



# SIDE BY SIDE REFRIGERATOR

RS20\*\*\*\*

Write the model and serial number here:

Model # \_\_\_\_\_

Serial # \_\_\_\_\_



Find these numbers on a label of the refrigerator cabinet at the left hand-side wall.

## OWNER'S MANUAL AND INSTALLATION

Before operating the appliance, please read this manual carefully and retain for future reference.

### CONTENTS

<b><i>SAFETY WARNING SIGNS</i></b> .....	2
<b><i>OPERATING INSTRUCTIONS</i></b> .....	4
PREPARING THE APPLIANCE FOR USE .....	4
FEATURES .....	4
THE CONTROL PANEL .....	5
DIGITAL PANEL .....	5
THE CONTROL PANEL .....	6
TEMPERATURE CONTROL .....	6
OVERVIEW OF YOUR FREEZER/REFRIGERATOR .....	7
MAKING ICE .....	7
FOOD STORAGE GUIDE .....	8
REMOVING ACCESSORIES FROM THE FREEZER .....	10
REMOVING ACCESSORIES FROM THE REFRIGERATOR .....	10
CLEANING THE ACCESSORIES .....	11
REPLACING THE LIGHTBULBS .....	11
<b><i>INSTALLATION INSTRUCTIONS</i></b> .....	12
INSTALLATION OF THE REFRIGERATOR .....	12
ADJUSTING THE CLEARANCE BETWEEN THE DOORS .....	14
TROUBLESHOOTING .....	15

# SAFETY WARNINGS



## WARNING

- Before operating the appliance, please read this manual thoroughly and retain it for your reference.
- Because these following operating instructions cover various models, the characteristics of your refrigerator may differ slightly from those described in this manual
- The appliance is not intended for use by children or infirm persons without adult supervision.
- Children should be supervised to ensure that they do not play with the appliance.
- R600a or R134a is used as a refrigerant. Check the compressor label on the rear of the appliance
- Either R600a or R134a are the refrigerants used. Check the compressor label on the rear of the appliance and the rating label inside the fridge to see which refrigerant is used for your refrigerator.

## CAUTION/WARNING SYMBOLS USED

 <b>WARNING</b>	Indicates that a danger of death or serious injury exists.
 <b>CAUTION</b>	Indicates that a risk of personal injury or material damage exists.

## OTHER SYMBOLS USED

	Represents something you must NOT
	Represents something you must NOT disassemble.
	Represents something you must NOT touch.
	Represents something you must follow.
	Indicates that you must disconnect the power plug from the socket.
	Represents a ground is needed to prevent electric shock.
	It is recommended that this symbol be handled by service man.



## WARNING



**Do not plug several appliances into the same multiple power board.**

- This could cause overheating and the risk of fire.

**Make sure that the power plug is not squashed or damaged by the back of the refrigerator .**

- A damaged power plug may overheat and cause fire.

**Do not bend the power cord excessively or place heavy articles on it .**

- This constitutes a fire hazard. If the power cord is damaged, have it replaced immediately by the manufacturer or its service agent.

**Do not directly spray water inside or outside the refrigerator.**

- There is a risk of fire or electric shock.

**Do not spray inflammable gas near the refrigerator.**

- There is a risk of explosion or fire.

**Do not insert the power plug with wet hands.**

- You may receive an electric shock.

**Do not put a container filled with water on the refrigerator.**

- If spilled, there is a risk of fire or electric shock.

**Do not install the refrigerator in a damp place or a place where it may come in contact with water.**

- Deteriorated insulation of electrical parts may cause an electric shock or fire.

**Do not store volatile or flammable substances in the refrigerator.**

- The storage of benzene, thinner, alcohol, ether, LP gas and other such products may cause explosions.



**Do not disassemble or repair the refrigerator by yourself.**

- You run the risk of causing a fire, malfunctions and/or personal injury.



**Pull the power plug out of the socket before changing the interior light of the refrigerator.**

- Otherwise, there is a risk of electric shock.



