

# Instruction Manual

Hitachi Refrigerator

No Frost

For household use only

## Model

R-BGX411PRU0



Thank you very much for purchasing the Hitachi refrigerator. Before using this please read the instruction manual carefully for the correct usage.

Maintenance work must only be carried out at workshop by well-trained maintenance worker.

# HITACHI

Inspire the Next

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**R600a**  
**Refrigerant**

# Warnings and Caution for Safety

To avoid harm to the use, other persons or damage to property, please read and follow the warnings and cautions below and those given throughout this manual.


The following warnings and cautions are categorized by the level of possible harm or damage that may occur from ignoring directions.

The symbols are shown as below clearly showing the significance of directions.

	<b>WARNING</b>	This pictograph indicates "There is a high possibility of serious injury or death, if ignored".
	<b>CAUTION</b>	This pictograph indicates "There is a high possibility of injury or damage to property, if ignored".

The symbols below are examples.	
	This symbol is an alert mark.
	This symbol indicates "prohibited".
	This symbol indicates "necessary".

- This refrigerator uses flammable refrigerants. The symbol column below states the precautions on flammable refrigerants.



R600a

This symbol denotes the precautions on flammable refrigerants.

## WARNING

### When you install ... To avoid fire, electric shock, and injury.

- Do not install the refrigerator in a place where it may come in contact with water.
- Do not install the refrigerator in a place exposed to rain.
  - This may impair electricity insulation and cause electric shock or fire.



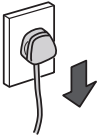
- Ground this refrigerator to prevent electric shock and noise interference. Always ground this refrigerator and install earth leakage circuit breaker when using it in places with high humidity or moisture. (Please consult with a retailer or Hitachi Service Center.)

### Power Cord and Power Plug ...To avoid fire, electric shock.

- Do not connect the wall outlet whose power capacity is less than the refrigerator's. Also, do not use power sources that are not a rated voltage.
- If a power source is shared with other appliances using double or multipoint adapters, the adapter may heat up beyond the normal level and cause fire.



- Connect the power plug firmly to a power outlet with the cord running down.
  - Connection of the power plug with the cord running up could apply stress on the cord and cause electrical short or overheat, which could result in electrical shock or fire.
  - Incomplete connection of the power plug could result in electrical shock or fire due to heat.



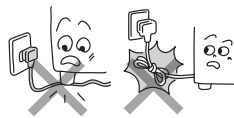
- Do not use a damaged or loose power plug or power outlet. This may cause fire or electric shock.



- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Clean the dust on the power plug frequently with dry cloth.
  - Unplug the power plug and wipe it with dry cloth.
  - An insulation failure due to moisture or when dust collects on the power plug may cause fire.



- Do not cut, bend, fold the power cord to avoid fire and electric shock.



- Be sure to unplug the power plug before maintaining the refrigerator.
  - Be sure to hold the power plug to unplug.



### During daily use ...To avoid fire, electric shock.

- Do not splash water on or inside the refrigerator.
- This may impair electricity insulation causing electric shock or fire.
  - This may also cause gas leakage because of pipe rust.



- Do not disassemble, repair, or modify the refrigerator by yourselves.
  - Please consult with a retailer or Hitachi Service Center if any repair is required.



- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

- Ether, liquid propane gas, solvent, aerosol cans, etc. which is volatile cannot be stored in this refrigerator.
  - Do not store anything that are generate heat or fire spark inside the refrigerator.



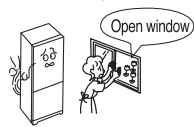
- Do not hang on the doors or step up on the various compartments.
  - Injury may be caused by the refrigerator tipping over or hands getting caught in door.



- Do not put water containers or foreign articles on the top of the refrigerator.
  - Opening and closing doors etc. may cause the articles on the top of the refrigerator may fall down, resulting in injury.



- Do not damage the refrigerant circuit.
- If you happen to damage the refrigerant pipe, stay away from the refrigerator and avoid using fire and electrical appliances.
- And, open windows to ventilate and contact retailers or Hitachi Service Center.



- Medicines, chemicals, research and experimental substances should not be stored in the refrigerator.
  - Substances that require precise conditions for storage cannot be stored in a domestic refrigerator.



## ! WARNING

- Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.



- Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.



- In an event of a flammable gas leak, do not touch the refrigerator and open windows for ventilation.

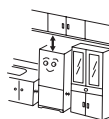


- Children should be supervised to ensure that they do not play with the appliance.
- Children getting inside may not be able to get out.

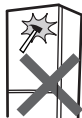


- Sparks from points of electrical contacts such as door switches may ignite explosions causing fire or a burn.

- Keep ventilation openings in the appliance enclosure or in the built-in structure clear of obstruction.



- Do not make an impact on the glass-made doors or shelves.
- They are made of tempered glass, however, an excess impact may result in breakage and is dangerous.



- If you find something wrong with the refrigerator, immediately unplug and consult with the retailers or Hitachi Service Center.



### When discarding the refrigerator.

- Follow the instructions of your region when discarding.
- This refrigerator uses R-600a for the refrigerant and cyclopentane for the blowing agent of the urethane heat insulation.

