

Precise 4606 Paper Cutting Machine



Precise 4606 Paper Cutting Machine User Manual

[Home](#) » [Precise](#) » Precise 4606 Paper Cutting Machine User Manual 

Contents

- 1 [Precise 4606 Paper Cutting Machine](#)
- 2 [Product Usage Instructions](#)
- 3 [SAFETY CAUTIONS BEFORE INSTALLATION](#)
- 4 [BRIEF INTRODUCTION OF THE PAPER-CUTTING MACHINE](#)
- 5 [Parts description](#)
- 6 [BASIC OPERATION AND ADJUSTMENT](#)
- 7 [Cutting stick adjustment](#)
- 8 [LUBRICATION AND MAINTENANCE](#)
- 9 [Appended drawings](#)
- 10 [Documents / Resources](#)
 - 10.1 [References](#)

Precise

Precise 4606 Paper Cutting Machine



Specifications

- **Product Name:** 4606 PAPER CUTTER
- **Recommended Users:** Professional operators
- **Power Source:** Alternating current (AC) with steady voltage
- **Weight:** Heavy
- **Ground Connection:** Electric supply socket with ground wire connected
- **Lubrication:** Regular lubricating oil needed
- **Cutting Depth Range:** 5mm

Product Usage Instructions

Safety Cautions

- Only professional operators should use the machine.
- Ensure the machine is placed on a balanced and clean surface.
- Connect to the power source correctly with steady voltage.
- Avoid supercharging by not connecting multiple electrical products to one socket.
- Clean and maintain the machine with the power source disconnected.
- Avoid water or liquid entering the machine.

Basic Operation and Adjustment

1. Open the machine and check for any visible issues.
2. Ensure the machine is settled in a proper position.
3. Operate in a suitable environment following special suggestions.

4. Perform basic operations, and adjust sizes, and blades as needed.
5. Regularly replace and adjust cutting blades and sticks for optimal performance.

Operating Instructions

1. Test the machine with an 80gsm paper before regular use.
2. If the paper is not cut completely, adjust the spin blade depth within the range of 5mm.
3. For numerical-control series, set and adjust as per the provided instructions.
4. For the program-control series, follow the adjustment steps on the control panel.
5. In case of emergency, use the emergency stop button after dealing with the situation.

FAQ

Q: Can children use this paper cutter?

- **A:** No, children or non-professional individuals should not operate this machine for safety reasons.

Q: What should I do if the paper is not cut completely?

- **A:** Adjust the spin blade depth within the recommended range of 5mm for optimal cutting results.

FOREWORD

- Thank you for your choice of our Precise Paper Cutting Machine series. We will provide you with good quality and reliable post-sale service. Based on original products, our research and development engineers combined the advantages of products at home and abroad, and finally developed new model of Precise Paper Cutting Machine. It has high technology, a precise construction designation, and an elegant appearance, with the security control part and cutting precision improved. It can be broadly used in printing centers and offices. It is the most ideal cutting machine which well com-plies with the office automation system.
- **Warning:** This kind of machine is allowed to cut printed paper or books or soft leather only. It is forbidden to cut any metal sheets or other hard objects that harm the machine's quality with a 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 material which may splinter



- Must use socket with ground wire connected

- **Note:** To have more usage information on Numerical-controlled Paper Cutting Machines, you have to read this specification carefully first. This will help you improve your working efficiency, realize the machine's property, and have the best cutting effects.

- This will also be good for the maintenance of the machine and can prolong the service life of the machine.

SAFETY CAUTIONS

- According to relevant standards, to avoid accidents 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 the safety cautions below:

SETTLEMENT POSITION

- The weight of this kind of machine is heavy, Please put it balanced and in a clean place.

POWER

- Please connect with the power source correctly by the specification. and the machine will run irregularly if the voltage is too high or too low.
- We suggest you use an alternating current (AC) power source with steady voltage to improve your working efficiency.