**If you wish to dispose of the refrigerator / freezer throw it away after first removing the doors and seals.**

- Do so in a way, that is not possible for a child to remain trapped inside.



**The refrigerator must be grounded.**

- You must ground the refrigerator to prevent any power leak ages or electric shocks caused by current leakage from the refrigerator.



**Never use gas pipes, telephone lines or other potential lightning rods as ground.**

- Improper use of the ground plug can result in electric shock.



## WARNING

- Keep ventilation openings in the appliance enclosure or mounting structure clear of obstruction.
- Do not use mechanical devices or any other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- Do not damage the refrigerant circuit.
- Do not use electrical appliances inside the refrigerator/freezer, unless they are of a type recommended by the manufacturer.

# SAFETY WARNINGS



## CAUTIONS



### Do not overfill the refrigerator with food.

- If food falls out when you open the doors, there is a risk of personal injury and or material damage.

### Do not put bottles or glass containers in the freezer.

- When the contents freeze, the glass may break and cause personal injury.

### If the power plug socket is loose, do not insert the power plug.

- There is a risk of electric shock or fire.

### Do not disconnect the power cord by pulling on its lead.

- Damage to the cord may cause a short-circuit, fire and or electric shock.
- If the power cord is damaged, it must be replaced by the manufacturer, a certified service agent or qualified service personnel.

### Do not store articles on top of the appliance.

- When you open or close the door, the articles may fall and cause personal injury and or material damage.

### Do not store medicine, scientific materials and temperature-sensitive products in the refrigerator.

- Check product labels to make sure that refrigeration is not prohibited.

### Do not let children hang on the doors.

If you detect abnormal sounds, smells or smoke, pull out the power plug immediately and contact your nearest SAMSUNG Electronics service center.



### Do not place your hands in the area under neath the appliance.

- Any sharp edge may cause personal injury.

### Do not touch the inside walls of the freezer or products stored in the freezer with wet hands.

- It may cause frostbite.



### Do not use a wet or damp cloth when cleaning the plug. Remove any foreign matter from the power plug pins.

- There is a risk of burning and fire.

### If you wish to move the freezer/refrigerator, hold it by the handles on its back and bottom .

- If the appliance is disconnected from the power supply, you should wait for at least five minutes before plugging it back in.



### If the freezer/refrigerator will not be used for a long period of time, pull out the power plug.

- Any deterioration in the insulation may cause fire.



## CAUTIONS

The refrigerant used in the refrigerator/freezer and the gases in the insulation material require special disposal procedures. Ensure that none of the pipes on the back of the appliance are damaged prior to disposal.



This appliance contains a small amount of isobutane refrigerant (R600a), a natural gas with high environmental compatibility that is,

however, also combustible. When transporting and installing the appliance, care should be taken to ensure that no parts of the refrigerating circuit are damaged.

Refrigerant squirting out of the pipes could ignite or cause an eye injury. If a leak is detected, avoid any naked flames or potential sources of ignition and air the room in which the appliance is standing for several minutes.

- In order to avoid the creation of a flammable gas-air mixture if a leak in the refrigerating circuit occurs, the size of the room in which the appliance may be sited depends on the amount of refrigerant used. The room must be 1m<sup>3</sup> in size for every 8 g of R600a refrigerant inside the appliance. The amount of refrigerant in your particular appliance is shown on the identification plate inside the appliance.
- Never start up an appliance showing any signs of damage. If in doubt, consult your dealer.

# PREPARING THE APPLIANCE FOR USE

Once you have performed the following steps, your freezer/refrigerator should be fully operational. If not, check the power supply and electricity source. If you have any doubts or problems, contact your nearest SAMSUNG service center.

**1**

Place the shelves and containers which were removed for transport in their appropriate positions (refer to pages 8 to 9).

**4**

Set the temperature control to the coldest temperature and wait for one hour. The freezer/refrigerator should now be slightly chilled and the motor should run smoothly producing a soft humming noise.

**2**

Clean the freezer/refrigerator and accessories to remove any dust that may have accumulated during packing and shipping (refer to page 9).

