



MAKSIWA[®]

CBC.E

PORTABLE EDGE BANDER

INSTRUCTION MANUAL



ATTENTION: READ THIS MANUAL BEFORE USING YOUR MACHINE.

INSTRUCTION MANUAL

Important information you should know:

- The images in this manual are illustrative and are meant to demonstrate the correct operation of your product, there may be small changes in relation to the images.



ALWAYS USE PROPER PROTECTIVE EQUIPMENTS TO OPERATE THIS MACHINE.

Important Safety Instructions



WARNING: When working with machines, always follow the safety precautions to reduce the risk of fire, electric shock and injury, including the following:

READ ALL INSTRUCTIONS



CAUTION: WHEN DOING MAINTENANCE, REPLACE ONLY WITH IDENTICAL PARTS.

Repair or replace damaged wiring.

SAFETY INSTRUCTIONS FOR ALL EQUIPMENTS

- **Keep a clean work surface.** Cluttered areas and work surfaces are invite accidents.
- **Do not use the Edgebander in hazardous environments.** Do not use machine in damp or wet locations or exposed to rain. Keep well-lit work area.
- **Keep children away.** Visitors should be kept safe distance from work area.
- **Make the workplace childproof** making use of padlocks, master keys or removing the ignition key.
- **Do not force tool.** It will perform the job better and safer for the intended use.
- **Use appropriate equipment.** Do not wear loose clothing, gloves, chains, rings, bracelets or other accessories that could become caught in moving parts.
- **It is recommended** wearing shoes with non-slip soles. Use protection for the hair in order to hold them.
- **Always wear safety glasses.** Also use hearing protection.
- **Do not overreach on the equipment.** Maintain balance and feet in comfortable position at all times.

- **Keep all tools in order.** Keep tools sharp and clean for better and safer performance. Follow the instructions for lubricating and changing accessories.
- **Unplug the machine** before servicing or changing accessories such as scissors, cutters etc.
- **Reduce the risk of unintentional starting.** Ensure that the switch is in the "OFF" position (off) before connecting the wire to the plug.
- **Use recommended accessories.** See the instruction manual to check recommended accessories. Improper use of accessories may cause risk of injury to persons.
- **Never step on the machine.** May occur serious accident if the machine is dented or if parts are accidentally touched.
- **Check for damaged parts.** Before continuing the use of Edgebander, a guard or other part that is damaged should be examined carefully to determine its proper operation and perform its function properly. Check the alignment of moving parts, breakage of parts, mounting and any other condition that may affect its operation. Any part that is damaged should be repaired or replaced immediately. Do not use the tool if the switch does not turn on or off.
- **Never leave a running tool unattended.** Turn off the ignition key.
- **The engine of this machine can emit sparks,** and explode flammable gases.
- **Extension cables.** Make sure your extension cord is in good condition. When using an extension, be sure of their ability to transmit the electrical current used by your product. An undersized cord will cause drop in voltage resulting in loss of power and overheating. The following table shows the correct size to be used depending on the cable diameter and amperage rate. If in doubt, use a cable with a higher level of capacity. **IMPORTANT:** Do not use an extension cord with length above 20 meters

Cable 2 wires		Cabo 3 wires	
Ø (mm ²)	Amperage	Ø (mm ²)	Amperage
0,5	9	0,5	8
1,0	13	1,0	12
1,5	16,5	1,5	15
2,5	23	2,5	20

Additional safety rules for Edgebander:



CAUTION: FAILURE TO ATTEND THESE WARNINGS MAY RESULT IN PERSONAL INJURY AND SERIOUS DAMAGE TO THE MACHINE.

- **Protect** the electric power supply line with at least a 20 amp fuse or a circuit breaker switch.
- **Make sure** that the advance is turning in the right direction.
- **Make sure** that the knobs and screws are properly tightened and safe before starting any operation.
- **Keep** sharp tools.
- **Keep** vents free of chips or dirt engines.
- **Keep** hands away from moving or sharp parts.
- **Turn off the machine** and unplug the power cord before maintenance or adjustments of the tool.
- **Support** long pieces with a clamping device for wood.
- **Do not attempt** to operate the machine in another voltage beyond designated.
- **Do not use** larger or smaller tools than recommended.
- **Do not apply** lubricant to the tools during use.
- **Do not operate** without some parts of the machine.
- **Do not put your hands** less than 4in from the shaft.
- **Do not put your hands** in closed parts of the machine unless it is turned off and unplugged.
- **Do not use** lubricants or cleaners (particularly sprays and aerosols) in the vicinity of the plastic guard. The polycarbonate material used in the guard is sensitive to certain chemicals.

