

SUSHI ROLL MACHINE FOR RICE SHEET (TSM-900RS)

Instruction Manual





For correct and safe use of the machine,
read this instruction manual carefully before use.

Model/Type	SUSHI ROLL MACHINE FOR RICE SHEET (TSM-900RS)
Dimensions	W380×D600×H500(mm)
Power supply	AC100V~240 V
consumption	120W
Weight	39 kg


x*top*

















⊙For the sake of safety, read the following carefully and make sure to follow the instructions:



●This explains the degree of risk in the case of improper handling, classified into
 WARNING and  CAUTION.


The symbols have the following meanings:




-  Prohibit
 Do not touch
 Grounding
 Follow the instructions
 Unplug
 No disassembly


 Warning: Improper handling may result in death or severe injury.







<p>Do not pull the cord when unplugging the power supply plug. ●It may break, causing a fire.</p> <p style="text-align: right;"> Prohibited</p>	<p>When you do not use the machine for a long time, make sure to unplug the power supply plug. ●It may result in an electric shock, an electric leakage or a fire</p> <p style="text-align: right;"> Unplug</p>
<p>Do not damage the power supply cord. ●Twisting, putting something on it, or inserting something in it may break it, causing an electric shock or a fire.</p> <p style="text-align: right;"> Do not damage</p>	<p>Remove all the removable parts from the main body and clean them. ●It may cause an injury or an accident.</p> <p style="text-align: right;"> Removal</p>
<p>Do not use a damaged cord or an outlet with a loose plug insert. ●It may cause an electric shock, short circuit or fire.</p> <p style="text-align: right;"> Use prohibited</p>	<p>Do not splash water on the main body other than removable parts. ●It may cause an electric shock, a short circuit or fire.</p> <p style="text-align: right;"> Prohibited</p>
<p>Avoid installing in any moist or water-logged locations. ●It may cause an electric shock, short circuit or fire.</p> <p style="text-align: right;"> Installation prohibited</p>	<p>Do not insert your hand or fingers into the hopper while operating. ●Your hand or fingers may become caught causing an injury or an accident.</p> <p style="text-align: right;"> Prohibited</p>
<p>Grounding ●Otherwise, it may cause an electric shock or an accident.</p> <p style="text-align: right;"> Grounding</p>	<p>Do not insert your hand into each roller portion during operation. ●Your hand or fingers may become caught, causing an injury or an accident.</p> <p style="text-align: right;"> Prohibited</p>
<p>Do not disassemble or alter the machine. ●It may cause an electric shock, fire or an injury.</p> <p style="text-align: right;"> No disassembly</p>	<p>Do not insert your hand or fingers into any rotating portion during operation. ●Your hand or fingers may become caught, causing an injury or an accident.</p> <p style="text-align: right;"> Prohibited</p>
<p>Insert the power supply plug firmly into the base after removing dust. ●It may cause fire or a fire.</p> <p style="text-align: right;"> Remove dust</p>	<p>Remove or mount the parts after turning OFF the power supply. ●Your hand or fingers may become caught, causing an injury or an accident. Turn OFF the power supply</p> <p style="text-align: right;"> Turn OFF the power supply</p>
<p>As soon as you notice any gas leakage, open your windows without touching the main body or the power supply plug. ●A spark from electric contact may cause an explosion or fire.</p> <p style="text-align: right;"> Ventilate</p>	<p>Prevent babies and children from touching it. It may cause an injury or an accident.</p> <p style="text-align: right;"> Do not touch</p>

<p>Under any abnormal conditions such as a burnt smell, immediately unplug the power supply plug and suspend operation.</p> <p>● Continuous operation under abnormal conditions may cause an electric shock or a fire.</p> <p style="text-align: right;"> Unplug</p>	<p>Do not put anything other than rice or vinegared rice into the hopper.</p> <p>● It may cause an injury or an accident.</p> <p style="text-align: right;"> Prohibited</p>
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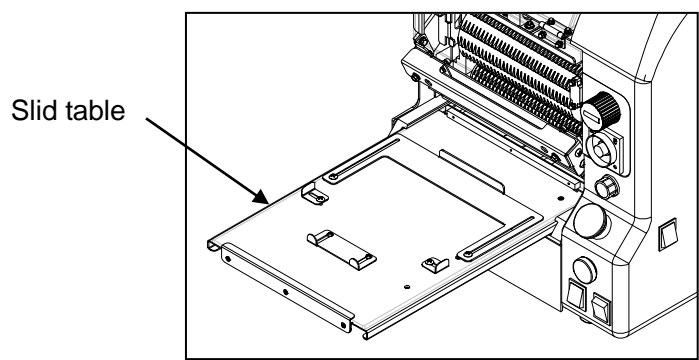
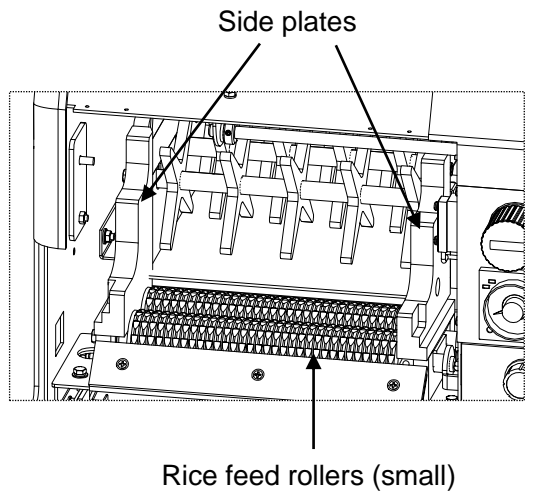
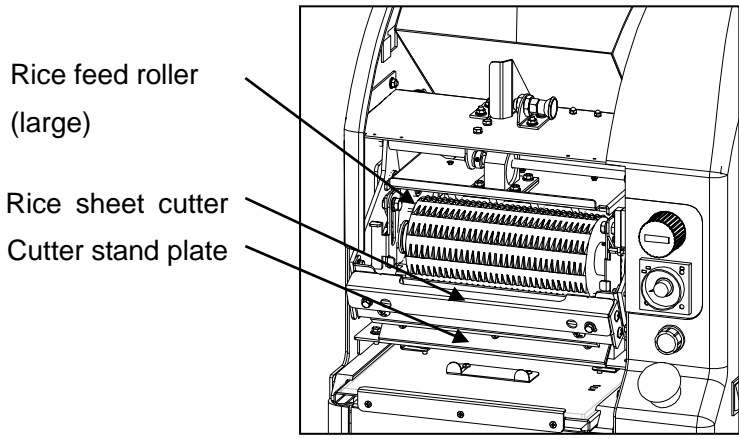
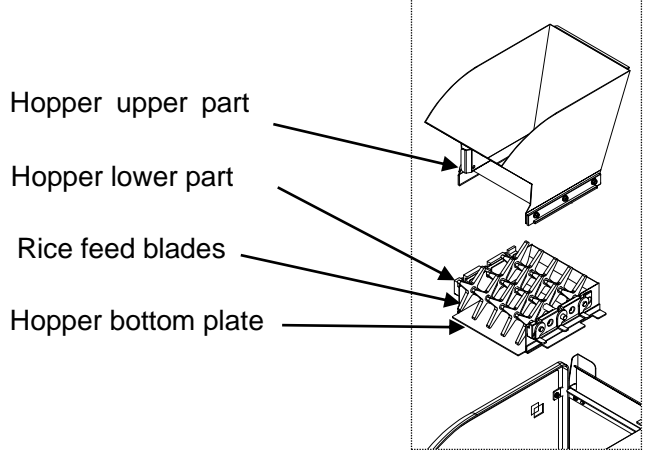
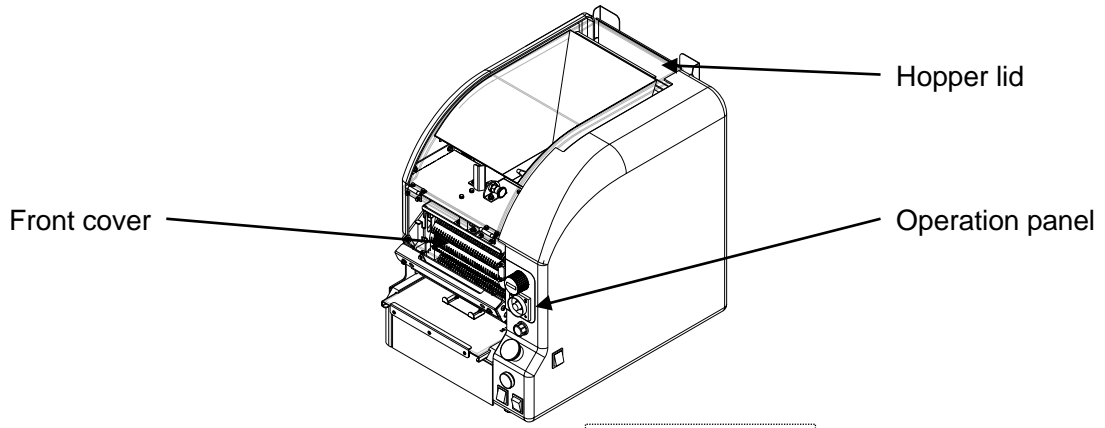
 **Caution: Improper handling may result in death or severe injury.**

