

User file

Name _____ Tel _____

Address _____

Company _____

P.C _____ Date _____

Distributor _____

Model _____ Serial No _____

Foreword

Thank you for your choice of our numerical-controlled and Program-controlled Paper Cutting Machine series. We will provide good quality and reliable after-sale service. On the basis of original products, our research and development engineers combined advantages of products at home and abroad, and finally developed new model with new advantages machines. It owes high technology, precise construction design, and elegant appearance, with the security control part and cutting precision improved to get good work efficiency. It can be broadly used in printing shop, own company use, or government office use. It is the most ideal cutting equipment which well complies with office automatic system.



Warning: this kind machine is allowed to cut printed paper or books or soft leathers only. It is forbidden to cut any metal sheets or other hard objects do harm to the machine quality with this kind machine.



Children must not operate this machine



Do not reach beneath the blade.



Do not extract or transport the blade without protection



Do not cut hard material or materials which may splinter.



Must use socket with ground wire connected.

Note: Please read this manual carefully first in order to realize and use this kind machine. It will help you improve the work efficiency, bring into play the function of the machine, prolong the service life of the machine.

Safety Cautions

According to relevant standards, to avoid accident and accidental injury, only professional operators are allowed to use this machine (children or non-professional operators are forbidden to operate). When you use or maintain these machines, please pay high attention to safety cautions below:



Riding position

The weight of this kind machine is about 230-330kgs. Please put it balanced and in a clean place.



Power

Please connect with the power source correctly in accordance with the specification. The power source should be steady AC220V(110V)±10%/50Hz(60Hz)/2KW, and the machine will run irregularly if the voltage is too high or too low. We suggest you use alternating current (AC) power source with steady voltage to improve your working efficiency.



Ground connection

For safety you should use electric supply socket with ground wire connected



Surcharge

Don't connect many electric equipment at one socket. It is dangerous and easy to cause fire or electric shock.



Maintenance

Before you clean or maintain the machines, you must cut the electric source and pull out the electric supply socket.



Waterproof

Prevent water or other liquid flow into inner machine.

3. Maintenance should be undertaken by the local sales agency.

4. We won't undertake the maintenance and accessories diversion fees caused by conditions below:

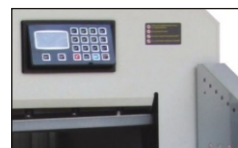
- ① Damage caused by accident, wrong operation or intent disassembling.
- ② Repaired by stations not authorized by our company, or use dependable materials and accessories not required by our company.
- ③ The customer doesn't register in the maintenance station within one month after he buys the machine.
- ④ The machine is damaged because of oil lack, oil in or water inflow.

VI、Repair warranty

1.The guarantee period of paper-cutting machine is one year. You should register in maintenance station within one month after you buy the machine, in order to establish maintenance file.

2.Maintenance service scope:

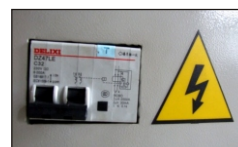
- ① Free installation adjustment operation training periodic maintenance, elimination of error in normal operation, and repair.
- ② Freely change parts damaged in normal operation; maintain motor and circuit for one year; knife shim and blade belong to expendable supplies, so they are excluded from the maintenance scope.



Children or non-professional person must not operate this machine.
Do not reach beneath the blade.
Do not reach cut.
Do not cut hard material or materials which may splinter.



Must use socket with ground wire connected. !



Air safety switch, non-professional person is not allowed to open. It is much dangerous.



Under normal usage , add right amount lubricating oil to transmission parts and screw mandrel to ensure the machine running properly.



Test to running the machine with one piece 180gsm paper. If the paper can't be cut completely, please fine adjust the spin blade depth(adjustable depth range about 5 mm)

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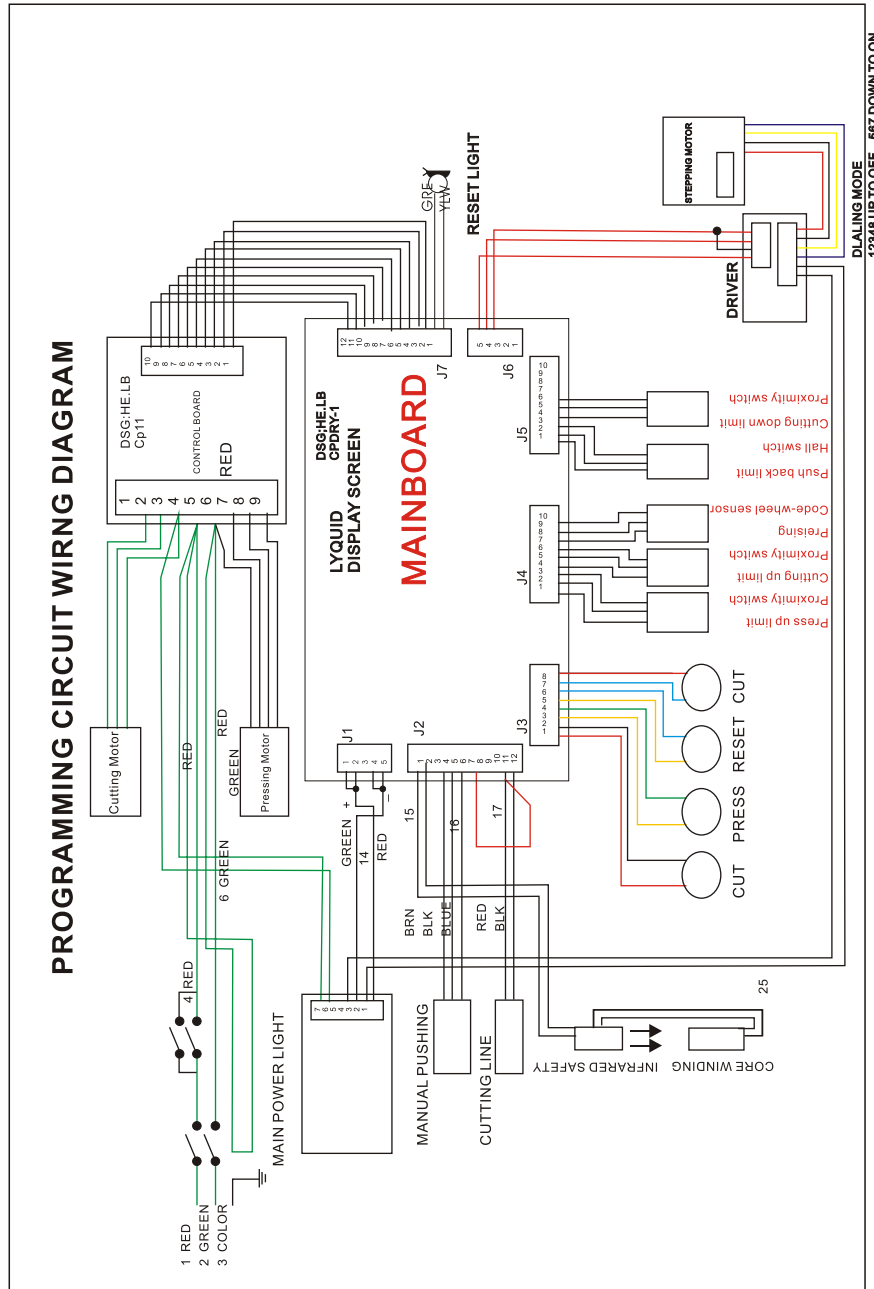
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Chapter V Common error and elimination

