

Norimaki Cutter for Commercial Use

MAKI CUTTER ASM260A

Operation Manual

Thank you for purchasing our MAKI CUTTER ASM260A.

- Before using this machine, please read this operation manual for instructions and proper operation.
- This machine is for cutting Norimaki only.
Do not use for any other purposes.
- Use this machine under surveillance of an expert who understands the functions and operation procedure.
Improper handling may cause injury, failure and breakage.
- Keep this manual in an easily accessible location for immediate references.

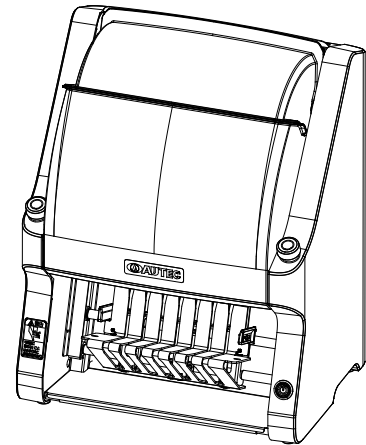


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Safety Precautions (Read this instruction before using.)

To prevent harm to the user and other people or damage to property, the following instructions must be observed.

- Harm and damage that may arise due to failure to observe these instructions and improper use are identified by the following caution labels, depending on their severity.

 WARNING	Improper handling may cause death or serious injuries to the operator.
 CAUTION	Improper handling may cause injury to the operator or damage to property.

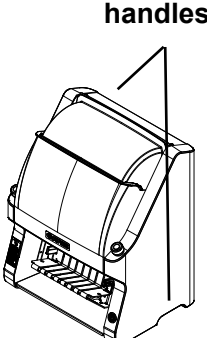
- Cautions that must be observed are identified by the following symbols:

 The symbol indicates the need for your attention. Detail of caution is shown in or near the symbol.	 General precaution  Electric shock  High temperature
 The symbol indicates a prohibited action. Detail of prohibited action is shown in or near the symbol.	 General prohibition  Do not touch  Do not touch with wet hands  Do not expose to water  Do not disassemble
 The symbol indicates a strongly advisable action or direction. Detail of advisable action is shown in or near the symbol.	 Connect a ground wire  Unplug the power cord  See the attached manual

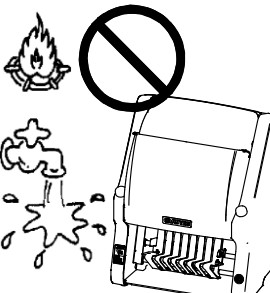
WARNING

■ Installation

- This machine weighs about 37.4 lbs. (17 kg).
- Place it on a flat stable surface.
- Do not bang or drop it during installation.
- Please hold and take the handles of down both side while carrying machine.



Use this machine in a location with an ambient temperature between 32°F and 104°F (0°C and 40°C) and a humidity of 85% or less, where is no frost and no condensation. Do not install the product in a location exposed to water, fire, corrosive gases, direct sunlight, dust and vibration.

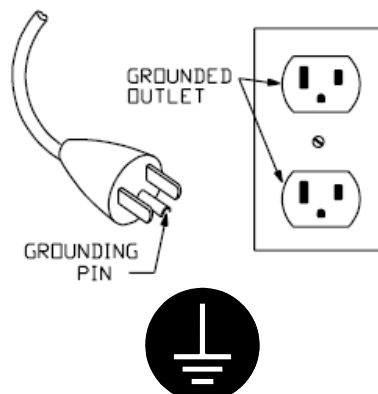


⚠ WARNING

■ Power Cord and Plug

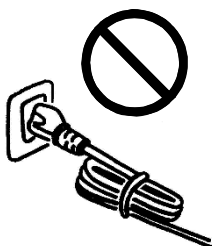
Be sure to connect the ground wire to prevent any risk of electric shock.

There is a risk of electric shock due to damage or a short circuit of the machine. Please ask the delivery agent from whom you purchased the machine to ensure it is grounded. It is prohibited to attach the grounding wire to a gas pipe, water pipe, telephone, or lightning rod. When changing the machine's location, please make sure to properly ground the machine.



Do not use the machine at any voltage other than AC110V-120V (50/60 Hz).

- Keep the **Power Cord** unbundled and do not fix it with pins or nails.
- Do not put too many plugs in one outlet.
- Do not use more other appliances on same outlet, even when using an extension cord or surge protector.



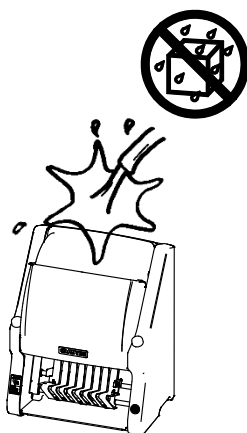
- Hold the **Power Plug** to unplug. Do not pull the **Power Cord**.

- Do not place any heavy objects on the **Power Cord**.
- Do not pinch or modify the **Power Cord** in any way.
- Damaged Cord and Plug may cause electric shock or fire.
- When the machine is not used, turn it OFF and unplug the **Power Cord**.



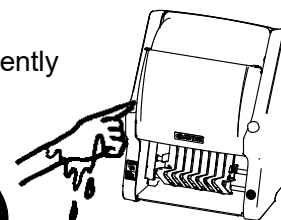
Never expose to water

Never splash water on the Main Unit. It may cause malfunction, electric shock or short circuit.



Do not touch with wet hands

- Never touch the **Power Plug**, the **Power Cord** and **Switches** with wet hands.
- Touch **Switches** gently without excessive force.





WARNING

■ Use and handling

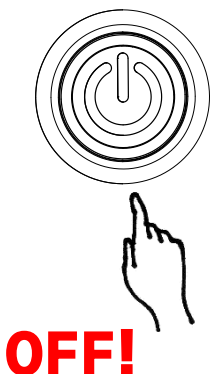
Be sure to read the operation manual!

Before using the machine, Please read the operation manual and be supervised by a one trained in its function and operation procedure.



Turn off the power supply when attaching or detaching parts.

Before removing or assembling any parts, ensure the **Power Switch** is turned OFF and unplug the **Power Plug** from a wall outlet. Turn on the **Power Switch** after making completely sure that it is safe to operate the machine.

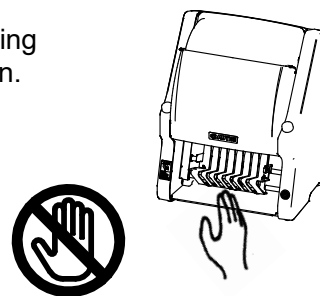


Single operator

If two or more people operate the machine together, the moving parts may catch hands or fingers. If this happens, it may cause serious injury such as loss of fingers.

Never touch the moving components

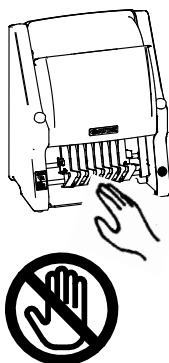
Never touch the moving parts during operation.



Never insert your hands into the opening under the Front Cover.

When using this machine, for hazard prevention, never insert your hands into the opening under the **Front Cover** except when putting Norimaki on the **Cut Base**.

Touching the cutting edge of the **Cutter Blade** may cause serious injury such as loss of fingers.



Never Disassemble

Never disassemble or modify the Main Unit. It may cause malfunction, short circuit or electric shock.

(Except when removing washable parts).



■ Handling of Cutter Blades

Do not touch Cutter Blade

This machine has **Cutter Blades** for cutting use. Be very careful when handling during operation and cleaning. Do not touch the cutting edge of the **Cutter Blade**.

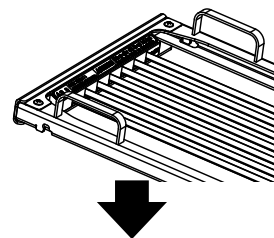
Touching the cutting edge of the **Cutter Blade** may cause serious injury such as loss of fingers.



Cleaning the Cutter Blade

When cleaning the **Cutter Blade**, put it on a stable place on the sink with the cutting edge side down.

Be extremely careful when handling it, because the damage of cutting edge make blades become blunt.



cutting edge
side down

In case, Cutter Blades are broken

If the **Cutter Blades** are broken, turn OFF the power immediately and then replace the **Cutter Blades** with new ones.

Be sure to remove fragments or other debris generated by the fracture.

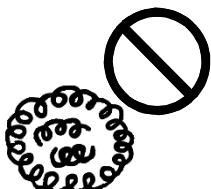


CAUTION

Use a sponge to wash the parts

- Use only a soft sponge to wash the parts. Never use a scrub brush.
- Scratches on the parts may alter Norimaki cutting function.

OK!



Use only a neutral detergent

Use only a neutral detergent for washing. Some detergents may negatively affect parts, causing the cutting function to deteriorate.



Neutral
detergent

OK!

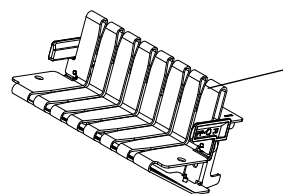
Never use hot water for washing

Never wash the parts with hot water or by an automatic dishwasher as this may cause the deformation, dysfunction, and deterioration of the forming units.

(Permissible temperature: Up to 158°F (70°C))

How to wash Cut Base

Use only soft sponge when you wash the Cut Base. Not to scratch surface of the base. Damaged surface causes contamination.



Cut Base

Spray vegetable oil before using.

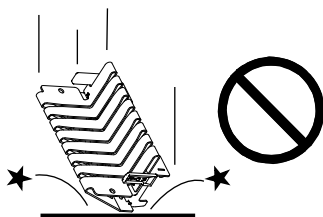
- Spray the vegetable oil, which is suitable for cooking, onto the specified area before using (See page 16).
- Inappropriate application of vegetable oil causes defective cutting performance and breakage of the cutter blades.

Use cleansers properly.

Be sure to follow the precautions and instructions when using Chlorine based cleanser. (See page 16). As wrong use may cause the deformation and deterioration of the parts, make sure not to exceed the manufacturer's specification on immersion time and concentration in well ventilated area. Rinse well after using Chlorine based cleanser. Please note that if the machine is damaged without complying the instructions for use, the machine will be repaired at your expense even within the warranty period.

Do not alter the shape.

Handle the parts with care. Washable parts and covers will be easily deformed by dropping and bumping. Deformation of the parts may cause faulty cutting and malfunction.

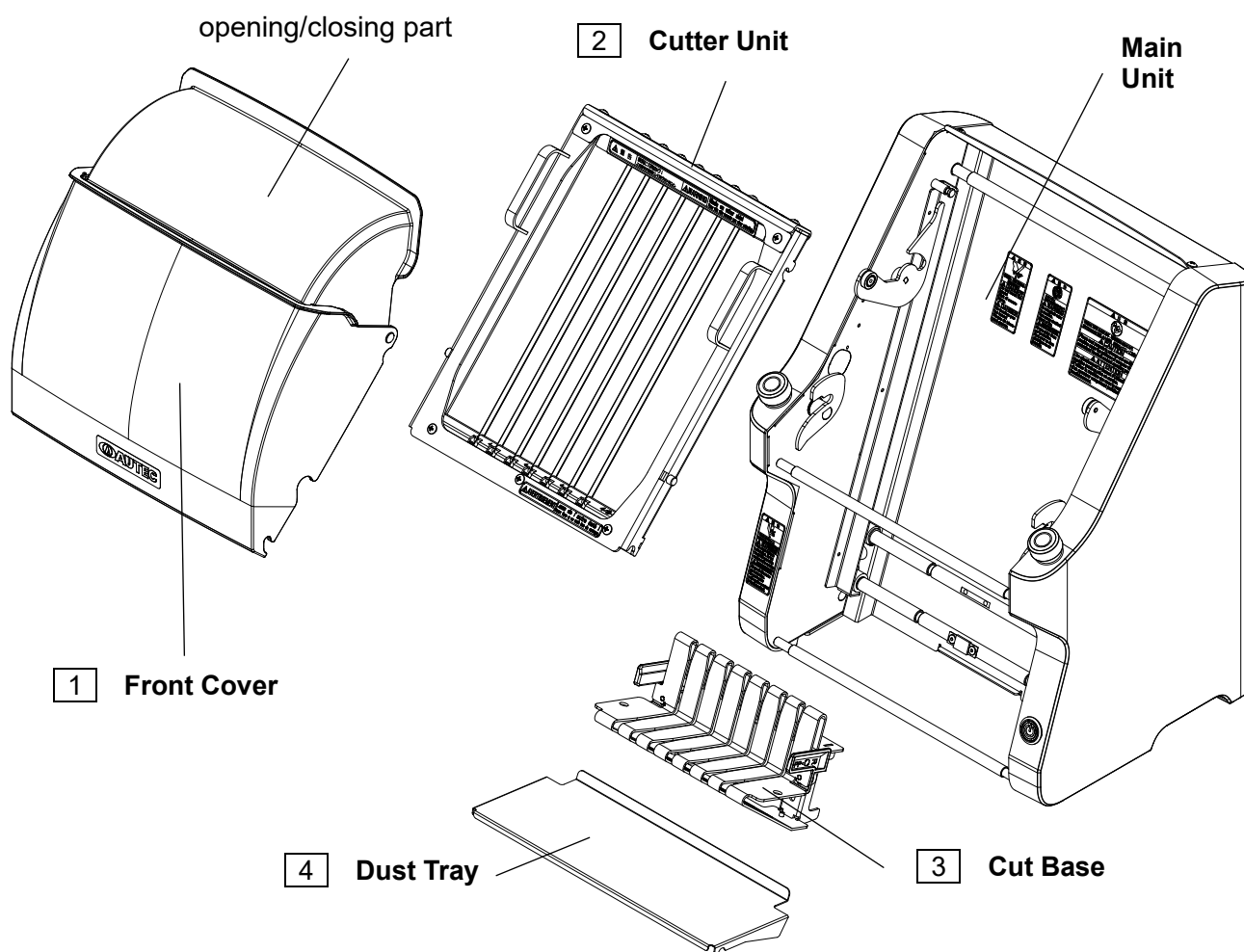


Do not cut Norimaki with hard ingredients.

