

INVERTER

Panasonic®

Operating Instructions

操作指示

Panduan Pengendalian

Refrigerator 雪櫃 Peti Sejuk

Model No:

型號:

No Model:

NR-BY552 / NR-BY602

Thank you very much for purchasing Panasonic product

This product is intended for household use only

非常感謝您購買 Panasonic 產品

本產品僅供家庭使用

Terima kasih banyak untuk membeli produk Panasonic

Produk ini direka untuk kegunaan rumah sahaja



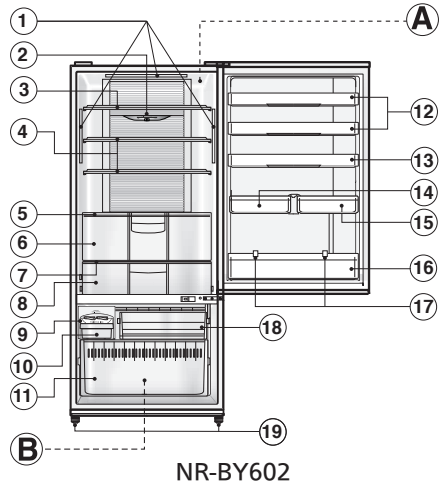
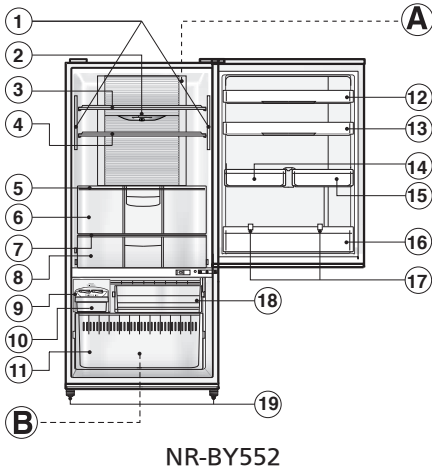
Before operating this unit, please completely read these instructions especially the safety precautions.

操作本機之前，請仔細閱讀下列說明，特別是安全措施。

Sebelum menggunakan unit ini, sila baca panduan ini khasnya amaran keselamatan.

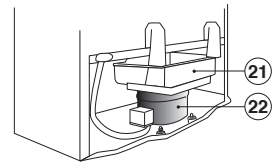
MAL

PARTS IDENTIFICATION



A. REFRIGERATOR COMPARTMENT
B. FREEZER COMPARTMENT


1. LED Lamp
2. Refrigerator Temperature Control
3. Small Tempered Glass Tray
4. Large Tempered Glass Tray
5. Tempered Glass Tray Crisper
6. Vegetable Case
7. Tempered Glass Tray Chilled
8. Chilled Case
9. Ice Tray
10. Ice Box
11. Bottom Freezer Case
12. Egg Shelf
13. Egg Shelf with Egg Tray
14. Left Provision Compartment Shelf
15. Right Provision Compartment Shelf
16. Bottle Shelf
17. Slide Bottle Stopper
18. Top Freezer Case
19. Adjustable Bolt
20. Freezer Temperature Control
21. Drain Tray
22. Compressor




Product view from behind .

INVERTER

For only model.
 - NR-BY552
 - NR-BY602

FREEZER CONTROL button  (20)

QUICK FREEZING button 

This portion is shown at front of the product.

SPECIAL FEATURE

1) NON-FLON

This unit uses totally NON-FLON MATERIALS both for refrigerant (Iso-butane (R600a)) and for insulation (Cyclo-Pentane). So, this refrigerator does not damage the earth's ozone layer and has almost no effect on global warming.

2) INVERTER

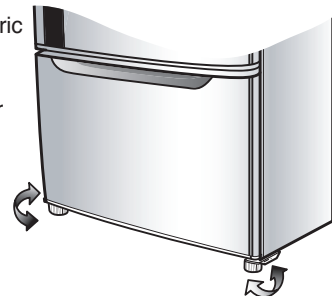
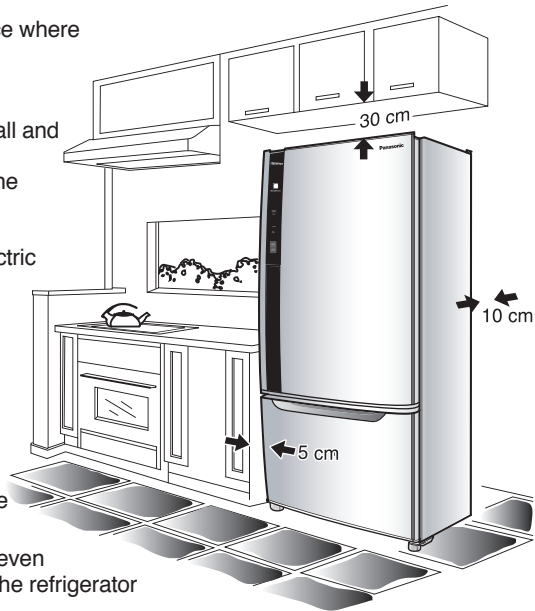
In accordance with temperature change inside the compartment, the motor runs at different speed. When the temperature is stable, the motor runs at a lower speed (energy saving & lower noise). When powerful cooling is required, the motor runs at a higher speed.

