

# Introduction to RPM User Manual

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# Introduction

Please read carefully install manual before set up machine.  
Do not unsealing someone without completion study machine, please  
setup machine acceptance staff  
Be careful hazard risk

# Introduction

## Precaution Mark



### Watch out for hands

Do not place your hands to sealer and cutting area to prevent any injury.



### High temperature warning

Sealer is operated in extremely hot temperature. Please be careful.



### Electrocution warning

There is a chance of electrocution. Please be caution.



# Introduction

## Precaution before installation

### ◆ Step1. Select location

1) keep up rang another equipment

Rear pen which rear side machine must keep up 20cm range wall or something because of change of air

2) Please avoid heat and humidity

due to heat and humidity change medicine discolor and deformation

Avoid from sink unit and heat unit, because of inside machine accuracy electric component

### ◆ Step2. Settle Level

1) Please using caster lever settle level, when ground irregular

2) not settle level accuracy, occur to hazard door sink and draw hook

3) Turn right caster lever, go up machine base

### ◆ Step 3. Earth

1) Exist earth terminal

Using AC220V receptacle earth terminal, don't need earth

2) Do not exist earth terminal

Using AC220V receptacle without earth terminal, internal machine earth lead line to ground earth

3) no where to earth

don't have earth duo to humidity and static, you must install circuit breaker

(4) please check before set up machine internal power AC220V or AC110V and online power

(5) RPM using internal Data communication by LAN(801.11)

Please check space LAN Cable connection



# Specifications

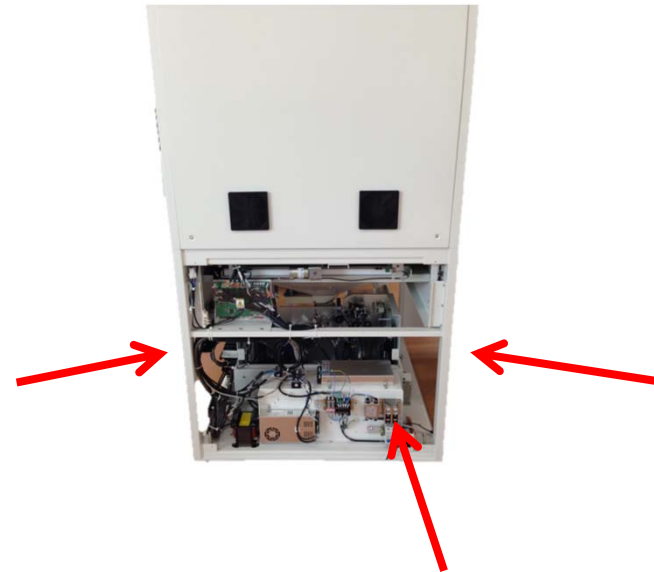
- ◆ **Model : RPM-A432**
- ◆ **Basic Specification**
  - Cassette Capacity 432**
  - Packaging Speed Maximum 70 packing / minute**
  - Display & Input Method Touch screen PC**
  - Power Supply AC220V(230V, 110V, 100V), 50/60Hz**
  - Power Consumption 850W, 1000VA**
  - Weight RPM-A432 (About 850 Kg)**
  - Outside Dimension (W X D X H)mm 840(W) X 1030(D) X 2100(H)**
- ◆ **Specification**
  - Control System Touch screen PC(Ultra mobile PC control)**
  - Control System Window Standard 7**
  - Pollution Category 2**
  - Overvoltage Category II**
  - Operating Temperature 10°C ~ 40°C (Centigrade)**
  - Operating Humidity 10% ~ 80%**
  - Altitude Up to 2,000m**
  - Class of Equipment I**
- ◆ **Main Printer**
  - Printer Specification Printer Method: Thermal Printer**
  - Printer Course: Line Direction**
  - Character Specification**
    - Graphic support windows**
    - All character & bar cord of possible line printing**
  - Mechanical Specification**
    - Rated Voltage : DC24V**
    - Rated Power : 50W**
    - Printer Type : Thermal Type**

# Installation Guide

## ◆ Unlocking the Lower Unit (1/2)



Remove the panels for easier access. Each panels have 4 screws.