<p>Use it under the supervision of a person who understands machinery management.</p> <p>● Using without proper understanding may cause an injury or an accident.</p> <p style="text-align: right;"> Understand</p>	<p>Hold firmly when transferring or transporting it.</p> <p>● The machine may drop causing an Injury or an accident.</p> <p style="text-align: right;"> Hold firmly</p>
<p>Do not touch the built-in heater.</p> <p>● It may result in a burn.</p> <p style="text-align: right;"> Prohibited</p>	

 **Caution: Improper handling may result in failure of the machine or damage to buildings and household effects.**

<p>Do not wash the Teflon coated machine parts with a hard brush or hard sponge.</p> <p>● It may cause peeling of the Teflon coating.</p> <p style="text-align: right;"> Prohibite</p>	<p>Do not damage parts.</p> <p>● It may prevent the normal Assembly of parts and cause problems.</p> <p style="text-align: right;"> Prohibited</p>
<p>Wipe off any oil or fat sprayed on the machine main body other than the removable parts.</p> <p>● It may result in deterioration or the breakage of parts.</p> <p style="text-align: right;"> Wipe off</p>	<p>Install the machine at a solid and flat location</p> <p>● A fall of the machine may damage the machine itself or the building or cause an injury or an accident.</p> <p style="text-align: right;"> Install horizontally</p>
<p>Do not wash the removed resin or plastic parts in a dishwasher or in hot water.</p> <p>● It may deform or damage the parts.</p> <p style="text-align: right;"> Prohibited</p>	<p>Firmly hold when transferring or transporting the machine.</p> <p>● A fall of the machine may damage the machine itself or the building.</p> <p style="text-align: right;"> Firmly hold</p>

Parts Name



Disassembly



Be sure to turn off the **POWER** switch when removing/attaching parts.

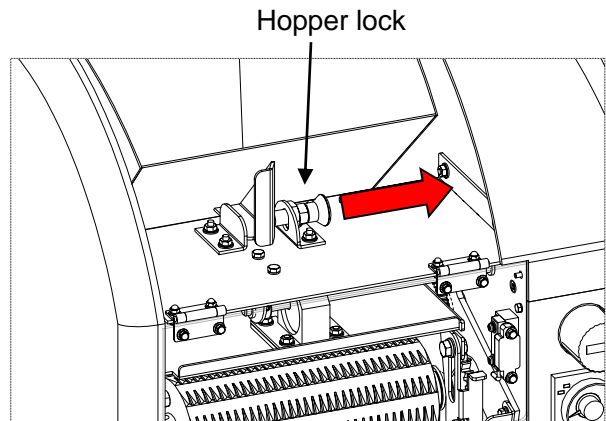
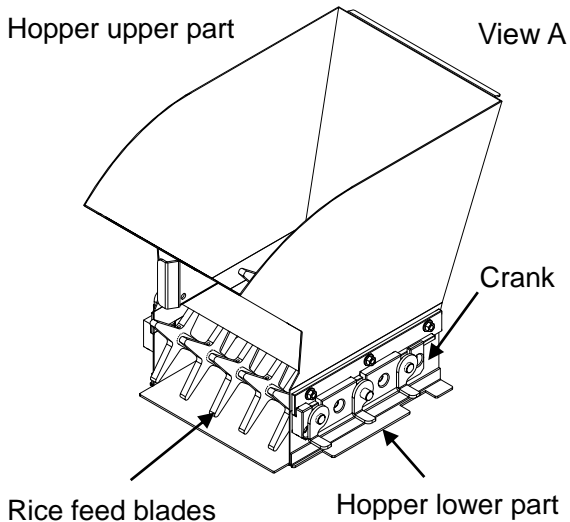
Never insert your hand into the hopper while the power is on. Otherwise your hand may get caught in the roller and seriously injured.



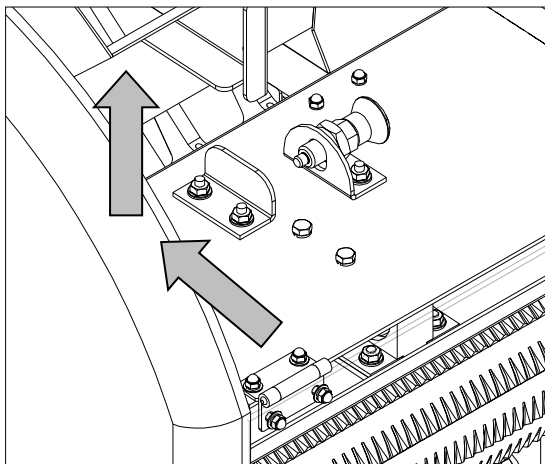
Avoid washing any removed part with a metal brush or a hard sponge to prevent damage to the Teflon coating.

Avoid washing any removed part in a dishwasher to prevent deformation and damage.

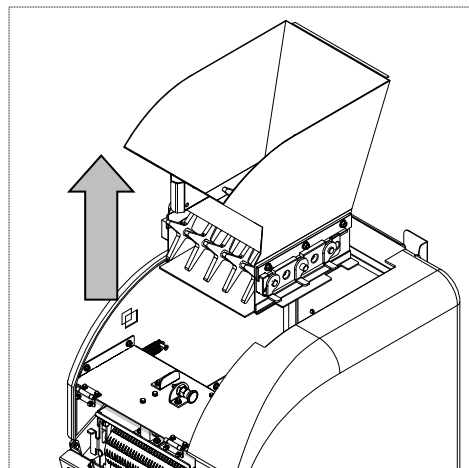
How to remove the hopper



(1) Release the hopper lock.

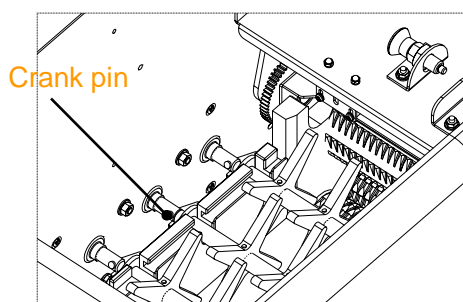


(2) Slide the hopper backward by approx. 2 cm.



(3) Remove the hopper upward from the main body, while holding its front and rear sides.

* When you cannot remove it, the crank (Photo A) is caught on the crank pin (Photo on the left); slightly rotate the rice feed blades to remove the hopper.



Disassembly



Be sure to turn off the **POWER** switch when removing/attaching parts.

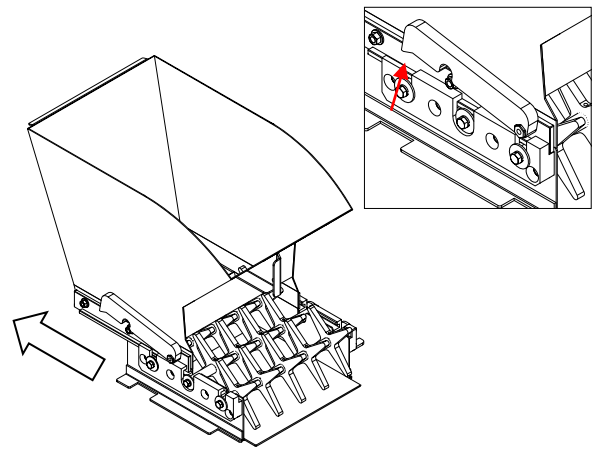
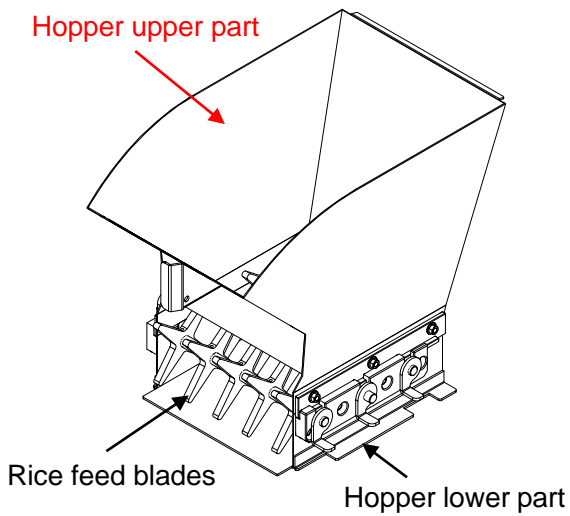
Never insert your hand into the hopper while the power is on. Otherwise your hand may get caught in the roller and seriously injured.