**5**

Once the freezer/refrigerator temperature is sufficiently cool, you can begin storing food inside. Please be advised that it takes a few hours after starting the freezer/refrigerator to reach the appropriate temperature.

**3**

When the refrigerator is plugged in, the interior light should illuminate every time the refrigerator door is opened.

## FEATURES

### Multi-Flow System

- Cool air circulates through multiple vents on each shelf level. This provides even distribution of cooling inside of freezer/refrigerator and keeps food fresher for longer.

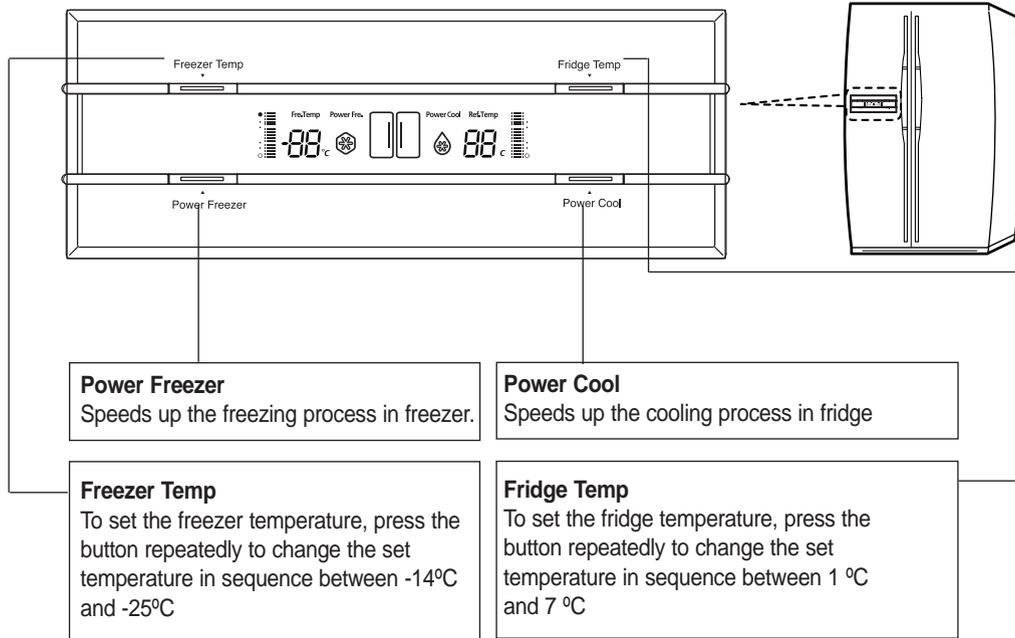
### High humidity for fresher food

- You can keep food, fruit and vegetables fresh for longer because your refrigerator supplies highly humidified cold air.

### Door alarm

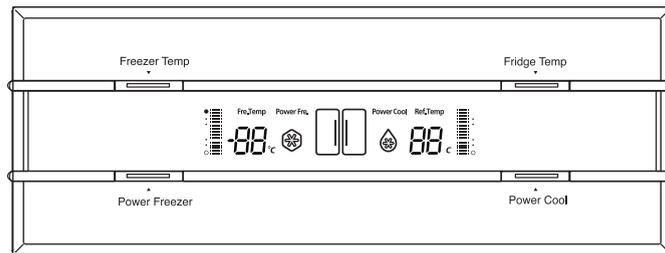
- When the refrigerator door is left open for more than two minutes, a musical alarm is automatically triggered. This feature helps you save electricity and preserve stored foods.

# THE CONTROL PANEL



OPERATING INSTRUCTIONS

# DIGITAL PANEL



**Freezer Temp** : Indicates the current freezer temperature.  
**Fridge Temp** : Indicates the current fridge temperature.