It is recommended to remove three bottom panels (Left, Right, Back).

# Installation Guide

## ◆ Unlocking the Lower Unit (2/2)



There are two brackets that are holding the lower unit. Location is shown above

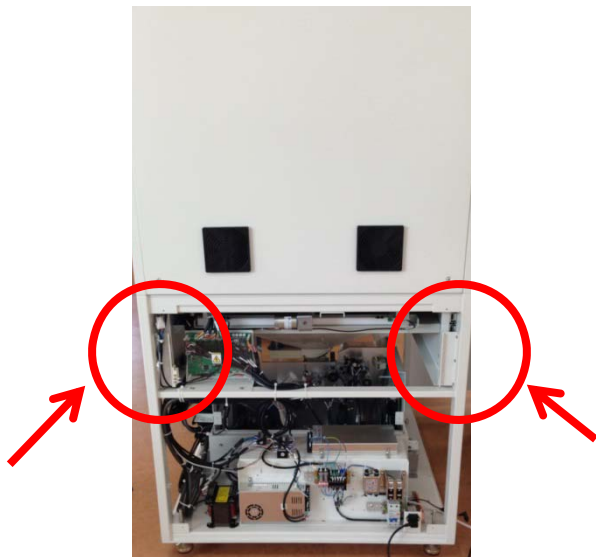


Remove the two screws that are holding the bracket to remove it

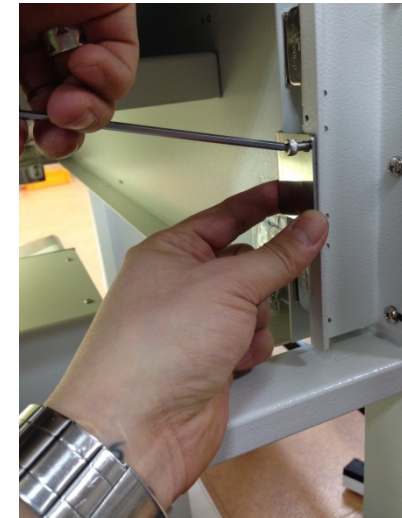


# Installation Guide

## ◆ Unlocking the Middle Unit (1/2)



There are two brackets on each side that hold the middle unit. Location is shown above



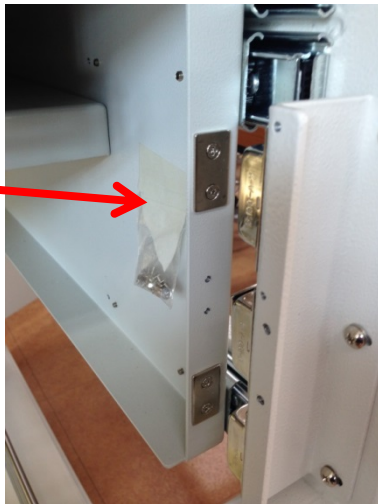
Remove the two screws that are holding the bracket to remove it. Do it on both sides

# Installation Guide

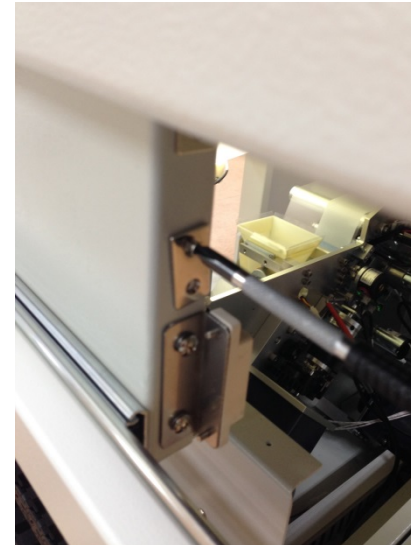
## ◆ Unlocking the Middle Unit (2/2)