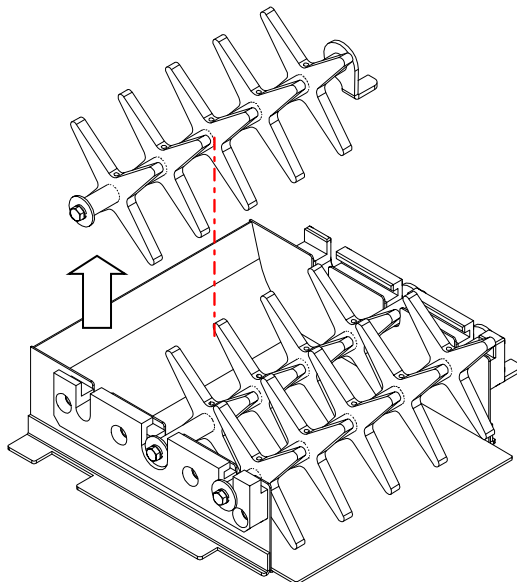
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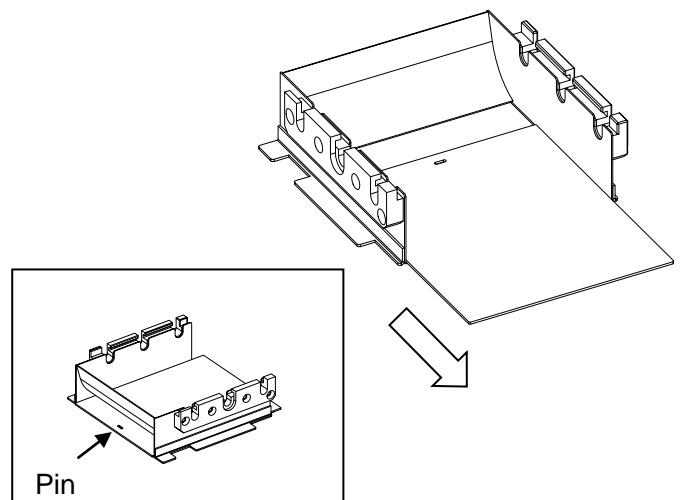
How to remove the hopper upper/lower parts, the bottom plate and the rice feed blades



(1) Slide the hopper upper part backward and remove it from the hopper lower part.



(2) Remove the three rice feed blades upward.



(3) Remove the hopper bottom plate from the hopper lower part.

* The pin of the hopper lower part is inserted in the hole at the rear of the base bottom plate; slightly lift the plate and remove it forward.

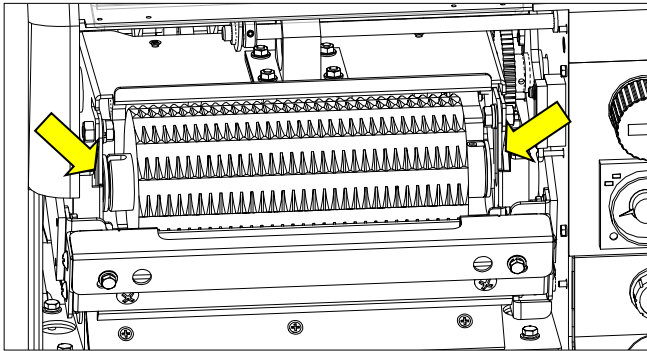
Disassembly



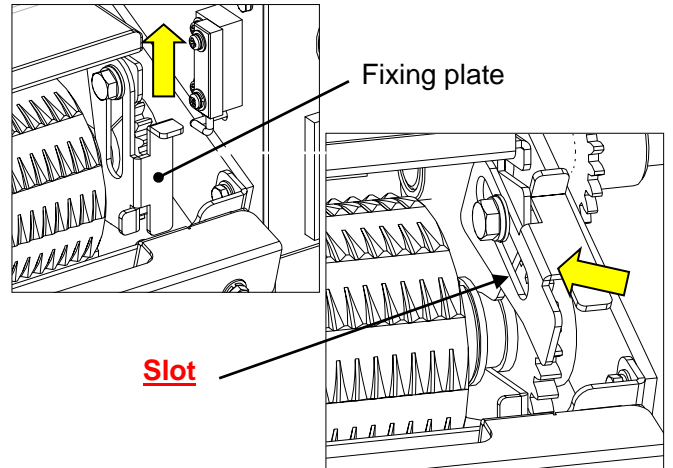
Be sure to turn off the **POWER** switch when removing/attaching parts.

Never insert your hand into the roller while the power is on. Otherwise your hand may get caught and seriously injured.

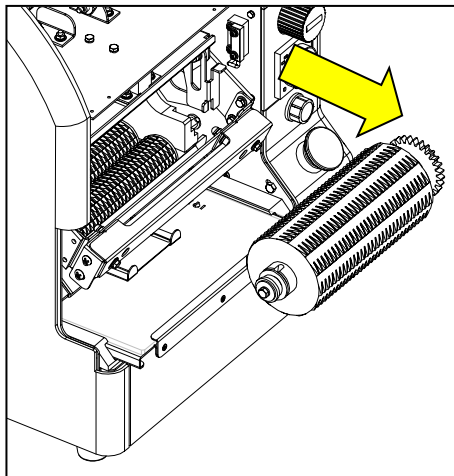
How to remove the rice feed roller (large) and the side plates



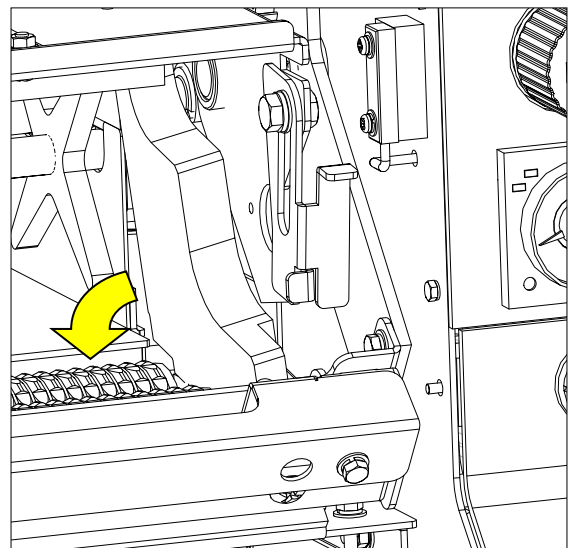
- (1) Open the front cover upward and lift the knobs (marked by the arrows) to unlock the fixing plates.



- (2) Insert the right and left unlocked fixing plates in the upper slots.



- (3) Holding the roller center, remove the roller from the main body.



- (4) Push down the right and left side plates to remove.

*** When the front cover is open, the machine does not operate even if the power is on.**

Disassembly

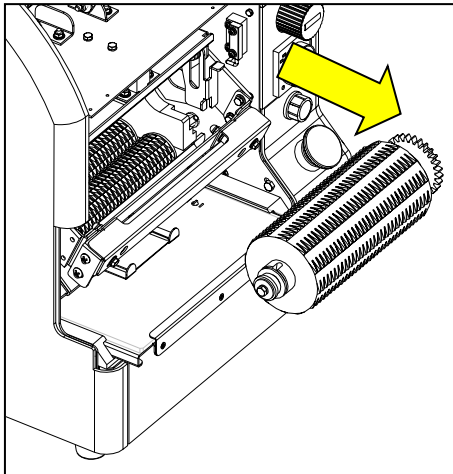


Be sure to turn off the **POWER** switch when removing/attaching parts.

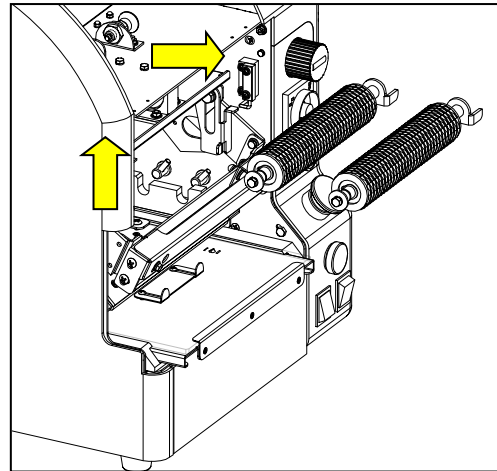
Never insert your hand into the roller or the sliding table while the power is on.

Otherwise your hand may get caught and seriously injured.

How to remove the slid table and the rice feed rollers (small)



(1) Pull the slid table in the arrow direction to remove.