Error	Phenomena	Elimination method
No power show	Indicative light don't shine	1. Check the power socket 2.Check main switch 3.Check the power wiring
Capacitor of motor damage	Blade is going up and down very slowly and powless	Replace capacitor
Irregular paper-cutting or too big difference	The cut paper has one side wide and the other side narrow, or has big deviation on dimensions	Loose firm screw, and use a ruler to adjust the angle between measuring scale and paper-pushing plate
The knife can't reset or works up and down continuously	The button is invalid. The blade works up and down without stopping	1. The sensor is displaced or damaged. 2.Circuit main panel is damaged
The window can't display or display wrong or can't check	Normal buttons of power source are invalid	Check display board , mainboard and circuit parts
Digital-controlled circuit damaged	Paper-pushing part is not working	1. Check stepping motor, driver 2. Check whether main board is damaged.
E-1	The button is invalid and cutting action stops	1. Please check if there is anything block the IR area; 2. Please check if the IR board is damaged; 3. Please check if the main board is damaged.
E-2	Cut normally, but blade can't return the original position	1. Please check if the upper limit sensor in the blade carrier is damaged or off normal; 2. Please check if the main board is damaged.
E-3	Cut normally, cutting blade depth can not be adjusted	1. Please check if the lower limit sensor in the blade carrier is damaged or off normal; 2. Please check if the main board is damaged.
E-4	Press shelf return abnormal	1. Please check if the upper limit sensor in the press shelf is damaged or off normal; 2. Please check the mechanical structure of the paper clamp; 3. Please check if the main board is damaged.
E-5	Press shelf can not be down completely, the blade can not cut	1. Please check if the upper limit sensor in the code wheel is damaged or off normal; 2. Please check if the main board is damaged.
E-6	Cut normally, but the paper pusher can not be calibrated correctly	1. Please check if the rear limit sensor in the back of the machine is damaged or off normal; 2. Please check if the main board is damaged.



Chapter I Safety cautions before installation

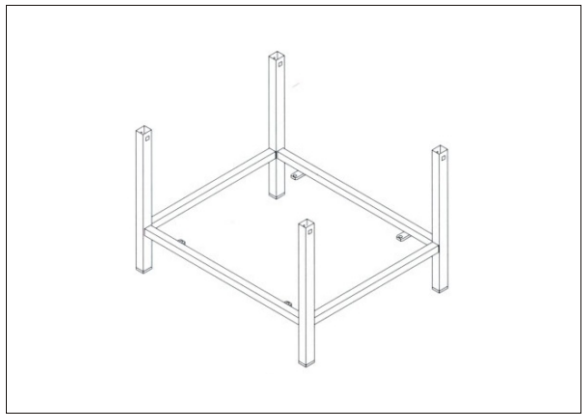
1、Open the machine and check

When you open the package of the machine, firstly you should check the machine and relevant accessories. Please contact the seller or our company if there is any damage or shortage.

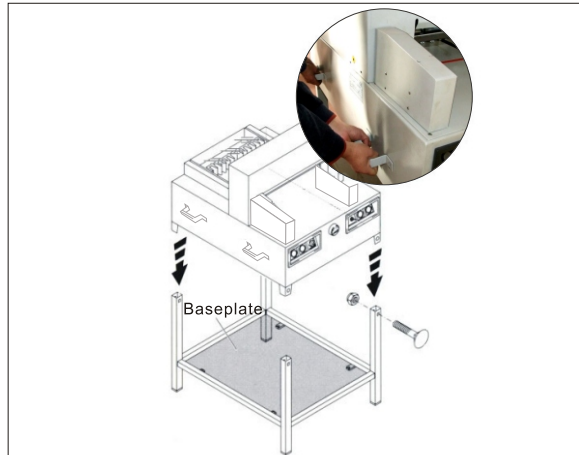
● Main unit one set	● Specification one piece	● Machine chassis one set
● Tooling one set	● Certificate one piece	● Rubber under chassis four pieces
● base plate one piece Stick	● wiring one piece	● Maintenance warrant one piece

2、Settlement of the machine

- Open the wooden crate, take out the machine casing and discharge fixed screws on the base plate of the main machine;
- The machine casing needs to assembly, and the screws should be fixed firmly;



- The main unit should be put on the machine casing correctly;
- Check all the parts of machine, and clean them;
- Turn on the power to electrify and test running.