Zip lock bag containing:

- Magnet pieces
- Screws to install



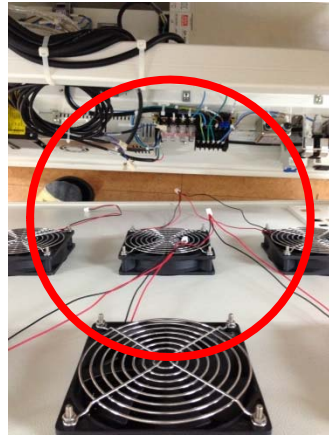
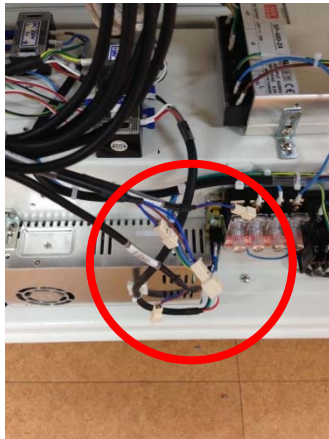
Once the bracket is removed, the middle unit is free from the machine frames. As shown above, due to the placement of the locking bracket, a magnet piece is missing



Find the magnet piece inside the zip lock bag and install them.

# Installation Guide

## ◆ Turning the machine on



Circuit  
Breaker

Power Plug



Emergency Switch

Re-install the panels. The back panel has fans mounted on them and cables need to be connected before installation

Plug power chord and make sure circuit breaker is up. When ready, twist the emergency switch to disable it and turn the key to activate RPM

# Installation Guide Upper Unit

## ◆ About Upper Unit

- Upper unit mainly consist of cassettes which contain designated medication
- The drawers slide out for user to install and remove desired cassettes
- The LEDs on the front of every drawer display the medication name that each drawer contains



**LED Screen** : displays medication name

**Cassette Drawers** : Each cassette drawers can hold 24 cassettes (12 on one side)

# Installation Guide Upper Unit

## ◆ About Upper Unit

### ◆ Cassettes

- Cassettes dispense medication to bottom unit
- Each Cassette is made for a specific drug.
- If size of medication changes, cassette will not work properly

### ◆ Cassette Base

- Cassette Bases hold the Cassettes
- Responsible for turning the drums inside the Cassettes to dispense correct quantity
- Flexible
  - The base changes according to the installed Cassette. There are two flexible bases located on every section
- Fixed