CONTENTS

Parts Identification	2	Removing trays for cleaning	11
Contents, Installation	3	Removing the vegetable case and chilled case for cleaning	12
Safety precautions	4	Removing the bottom freezer case for cleaning	12
Caution for using	6	Removing egg shelf, bottle shelf and left/right provision compartment shelf for cleaning	12
Temperature control	7	Refrigerator instruction guidelines	13
Inverter Control Display	9	Troubleshooting	13
Food Storage, Food storage in the freezer compartment, How to make ice cubes	10	Specification, Memo	14
How to clean the refrigerator	11		

INSTALLATION

- The refrigerator must be located in the place where there is good air circulation. There should be a space between the top of the refrigerator and the ceiling at least 30 cm as well as the space between the wall and the back of the refrigerator at least 10 cm and the side of the refrigerator and the wall at least 5 cm.
- Do not locate the refrigerator in a humid place as rust may form and may cause electric leakage.
- Do not locate the refrigerator exposing to direct sunlight as the heat and sunlight will increase the temperature.
- When moving or shifting the refrigerator, remove all trays and check to be sure that there is no water in the refrigerator, adjust the leveling stand of refrigerator, then move the refrigerator and install in the location, adjust leveling stand for locking.
- In case of placing the refrigerator on an uneven surface, adjust the leveling stand to make the refrigerator stands stably.
- If there is no ground wiring plug in refrigerator, it should be connected with ground connection to prevent hazard from electric leakage.
- Bring power cord set for use should be lift up left drain tray until locked off and then take out power cord set from drain tray after that insert drain tray into the block as well as press-fitting both sides.
- The refrigerator LED lamp, specially designed for this refrigerator, does not function on individual replacing. If you need replacement, please contact Panasonic Service Center.



Remark

The lamp in vegetable case is flashing LED which have function to keep freshness and increase vitamin C in vegetable and fruits. If you need replacing or have problem with this lamp, please contact Panasonic Service Center.

SAFETY PRECAUTIONS

 **WARNING** This sign means [It may result in severe injuries or death]

 **CAUTION** This sign means [It may result in injuries or malfunction]

The samples of symbols used in this manual are described below.



These signs mean prohibited action.



This sign means required action.

WARNING



Use proper voltage and keep it close to the outlet.

Your refrigerator's rated voltage is indicated on a label put at the door or at the inside of cabinet.
And place your refrigerator close enough to electrical outlet so that you do not have to use an extension cord.



Do not touch compressor or pipe.

This area become high temperature, and will have an accident when you touch it.



Compressor



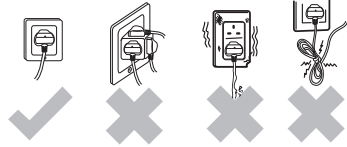
Do not plug or unplug with wet hands.

Doing so can result in an electrical shock.



Reserve one plug for the refrigerator only.

Avoid connecting many appliances to the same plug for the refrigerator. Do not use a plug of bad quality. Avoid using damaged plug or electric cord. Unroll through the length of the cord in order to ventilate the heat.



Remove dust periodically from the power plug.

Dust accumulation on the power plug may cause an Insulation failure with humidity and possible fire.
Unplug the power cord and wipe with dry cloth.



Do not let the cord or plug be damaged.

If the cord or plug is damaged, it may cause fire or electric shock. Please consult your dealer or service center when the refrigerator has to be repaired.



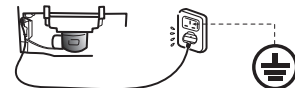
Do not open the controller box except by a service personnel.

There is a danger of getting electrical shock.



Do not try to disassemble, repair or modify the refrigerator by yourself.

You may get injured from doing so or the refrigerator may result in malfunction.
If you want to repair the refrigerator, please consult your dealer or nearest service center.



In case of refrigerator with ground wiring plug, It must be used the socket outlet with ground connection to prevent hazard from electric leakage.

Make Sure to push the plug completely into the socket outlet.

