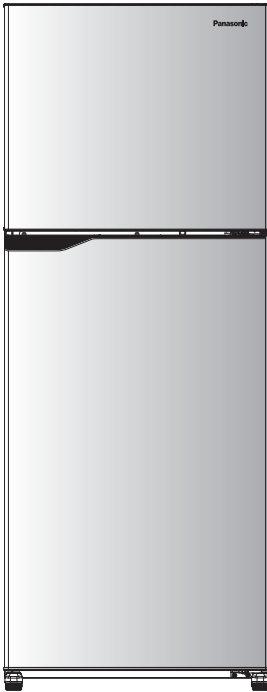


Operating Instructions

Refrigerator (For Household Use)

Model No. NR-TBG27



NR-TBG27

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Thank you for purchasing this Panasonic product.

- Before operating this unit, please read these instructions completely.

Before using this product, please pay particular attention to the “Safety precautions” section (Pages 2 – 4) for safe use.

- Please ensure the date and name of store of purchase are stamped in warranty card and keep it stored together with these operating instructions in a safe place for future reference.

Safety Precautions



WARNING

This expression presumes possibility of a death or serious injury.



CAUTION

This expression presumes possibility of personal injury or property damage.



Do not



Make sure you do this



Do not take apart



R600a

iso-butane

Risk of fire / flammable materials



WARNING

For power plug and cord...



- Periodically wipe the power plug with a dry cloth. (Dust accumulated on the plug of a refrigerator that operates continuously leads to reduced insulation due to moisture and may cause fire.)
- Plug into a wall outlet of the rated voltage on its own with the rated current and insert plug fully.
- Connect to an exclusive wall outlet for the refrigerator only. Avoid connecting other appliances to the same wall outlet. Unroll entire length of the cord before plugging in.
- Unplug the unit when cleaning the refrigerator.
- 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.
- Please ensure clearance for air ventilation and prevent damage to the power cord.



- Do not let the cord get damaged.
- Do not insert or disconnect the power plug into/from the wall socket with wet hands.

In order to prevent fires, electrical shocks, explosion, injuries, etc.



In case of emergency...



R600a

iso-butane

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



- Do not store explosive substances such as aerosol cans with a flammable propellant and chemicals or scientific specimens in the appliance.
- WARNING:** Do not use electrical appliances such as a deodorizer in the refrigerator. Leaked refrigerant may catch fire from a spark of the electrical contacts and may cause an explosion.
- 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 disassemble, repair or modify the refrigerator by yourself. If you want to repair the refrigerator, please contact Help line: Panasonic Customer Care all locations where is mention.
- WARNING:** Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.

When recycling the product...



- Before taking the refrigerator to be recycled, please remove all the door gasket to prevent locking a child in it.
- The operating instructions should be handed over to any person who would use or handle the refrigerator whenever the refrigerator would be transferred to another location and delivered to a recycling plant.
- Cyclo-Pentane is used for insulation of this refrigerator and flammable gas is used for refrigerant. When disposing of this unit, please discard it by the proper method and do not dispose of the unit by burning.
- The warning labels mentioned above should be kept throughout the life of the refrigerator.

On top of the refrigerator...



- Do not put anything on top of refrigerator. Otherwise, it may fall due to vibration of the machine.



WARNING

When installing...



- Do not install the product in locations exposed to water.
- Do not block the ventilation port of the refrigerator or spaces around it. Leaked refrigerant may cause a fire and explosion.



- For safety it should be checked that the ground connection system in the house has been installed correctly.
- Provide a grounding connection or install a ground-fault interrupter when the product is installed in a humid or wet location. (Contact your distributor.)
- **WARNING:** Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.

When using...



- Do not let any children hang or ride on the refrigerator door, the unit may turn over and cause an accident.
- Do not apply water on the body or interior. Electrical insulation could deteriorate and may cause shocks or fire.
- **WARNING:** Do not damage the refrigerant circuit (piping on the back). The flammable refrigerant may catch fire and lead to an explosion.
- Do not touch the compressor or pipes because of high temperature. There is a risk of burn injury.
- Do not spray combustible chemicals near the refrigerator.



- If you detect a burning smell, disconnect the power plug.
- If you detect a gas leak from the cooling range, ventilate the kitchen.
- If you have damaged the refrigerant circuit (piping on the back), then ventilate the kitchen and contact Panasonic service center.
- Refrigerator LED lamp.
The refrigerator LED lamp is designed specially for this product, it does not function on individual replacing.
If replacement is required, please contact Help line: Panasonic Customer Care all locations where is mention.



