

# Operating Manual

## NEW KON ELECTRIC PERFORATORS Models 112-905 • 112-905L • 112-605 • 112-705

Final 04.18.2018



**MODEL: 112-905 / 112-905L**



**Pin Type  
905**



**Die-Block**

**Lever Type  
905L**



**605**

**Die-Block**



**705**



**MODEL: 112-605 / 112-705**

◆ Specifications may change without prior notice for ongoing functional improvements. ◆



# ***NEW KON*** INDUSTRIAL CO., LTD.

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# PRECAUTIONS








Please be sure to read these precautions carefully before use.

Thank you for purchasing the **MODEL 112 Perforator**. For safety reasons, prior to operating this machine, please read these precautions and operating manual carefully.







## Caution Notice

To use this machine correctly and in a safe manner, we added notifications to the following sections to further explain important information. Please read the following carefully.

 <b>Caution</b>	This mark  indicates that if instructions are not followed, serious injury and/or equipment damage may result.
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 <b>Caution</b>	
	1. Please be sure to use the electrical plug which is attached. Do not change the plug as it could cause fire or electric shock.
	2. DON'T disassemble or modify the power cord, otherwise, injury or electrical shock may occur.
	3. If any abnormal state such as excessive heat, smoke or a bad smell occurs, IMMEDIATELY switch the main unit OFF and remove the power cord from the outlet. Continuing to use it as is may lead to a fire or electrical shock.
	4. Should any foreign substances (metal, liquid, etc.) get inside the unit, IMMEDIATELY switch the main unit OFF and remove power cord from the outlet. Continuing to use it as is may lead to fire or electrical shock. Have the unit inspected/repaired by your authorized servicing dealer.
	5. DON'T insert or remove a power supply adapter with wet hands as this may lead to an electrical shock.
	6. BE SURE to detach the power cord from the outlet by holding its plug section, NOT the cord itself, otherwise it might cause damage to the cord which could result in fire or electrical shock.












 <b>Caution</b>
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-  1. NEVER put your hands inside the machine as it may lead to bodily injury.
-  2. DON'T perforate materials other than paper as this might damage internal parts.
-  3. DON'T disassemble or modify the unit, otherwise injury or electrical shock may occur.
-  4. BE SURE to detach the power cord from the outlet before relocating the machine.
-  5. KEEP the unit out of children's reach and do not let them operate it, otherwise injury may occur.
-  6. ALWAYS detach the power cord from the outlet if the unit is not to be used for extended periods.