- When discarding the refrigerator, remove the door gaskets.
- To avoid a risk of an infant or child to be entrapped inside.



## ! CAUTION

### During daily use ...To avoid illness and injury.

- Do not put bottles, etc. forcibly in the door pockets.
- This may cause bottles dropping down or door pockets coming off.



- Do not store food which smells or food whose color is changed abnormal.
- Such an action may cause diseases.



- Food and containers inside the freezer compartment should not be touched with wet hands.
- This may cause frost injury. (Especially in case of metal items.)



- Do not hold the top, bottom and side of the doors when closing them.
- This may result in your fingers caught by the door edge.



- If someone else is using the refrigerator, do not open the door.
- Fingers may get caught in the spaces between the doors and may cause injury.



- Do not have food items protruding over the front edge of each shelf.
- Doors may not be closed properly or the door pockets may drop down. Injury may be caused from items like bottles getting knocked over your feet.



- Do not store glass bottles in the freezer compartment.
- Bottles may break by the contents freezing and cause injury.



- Do not put your hands into the base surface of the refrigerator cabinet.
- When cleaning, putting your hands near the base surface of the refrigerator may result in injury by thin metal sheets.



- Be sure to hold the handle firmly to open or close the door.

- Do not have your feet too close when opening the door of the refrigerator.
- When opening the door, your feet may be hit, resulting in injury.



### When moving or carrying ...To avoid damaging, wetting, soiling the floor, or to avoid injury.

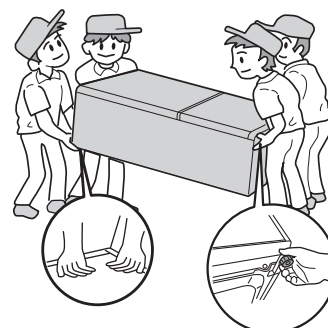
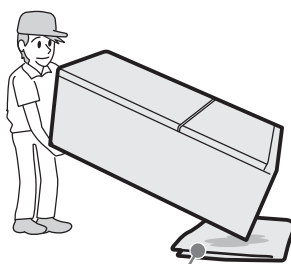
- Do not use door handles when carrying the refrigerator.
- Never use the carrying handles to hang up with a chain hoist or similar machines.

- For a floor that may be easily scratched, lay a protective mat, etc. .

- Use the carrying handle when carrying the refrigerator.
- Hold the carrying handles only. If hold door handles, hands may slip and may cause injury.
- Carry the refrigerator by at least 4 persons for safety reasons.
- Carry it with the doors facing upward.



- Before carrying the refrigerator:
  - Take out all food items and ice cubes.
  - Lay a protective sheet or cloth to protect the floor from damage and catch remaining water spilled from the refrigerator.
  - With a large piece of old cloth underneath, tilt the refrigerator backward to drain water.
  - Finally carry the refrigerator with the doors facing upward.














- Secure the doors well with adhesive tapes so they do not open.
- If transporting in a vehicle, do not load the refrigerator on its side. This could damage the compressor.

Such as old cloth

### When replacing lamps (LED) is required.

- When replacing lamps (LED) is required. Please contact your dealer or Hitachi Service Center.

## WARNING

-  ■ Clean regularly surfaces that can come in contact with food and accessible drainage systems.
-  ■ Two-star frozen-food compartments are suitable for storing pre-frozen food, storing or making icecream and making ice cubes.
-  ■ If the refrigerating appliance is left empty for long periods, switch off, defrost, clean, dry, and leave the door open to prevent mould developing within the appliance.
-  ■ This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
-  ■ This appliance is intended to be used in household and similar applications such as
  - Staff kitchen areas in shop, offices and other working environments.
  - Farm houses and by clients in hotels, motels and other residential type environments.
  - Bed and breakfast type environments.
  - Catering and similar non-retail applications.
-  ■ Children aged from 3 to 8 years are allowed to load and unload refrigerating appliances.
-  ■ Opening the door for long periods can cause a significant increase of the temperature in the compartments of the appliance.
-  ■ Store raw meat and fish in suitable containers in the refrigerator, so that it is not in contact with or drip onto other food.
-  ■ One-, two- and three-star compartments are not suitable for the freezing of fresh food.
-  ■ Children shall not play with the appliance.
-  ■ Cleaning and user maintenance shall not be made by children without supervision

# Preparations before Use

## Installation

1. Install on a rigid and level floor.
  2. Please use this refrigerator between the room temperature of 10°C to 43°C.  
Sufficient performance may not be obtained, if the room temperature is too low or too high.
  3. Do not install where the refrigerator is exposed to direct sunlight or other heat sources.
  4. Install in an atmosphere which is dry or has air ventilation.
  5. The refrigerator requires enough air ventilation space around the cabinet to have efficient cooling performance.  
Space of at least 5 cm over the top, 5 cm at rear and 1 cm at both sides for proper air circulation is needed.
  6. Ground the refrigerator to prevent electric shock and noise interference. Always ground this refrigerator when using it in places with high humidity or moisture. (Please consult with retailers or Hitachi Service Center.)
  7. Adjusting the adjustable legs to keep the left/right refrigerator door level.
    - Without adjusting the legs, door height may not be level, or there may be abnormal vibration or noises depending on floor conditions. Follow the instructions below.
- (1) Turn the adjustable legs until they touch the floor firmly.