WARNING: Some dust created by the act of sanding, cutting, grinding, drilling and other construction-related activities contains chemicals that can cause cancer, birth defects or other reproductive harm. Some examples of these products are: Lead-based paint; crystal silica bricks, concrete and other masonry products; and arsenic and chromium from chemically treated wood.



CAUTION: Do not connect the unit to the power outlet until all instructions have been read and understood. Always tighten the adjustment tabs before using the machine. Think: "I can prevent accidents".

Do not operate the machine unless the guards are in their proper places. Always use protective goggles.

Electrical connection

The Edgebander CBC.E MAKSIWA has engine 1-phase 110V. To avoid burning risk, check the voltage of your outlet before starting the machine. If necessary make the change of your power with the help of a specialist. Ensure that your power supply is in accordance with the designated on the board. A 10% decrease in voltage or more will cause loss of power and overheating. All equipment MAKSIWA are tested at the factory. If this machine does not work, check the electricity supply. Check the compatibility of your outlet and plug the machine. Do not do patches and adaptations. To avoid electrical shock and damage to the equipment always ground the machine.

Familiarization

Put the machine on a smooth and flat surface. Check the pictures and watch the descriptions to familiarize yourself with its components. The next section will deal with the necessary adjustments for the proper functioning of the machine. You should know these parts and will need to know where they are.

Especifications

Power	1.500 W
Tape Thickness	0,3 a 2,0 mm
Max. Tape Width	80 mm (3")
Min. Workpiece Length	120 mm (4 3/4")
Feeder Speed	5,5 m/min (18 ft/min)
Temperature Range	130°C to 180°C (266°F to 356°F)
Voltage	110V – 1 phase
Net Weight	52 Kg (115 pounds)

Transport and Installation



By ergonomic issues, this equipment must be carried by at least two people, holding by the handles located on the sides of the box.

For packaging purposes, the machine is not fully assembled. If you notice any damage caused by transportation, while you open the package, notify your supplier immediately. Do not operate the machine.



Dispose the packaging in a friendly way with the environment.

The Edgebander is designed to operate indoors and should be placed on a firm, stable and level surface.

CAUTION: To prevent the machine from moving and causing lack of precision, ensure that the base where it is supported is not uneven.

UNPACKING AND ASSEMBLY

UNPACKING

Due to modern mass production techniques, it is unlikely that Edgebander CBC.E MAKSIWA is faulty or have parts missing. If you find anything wrong, do not use the machine until the parts are replaced or the fault is corrected. By doing this you are avoiding serious injury.

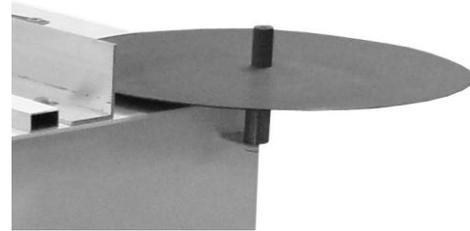
1. You will receive your machine packed.
2. Remove the machine from the packed with all the parts and accessories that go with it. For ease assembly, place it on a bench, turning the machine aside to be able to mount the support legs. After opening the support legs fix the beams with 8 screws and 8 nuts that came together with your machine, as shown below:



3. Place the adjustable hexagonal feet and put the machine on the floor. Set the positioning of the feet until the machine is level, then tighten the nuts next to the plate, as shown below:



4. Remove the packing materials around the parts and take all the loose packing pieces.
5. Mount tape support, position the pin tape support on the rear right of the machine, as shown below.



6. Connect the plug in your power supply.



WARNING: TURN THE MACHINE IN 110V SINGLE PHASE.

- If will need a extension Cord, utilize a cable with 3 wires with 1,5mm² (or more).