## Power Freeze



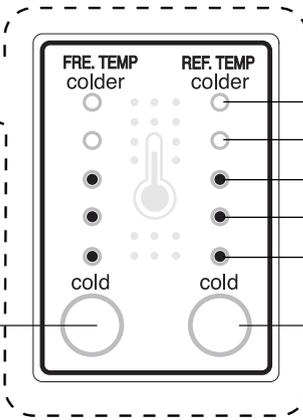
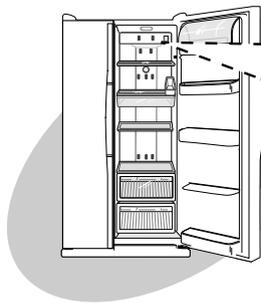
- This light is on when you press the Power Freezer button. Press the button to make the freezer reach the set temperature quickly.
- Press the button again to cancel the Power Freezer mode.

## Power Cool



- This light is on when you press the Power Cool button. Press the button to make the fridge reach the set temperature quickly.
- Press the button again to cancel the Power Cool mode.

# THE CONTROL PANEL



- LED No ⑤
- LED No ④
- LED No ③
- LED No ②
- LED No ①

**FRE. TEMP. BUTTON**  
To set the freezer temperature, push the button repeatedly to select a level between 1 level (cold) to 9 level (colder).

**REF. TEMP. BUTTON**  
To set the refrigerator temperature, push the button repeatedly to select a level between 1 level (cold) to 9 level (colder).



- The higher level you set, the lower temperature inside the unit.

**NOTE**

# TEMPERATURE CONTROL

## Freezer

- The freezer temperature can be set to a level between 1 level (cold) to 9 level (colder).
- Push the **FRE. TEMP.** button **repeatedly** until the desired level is reached.  
-.At each level, the LED lamps will turn on or off as shown on the table.

## Refrigerator

- The refrigerator temperature can be set to a level between 1 level (cold) to 9 level (colder).
- Push the **REF. TEMP.** button **repeatedly** until the desired level is reached.  
-.At each level, the LED lamps will turn on or off as shown on the table.

## Control levels table

Reference	cold → normal → colder								
	1	2	3	4	5	6	7	8	9
LED Condition	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	●
● (on)	④	④	④	④	④	④	●	●	●
○ (off)	③	③	③	③	●	●	●	●	●
◐ (blink)	②	②	●	◐	●	●	●	●	●
level	1	2	3	4	5	6	7	8	9

\* At level 2,4,6,8 the LED which is marked with (◐) will light up fully (●) after blinking for 5 seconds.

