

**Model
HC-77A**



Hatsuyuki Cube Ice Shaver

TRANSFER (RE-SALE) OF MACHINE



Should you sell or give the machine to a 3rd party, make sure that this "OPERATION MANUAL" goes with it for safe and correct operation.

- * Before operating this machine, please read and understand the instructions specified in this manual for proper and safety use.
- * Retain this manual for your immediate and future references.
- * For maintenance and repairs, please contact the manufacturer (Chubu Corporation) or the local distributors from whom you purchased the products.

CHUBU CORPORATION




FOR SAFETY

- Before operating the machine, please read the following "Instructions for Safety" in the manual very carefully, and operate the machine correctly.
- Each instruction specified in the manual is very important for safety, so be sure to follow each instruction as specified.
- Attention marks and their meanings are as follows.

	WARNING Incorrect operation of machine is dangerous and can cause serious injury or death.
	CAUTION Incorrect operation of machine is dangerous and can cause injury of person or material damages.

Note: "Material damages" means damages to buildings, furniture and effects, pets, etc.

Examples of Mark / Pictograph

 Electric Shock	△ represents "CAUTION" (including danger and warning). The specific contents of caution are shown near the △ mark by pictograph or letters. The mark illustrated left represents "ELECTRIC SHOCK".
 Do Not Disassemble	⊘ represents "PROHIBITED OPERATION". The specific contents of "Prohibited" are shown within or near this ⊘ mark by pictograph or letters. The mark illustrated at left represents "DO NOT DISASSEMBLE".
 Unplug	● represents "ENFORCEMENT" (Things to do). The specific contents of "Enforcement" are shown within or near ● the mark by pictograph or letters. The mark illustrated at left represents "Unplug from outlet".

WARNING

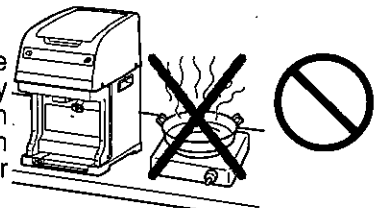
Be sure to ground (earth) the machine.

Never connect a ground wire (earthing) to gas pipes, water pipes, lightning rods or telephone cord/grounding wires. An incomplete grounding (earthing) is dangerous and can cause severe electric shock.



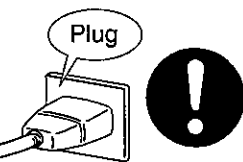
Do not install/place the machine close to any heating appliance.

Never install/place the machine close to any heating appliance such as a gas burner. It can cause melting and/or burning of plastic cover.



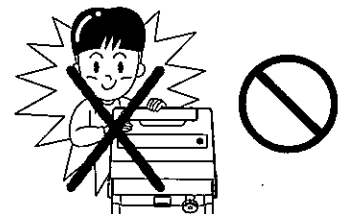
Dedicated (Exclusive-use) outlet.

Always use an outlet dedicated to each machine. Never use extension cords or connect the unit to other power supply cords. Never connect several or many plugs into the same outlet. It may cause power supply cord to overheat and melt/burn or electric shock or fire.



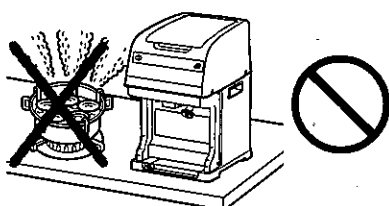
This machine is for "COMMERCIAL USE".

Be sure to keep the machine away from children to avoid electric shock or injury.



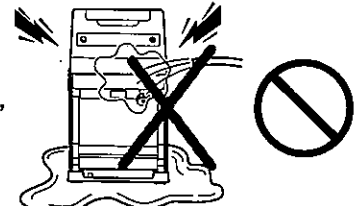
Do not install the machine in a damp or wet place.

It can cause electric bleeding or electric shock.



Do not pour water over the machine or immerse machine in water.

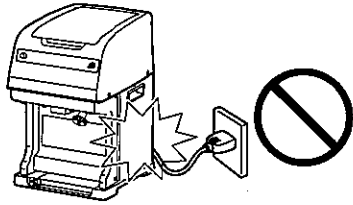
It can cause a short circuit or electric shock, as well as rust and other water related problems.



⚠ WARNING

Do not damage power supply cord.

Never work on power cord and never pull, twist or bundle it. Do not place a heavy things on it. It can damage the power cord and can cause electric shock or fire.