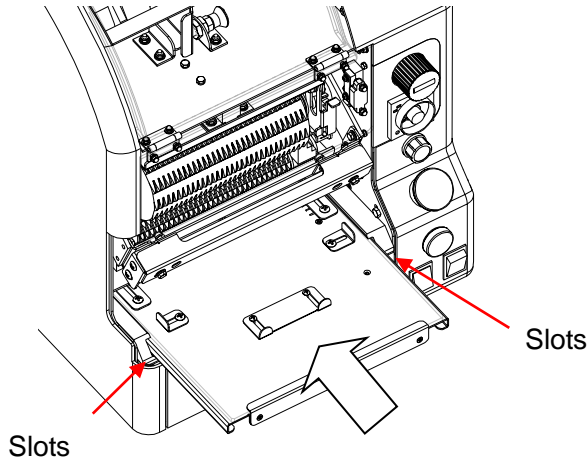
(2) Push up each rice feed roller (small) to remove.

Assembly



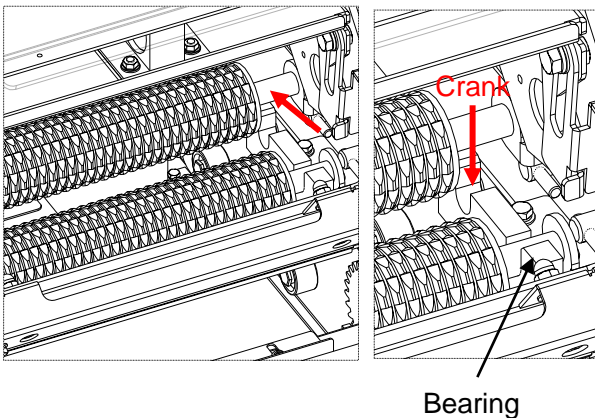
Be sure to turn off the **POWER** switch when removing/attaching parts to prevent injuries and accidents.

How to attach the slid table



Fully insert the slid table into the slots on the right and left of the main body.

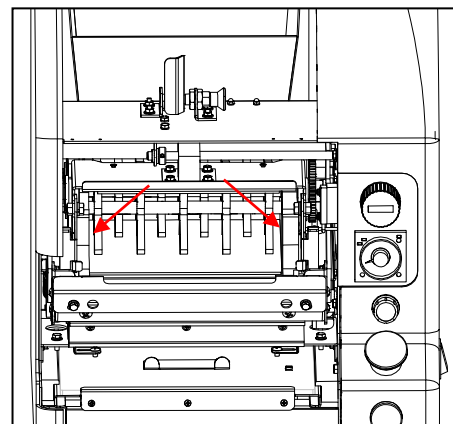
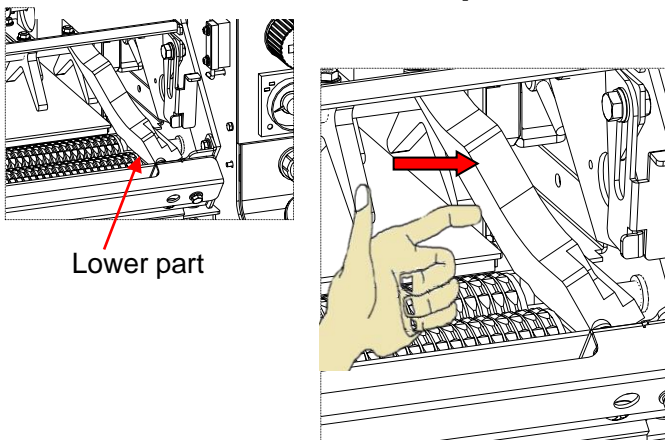
How to attach the rice feed rollers (small)



Attach the rice feed rollers (small) onto the bearing of the main body.

* Place the crank (attached to the roller) on the right.

How to attach the side plates



(1) Insert the lower part of each side plate in the side of the rice feed roller (small) and press the upper part.

(2) Attach the right and left side plates in the same way.

* Be careful not confuse the right and the left.

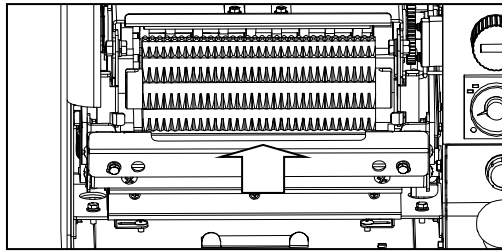
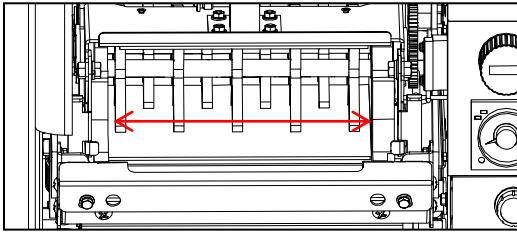
Assembly



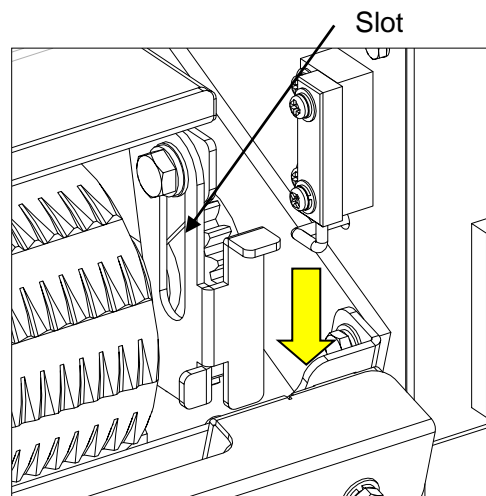
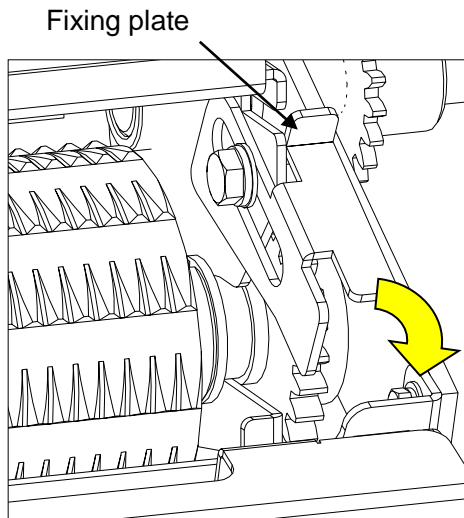
Be sure to turn off the **POWER** switch when removing/attaching parts.

Never insert your hand into the roller while the power is on. Otherwise your hand may get caught and seriously injured.

How to attach the rice feed roller (large)



(1) Insert the rice feed roller (large) between the right and left side plates.



(2) Pull and press down the right and left fixing plates and then insert them into the slots.

● Fully insert the rice feed roller (large). Otherwise you cannot insert the fixing plates in the slots.

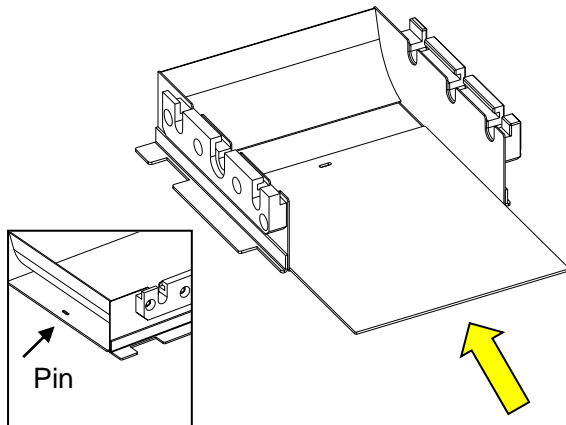
Assembly



Be sure to turn off the **POWER** switch when removing/attaching parts.

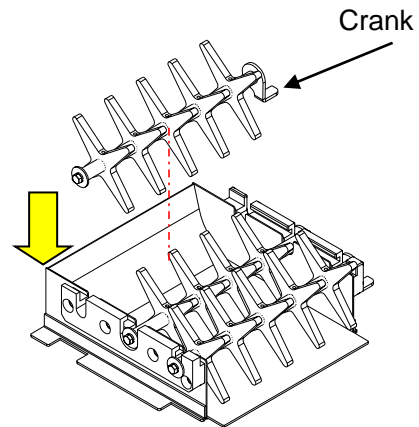
Never insert your hand into the hopper while the power is on. Otherwise your hand may get caught in the roller and seriously injured.

How to attach the hopper upper/lower parts, the hopper bottom plate and the rice feed blades



(1) Fully insert the hopper bottom plate into the hopper lower part.

* Fit the pin on the hopper lower part into the hole on the bottom plate.