3、 Platform for putting books

The platform is installed backwards. You should unscrew the fasten screws and overturn this platform plate from 180° before using. Then fix the screws firmly. It's easy to install and not take more space from wooden case. It makes more convenient to put cut books or books waiting for cutting.



Chapter IV Lubrication and maintenance

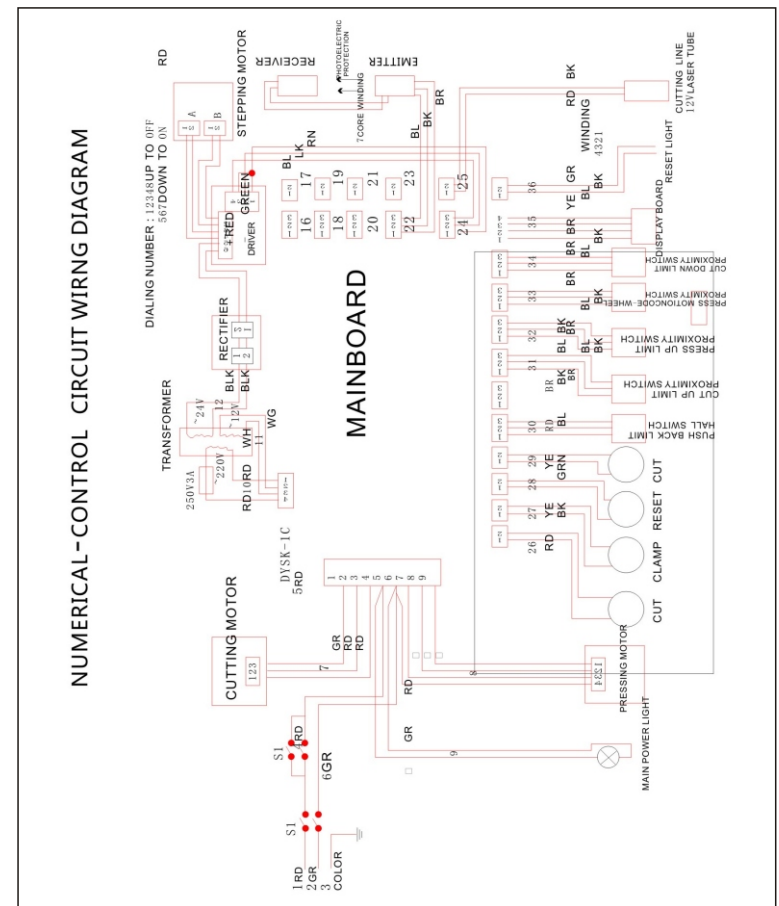
1、 Lubrication

Every three month, you should open the brace plate of the machine, check and clean, tighten parts, and use lubricating oil to rolling parts. When you do lubrication, be careful to avoid lubricating oil dripping on the wires or electrical parts. The speed reduction box needs to be cleaned and lubricated once a year.

2、 Maintenance

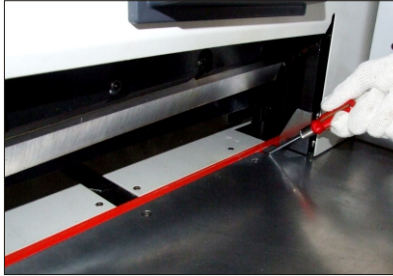
- 1) When the machine is running, foreign objects are forbidden to put on the machine, because if hard objects come under the blade, the blade will be damaged. There should be no staple pin in the book, which is coming to the cutting area, to avoid damaging the blade.
- 2) After everyday work, you should wipe the machine, remove junk, wax the blade to protect it, and cut the power.

3、 Attached figure



2-4 Cutting stick adjustment

- ◆ One knife shim can be used for 8 times;
- ◆ When slash on the shim is too deep, you should adjust or change knife strip;
- ◆ Knife shim can be took out by screw, and should be assembled onto the cutting desk flatly when it needs to be set back; Knife shim should lean to the left side, then re-push the front brace plate;



※ **Note:** When knife shim is being changed, the blade itself also needs to be adjusted. If the blade cuts too deep, the knife shim will be damaged easily, and also the blade will abrade rapidly.

4. Environmental Conditions

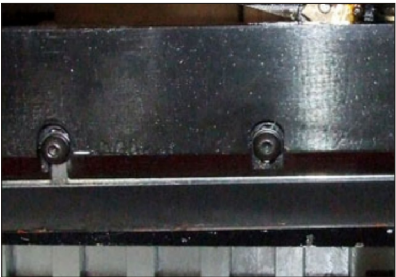
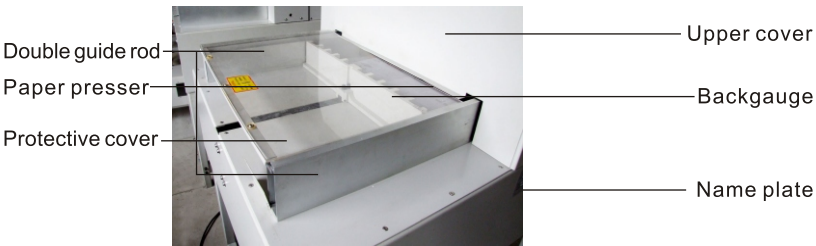
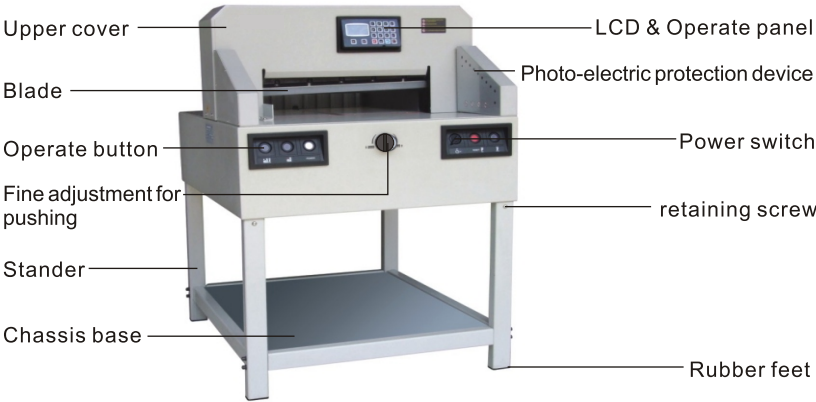
- The machine should be placed in clean working environment, keep away from direct sunlight and wind;
- Temperature of the operating environment: 10-30℃, cannot higher than 32℃;
- Humidity level of the operating environment: 50-80%;
- Working power source of the machine: 220V(110V)±10%; 50Hz(60Hz)/2KW;
- Connect the ground wire correctly.

