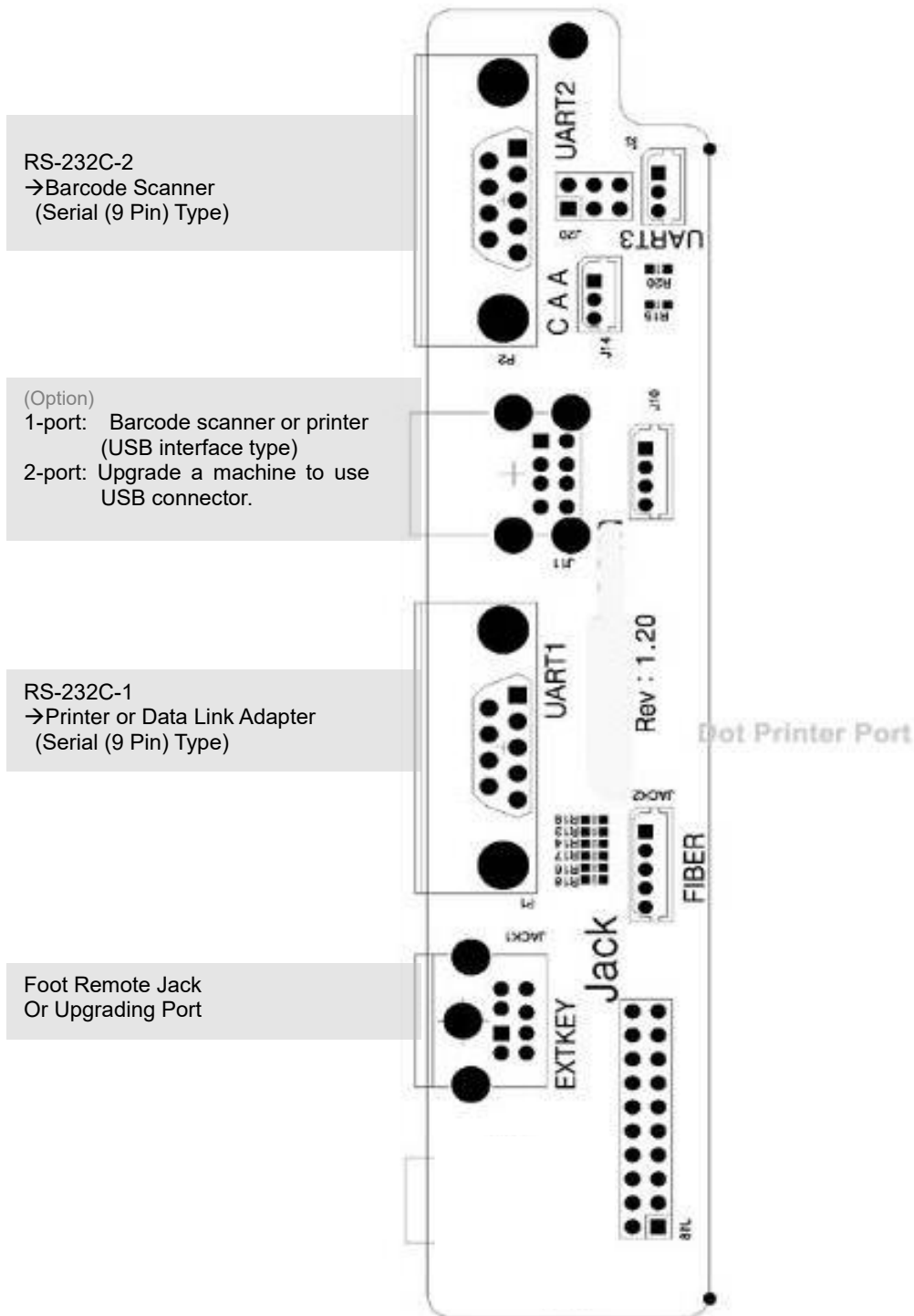
Further information, please contact with NamA or seller directly.

