

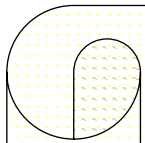
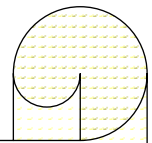
# COM<sup>®</sup> BBE-180 BBE-200

DESKTOP TYPE AUTOMATIC TAPING MACHINE

## *INSTRUCTION MANUAL*



TAIYO SEIKI CO., LTD.



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# 1. SAFETY INSTRUCTIONS

## For your safety

Before starting machine operations, read this manual carefully and understand the descriptions completely.

## Care to be taken

1. Make sure the power supply is correct.  
Voltage fluctuation must be as little as possible.
2. Operations in high temperature, high humidity or unstable ambient conditions are not allowed.  
(Tape jamming will be caused under such conditions.)
3. Clean the machine weekly. Especially the area around rollers is important.
4. Overhauling or modification, if required, must be approved every time by us in a written form.
5. Never try to touch the heater when the power switch is turned on or before cooling down after switching off (still hot within 10 minutes).
6. Do not fail to turn the power switch off when finishing operations.

## 2. INTRODUCTION

### **Compact Automatic Taping Machine**

The COM BBE series feature a compact design and easy operations so that speedy banding of workpieces can be processed.

The COM BBE series uses a unique mechanism for forming the tape loop. There is no working assemblies above the table. The COM tape feeding mechanism is so unique and accurate that trouble-free operations are assured.

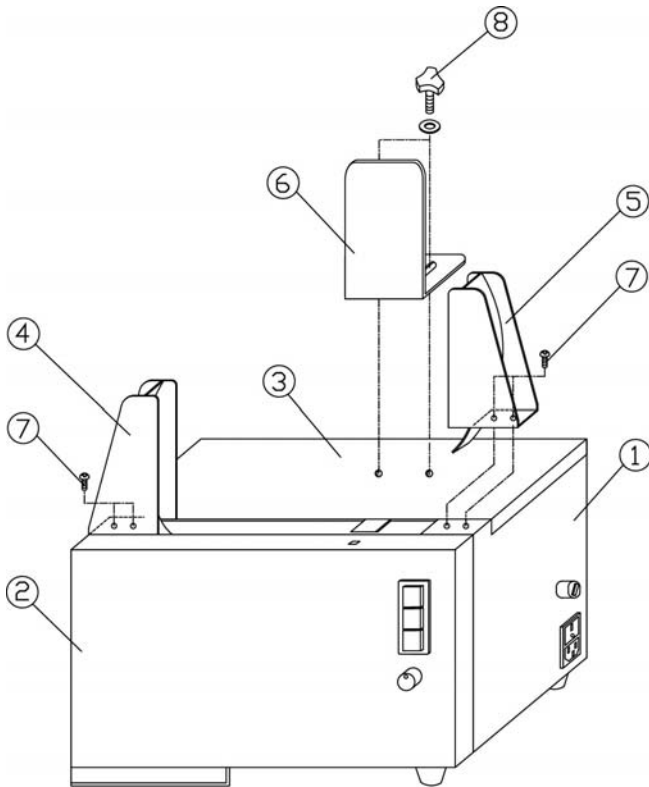
Read this manual carefully so that you can reach the high efficiency of daily operations.

### 3. CONTENTS IN EACH CARTON

Check to find the following products

1. Machine body .....1
2. Tape guide left and right .....1 each
3. Stainless steel attachment (for workpiece position setting) .....1 pce.
4. Knob bolt .....2 pcs.
5. Spare fuse .....1 pce.
6. Power cable .....1 pce.