### CAUTION

Back & both sides of fridge is hot proceed from hot gas pipe inside.

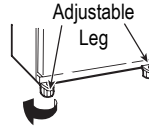
Rear side more than 5 cm

More than 5 cm



More than 1 cm

Adjustable Leg



## Before Use

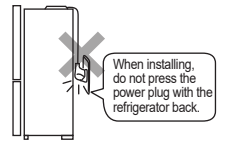
1. Cleaning inside the refrigerator. Wipe the surface gently with soft cloth.
2. Connect the refrigerator to an exclusive wall power outlet.  
The refrigerator can be connected to an outlet soon after it is installed. Surely use with the rated voltage and exclusive power outlet.
3. The compressor will start running in approximately 30 seconds, if inside is not cold.
4. Allow enough duration for sufficient cooling before storing food.  
It may take about 4 hours to fully cool down and could even take about 24 hours when the ambient temperature is high.



4 hrs.

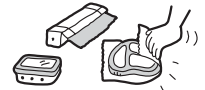
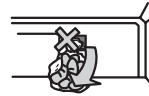


### CAUTION

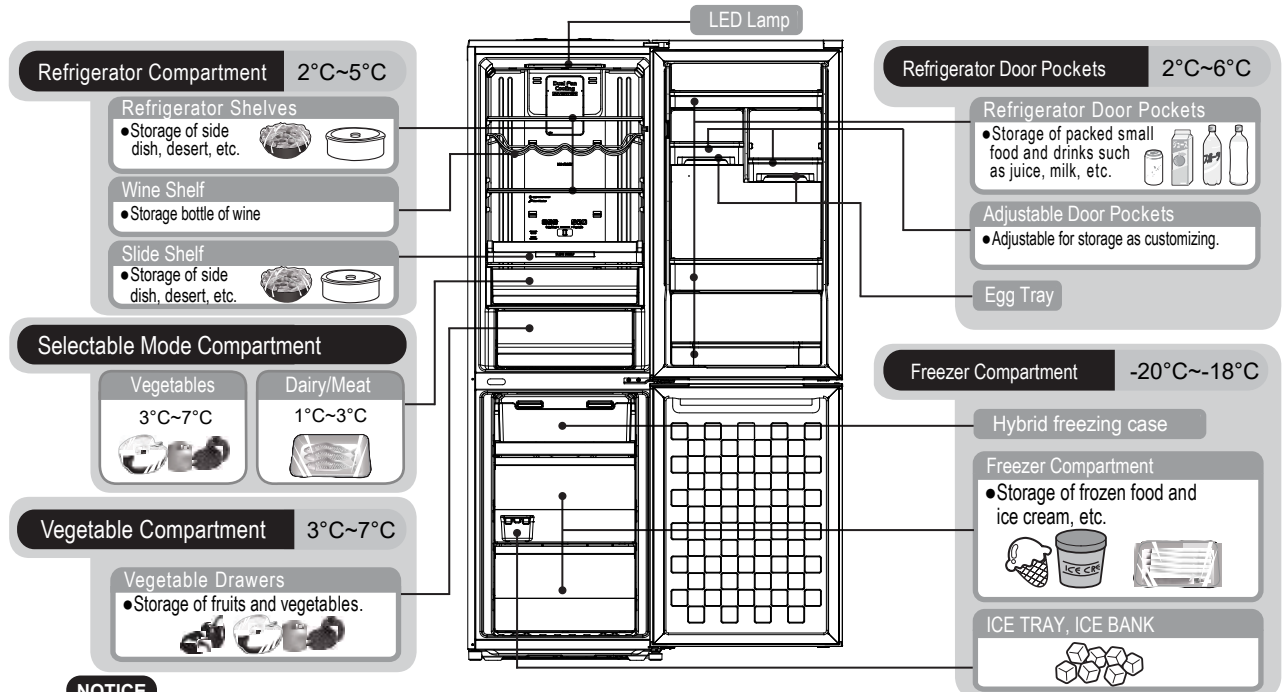


## Optimal Food storage

1. Keep enough space between food. Several food placed too close together may obstruct the flow of cold air.
2. Make food cool enough before putting it in the refrigerator.  
Putting warm food in the refrigerator raises the inside temperature and wastes electricity.
3. Do not block the cold air vent. This will adversely affect the cold air flow and may not keep the temperature inside even. Moreover, it could result in food near the vent freezing.
4. Using food wrap or sealed containers prevent the food from drying or transition of smells.