ADJUSTMENTS

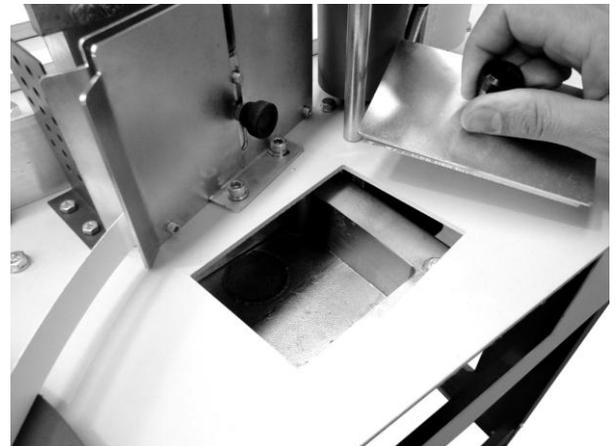
The following shown adjustments must be made before using your Edgebander CBC.E for the first time or when some kind of change is made as thick tape or thickness of the wood.



CAUTION: ANY ADJUSTMENT NEEDS TO BE MADE WITH THE MACHINE OFF AND DE-ENERGIZED (unplugged).

1. GLUE

The glue to be used in your Edgebander CBC.E MAKSIWA is granulated glue type Hot Melt. Always check the amount of glue on your machine. Because of factory tests, their CBC.E can go with a certain amount of glue.



If necessary insert adequate glue to the color of panel wood and tape that you are using.

Do not put too much glue, because when it melt and during operation of the machine may overflow and cause leaks. Let also not miss glue in the glue pot because this can cause failures in the collage.

NOTE: The brand and quality of the glue is fundamental. The MAKSIWA recommends glues that work in the range of 160°C to 190°C. On top of that, high temperature and melt glues can damage the tape.

GLUE EXCHANGE: If you change the color of your tape or the color of the wood panel, you may change the glue on your Edgebander. To change the glue follow these steps, but first read the rest of this manual to be familiar with all operations:

- Turn on the machine and set the temperature controller to 70°C (158°F) (see this manual to program the controller).
- At this temperature, the glue is not too hot (soft) or too cold (hard). So you can remove the entire glue without much difficulty.
- Use a trowel or piece of wood, avoiding scrape the walls of collared, damaging the same.
- After removing all the glue, put the new glue.
- Set the temperature controller according to the specification of the glue again.

GLUE INDICATIONS: With this machine we recommend the following glue brands:

- Jowat - White color. (ref. 282.21)
- Jowat - Natura Color. (ref. 282.20)
- Kleiberit- Ivory color. (ref. 788.3/20)
- Kleiberit- White color. (ref. 788.3/10)

2. TAPE (EDGE BAND)

The Edgebander CBC.E MAKSIWA is designed to work with PVC tape, ABS, paper and wood that do not have glue, only straight parts. Use tapes approximately 4mm wider than the wood panel.

It is necessary to regulate the Edgebander according to the thickness of the tape. That is, when changing the thickness of the tape, it is necessary to adjust the machine again. For this setting, follow these steps:

- Cut a piece of tape to be used.

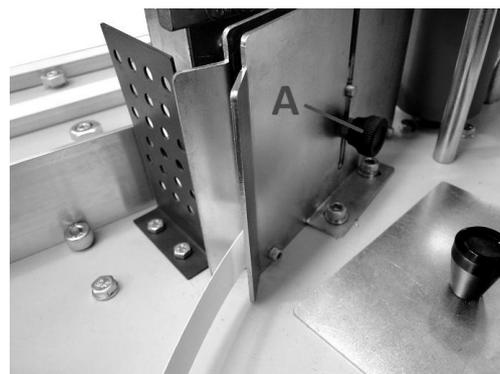
- Loosen (without removing) the two screws shown in the following figure, using a wrench 13:



- Insert the cut piece of tape behind the aluminum guide, between the guide and the Allen screws, according to the same figure above.
- Push the guide against the tape, without forcing much so that the tape does not bend.
- Tighten the screws. The distance of the guide is already adjusted according to the thickness of the tape. Do not remove the piece of tape.
- With a piece of wood, make sure the guide is aligned with the glue axis. To make this movement push the wood against the aluminum guides entry sliding to contact the glue axis. The glue axis must move slightly (right of 0.5 to 1 mm) so that, when operating, passes the glue without hitting brusquely in the glue axis. Just touch lightly, passing the glue on the panel.

TAPE PLACEMENT: To place your tape correctly, follow these steps:

- Put the tape roll on the tape support previously installed that already came with the machine.
- Insert the tape into the tape guide as shown in the figure below, adjusting the knob **A**, so that the stops only guide the tape at its height, without locking it. Make sure, pulling and pushing the tape, you can move freely.