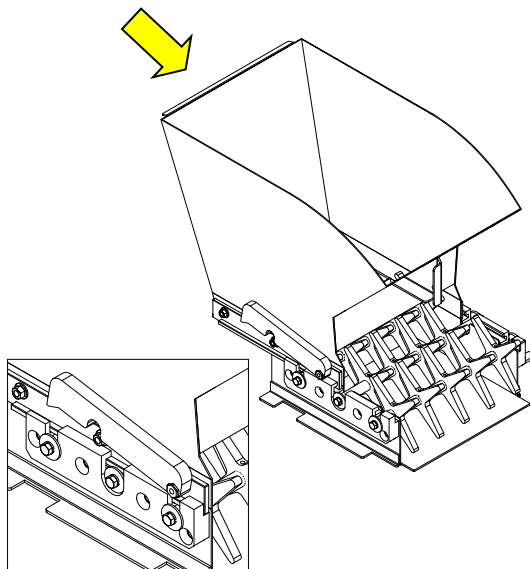


(2) Attach the three rice feed blades.

Front and rear : Five-blade type

Center: Four-blade type

* Place the crank on the right side.



(3) Fully insert the hopper upper part in the hopper lower part from the rear.

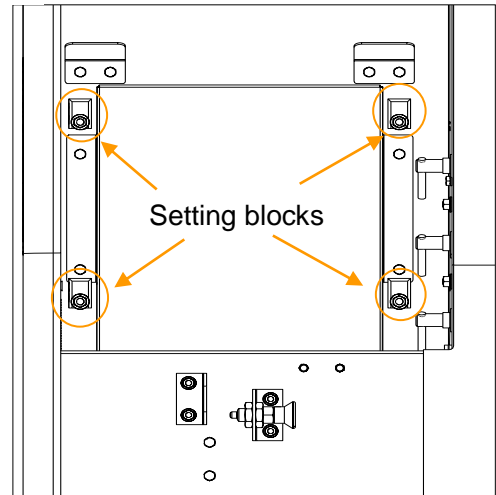
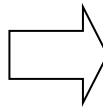
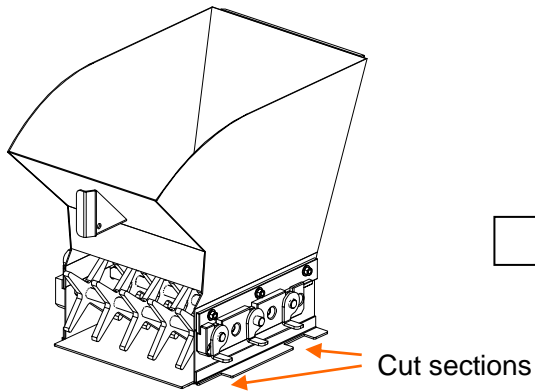
Assembly



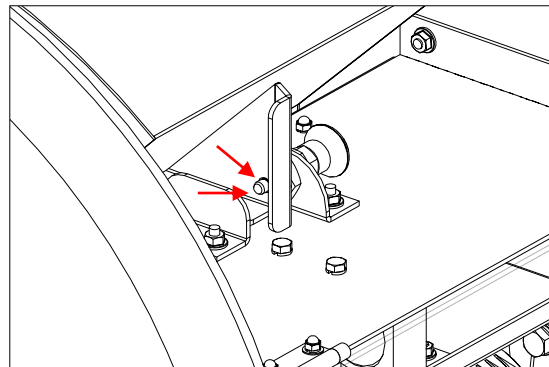
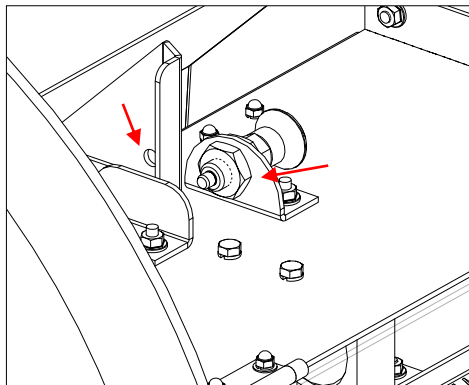
Be sure to turn off the **POWER** switch when removing/attaching parts.

Never insert your hand into the hopper while the power is on. Otherwise your hand may get caught in the roller and seriously injured.

How to attach the hopper



- (1) Fit the cut sections (on the right and left) on the hopper lower part with the setting blocks on the main body and place the hopper horizontally.



- (2) Pull the hopper to insert the pin into the hole.

* Securely fit the setting blocks into the cutting section. Otherwise you cannot insert the pin into the hole.

Disassembly/Assembly Procedure



Be sure to turn off the POWER switch when removing/attaching parts to prevent injuries and accidents.

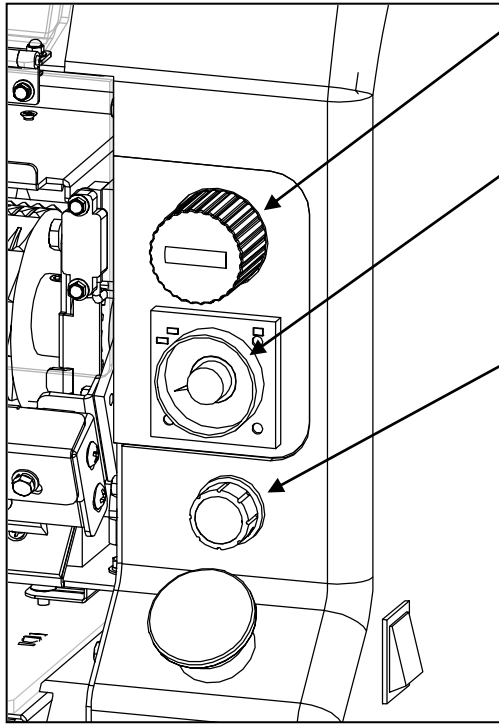
Disassembly procedure

- (1) Remove the hopper lid.
- (2) Remove the hopper from the main body.
 - * Then disassemble the hopper into the hopper upper/lower parts, the hopper bottom plate and the rice feed blades.
- (3) Remove the rice feed roller (large).
- (4) Remove the side plates. *For the normal-wide combination type, remove the roller guides as well.
- (5) Remove the slid table.
- (6) Remove the rise feed rollers (small).

Assembly procedure (*Before assembly, be sure to lower the rice sheet cutter.)

- (1) Attach the slid table.
- (2) Attach the rice feed rollers (small).
- (3) Attach the side plates. *For the normal-wide combination type, attach the roller guides as well.
- (4) Attach the rice feed roller (large).
- (5) Assemble the hopper upper/lower parts, the hopper bottom plate and the rice feed blades. Then attach the hopper.
- (6) Attach the hopper lid.

Operation Panel



■ **THICKNESS**

Turn the dial clockwise to increase the rice thickness; turn it counterclockwise to decrease the thickness.

■ **LENGTH**

Turn the dial clockwise to increase the rice sheet length; turn it counterclockwise to decrease the length.

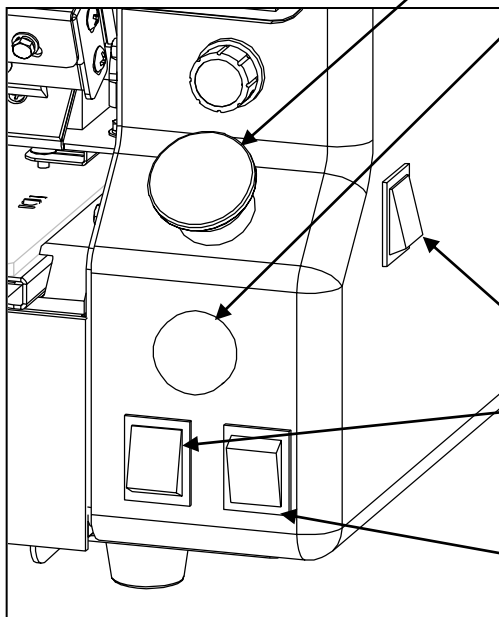
* Rice sheet length: Within 18 cm

■ **DENSITY**

This dial works with the rice feed blades in the hopper; turn it to "HARD" to increase the blade rotation speed. The rice amount to sheet roller is increased.

When the rice is fed loosely, turn the dial to "clockwise"; when the rice sheets fed thick and pressed, turn it to "counterclockwise". Turn the dial by half scale at a time.

● Normally, set the dial to "5" for small sushi rolls; "6" for medium rolls; and "7" for large rolls.



■ **START**

Press the button to start one operation.

■ **EMERGENCY STOP**

Press the red button to stop the machine immediately.

To activate the machine again, turn the red button clockwise.

The button pops out and the lock is released.

■ **POWER**

To turn on/off the power.

■ **CUTTER**

Set the switch up to raise the cutter; set the switch down to lower the cutter.