- 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.
- Children should be supervised to ensure that they do not play with the appliance.
- This appliance is intended to be used in household and similar applications such as
 - staff kitchen areas in shops, 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.



CAUTION

When storing food...



- Do not freeze glass bottles, that there is a risk of injury. (If the liquid in a glass bottle is frozen and broken, you may be injured.)



- Do not touch frozen foods or containers (especially metallic) with wet hands.
- Do not place warm/hot foodstuffs in the refrigerator. Store warm food and drinks after they have cooled.
- Do not eat any smelling or colour-changed food. Rotten food may cause illness.
- Do not subject glass trays to high impact. (Otherwise those glass trays may break and you may be injured)



- Food containers must reach the bottom of the door shelves.
- The foods must not protrude from the shelf.



When opening/closing the doors...



- Do not open the refrigerator doors when someone is in the vicinity of the refrigerator.
- Do not open refrigerator frequently or leave it open for long time in order to prevent water dripping inside and waste energy.
- Mind the gap between the doors. They may nip your hand while closing the door.

When cleaning...



- Do not clean the refrigerator with chemical substance or liquid. It will cause damage and have corrosion on the surface.
- Do not place your hands or feet beneath the bottom of the refrigerator.

When moving or transporting the refrigerator...



- Do not transport refrigerators in a horizontal position. Laying a refrigerator horizontally may damage the piping. If any damage is noticed, do not touch the refrigerator, avoid using fire and ventilate the room.



- Apply protective covering, etc. to floors with a fragile surface.
- Hold the refrigerator tightly when transporting.



The refrigerator will not be used for a long period of time.

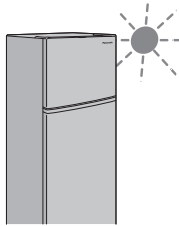


Unplug the refrigerator and take out all the food in the refrigerator. Wipe off all the water and open the refrigerator to keep it dry. Prevent children from enter the refrigerator.

Installation

Is the refrigerator installed in the following locations?

- Locations subject to heat and direct sunlight (The cooling power will be reduced and electricity wasted.)
- Poorly ventilated locations with high humidity (Rust will be caused.)
- Locations where the surface is unstable and slanted
→ On carpet, mats, or vinyl floors, place a plate underneath the refrigerator.
- Locations not allowing the power plug to be cleaned easily
(Dust accumulated may cause a fire.)



Refrigerator doors should not be opened during the interior cooling process.

The doors should not be opened until the interior has been cooled down sufficiently.

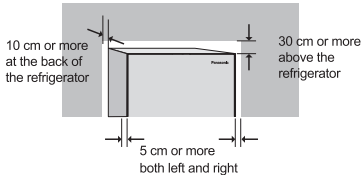
(Warm air flowing into the interior will block the cooling function.)



Please wait until the interior has cooled down.

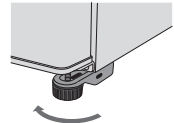
- It may take approximately four hours to cool down the interior.
- It may take 24 hours or more to cool down the interior and achieve equilibrium in the summer, etc.

Has a heat radiating space been provided around the refrigerator?

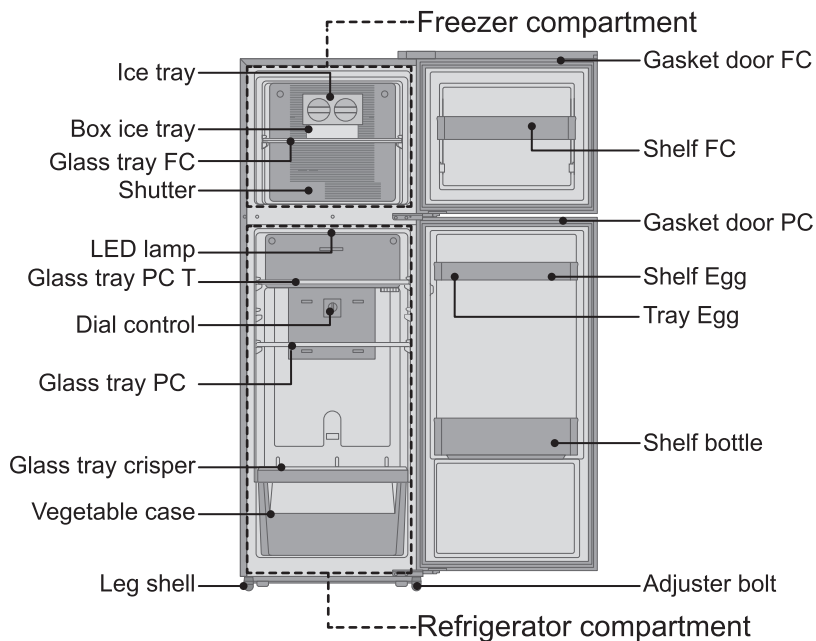


Fix the refrigerator.