Do not use hard ingredients such as frozen things, it may cause problems with the machine.

A freshly made Norimaki can be difficult to cut if it is not wrapped well. Please make sure to wrap Norimaki tightly to ensure safe and easy cutting.

Names of Each Component and Consumable Parts List



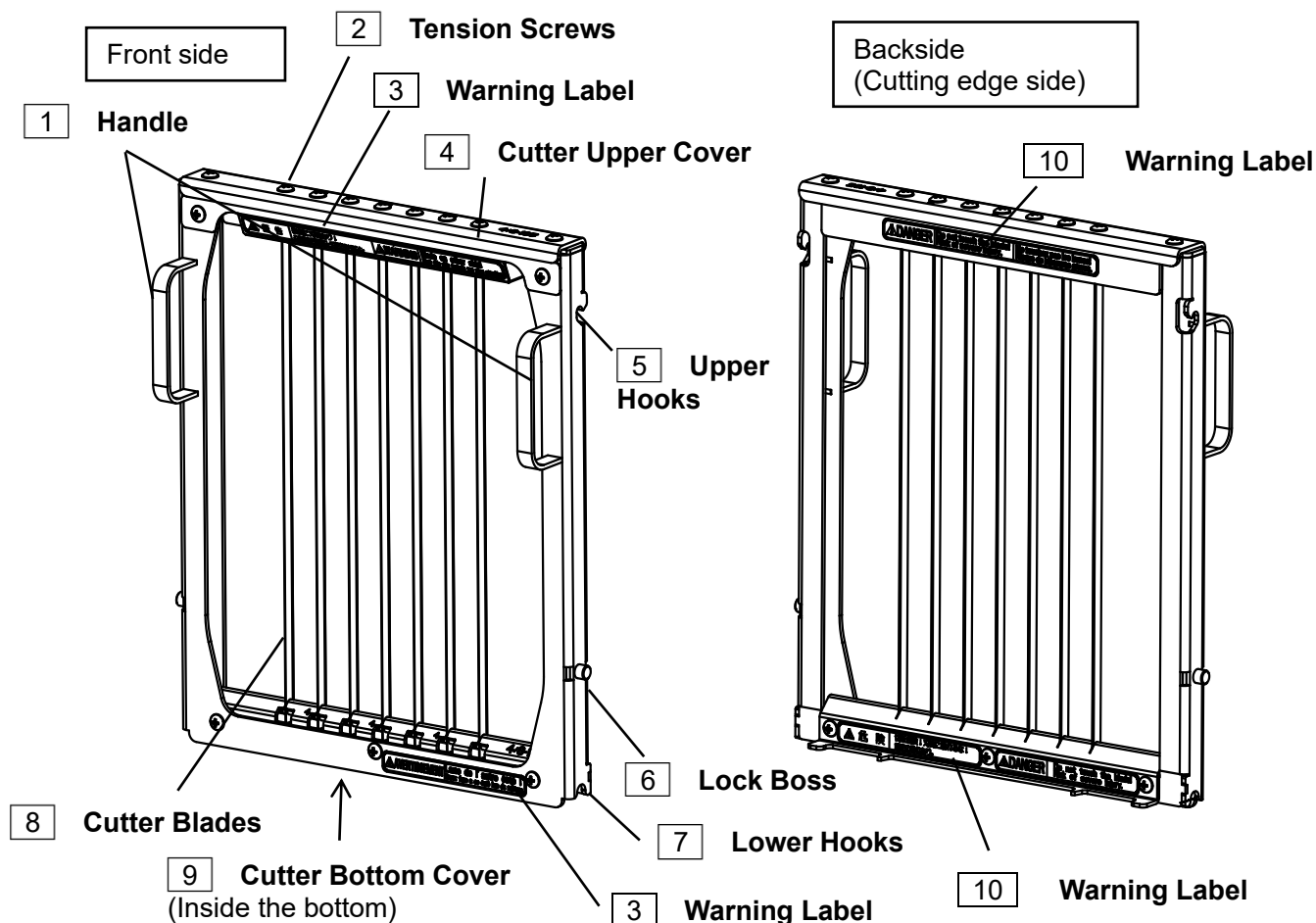
Consumable Parts List

No.	Name	Application
1	Front Cover	A cover that prevents hazards by covering the whole mechanism. The opening/closing part that opens and closes is interlocked with the cutting motion. <Note> ● The machine does not operate without the cover in place to prevent hazards. ● If the cover is not in place, the Operation Mode Lamp blinks.
2	Cutter Unit	Unit that holds the Cutter Blades that cut Norimaki. Available types are: six-piece cutting, eight-piece cutting, and ten-piece cutting types.
3	Cut Base	A stage on which to place Norimaki. It moves up/down when the machine operates. Available types are: six-piece cutting, eight-piece cutting, and ten-piece cutting types.
4	Dust Tray	This tray catches rice and ingredients that fall inside when cutting. It can be removed and cleaned.

Names of Consumable Parts

■ Cutter Unit

* The figure shows an eight-piece cutting type.

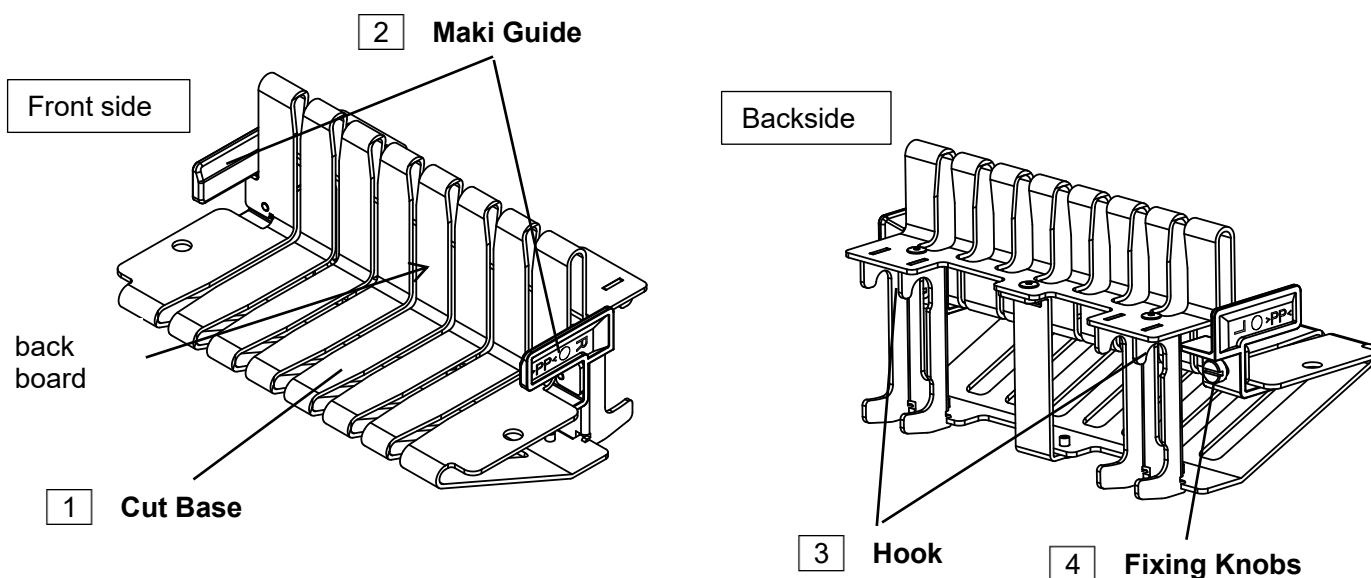


No.	Name	Application
1	Handle	Handles for holding the Cutter Unit . <Note> Do not hold anywhere other than the Handles .
2	Tension Screws	Screws for adjusting the Cutter Blades to appropriate tensions. <Note> Check the tensions before use. <<See page 23>>
3	Warning Label	It warns that there is a cutting-edge surface of the cutter blade on the back side. It is displayed in Japanese and English and French.
4	Cutter Upper Cover	When a Cutter Blade is broken, this cover prevents broken parts from falling.
5	Upper Hooks	A hook for attaching the Cutter Unit to the Main Unit . There is one Hook each on the right and left sides.
6	Lock Boss	This boss fixes the Cutter Unit to the Main Unit . There is one Boss each on the right and left sides.
7	Lower Hooks	A hook for attaching the Cutter Unit to the Main Unit . There is one Hook each on the right and left sides.

8	Cutter Blades	The blades that cut Norimaki. <Note> When the cutting quality degrades or they are broken, replace them with new ones. 《See page 20》
9	Cutter Bottom Cover	When a Cutter Blade is broken, this cover prevents broken parts from falling.
10	Warning Label	It is clearly stated that it is dangerous to touch the cutting edge of the cutter blade. It is displayed in Japanese and English and French.

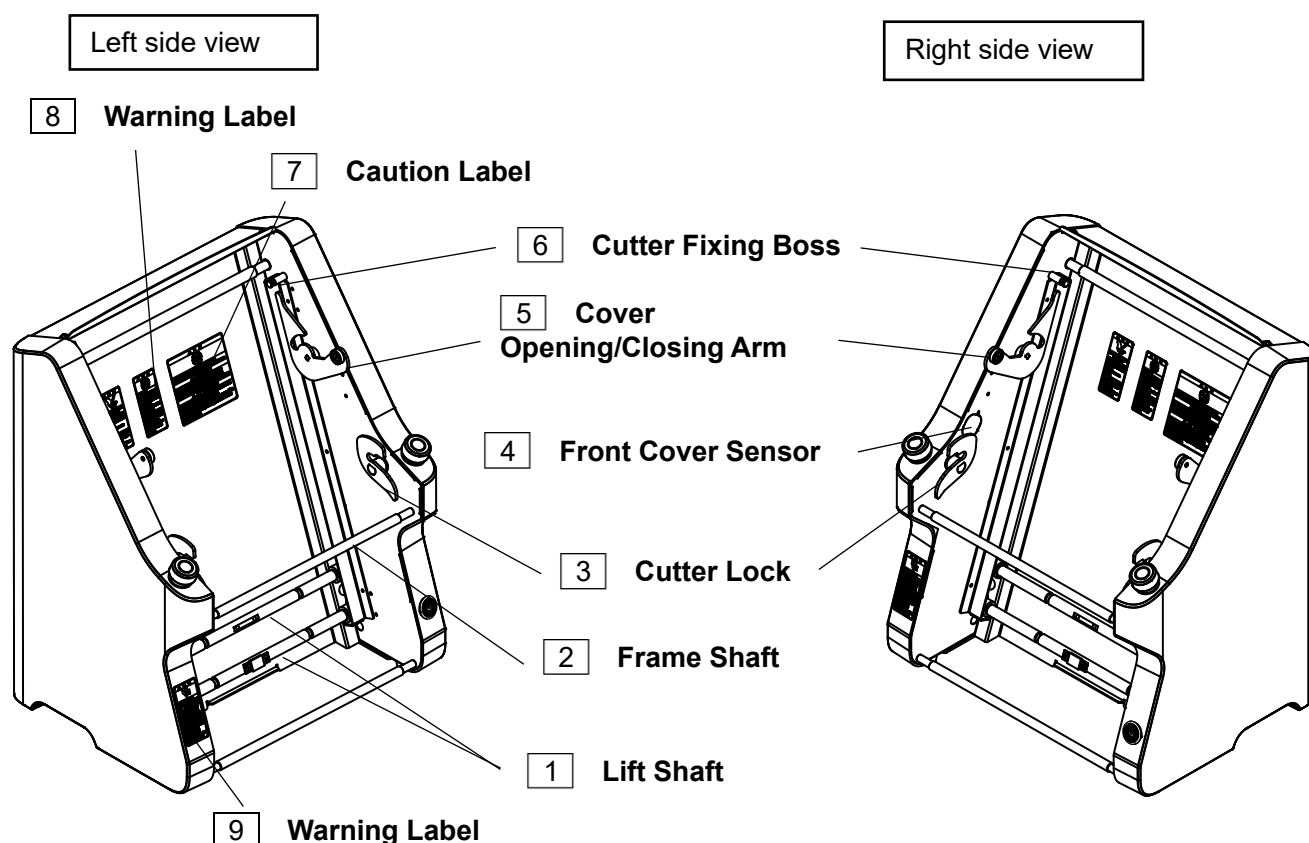
■ Cut Base

* The figure shows an eight-piece cutting type.