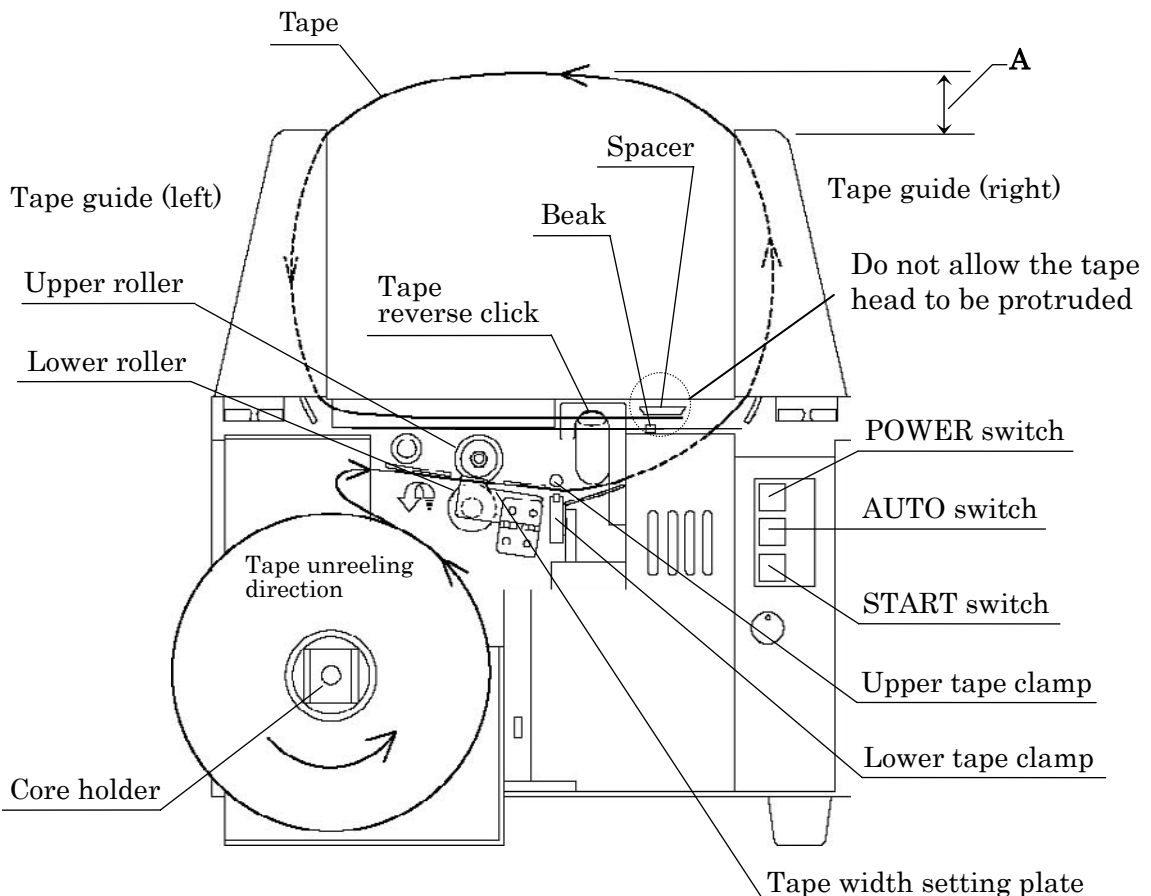
### 4. SKETCH DRAWING



- (1) Machine body
- (2) Front panel
- (3) Rear table
- (4) Tape guide left
- (5) Tape guide right
- (6) Attachment
- (7) Guide screw (M4)
- (8) Knob bolt

## 5. TAPE FEEDING

1. Open the front panel.  
The START lamp will flicker if the main power switch has been turned on.  
Put a tape reel on to the core holder.  
Make sure the unreeling direction is correct.
2. Grip the tape head, pull the width setting plate toward you, feed the tape between the upper and the lower rollers, feeding it further between the upper and the lower tape clamps. Pull out the tape about 60 cm.  
Reset the tape width setting plate.
3. Make a loop between the both guides (left and right).  
Insert the tape head between the spacer and the beak.  
Do not allow the tape head to be protruded from the right edge of the spacer.  
The top of the loop should come to a position a little higher than the guide top face.  
(Refer to "A" indicated in the sketch shown below.)
4. Shut the front panel and press the POWER switch.  
(When power is already supplied, the START lamp will be switched off.)



## 6. OPERATING INSTRUCTIONS

Make sure the tape has been fed into the machine.

### **PREPARATION**

Connect the power cable to the power plug socket (with switch) on the right hand side panel. Turn this switch on.

Press the POWER switch on the front panel. The power lamp will start to flicker. When flickering of this lamp is changed to lighting up in about 60 seconds, the machine is ready to run.

### **MANUAL mode**

Keeping a loop already formed on the machine, put a workpiece in position.

Use the attachments to determine the banding position.

Press the START switch.

The workpiece will be banded, the tape is sealed, cutting it at the same time.