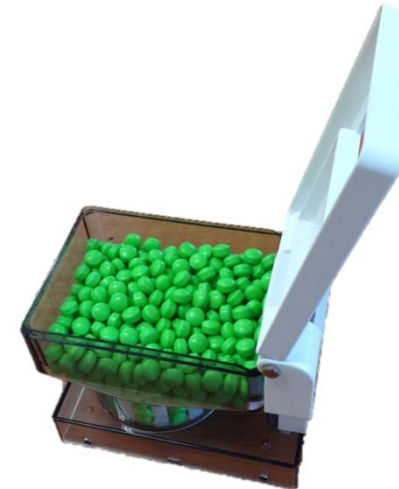


# Installation Guide Upper Unit

## ◆ How to install/remove Cassettes



**Install the back first for easier installation. Do the reverse process to remove**



**The top cover of the Cassette opens up in a hinge motion**



# Installation Guide Middle Unit

## ◆ About Middle Unit

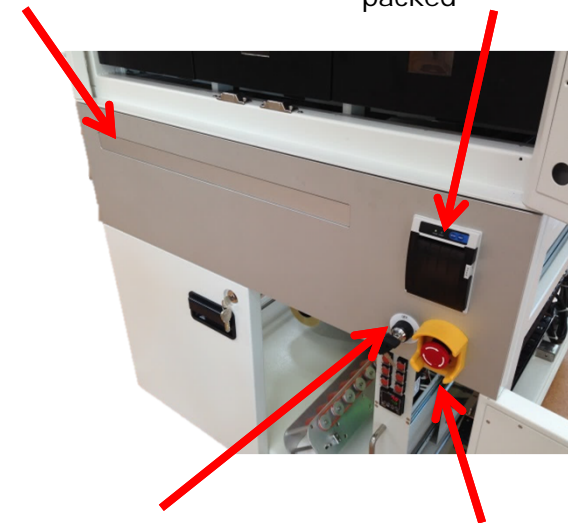
### ◆ MDC (Manual Dispensing Cell)

- For non-Cassette items, user can use MDC to repack medication
- Using MDC requires user to manually fill the tray
- For more information on using the MDC, please refer to RPMS Manual and RPMC Manual



**MDC :** tray opens when needed for user to manually fill each cell with medication

**Receipt Printer :** prints the prescription (order) information for user to check what is being dispensed and packed



**Power Key:** For security purposes, key is needed to turn on the machine

**Emergency Switch:** In case of emergency, pressing this button will cut off all the power

# Installation Guide Middle Unit

## ◆ How to change receipt paper



Open the printer by pressing "Open". Install a replacement roll

Manually feed the paper over the black cover and close the printer. Press "Feed" to check if replacement roll is installed correctly

Once confirmed, press "Cutter" to finish

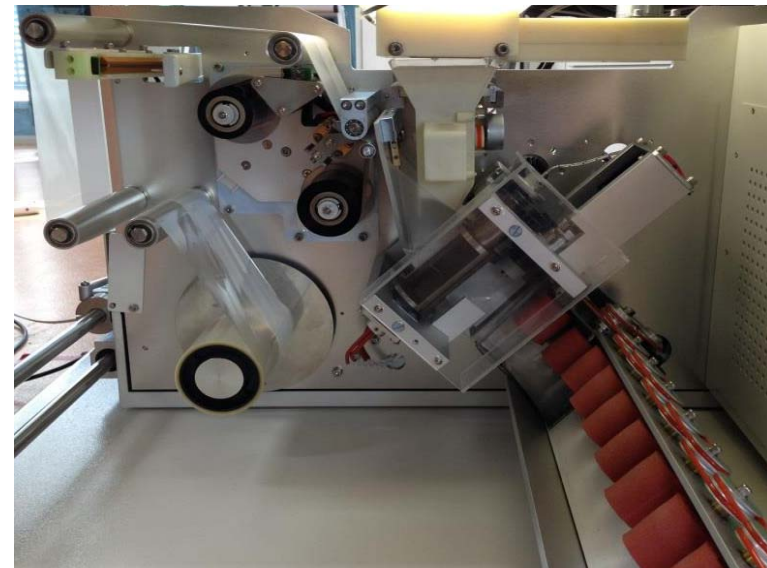


# Installation Guide

## Lower Unit

### ◆ About Lower Unit

- Main job for lower unit is to pack medication and print
- Two consumables
  - Packing paper (cellophane)
  - Print ribbon
- One roll packs approximately 3600 packages