# Location of Food Storage

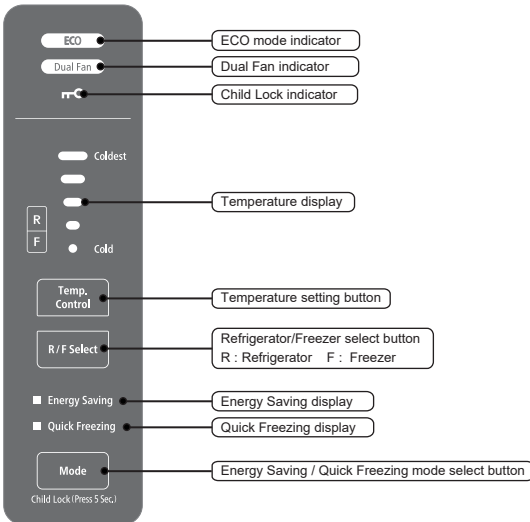


### NOTICE

- Above temperatures are the approximate values in the conditions of outside temperature setting 32°C, the temperature of the refrigerator compartment "Normal", freezer compartment "Normal", doors being closed and without food storage.
- Door pocket temperatures may be little higher than above temperatures.
- The specification of your purchased model may be different from one of the above illustration.

# How to operation

## Name and Functions of Display



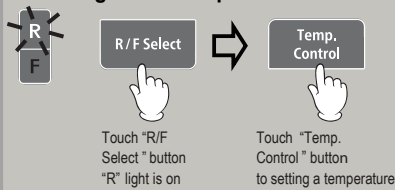
### NOTICE

- If you unplug the power plug or a power failure occurs and then the refrigerator restarts, the temperature display and each setting will be automatically resumed\*\*\*. However, "Quick Freezing" operation will be cancelled.
- Approximately 30 seconds after the end of operation, indicator LED become unlit (ECO and Dual Fan LED become dim).
- To confirm indicator setting, open the refrigerator door or touch any button. The indicator LED become light again
- Response of the touch panel may change depending on the surrounding temperature, humidity, physical condition of the user or operation status of the adjoining electric product.
- The panel may not respond if it is wet or dirty.

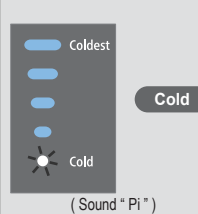
\*\*\*There must setting more than 45 seconds before unplug the power or power failure. otherwise the temperature display shown as before setted.

## Temperature Control

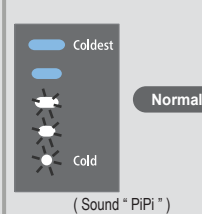
### Refrigerator Compartment



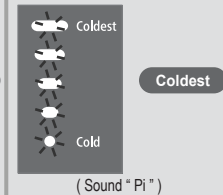
When the food is too cold



For normal use

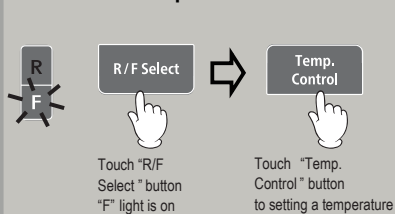


When cooling food more coldly or quickly

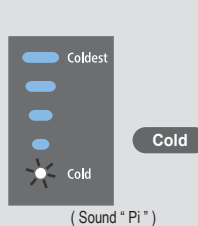


The display is indicating the status of temperature setting.

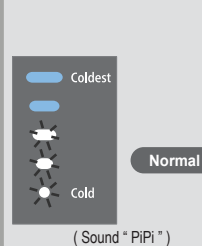
### Freezer Compartment



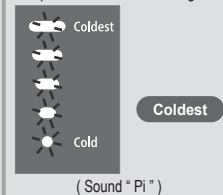
When storing neither frozen food nor ice cream



For normal use



When making ice quickly or making frozen food quickly. Or, a surrounding temperature is high and the Freezer compartment is not cold enough.



The display is indicating the status of temperature setting.

## Fine adjustment of the temperature (Refrigerator compartment / Freezer compartment)

### To set the fine adjustment of the temperature

Touch "Temp Control" button for 5 seconds until "Peep" is heard.

Touch "R/F Select" and "Temp control" to make an adjustment.

Each time you touch the button, the corresponding indicator lamp change in order shown below (9 levels)

(○ Lighting ● Blinking ● Turned off)

Indication lamp									
	Cold	→	→	→	Normal	→	→	→	Coldest
Setting	Cold	→	→	→	Normal	→	→	→	Coldest
Sound	Pi!	Pi!	Pi!	Pi!	PIPI!	Pi!	Pi!	Pi!	Pi!

### To cancel the fine adjustment of the temperature

Touch "Temp Control" button for 5 seconds until "PiPi!" is heard, and you can set temperature by normal step (5 levels)

#### NOTICE

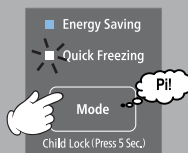
- This function is subjected to change according to model type.
- Factory setting, the adjustment temperature by normal step (5 levels).

# How to operation ( Continued )

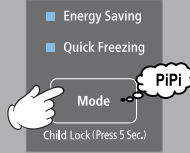
## Other Functions

**Quick Freezing** When you want to freeze food or make ice quickly, use this function.

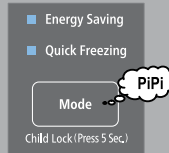
Touch "Mode" button for start operation "Quick Freezing" light is on.



Touch "Mode" button 2 times for stop "Quick Freezing" operation, light is off.



After 3.5 hours (approx.) Quick freezing operation will be finished, light is off.