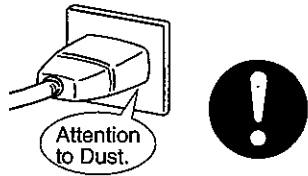


Should accidents or irregular operation occur, TURN OFF the main switch and unplug from outlet. Immediately contact your machine vendor for a correct repairs. Continued operation of a faulty machine can/will cause electric shock or fire.



Keep plug clean and plug into outlet correctly.

Always keep plug clean and plug into outlet correctly. Dirty plugs or imperfectly connected plugs can cause electric shock or fire.



For cleaning inside the ice hopper or changing blades, be sure to TURN OFF the main switch and always put on gloves while cleaning/changing blade works. Never touch blades directly. They are very sharp and can cause injury.

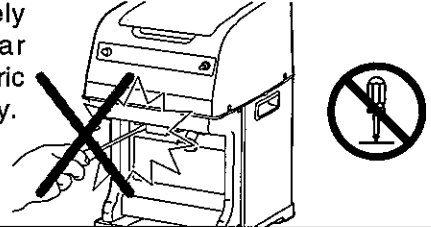


Do not touch any electrical parts (such as plug or switch) with wet hands.

It can cause electric shock.

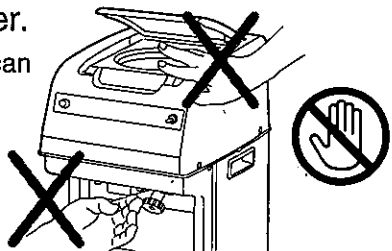


Never try to disassemble or repair the machine by yourself. Always call a qualified technician. Incorrect repair will likely cause irregular operation or electric shock, fire or injury.

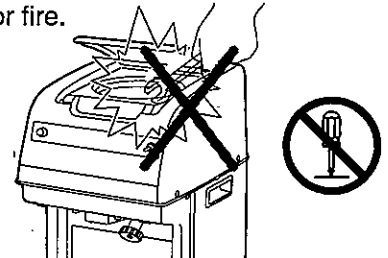


Do not open the inlet cover or put your hand into the ice hopper.

It is dangerous and can cause serious injury.



Do not attempt to alter the machine in any way. It can cause electric shock or fire.

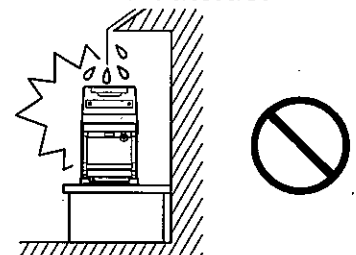


In the event of circuit breaker moving to "OFF" position, please contact the machine vendor. Switching breaker to "ON" position incorrectly or by force can cause electric shock or fire.



Do not operate the machine outside.

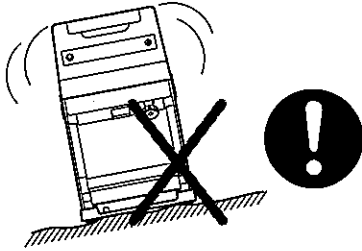
Operating the machine outside or in the rain will cause electric bleeding or electric shock.



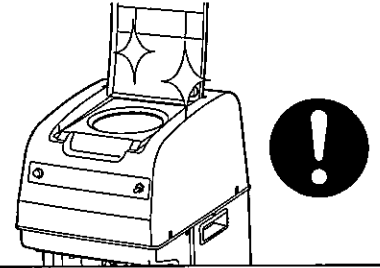
FOR SAFETY

⚠ CAUTION

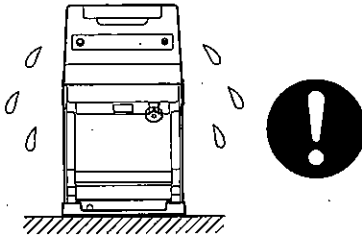
Always install the machine on a stable and flat surface. Irregular or imperfect installation can cause the unit to tip or fall and is therefore dangerous.



Clean ice hopper before operation and keep always ice hopper/ice outlet clean. Otherwise it can cause growth of germs/bacterium and cause health troubles.



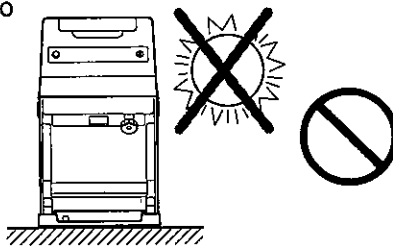
Install the machine in a location unaffected by occasional dripping of water. Melting ice will drip and can, therefore, drip onto things surrounding the machine.



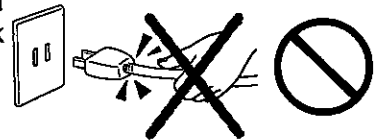
Never use inflammable sprays near the machine and never place volatile or inflammable materials close to the machine. Sparks from the switch could possibly cause fire.