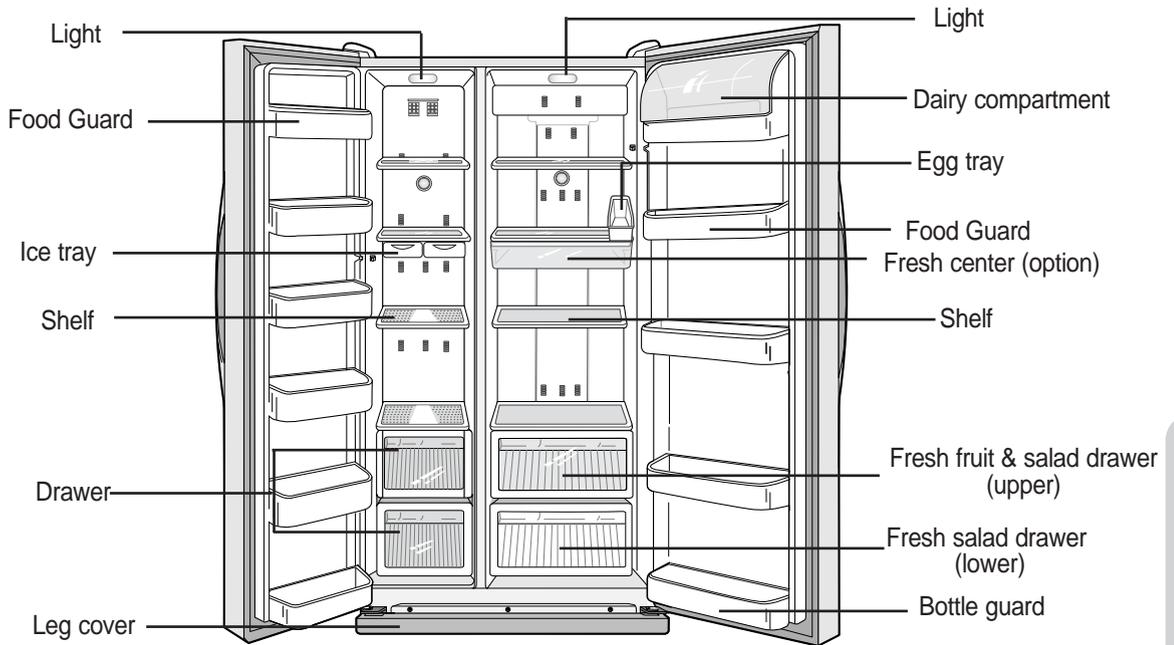


**NOTE**

- For your convenience, your freezer/refrigerator controls have been preset at the factory. The freezer/refrigerator control should both be set to NORMAL (level 5) when you first install your freezer/refridgfator.

# OVERVIEW OF YOUR FREEZER / REFRIGERATOR

## FREEZER / REFRIGERATOR



## MAKING ICE

**1** Pull out the ice tray.



**3** Place it under the freezer shelf or on the freezer shelf.



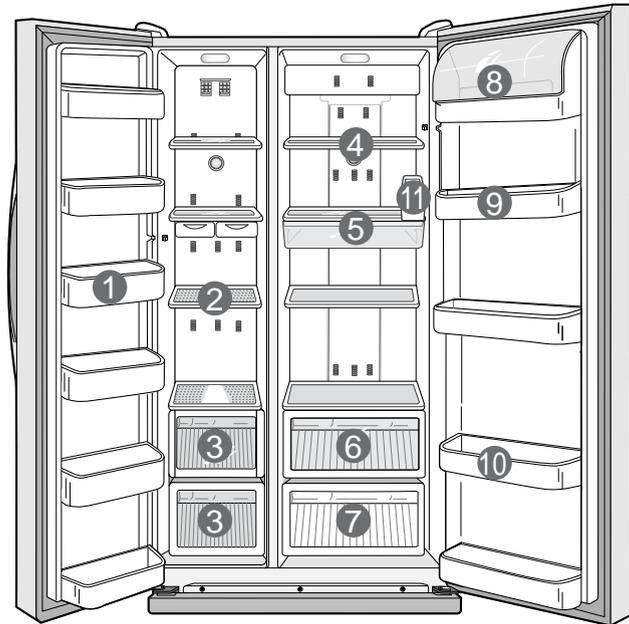
**2** Pour water into the tray until it reaches the water level indicator on the tray.



**4** To separate individual ice cubes, pull out the ice tray and hold the ice tray by its ends, then twist it gently.



# FOOD STORAGE GUIDE

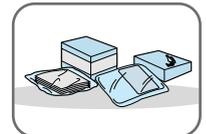


## FOOD STORAGE GUIDE TO FREEZER

1

### Food Guard

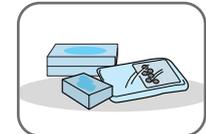
For storing small packages of frozen food.



2

### Tempered glass shelf

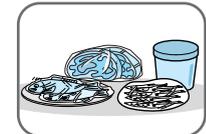
For storing all types of frozen food.



3

### Meat and dry goods storage compartment

For storing meat and dry goods. Stored food should be wrapped securely using foil or other suitable wrapping materials.



4

### Tempered glass shelf

• Can be used safely because it will not break if it falls.



5

### Fresh center (option)

• Preserve the taste of food and prolongs its freshness. Use the fresh center to store cheese, meat, snacks, fish or any food to be used quickly.

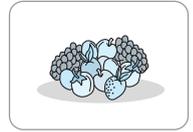


# FOOD STORAGE GUIDE

6

## Fresh fruit & salad drawer (Upper)

- Stores fruit.
- This compartment preserves freshness for a long period of time by maintaining the moisture in the food.
- ✱ To create more storage space, simply remove the drawer.



7

## Fresh salad drawer (Lower)

- Stores vegetable.
- This compartment is airtight and maintains the moisture content and freshness of the food for a long time as items stored inside are not directly affected by the cooling system of the unit.