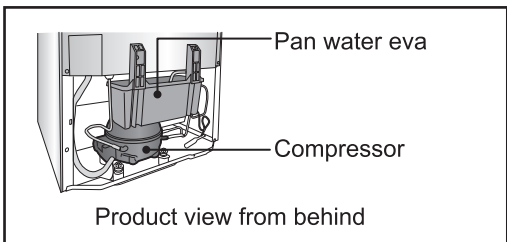
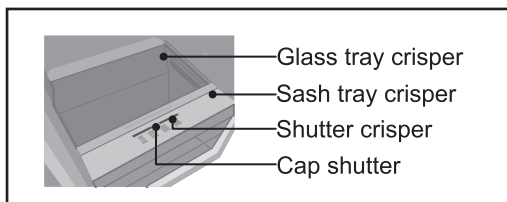
Turn the adjuster bolt until they reach the floor to stabilize the refrigerator.



Parts Identification

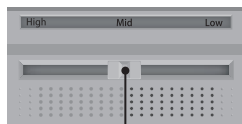


* Images shown only for reference.



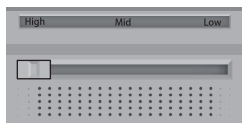
Humidity control of vegetable case

The humidity of Vegetable case can be changed.



Cap shutter

- To raise the humidity
Move the Cap shutter to the left.



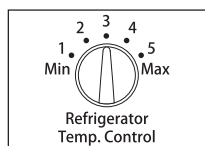
- To lower the humidity
Move the Cap shutter to the right.



To use all features

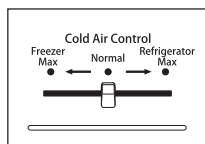
Temperature Control

Operate the Dial control (Refrigerator Temp. Control) when changing the temperature of REFRIGERATOR COMPARTMENT.



TEMP. CONTROL REFRIGERATOR COMPARTMENT	
"1" (Min)	Higher than "3" by approximately 2°C ~ 3°C
"3"	Approximately 3°C ~ 5°C
"5" (Max)	Lower than "3" by approximately 2°C ~ 3°C

Operate the Shutter (Cold Air Control) when changing the cold air condition.



COLD AIR CONTROL	
"Freezer Max"	FREEZER COMPARTMENT takes priority.
Normal	Cold air condition is normal.
"Refrigerator Max"	REFRIGERATOR COMPARTMENT takes priority.

Note: Temperature of Refrigerator depends on environment, room temperature and food storage quantity.

■ SPECIAL FEATURE

●NON-FLON

This unit uses totally NON-FLON MATERIALS both for refrigerant (iso-butane (R600a)) and for insulation (Cyclo-Pentane). These materials do not damage the earth's ozone layer and has almost no effect on global warming.

●INVERTER

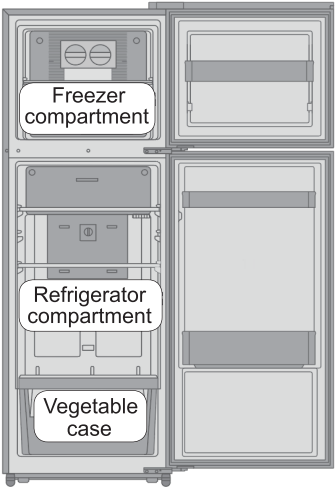
In accordance with temperature change inside the compartment, the motor will run at different speeds. When the temperature inside the refrigerator is stable, the motor will run at a lower speed to save energy and lower noise. When powerful cooling is required, the motor will run at a higher speed.

Food Stored

■ In order to preserve food quality for long time, please store it in the right place.

When storing food...

- Foodstuff such as vegetable, fruits and fresh food should be wrapped or pack in box before freezing and refrigerating.
- If you will put high moisture content into refrigerator, should be sealed and wrapped to prevent dew and frost.
- Drinking water, beverage bottles should be sealed to prevent the odour.
- Store fruits and vegetables in vegetable case, where trapped moisture helps preserve food quality for longer time periods.



Where to store these different foodstuffs?