SAFETY PRECAUTIONS



WARNING



Do not damage the cooling circuit (piping on the back). The flammable refrigerant may catch fire and may lead to an explosion.

Do not use electrical appliances such as a deodorizer in the refrigerator. (If the refrigerant leaks, then it may catch fire due to sparks on the contacts.)

Do not fill the gaps around the refrigerator. (If the refrigerant leaks, then it may catch fire.)



- If you detect a burning smell, disconnect the power plug.
- If you detect a gas (such as city gas) leak, ventilate the kitchen.
- A flammable refrigerant is used. If you have damaged the cooling circuit (piping), open the windows to ventilate the kitchen and contact your dealer. (Otherwise it may cause an electrical shock, ignition or explosion.)
- Maintenance work must only be done at workshop by competent person.



Do not let any kid hang from the refrigerator's door. The refrigerator may overturn to the kid. Children should be supervised to ensure that they do not play with the refrigerator.



Do not store chemicals or scientific specimen. Home-Use refrigerator cannot store those requiring a strict control.



Do not place any water container such as fish-tank or flower vase on the top of the refrigerator. Spilled water may damage insulation of electrical components and cause electrical leakage fire or electrical shocks.



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



Before taking the refrigerator to be recycled, please remove all the door opening seal to prevent locking a child in it.



Regarding to local laws, Cyclo-Pentane is used for insulation of this refrigerator and flammable gas is used for refrigerant. When you throw away this unit, please discard it by proper method, and do not dispose it by burning.



CAUTION



- While opening the refrigerator, be careful not to pinch other one's hand holding the door.
- Mind the gap between the doors. They may rip your hand while closing the door.



- Hold the carrying handles when transporting the refrigerator.

CAUTION FOR USING

- Do not freeze glass bottles in the freezer. The glass bottle may explode or break.



- Do not place warm/ hot foodstuff in the refrigerator.



- Do not clean the refrigerator with chemical substance or liquid. It will occur damage and have corrosion on the surface.



- Do not place things with temperature higher than 60°C on the top of the refrigerator, it may damage the top of the refrigerator.



- When the plug is disconnected, leave it for 10 minutes before plugging again. If not, the compressor may not work.



- This refrigerator 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 supervision or instruction by a person responsible for their safety.

TEMPERATURE CONTROL

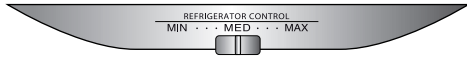
Refrigerator compartment temperature control

The temperature can be adjusted for 1 - 3 levels. Indicating number and cool level.

“MIN” Higher by approx. 5°C ~ 10°C

“MED” Approx. 2°C ~ 7°C

“MAX” Lower by approx. -1°C ~ 4°C

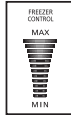


Freezer compartment temperature control

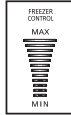
The temperature can be adjusted for MIN - MAX levels. Indicating operate and cool level.



“MAX” Lower by approx. -19°C ~ -24°C



Approx. -17°C ~ -22°C



“MIN” Higher by approx. -13°C ~ -18°C

Remark

While operating the refrigerator for the first time, after connecting the plug, adjust the temperature to “MIDDLE” position of each control and leave it for 24 hours for the effective cooling operation. After that, adjust the temperature as you prefer. If you want to save the energy, do not adjust the temperature lower than the actual operating condition.

TEMPERATURE CONTROL


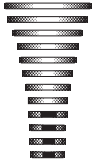
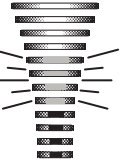
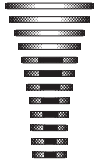
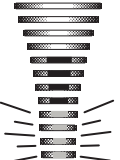
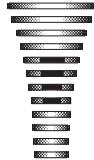

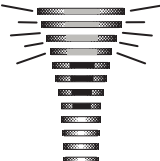
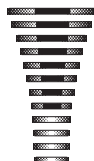
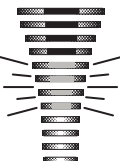



This refrigerator is specially designed for appropriate use, which can adjust the temperature level to detailed 9 levels with the following details.

How to operate the “9 levels” mode

1. Set LED display to “MIN” with the “Freezer control” button.
2. Press the “Freezer control” button (for 10 seconds) until the LED display return to show at “MIN” position.
3. Set “9 levels” mode following below table mentioned by pressing the “Freezer control” button.

To reset the setting “9 levels” mode



Repeat step 1 and 2 , then the refrigerator return to normal operation mode.