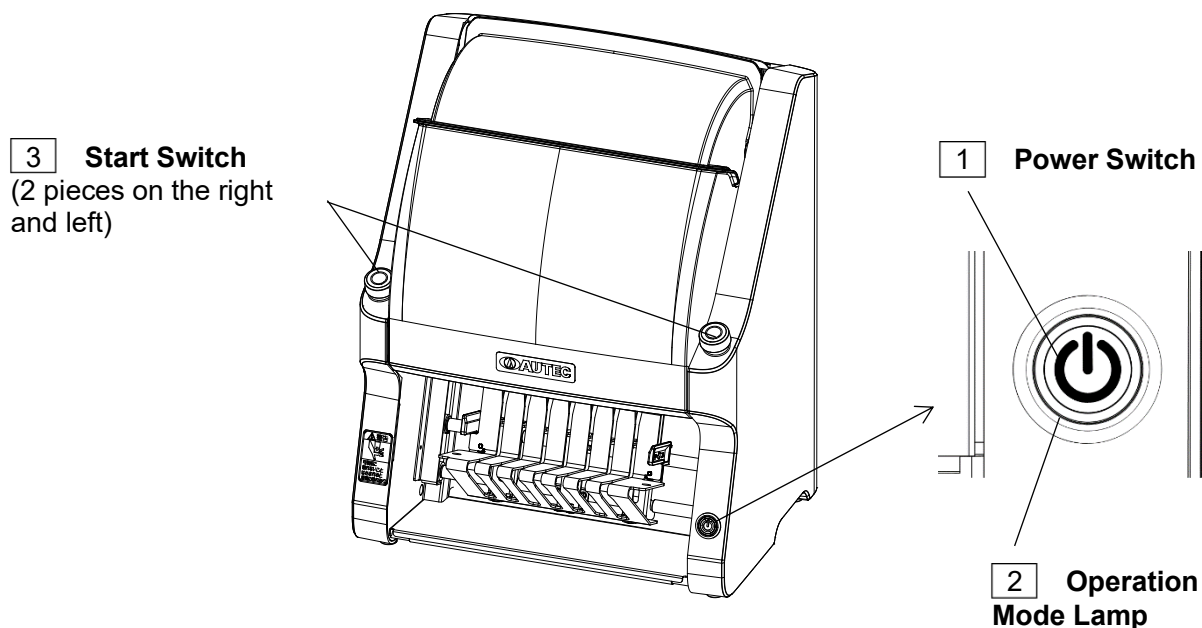
No.	Name	Application
1	Cut Base	A stage on which to place Norimaki. Place Norimaki at the center and push it against the back board.
2	Maki Guide	Parts that guide Norimaki to the center. There is one Guide each on the right and left sides. Adjust the right/left guides according to the Norimaki to be cut.
3	Hook	These hooks are used to attach the Cut Base to the Lift Shaft of the Main Unit .
4	Fixing Knobs	These knobs fix each of the right/left Maki Guides . There is one Knob each on the right and left sides.

Part Names of the Main Unit



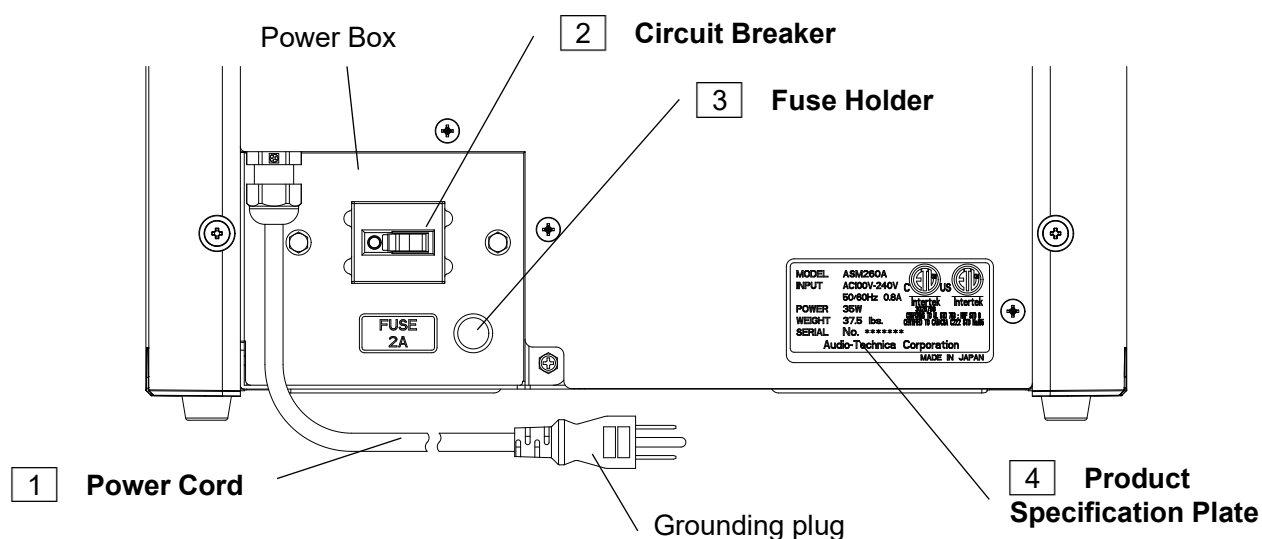
No.	Name	Application
1	Lift Shaft	These shafts are used to attach the Cut Base to the Main Unit. When operation starts, they move up and down.
2	Frame Shaft	This shaft attaches the Front Cover and the Cutter Unit to the Main Unit.
3	Cutter Lock	This lock fixes the Cutter Unit . There is one Lock each on the right and left sides.
4	Front Cover Sensor	This sensor detects the Front Cover .
5	Cover Opening/Closing Arm	This arm automatically opens/closes the opening/closing part at the top of the Front Cover . There is one Arm each on the right and left sides.
6	Cutter Fixing Boss	This boss fixes the upper part of the Cutter Unit . There is one Boss each on the right and left sides.
7	Caution Label	It clearly states the precautions for using this product.
8	Warning Label	It warns not to splash water on the main body.
9	Warning Label	It warns you not to touch the moving parts while driving.

Part Names of the Operation Area



No.	Name	Application
1	Power Switch	Use to turn the power ON/OFF.
2	Operation Mode Lamp	When the Power Switch is turned ON, the ring-shaped lamp lights to indicate that operation is possible. The Operation Mode Lamp shows the condition of the machine. * For more information, please see "Explanation of Operation Mode Lamp Indications (Page. 24). "
3	Start Switch	There is one Switch each on the right and left sides, both these switches are for cutting Norimaki. To start operation, press both right and left switches at the same time for at least 0.4 s. To return the machine to the start position, press either one of these switches. * For more information, please see "How to Use the Machine (Page. 16)."

Part Names of the Main Unit Backside



No.	Name	Application
1	Power Cord	A power cord with a grounding plug to supply power to this product. <Note> Connect this cord to a grounding outlet.
2	Circuit Breaker	Breaker used to shut off the power if there is a ground fault current. <Note> Regularly inspect its operation. * For more information, please see “How to handle a Circuit breaker (Page. 27).”
3	Fuse Holder	It houses Fuses that shut down the power supply when an abnormality occurs such as a short circuit in the machine. * For details about replacing the Fuse , see “How to replace a Fuse on page 27”).”
4	Product Specification Plate	The specification and production No. and other data of this product are indicated on this plate.

Installation and Settings Before Use

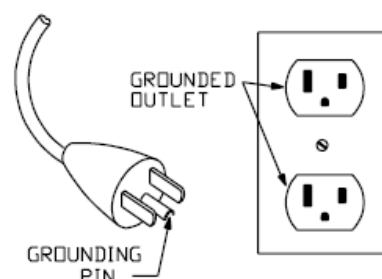
How to hook up the power cord and grounding wire

Connect to the specified voltage AC110V-120V (50/60Hz)
Be sure to connect the ground wire to prevent any risk of electric shock.

There is a risk of electric shock due to damage or a short circuit of the machine. Please ask the delivery agent from whom you purchased the machine to ensure it is grounded.

It is prohibited to attach the grounding wire to a gas pipe, water pipe, telephone or lightning rod.

When changing the machine's location, please make sure to properly ground the machine.



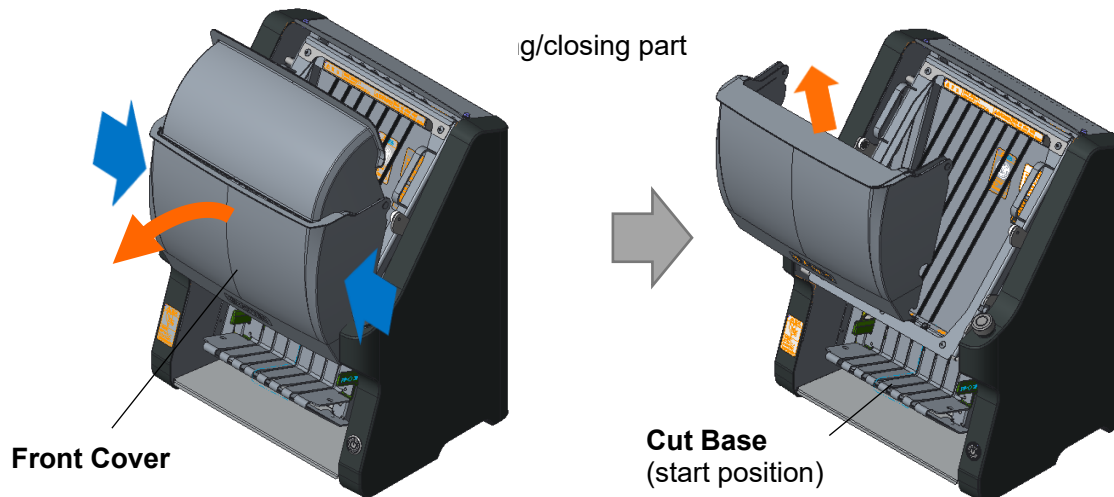
How to Disassemble and Care for Parts

1. Remove a part following the steps below.

- Before removing or assembling any parts, ensure the **Power Switch** is turned OFF and unplug the **Power Plug** from a wall outlet. * The figures for explanation below may have colors different from those of actual products.

1. Remove the Front Cover.

After checking that the **Cut Base** is at the start position, tilt the **Front Cover** toward you by holding both sides of the lower part of the cover, and then pull the cover upward to remove it.

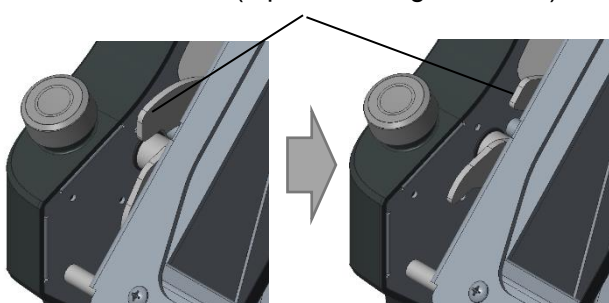


< Note > When the cover tilts forward, the opening/closing part opens. Be careful not to pinch your fingers.

2. Remove the Cutter Unit.

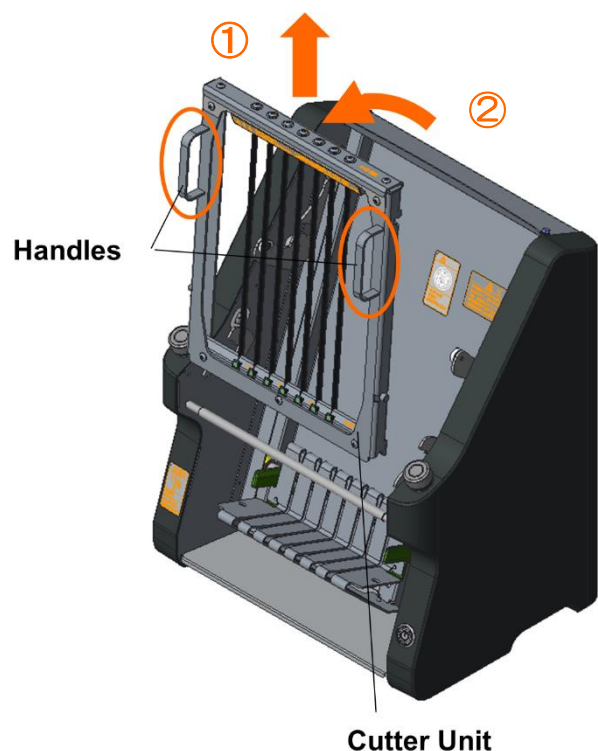
Push both **Cutter Locks** on the right and left sides of the **Main Unit** toward the back, ① lift the **Cutter Unit** a little while holding right/left **Handles**, ② pull it toward you, and then raise it upward to remove it.