5. Special suggestions

- ⚠ Remember only one professional operator is allowed to work on the machine;
- ⚠ When you cut you should operate buttons by both of your hands;
- ⚠ Please don't disassemble infrared safety covering;
- ⚠ When you put your hands or other things into the cutting area, you must cut the power first;
- ⚠ When you change knife blades, you should firmly comply with the blade changing instruction;
- ⚠ You are not allowed to re-equip the inner construction and circuit of the machine by yourself.

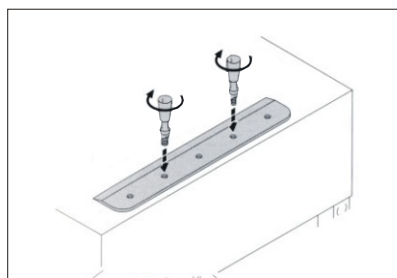
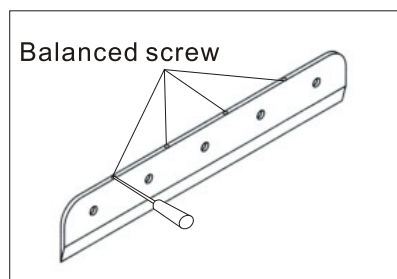
Chapter II Brief instruction of the paper cutting machine

1、Parts description



- ◆ Blade sharpening needs to be done in a professional factory,so that to ensure the quality.
- ※Note: Dull blade can't cut paper correctly. Also, blade will become dull if it always cuts thick paper or pasteboard. If cutting quality and accuracy can't meet required standard, the blade needs to be changed. Your work will go smoothly if you always have one replacement on hand.When you need to change blade, you must operate according to the steps of blade change instruction.
- ※Note: To avoid any injury, you must be the most careful when you change the blade.

- ◆ Be more careful when taking a new blade out. The blade cutter point must not be to the body. When you install the blade, you should screw up the screw stems. Set the blade on the blade carrier, use screw strip to fasten and fix up, then adjust according to cutting depth adjustment method.



2、Characteristics

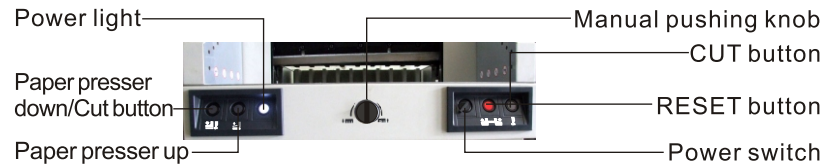
- ◆ Designed with CE standard, photo-electric safety protection device , back protection cover conform to safe system;
- ◆ Independent pressing and cutting paper design device
- ◆ Spin cutter with fine adjusting depth curve technology device
- ◆ Double guide rod paper pushing design device ensure pushing precision
- ◆ Imported main motor to ensure enough power
- ◆ Precise digital-control pushing circuit design, accurate positioning, reset protection, digital-display cutting size(only for EX series)
- ◆ Updating program circuit design, programming can be set at will and 100 programs storable (only for PX series)
- ◆ Special malfunction code display function
- ◆ Optical cutting line; infrared laser indicating line
- ◆ Fashionable appearance design with patented

3、Principal technical parameter

Model Specification	4806EX 4806PX	5508EX 5508PX	6508EX 6508PX
Max. cutting width(mm)	480	550	650
Min. cutting width(mm)	30		
cutting thickness(mm)	60	80	
Pressing mode	Automatic		
Pushing mode	Program-control		
Display mode	EX ——Digital , PX——LCD		
Safety protection	infrared photoelectric protection		
power supply	1.3KW/220V/50Hz 1.3KW/110V/60Hz	1.7KW/220V/50Hz 1.7KW/110V/60Hz	
Machine measurement (H×D×W, mm)	935X780X1250	1010X850X1290	1100X950X1290
Net Weight	230 kg	280 kg	330 kg

4、Operating panel and buttons

4-1 operating button and functions instruction



Press  +  +  Single pressing

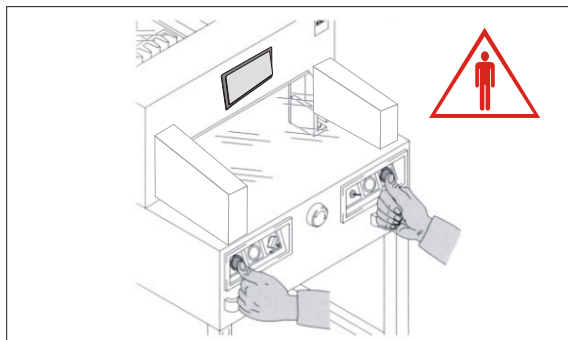
Press  +  +  Paper presser return

Press  +  Clamping before cutting

Press  +  +  Start

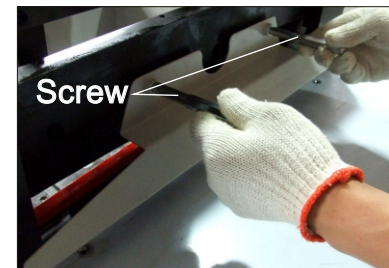
4-1-1 Operate figure for cutting

Turn the protective switch to 'ON' position to power on. The machine comes into electrify. (If switching to 'OFF' position, the power is turned off.) Then the power light shines, the machine can be operated. The right method of using this machine like this: Stand in the middle front of the machine, face to the machine, press left and right cut button to make machine work (show in Figure)