### 4.3. Diagram

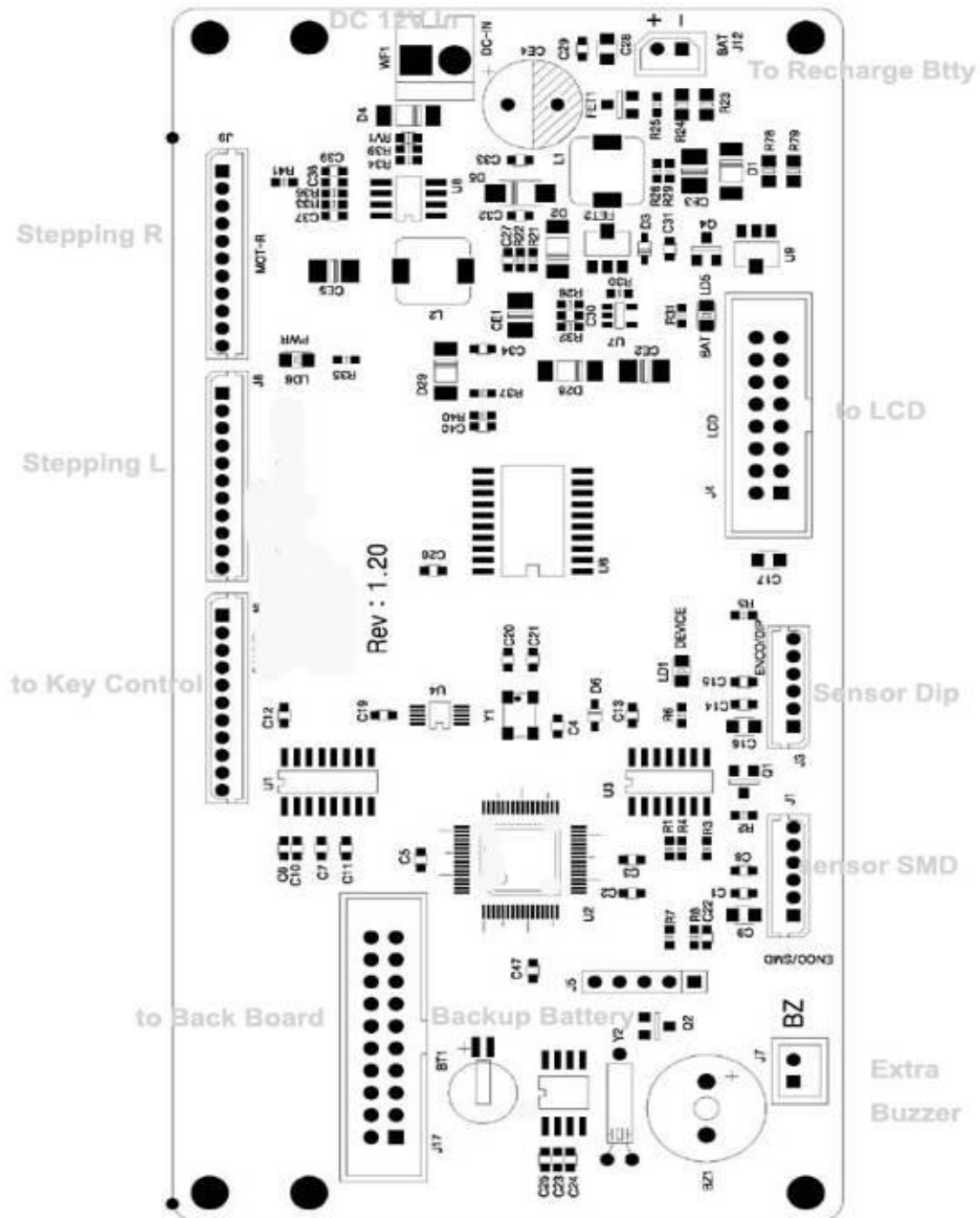
#### 4.3.1. Back Plate Connection Diagram