Cutter Locks (2 places on right and left)



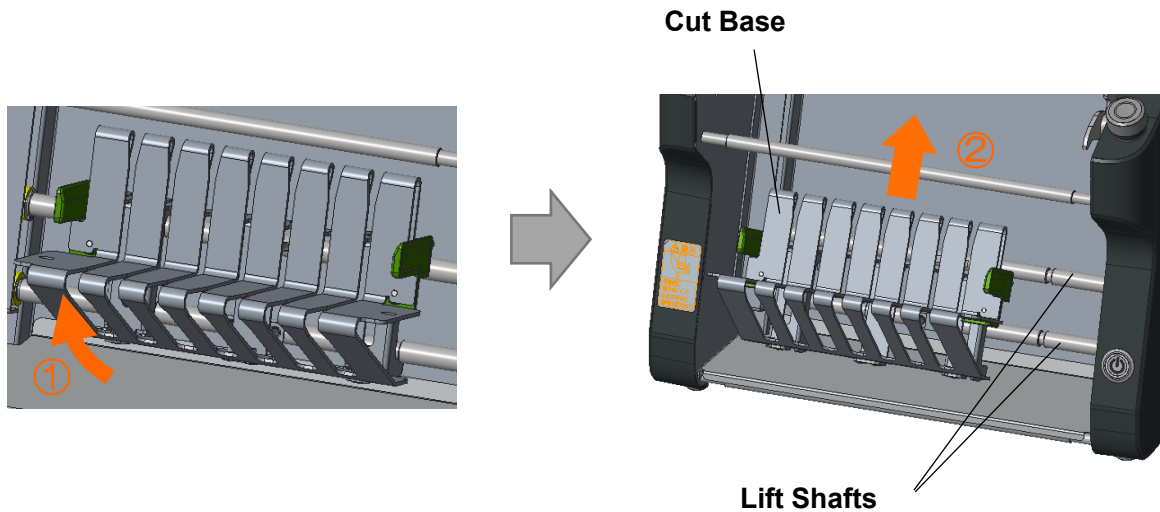
< Note >

- Be sure to hold the right and left **Handles** to remove the **Cutter Unit**.
- As the **Cutter Unit** has sharp blades on its rear side, be extremely careful when handling it.



3. Remove the Cut Base.

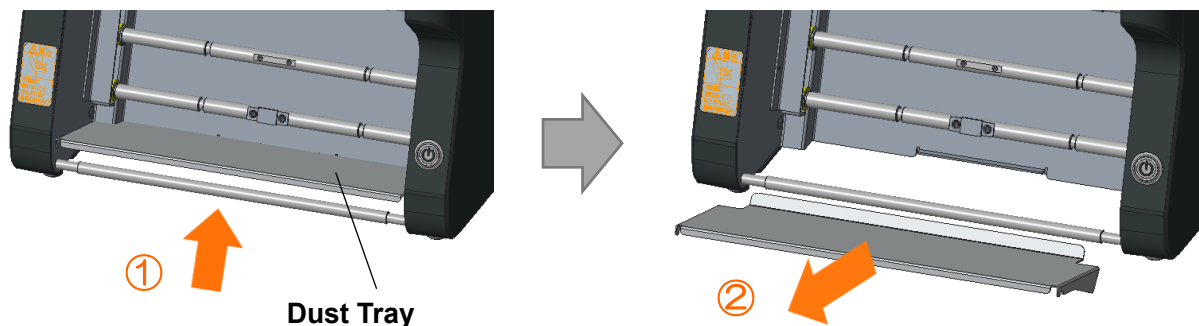
- ① While lifting the front part, ② move the whole **Cut Base** upward to remove it from the **Lift Shafts**.



< Note > Installation and removal of the **Cut Base** with the **Cutter Unit** mounted on it is extremely dangerous because your hand may touch the blades. Be absolutely sure to dismount the **Cutter Unit** from the **Cut Base** before installation or removal of the **Cut Base**.

4. Remove the Dust Tray.

- ① While lifting the front part, ② pull it toward you to remove it.



2. Maintain each part according to the instructions below:

Washable parts

(Cutter Unit, Cut Base, Dust Tray)

Soak the parts in a solution of lukewarm water and neutral detergent to remove dirt and oil.

Main Unit, Cover Parts

(Main Unit, Front Cover)

Wipe them with wet cloth to remove dirt and oil.

< Note >

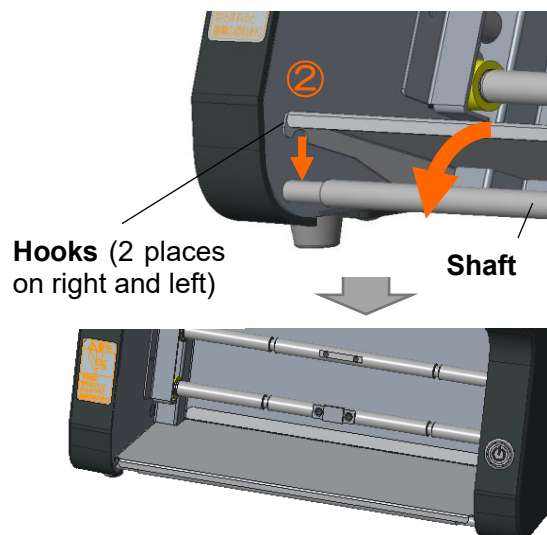
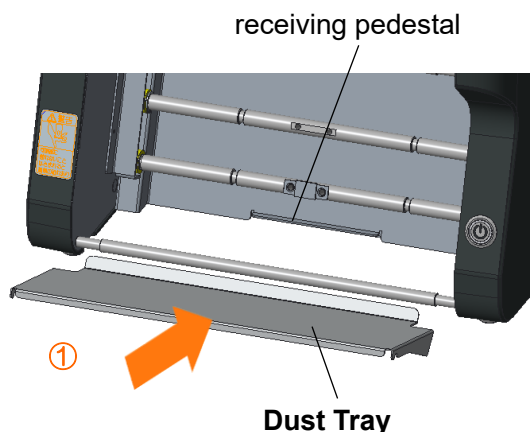
- Before washing and cleaning, read the (Safety precautions on pages 1 to 4) carefully.
- Washed and cleaned parts and Main Unit must be thoroughly dried and kept clean.

How to Reassemble Parts

- Before assembling any parts, ensure the Power Switch is turned OFF and unplug the Power Plug from a wall outlet.

1. Install the Dust Tray.

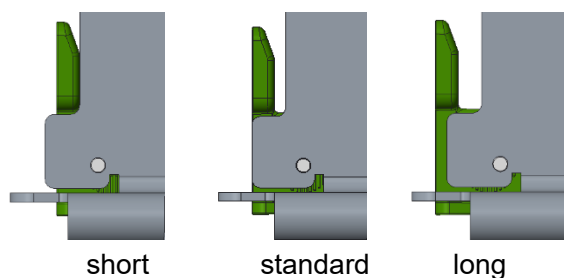
① Put the end on the receiving pedestal in the back of the **Main Unit**, and then ② engage the front hooks on both sides with the front shaft to install the **Dust Tray**.



2. Adjust the Maki Guides of the Cut Base.

Loosen the **Fixing Knobs** on the back of the **Cut Base**, adjust the **Maki Guides R and L** according to the length of the Norimaki to be cut, and then tighten them again.

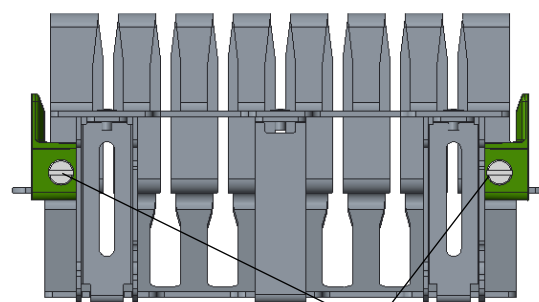
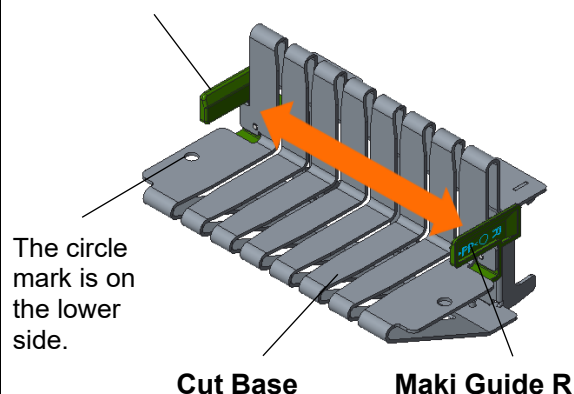
Fix the **Maki Guides R and L** at the positions shown in the figures (viewed from the front side) below to cut at the indicated length. Use this as a reference when adjusting them.



lengthwise roll 185mm
crosswise roll 205mm

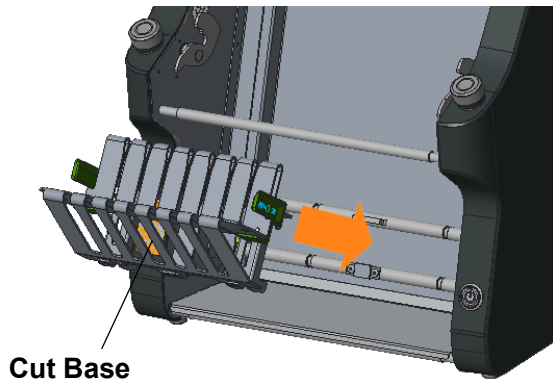
<Note> Use the **Maki Guide** as a rough indication of the position to place the Norimaki, and adjust it so that the cutting widths at the both ends of the Norimaki are the same.

Maki Guide L

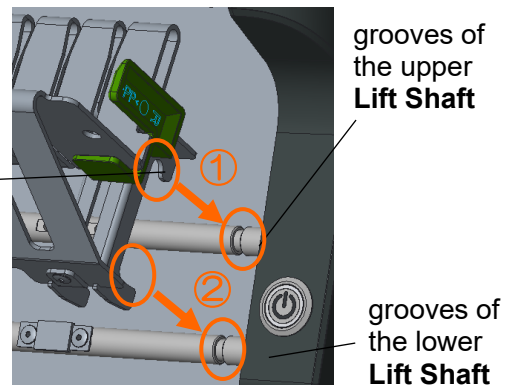


3. Install the Cut Base.

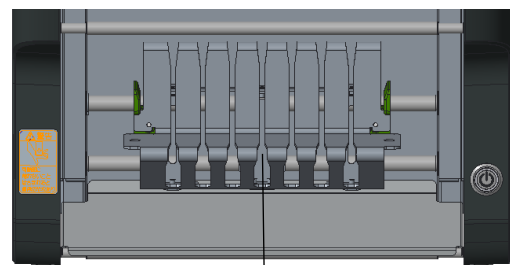
- ① Engage the right and left **Hooks** on the back with the grooves of the upper **Lift Shaft**, and then
- ② engage the **Cut Base** with the grooves of the lower **Lift Shaft** to install the **Cut Base**.



Hooks



<Note> Check that the **Cut Base** is securely set at the center. Operating the machine with the **Cut Base** inclined or shifted toward one side will damage the **Cutter Blades** or the **Cut Base**.

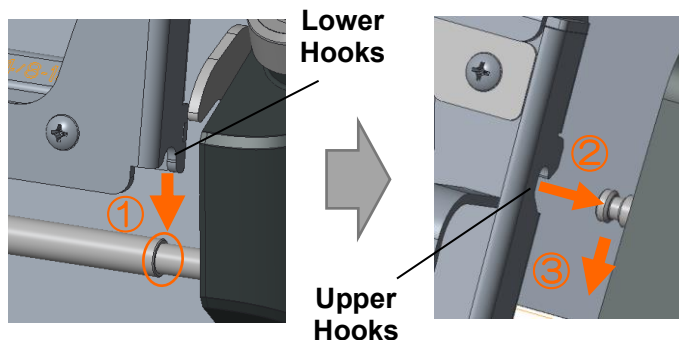


Check the installation state.

4. Install the Cutter Unit.

<Note> Before installation, apply vegetable oil for food machines to the **Cutter Blades**.
<See page 16>

Holding the right and left **Handles**, ① engage the **Lower Hooks** on both sides of the bottom with the thin parts of the **Frame Shaft** of the **Main Unit**, push the Cutter Unit toward the Main Unit to ② engage the **Upper Hooks** on both sides of the top of the **Cutter Unit** with the grooves of the **Cutter Fixing Bosses** on both sides of the **Main Unit**, and then ③ lower the **Cutter Unit** to install it.

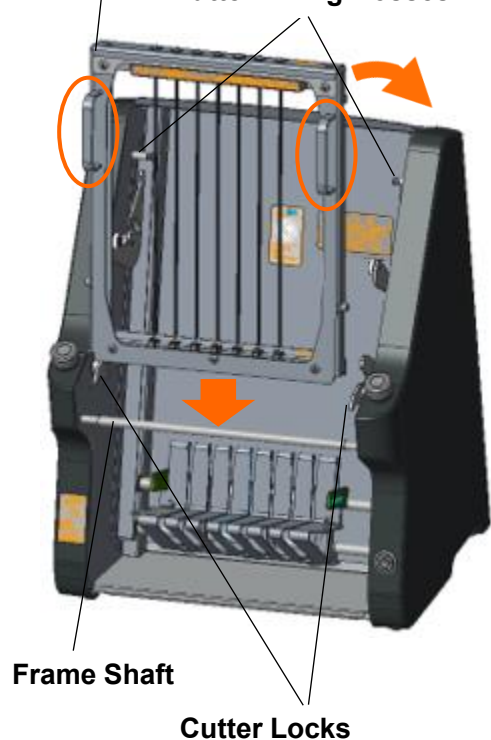


<Note>

- Be sure to hold the right and left **Handles** to remove the **Cutter Unit**.
- As the **Cutter Unit** has sharp blades on its rear side, be extremely careful when handling it.
- Use the **Cut Base** and **Cutter Unit** of the same cut-number type. Using different cut-number types may cause damage to parts or failure of the machine.