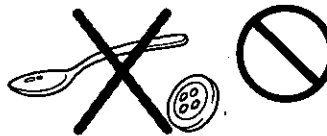
Keep the machine away from direct sunlight. It can cause a damage to plastic parts.



When you unplug the unit, be sure to hold the plug while you pull it out of the outlet. Never pull the power cable. It may damage the plug/cable and can cause electric shock or fire.



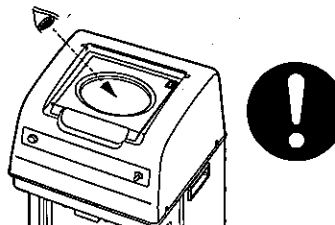
Do not introduce foreign substances into the unit such as spoons, buttons, toothpicks, etc. It may cause undue load on the motor, resulting in excessive motor heating or fire.



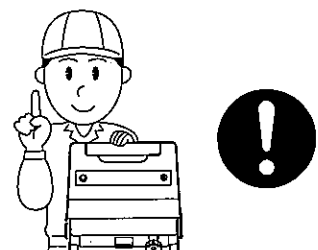
After the day's business is finished, be sure to switch OFF and unplug the unit for safety.



Should the motor stop under operation, be sure to switch OFF and unplug the unit. Remove any obstacles (foreign substances such as spoons, buttons, toothpicks, etc.) from ice hopper.



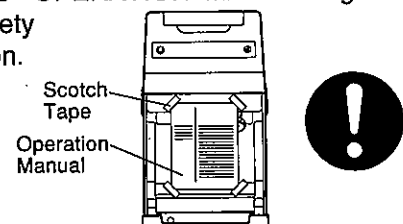
For disposal of a disused unit, please contact local disposal experts or the nearest vendor. Abandoned machines are dangerous. Treat blade on machine as a dangerous item when disposing machine.



When cleaning, be sure to switch OFF and unplug the unit before doing so. Cleaning with the power or switch on is very dangerous and can cause electric shock or injury.



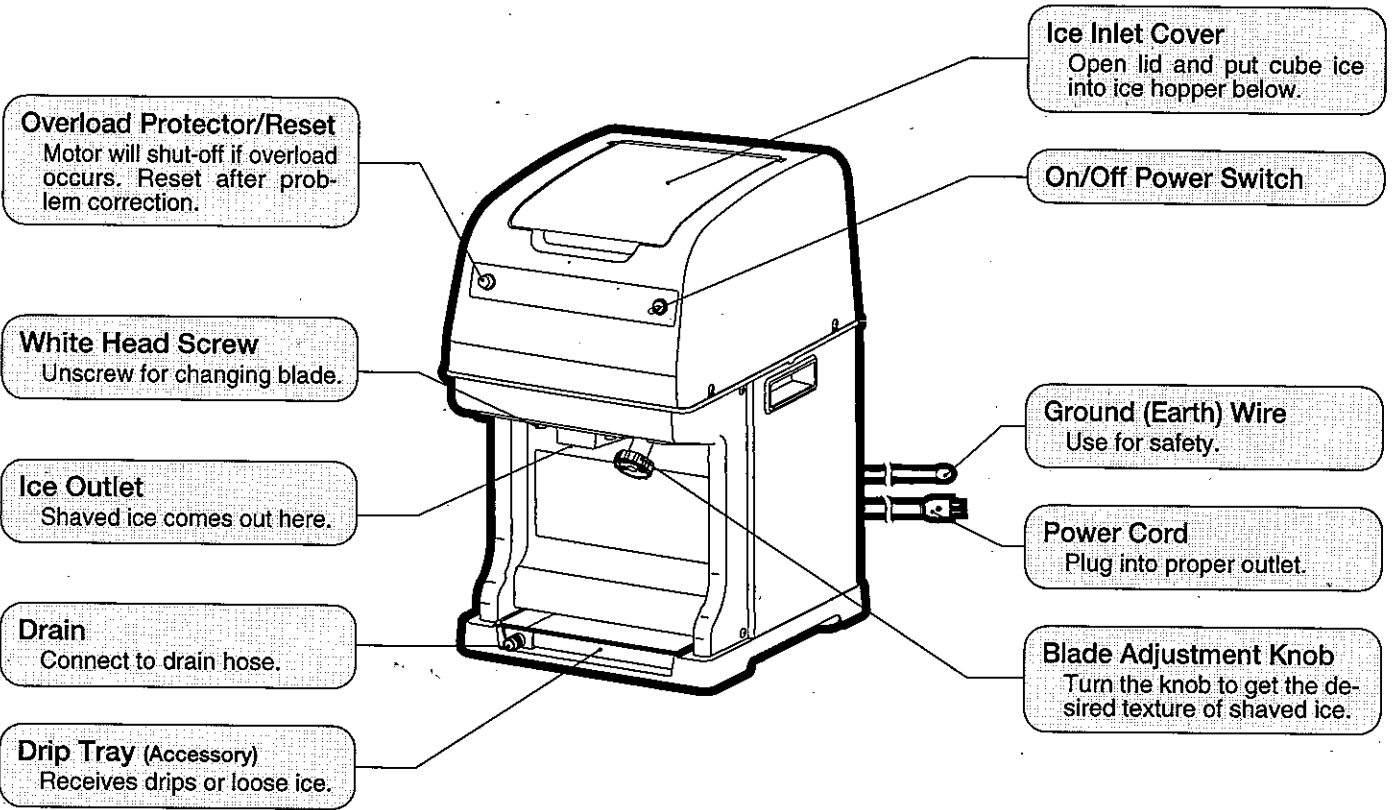
When you sell or give the machine to a 3rd party, make sure that this "OPERATION MANUAL" goes with the unit for safety and correct operation.