- Position the tape to the zero point, in other words, at the point where the wood touches the tape, taking it with a little left over to be cutted.
- Your tape is regulated.

OPERATIONS

The operations made by the Edgebander CBC.E, as well as any other machine, can pose risks to the operator if the instructions in this section are not taken into account. These instructions are written with the understanding that the operator has the knowledge and skills necessary to operate this machine. If at any time you feel difficulty performing any operation, stop using the machine. If you are an inexperienced operator, we recommend that you read books, technical papers, or seeks training from an experienced operator before performing any operation unknown. The machine must operate with all the protections and security systems that comes standard.

Above all, your safety must come first.

1. STARTING AND CONTROL

To turn on your CBC.E MAKSIWA proceed as follows:

- Connect the previously installed outlet at **110V single phase** supply.
- On the control panel you will find different commands.

Get to know each of them and their functions:



1. Turn the main switch (1). This key energizes the machine's panel, without turning it on.
2. Emergency Button (2) (red mushroom): When triggered, instantly shuts down all machine controls. To release it, just rotate clockwise.

3. On Button (3) (green): This button turns the machine, activates other commands and starts the process of heating the glue. If the machine does not turn on and the light does not turn on when you press this button, make sure the main switch has been turned on and the emergency button is not activated.

4. Off Button (4) (red): This button turns off the machine by turning off all the functions, including heating the glue.

5. Feeder Switch (5): This button activates the feeder (rubber and glue axis). But this button will only be released after the glue reaches the set temperature.

6. Temperature controller (6): It has two displays - the upper display indicates the actual temperature of the glue (red numbers) and the lower display shows the temperature adjustable (green in numbers) - and the following keys: SET - LEFT ARROW - DOWN ARROW - UP ARROW.

Follow these instructions to change the temperature controller.

- Turn on the power button 3 (green).
- Select the temperature according to the specification of the glue. To change the working temperature press the LEFT ARROW key, making it possible to change parameters (press this button until the digit you want to change). Then press the DOWN ARROW or UP ARROW keys to change the temperature. At the end, press the SET button, which will save the change, continuing the temperature change.

NOTE: The feeder process is activated only when the temperature is below 10°C or 10°C above the set temperature. Outside this range, the process is disabled.

NOTE: The CBC.E temperature controller is programmable to a maximum temperature of 220°C (428°F), for near and above this temperature MAKSIWA do not recommended work with glues for high temperature because they can melt the tape.

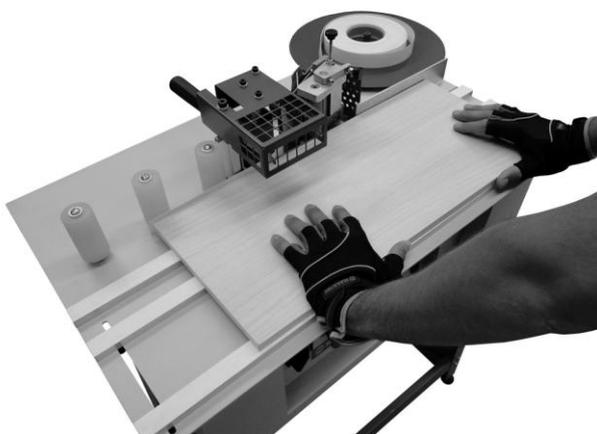
- Once connected and adjusted with the temperature, CBC.E takes some 20 to 30 minutes to reach set temperature, starting from room temperature.
- Upon reaching the set temperature, the feeder switch 5 is ready to be turned on, activating the axes.

Your Edgebander is ready to start the first tests. At this point it is important to use pieces of wood just for testing, until you are acquainted with all functions of the machine.

FIRST TESTS

Just skip this point if you read the entire manual and has the safety to operate the equipment. If necessary, contact the manufacturer. With all adjustments made, the set and the correct working temperature machine, you can start the first working tests. To do this, use pieces of wood that will not be used (flaps) to ensure full confidence operator / machine.

- To start, hold the wood panel pushing against the aluminum guides and directing it against the feeder axis. See figure below:



CAUTION. Crushing and cutting risk. Do not bring your hands within 10cm (4") manual cutter.

Do not wear loose clothing or gloves when operating this equipment.

In case the wood is too long, support on the sides of the machine to prevent warping it of.

NOTE: You will notice that the CBC.E can cut the tape close to the wood panel, allowing a better finish edges.