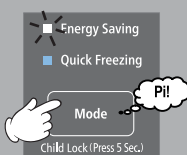
3.5 Hours (Approx.)

**Notice** • During "Quick Freezing", priority cooling of the freezer compartment will be done. Thus, try to avoid unnecessary opening and closing the doors not to have a temperature rise of the refrigerator compartment

**Energy Saving** Recommend to use this function in case of low storage volume, or a long vacation when the doors are not opened for long time.

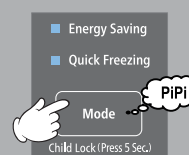
1

Touch "Mode" button for Start Energy Saving operation, "Energy Saving" light is on.



2

Touch "Mode" button again for stop Energy Saving operation, "Energy Saving" light is off.

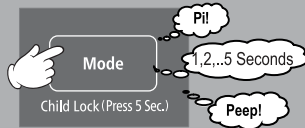


**Notice** • In case the compartment temperature rises up, the operation will be back to a normal setting temporarily.  
• After a long time operation of "Energy Saving", in some cases, fatty ice cream, etc. may become soft. Please stop "Energy Saving" operation in this case.

**Child Lock** You can prevent mischief of all the buttons on the control panel caused by children.

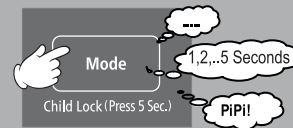
1

Touch "Mode" button for 5 seconds ( "Child Lock" light is on )..



2

To stop this function, Touch "Mode" for 5 seconds again ( "Child Lock" light is off )



## Door Alarm and ECO Alarm Functions

If the Refrigerator door is left open for more than 1 minute, the alarm system will inform the user by the sound and digital display. (Freezer door don't have this function)

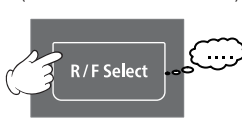
- Door Alarm: Informs by PeepPeepPeep sound.
- Eco Alarm Display: Indicates the door opening state on the control panel.

Duration of Door Opening	Door Alarm Sound	ECO Alarm Display
After 1 minute	PeepPeepPeep	All LED on display - are Flashing
After 2 minute	PeepPeepPeepPeepPeep	
After 3 minute	Peeps continuously.	

### To Disactivate Alarm and Sound

1. Keep touching "R/F Select" button for 5 seconds until "Peep!" sound is heard.

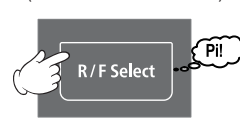
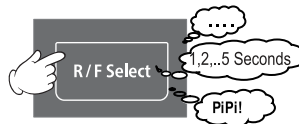
There is not sound when touching any button (disactive door alarm sound).



### To re-activate Alarm and Sound

1. Keep touching "R/F Select" button for 5 seconds until "PiPi!" sound is heard.

There is not sound when touching any button (active door alarm sound).



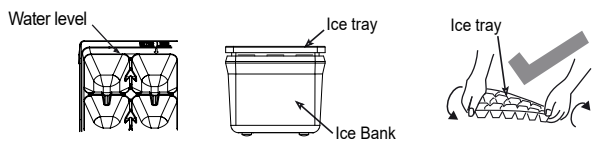
**NOTICE** • Upon shipment, the alarm and sound are set "ON" (Activate).  
• If the Door Alarm, Eco Alarm Display and each button operation sound have been deactivated, the refrigerator will still set the alarm and sound to "OFF" even though a power failure or when unplugging and reconnecting the power plug.

# Freezer and Refrigerator Compartment

## Freezer Compartment

### Ice Making

- Take the "Ice tray" and pour in water up to the full line.
- After ice is made, turn the "Ice tray" by following arrow and drop the ice into the "Ice Bank".



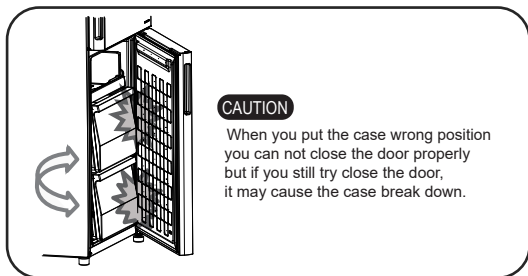
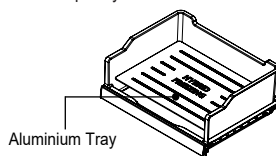
#### NOTICE

- Do not twist it as shown in the picture or else it will be damaged.
- Do not use the "Ice Bank" as an ice maker tray or else it will be damaged



### Hybrid freezing case

- It is recommended to use this compartment when freezing meat or/and fish quickly.



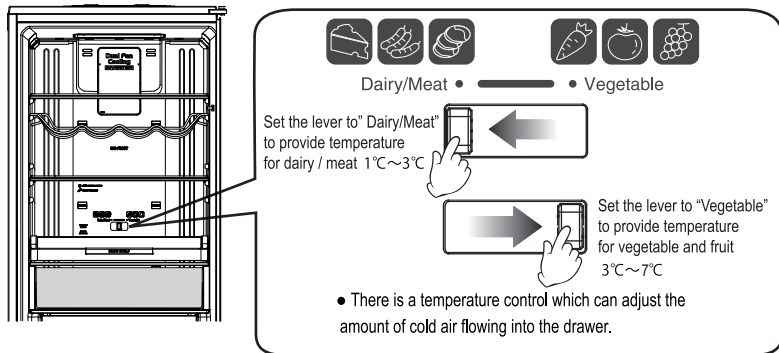
#### CAUTION

When you put the case wrong position you can not close the door properly but if you still try close the door, it may cause the case break down.