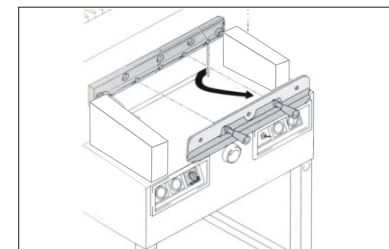
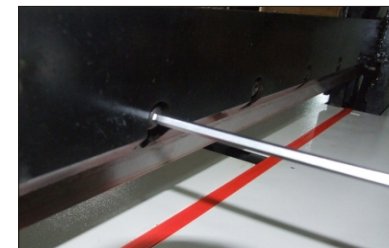


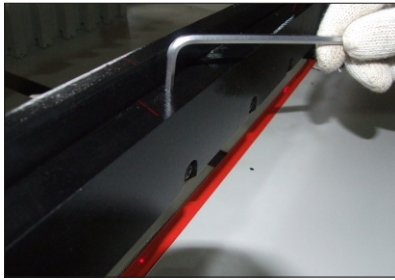
2-3 Blade replacement (Be careful to operate)

- ◆ Open the upper cover;
- ◆ Loose the notched fasten screw on the blade carrier, revolve the two screw stems clockwise, and then fix up and lock firmly;



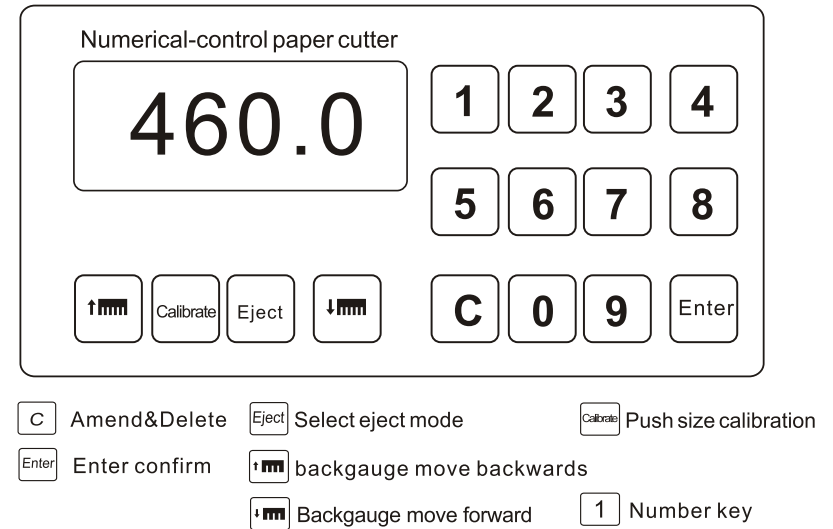
- ◆ Take away other fasten screws on the blade carrier;
- ◆ Revolve the two screw stems anticlockwise 180° , then take out the blade. Please wear gloves or use cotton cloth to wrap the blade to avoid being hurt.





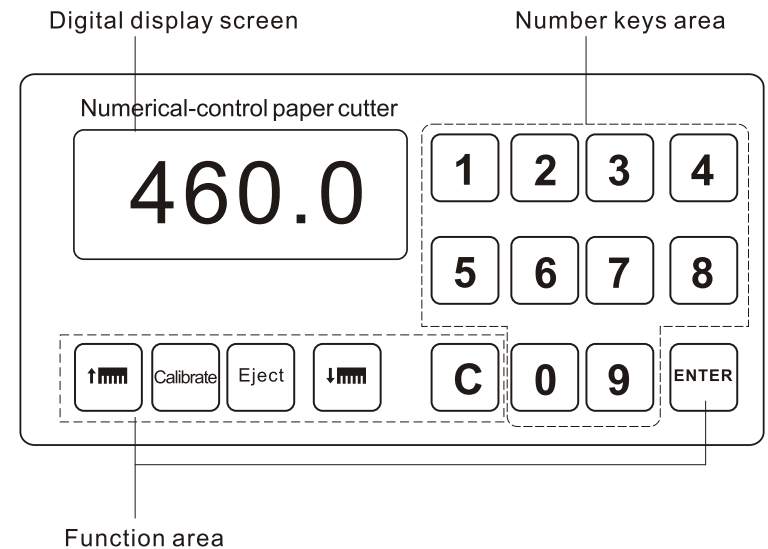
- ◆ Tighten up fasten screws on blade carrier, and put on the upper cover, then fix up;
- ◆ Choose one piece of paper to have a trial cut. If it can not be cut completely, you can readjust according to the above processes.

4-2 EX Numerical-control series Display screen functions instruction

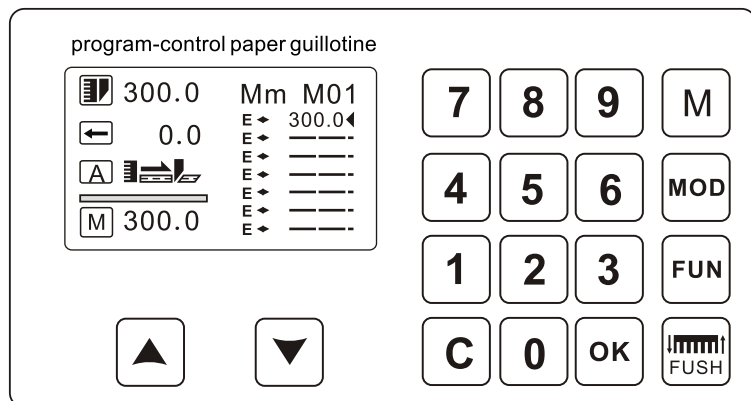


460.0 Cutting size

Note: Every time you enter data, you must add 0 more digit at the end to get accurate data. For example, you want to cut 460mm, you should enter 4600, then press ok. If you enter 0460, the finished cut size will be 46mm after you press ok.