GROUND CONNECTION

- For safety, you should use an electric supply socket with a ground wire connected.

SUPERCARGE

- Please don't connect many electrical products to an electric supply socket, because supercharge may cause a fire or an electric shock.

CLEANNES

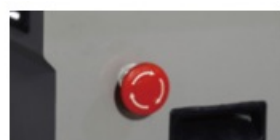
- Before you clean or maintain the machines, you must cut off the electric source and pull out the electric supply socket.

WATERPROOF

- Prevent water or other liquid flow into the inner machine.
- Children or non-professional persons must not operate this machine.
- Do not reach beneath the blade.
- Do not reach cut.



- Do not cut hard materials or materials which may splinter.
- Must use socket with ground wire connected.
- Air safety switch, the non-professional person is not allowed to open. It is very dangerous.
- Under normal usage, add the right amount of lubricating oil to transmission parts and screw mandrel to ensure the machine running properly.
- Emergency stop which is used in an emergency should be pressed after dealing with the emergency.
- Test to run the machine with one piece of 80gsm paper. If the paper can't be cut completely, please fine adjust the spin blade depth (adjustable depth range 5mm) It can be set and adjusted as the picture shows for the numeri-cal-control series.
- If for the program-control series, it can be set and adjusted on the control panel.



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	Machine chassis one set	Specification one piece
Tooling one set	Rubber under chassis four pieces	Certificate one piece
Stick one piece	Screw stem two pieces	Specification one piece

2. Settlement of the machine

- Open the wooden crate, take out the machine casing, and discharge four M8 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 parts of the machine, and clean them;
- Turn on the power to electrify to test running.



*** The main unit should be put on the machine casing correctly:**



3. Operating environment

- The machine should be placed in a clean working environment, kept away from direct sunlight and wind;
- Temperature of the operating environment: 50-85°F, cannot higher than 90°;
- Humidity level of the operating environment: 50-80%;
- Working power source of the machine: 110V±10%; 60HZ; 1.3KW; Connect the ground wire correctly.

4. Special suggestions

- Remember, only one professional operator is allowed to work on the machine;
- When you cut, you should operate buttons with both of your hands; Please don't disassemble the 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 instructions;
- You are not allowed to re-equip the Inner construction and circuit of the machine by yourself.

5. Operating figure

- Turn on the power, and open-air switch, and rotate the emergency stop to make the machine get into a power-up state.
- Then press RESET, and the paper pusher gets running.
- Proper operation is like this: Stand in the middle front of the machine, face to machine, and control the buttons with your left and right fingers, as shown in the picture.