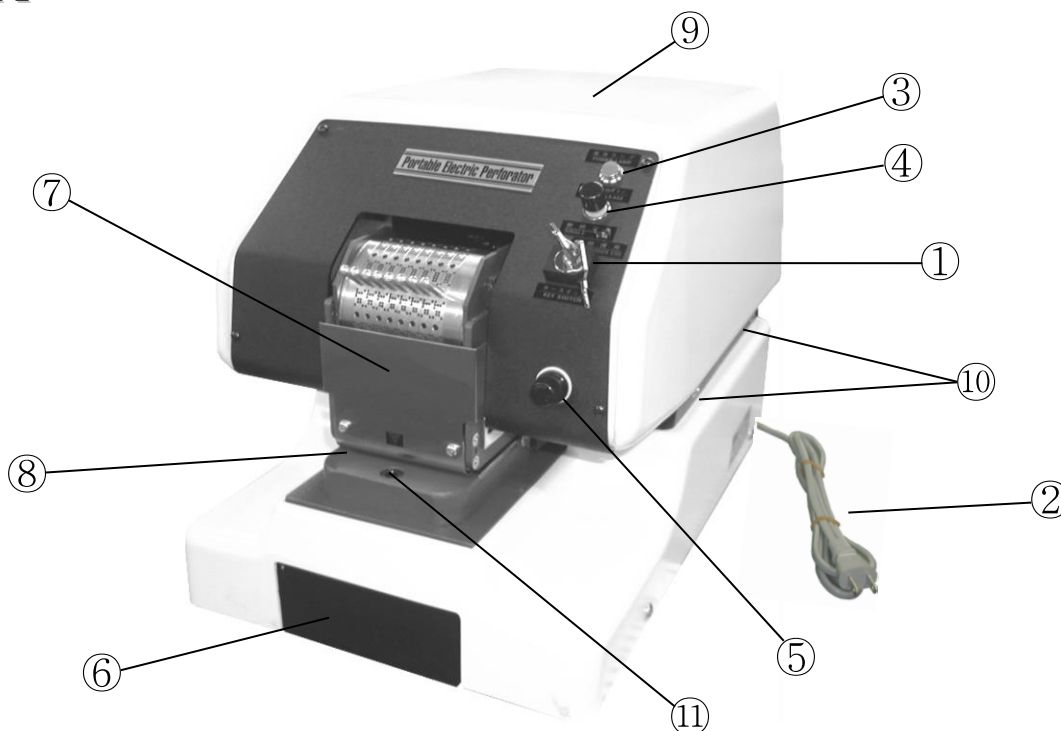
## **Caution**

### **Safety Precautions**

**To ensure safe use of the machine and avoid damage to it, please be sure to observe the following precautions.**

	Keep your fingers and hands away from the die block when perforating, otherwise injury may occur.
	Don't touch moving parts when perforating, otherwise injury may occur.
	Don't pull the paper out while perforating. Wait until perforation cycle is completed.
	DON'T disassemble or modify the unit as it might cause a machine malfunction, possible injury, fire or electric shock etc.
	DON'T perforate materials other than paper such as metals: iron, copper, aluminum, stainless steel, etc. This may result in damage to the die block and void manufacturer warranty.
	DON'T perforate materials which adhere to the paper such as staples, paper clips, adhesive tape, etc. This may result in damage to the die block and void manufacturer warranty.
	DON'T perforate items such as wet paper, adhesion stickers, vinyl, etc. as these could cause paper chips to clog the die block.
	Perforated paper chips will accumulate in waste receptacle with frequent use of the perforator. Empty it at regular intervals. Not emptying the waste will cause the paper particles to build up in the die block.
	Please be sure to remove the plug from the outlet when removing the paper waste.
	DON'T install the machine on an uneven or unstable surface as it could become susceptible to falling off.
	If you must move the machine, please carry it by the bottom of the main body with both hands.