GLUE THICKNESS

According to the first tests you will find an ideal amount of glue that must pass the panel. In case you notice that the tape is easily released from the wood, the cause may be lack of glue. Or if not, there may be glue excess, with glue excess on the sides of the tape. To adjust the glue thickness, do the following:

- On the glue axis, locate and loosen the **A** screw on the glue axis, as the following figure:



- If you want to decrease the glue thickness, slightly rotate the **B** knob counter-clockwise. If you want to increase the thickness of glue, turn the knob **B** clockwise. Note that small changes (approximately 1/4 turn) have already cause a considerable change in thickness of the glue. Find the optimum amount, which can vary according to the type and brand tape, glue and the temperature being worked. It is normal after the end of the process small quantities of glue are left around the tape. If this happens, remove this glue excess with a cloth with paint thinner, kerosene or even with a stylus, being careful not to scratch the wood or the tape.

MAINTENANCE



IMPORTANT: All maintenance or cleaning on the machine must be made with the same **OFF** and **unplugged** from the outlet to prevent accidental discharges.

GENERAL

Periodic maintenance on your Edgebander CBC.E MAKSIWA will ensure optimum performance. Make it a habit to inspect your edgebander every time you use it.

This section covers the service adjustments or common procedures that may need to be made during the life of your machine.

Verify if the following conditions for repair or replacement are needed:

- Loosen screws.
- Switches or buttons damaged.
- Cables, plugs or sockets worn or damaged.
- Transmission chain damaged.
- Dirt Glue axis or glue pot. **The dust coming from saw machines can lock the axis. Keep your CBC.E as distantly as possible of saw machines.**
- Any other condition that could adversely affect the safe operation of the equipment.

CLEANING

Clean your Edgebander CBC.E is relatively easy. Use a vacuum cleaner to remove the tape remains, and dusting with a dry cloth. If there is any glue residue use a resin remover and a clean cloth to remove it.

Keep the table clean after each use.

Periodically (and always with the machine off) it is important to do all the cleaning of the machine, removing glue residue that could affect the proper functioning of the equipment. Clean the guides, the axes and the main cutter carefully.

To maintain quality of the cutter, it is very important to keep the scissors free of glue residue or tape. To clean it, use a cloth with thinner or kerosene, gently wipe the cutter, removing all the glue residue.

LUBRIFICATION

Once all bearings are shielded and have permanent lubrication, just leave them like this until it is need to be replaced. Do not lubricate them. For the other items on this machine, an occasional application of micro-electric machine oil is needed in the hinge that moves the glue pot and manual cutter scissors.

Before lubricating, try cleaning the areas to be lubricated, eliminating the accumulation of dirt.

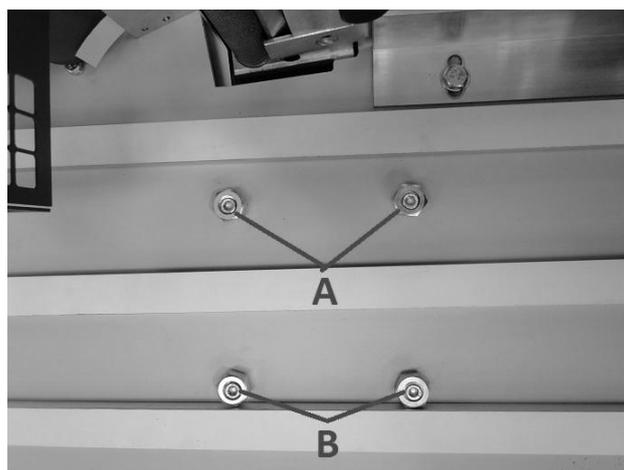
BRACKET

Due to transport and even during use, it may be that the glue axis turn out of bracket.

The fact that the glue axis is out of bracket causes incorrect application of glue in the wood paneling, applying impartial glue or not even applying any glue on the wood.

If the glue axis of your Edgebander is out of the bracket, you can regulate it easily by following these steps:

- Clean the glue axis, removing glue excess. For this heat the machine until melt point of the glue, facilitating the glue axis cleaning. Once the glue is melted, turn off the machine, stopping the axis in order to clean it and check the bracket.
- Support the side of a bracket on the table tabs, leaning against the glue axis.
- If any point of the bracket face is not touching the glue axis, you must do the following setting:
 - If the top of the axis is tilted to the back of the machine, loosen the Allen screws 5mm at point **B** (see figure below) and press (about 1/4 turn) the hex bolts also from the point **B**. Check the bracket again. If it is corrected, tighten the Allen screws.
 - If the top of the axis is tilted to the front of the machine, loosen the Allen screws at point **A** and tighten (about 1/4 turn) the hex screws. Check out the bracket again. If it is corrected, tighten the Allen screws; if not, repeat the procedure.