FOR SAFETY

PART NAMES AND FUNCTIONS

- The purpose of this machine is to make shaved ice from ice cubes or cubu ice.
- Cubu Ice: About 3 cubic cm made of ice maker.



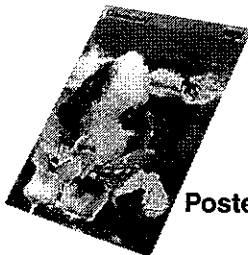
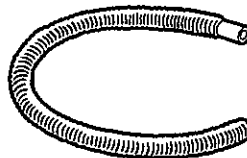
PART NAMES AND FUNCTIONS

ACCESSORIES

Spare Blade (1 pc.)
Replace when blade becomes dull

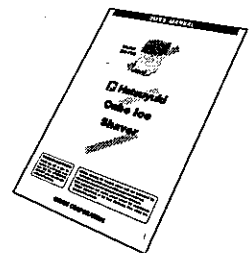


Drain Hose (1 pc.)
Connects to drip tray



Poster (1 pc.)

Operation Manual
This manual



HOW TO USE

⚠ WARNING

Never open the inlet cover or put your finger/hand into the hopper or ice chute during operation.



Put off the power switch and unplug the unit or cut of the breaker at an emergency.



Never touch electric parts such as plug by wet hand. Never operate power switch by wet hand.



(1) Safety switch

For safety, the machine is designed to stop automatically if ice inlet cover is opened during operation.
Note: Never use the safety switch an On/Off-switch by opening/shutting the ice inlet cover. It can cause machine problems.

(2) Cube ice to be used.

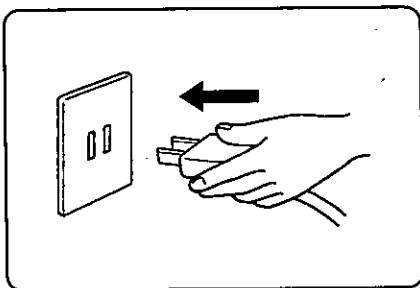
If the cube ice to be shaved is over-frozen with a white color and/or opaque (cloudy) color, let the ice thaw for a while. Over-frozen ice is not recommendable for optimum shaving.

(3) Cube ice left inside ice hopper can not be removed.

Put the proper desired quantity of cube ice by referring to next page.

(4) At the initial use, clean the hopper inside.

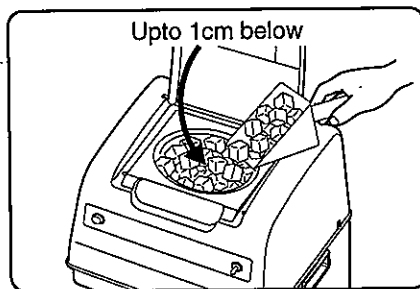
■ SEQUENCE FOR OPERATION



1

Plug the machine into outlet.

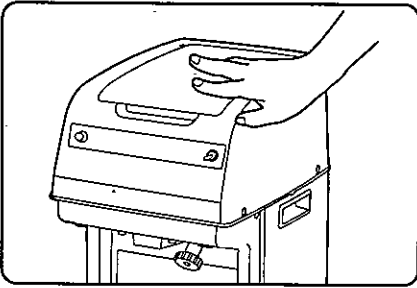
- Make sure that the main switch is turned OFF before plugging the machine into outlet.