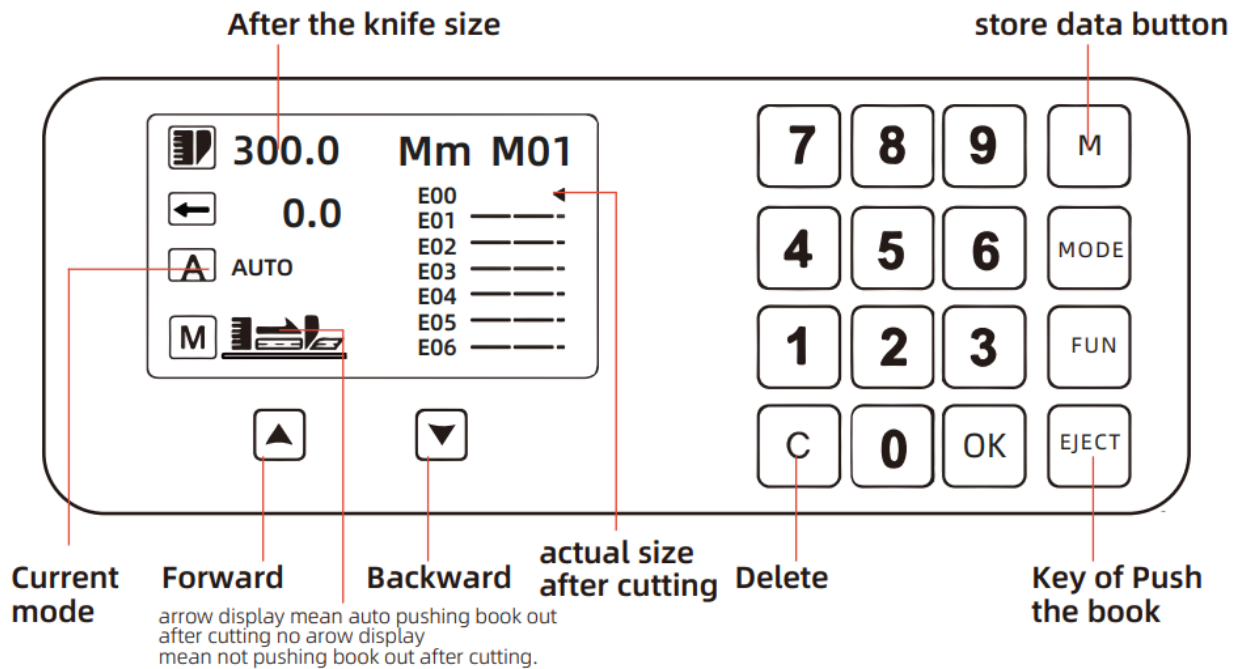
BRIEF INTRODUCTION OF THE PAPER-CUTTING MACHINE

1. Parts description



2. Performance characteristics




- Designed with CE standards, front& back protection covers conform to the safe system;
- Independent pressing and cutting paper design device
- Inclined cutting technology, cut paper completely with thick kind paper;
- Spin cutter with fine adjusting depth curve technology device Guideway and screw rod paper pushing design device Intelligent control, LCD, optimization and updating program, adjustable pressing pressure, multi-term self-check function, malfunction code display function, automatic counting function, and with 99 programs
- Optical cutting line; infrared laser indicating line, high visible

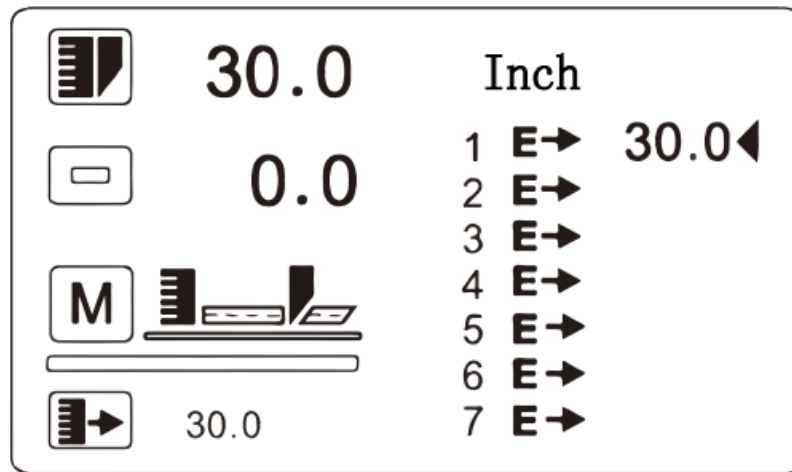


- Press the M key to be out of storage data. Single press the M key without losing, you can modify and select groups in the M area from 0-96 by entering the number in the M area or switching steps up and down until the cursor shines.
- The pusher pushes automatically after pressing the reset button and releases immediately. If press the reset button in 2 seconds, the pusher will be reset automatically.
- Press FUN to switch to manual, automatic, segment. If the present mode is automatic or segmented, you can press up and down to get into manual mode. You can modify data after pressing C.
- Press OK after entering the modify mode to save the data and exit the modification.
- Segment, press the MOD button to switch segment mode.
- There are THREE MODES in the program-control paper cutter.