Approx. -23℃ ~ -15℃	Freezer compartment	For storage of frozen or dried foods. 
Approx. 0℃ ~ 8℃	Refrigerator compartment	For regular storage of food and drinks or temporary storage of these to be served soon. 
Approx. 2℃ ~ 10℃	Vegetable case	A rather high humidity keep fruits and vegetables fresh and juicy. 

- When set to “3”, the temperature may vary slightly depending on the usage conditions.

Using Tips



Basics of energy saving
Save cool air!

Do not stuff food into the compartments.

That may interfere with the cold air flow. Provide sufficient space between foods.

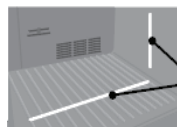


Store warm food and drinks after they have cooled.

Otherwise, they will not only raise the interior temperature, but also affect the freshness of other foods.



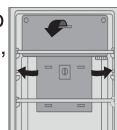
Do not place food in front of the food storage line.



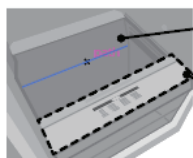
Food storage line

Do not block the cold air outlet with food items!

If cool air does not spread into every corner of compartments, then the interior will not be sufficiently cooled and more electricity will be consumed.



When placing food on the glass tray crisper, place the food on the glass. Do not place food on the sash tray crisper (plastic part) on the front side.



Glass tray crisper

Sash tray crisper

When condensation occurs.

- The humidity in the vegetable case is high and condensation may occur. Just wipe off the water drops.

Do not put food in the refrigerator when it is not necessary.

- A cold dark place will suffice!



It is not necessary to store uncut onions, potatoes, etc. in the refrigerator (except during the summer).

- Cool just before you eat!



If uncut tropical fruits are cooled down excessively, they may be discolored or their vitamin contents may decrease.

Storage using tightly sealed containers is recommended!

To prevent the interior from being discolored!



To prevent odors from spreading!

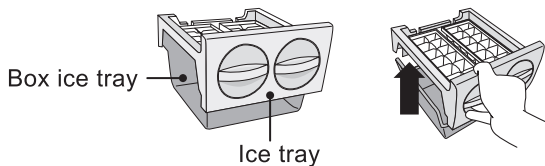


- Cut citrus fruits
(→ The plastic will be discolored white.)
- Garlicky or other strong smelling vegetables
(→ Odors will spread to other nearby food.)

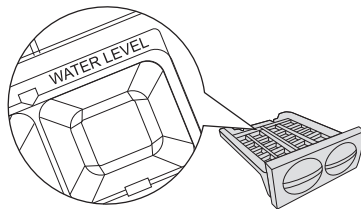
Freezer Compartment

To make ice

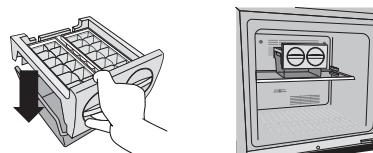
- 1** Remove the Ice tray.



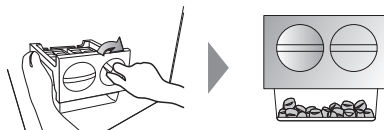
- 2** Fill with water.
Fill water up to the "WATER LEVEL" line.



- 3** Attach the Ice tray to the box ice tray and place it into the Freezer compartment.



- 4** To remove ice cubes, suppress the frame with left hand and twist the dial ice cube tray clockwise with right hand.
The ice cubes will drop into the box ice tray.



Three tips for freezing food and locking in the flavour...

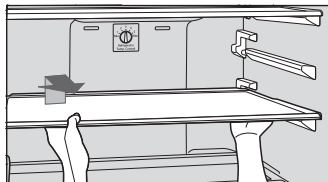


1. Freeze thin and small items of food quickly!
2. Fully sealed
3. Do not refreeze

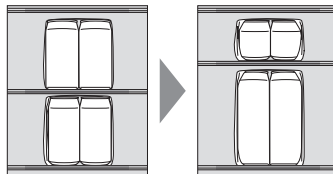
Refrigerator Compartment

**The position of Glass tray PC can be changed.
(Glass tray PCT and Glass tray crisper were expected)**

(1) Lift up the back of the tray and pull it forward.



(2) Insert the tray in the desired position by reversing the steps.



- Glass shelves are heavy. Please handle them with care so that they do not fall and cause any damage or injury.
- Glass tray PC cannot be put on the position of Glass tray PCT. (P. 6)

Stabilizer Free Operation

The product is defined to operate at a voltage range (100V – 300V)** without stabilizer under specific test conditions.