Cutter Unit

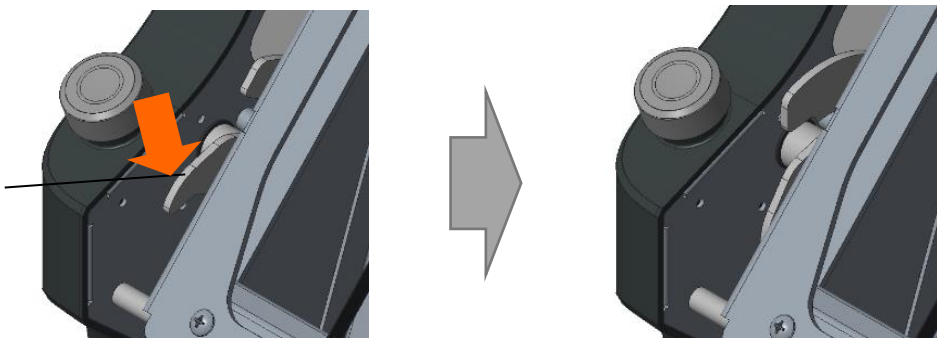
Cutter Fixing Bosses



5. Push down the **Cutter Locks**.

Push down both **Cutter Locks** on the right and left sides of the **Main Unit** to lock the **Cutter Unit**.

Cutter Locks
(2 places on
right and left)



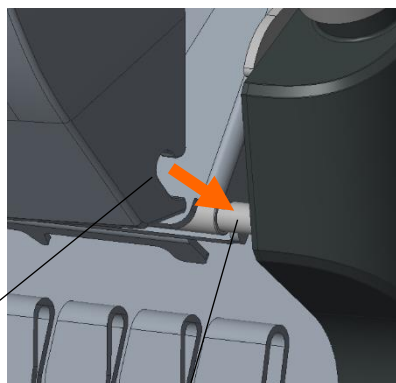
6. Install the **Front Cover**.

Holding both sides of the bottom, engage the **Hooks** on both sides of the bottom with the thin parts of the **Frame Shaft** of the **Main Unit**, and then push the **Front Cover** until it presses against the back of the **Main Unit** to install it.

< Note >

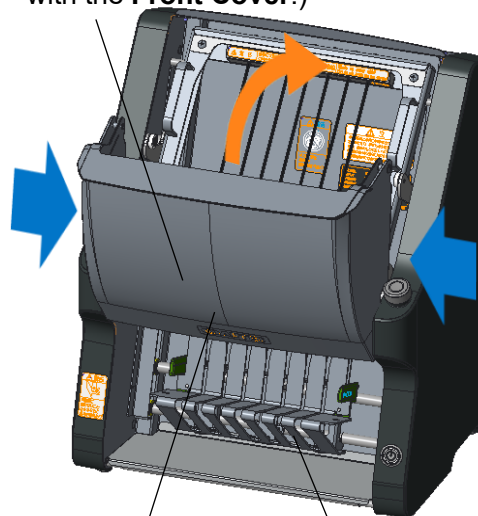
- If the **Power Switch** is turned ON with the **Front Cover** attached incorrectly, the **Operation Mode Lamp** will blink.
- If the **Front Cover** is installed with its opening/closing part open, it closes interlocked with the installation of the cover.
- If the **Cut Base** is not at the start position, the **Front Cover** cannot be installed. In that case, remove all the parts and then lower the **Lift Shaft** to the start position.

Hook



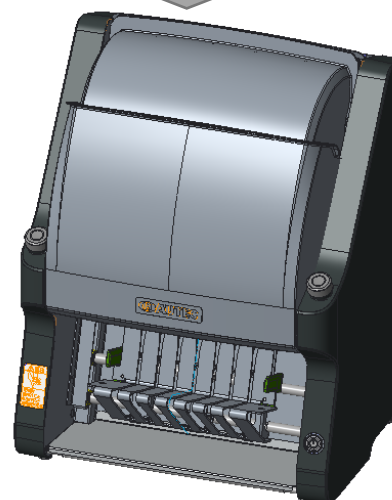
Frame Shaft

Opening/closing part (closes interlocked with the **Front Cover**.)



Front Cover

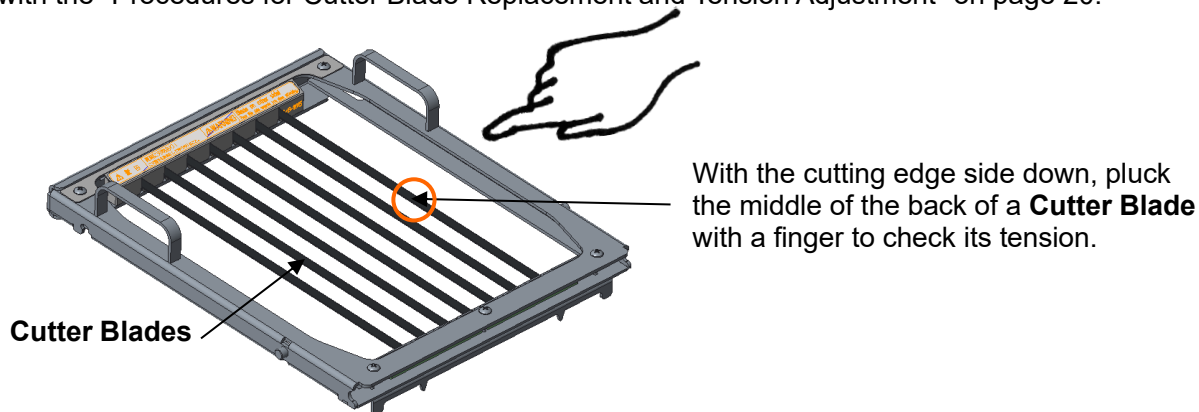
Cut Base
(start position)



How to Use the Machine

1. Check the tension of the Cutter Blades.

If the tension of the **Cutter Blades** on the **Cutter Unit** is too low, adjust the tension in accordance with the "Procedures for Cutter Blade Replacement and Tension Adjustment" on page 20.

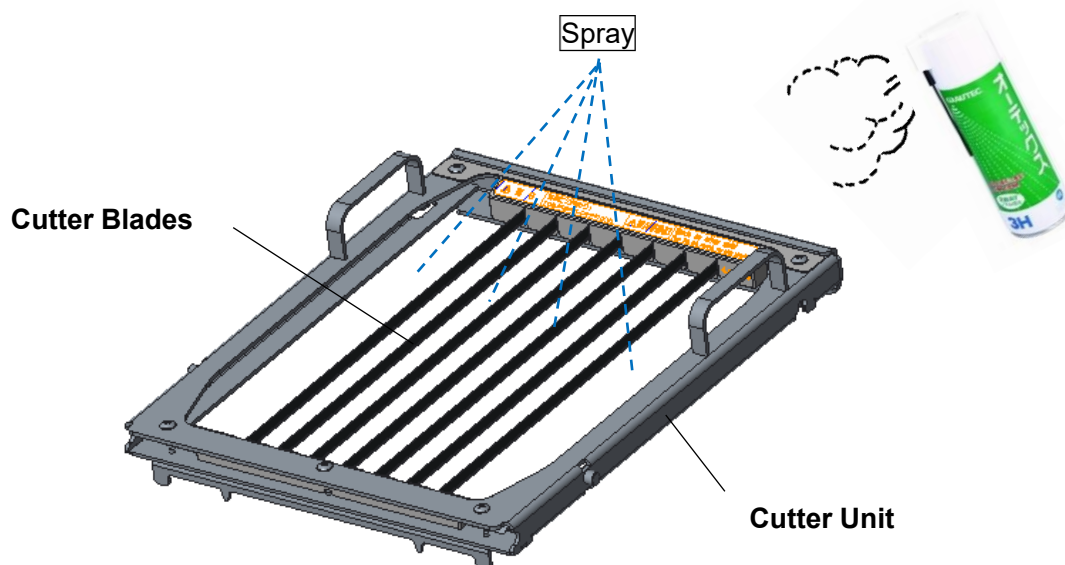


2. Apply lubricant onto the Cutter Blades.

Uniformly apply vegetable oil for food machines (AUTEX [sold separately]) to both sides of the **Cutter Blades** on the **Cutter Unit**.

<Note>

- When applying lubricant, remove the Cutter Unit from the Main Unit.
- Cutting Norimaki without applying the vegetable oil causes defective cutting performance and malfunctions.
- When applying lubricant to the Cutter Blades, place the Cutter Unit on a stable stage with the cutting edge side down.



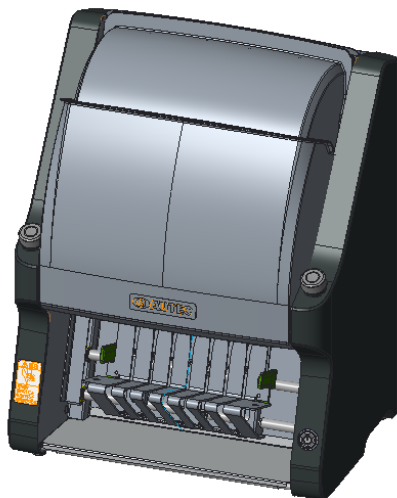
<Note on vegetable oil for food machines>

Commercially available oils intended for use with food may contain components that can affect resin. We recommend the use of our genuine oil, "AUTEX." If the machine is damaged by using oil of other brands, the customer will be charged for the repair.

3. Install the parts properly.

Assemble the parts according to the section How to reassemble parts on pages 13 to 15.

<Note> Operating with the parts improperly installed may damage the parts and machine, or cause a malfunction.

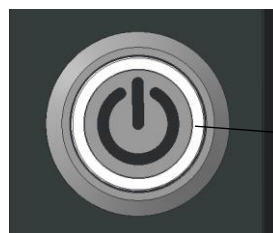


4. Turn the Power Switch ON

The **Operation Mode Lamp** lights in a ring shape.

<Note>

If the **Operation Mode Lamp** does not light or it blinks, refer to the "Explanation of Operation Mode Lamp Indications" on page 24.



Operation
Mode Lamp

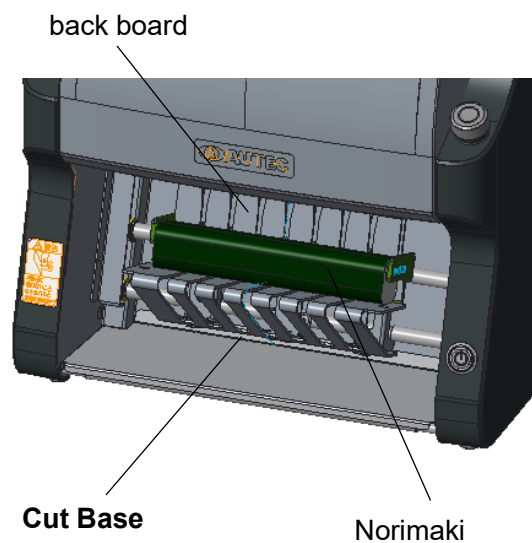
Power Switch

5. Place the Norimaki on the Cut Base.

Place the Norimaki on the center of the **Cut Base** with the Norimaki up against its back board.

<Note>

- Place the Norimaki correctly.
- Place the Norimaki so that it does not protrude out of the front side of the **Cut Base**.
- Do not use Norimaki using frozen ingredients, it may cause problems with the machine.
- A freshly made Norimaki can be difficult to cut if it is not wrapped well. Please make sure to wrap to Norimaki tightly to ensure safe and easy cutting.



back board

Cut Base

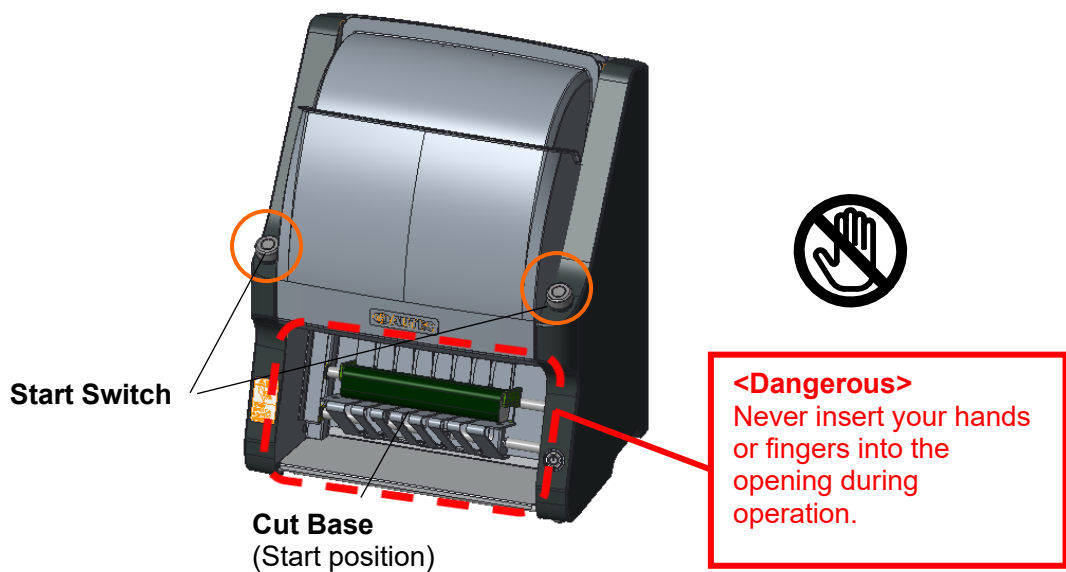
Norimaki

6. To start operation, hold down the right and left Start Switches at the same time for at least 0.4 s.

The **Cut Base** starts to rise.