8

## Dairy compartment

- Stores fatty foods, like butter and cheese.



9

## Food Guard

- Stores such as milk and yoghurt in small packages.



10

## Bottle guard

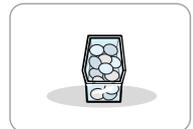
- Stores a variety of bottles, cans and cartons.



11

## Egg tray

- Stores eggs in the egg tray and then place the tray on the tempered glass shelf.

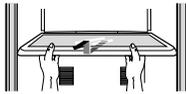


- Food stored under ambient temperatures of 5 °C or lower can be frozen.

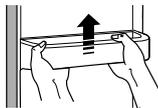
NOTE

# REMOVING ACCESSORIES FROM THE FREEZER

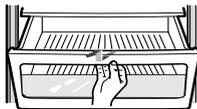
- 1 Tempered glass shelf**
- Pull the shelf out as far as it goes. Then lift it up and remove it.



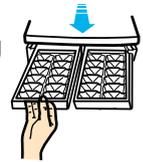
- 2 Food Guard**
- Hold the guard in both hands and then lift it up.



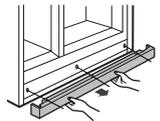
- 3 Drawers**
- Remove the compartment by pulling it out and lifting it up slightly.



- 4 Ice tray and cube**
- Remove the ice tray by pulling it towards you.



- 5 Leg cover**
- Open the freezer and refrigerator doors, remove the three screws and detach the leg cover.
  - To reassemble the leg cover, replace it in its original position and tighten the three screws.
- ※ Only remove the leg cover when absolutely necessary.

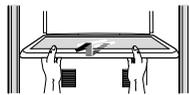


## Warning

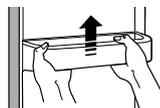
- Do not use excessive force when removing the accessories, otherwise, it may cause personal injury.
- Do not place top side shelf of freezer in any other location, it may get dropped, damaged and cause personal injury.
- Before removing accessories from the freezer and refrigerator always move stored food to other space first.

# REMOVING ACCESSORIES FROM THE REFRIGERATOR

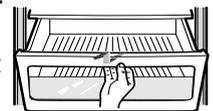
- 1 Tempered glass shelf**
- Pull the shelf out as far as it will go. Then lift it up and remove it.



- 2 Bottle guards and food guard**
- Hold the shelf in both hands and remove it by lifting it up.



- 3 Fresh fruit & salad drawer and lower shelf**
- Remove the compartment by holding the handle, pulling the compartment towards you and lifting it up slightly.
  - Remove the lower shelf by pulling it towards you.
  - Keep the sequence (first, remove fresh fruit salad draw after then remove lower shelf)
  - Lower shelf can be damaged if you do not keep the sequence.



# CLEANING THE ACCESSORIES

## Inside

- Clean the accessories using a mild detergent. Then wipe with a dry cloth.
- After washing the accessories, make sure that they are dry before using them again.



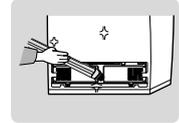
## Exterior

- The doors and door handles should be cleaned with a mild detergent and cloth. Dry them with a clean cloth.
- The exterior should be polished once or twice a year.



## Rear

- Use a vacuum cleaner to remove dust once or twice a year.



## Rubber door seals

- If the rubber door seals are dirty, the door will not close properly and the refrigerator and freezer will be unable to function efficiently.



Clean them with a mild detergent and damp cloth. Then wipe them with a dry cloth.



## Warning

- When cleaning the appliance or if the appliance will not be used for a long time, always turn the power off, leave the doors open and keep the appliance dry.
- Do not clean it by spraying it directly with water.
- Do not clean it with benzene, thinner or car detergent.