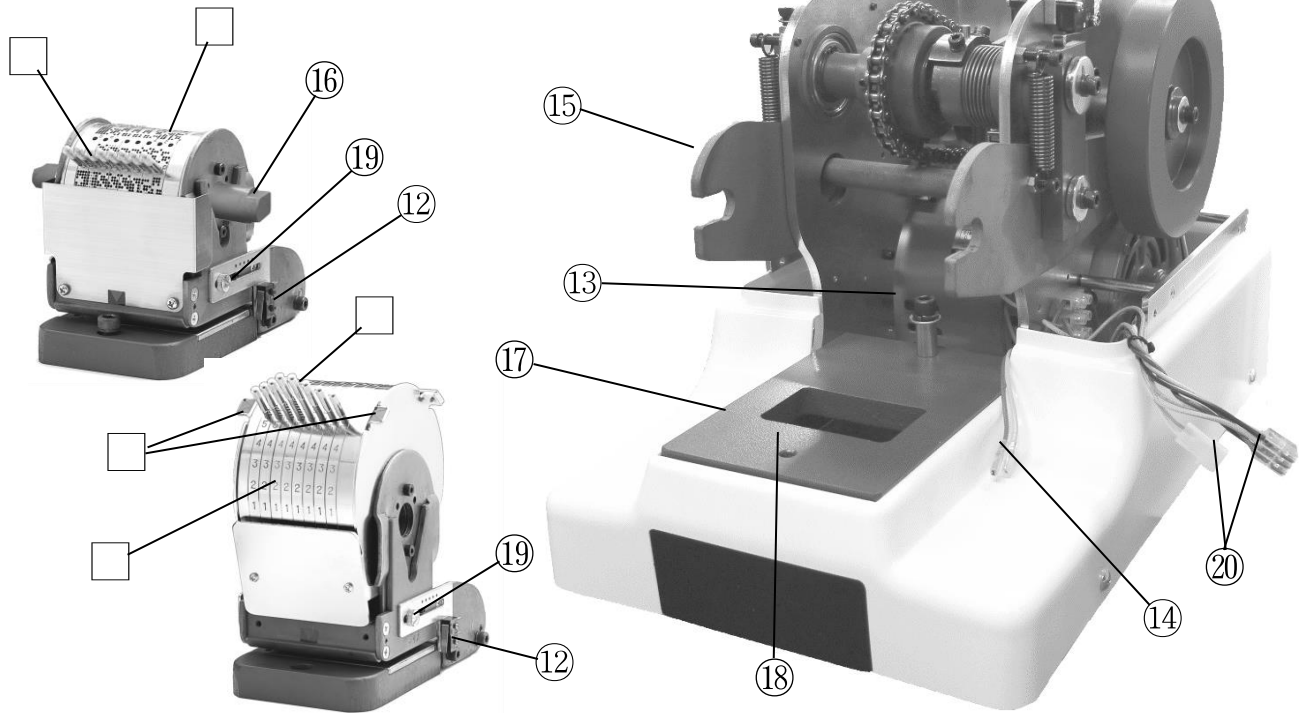
# 1. Appearance



# 2. Part names and accessories

No.	Part Name	Description		
①	Main Switch	The key switch turns on/off the power supply.		
②	Electric cord with plug	Plug unit into a suitable wall outlet.		
③	Power lamp	When the key switch is on, the power lamp will illuminate.		
④	Lock release button	Button to release die when the paper is jammed and machine has stopped.		
⑤	Fuse box	Turns off the power when an excessive electric load is applied to the product.		
⑥	Waste Drawer	Drawer for paper chip storage. Must check and empty it frequently. It is advisable to check and empty drawer daily.		
⑦	Die block	This is the perforation die block.		
⑧	Feed opening	Paper insertion area.		
⑨	Top cover	Please remove the cover when you replace the die block.		
⑩	Truss head screw	Screws for attaching the top cover.		
⑪	Screws for fixing die block	Screws for attaching the die block.		
Accessory bag list	1 each Operating manual	1 each 6mm L shape hexagonal wrench	2 keys	2 fuses; one is for power (15A) and the other is for PCB (1A)

### 3. Operating parts and descriptions



No.	Part Name	Description
⑫	Micro switch	When switch is engaged by the edge of the paper, the machine will activate.
⑬	Bolt for fixing the stand.	Used for setting the die block on the main body.
⑭	Micro switch connector cables	Connectors for attaching micro switch.
⑮	Arm	Holds the die block shaft pin.
⑯	Shaft pin	For inserting into the die block.
⑰	Base	The base for installing the die block.
⑱	Alignment hole for die block	It is the screw hole for aligning the die block.
⑲	Depth gauge	Screw for adjusting the perforation depth.
⑳	Connector for main body cover	Connector to connect with the electrical operation section of the main unit cover.
❶	Wheel	Numbers, letters and/or symbols are engraved. ※Character contents, except the standard date 8 digits and 10 digits, (Varies depending on the customers' requests.)
❷	Pin Select version	Pins that are used to select numbers, letters or logos.
❸	Lever Select version	Levers that are used to select numbers, letters or logos.
❹	Indicator	Used in Lever Select version to note correct position for proper placement of perforation.

## 4. How to operate the die block




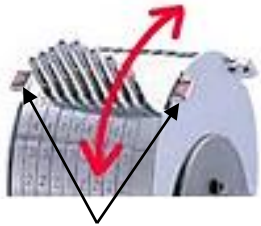




※There are 4 types of die blocks...905, 905L, 605 and 705.

※The maximum capacity is based on 64gs/m<sup>2</sup> paper. Based upon paper thickness, number and diameter of the needles, the specifications may vary. e.g: the capacity may be less than the specified maximum.


※All die blocks are equipped with a micro switch gauge for detecting the paper automatically.

The depth position can be changed by adjusting the depth gauge.

※Inserting the paper: when the edge of the paper engages the micro switch, the machine will start perforating.