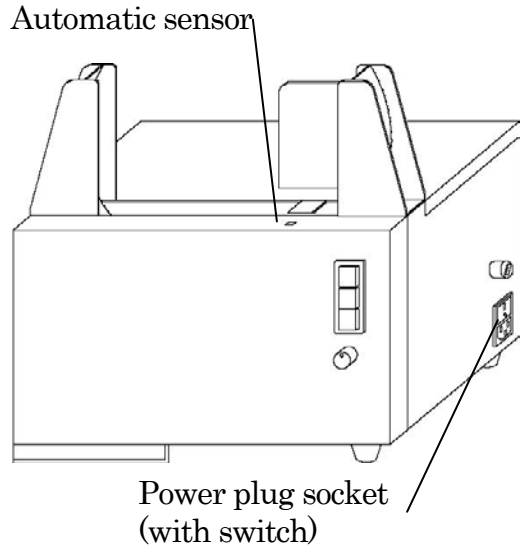
Remove this finished workpiece. Then the next loop will be formed automatically, so that banding operation can be cycled in this way.

### **AUTO mode**

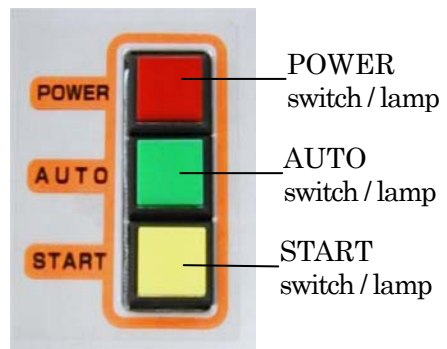
Making sure that a loop is ready and the banding position is correct (attachments have been set to meet the banding position of the workpiece), put a workpiece in position.

The sensor detects this workpiece so that banding can be finished automatically. Banding can be cycled in this way without controlling the START switch.

\* Do not fail to turn the power switch off when finishing operations.



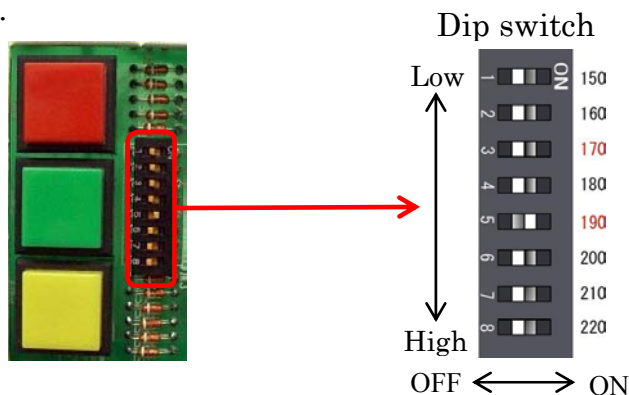
### Control switch



## 7. SEALING TEMPERATURE ADJUSTMENT

Depending on the ambient condition and the tape material, the temperature level on the heater place which seal the tape will change. In this case the heater temperature should be adjusted to the optimum level.

For this adjustment, open the front panel. Select a dip switch and set to the ON position.

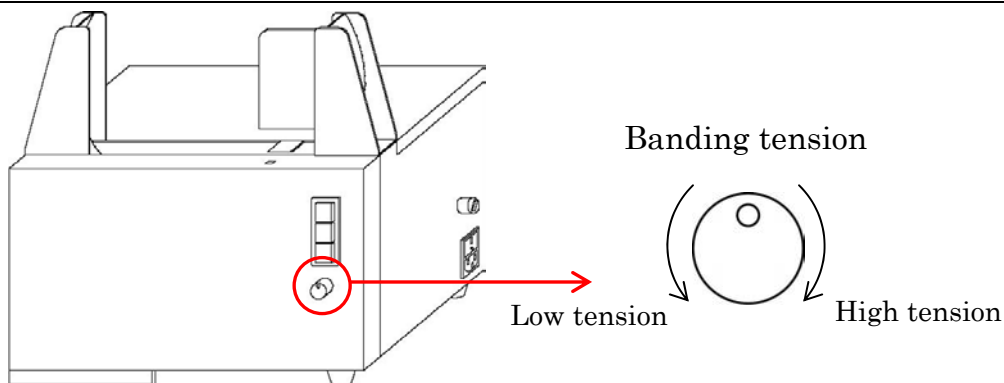


Factory preset point  
for paper tape No.5 to ON (190 deg. C)  
for film tape No.3 to ON (170 deg. C)

In case of a heater temperature error, the AUTO lamp will flicker, stopping the machine run automatically.

Error: when heater surface temperature rises over 350 deg. C  
when temperature sensor wiring is damaged

## 8. BANDING TENSION ADJUSTMENT



Turn the TENSIONING knob to adjust banding tension.