Cooling Level	Minimum 				
Step	1	2	3	4	5
FREEZER CONTROL LED DISPLAY					
Cooling Level					Maximum
Step	6	7	8	9	
FREEZER CONTROL LED DISPLAY					
	 Lighting		 Blinking		

INVERTER CONTROL DISPLAY


How to operate the “QUICK FREEZING” mode

■ QUICK FREEZING



ON	Press the button “QUICK FREEZING” (Blue light LED  turns on)
↓ } 150 min “QUICK FREEZING” mode.	
OFF	The system will stop operating automatically when it runs for 150 min and return to normal mode (Blue light LED  turns off)



Remarks

- If you want to stop the operation, press the button “QUICK FREEZING”.
- Blue light LED  flashing means that the defrosting system is now working “QUICK FREEZING” mode will start right after the defrosting operation is finished.
- Freezer temp. control does not operate during “QUICK FREEZING” mode. (The compressor rotation is at the maximum level for “QUICK FREEZING” mode)

■ Others

- When pressing the buttons of both “QUICK FREEZING” and “ENERGY SAVING” at the same time
 1. Blue light LED  (“QUICK FREEZING”) turns on.
 2. After “QUICK FREEZING” mode for 150 min is finished and its Blue light LED  turns off, “ENERGY SAVING” mode starts to operate.

FOOD STORAGE

1. Clean the food and its package or container before placing it into the refrigerator.
2. Foodstuff such as vegetable, meat, fish should be wrapped with plastic film or pack in box before freezing or refrigerating in the refrigerator. This is to maintain their freshness and to prevent unpleasant odor.
3. Do not overload the refrigerator. Gap must be provided between foodstuffs to maintain the cooling effect.



FOOD STORAGE IN THE FREEZER COMPARTMENT



Maximum Storage

If the inserted food exceeds edge of container, the cooling performance may be reduced or the compartment may become frosted.

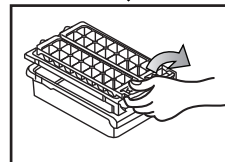
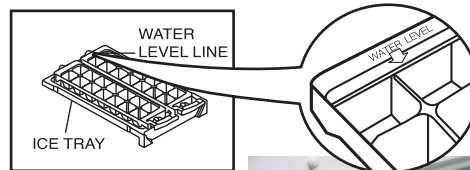
HOW TO MAKE ICE CUBES

STEP

1. Pull out the ice tray.
2. Fill water in the ice tray until the water level line, then place it back.
3. To remove ice cubes, TWIST the ice tray CLOCK WISE. The ice cubes will drop into the ice box.

Remark

Do not pour water into the ice box for ice making, otherwise the ice box may get cracked.



HOW TO CLEAN THE REFRIGERATOR

Interior cleaning

Always disconnect the plug before cleaning. After that, clean the refrigerator with warm water. If the refrigerator is very dirty, clean it with warm water and soap using a soft cloth. Then wipe the soap off using damp soft cloth.

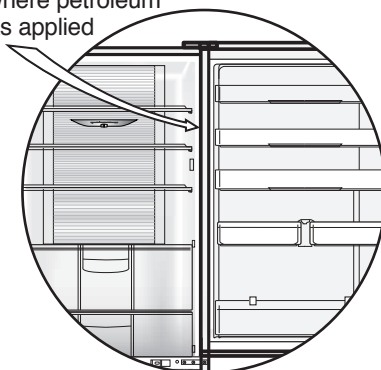
Exterior cleaning

Clean the outer side of the refrigerator with warm water and soap using a soft cloth. After that wipe the soap off using soft cloth and wipe it with dry soft cloth. Do not use cleaner with chemical mixture or soap with acid mixture as it will leave stain on the refrigerator. Clean the refrigerator at least once a month.

How to clean the door opening seal

- At the area of inner door opening seal, petroleum gel was applied to reduce the friction to the refrigerator body. You can clean the door opening seal by wiping it softly and be careful not to wipe off the petroleum gel.
- The door opening seal fixing is designed to be replaceable when it reaches its end of life.
- While cleaning, if the seal is off from its groove, push it back into the groove.

Point where petroleum gel was applied



REMOVING TRAYS FOR CLEANING

- **When removing the tray,** slightly lift up the innermost of the tray to release the side claws off the locking cavity at cabinet wall. Then pull the tray toward yourself.



- **When attaching the tray,** push until it reaches the end and then push the innermost downward to lock its side claws with the locking cavity at cabinet wall.



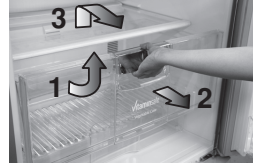
Remark

- When removing tray above vegetable case, please pull out the vegetable case first (Please following page 12) and then follow to removing the tray as above details.
- In case of attaching the tray and it does not lock, make sure that you did not attach it the wrong tray.