No	Name	Die Block Operation	
①	 <p><b>【905】 PIN TYPE</b></p>	<p>■ This is a pin style die block.</p> <p>※ Remove the pin, turn the wheel until you reach the desired position letter and insert the pin.</p> <p><b>Note:</b> please insert the pin securely and check that the wheel is not cycling.</p> <p>If the wheel pin is not inserted securely, it will cause the needle to bend and the corresponding hole in the base plate will be damaged.</p> <p>Take out the pin → turn the wheel → check the wheel pin is inserted surely.</p> <p>(Choose the letter-insert the pin)</p> 	
②	 <p><b>【905L】 LEVER TYPE</b></p>	<p>■ This is a lever type die block.</p> <p>※ Move the lever up or down to choose the desired letter or number</p> <p>※ The letters should match the indicator (red ▼).</p> <p>If the indicator position and lever are matched, the position is correct.</p> <p><b>Note:</b> If the lever is not matched up with the indicator properly, it will cause the needles to bend and the corresponding hole in the base plate will be damaged.</p>  <p>【Indicator】</p>	
③	 <p><b>【605】 FIXED LETTER</b></p>	<p>■ This is the die block for fixed letters.</p> <p>※ Designed at the customer's request.</p> <p>※ It is a fixed die without the function for changing letters or the design.</p> <p>※ If additional design or letters are requested, another die block must be purchased.</p>	<p>【The dimension of the perforating range】 length 20mm × width 52mm</p> 
④	 <p><b>【705】 FIXED LETTER</b></p>	<p>■ This is the die block for fixed letters.</p> <p>※ Designed at the customer's request.</p> <p>※ It is a fixed die without the function for changing letters or the design.</p> <p>※ If additional design or letters are requested, another die block must be purchased.</p>	<p>【The dimension of the perforating range】 length 50mm × width 72mm</p>  <p><b>Note:</b> not including 4corners(6mm×6mm)</p>

## 5. Specifications

Perforator Model	<b>Model 112 Series Electric Perforator</b>			
Die Block Model	905	905L	605	705
Type of Selection Letter	PIN TYPE	LEVER TYPE	FIXED LETTER TYPE	
Types of Perforations	Dating or numbering • 1 <sup>st</sup> line PAID • Custom		Fixed letters or marks (including designed letters, logos, mark)	
Perforating Range	8 digits • 10 digits (needle structure : 4x6 holes)		20 x 52 mm.	50 x 72 mm.
Diameter of Needles	1.0 mm or 1.4 mm			
Perforation Examples	31+12+17 31+12+2017 12345678 1234567890 PAID PAID 31+12+17 31+12+2017			
Perforating Ability	30 sheets ※Dependent upon voltage, paper weight, needle diameter & needle configuration		5-30 sheets. ※Dependent upon voltage, paper weight, needle diameter & needle configuration	
Perforating standard paper	Usual PPC paper (64 g/m <sup>2</sup> )			
Perforating Time	0.5 seconds/perforation (50Hz/ 60Hz)			
Max Insertion Depth ※from edge of paper	Maximum insertion depth: 40 mm			
Power Source	120V AC			
Power Consumption	280W			
Rated Frequency	50/60 Hz			
Current Rating	6A			
Rated Time	30 minutes			
Fuse	15A			
Dimensions (W×D×H)	277mm x 436 mm x 316mm			
Weight (including die block)	40.5 kg	42.5 kg	37.7 kg	38.7 kg



## 6. Operating methods

■ Please read the following precautions carefully before using.

1. Be sure to check and confirm that the power supply and voltage is correct as outlined in specifications.
2. When carrying the product, disconnect from the wall and please be sure to hold the bottom of the machine securely with two or more people (more than one person) and move.
3. Since the perforator is very heavy (more than 30kg), be sure to place it on a solid surface.
4. Perforating capacity is based upon PPC paper (64 g /m<sup>2</sup>).
  - a. The perforating capacity of Die Block No.905 & No.905L is approximately 30 sheets.
  - b. Depending upon voltage, paper weight, needle diameter & needle configuration, it is possible that the maximum of 30 sheets per perforation will not be realized.
  - c. The capacity for Model No.605 and No.705 will be 5-30 sheets depending upon voltage, paper weight, needle diameter & configuration.
5. Die Block Model No.905 (Pin Type)

To change the number or characters, please pull out the select pin and rotate the wheel freely with your finger. When the engraved letter of each numeral, character or mark you wish to perforate is located, insert the select pin into the number or character which is on the wheel. Please be sure that the select pin is inserted into the wheel hole securely, otherwise it may cause the needles to bend and the wheel to possibly sustain damage.
6. Die Block No.905L (Lever Type)

To change the number or character of the wheel, rotate the levers on the wheel up or down to the number or character you wish to perforate. Please be sure to place the lever pin on the fixed position, otherwise it may cause the it may cause the needles to bend and the wheel to possibly sustain damage. Once the lever reaches the fixed position, you will feel it you will feel it lock into place.
7. Please don't perforate any material except for paper.