MAINTENANCE SCHEDULE

Daily:

- Aspirate all dust on top and around the machine.
- Clean the guides, rubberized axis and manual cutter, freeing of all glue residue.
- Check the level of glue on the glue pot.

Weekly:

- Clean dust accumulation inside the back cover, around the glue axis and glue pot of the machine.
- Check for wear or damage to the buttons and cord.
- Check wear manual cutters.

ELECTRIC PANEL



NEVER MOVE OR DO MAINTENANCE ON THE ELECTRIC PANEL WITH MACHINE ON OR CONNECTED ON THE POWER SUPPLY. LOOK FOR SERVICE AUTHORIZED MAKSIWA WHEN YOU NEED TO HANDLE THE ELECTRIC PANEL.

Attached follows the wiring diagram of Edgebander CBC.E for possible maintenance.

TECHNICAL ASSISTANCE

WARRANTY TERM

The MAKSIWA assures the owner of his equipment, identified by the date of issue of the purchase invoice, a warranty of one (1) year, as follows:

1. The warranty period begins on the date of the commercial invoice.
2. Within the warranty period, the hand labor and the components replaced by manufacturing defect will be provided for free as long as duly proved by Maksiwa Service.
3. Third-party manufacturing equipment that makes up the MAKSIWA equipment (such as motors, electrical equipment, belts etc.) are subject to the terms and conditions of warranty of their respective manufacturers.
4. In case of exchange for the warranty, please return the defective part for the manufacturer urgently.
5. Costs and risks of transport will be by the machine owner.
6. Equipment installation expenses and workplace adaptations are due to the machine owner.
7. When you notice any defect or malfunction when receiving the equipment, get in touch immediately with the manufacturer or resale. Do not turn it on.
8. Not included in this warranty technical visits aimed at cleaning or adjustments caused by wear, resulting from normal use of the equipment.

9. The warranty does not cover problems caused by mistreatment, carelessness, misuse or inappropriate use of the functions designed for this equipment in this manual, as well as poorly executed operations by untrained operators to operate it.

10. The MAKSIWA is not responsible for lost productivity, direct or indirect damages caused to the owner of the equipment or to third parties, or any other expense, including lost profits.

11. Even under warranty, you may lose its validity as follows:

- a) Application of non-original components;
- b) Alteration of its original features;
- c) Lack of proper maintenance;
- d) Improper use of the equipment;
- e) Change in equipment or electronic connections;
- f) Damage caused by mechanical shock or exposure to unsuitable conditions (humidity, salt spray, corrosive agents, etc.);
- g) Damage caused by bad weather (floods, flooding, lightning, power outages etc.).

For your safety, trust the repairs, maintenance and adjustments (including inspection and replacement) for technical assistance recommended by MAKSIWA, always use genuine spare parts and accessories, reassembling to its original Edgebander the same way.

Manufactured by:
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SOLUTION GUIDE

PROBLEM	CAUSE	SOLUTION
Machine is not turn on	Plug disconnected or connected improperly.	Check the connection and the voltage of your power supply.
	Main switch off.	Turn on the Main switch.
	ON switch off.	Turn on the ON switch (green).
	Emergency switch activated.	Rotate clockwise to release.
	Circuit breaker off.	Check the voltage of your Power supply (110V) and turn on the breaker inside of panel.
The glue is not heating	Temperature Controller unregulated.	Adjust the temperature settings.
	Burned resistance.	Contact the Maksiwa Service to change the resistance.
The tape is not gluing	The glue is not at the correct temperature.	Check the glue temperature specification.
	Missing glue at the glue axis.	Complete the glue pot with more glue.
	The glue is inadequate to this equipment.	Check the directions about glue brands in this manual.
	The thickness of the glue is incorrect.	Adjust the thickness of the glue (check this manual).
	The glue axis is out of bracket (square).	Adjust the bracket of the glue axis (check this manual).
	The edge of the panel is out of square.	Check the square of your panelyou're your panel saw.