When banding flexible packs:

Flexible packs will cause incomplete sealing due to the resiliency of such packs. In this case, hold the workpiece in position until the tape is sealed and cut.

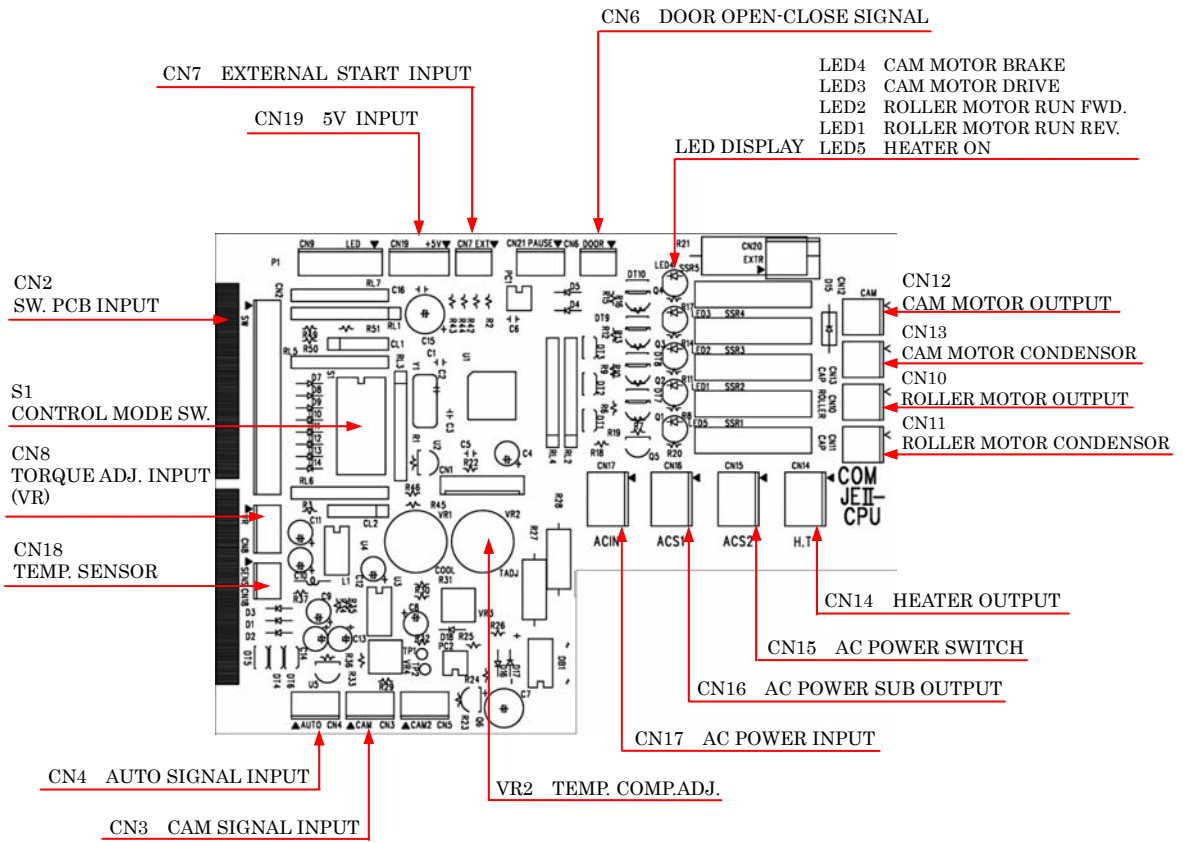
## 9. SPECIFICATIONS

Speed	23 cycles/minute
Capacity	BBE-180      W180 x H170 (mm) (max.) W35 x H5 (mm) (min.) BBE-200      W200 x H170 (mm)(max.) W35 x H5 (mm) (min.)
Power supply	AC 220/230 V 50/60 Hz 1.6 A AC 110/115 V 50/60 Hz 3 A
Power consumption	150W
Withstand voltage	AC 1500V (1 minute between AC inlet and machine body)
Noise level	65 db. (70 db. max.)
Ambient conditions	Room temp. 0 - 30 deg. C Humidity 85% RH max.
Heater type	Plate type, (about 60 sec. to reach preset temperature level.)
Machine dimension	W324 x D240 x H210 (mm) (approx.)
Machine weight	19 kg (approx.)