<Note>

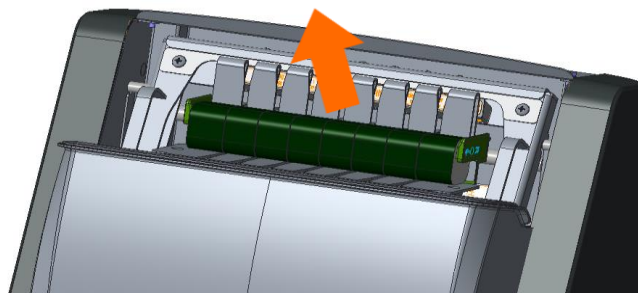
- If the **Start Switch** is released in less than 0.4 s, the machine will stop for hazard prevention. In that case, press either one of the **Start Switches** to return the **Cut Base** to its start position, and then carry out the starting procedure again.
- If the **Cut Base** does not reach the upper position in two seconds after starting operation, the time-up error occurs and the machine stops for safety.
- Since the machine starts immediately, make sure to check the safety in the area before pressing the **Start Switch**. During operation, do not touch any moving components with your hands or with any other object.
- Never insert your hands into the opening during operation. It is extremely dangerous as cutters are inside.



7. Take cut Norimaki out of the Cut Base.

As the **Cut Base** goes up, the opening/closing part of the **Front Cover** opens. After checking that the **Cut Base** is stopped, take out the cut Norimaki.

<Note> Be sure to take out the cut Norimaki before starting the next cutting.

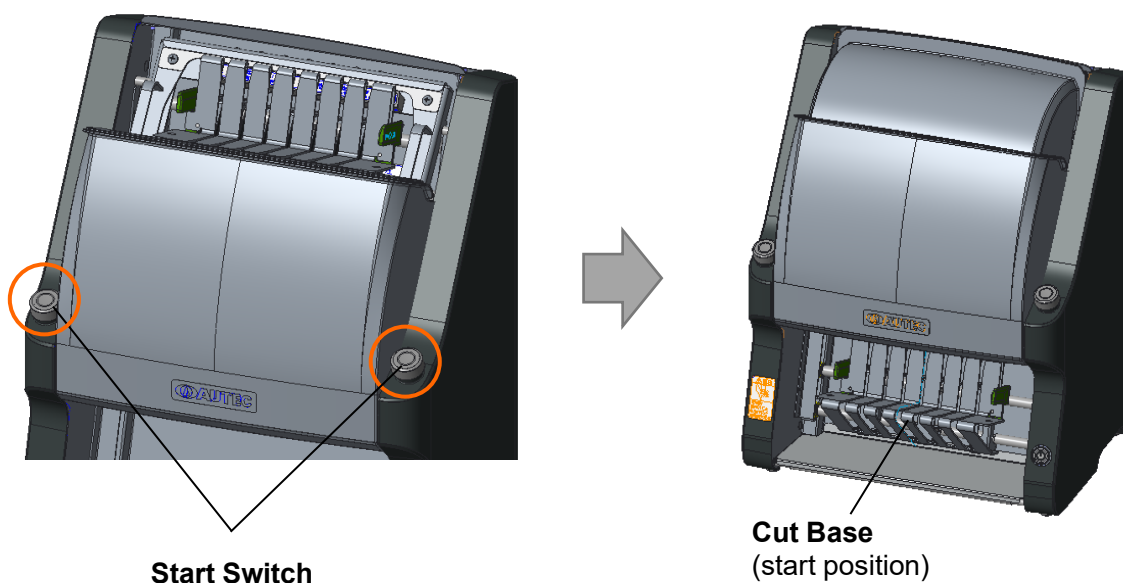


8. Return the Cut Base to the start position.

Press either one of the right and left **Start Switches** to put the **Cut Base** back in its start position with the opening/closing part closed.

< Note >

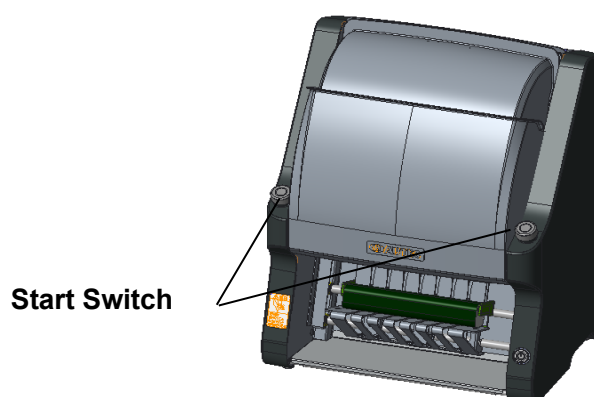
- Start the following operation after confirming that the **Cut Base** has returned to the start position and stopped.
- If the **Cut Base** does not reach the start position in one second after it started descending, the time-up error occurs and the machine stops for safety.



9. To stop the operation, press the Start Switch.

Pressing either one of the right and left **Start Switches** stops the machine.

For the operation procedure after the machine stops, refer to the "Explanation of Operation Mode Lamp Indications" on page 24.



Procedures for Cutter Blade Replacement and Tension Adjustment

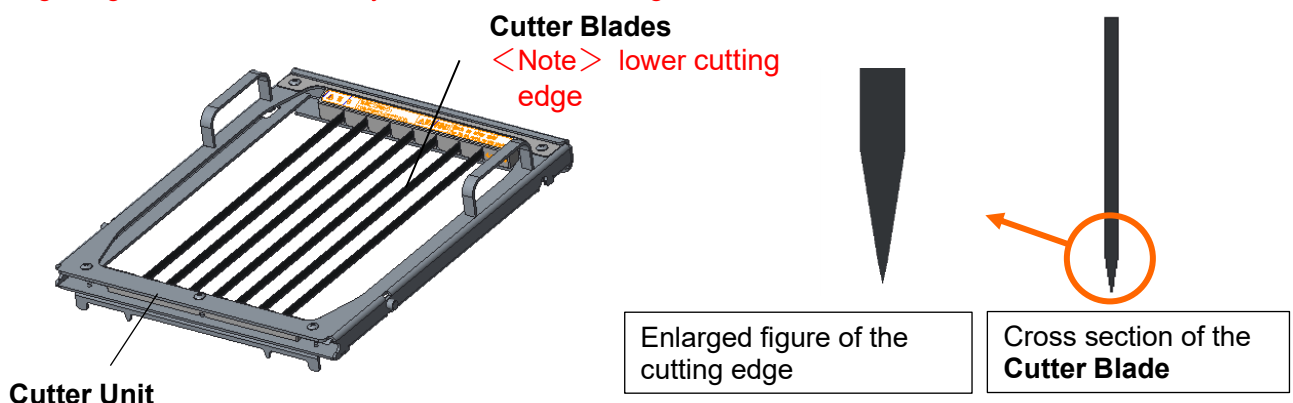
If the cutting quality becomes poor or the **Cutter Blades** are damaged, replace the **Cutter Blades** with new ones and then adjust the tension correctly.

Improper tension adjustment leads to breakage of the **Cutter Blades** and other parts.
Check and properly adjust the tension before use.

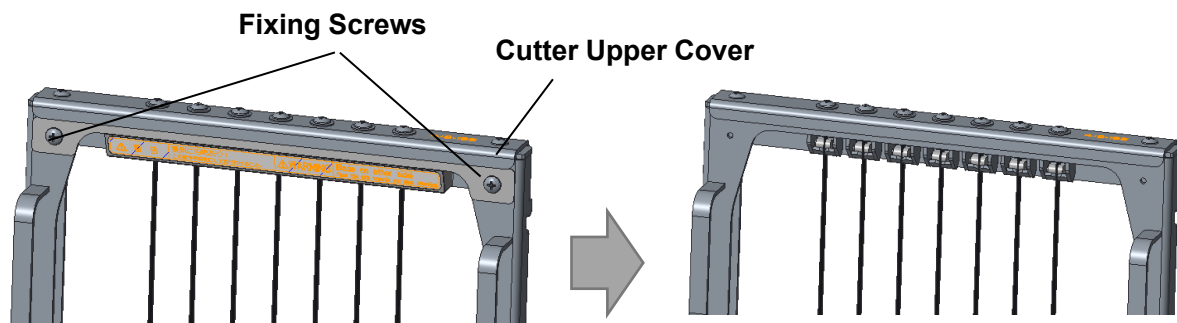
<Procedures for replacing the **Cutter Blades**>

1. Holding the right and left **Handles**, place the **Cutter Unit** on a stable horizontal stage with the cutting edge side of the **Cutter Blades** down.

<Note> Touching the cutting edge of a **Cutter Blades** may cause serious harm to the body such as fingers getting cut off. Be extremely careful when handling the **Cutter Blades**.



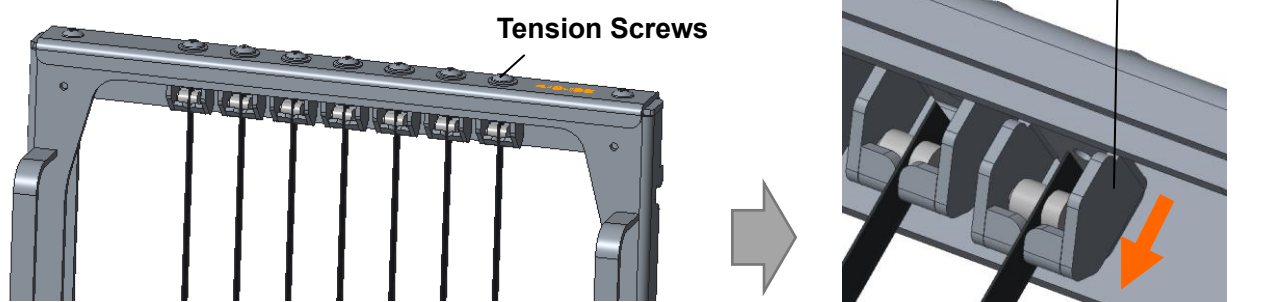
2. Turn the **Fixing Screws** (plus truss head screws M4 x 6 mm) on the right and left sides of the **Cutter Upper Cover** in the counterclockwise direction with a Phillips screwdriver (sold separately), and then remove the **Cutter Upper Cover** toward the front.



3. Turn the **Tension Screw** (plus truss head screw M4 x 12 mm) of the **Cutter Blade** to be replaced in the counterclockwise direction with a Phillips screwdriver to loosen it, and then move the **Blade Tension Adjuster** to the position where the **Cutter Blade** can be removed.

<Note>

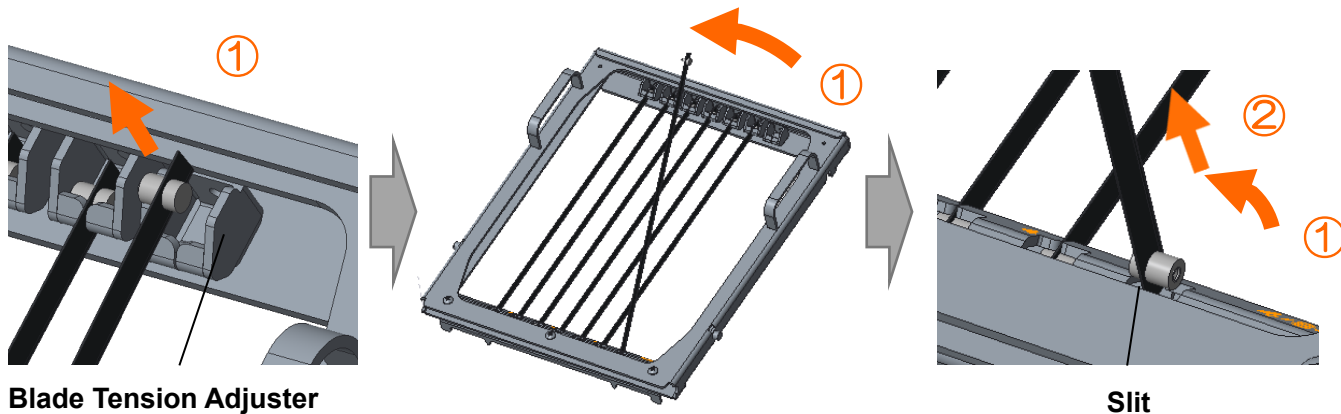
- Replace blades one by one.
- In loosening a few blades at one time, do it slowly.
- Be careful not to lose the detached screws.



4. ① Remove the **Cutter Blade** to be replaced from the **Blade Tension Adjuster**, and then ② raise the **Cutter Blade** in the vertical direction to remove it from the **Slit** at the other end.

<Note>

- Remove the broken blades in case **Cutter Blades** damages.
- Please be sure to remove the broken parts in order to prevent from contamination or injury.
- Be careful when handling the removed **Cutter Blades**. Dispose of them properly.