You Can Press MOD To Change The Mode

1. Manual Mode

- There are two ways to input data in manual mode.
- One is to press the up button  and  the down button to get 285mm.
- This way is too slow to get.
- Don't advise to use this way.
- Another way is to press C to delete present data input 2850 and press. Then the pusher will move to the position of the set size. And press two CUT buttons at the same time to finish cutting.
- If don't want to cut at this moment, lose two hands immediately to make it stop cutting. Press  with two hands, and the blade and clamp will return to the top position Press M, when the cursor is in the condition of mm, mm can be converted to inch.



2. Automatic

1. Put the books or papers right to cut, then make the books or books lean to the left front guide.
2. Make it cut after confirming the cut size.
 - Press two CUT buttons at the same time to finish cutting of first set size. Then the pusher will move to the position of the next set size.
 - Cut after the pusher is to stop moving.
 - After finishing 7 cuts, the pusher will go back to the first set size automatically.
3. Hit M when the cursor stops at M01. Press   to going switch data from 0 to 96. Then press OK to show all the set group counts needed.

3. Segment mode

1. Press C, show a size set state, then put cut size. Press OK to get the next cut size and the cursor moves to next. (First cut size is the whole size of the paper, second cut size is segment size, and each out is the same size).
2. Put the books or papers right to cut, then make the books or books lean to the left front guide.
3. Start to cut after confirming the size. Press two CUT buttons to finish cutting. The pusher will move forward with uniform pushing paper automatically. Then uniform cutting, every cut is with same size.

Parts description

Model	4606
Max. Cutting Width	18-1 /8" (460 mm)
Min. Cutting Width	1- 9 /16" (40 mm)
Cutting Thickness	2 -3 /8" (60 mm)
Paper Pressing Structure	Automation
Paper Pushing Mode	Automation
Display mode	LCD
Safety Protection	Infrared photoelectric protection
Power Supply	110V ±10% 60HZ 1.3 kw
Machine Size(W*L*H)	680 mm × 825 mm × 1210 mm 26.5 " L × 32.5 " W × 47.5 " H
Net Weight	286lb(130kg)

BASIC OPERATION AND ADJUSTMENT

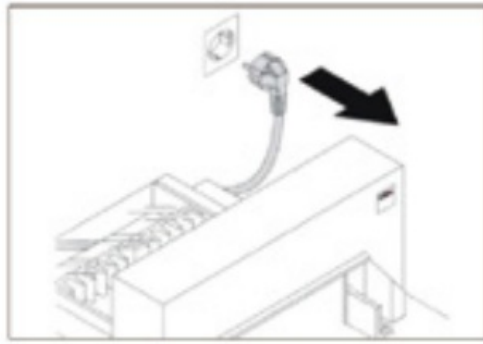
Basic Operations

- Before starting the preparation work, check whether there are other items on the machine, and tidy up;
- Plug the power plug into the socket of AC110V;
- Turn the electrical protection switch to the "ON" position, and the cutting line of the knife light is bright, indicating that it entered the normal working state;
- Push into the cut paper or book, placed on the left side and the ruler level;
- Rotate the push paper hand wheel, adjust to the size of the need to cut, the book and push paper baffle against the flat;
- Press the cutting button with both hands, and the paper press starts to press the paper automatically.
- If any size problem is found, release the cutting button with both hands and press the RESET button.
- The cutter and the paper press will return automatically.



Size adjusting

- If the cut size is not the same as shown size, please turn off the machine. Then turn on the machine and press the reset button.
- If the problem is not solved by the above operation. Please do more as the following operation. Cut off the power, and remove the back plate which is under the pusher. Then check whether any things are blocking the driving screw rod.
- Check whether the stepping motor is normal, remove the front cover plate, and check whether the synchronous pulley and synchronous belt are fixed normally.
- Adjust the support chip in the nut, move it forward and backwards until the show size matches with cut size. Then tighten the screw.