4-3 PX Program-control series Display screen functions instruction



- OK** Confirm entering, saving and backgauge moving
M Out storage data **PUSH** Eject mode and reset
C Modify and clear data **MOD** Mode for switching **▲ ▼** Forward & Back/Select key
1 Number key **FUN** Function key

M Press M key to be out storage data, and getting into automatic mode. Single press M key without losing, you can modify and select groups in M area from 0-100 with entering number in M area or switching steps up and down until the cursor shine.

MOD Press MOD button to switch among manual, automatic and divide mode. You can get into manual mode with pressing any number if current mode is automatic or divide. Press C to get into modify mode. Then press ok to save data and exit.

FUN + **▼** Getting into screen of fine adjustment for cutting blade

FUSH Press RESET button and loose it at once, the backgauge is moving automatically. If pressing the RESET in 2 seconds, the backgauge is getting into reset state.

Note: Every time you enter data, you must add 0 more digits at the end to get accurate data. For example, you want to cut 460mm, you should enter 4600, then press ok. If you enter 0460, the finished cut size will be 46mm after you press ok.

2-2 Cutting blade adjustment

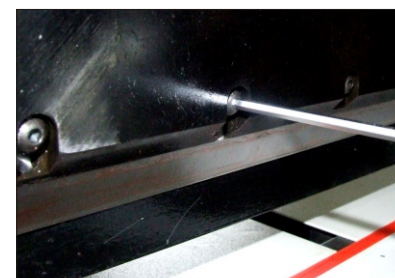
- ◆ Cut off the electricity power;
- ◆ First of all, fine adjust the cutting blade depth(adjust depth range about 5mm) or exchange the cutting side of stick.



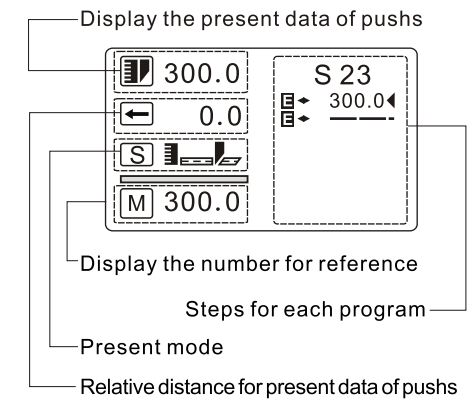
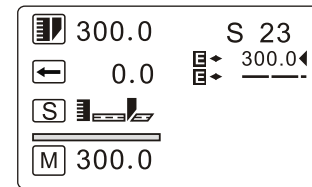
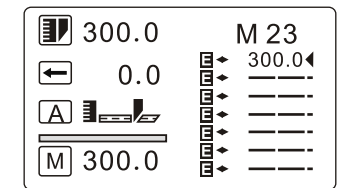
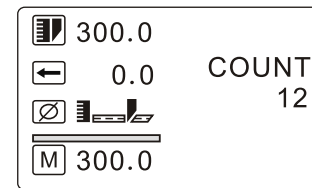
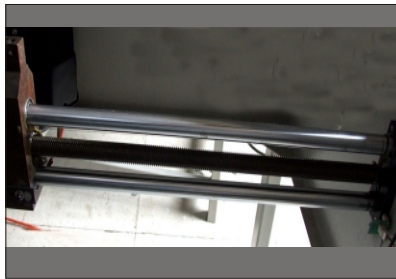
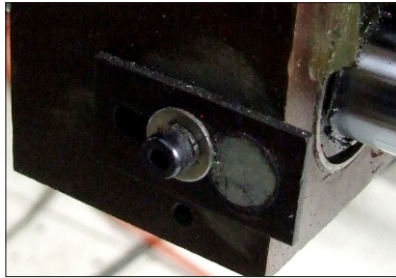
- ◆ If the last paper still can not be cut completely after fine adjustment the cutting blade depth. Adjust the balanced screw of cutting blade depth once more. Disassemble retaining screws on both sides of the upper cover, and then take the upper cover away;



- ◆ Loose five M8 fasten screws on the blade carrier which fixed the blade and adjust the adjustable screw on blade carrier, until the blade cuts into the cutting stick about 0.3-0.5 mm;



- ◆ Adjust the support chip on the screw, and you can move it back and forth until digital display dimension matches measuring scale dimension, then lock the retaining screw firmly.



Chapter III Basic operation

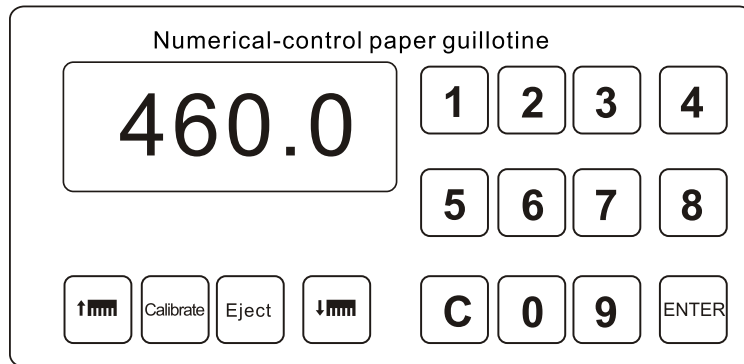
1、Basic operations




Start the machine

- ◆ Before operating the machine, please review contents described before carefully. Then remove the things on the machine and clean the machine.
- ◆ Insert the power plug into AC220V.50Hz .4Kw socket.
- ◆ Turn the protective switch to on position. Digital display screen or crystal display shines, indicative line light. The machine can be operated after backgauge is calibrated automatically.