Examples are as follows: metals (paper clips and staples), cloth products, leather products, seals, resins, etc.
8. Please empty the paper chip storage container on a regular basis as over-accumulation can cause problems by compacting paper chips into the die block.
9. The machine is designed to start the perforation upon paper insertion. If the unit continues to activate on its' own, please disconnect and contact your local servicing dealer for assistance.
10. If paper is jammed in the die block, please disconnect and contact your local servicing dealer for assistance.
11. Please don't perforate in a previously perforated area. Change paper position for each new perforation.
12. Over time and based upon types of materials being perforated, some wear is to be expected. If the paper is not being perforated thoroughly, please contact your local servicing dealer for assistance.
13. If you will not be using the perforator for an extended period, please remove the power plug from the wall.

## 7. Perforating operation

### ■ Precautions before use

- ※ Please be sure to install the perforator on a solid surface.
- ※ Perforators are very heavy. Please take caution while moving and setting up the unit with 2 or more persons.
- ※ Please don't insert the key into the power switch ① until you are ready to perforate.
- For how to operate the die block, please refer to Page 6.

### ■ Preparation for use (Pin Style: 905)

1. Insert the power plug ② into an AC outlet.
2. Select the date or number that you wish to perforate.
  - ※ Remove the “select” pin ② and rotate the wheel ① to the required number. Insert the “select” pin *securely*.
3. The perforation depth can be manipulated by adjusting the depth gauge ⑫.
  - ※ Please loosen the screw ⑬ on the depth gauge ⑫ and adjust to required position.



### ■ Preparation for use (Lever Style: 905L)

1. Insert the power plug ② into the AC outlet.
2. Select the date or number that you wish to perforate.
  - ※ Move the “lever” pin ③ up or down the wheel ① will turn and choose the desired character. Select the number to match the right and left indicator ④. In the desired position you can feel it lock into place.
3. The perforation depth can be manipulated by adjusting the depth gauge ⑫.
  - ※ Please loosen the screw ⑬ on the depth gauge ⑫ and adjust to required position.



### ■ Preparation for use (Fixed Die: 605/705)

1. Insert the power plug ② into the AC outlet.
2. These dies are for fixed characters. There are no characters or dates to select.
3. The perforation depth can be manipulated by adjusting the depth gauge ⑫.
  - ※ Please loosen the screw on the depth gauge and adjust to required position.

- There is a micro switch to auto activate the perforation cycle located on the depth gauge. (Upon paper insertion, the machine will activate automatically.)



■ Basic operation method of perforating (common to all series)

※ This product has no power switch. Turn the key switch for turning on the power.

(Status of power lamp and key switch when operating the unit)



Light is off

Key is on the left side.  
It is possible to insert  
or remove the key



Light is on

Key is in the middle.  
The machine is on  
single use mode.



Light is on

Key is on the right  
side. The machine is  
set on continuous mode.

※ The key of the power key switch ① can be plugged in or removed when it is in the left side position.  
In the single use mode, the paper is inserted into the paper feed opening ⑧, when the depth switch ⑫ is pressed, the motor is activated, the perforating operation is started. When the perforating operation is completed, the motor stops.

※ Under continuous use mode, the motor will work continuously.

1. Turn the key switch ① to right side. (key in the middle : single use) (key in the right side : continuous use)

※ Please refer to the above pictures.

Lamp ③ lights green, the machine can perforate.

2. When inserting the paper into the feed opening ⑧, the edge of the paper will activate the depth micro switch and the perforation process will begin.

3. Please pull out the paper after perforating.

4. The perforating is completed.

5. After every cycle, paper chips will accumulate in the paper chip storage container.

※ Please clean the paper chip storage container on a regular basis. Accumulated paper waste can clog the die if the container is not emptied regularly.



Please discard the paper waste frequently,  
otherwise it will cause damage.

## 8. Depth Adjustments

■ There is a microswitch to auto-activate the perforation cycle located on the depth gauge.  
(Upon paper insertion, the machine will activate automatically)

※The position of the micro switch is set at the point of maximum depth when shipped from the factory.

■ If you need to change the depth, please adjust according to the following procedure.