**Note: As per internal test standard.

Cleaning, removing and re-installing

Before cleaning or conducting maintenance, be absolutely sure to disconnect the power plug from the power outlet. Do not connect or disconnect the power plug with wet hands. When the plug is disconnected, leave it for 10 minutes before plugging again. If not, the compressor may not work.

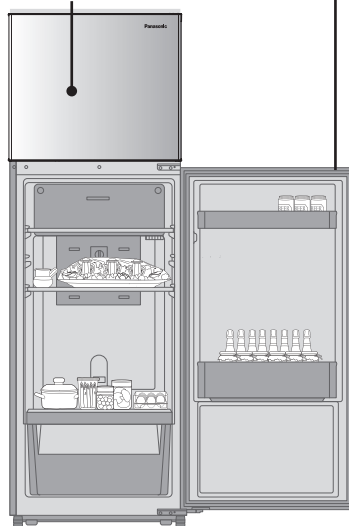
Cleaning

Clean the refrigerator immediately after it is stained!.

Wipe off stains on the interior surfaces quickly before they harden. In particular, cooking oil may cause plastic to crack and citrus juice may cause the refrigerator to become discolored. When stains cannot be removed easily, wipe them with a cloth lightly soaked in neutral kitchen detergent. Then, wipe with a cloth lightly dipped in water.



Wipe the door surface with a soft damp cloth.



Clean the detachable items occasionally...

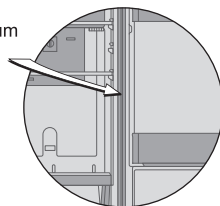
Once a week for the ice tray. As a guide, remove the trays, door shelves, etc. and wash them by immersing them in lukewarm water every three months.



Clean the door gasket at least once a month.

Clean by wiping with a soft damp cloth. Petroleum gel has been applied to the door gasket on the hinge side of the unit, be careful not to wipe this off.

Point where petroleum gel was applied.

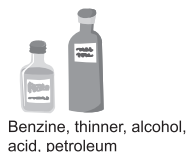
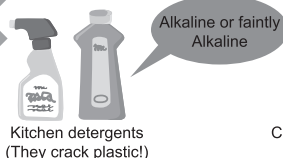


Notices

The Gasket door is replaceable by an authorised service agent. If the Gasket door comes off while cleaning, it can be pushed back into the groove.

Requests

Do not use the following items for cleaning. (Otherwise, the surface will be scratched.)

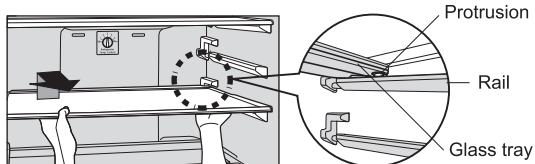


Removing and re-installing

Glass tray PC and PC T

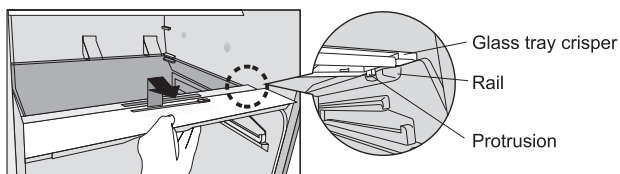
● Trays

Lift up the back of the tray and pull it forward. Once the protrusions of the tray are unhooked from the rails, tilt the tray and remove it.



Glass tray crisper

Lift up the front of the tray and pull it forward. Once the protrusions of the tray are unhooked from the rails, tilt the tray and remove it.



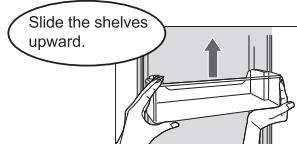
Attention

- If the tray does not lock when it is installed, make sure that it is not installed upside down or backwards.
- Trays are made of glass and heavy.
Please handle them with care so that they do not fall and cause any damage or injury.
For attaching trays, hold them with the protrusion side down and firmly insert.

Shelf FC, Shelf Egg and Shelf bottle

■ Removing

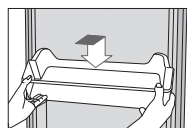
Hold the shelf with both hands and then lift it up.



Shelf bottle

■ Attaching

Place it on both supporters, and then press until it reaches the end of supporters.

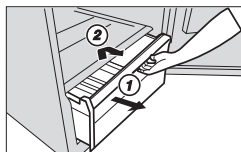


Shelf bottle

Vegetable case

■ Removing

- ① Pull the Vegetable case forward until it reaches the end of the stopper.
- ② Lift the front of the Vegetable case slightly and remove completely.