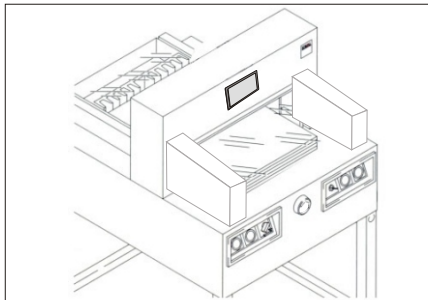


1-1 4806EX/5508EX/6508EX operation instruction



1) Assuming 460mm is present cut size, if you want to cut size of 210mm, and then enter 2100 in the control panel. Press **ENTER** (If you enter wrong data, you can press **C** key to delete and modify the size) and the backgauge will move 210mm position. There are two more methods to set size. One method like this: Press  and  to make the backgauge move forward and backward to 210mm, the size of the scale should be same as the size displayed on the screen. Other method is to rotate the button  to make the backgauge move 210mm. Backgauge move 0.1mm backwards each rotation. This method is used fine adjustment. If the size is big difference, you'd better use first method or enter number in the display screen.

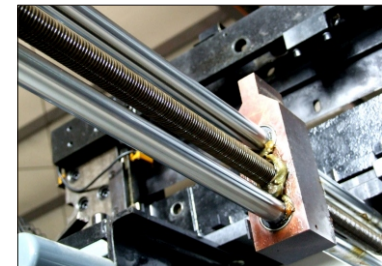
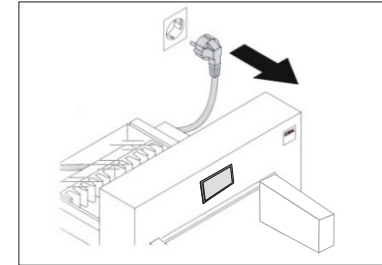
2) Put the books or paper right to cut, then make the books or books lean to the left front guide.



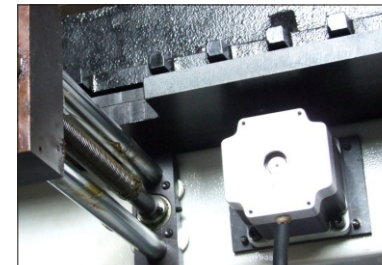
2、Basic adjustment

2-1 Dimension check and adjustment

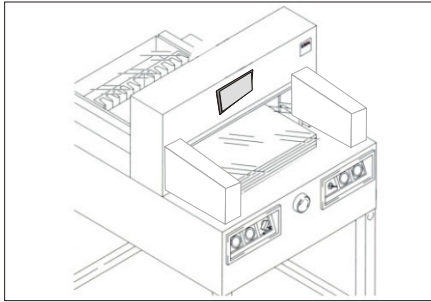
- ◆ Cut off the electricity power;
- ◆ Unload the back cover plate. Check whether there is any foreign matter block on the guiding rod;



- ◆ Pull out the front covering strip, and check stepping motor, to see whether the synchronous pulley and synchronous belt are fixed normal;

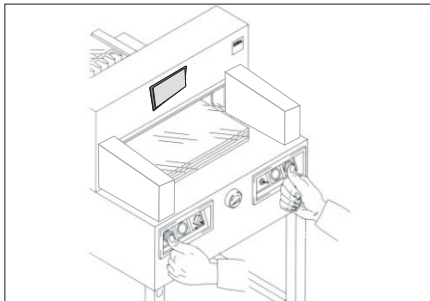


- 2) Put the paper or books right to cut, then make the paper or books lean to the left front guide.



- 3) Start to cut after the size is entered. Press two CUT buttons at the same time. After that, the paper presser and blade come down, if finding the paper not straight, stop pressing two CUT button, and press + to make paper presser and blade return. After you confirming the paper is put right, then press two CUT button to finish cutting completely.

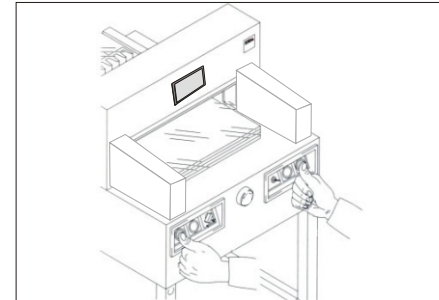
Press + Clamping before cutting

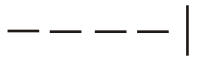
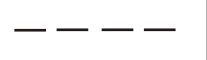


- 4) Different result is in different working mode. i) In the manual mode state, press EJECT after finishing cutting, backgauge will eject paper or books automatically.
- ii) In the automatic mode state, if setting eject automatically after cutting, backgauge will eject automatically. If not setting eject automatically after cutting, after finishing cutting, then press EJECT, backgauge also will eject paper or books automatically and get into next data.
- iii) In the divide mode state, after first cutting, backgauge will eject second divide size. The rest will be done in the same manner until the paper is cut completely.
- 5) Repeat above operation if cutting should be continued.
- 6) If the last paper can't be cut completely, please adjust it following the method of blade adjustment'.

- 3) Start to cut after the size is entered. Press RESET button first, then pressing two CUT buttons at the same time. After that, the paper presser and blade come down, if finding the paper not straight, stop pressing two CUT button, and press + to make paper presser and blade return. After you confirming the paper is put right, then press two CUT button to finish cut completely.