## Refrigerator Compartment

- If you keep refrigerator in a hot and humid place, frequent opening the door or storing a lot of vegetables in it may cause dew forming which has no effect on its performance. Remove the dew with cloth free from care.

### 1. Selectable mode compartment

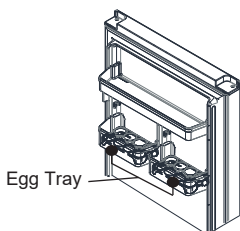


#### NOTICE

- If you want to store meat or fish longer, please store them in the freezer compartment.
- Be careful, it might be frozen if that food has a lot of moisture.
- When closing the refrigerator door, push the select mode compartment for close. If you close the door while the select mode compartment is still pulled out. The select mode compartment might be broken.
- Meat and fish can be kept fresh before being frozen.

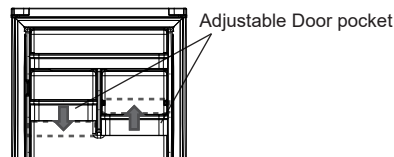
### 2. Egg Tray

- It can place 16 eggs also turn the rear side to place the small items.



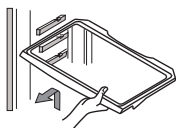
### 4. Adjustable Door pocket

- Gently tap the left and right of the bottom surface
- Set the door pocket by combining with stored food



### 3. Adjusting the shelves.

- Pull up the front and pull out the shelf forward.
- Set the refrigerator shelves by combining with stored food.



# Maintenance

## □ Cleaning (Clean the refrigerator once a month)

1. Unplug the refrigerator.
2. Take out all the food.
3. Wipe the refrigerator clean.
  - Wiping off smudges immediately is highly recommended. It is also recommended to clean the areas of the refrigerator which are not easily accessible, once a year.
  - Use soft cloth with lukewarm water to wipe off smudges. If it is difficult to remove smudges, use diluted, pH-balanced washing liquid.
  - Neatly clean the door gasket, because it gets dirty easily.
4. If any droplets remain on the surface of the parts, wipe them.
5. Return all parts to their original locations.
6. Check and clean the power plug, cord and outlet.
7. Plug the power cord into the outlet.

### NOTICE

- Even if the power plug is plugged in immediately after being unplugged, the compressor will not run for 10 minutes. However, if the inside is not cold, it will start running in approximately 30 seconds.

### CAUTION

- Do not do the following, since parts and paint may be damaged.
1. Do not splash water to the doors and refrigerator body.
    - It may cause electric shock or a fire.
    - It may cause refrigerant leakage because of pipe rust.



2. Do not use following: Polishing powder, soap powder, oil, boiling water, brush, acid, benzene, thinner, alcohol and alkaline detergent, etc.
  - It may cause damaged door surface.
  - It may cause cracked plastic parts.
3. If the cooking oil smears on the refrigerator, please wipe it off immediately. The plastic parts might be cracked.



- When replacing lamps (LED) is required. Please contact your dealer or Hitachi Service Center.

# Troubleshooting

Before you call for service, please check the following items:

The refrigerator does not get cold at all.	<ul style="list-style-type: none"> <li>● Is the refrigerator plugged in properly?</li> </ul>	<ul style="list-style-type: none"> <li>● Check the fuse box for blown fuse or tripped circuit breaker.</li> </ul>
The refrigerator does not get cold enough.	<ul style="list-style-type: none"> <li>● Is the refrigerator placed in the direct sunlight?</li> <li>● Is the temperature set to "Cold"?</li> <li>● Is the food stored too much?</li> <li>● Is the door being slightly opened ?</li> </ul>	<ul style="list-style-type: none"> <li>● Is the refrigerator placed near heat sources?</li> <li>● Has anything hot been placed in the refrigerator?</li> <li>● Is the door being opened and closed too frequently?</li> </ul>
Food in the refrigerator compartment freezes.	<ul style="list-style-type: none"> <li>● Is the temperature set to "Coldest"?</li> <li>● Do you place food with moisture or vegetables nearby the cold air vent? It will be frozen if it is placed nearby the cold air vent.</li> </ul>	
Dew appears.	Outside	<ul style="list-style-type: none"> <li>● When the ambient humidity is too high, the door gasket may have dew. Please wipe it up with dry cloth.</li> </ul>
	Inside	<ul style="list-style-type: none"> <li>● Please wipe it off with dry cloth and please check the details below.</li> <li>● Is the door closed firmly?</li> <li>● Is the door being opened and closed too frequently or opened for a long time?</li> <li>● Is it too humid outside?</li> </ul>
The inside is smelling.	<ul style="list-style-type: none"> <li>● Do you store food with odor without wrapping it?</li> </ul>	
The refrigerator is noisy.	<ul style="list-style-type: none"> <li>● Make sure the refrigerator is installed firmly.</li> </ul>	<ul style="list-style-type: none"> <li>● Is the refrigerator touching the wall?</li> </ul>