# Installation Guide Lower Unit

## ◆ About Lower Unit

**Instant Sealer :**  
attaches replacement roll  
with the previous roll

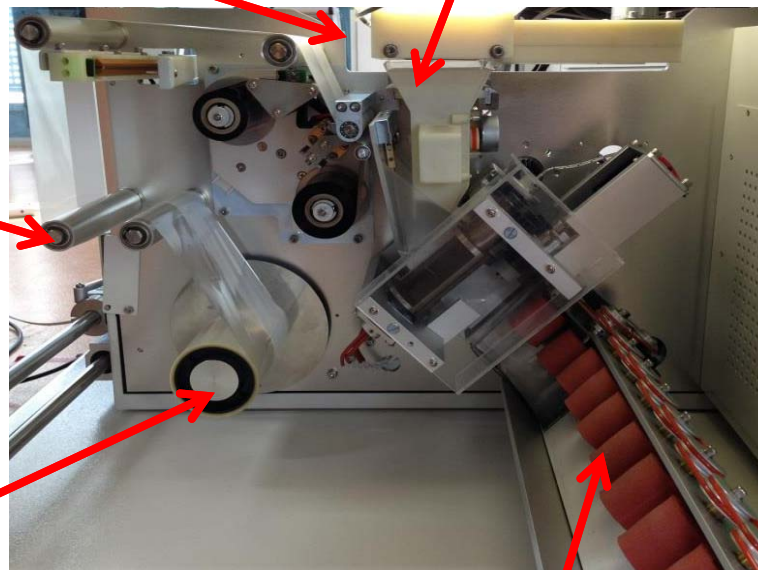
**Last Shutter :** stops  
medication for the last time  
before packaging

**Print Shaft (following) :**  
feeds the print ribbon.  
Unused part is rolled up  
here

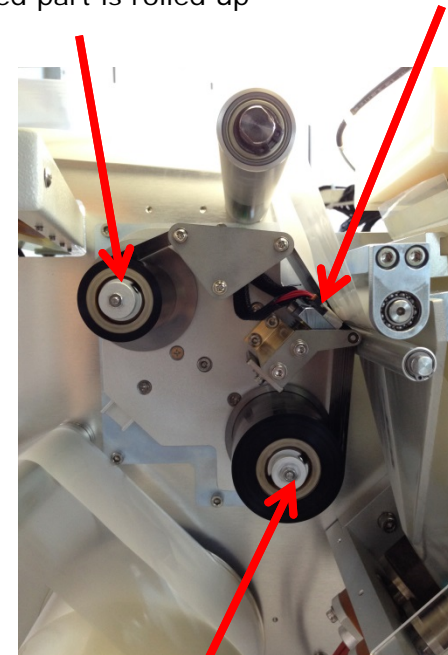
**Print head :** gives  
heat to the ribbon to  
print on the pack

**Paper Roller :**  
guides the packing  
paper

**Cellophane  
(Packing) Paper  
Mount :** rotates  
and feeds only the  
calculated amount  
paper



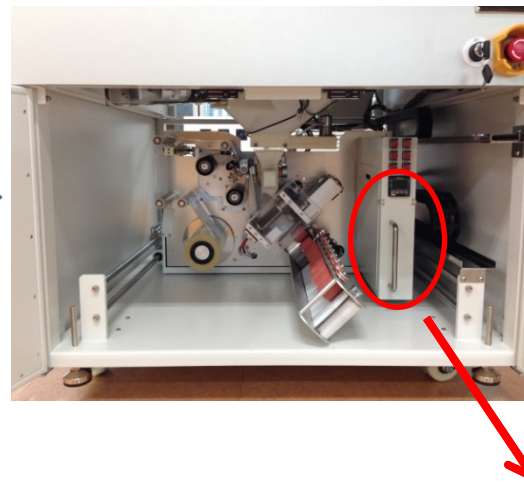
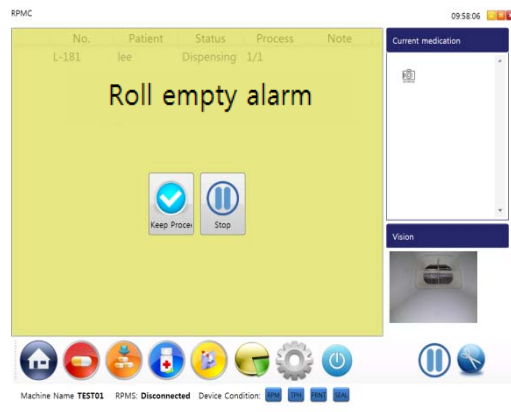
**Conveyor :** brings strips of  
repacked medication out



**Print Shaft (driving) :**  
Pulls the print ribbon. Used  
part is rolled up here.

# Installation Guide Lower Unit

## ◆ How to change packing paper (1/3)



Once the packing paper runs out, machine will stop with an alarm message on RPMC

Pull the lower unit out by using the handle. **Do not use the conveyor to pull the unit out**

The paper is free from the barrel. Pull the barrel to remove.