Cutting Blade Adjustment

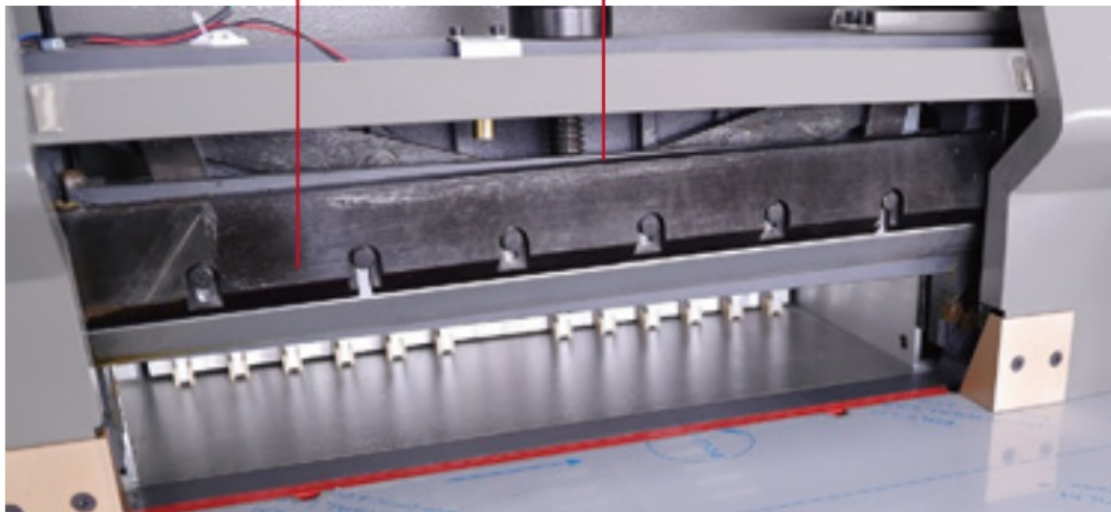
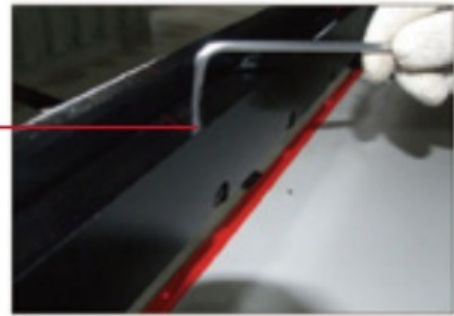
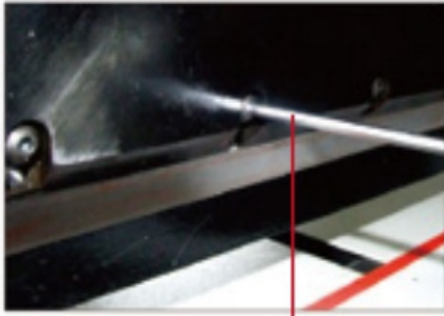
- First of all, fine adjust the cutting blade depthT adjust a depth range of about 5mm)or change the side of the cutting stick.



- If the last paper still can not be cut completely after fine adjustment of the cutting blade depth. Adjust the balanced screw of the cutting blade depth once more. Unscrew the screw-of two sides from the upper cover. Then remove the upper cover.



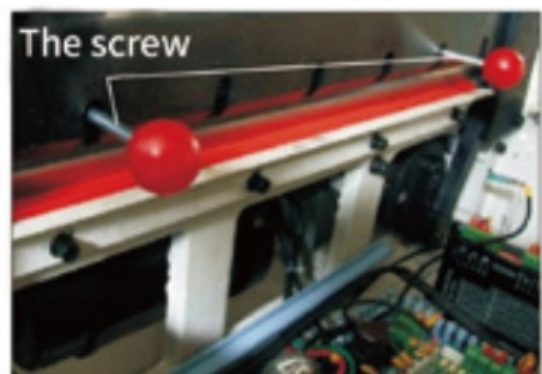
- Disassemble 7 retaining M6 screws on the blade carrier which fixed blade. Adjust the depth of blade to make the paper cut completely until the blade cuts into the cutting stick about 0.3-0.5 mm;