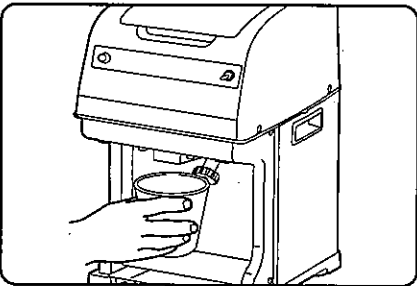
2

Put cube ice into ice hopper.

- Make sure that the machine has completely before opening ice inlet cover.
- Put only the required amount of cube ice into ice hopper.
- Do not stack ice so that it is less than 1 cm below the ice inlet. It's too much.
- Always put cube ice uniformly (i. e., flat) inside ice hopper. "Jumbled" ice can cause excessive noise.
- Standard amount of ice at one time: 8-9 pcs. of cube ice for a 200g.-cup.

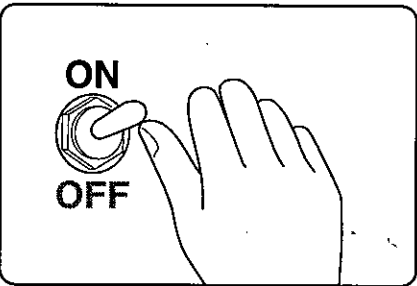


3 Shut the inlet cover firmly.



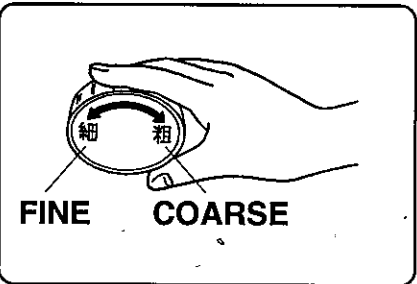
4 Receive shaved ice with receptacle.

- Place receptacle for shaved ice under the ice outlet.



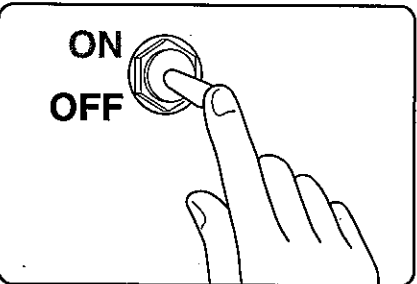
5 Switching ON the main switch.

- Be sure to shut ice inlet cover before switching on the unit. Unless ice inlet cover is shut, the machine will not work due to built-in safety switch.

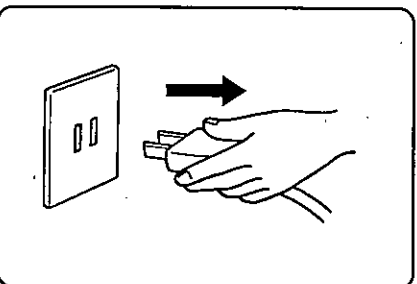


6 Adjusting texture of shaved ice.

- Turn blade adjustment knob for desired texture of shaved ice.
- For coarser shaving, turn blade adjustment knob clockwise, and for finer shaving, turn counter-clockwise.
- Each rotation of the adjustment knob will increase shaver setting by 1m/m.



7 Switch OFF the main switch.

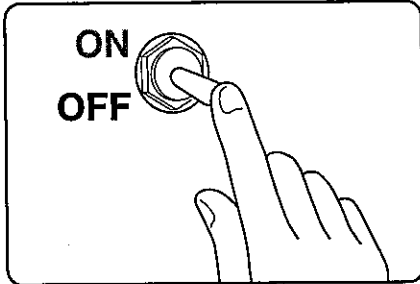


8 Unplug the machine.

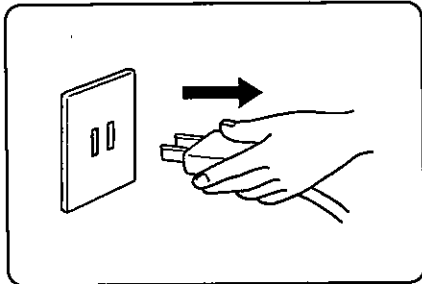
- Be sure to unplug machine after use.

OVERLOAD PROTECTOR/RESET

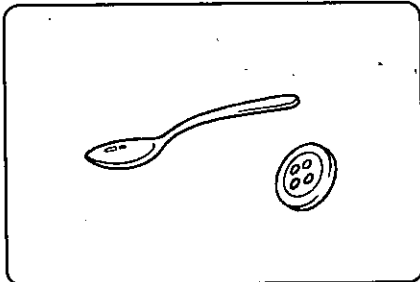
This machine is equipped with an overload protector, which will automatically protect the motor by stopping operation in the event of overload. When protector engages, machine will stop and the red button will pop out. Should this occur, please take the following measures.