# REPLACING THE LIGHTBULBS

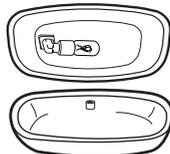
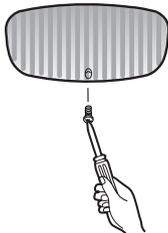


## WARNING

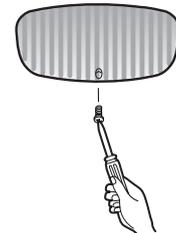
Before replacing the lightbulbs light, unplug the appliance from the power supply. If you experience difficulty when you attempt to replace the lightbulbs contact your nearest samsung service center.

## LIGHTBULBS

- 1** Remove the lamp cover. Use the screw driver to remove the screws securing the lamp cover.



- 2** After replacing the bulb, reassemble the cover with a screw.



## NOTE

The rated wattage of lightbulbs are marked on the lamp cover and lightbulbs.

# INSTALLATION OF THE REFRIGERATOR



## Checking the dimensions of your entrance door

Checking the dimensions of your entrance door to determine whether the refrigerator can pass through it.

\* Dimensions of the appliance

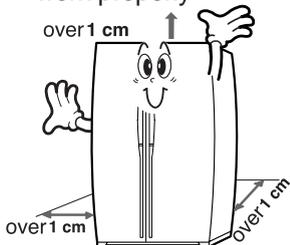
	Dimensions (mm)	Remark
Width	850	
Dept	724	with door
Height	1722	with hinge

Allow a clearance of 1 cm to the right, left and rear side when installing the appliance; as this will help to reduce power consumption.

### 1

#### Allow sufficient space to install the appliance on a flat surface.

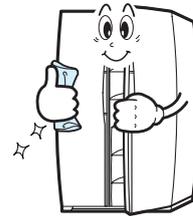
- If your appliance is not level, the internal cooling system may not work properly



### 2

#### Clean your freezer/refrigerator.

- Wipe the inside and outside of your freezer/refrigerator with a dry cloth.



### 3

#### Store food in the freezer/refrigerator.

- Wait for at least two or three hours after plugging your appliance in before storing food and other items inside.



# INSTALLATION OF THE REFRIGERATOR



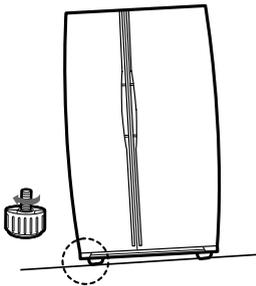
## LEVELLING

When you adjust the level of the freezer/refrigerator, set the front legs slightly higher than the rear legs, so that you can open and close the door more easily.

First disassemble the leg cover and then adjust the level of the freezer/refrigerator.

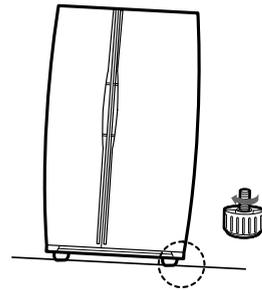
1

If your freezer/refrigerator tilts to the left, turn the left adjusting leg.



2

If your freezer/refrigerator tilts to the right, turn the right adjusting leg.



## EARTHING THE APPLIANCE



### WARNING

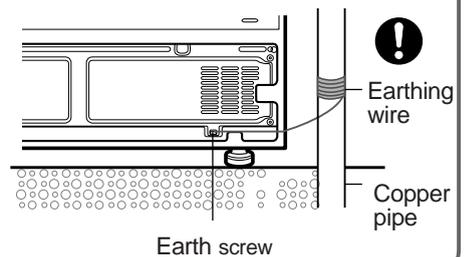
**The appliance must be earthed before use.**

You must earth the freezer/refrigerator to prevent any power leakage or electric shock caused by current leakage from the appliance.

- Never use gas pipes, telephone lines or other potential lightning rods as earths.

**If you are using a power plug that is not already earthed.**

- Connect one end of the earthing wire (yellow/green or green) to the earth screw and the other end to a steel or copper pipe, such as a water pipe.



# ADJUSTING THE CLEARANCE BETWEEN THE DOORS



## Adjusting the small step difference between doors.

If the door of freezer is lower than that of the refrigerator.



If the door of freezer is higher than that of the refrigerator.



Please open the doors and adjust the doors as follows:

- 1) Release the nut (①) on the lower hinge until the upper end of the bolt (②).