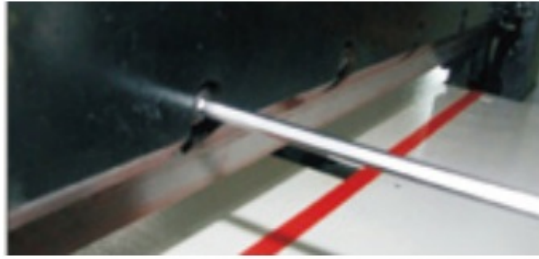
- Tighten up the fastened screws on the blade carrier. Cover up and make it fasten. Choose one piece of paper to have a trial cut. If it can not be cut completely, you can re-adjust according to the above processes.

Blade replacement (please follow the steps carefully)

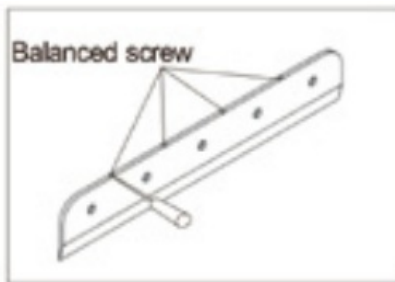
- Open the upper cover;
- Loosen and remove the locking screws with openings on the tool holder, screw the two disassembly screws into the opening screw holes in a clockwise direction, and fix and lock them;



- Remove the other locking screws on the tool rest;
- Turn the two disassembly screws counter-clockwise for half a circle and then take out the blade downward.
- Put the blade in the knife box with gloves or cloth to avoid scratches.

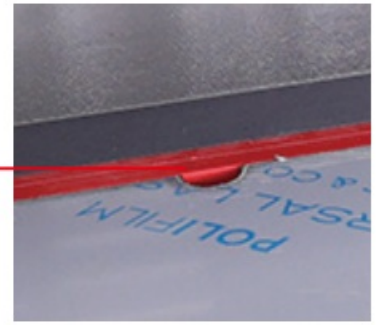
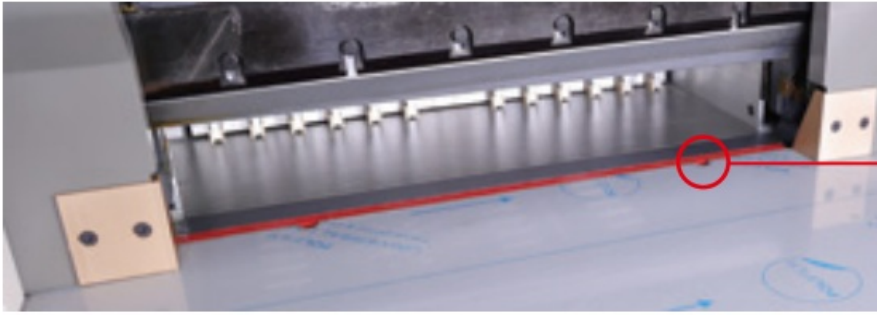


- Be more careful when taking a new blade out. The blade cutter point must not be to the body.
- When you install the blade, you should screw up the screw stems. Set the blade on the blade carrier, use a screw strip to fasten and fix up, then adjust according to the cutting depth adjustment method;



- Blade sharpening needs to be done in a professional factory so that to ensure quality.
- **Note:** Dull blade can't cut paper correctly. Also, the blade will become dull if it always cuts thick paper or pasteboard.
- If cutting quality and accuracy can't meet the 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 the blade, you must operate according to the steps of the blade change instructions.
- **Note:** To avoid any injury, you must be the most careful when you change the blade.