■ Attaching

- ① Insert the Vegetable case into the rail.
- ② Lift the front of the Vegetable case slightly and push forward until the end is reached.



Troubleshooting

In these cases?	Check here.
The refrigerator does not operate.	• Check that the plug and wall socket are in good condition. • Check if there is any problem with the mains fuse or house wiring. • Check by unplugging for 10 minutes and plugging back in.
The refrigerator does not cool enough.	• Check to be sure that the temperature control dial is at the proper position. • Check to ensure that the refrigerator is not overloaded with foodstuffs or that hot food have been placed in the refrigerator. • Is the refrigerator exposed to direct sunlight or a heat source? • Is the refrigerator door completely closed? • Is the refrigerator door opened frequently?
Vapor generated inside and outside the cabinet / surface of door.	• Condensation may appear on the surface of the cabinet when humidity is high or air circulation around the unit is poor. • If there is condensation inside, check if the door is completely closed. • Is the refrigerator door frequently opened or left open for a long time? • Have any moisture-rich foodstuffs been placed inside the refrigerator?
The refrigerator generates noise.	• Check if the refrigerator is located on a stable, level floor and is installed correctly. Use the adjuster bolt if required to level the refrigerator. (P. 5) • Check if there is any object in contact with the refrigerator. • Cracking sound within caused by the parts adjusting temperature which is normal. • After installation, the refrigerator may make loud noise. The noise will be less when the refrigerator has been cooled.
Food becomes frozen	• Was the food placed near the cold air duct? • If the temperature control has been set to "5" (Max) try adjusting the temperature control to the "1" (Min) setting.

Specifications

Model No.		NR-TBG27
Freezer Star Rating		
Capacity (L) (IS 15750)	Total	268
	Freezer	83
	Refrigerator	185
Outside Dimensions Width x Depth x Height (mm)		600 x 681 x 1485
Refrigerant Type		R600a
Net Weight (kg)		51
Cooling System		Non-frost cooling.
Rated Voltage (V)		230
Rated Frequency (Hz)		50

Information on hazardous constituents as specified in sub-rule 1 of rule 16 (1) in electrical and electronic equipment.

Declaration of Conformity with the requirements of the E-Waste (Management) Amendment Rules 2018 with the rule 16 (1) limits with respect to Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls, Polybrominated diphenyl ethers.

The content of hazardous substance with the exemption of the applications listed in SCHEDULE II of the E-Waste (Management) Amendment Rules 2018 :

1. Lead (Pb) – not over 0.1% by weight;
2. Cadmium (Cd) – not over 0.01% by weight;
3. Mercury (Hg) – not over 0.1% by weight;
4. Hexavalent chromium (Cr6+) – not over 0.1% by weight;
5. Polybrominated biphenyls (PBBs) – not over 0.1% by weight;
6. Polybrominated diphenyl ethers (PBDEs) – not over 0.1% by weight.



For the purpose of recycling to facilitate effective utilization of resources, please return this product to a nearby authorized collection center, registered dismantler or recycler, or Panasonic service center when disposing of this product.

Customer care number (Toll free) : 1800 103 1333 ,1800 108 1333

Please see the Panasonic website for further information on collection centers, etc.
or call the customer care toll-free number

<http://www.panasonic.com/in/corporate/sustainability/panasonic-india-i-recycle-program.html>

Do's & Don't: E-waste (Management) Amendment Rules 2018

S.No.	Do's	Don't
1.	All electrical and electronic products are required to be handed over only to the Authorized recycler.	The product should not be opened by the User himself / herself, but only by authorized service personnel.
2.	The product should be handed over only to authorized recycler for disposal.	The product is not meant for re-sale to any unauthorized agencies / scrap dealer / kabari-walas.
3.	Keep the product in isolated area, after it becomes non-functional / un-repairable so as to prevent its accidental breakage.	The product is not meant for mixing into household waste stream.
4.	Refer to Operating Instructions for handling of end of life products.	Do not keep any replaced spare part(s) from the product in exposed area.
5.	Always dispose products that have reached end-of-life at Panasonic India Authorized Service Centre.	Do not donate old electronic items to any body. Do not dispose your product in garbage bins along with municipal waste that ultimately reaches landfill.
6.	Wherever possible or as instructed, separate the packaging material according to responsible waste disposal options and sorting for recycling.	Do not give e-waste to informal and unorganized sectors like Local Scrap Dealer / Rag Pickers.

Panasonic Corporation

<http://www.panasonic.com>

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