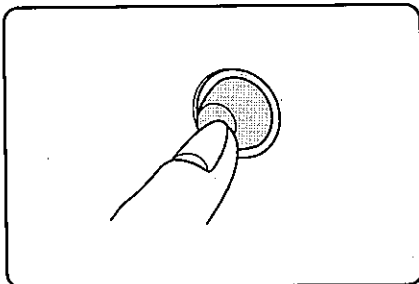
1 Switch machine OFF.



2 Unplug machine.



3 Check machine and rectify problem.



4 Push red button to re-set motor.

SAFETY SWITCH

For safety purposes, the machine is designed to stop automatically during operation, should the ice inlet cover be opened.

(Do not use the ice inlet cover as an On/Off-Switch. This can cause operation problems.)

HOW TO CHANGE BLADE

⚠ WARNING

For cleaning inside the ice hopper or changing blades, be sure to TURN OFF the main switch and always put on gloves while cleaning/changing blade works. Never touch blades directly. They are very sharp and can cause injury.

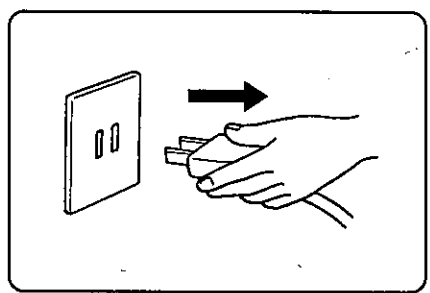


⚠ CAUTION

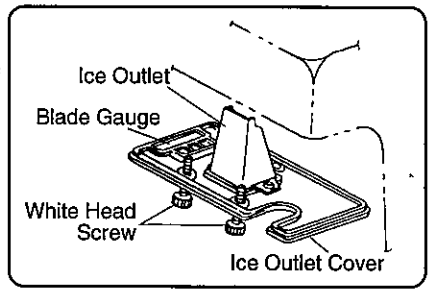
For cleaning and checking, be sure to TURN OFF the main switch and unplug the unit. Cleaning the unit while switched on or plugged in is dangerous and can cause electric shock or burn.



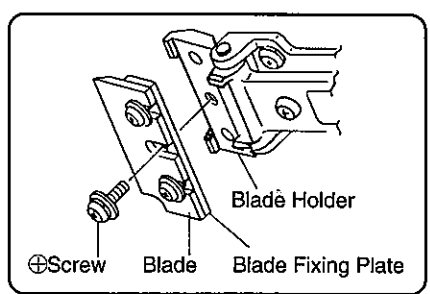
HOW TO REMOVE SLICING BLADE



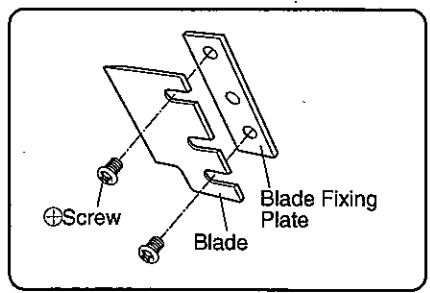
1 Be sure switch OFF and unplug the unit for safety.



2 Loosen and remove the 2 white headed mounting screws by hand and remove ice outlet cover from body of unit.



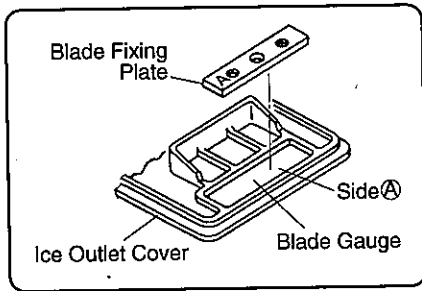
3 Of the 3 mounting screws between blade holder and blade, loosen and remove the middle screw (in the center) with a phillips ⊕ screw driver, and remove blade and blade fixing plate.



4 Loosen and remove the remaining 2 mounting screws between blade and blade fixing plate with a phillips ⊕ screw driver, and remove blade.