# Installation Guide Lower Unit

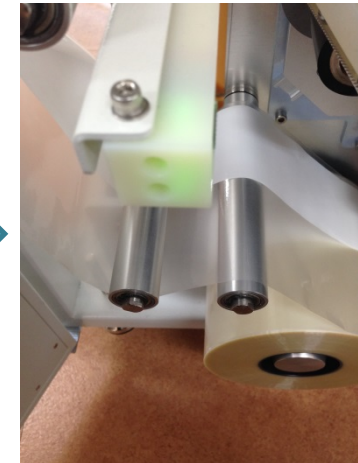
## ◆ How to change packing paper (2/3)



Lock the lower unit by using the device shown above which is located on the left of the lower unit



Insert new roll to the mount. Paper barrel has grooves on the inside for the mount's ball catcher to go through



Feed the paper to the instant sealer. See page 20 to correctly feed the paper



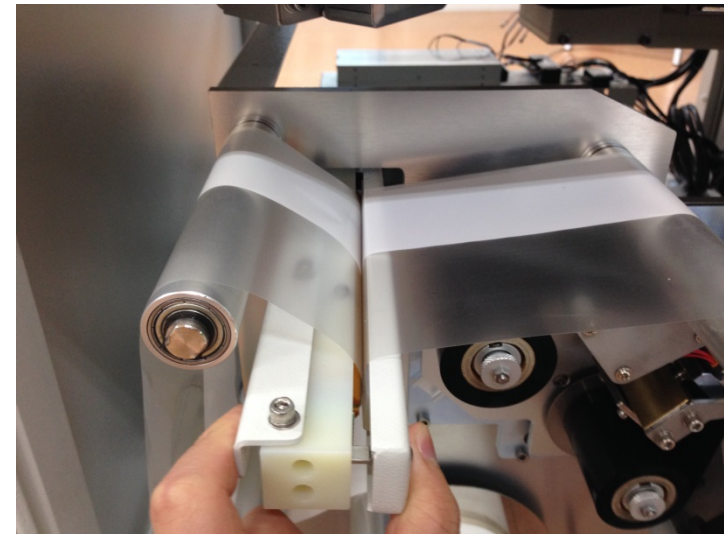
# Installation Guide Lower Unit

## ◆ How to change packing paper (3/3)



Newly Installed  
Paper

Previous  
Paper

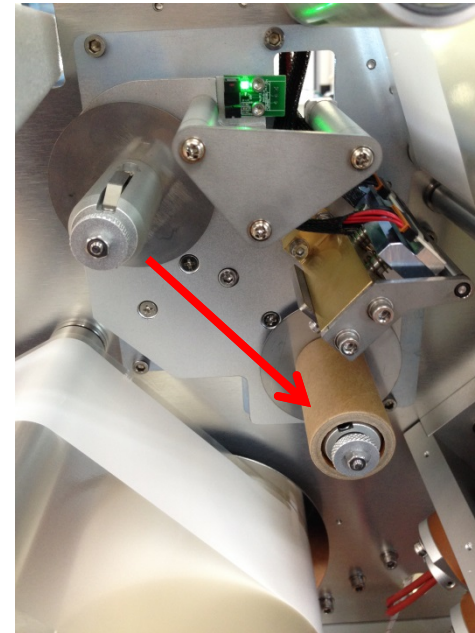
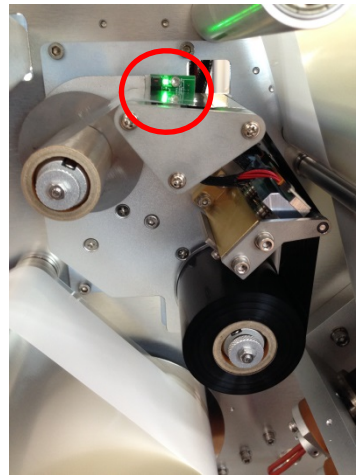


Place the previous paper and new paper  
through the instant sealer.