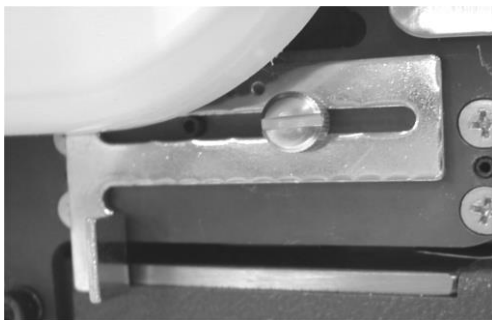
※The microswitch is located on the depth gauge located on the right side of the die block.

**Note:** Please turn off the power when you adjust the depth.

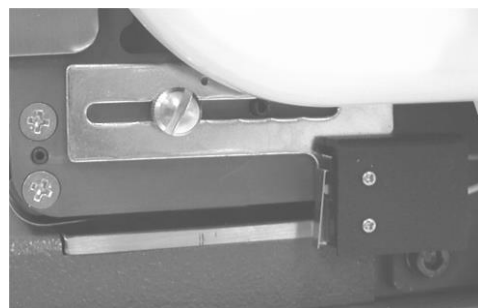
*Do not attempt to adjust the depth switch gauge on the left side of the die block if the power is on.*

1. To adjust the depth position, please loosen the screw ⑫ and change the depth position by sliding the gauge either forward or backward.
2. First adjust the right side depth gauge and then adjust the left side depth gauge.  
Key points of the adjustment: To check whether the position of the depth gauge is equal on both the left and right side, insert one piece of paper and check the squareness of the paper.
3. After the adjustments are made, please turn on the power switch ① and make a perforating test.  
Check the positioning of the perforation and make final adjustments as necessary.

Left depth gauge



Right depth gauge



## 9 . How to remove and install a die block

■ Following is the procedure to remove and install a die block.

※**Note:** Be sure to turn off the power and unplug the power plug from the outlet before attempting repairs.

TOOLS NEEDED : Phillips screwdriver.

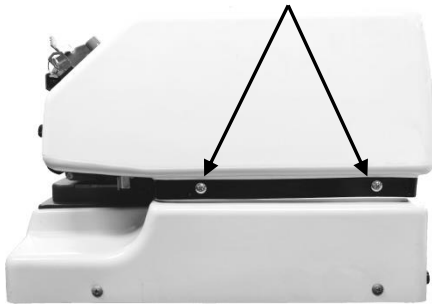


6 mm L shape hexagonal wrench (Allen wrench) located in the accessory bag.



1. Remove the right and left side 4pcs screw ⑩ of top cover ③ of main unit.
2. Please pull it up and remove the top cover ③ and put it aside as the following picture.
- ※ It is better not to remove the top cover's connector of the main body.
3. Remove the die block fixing screw ⑪ with the enclosed Allen wrench.
4. Slowly pull on the die block and remove it.
- ※ When the shaft pin ⑯ is disengaged from the arm ⑮ of the main body the die block punching part will go down.
5. Disconnect the 2 positions of the connector ⑭ of the depth gauge switch ⑫.
6. Pull the shaft pin ⑯ out of the die block.
7. Prepare the new die block ⑦ for replacement.
- 8 . Insert the shaft pin ⑯ into the new die block.
9. Place the die block ⑦ on the die base ⑰ and connect the depth gauge switch ⑭ firmly.
10. Pull up the shaft pin ⑯, insert it into the arm, push the die block ⑦ all the way in.
- ※ The groove on the back of the die block is inserted into the stud bolt ⑬ on the main body side.
11. Attach the die block with the screw ⑪ and ***firmly tighten.***
12. Insert the top cover ⑨ into the body from the upward direction.
- ※ Please push the connector downward so that the connector will not protrude.
13. Tighten the top cover screws firmly.
14. The die block replacement is now completed.

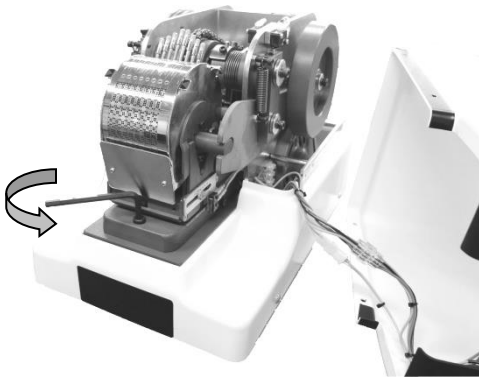
- 【1】 Remove the 4 screws of top cover (left and right side).  
**Note:** please don't remove the bottom screws.