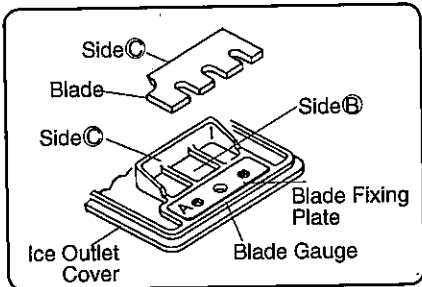
HOW TO CHANGE BLADE

HOW TO INSTALL SLICING BLADE



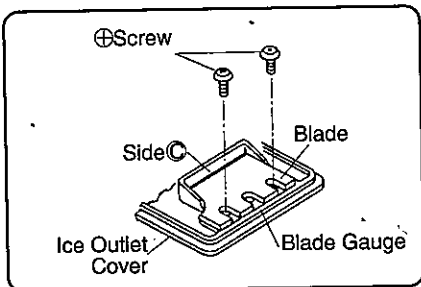
1

Put blade fixing plate into **A** side of blade gauge (reverse side of ice inlet cover) so that the side with die stamp **A** is up.



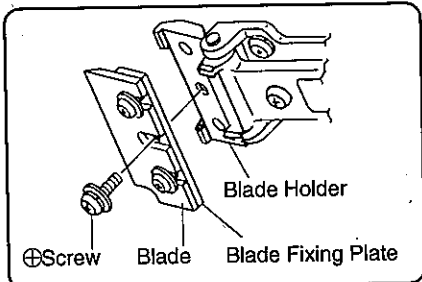
2

Put blade onto blade fixing plate and the side **B** of blade gauge.



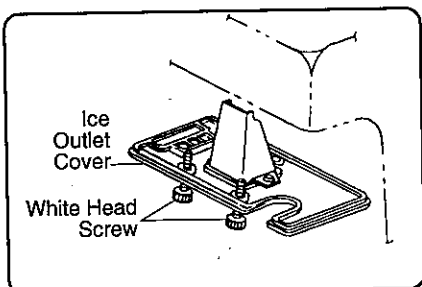
3

Push an blade to get a blade edge connected tightly/firmly against the side of **C** of blade gauge, and screw 2 pcs. (both ends) of their mounting screw(+) to re-assemble.



4

Fix a blade assembly into a blade holder with screwing 1 pce.(in the center) of its mounting screw.



5

Fix an ice outlet cover.

HOW TO CHANGE BLADE

CLEANING & MAINTENANCE

⚠ WARNING

Do not pour water over machine or immerse machine in water. It can cause short circuit or electric shock, rust and other water-related problems.



When loading/unloading ice, cleaning, checking or changing blades, be sure to first TURN OFF the power switch and always wear gloves. Do not touch blades. They are very sharp and can cause injury.



Do not touch any electric parts (such as plug or switch) with wet hands. It can cause electric shock.



Never use inflammable sprays near the machine and never place volatile or inflammable materials close to the machine. Sparks from the switch could possibly cause fire.



⚠ CAUTION

Clean ice hopper at least 2-3 times per month. Otherwise it might cause growth of germs/bacterium and cause health problems.



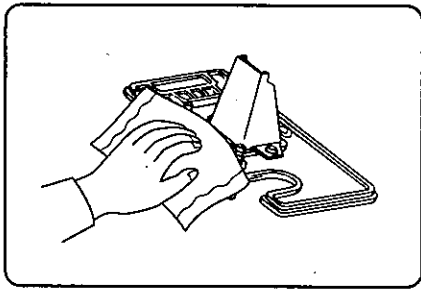
For cleaning and checking, be sure to TURN OFF the main switch and unplug the unit. Cleaning while the unit switched on or plugged in is dangerous and could cause electric shock or burns.



NOTE:

- 1) Do not wash with water hotter than 40°C.
- 2) Do not use a dishwasher or dish dryer, as these may cause plastic parts to warp.
- 3) Do not use the following matters for cleaning/maintenance:
Thinner, Benzine, Alcohol, Oil, Soap Powder, Polishing Powders, Alkaline Detergent, Acid, Scrub Brushes, etc.

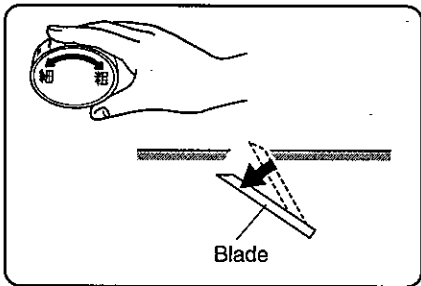
CLEANING



1

Cleaning ice outlet

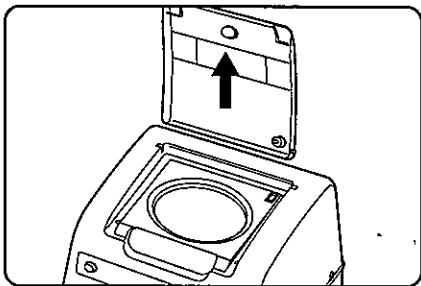
- Clean ice outlet.