Hold the instant sealer for 5 seconds to attach.  
While holding, remove the excess by pulling  
towards the right. To finish, press forward until  
the connected parts are out of the machine

# Installation Guide Lower Unit

## ◆ How to change print ribbon (1/2)

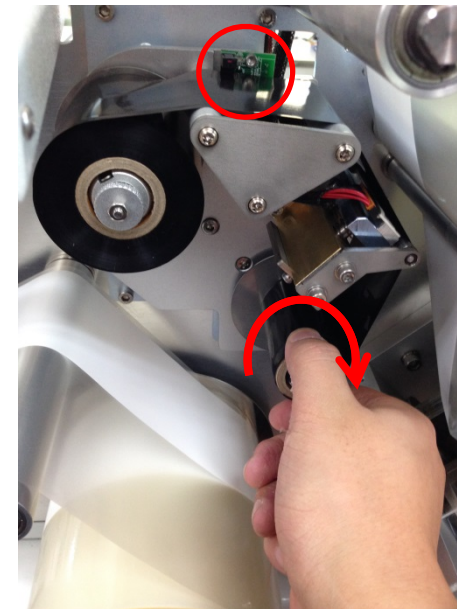
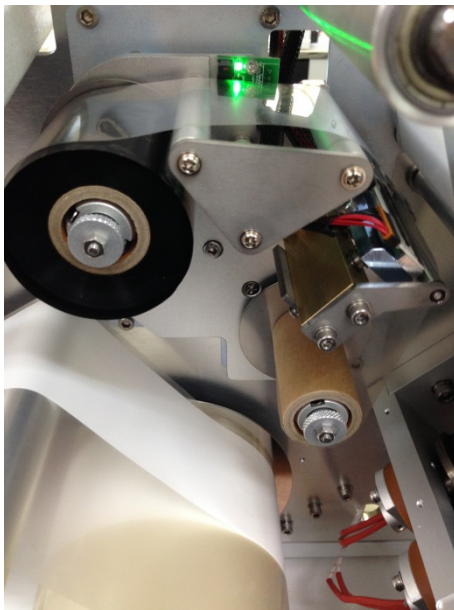


When paper ribbon runs out, machine will stop with an alarm message on RPM. Green light on the sensor will turn on.

Trash the used roll on the driving shaft but save the empty cardboard on the following shaft. Install the saved cardboard to the driving shaft