Cutting stick adjustment

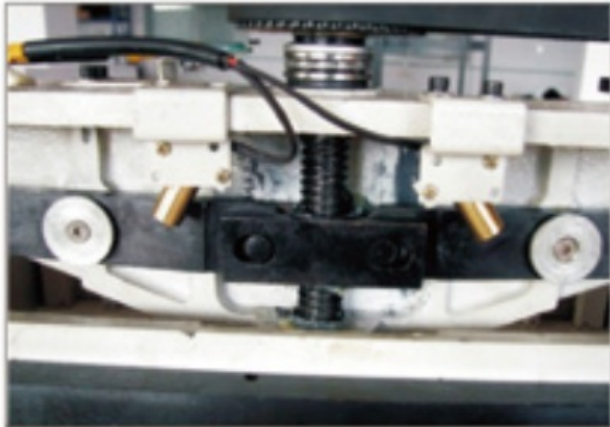
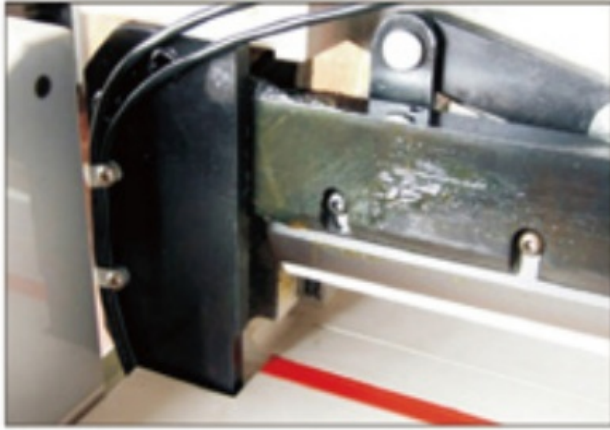


- One cutting stick can be used with 4 surfaces, and each surface can be cut two times.
- One time can be cut many cuts. When the slash on the shim is too deep, you should adjust or change the cutting stick;
- The knife shim can be taken out by screw, and should be assembled onto the cutting desk flatly when it needs to be set back;
- Knife shim should lean to the left side, then re-push the front brace plate;
- **Note:** when the blade is replaced, the blade itself must also be adjusted. If the blade eats too deep, not only "easy to damage the blade, but also makes the blade accelerated wear.