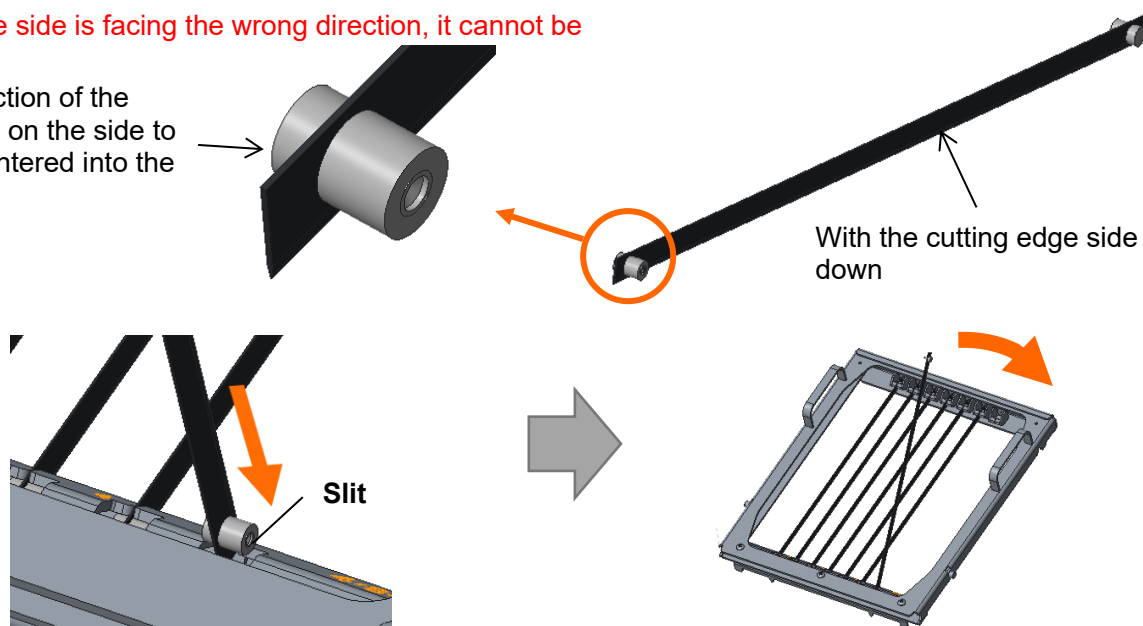


5. Holding the new **Cutter Blade** (sold separately) with the cutting edge downward, insert it vertically into the **Slit** of the **Cutter Frame**, and then bring it down to the **Blade Tension Adjuster**.

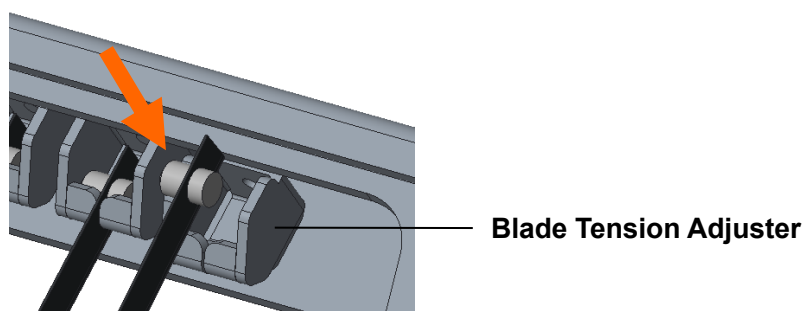
<Cutter Blade> Parts code : 289907390 Parts Name : SP) Cutter Blade T04 260

<Note> As the **Cutter Blade** has a shape that prevents it from being inserted incorrectly, if the cutting edge side is facing the wrong direction, it cannot be

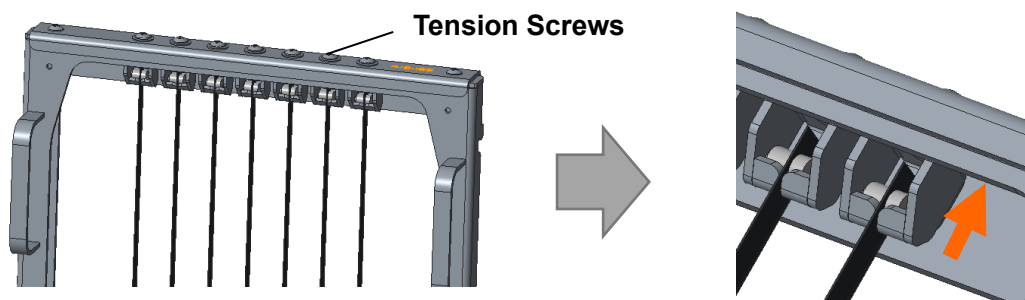
Direction of the boss on the side to be entered into the **Slit**.



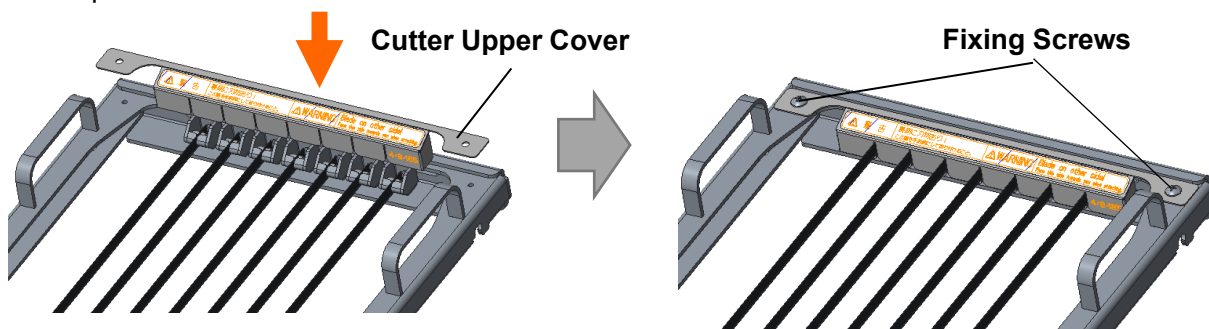
6. Insert **Cutter Blades** into the **Blade Tension Adjuster**.



7. Turn the **Tension Screw** in the clockwise direction with a Phillips screwdriver to fix it temporarily so that the **Cutter Blade** will not come off easily.



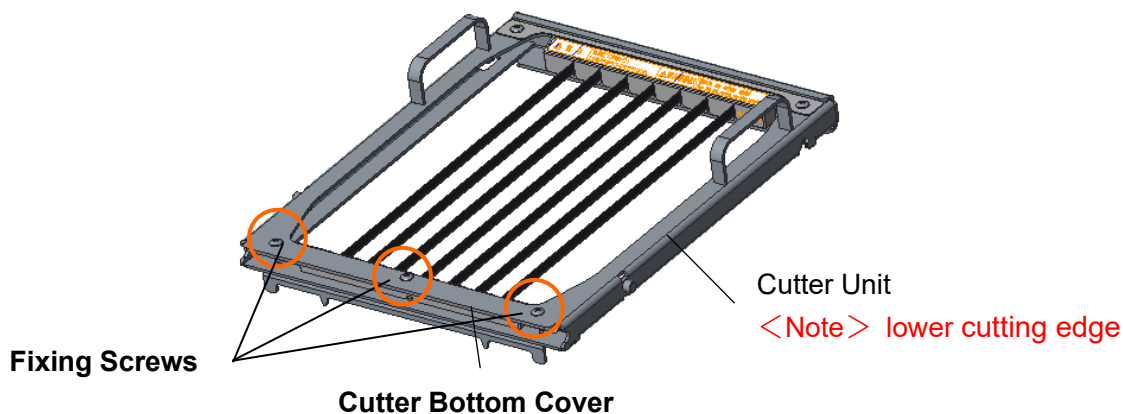
8. Attach the **Cutter Upper Cover** to the **Cutter Frame**, and then tighten the right and left **Fixing Screws** with the Phillips screwdriver to fix them.



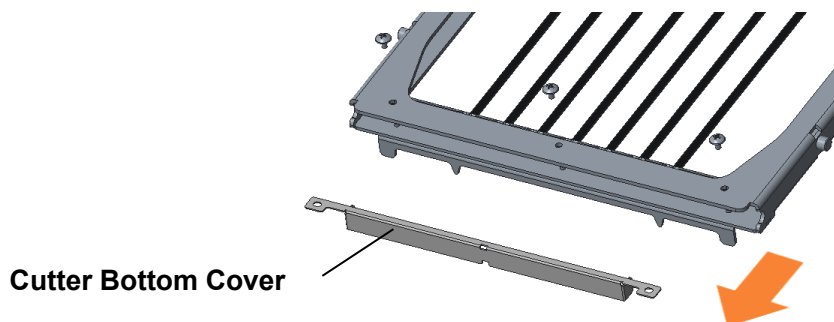
9. How to remove and install the **Cutter Bottom Cover**.

When removing or cleaning blade debris, remove the **Cutter Bottom Cover** inside the bottom surface.

- ① With the tension loosened, remove the fixing screws (plus truss head screws M4 x 6 mm) on the underside of the cutter unit by turning it counterclockwise with a Phillips screwdriver (sold separately).



- ② Remove the **Cutter Bottom Cover** from the **Cutter Unit**.



- ③ Install in the reverse order of the above, and tighten the fixing screws with a Phillips screwdriver to fix it.

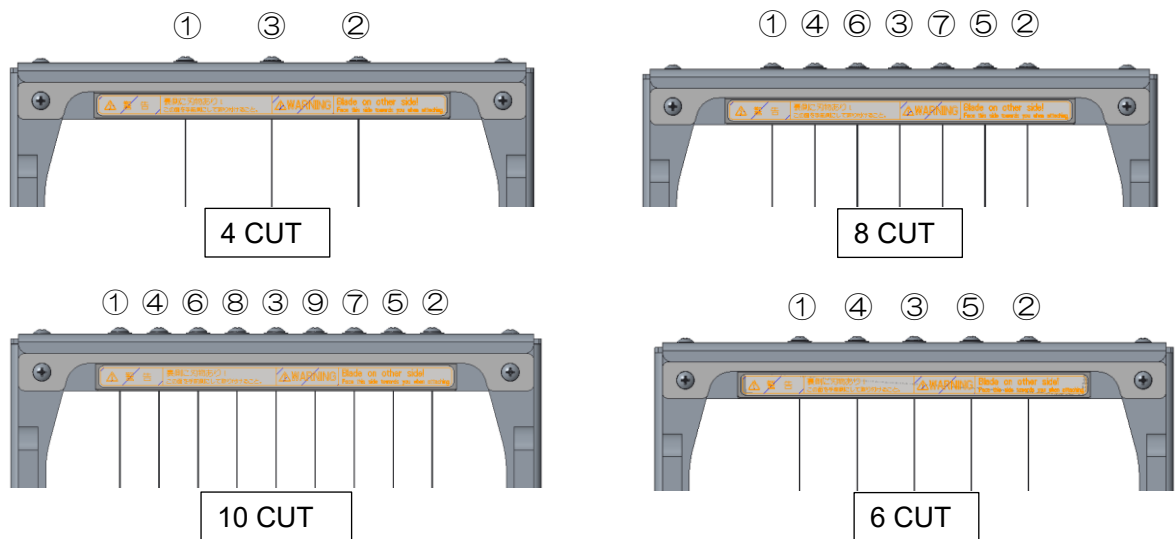
<Adjust the tension of the **Cutter Blades**>

1. Tighten the **Tension Screws** in the clockwise direction with the Phillips screwdriver to adjust them so that all the blades have about the same tension. Adjust them in the order shown in the figures below. *The recommended tightening torque is 30 cN•m. It is easy to adjust them if you use the **Torque Driver** (30 cN•m) (sold separately).

After adjusting all the **Cutter Blades**, check the tension of each blade, and then readjust only blades with low tension.

<Torque screwdriver Phillips-head>

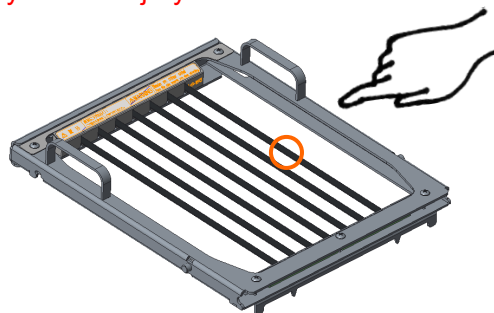
Part Code : 280911060 Part Name : SP) Torque screwdriver Phillips-head 250



2. How to check the tension

With the cutting edge side down, pluck the middle of the back of a **Cutter Blade** with a finger to check its tension. Please make a tension of blades in proper degree as it could cause damage to **Cutter Frame** and **Cutter Blades** if the tension is too high or too low.

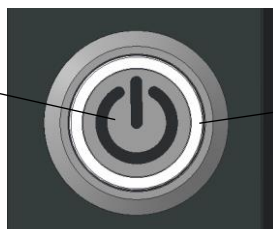
<Note> Be careful not to turn the **Tension Screws** too tight. Tightening too much may cause the **Cutter Blades** to break, which may lead to injury.



Explanation of Operation Mode Lamp Indications

- This product has a self-check function that lets the user know the condition of the machine according to how the **Operation Mode Lamp** lights up.
- The machine has a self-check function. When any trouble occurs, the machine stops automatically, and error numbers are shown on the **Display**.
- If the following troubleshooting fails to solve your problems, contact your retail store where the machine was purchased.

Power Switch



Operation Mode Lamp

Display	Indication name	Description	Troubleshooting
Off	Power OFF	Power is not supplied.	Press the Power Switch to turn ON the power.
ON	Power ON	Power is being supplied. (Operation is possible.)	If it does not turn ON, check if the power cord is connected and make sure that the Fuse is not blown and the Circuit Breaker has not tripped.
Blinking once at a time	Front Cover Error (Standby)	The Front Cover is not installed correctly.	Reinstall the Front Cover correctly.
		The Cutter Unit is not installed correctly.	Reinstall the Cutter Unit correctly.
	Front Cover Error (In operation)	The Front Cover was detached during operation, and the machine stopped.	Remove the causes of the error. After checking safety, reinstall the Front Cover correctly. Press either the right or left Start Switch to cancel the error. When the Operation Mode Lamp lights up, press the right or left Start Switch to return the Cut Base to the start position.
Blinking fast twice	Forced stoppage error	Either the right or left Start Switch was pressed during operation.	Remove the causes of the error. After checking safety, press either the right or left Start Switch to cancel the error. When the Operation Mode Lamp lights up, press the right or left Start Switch to return the Cut Base to the start position.
Blinking fast 3 times	Stirring Time Up Out	After the cutting motion started, the motion did not finish within the specified time.	Remove the causes of the stop. After checking safety, press either the right or left Start Switch . When the Operation Mode Lamp lights up, press the right or left Start Switch to return the Cut Base to the start position.