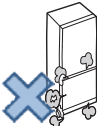
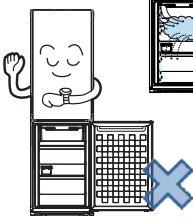
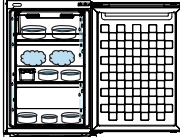
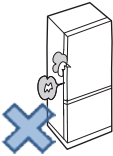
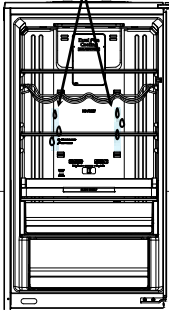
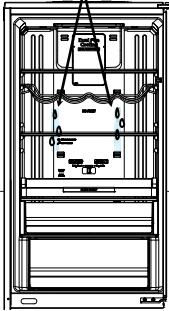


The Control Panel does not respond:

The Control Panel does not respond:	<ul style="list-style-type: none"> <li>● Is "Child Lock" selected by using the lock function on the panel for operation?</li> <li>● Is Refrigerator the compartment Door open? Operate after closing it.</li> <li>● Is there water or dirt on the Control Panel?</li> <li>● Are you wearing gloves or applying a plaster? Touch directly with your finger.</li> <li>● Are you touching a next button? Touch only one button at a time</li> </ul>
The Control Panel is unlit.	<ul style="list-style-type: none"> <li>● Approximately 30 seconds after the end of operation, Indicator LED become unlit (Except ECO and Dual Fan LED become dim ).</li> </ul>

This is not a malfunction of the refrigerator.

The surface of the refrigerator is hot.	<ul style="list-style-type: none"> <li>● The refrigerator is equipped with the dew prevention and heat radiation tubes. The back and side plates may be heated especially when starting up or if the door is frequently opened and closed.</li> </ul>
If a door is shut, other doors may open.	<ul style="list-style-type: none"> <li>● The two compartments are connected with an air duct. When closing one of the doors, the door may be opened by the air pressure through the duct. This is a normal phenomenon.</li> </ul>
Does the refrigerator make any abnormal noises (sound)?	<ul style="list-style-type: none"> <li>● The sound like water flowing and boiling water is the sound of the cooling liquid (refrigerant).</li> <li>● A creaking sound comes from the storage compartment. It is the sound caused by friction of the parts due to temperature change.</li> </ul>
Annoying sound is generated by the refrigerator.	<ul style="list-style-type: none"> <li>● You may feel that the operation sound is larger because the compressor operates in high-speed under the following conditions: the refrigerator does not cool fully on the occasion such as using it for the first time, opening/closing the door frequently, the surrounding temperature is high. The sound becomes more quiet after cooling fully. The compressor operates at low speed at night, for long vacations or absences, potentially creating large vibrations.</li> </ul>
Operation sound lasts long.	<ul style="list-style-type: none"> <li>● It is because the compressor operates in low-speed for conserving energy.</li> </ul>
Operation sound sometimes becomes louder.	<ul style="list-style-type: none"> <li>● It is because the system changes the operating power of the refrigerator according to the temperature change.</li> </ul>
There are waving and/or distortions on the door surface, the side and the top surface of the refrigerator.	<ul style="list-style-type: none"> <li>● Slight waving and/or distortions are generated in the manufacturing process of the refrigerator. They may be conspicuous according to the position of the light source and/or the brightness etc., but there is no problem with the performance.</li> </ul>

# Dew or Frost is Generated

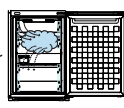
	General operation	Please check here	Possible causes and /or Recommended solutions
Dew or Frost is generated	Frost or ice is generated in the freezer compartment	The door of the freezer compartment was not left open temporarily?	Check that the wrapping paper of the food is not getting caught in order not to make gap between door and door gasket when you close the door. 
		The door of the freezer compartment was not opened frequently or longer time than necessary?	When the door is opened frequently or if the door is opened when the humidity around the refrigerator is high, moisture in the air may be turned into some frost or ice on the inner wall or component of the freezer compartment, or around the air channels. This is not a failure. Please try not to open the door too many times or for a long time. Also, please wipe frost or ice generated in the freezer compartment off with use of a dry cloth. 
		Making extra ice by using an additional ice-tray which was not originally installed in the refrigerator?	When the many containers in which water or liquid is stored are put in the same time, water or liquid may be evaporated and turned into frost or ice on the wall or component of the freezer compartment, or around the air channels. You can suppress these frost and ice by putting lid to avoid evaporation. Please wipe frost and ice off with use of a dry cloth. 
Dew is generated in the refrigerator compartment	Dew is generated in the refrigerator compartment	The door of the refrigerator compartment was not left open temporarily?	Please check not to pinch the food or plastic bag between the door and door frame when you close the door. 
		The door of the refrigerator compartment was not opened frequently or longer time than necessary?	When the door is opened frequently or if the door is opened when the humidity around the refrigerator is high, moisture in the air may be turned into some dew on the inner wall or component of the refrigerator compartment, or around the chilled air blow-off port. This is not a failure. Please try not to open the door too many times or for a long time. Also, please wipe off the dew in the refrigerator compartment with a dry cloth. 
	Storing many vegetables containing much water?	The humidity of the vegetable compartment is higher than other compartments. Accordingly, depending on the amount or type of the vegetable, dew condensation may be generated on the plastic case of vegetable compartment. However, this is not a failure. When you do not want to have this kind of dew, please wrap your vegetables in a plastic film. Also, when the dew condensation happens many times, water may be accumulated in the vegetable compartment. Please wipe the water off with a dry cloth. 	
Dew is generated on the outer surface of the refrigerator	The volume of humidity around the refrigerator is not high?	When the humidity rises such as in rainy day, some dew may be generated on the outer surface of the refrigerator. Please wipe the dew off with a dry cloth. 	
	The temperature setting is not set as "Coldest"?	When the temperature setting is set as "Coldest", some dew may be generated on the outer surface of the refrigerator. Please set the setting as "Normal". Also, please wipe dew off with use of a dry cloth. 	