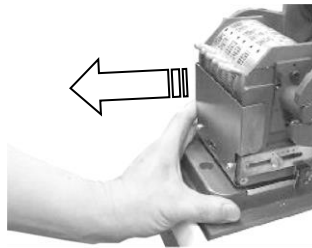
- 【2】 Lift up the top cover and put it aside as picture. (Don't remove the top cover from connectors).



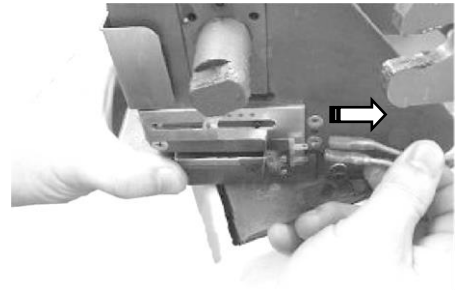
- 【3】 Remove the fixing screw of die block.



- 【4】 Pull the die block out partially.

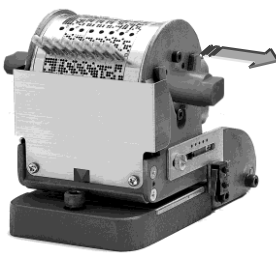


- 【5】 Remove the connector of the depth switch.

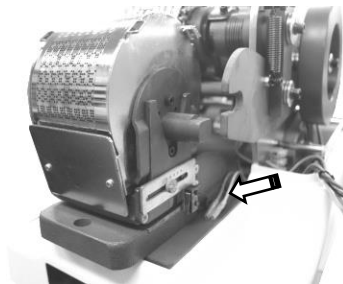


- 【6】 【7】

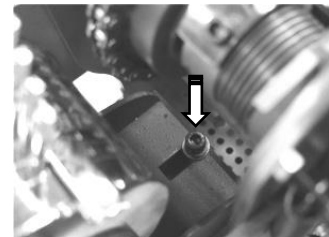
Remove the shaft pin and insert it into the new die block.



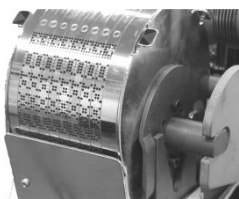
- 【8】 Place the die block on the die base and connect the depth gauge switch firmly.



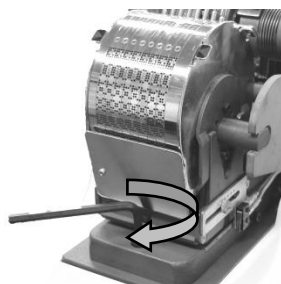
※The groove on the back of the die block is inserted into the stud bolt on the main body side.



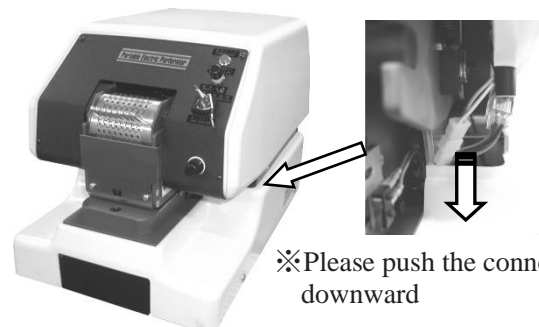
- 【9】 Pull up the shaft pin, insert it into the arm, push the die block all the way in.



- 【10】 tighten the die block screw ***firmly***.



- 【11】 【12】 Cover the top cover into the body from the upward direction. Tighten the 4 screws.