■ **WARMER(INSULATE)**

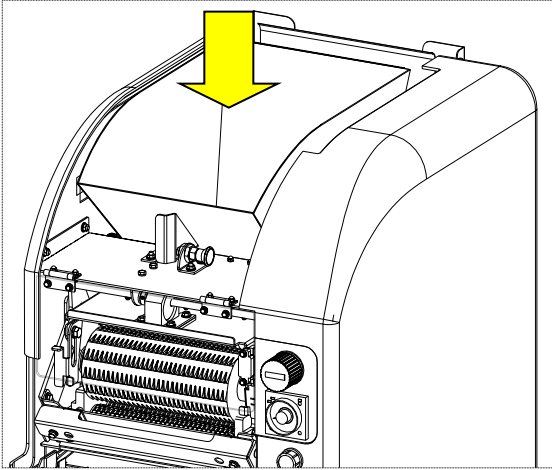
Set the switch to "ON". Then the heater at the base of the hopper lower part turns on to keep the rice warm.

Important

Although the heater keeps the rice warm (approx. 35°C) for a certain time, the rice gradually gets cold with time.

Never warm the cold rice again to prevent rot and deterioration

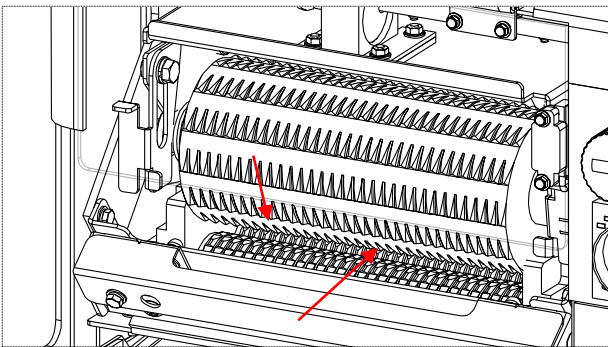
Applying Oil before/during Use



- (1) Spray oil in the hopper and onto the rice feed blades.



Never insert your hand in the hopper to prevent danger.

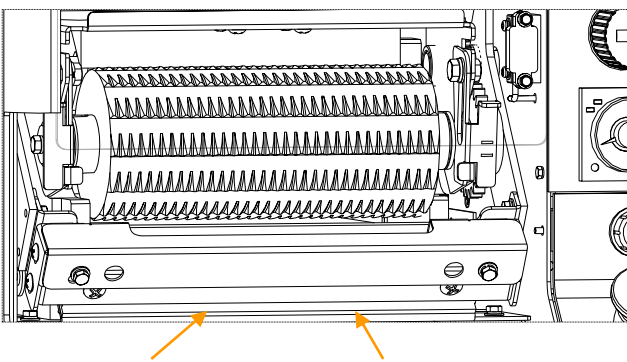


- (2) Remove the rice feed rollers (large and small) before use. Apply the oil once sprayed onto your palm to the rollers.

* If you fail to apply the oil:

- The rice sheet may be rolled toward the roller (large).**
- The rice may get caught in the rice sheet cutter.**
- The rice may be fed loosely.**
- The length of the rice sheet may become shorter.**

© In the above cases, follow the procedure (2) above to remove the rice adhering to the rollers (large and small).



- (3) Before use, apply the oil once sprayed onto your palm to the rice sheet cutter and the cutter stand plate.

* If you fail to apply the oil:

- The rice may get caught in the cutter.**
- The rice may not be smoothly placed on the sliding table.**
- The rice sheet cutter may become blunt.**



Never insert your hand into the hopper while the power is on. Otherwise your hand may get caught in the roller and seriously injured.

Operation Procedure

- (1) Check that the EMERGENCY STOP button is not pressed.
- (2) Turn on the POWER switch. If necessary, turn on the “WARMER” switch to operate the heater.
- (3) Put sushi rice into the hopper.
- (4) Set the THICKNESS dial.
- (5) Set the LENGTH dial.
- (6) Set the DENSITY dial.
- (7) Press the START button to idle the machine two or three times.

- Before use, spray oil in the hopper.
Apply oil to the rice fee rollers (large and small), the rice sheet cutter and the cutter stand.
 - * After installation, be sure to apply oil to the parts of the machine.
 - * In some cases, you may not have to apply oil to the parts.
 - * If the rice adheres to the parts, apply oil.
- When the sushi rice amount in the hopper gets low, the alarm sounds; for continuous operation, supply sushi rice in the hopper.
The alarm does not stop automatically; when not adding sushi rice, press the EMERGENCY STOP button.

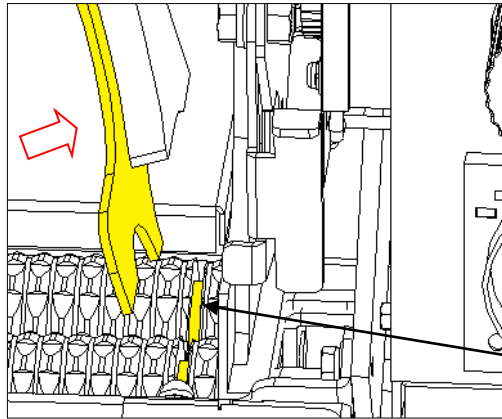
Normal/Wide Switching Method (for the normal-wide combination type)



Be sure to turn off the POWER switch when removing/attaching parts.

Never insert your hand into the hopper while the power is on. Otherwise your hand may get caught in the roller and seriously injured.

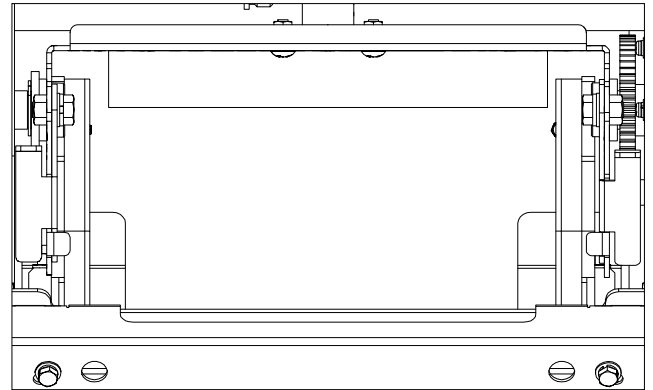
● Normal type (Set the right and left roller guides.)



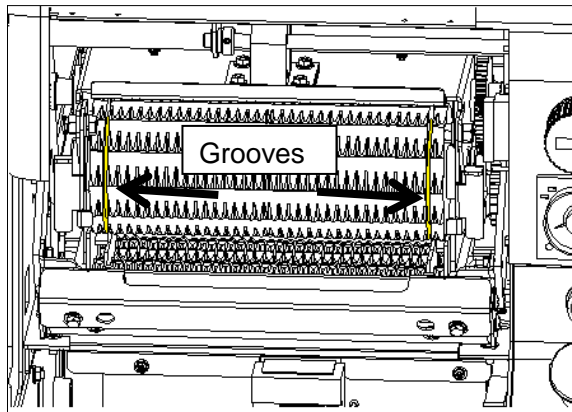
(1) Insert the roller guide lower parts in the grooves of the roller (small).



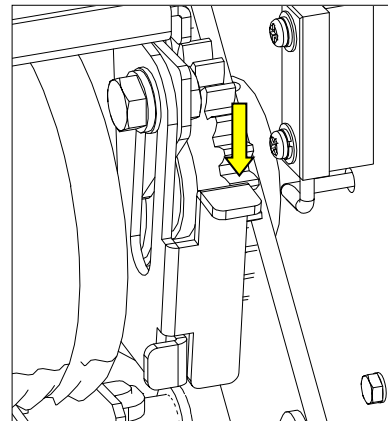
Roller Guide



(2) The roller guides are set.



(3) Fully insert the roller guides in the right and left grooves of the roller (large).



(4) Set the plates on the right and left sides of the roller (large).

● Wide type (Remove the right and left roller guides)

- Be sure to turn off the POWER switch for safety to remove the parts.

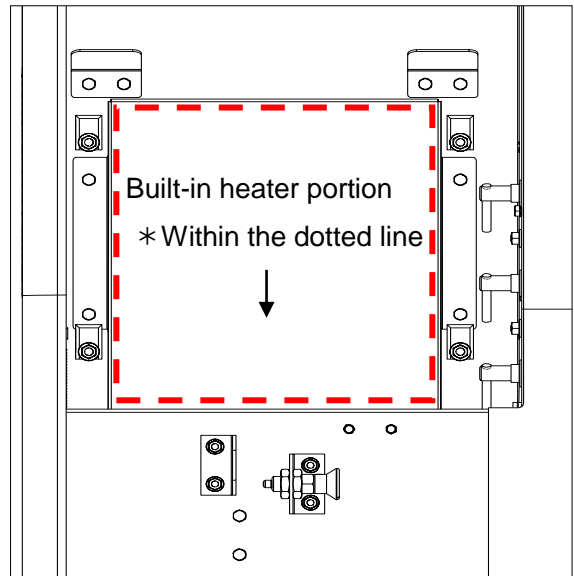
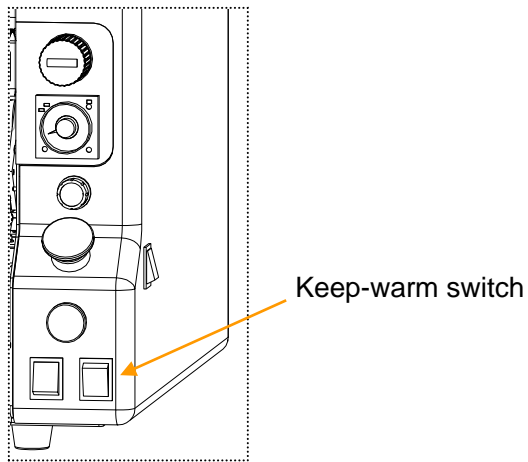
Normal/Wide switching during operation

- When switching from “Normal” to “Wide”, remove the roller (large). Then remove the right and left guides from the rollers (small) while leaving the rice remaining on the rollers (small).
- When switching from “Wide” to “Normal”, remove the roller (large). Then remove the rice remaining on the roller (small) and set the right and left roller guides.