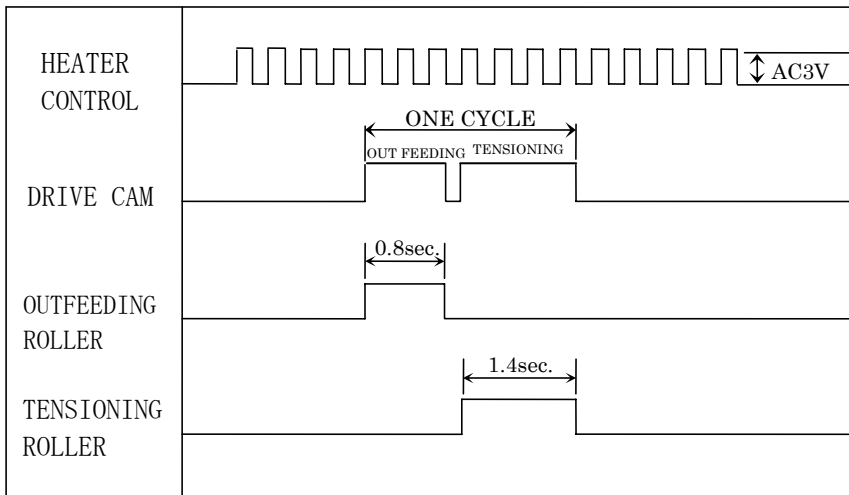
**NOTE:**

For best performance and prevention of failures, use COM tapes only.