# Installation Guide Lower Unit

## ◆ How to change print ribbon (2/2)

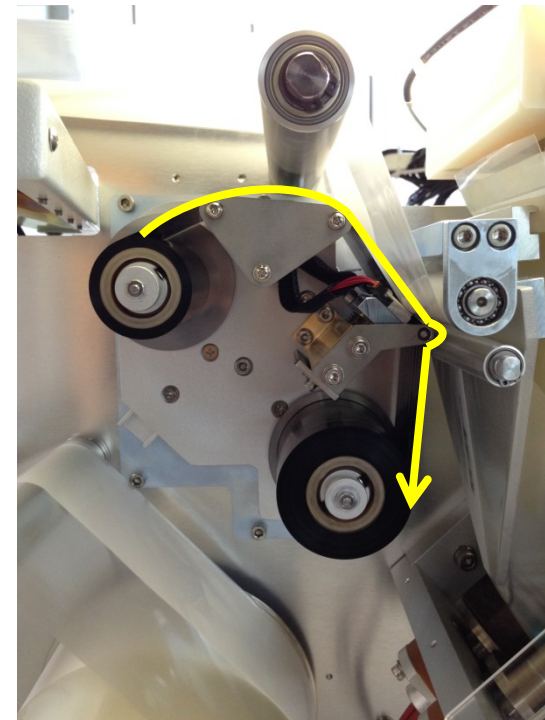
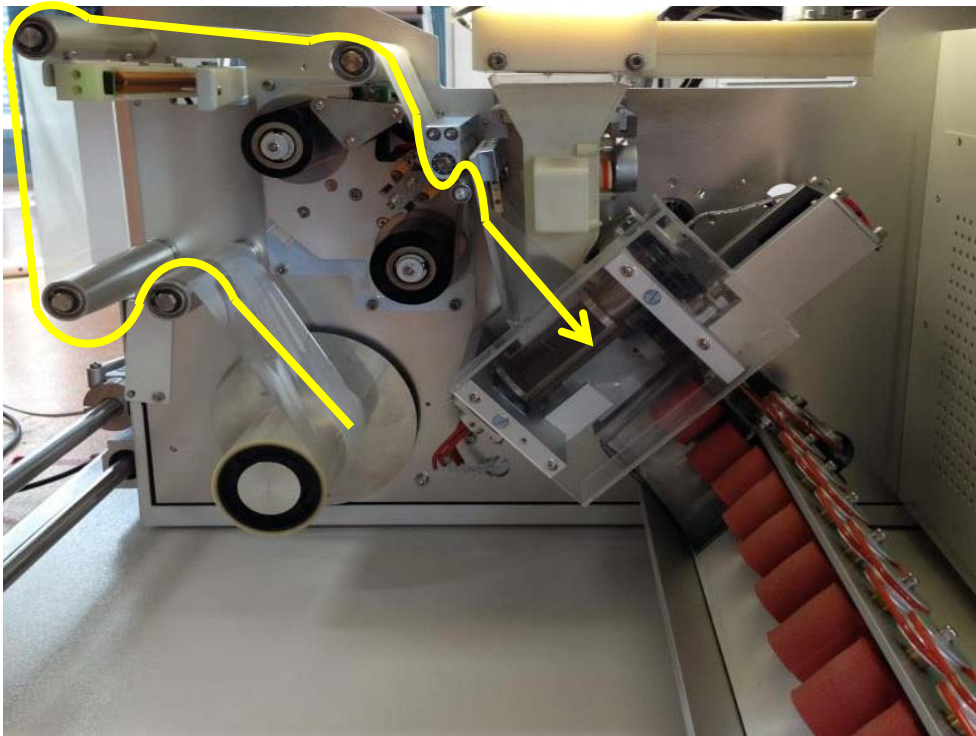


Install a new print ribbon. Then attach the end of it to the cardboard on the driving shaft. See page 20 to install correctly

Turn the driving shaft until the sensor senses the ribbon and turns off the green light

# Installation Guide Lower Unit

## ◆ Paper/Print Ribbon Diagram





# Installation Guide

## ◆ Supply Power

**Follow picture electric power plug connect receptacle.**

Notice: Using standard power plug.

Using receptacle must be isolate earth.

Receptacle do not earth, electric board malfunction and make sure hazard risk.

## ◆ Connect LAN cable

**Follow picture rear side machine LAN port to connect HUB (Direct cable).**

## ◆ Power Up the RPM System

### ◆ System Function Check

- Seal Function
- Cut Function
- Cartridge Function
- MDC Function

## ◆ The RPMS Server have to send the prescription to RPMC Machine

# Information for the user

**NOTE:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Portable equipment: Equipment for which the spaces between human body and antenna are used within 20cm.

Mobile equipment: Equipment used at position in which the spaces between human body and antenna exceeded 20cm.

**Notice:** This device complies with Part15 of the FCC Rules. Operation is subject to the following two condition: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## **FCC WARNING**

Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65. This equipment has very low levels or RF energy that are deemed to comply without testing of specific absorption ratio (SAR)





Health care, Human care, Happy care

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