2

Cleaning ice hopper

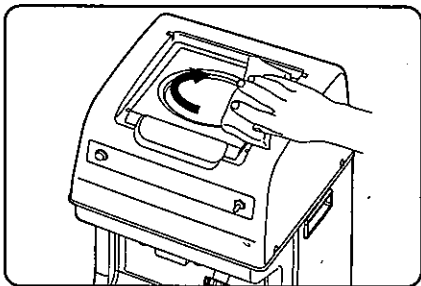
- Clean ice hopper at least 2-3 times per month. First, turn blade adjustment knob fully counter-clockwise. This will turn blade to down position.
- Then, wipe blade with a soft, wet cloth/towel dipped in lukewarm water.



3

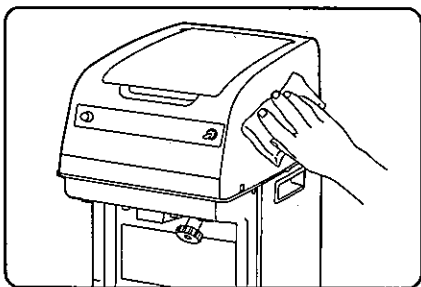
Removing Inlet Cover

- Raise Inlet Cover straight on Head Cover and lift it then removed.



- Clean by cloth with lukewarm water and then wipe out by dry cloth.

CLEANING HEAVY STAINS



1

Cleaning outside body of unit

- For heavy stains, use detergent. Wipe unit with a wet cloth dipped in lukewarm water and detergent. After using detergent, wipe off all residue completely with fresh water.

MAINTENANCE

1. Checking for earth(grounding)cord

Check the earth (grounding) cord and its joint to ascertain whether or not they are cut / damaged or loose. If you find any problems, please contact an electrical expert or engineer.

2. Checking power supply plug.

Check the power supply plug.

WARNING

Dedicated (exclusive use) outlets.

Always use a dedicated outlet for each machine. Never use extension cords or connect to other power supply cords. Never connect several or many plugs into the same outlet. It can cause power supply cord to melt/burn or electric shock or fire.



Keep plug clean and plug into an outlet correctly.

Always keep plug clean and plug into an outlet correctly. Dirty plugs or imperfectly connected plugs can cause electric shock or fire.



Do not damage power supply cord.

Never work on power cord and never pull, twist, or bundle power cord. Never place heavy things on it. It can damage the power cord and may cause electric shock or fire.



■ HOW TO KEEP THE MACHINE (STORAGE)

In the case of non-use of the machine for over one month, dry the machine thoroughly and store it in a dry place.

■ BEFORE REQUESTING REPAIRS

WARNING

Do not touch any electric parts (such as plug or switch) with wet hands. It can cause electric shock.



Do not attempt to alter the machine in any way. It can cause electric shock or fire.



When you find any problems or irregular operation, TURN OFF the main switch and unplug from outlet. Immediately contact a nearest vendor for correct repair. Continued operation of a defective machine can cause electric shock or fire.



■ TROUBLE SHOOTING

1. In case the machine does not work.

- (1) Check and make sure that the machine is correctly plugged into an outlet.
- (2) Check and make sure that ice inlet cover is properly closed. (Because of safety switch, the machine does not work while the inlet cover is opened.)
- (3) Check and make sure that the overload protector has not switched off. (Make sure red button is not out. In case red button is out, please take measures referred to on page 7.)

2. In case cube ice cannot be shaved (sliced), while the machine is operating.

- (1) Check and make sure that the blade edge contacts ice sufficiently. If you find the blade edge does not contacts ice, turn blade adjustment knob clockwise.
- (2) Check and make sure that the blade cuts (slices) well. If you find the blade does not cut (is worn out), install new blade.

■ TRANSFER (RE-SELL) OF MACHINE

CAUTION

Should you sell or give the machine to a 3rd party, make sure that this "OPERATION MANUAL" goes with it for safe and correct operation



SPECIFICATIONS

	HC-77A		
Electrical	115V 60Hz. 1PH.	220V 50/60Hz. 1PH.	240V 50Hz. 1PH.
Electric Consumption	255W	220W	300W
Rated Time	Continue		
Unit Dimensions (mm)	290W×360D×499H		
Unit Net Weight	17.3kgs.		
Ice Hopper Capacity	70—77pcs of Cube Ice (3×3cm)		
Shaving Capacity	2.5kg (50Hz) / 3.0kg(60Hz) per minute		