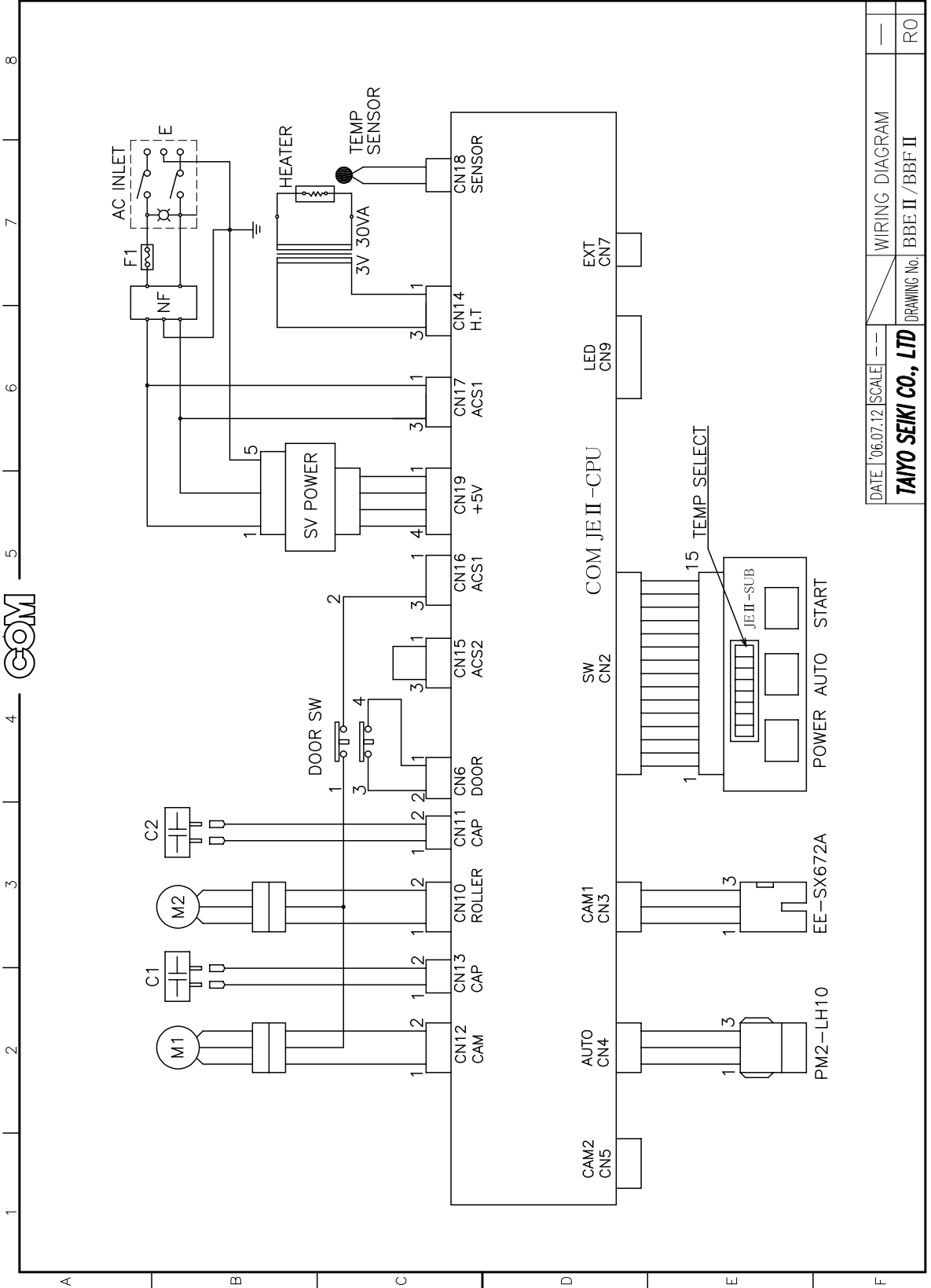
# 10. SCHEMATIC DRAWING OF PRINTED CIRCUIT BOARD, CONNECTOR AND CONTROL



# 11. TIMING CHART



# 12. CONNECTION DIAGRAM



DATE '06.07.12	SCALE --	WIRING DIAGRAM
TAYO SEIKI CO., LTD		DRAWING No. BBE II /BBF II
		RO

## 13. IMPORTANT SAFETY NOTICE

**WARNING :** To prevent damage which may result in fire or shock hazard, do not expose this machine to rain or moisture.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

**CAUTION :** TO REDUCE THE RISK OF ELECTRIC SHOCK,  
DO NOT REMOVE COVER (OR BACK) .  
NO USER-SERVICEABLE PARTS INSIDE.  
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions.

## 14. PRECAUTIONS FOR USE AND INSTALLATION

- Do not touch internal parts.  
Be sure not to touch the internal parts. That will be cause of accident.
- Should you notice any trouble.  
If any trouble occurs while you are using the machine, turn off the machine and contact your dealer.  
If you continue to use the machine when there is something wrong with it, the trouble may become much worse.



Ensure that you plug the power cable supplied into a socket which is grounded.  
In the absence of grounding, a technical fault could be lethal.

Switch the machine off and disconnect the power cable if you change blown fuses.  
An electric shock could be lethal.



Check the operating voltage before you switch on the machine.  
The machine will be damaged if the operating voltage does not match the line voltage.

Use only fuses of the specified type if you need to change them.



Do not touch this part while operating the machine.  
The moving mechanism may cause injury and / or damage on your hand or fingers.

Before carrying out service and maintenance on the inside mechanism, be sure to disconnect the power cord plug from the machine body.



Heat generating unit is inside, its high temperature could cause a burn and / or injury.

If you need to carry out service on the heater unit, do not touch the unit for about 10 minutes after switch off the power supply.



Install the machine on a horizontal stable position where it has a sufficient strength for supporting the machine weight.

All service and maintenance work should only be carried by a qualified service personnel.



## **WARRANTY**

Taiyo Seiki Co., Ltd. warrants its product to be free from defects in material and workmanship for a period of six months from date of shipping invoice, provided Taiyo Seiki Co., Ltd. sizes or approves application of the product.

Within the warranty period, Taiyo Seiki Co., Ltd. will repair or replace such products which are returned to it with shipping charges prepaid and which are disclosed as defective upon examination, by Taiyo Seiki Co., Ltd.

This warranty will not apply to any product which has been subject to misuse, negligence or accident, or use not in accordance with the Taiyo Seiki Co., Ltd.'s instruction or authorized agent or employees of Taiyo Seiki Co., Ltd.

The provisions of the warranty are the sole obligations of Taiyo Seiki Co., Ltd., and exclude all other warranties expressed or implied, including any warranties of merchantability. There are no warranties which extend beyond this warranty.

Taiyo Seiki Co., Ltd. shall not be liable for any consequential damages, either in law or in equity, or for losses or expenses or claims for the same arising from the use of, or inability to use, the products of Taiyo Seiki Co., Ltd. for any purpose whatsoever.

Warranty becomes void if any alteration or deletion is made on any product of Taiyo Seiki Co., Ltd. name, trademark, patent and or serial numbers.

Taiyo Seiki's continuing commitment to product improvements make specifications subject to change without notice.

This warranty is governed by the laws of Japan.

The logo consists of the letters 'COM' in a bold, orange, sans-serif font. The 'O' is a solid circle. A registered trademark symbol (®) is located to the upper right of the 'M'.

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