REMOVING THE VEGETABLE CASE AND CHILLED CASE FOR CLEANING

■ Removing the vegetable case for cleaning.

1. Pull the handle of vegetable case up a little.
2. Pull the vegetable case toward yourself.
3. Raise it up, then completely take out the vegetable case.



Note

To keep vegetable and fruit and to maintain its vitamins, please push until it locks properly after use or clean the vegetable case.

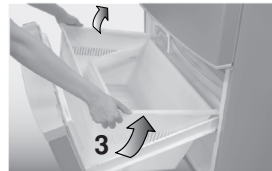
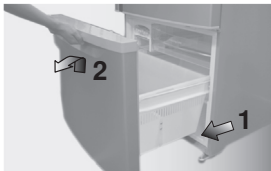
■ Removing the chilled case for cleaning.

1. Pull the chilled case toward yourself.
2. Raise it up, then completely take out the chilled case.



REMOVING THE BOTTOM FREEZER CASE FOR CLEANING

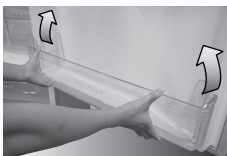
1. Pull the freezer drawer toward yourself.
2. Raise up a bit the front of the freezer drawer
Then pull the freezer drawer until stopper.
3. Lift both sides of bottom freezer case and
move it upward to remove.



REMOVING EGG SHELF, BOTTLE SHELF AND LEFT/RIGHT PROVISION COMPARTMENT SHELF FOR CLEANING

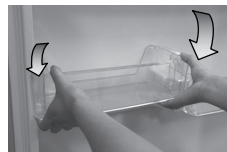
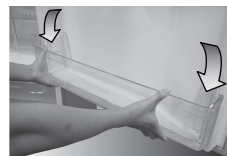
■ When removing egg shelf, bottle shelf, left/right provision compartment shelf

Lift up from left and right side and pull it upward yourself.



■ When attaching egg shelf, bottle shelf, left/right provision compartment shelf

Put in the egg shelf, bottle shelf, left/right provision compartment shelf placing it on both supporter, then press until it reaches the end of supporter.



REFRIGERATOR INSTRUCTION GUIDELINES

1. Do not open the refrigerator frequently or leave it open for a long time. This is to prevent water dripping inside the refrigerator and will cause the waste of coolness and consumption of energy.
2. Do not refrigerate unnecessary items or hard-to-rot foodstuff such as pumpkin, shallot, garlic, potato as it will make the refrigerator to work overload and waste the storage space without necessity.
3. Adjust the temperature according to the actual operating condition for energy saving.
4. Do not refrigerate bottles bigger than the door shelf or the tray as the door will not close completely causing coolness to leak.
5. Frequently check the door opening seal, it must be closed to the refrigerator's body completely. Do not leave the seal dirty or damaged or deteriorated as the coolness will leak and will cause unnecessary consumption of energy.
6. If you will not be at home for several days or there are nothing refrigerated in the refrigerator, the plug should be disconnected for energy saving, In this case, clean the refrigerator and leave it half-open to prevent bad odour.
7. Clean the drain tray located over the compressor at the back of the refrigerator every three months to prevent the odour generated from humidity.
8. Energy saving dryer pipes and heating pipes embedded around the refrigerator cabinet are helping to prevent "condensation" on the outer surface of the cabinet without consuming energy. This will make the outer wall of the refrigerator get warm and that is not a malfunction.
9. Drinking water bottles, beverage bottles such as soft drinks and fruit juices should be sealed closely to prevent odour to get into the bottles.

TROUBLESHOOTING

Before calling for servicing, please check the following.

The refrigerator does not operate.

- * Check that the plug and its socket are in good condition.
- * Check if there is any problem on main fuse and electrical system of the house.

The refrigerator does not cool properly.

- * Check to be sure that the temperature control button is at the proper position.
- * Check to see if the refrigerator is overloaded with stuff or there is any hot foodstuff refrigerated inside.
- * Is the refrigerator exposed directly to sunlight or heat source?
- * Is the refrigerator door completely closed? Is the refrigerator door opened frequently?

Vapor generated inside and outside the cabinet.

- * Condensation may appear on the surface of cabinet when humidity is high, e.g. during rainy season or the air circulation is not good.
- * If there is condensation inside, check if the door is completely closed. Is the refrigerator frequently opened or left open for a long time? Is there any hot foodstuff refrigerated inside?

The refrigerator generates noise.

- * Check if the refrigerator is located on a stable floor or is installed properly.
- * Check if there is any object in contact with the refrigerator.