Troubleshooting Check List



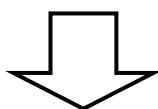
WARNING!

- When performing troubleshooting procedures below, turn off **Power Switch** and unplug unless otherwise noted.
- Do not attempt to repair or disassemble the machine.



Problems	Check Items	Troubleshooting
The Power does not turn on. (The Operation Mode Lamp does not light up.)	Is the Power Switch turned ON?	Turn on the Power Switch and make sure that the Lamp is on. 《See page 17》
	Is the Power Plug inserted into the outlet?	Plug in the Power Cord . 《See page 10》
	Is the Power Cord damaged or disconnected?	If it is damaged, request repair.
	Has the Fuse blown out?	If it has, remove the cause, and replace the Fuse . 《See page 27》
	Is the Circuit Breaker on?	If it has tripped, remove the cause, and reset the Circuit Breaker . 《See page 27》
Pressing the Start Switch does not start the machine.	Are the right and left Start Switches being pressed simultaneously?	Hold down the right and left Start Switches at the same time for at least 0.4 s. 《See page 18》
The Operation Mode Lamp blinks and the machine does not operate.	Watch how the Operation Mode Lamp blinks.	Conduct the procedure in accordance with "Explanation of Operation Mode Lamp Indications" on page 24. If it does not recover, check how components are installed, turn the power ON again, and then conduct the procedure again.
	Are the each part correctly assembled?	Correctly assemble the each part. 《See page 13 to 15》
	Is the combination of the Cutter Unit and the Cut Base appropriate?	Set a Cutter Unit and Cut Base of the same type. 《See page 13 to 15》
	Is Norimaki cut halfway still in place?	Use Norimaki within the specified size or replace the Cutter Blades . 《See page 20 to 23》

Problems	Check Items	Troubleshooting
The Norimaki cannot be cut successfully.	Is vegetable oil applied onto the Cutter Blades ?	Apply vegetable oil to the Cutter Blades . 《See page 16》
	Is the Norimaki placed on the Cut Base correctly?	Place the Norimaki on the Cut Base correctly. 《See page 17》
	Is the Norimaki too large for the Cut Base ?	The Norimaki is too large. Make the Norimaki within the predetermined size. 《See page 29》
	Is the Norimaki hard to cut?	Norimaki that uses hard food stuffs such as frozen filling or raw laver seaweed cannot be cut.
	Is the tension of the Cutter Blades properly adjusted?	Adjust the tension of the Cutter Blades . 《See page 20 to 23》
	Has the cutting quality of the Cutter Blades degraded or are they damaged?	Replace the Cutter Blades . 《See page 20 to 23》



Is still something wrong?

If the above troubleshooting fails to solve your problems, contact your retail store where the machine was purchased.

Recommended Inspection

Inspect the Machine Regularly!

Check the following items

- The **Power Cord** has cracks or is corroded.
- The **Power Cord and Plug** becomes hot.
- Operation is extremely slow.
- Burning smell emits from the **Main Unit**.
- Abnormal sound is heard from the **Main Unit**.
- Switches and Knobs are loose.
- Sometimes the machine does not operate.
- The **Circuit Breaker** is activated often.



Request

Turn off the Power Switch and unplug to prevent any accident or failure.
Contact the retail store or the distributor where the machine was purchased.

Fuse and Circuit Breaker

How to replace a Fuse

1. The **Fuse** can be found in the **Fuse holder** on the **Power Box** located on the side of the **Main Unit**.
2. Before replacing the **Fuse**, turn the **Power Switch** OFF and unplug the **Power Plug** from the Plug socket.
3. Turn the knob of the **Fuse Holder** in the counterclockwise direction to take the **Fuse** out.
4. After replacing the **Fuse**, insert the knob into the **Fuse Holder**, and then turn it in the clockwise direction tightly.

Precautions for use

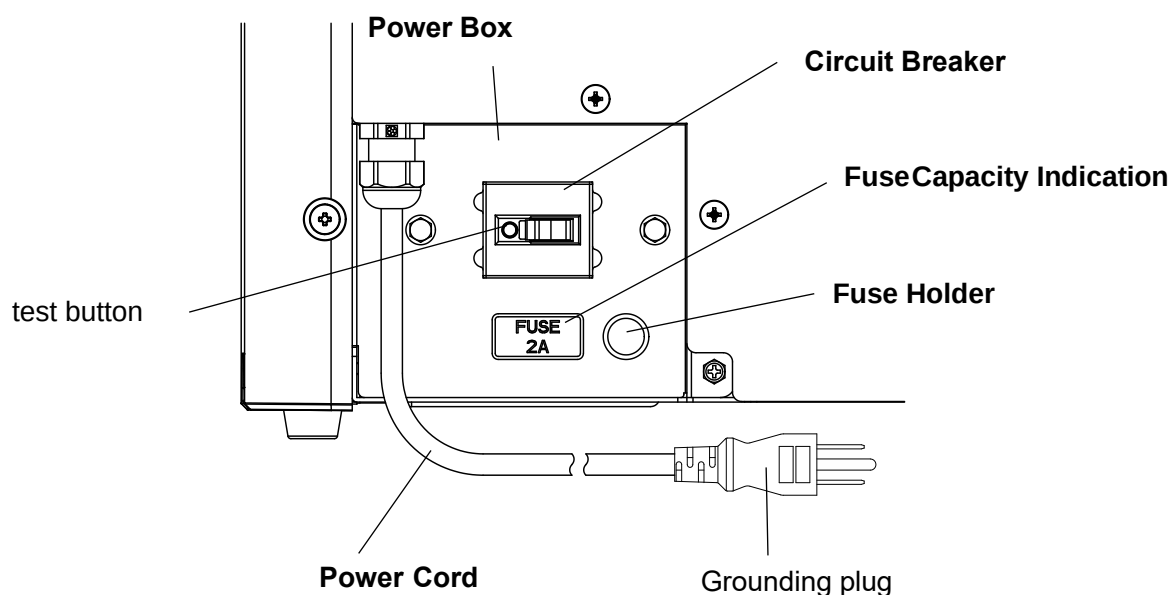
- When the **Fuse** is blown, eliminate the cause and then replace it with a **Fuse** that has the specified capacity (Fuse capacity 2A).
- If the **Fuse** blows soon after turning the Power ON, there is an abnormality inside the machine, such as a short circuit. Contact your retail store or the distributor where the machine was purchased.

How to handle a Circuit breaker

1. The **Circuit Breaker** can be found in the **Power Box** on the side of the **Main Unit**.
2. Turn the **Power Switch** OFF before operating the **Circuit Breaker**.

Precautions for use

- Make sure the **Circuit Breaker** is tested at least once each month. To do so, press the test button and confirm whether the **Circuit Breaker**.
- In order to conduct certain **Circuit Breaker** operations, remove the grounding of the **Main Unit**.
- When the **Circuit Breaker** goes OFF, resolve the cause and turn it back ON.
- If the **Circuit Breaker** goes OFF soon after turning the Power ON, there is an abnormality such as a short circuit or electrical leakage. Contact your retail store or the distributor where the machine was purchased.



Warranty & Repairs

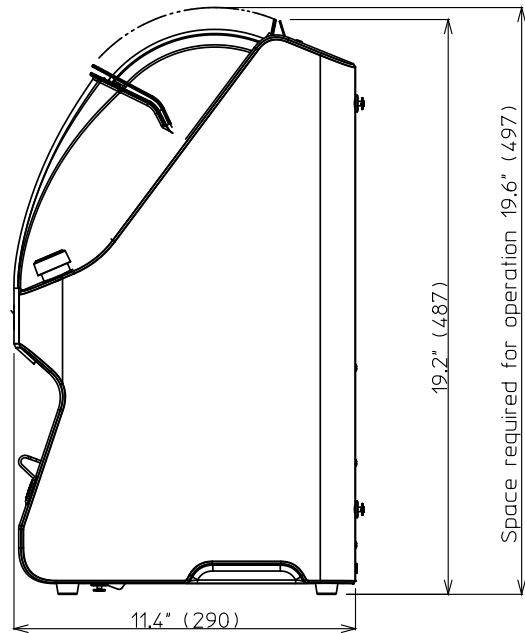
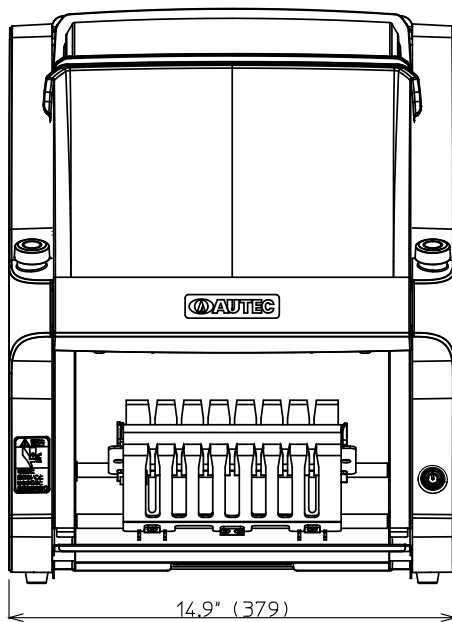
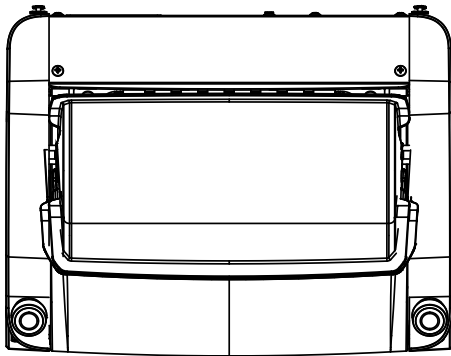
1. Please complete the attached "Owner Registration Card" and mail it to us. You will be registered as an eligible user for the warranted service and repair, and the information you provide will be stored in our database.
2. If the machine fails to function properly or breaks down within the warranty period despite proper operation as indicated in this manual and the labels on the unit, bring the machine along with the Warranty Certificate to your retail store where you purchased this product for free repair.
3. This warranty is transferable to a new owner. The new owner continues to be protected until expiration of the original purchaser's warranty period. If the appliance is moved to a new location, the warranty coverage continues. Any damage caused in transit to a new location, however, is not warranted.
4. For further information regarding repairs and after-care services, please contact your retail store or our Service Center.
5. In the following cases, repair charges will be incurred:
 - 1) Improper use; failure or damage due to unauthorized repair, alteration or modification
 - 2) Failure or damage due to dropping or improper transportation after sales
 - 3) "Owner Registration Card" has not been received by us or required information has not been provided.
 - 4) Failure or damage due to fire, earthquake, storm/flood, lightning, abnormal voltage or other natural phenomena
 - 5) Wear & tear (Teflon-coated parts, etc.)
* Teflon-coated parts are consumable parts. Re-coating or replacing these parts is subject to charge even during the warranty period.
6. This warranty is valid in U.S.A. Canada and Mexico Contact us for usage in other countries.
7. Please notify us if there is any change of your registered information such as address and owner name.
8. If the services are not available locally, please contact our Service Center.
9. For on-the-spot services, actual traveling expenses will be incurred.

For repairs after the warranty period, service charges will be incurred.

Product Specifications

Product Name	Norimaki Cutter for Commercial Use
Machine Name	MAKI CUTTER
Model Name	ASM260A
Power Source	AC110V - 120V, 50 / 60 Hz
Power Consumption	35 W
External Dimensions	Approx. W 14.9 in. × D 11.4 in. × H 19.2 in. (max. 19.6 in.) Approx. W 379 mm × D 290 mm × H 487 mm (max. 497 mm) * Excluding the Power Cord and protruding parts
Weight	Approx. 37.4 lbs. (17 kg.)
Processing capacity	Max. 600 rolls/hour * Including Norimaki setting time of 2 seconds per roll small (0.94 in. (24 mm)) 4 rolls (2400 rolls/hour) medium (1.37 in. (35 mm)) 2 rolls (1200 rolls/hour) large (1.77 in. (45 mm)) 1 roll (600 rolls/hour) * The cutting capacity varies depending on the size of the Norimaki.
Range of Norimaki sizes	Thickness: equivalent to 0.94 in. (24 mm) square to 1.96 in (50 mm) square Length: lengthwise roll (for 6/8 pieces): 7.08 in. (180 mm) to 7.48 in. (190 mm) crosswise roll (for 10 pieces): 7.87 in. (200 mm) to 8.26 in. (210 mm)
Cutting size	For 6-piece cut: 1.18 in. (30 mm) each For 8-piece cut: 0.88 in. (22.5 mm) each For 10-piece cut: 0.78 in. (20 mm) each
Fuse Capacity	2 amperes (A)
Power Cord	Grounding type Plug (9.8 ft. (3m) Cord) Inlet plug-in type

External Diagrams



- Specifications and design of the machine are liable to change without prior notice for purposes of improvement.

**AUTECH Inc.**

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