LUBRICATION AND MAINTENANCE

Lubrication

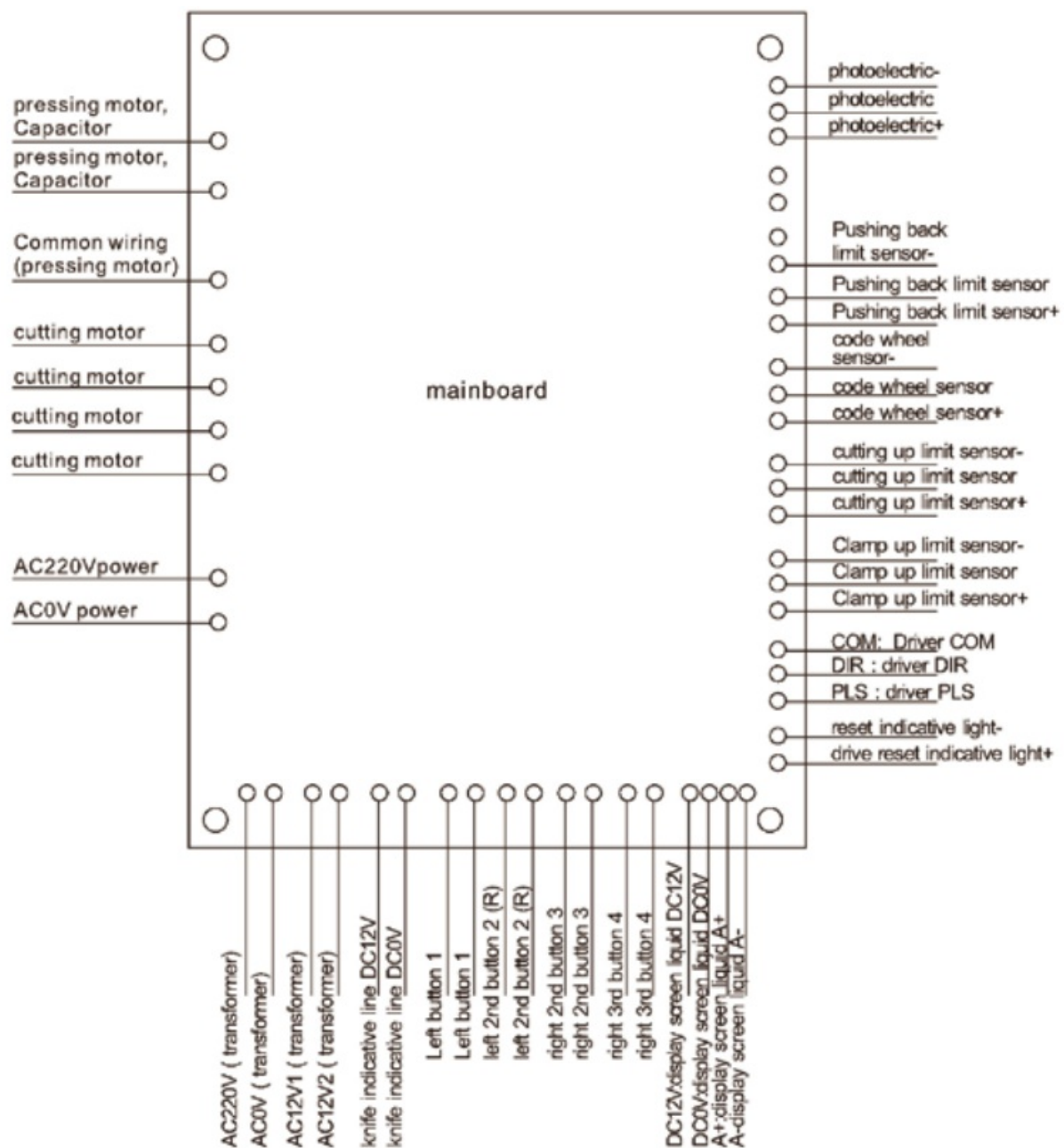
- The machine should open the cover plate, check and clean, tighten the parts, and lubricate the moving parts once a month.
- Please be careful to avoid lubricating oil on electrical circuits or electronic components when refueling. To avoid breakdowns.



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.

Appended drawings




COMMON ERRORAND ELIMINATION

Error	Phenomena	Elimination method
Irregular paper-cutting or too big difference	The cut paper has one side wide and the other side narrow, or has a big deviation in dimensions	Loose firm screw, and use a ruler to adjust the angle between the measuring scale and the 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. The circuit main panel is damaged
LCD can't display	No power and buttons are invalid	1. Check whether power is normal or not 2. Check transformer is normal or not
LCD or display the wrong	The normal button of the power source is invalid.	Check display board, mainboard, electronic circuit part
Digital-controlled circuit damaged	Paper-pushing part is not working	1. Check stepping motor, driver 2. Check whether the main board is damaged.
Alarm for displaying F-1	The button is invalid and the cutting action stops	Check the flash Check the control panel
Alarm for displaying F-2	Cut normally, but the clamp can't return to the original position.	1. Check press up limit sensor 2. Check the mainboard
Alarm for displaying F-3	Cut normally, clamp is not coming down normally	Check code wheel sensor near pressing motor Check the mainboard
Alarm for displaying F-4	cut normally, the cutting blade return's original position abnormally	Check up the limit sensor of the blade carrier Check the mainboard
Alarm for displaying F-5	Cut normally, but the paper pusher can't limit and adjust.	Check the pushing back limit and adjust the sensor Check the mainboard

- When the hand and books are put in the working area, The blade and clamp won't work. Any button is valid.

Documents / Resources

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