※Please push the connector downward

## 10. Troubleshooting.....

No.	Malfunction Description	Inspection and potential solutions
1	<p>a. No power. (the power lamp is not lit)</p> <p>b. Cannot perforate.</p> <p>c. Even though turned the key switch, there is not operating sound.</p> <p>d. Turned the key switch but the operating sound will not stop.</p>	<p>a: Is the power plug inserted into the AC outlet? Please insert the power plug into the AC outlet.</p> <p>a: Is the fuse blown? Please inspect and replace with the spare fuse.</p> <p>b: Is the paper touching the depth switch? If the paper is not touching the depth switch, the micro switch cannot activate. Please adjust the depth gauge and test. Still will not activate? Please push the lock release button.</p> <p>c: The key switch is on the single use. Push the depth switch; the machine will perforate.</p> <p>d: The key switch is set for continuous use. In case of continuous use, the motor is running continuously.</p>
2	<p>a. The perforated holes are not normal.</p> <p>b. Cannot perforate the holes according to selection.</p> <p>c. Perforate extra holes.</p> <p>d. Some holes cannot perforate. (in case of fixed letters)</p>	<p>a: The tip of needle or the hole of die plate is worn out. Please replace the needles or the die plate.</p> <p>b: The needles are bent or the needles are damaged. Contact your local authorized servicing dealer.</p> <p>c: Pin Style: the selector pins were not inserted securely. Lever Style: the lever is not positioned securely. Select the number or letters correctly and check if the position is accurate.</p> <p>d: The needles are possibly bent or the needles are damaged. Contact your local authorized servicing dealer.</p>
3	<p>a. Strange sound occurred.</p> <p>b. Working continuously.</p> <p>c. The machine has power but is not perforating.</p> <p>d. Cannot remove the paper chip storage container to empty it.</p>	<p>a: The tip of needle or the hole in the die plate is worn out. Please replace the needles and/or the die plate.</p> <p>a: Lack of maintenance and lubrication. Please lubricate all moving parts.</p> <p>b: The needles are bent or the needles are damaged. Contact your local authorized servicing dealer.</p> <p>c: The belt is slipping. Contact your local authorized servicing dealer.</p> <p>d: The paper chip waste container is overloaded. Don't forcibly remove the container. Contact your local authorized servicing dealer.</p>

■If you experience problems/symptoms other than outlined above, please turn off the power ① and remove the power plug ② from the AC outlet. Also don't remove the top cover ⑨ inadvertently.

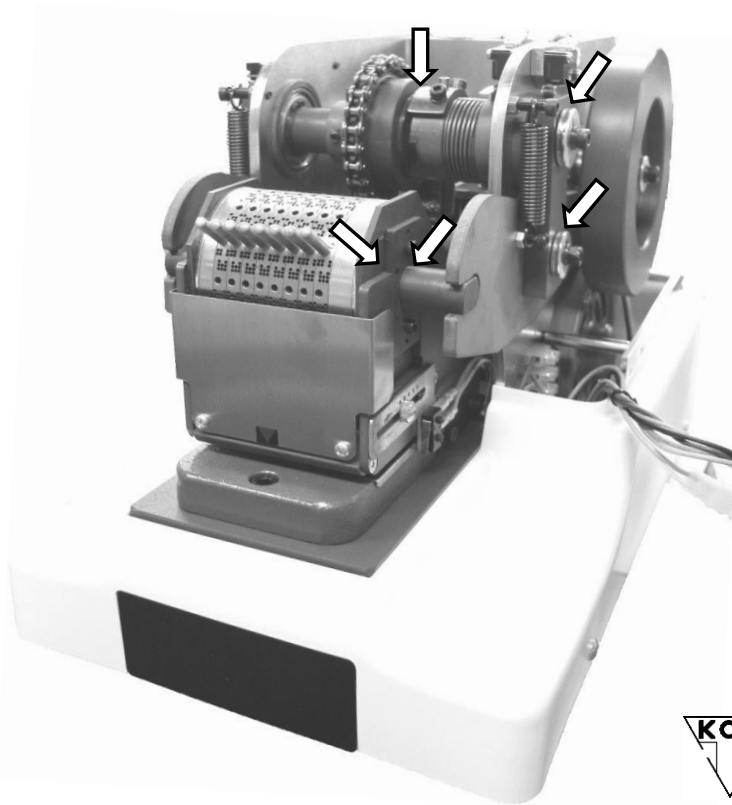
■If you went through the troubleshooting procedures listed above, and the symptoms remain, turn off the power and remove the power plug from the AC outlet. ※Contact your local authorized servicing dealer.

## 1 1 . Cleaning and maintenance

1. Please check & empty the paper waste storage container prior to/during operation or on a regular schedule. Not emptying the waste regularly may cause needles to malfunction and the waste drawer not to be opened. Continuing to use the perforator may cause damage to the die block. Please be sure to empty the paper chip storage container before it becomes full.
2. If you would like to clean the top cover or the bottom cover of the perforator, please wipe it with dry cloth. (Caution: Never use solvents such as alcohol or thinner.)

## Lubricating Points

- ※ Periodically lubricate parts with a light machine oil where indicated by arrows  
Please lubricate the same position on the left front side



- Please empty the paper chip storage on a regular basis.



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