Press + Pressing before cutting



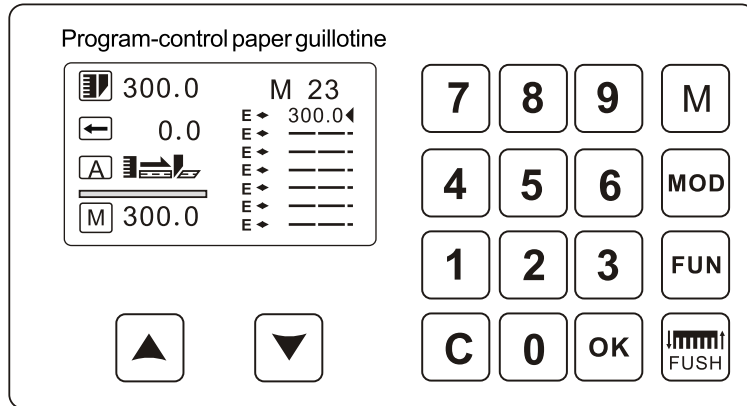
- 4) Then press **ENTER** button, the paper or books will be ejected automatically. (If the eject is set before cutting, the paper or books will be ejected automatically without pressing ENTER button). Set eject paper or books.
- Press **EJECT** button, the display screen displays , Ejecting after cutting automatically.
- Display screen displays , that means Not ejecting after cutting.
- Press **EJECT** button to switch into ejecting or without ejecting. It will be saved set in 2 seconds.

- 5) Repeat above operation if cutting should be continued.
- 6) If the last paper can't be cut completely, please adjust it following the method of blade adjustment'.

Note: 1. If the size on the scale is not same as the digital display, please press **ADJUST** to adjust or adjust follow the 'method of size adjustment'





2. The display screen will display E-1 if something covers the photoelectricity protection area or 'foreign objects in the working area and warn, all the buttons won't be working.



1-2 4806PX/5508PX/6508PX operation instruction

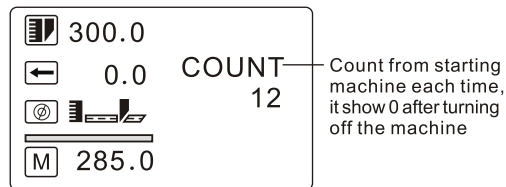


1) There are three pushing modes in programming paper guillotine. Now we take 285mm for example to push paper.









I) 、 Manual mode








Manual mode is with priority. As long as rotating the knob  with hand ,the mode will be switched into manual state and display  whatever mode it is in before . When in divide and automatic mode state, only press  to switch into manual mode state  automatically.

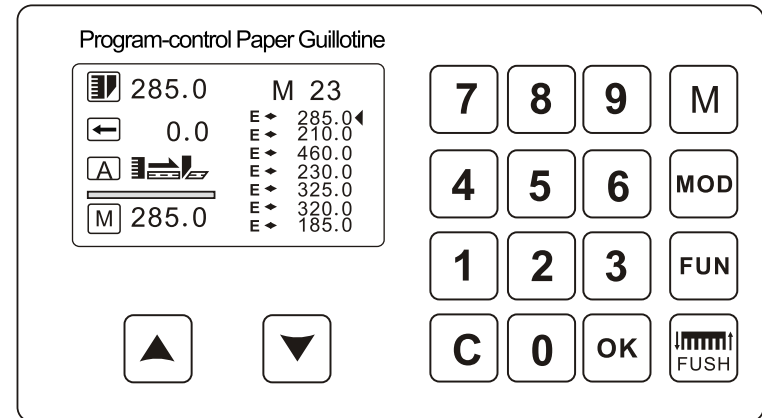
- ◆ Rotate the knob clockwise. Backgauge will move in the direction shown by the arrow  .Backgauge move 0.1mm each rotation. It moves quicker and quicker if keeping pressing the knob
- ◆ Rotate the knob anticlockwise.Backgauge will move in the direction shown by the arrow  .Backgauge move 0.1mm each rotation. It moves quicker and quicker if keeping pressing the knob
- ◆ Assuming present backgauge is in 300mm position, it moves 0.1mm each rotation until getting the position of 285mm. The crystal display screen display:






II) 、 Automatic mode

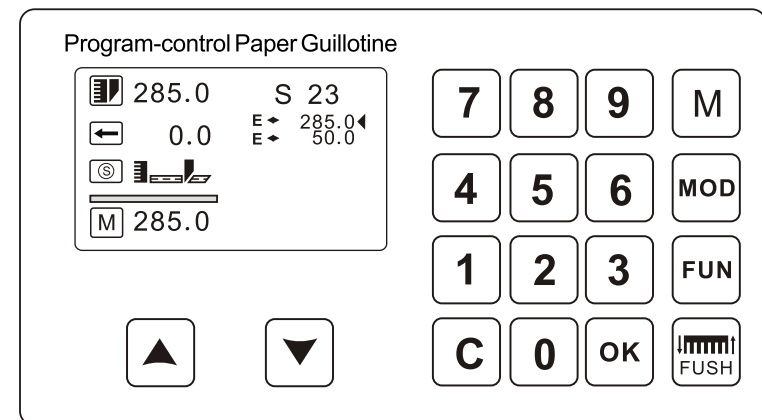
Press  to get into automatic mode  and LCD displays seven blank data (there are 100 groups,7 groups each blank.) Press  without loosing, enter number until the cursor shine. Select groups by switching   . For example, press M without loosing,then enter 23 until cursor shine. Press M or  to select this group data or blank data, or switch  or  to get M23. If there is only dotted line there, press C to enter data.

and set cutting size 285mm, press  or  to save ,then set next designate data. The rest can be done in the same manner. After finishing setting, key change to select 285.0 and press  to make paper pusher move to M1 285mm position automatically. Select  ,display  , That means the backgauge won't eject paper or books after cutting. Press  once time and display  . That means the backgauge will eject cut paper or books automatically after cutting.



III) 、 Divide mode

Press  to get into  divide mode. Press  button to clear and set overall size 285mm. Press C to clear and set divide size 50mm,then press ENTER to make backgauge move to overall size 285mm position.



Note: In divide mode,  the eject function is invalid.