## Why frost and dew are generated?

When warm and humid air contacts something cold, dew is generated. For example, if you put some ice in the glass in your room, air around the glass will be cold down and some dew may be generated on the outer surface of the glass.



In the same way, when warm and humid air enters into the refrigerator at the door opening, the warm and humid air contacts cold inner wall and little dew may be generated.



Accordingly, if the door opening is too frequent or too long, dew will be accumulated at every door opening. In some cases, dew may be frozen to generate some frost or ice flakes in the freezer compartment.

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#### About Non-fluorocarbon refrigerator.

- This refrigerator, including refrigerant and the heat insulator, is using hydrocarbon (non-fluorocarbon). The hydrocarbon is a material that does not rip up the ozone and have very little influence on global warming. It is the global environment concern material).
- R600a refrigerant is flammable. But the refrigerant is being sealed up by the refrigerate circuit, and never leak by usual use. In case of the refrigerate circuit being damaged by any chance, please avoid the use of fire and electric product, open the window and ventilate. Afterwards, please contact Hitachi Service Center.

#### Disposal Information

Instructions for waste disposal for Electrical & Electronic Equipment(WEEE). Packaging and packaging aids are recyclable and should principally be recycled. Household users should contact either the retailer where they Purchased this product , or their local government office, for further details of where and how they can take these items for environmentally safe recycling .

#### Information for users in European Union Countries.

The mark shown on the right is in compliance with the Waste Electrical & Electronic Equipment directive 2012/19/EU (WEEE). This Mark indicates the requirement NOT to dispose the equipment as unsorted municipal waste, but use the return and collection system available. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial waste for disposal.



### Reversing the refrigerator door

- Turn left hinge is only as an accessory available. To reverse the door, Hitachi has established special guideline to secure in long term the safety of the product.
- It is possible to change the opening direction of the door.
- When you want to reverse the refrigerator door, you must call to authorised Service Center.
- The reversing of the door opening is only completed by Hitachi approved service providers. This will be chargeable basis and at the customer expense.

#### WARNING

When a person other than a certified service engineer to work, there is a danger that the door to fall.

# HITACHI REFRIGERATORS DISCLAIMER / WARNING

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Some (simple) failures can be adequately handled by the end-user without any safety issue or unsafe use arising, provided that they are carried out within the limits and in accordance with the following instructions (see the "Self-Repair" section). Therefore, unless otherwise authorized in the "Self-Repair" section below, repairs shall be addressed to registered professional repairers in order to avoid safety issues. A registered professional repairer is a professional repairer that has been granted access to the instructions and spare parts list of this product by the manufacturer according to the methods described in legislative acts pursuant to Directive 2009/125/EC.

However, only the service agent (i.e. authorized professional repairers) that you can reach through the phone number given in the user manual/warranty card or through your authorized dealer may provide service under the guarantee terms. Therefore, please be advised that repairs by professional repairers (who are not authorized by importer) shall void the guarantee.

## Self-Repair

Self-repair can be done by the end-user regarding the following spare parts: door handles, door hinges (as a part – not as an accessory), trays, baskets, and door gaskets. Moreover, to ensure product safety and to prevent risk of serious injury, the mentioned self-repair shall be done following the instructions in the user manual for self-repair.

For your safety, unplug the product before attempting any self-repair.

Repair and repair attempts by end-users for parts not included above and/or not following the instructions in the user manuals for self-repair, might give rise to safety issues not attributable to the importer, and will void the warranty of the product. Therefore, it is highly recommended that end users refrain from the attempt to carry out repairs falling outside the mentioned list of spare parts, contacting in such cases authorized professional repairers or registered professional repairers. On the contrary, such attempts by end-users may cause safety issues and damage the product and subsequently cause fire, flood, electrocution, and serious personal injury to occur.

The manufacturer/seller cannot be held liable in any case where end-users do not comply with the above.

The spare part availability of the Hitachi refrigerator that you purchased is 7 years, especially for door gaskets this is expanded to 10 years. During this period, original spare parts will be available to operate the refrigerator properly.