When you release the nut (①), use enclosed hex wrench (③) to turn the bolt (②) a little counter-clockwise to make the nut (①) loose with your fingers.

**NOTE**

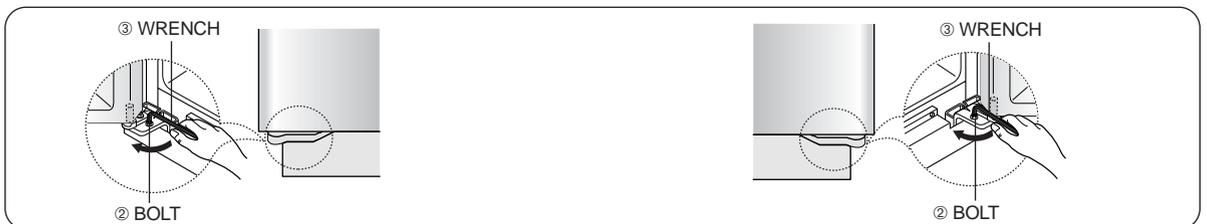


- 2) Please adjust the height difference between the doors turning the bolt (②) turn clockwise (↻) or counter clockwise (↺).



When you turn clockwise (↻), the door goes up.

**NOTE**



- 3) After adjusting the doors, turn the nut (①) turn clockwise (↻) until the lower end of the bolt, then tighten the bolt again with wrench (③) to fix the nut (①).



If you do not fix the nut (①) firmly, the bolt (②) may be released.

**NOTE**

# TROUBLESHOOTING

## **The freezer/refrigerator does not work at all or it does not chill sufficiently**

- Check that the power plug is properly connected.
- Check that the power plug fuse has not blown.
- Is the temperature control set to the proper temperature?
- Is the freezer/refrigerator in direct sunlight or located near a heat source?
- Is the back of the freezer/refrigerator too close to the wall?

## **The food in the refrigerator is frozen**

- Is the temperature control set to the proper temperature?
- Is the temperature in the room too low?
- Did you put food with a high water content near the coldest part of the refrigerator.

## **You can hear unusual noise or sounds**

- Check that the floor is level and stable.
- Is the back of the appliance too near to the wall?
- Has anything dropped behind or under the appliance?
- Is the noise from the compressor in the appliance?
- A “ticking” sound may be heard from inside the appliance, but this is normal. It is caused when the various accessories contract or expand.

## **The front corners and sides of the freezer / refrigerator are hot.**

- Heat pipes are installed in the front corners of the refrigerator to prevent condensation.
- Condensation can result from leaving the unit's door open for too long or storing unwrapped food with a high water content when outside temperature and humidity levels are high.

## **You can hear water babbling in the refrigerator**

- The babbling is caused by the refrigerant circulating in the unit.

## **There is a bad smell in the freezer/refrigerator**

- You did not wrap food with a strong smell properly, or you have left something in the refrigerator for too long.
- Always wrap food with a strong smell so that it is airtight. Always throw away food that has gone off.

## **Frost forms on the wall of the freezer**

- Is the air inlet/outlet blocked?
- Always allow sufficient space between the food items for air to circulate efficiently.
- Is the door closed properly?

## Ambient Room Temperature Limits

This appliance is designed to operate at the ambient temperatures specified by its temperature class marked on the rating plate.

Temperature Class	Symbol	Ambient Temperature	
		Maximum	Minimum
Extended Temperate	SN	32°C (90°F)	10°C (50°F)
Temperate	N	32°C (90°F)	16°C (61°F)
Subtropical	ST	38°C (100°F)	18°C (64°F)
Tropical	T	43°C (109°F)	18°C (64°F)

**NOTE:** The internal temperature may be affected by such factors as the location of the appliance, ambient temperature and the frequency with which you open the doors. Adjust the temperature as required to compensate for these factors.

### English



#### **Correct Disposal of This Product (Waste Electrical & Electronic Equipment)**

**(Applicable in the European Union and other European countries with separate collection systems)**

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.