Keep-warm Heater



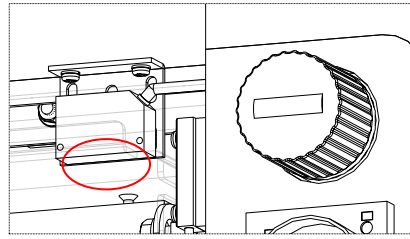
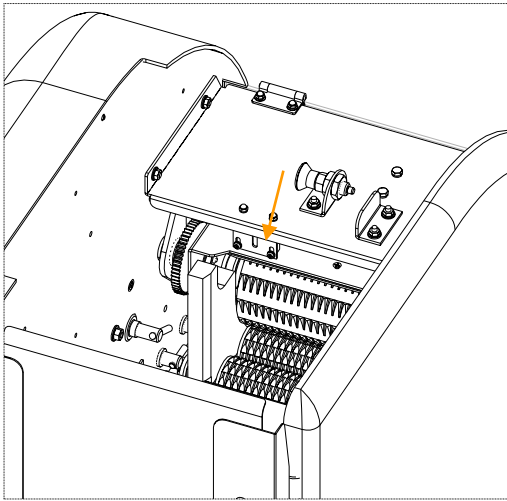
Be careful not to directly touch the built-in heater portion with your hands as it becomes very hot.



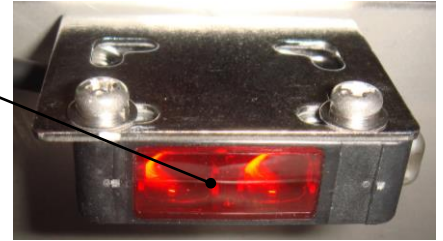
- ① Turning the WARMER (INSULATE) switch ON turns ON the built-in keep-warm heater.

* It takes about five minutes until it becomes completely warm.

Sensor



Lens



(1) The sensor for the rice feed blades in the hopper is installed at the main body (as shown by the arrow in the photo).

* The sensor detects the amount of the rice remaining on the rear part of the rice feed roller (large). When the amount decreases, the rice feed blades automatically rotates to maintain a constant amount of the rice.

(2) The sensor emits light downward through the red lens.

* Detecting rice or dirt adhering to the lens, the sensor stops rice fee automatically; wipe the lens every day to keep it clean.

Never pour water or spray oil onto the sensor.



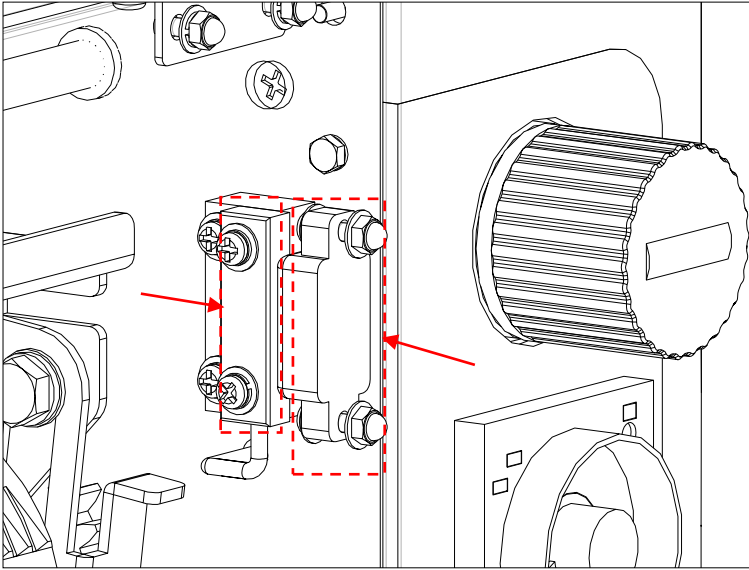
If oil, rice, etc. adhere to the red lens, malfunctions may occur, causing rotation of the rice feeding blades to stop.

Wipe the red lens with wet cloth.

Safety Switch



Be sure to turn off the **POWER** switch when removing/attaching parts to prevent injuries and accidents.



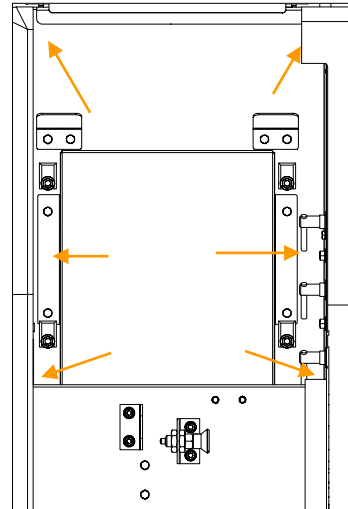
- ①When you open the front cover, the safety switch disables the machine to start up.

Cleaning Manual



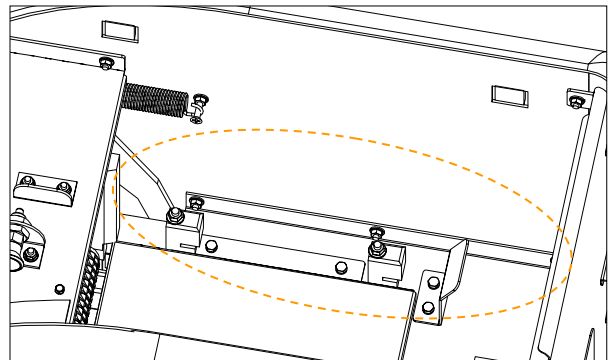
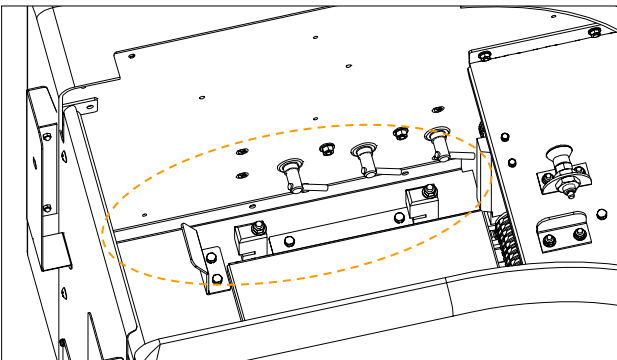
Be sure to turn off the **POWER** switch when cleaning the parts of the main body.
Otherwise your hand may get caught in the roller and seriously injured.
Never clean the main body with water to avoid electric shock and failure.

Hopper installation area



(1) Clean the parts with the provided brush.

(2) Clean the hopper installation area (marked by the arrows) on the main body with the provided brush.

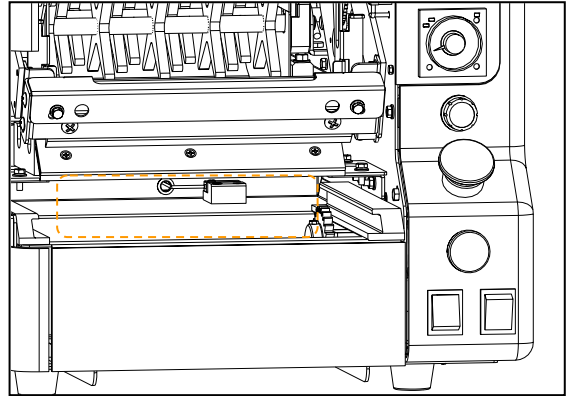
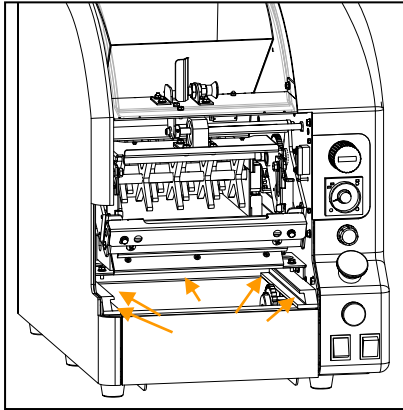