### 4.3.2. Back Plate PCB board Diagram



### 4.3.3. Main Board Connection Diagram





#### 4.4. Specification

| No. | ITEMS                  | STANDARD  | REMARK   |
|-----|------------------------|---|--|
| 1   | Micro Processor        | 32 bit / data backup memory   |  |
| 2   | Counting method        | Method of Encoder sensor  |  |
| 3   | Main AC Power          | Input: 110Volt to 220 Volt  | Free power                                     |
|     |                        | Internal voltage: DC 12Volt / 4A  |  |
| 4   | Stepping motor         | DC 12 Volt  |  |
| 5   | Input of power control | DC 5 Volt   |  |
| 6   | Counting direction     | From Left to Right and Right to Left  | Bi-direction                                   |
| 7   | Counting sensor        | Both sides  | Available                                      |
|     |                        | Plus (+) and Minus (-)  | Available                                      |
| 8   | Count unit             | 6 digits / 000,000  | -999,000 ~ +999,999                            |
| 9   | Error range            | +/- 1%  | miss-set                                       |
| 10  | Counting speed         | 5000pcs per 30~40sec  |  |
| 11  | Counting ability       | 1 X 20 step ( x 4mm)<br>8mm ~ 72mm tape available   | 01005 inch SMD<br>component available (option) |
| 12  | Main control Key       | 7 Keys  |  |
| 13  | Motor control key      | 3 keys : Start / Stop / Back  |  |
| 14  | Material of exterior   | sheet metal and steel   |  |
| 15  | Interface              | 2 x USB ports : Barcode scanner and<br>upgrading<br>1 x RS232C port : Barcode Printer<br>or Data Link Adapter<br>1 x RS232C port: Barcode scanner<br>1 x Remote control |  |
| 16  | Dimensions             | 800 x 270 x 130 mm  |  |
| 17  | Net Weight             | Approx. 8.4KG   |  |



#### NOTE

- Specification and design are subjects to change without prior notice.
- For after sales service, contact NamA or seller directly or refer to the NamA website [www.neikorea.com](http://www.neikorea.com).
- The broken LCD, other consumables, rechargeable battery, motors and accessories are not covered under this Limited Warranty.

## 4.5. NamA Parts Counter

**Mega\_** Manual SMD Parts Counter



**Magic E\_** Automatic SMD, Axial & Radial Parts Counter including Pocket Check feature



**Giga\_** Automatic SMD Parts Counter



**Giga S\_** Automatic SMD Parts Counter including Pocket Check feature



## 4.6. Accessories (Optional)

**Label Printer\_**Dot Type



**Crank Handle\_**Manual type's counters include it basically.



**Barcode Printer\_**Barcode Type



**Barcode Scanner**



or



Optic

Laser

**Data Link Adapter**



## 4.7. Specification of NamA Counters

● : Standard / ▲ : Optional

| No | Feature   |                             | Mega  | Giga    | Giga S  | Magic E |
|----|---|-----------------------------|---|---------|---------|---------|
| 1  | Type of parts counter   |                             | Manual  | Auto    | Auto    | Auto    |
| 2  | Count type  | SMD                         | ●   | ●       | ●       | ●       |
|    |   | Axial, Radial               |   |         |         | ●       |
|    |   | 01005 inch(2mm pitch) chips |   |         |         | ▲       |
| 3  | Pocket check function for SMD chips<br>8,12,16,24 ~ 48mm steps<br>for black pocket reel |                             |   |         | ●       | ●       |
| 4  | Mark a point on the Axial, Radial tape  |                             |   |         |         | ●       |
| 5  | Memory for counting quantity  |                             |   | ●       | ●       | ●       |
| 6  | Count 5,000 chips per 40~50sec.   |                             | Manual  | ●       | ●       | ●       |
| 7  | SMD counting direction<br>(←:Left to Right , →:Right to Left)                           |                             | ←   | ←       | ←       | →       |
| 8  | Bidirectional counting  |                             | ●   | ●       | ●       | ●       |
| 9  | Edit company name, date, time   |                             |   | ●       | ●       | ●       |
| 10 | Interface   | 2 x RS232C Ports            | 1   | ●       | ●       | ●       |
|    |   | 2 x USB Ports               |   | ▲       | ●(+1)   | ●       |
| 11 | Key light mode on the key pad   |                             |   | ●       | ●       | ●       |
| 12 | Set SMD pitch (4~80mm with 20steps)   |                             |   | ●       | ●       | ●▲2mm~  |
| 13 | Automatic alignment mode  |                             |   | ●       | ●       | ●       |
| 14 | Automatic power sleep mode. (20min)   |                             | ●   | ●       | ●       | 60min   |
| 15 | Adjust beep sound   |                             | ●   | ●       | ●       | ●       |
| 16 | Adjust LCD contrast   |                             |   | ●       | ●       | ●       |
| 17 | Anti-static connector   |                             | ●   | ●       | ●       | ●       |
| 18 | Rechargeable battery  |                             | ▲   | ▲       | ▲       | ▲       |
| 19 | 110~220V 50/60Hz Free Power Voltage   |                             | DC 6V   | ●       | ●       | ●       |
| 20 | Standard Accessory  |                             | 1) AC power cable<br>3) Crank Handle(Manual type)<br>5) Operating Manual or USB<br>2) DC Adapter (only Mega)<br>4) Hexagon Wrench |         |         |         |
| 21 | Option  | 1. Dot Printer (label)      | ▲   | ▲       | ▲       | ▲       |
|    |   | 2. Barcode Printer          |   | ▲       | ▲       | ▲       |
|    |   | 3. Barcode Scanner          |   | ▲       | ▲       | ▲       |
|    |   | 4. Data Link Adapter        | ▲   | ▲       | ▲       | ▲       |
| 22 | Net Weight (kg)   |                             | 5.0 kg  | 8.8 kg  | 9.0 kg  | 8.0 kg  |
| 23 | Weight for carton box (kg)  |                             | 7.0 kg  | 11.3 kg | 11.3 kg | 11.0 kg |
| 24 | Dimensions ( W x D x H,mm)  |                             | Mega 800 x 240 x 130<br>Magic E 800 x 270 x 130<br>Giga / Giga S 450 x 300 x 200  |         |         |         |
| 25 | Dimensions for carton box ( W x D x H ,mm)  |                             | Mega, Magic E 830 x 300 x 150<br>Giga, Giga S 450 x 360 x 280   |         |         |         |

\*Specification and features are subjects to change without notice.



## LIMITED WARRANTY

### WARRANTY CARD

Thank you very much for your purchasing.

This product has been produced throughout our tough-controlled quality management and inspection processes. Should have any defective symptom occurring during normal use, free repair shall be made according to the limited warranty policy as listed below.

|                |                      |       |         |
|----------------|----------------------|-------|---------|
| NAME           |                      | TEL.  |         |
| PRODUCT        | 3 in 1 Parts Counter | MODEL | Magic e |
| ADDRESS        |                      |       |         |
| DATE PURCHASED | 202 /                |       |         |

#### IMPORTANT

1. If any function is out of order under normal usage, free repair shall be made within 1 year from the date of purchase.

Our warranty does not cover the other accessories for the product  
(ex. Rechargeable Battery, LCD display, Motors and so on.)

2. Though free warranty period is for 1 year, manufacturer shall not be responsible for the following conditions and it will be charged to customer for its repair.

- A. Malfunction caused by improper or careless operation.
- B. Malfunction or damage caused by personal repair or modification.
- C. Malfunction or damage caused by natural disaster such as fire, wind, earthquake or thunderstorm and outside environment such as pollution, sea wind or improper power voltages.
- D. Malfunction or damage caused by product relocation on purpose or bad transportation.
- E. Part replacement (other than original parts suggested by manufacturer)
- F. Misplacement of content edition of this limited warranty card.

3. Some amount of money shall be imposed after expiration of 1 year free warranty period.

4. Please keep this warranty card carefully, as it cannot be reissued.

To activate this warranty, return the completed card with a copy of your receipt by fax or mail to:

Activator Methods International

Attention : Customer Service\_NamA Electronic Industry

#518, Twin tower, 130, Eutteum-ro, Deogyang-gu, Goyang-si, Gyeonggi-do 10544 Republic of Korea

Phone : +82 2 3141 2111

Fax : +82 2 3141 8890

E-mail : info@namaSMT.com

## NamA Electronic Industry