Cleaning Manual

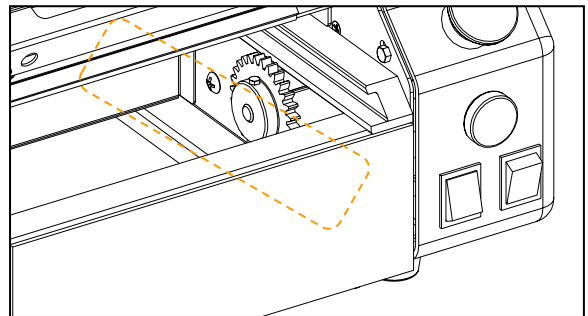
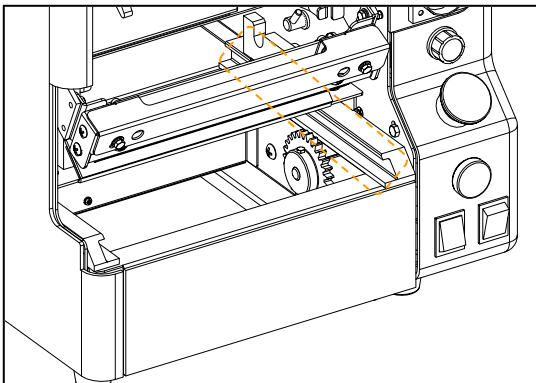


Be sure to turn off the POWER switch when cleaning the parts of the main body.
Otherwise your hand may get caught in the roller and seriously injured.
Never clean the main body with water to avoid electric shock and failure

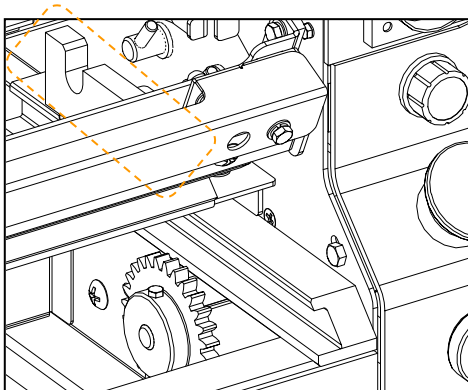
Sliding table area



Clean the sliding table area (marked by the arrows)
with the provided brush.



Rice feeding rollers (small) area



Clean the rice feed roller (small) installation area
(right and left) with the provided brush.

Circuit Protector

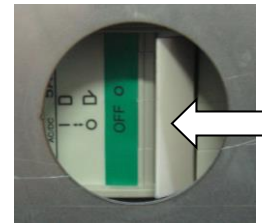
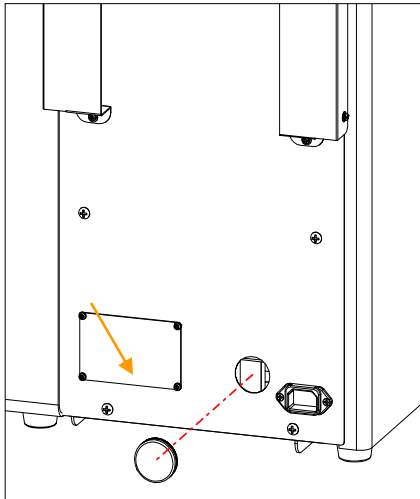


When maintaining the machine, be sure to turn off the **POWER** switch to prevent electric shocks and injuries.

How to restore the circuit protector

For safety and protection of the machine, a circuit protector is installed on the back side of the main body.

When abnormal current flow or electric leakage occurs, the circuit protector functions to turn off the power; follow the procedures below to restore the protector.



(1) Turn off the **POWER** switch and remove the black rubber cap on the back side of the main body.

(2) If the circuit protector is off, press the position marked by the arrow to turn it on.



(3) After turning on the protector, turn on the **POWER** switch again.

* If the circuit protector often turns off, please consult with your distributor.

Part Replacement

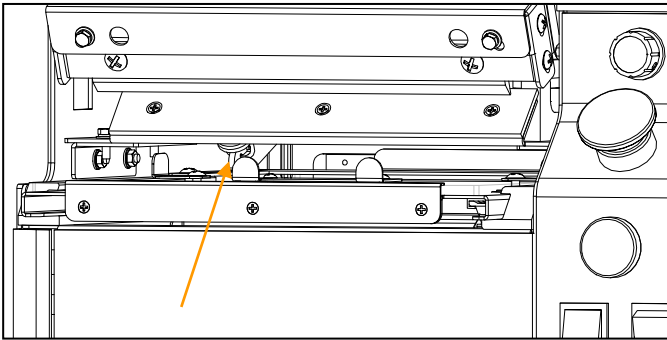


When replacing parts, be sure to turn off the **POWER** switch to prevent electric shocks, injuries or accidents.

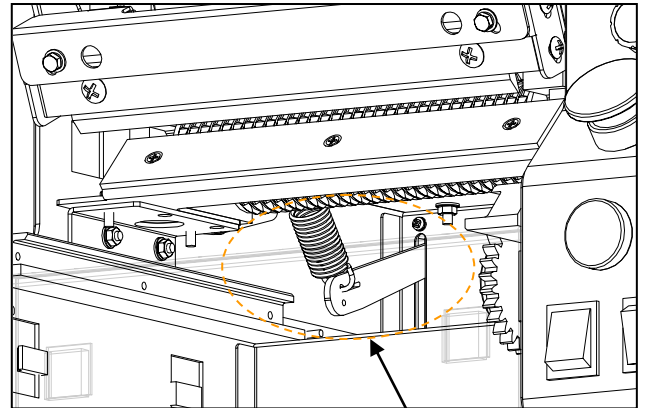
Rice sheet cutter spring

* For safety, a spring is built in the rice sheet cutter.

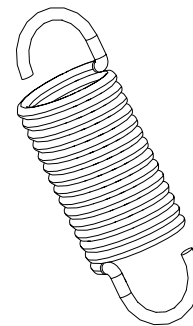
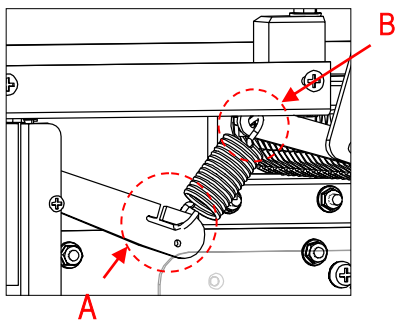
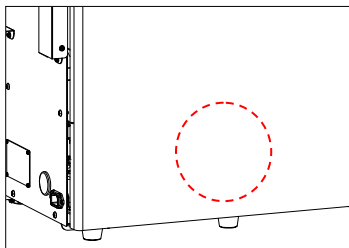
When the spring is broken, the cutter does not operate; replace the spring with a new one by the following procedure.



(1) The spring is attached to the left side of the main body (marked by the arrow).



Rice sheet cutter spring



Rice sheet cutter spring

(2) Remove the broken spring located between "A" and "B". Then hang hooks of a new spring on "A" and "B".

* One spare spring is provided in the kit.
If necessary, please order spare springs from your distributor.

Troubleshooting

1. Power is not turned on. (The POWER switch does not light up.)

- Check that the power cord is securely plugged into the outlet.
- Check that your breaker is not thrown.
- Check that the circuit protector is turned on. ***See Page 22.**

2. The machine does not operate when the POWER switch lights up.

- Check that the red EMERGENCY STOP button is not pressed down. ***See Page 13.**
- Due to continuous use of the machine for long hours, the high-temperature shut-off function installed in the main body may operate; turn off the POWER switch and after a while start the machine again.
- Check that the front cover is closed. ***See Page 1.**

3 The rice sheet cutter repeats up-and-down movements.

- Press the EMERGENCY STOP button to stop the machine.

4. Rice gets caught in the rice sheet cutter and the cutter stand plate.

- Apply oil to the rice sheet cutter and the cutter stand plate. ***See Page 14.**

5. The rice flows separately or in short length.

- Remove the rice feed rollers (small) from the main body and clean them with water. Then apply oil to the rollers and attach them to the main body. ***See Page 14.**

6. Rice turns back to the rice feed roller (large).

- Remove the rice feed roller (large) from the main body and clean it with water. Then apply oil to the roller and attach it to the main body. ***See Page 14.**

7. The rice feed blades in the hopper do not rotate.

- Check that the DENSITY dial on the operation panel is not set to "0". ***See Page 13.**
- Check that the lens of the sensor for the rice feed blades is clean. ***See Page 18.**

8. The rice sheet cutter does not move down.

- The spring of the safety device is broken; replace it with a new one. ***See Page 23.**

9. Even if the rice sheet length timer is set, rice does not stop flowing or only a small amount of rice is supplied.

- The timer (LENGTH) is defective due to humidity or splashed water; replace it with a new one.