SURROUND MULTI FLOW REFRIGERATOR

MTZ 521 NF / MTZ 522 NF
MTZ 551 NF / MTZ 552 NF



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Code:P446-1

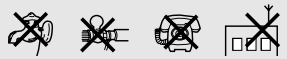
1. Installation Instructions

Suitable Installation Place

Where the floor is solid and level	Where ventilation is good	Where there is little or no heat, moisture
• Unstable installation causes vibration and noise of refrigerator. • Wooden floor or carpet can be discolored under the refrigerator. • Doors look hanged down due to the twist of refrigerator unless it is leveled.	• More than 10 cm from 3 sides (left, right and back) is good enough for ventilation. • Insufficient space causes the noise of vibration, weakening of refrigerating power and the waste of electricity.	• Direct sun lays, side heat of stove and gas range can weaken the refrigerating power. • Avoid a place by the faucet or sink with much moisture and where water can splash. Rust and corrosion, short-circuit are surely made. • Use hard board or plank on the concrete/cement floor.

Grounding

■ Grounding terminal is the green one connected to the power cord in the back of refrigerator.

Grounding is necessary where	water can splash easily ; bathroom etc.	there is much moisture ; basement etc.	any wet and/or watery places.
Grounding by using grounding wire	Bury copper plate to whitch grounding wire is connected 25 cm deep in the ground.		
Grounding by using short-circuit breaker	Short-circuit breaker is a must where the floor is always wet, for example, fish shop, restaurant kitchen etc.		
Grounding is not necessary	in case of using side-grounded outlet. 		
You should not connect the ground wire to	water pipe, gas pipe, telephone line, lightening-rod. There can be explosion or fire. 		

Correct usage of Refrigerator

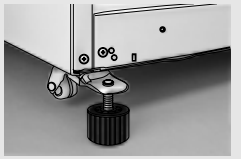
Plug in the refrigerator right after installation.	* See page 2 for details.
Set the both compartments' temperature to "3" to perform preparatory run for 2 or 3 hours. **When the inside is cold enough, put the foods in.**	* When the surrounding temperature is hot in midsummer, do not open and shut the doors too often after installation.

Installation Process

Attach the height adjustable legs to their holes in the left and right bottom of refrigerator.

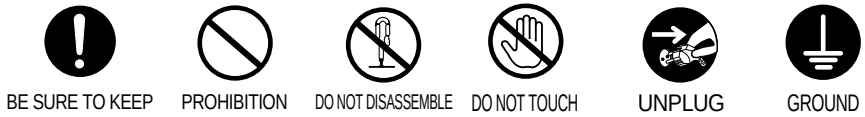
Adjust the height by turning the legs until they touch the floor.

• Let the right adjustable leg touch the floor firmly, while the left, smoothly.



2. Safety Instructions

⚠ WARNING	■ Improper use can cause physical damage - personal injury.
⚠ ATTENTION	■ Improper use can cause injury or material damage to the household



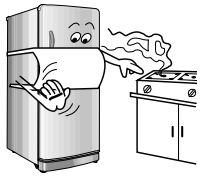
If the power cord of refrigerator is damaged, have it replaced by a repair shop by the manufacture, as special tools are required.
Allow 6 cm or more clearance between wall and side and rear plate of the refrigerator for good air circulation.

⚠ WARNING

VENTILATION

In case of gas leak, ventilate the room instead of unplugging the refrigerator.

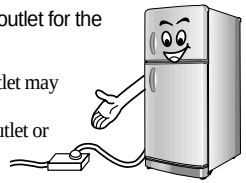
- Explosion or fire may happen.



EXCLUSIVE POWER OUTLET

Use exclusive power outlet for the refrigerator only.

- Several plugs in an outlet may cause fire.
  Do not use a double outlet or extension cord.



ATTENTION

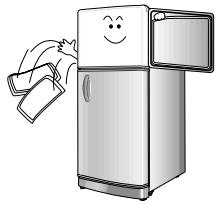
Do not eat any frozen food immediately from the freezer compartment.

- It can get you cold-burns.

DISCARDING

When discarding the refrigerator, remove the door packing.

- Children may be trapped inside it.



CLEAN PLUG

Unplug and clean it with dry cloth if dirty.

- Dusty and dirty plug may cause fire.



NO

Never install the refrigerator where there is much moisture and water can splash.

- It can be a danger of short circuit or fire.



NO

Do not put heavy things or water contained tanks on top of refrigerator.

- It's dangerous when they fall down and fire by short circuit can happen.

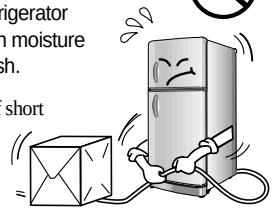


⚠ WARNING

NO

Never install the refrigerator where there is much moisture and water can splash.

- It can be a danger of short circuit or fire.



NO

Do not allow children to hang on the doors.

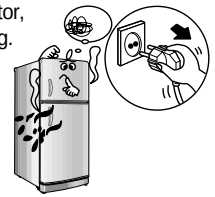
- The refrigerator may be tipped over to hurt children.



NEVER USE

When you smell something strange burning out of refrigerator, unplug it to stop running.

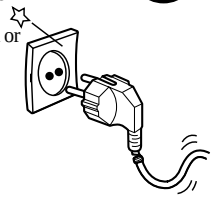
- It's very dangerous to keep the abnormal refrigerator running on and on.



NEVER USE

Never use plug if it is loose.

- There can be electric shock or fire by short circuit.



NEVER USE

Never use any spray near the refrigerator.

- It can cause danger of explosion.



NEVER EAT

Never eat deteriorated food stored too long in the refrigerator or in the out-of-order refrigerator.

- You can be food-poisoned.



NEVER STORE

This refrigerator is for storing only foods.

- Do not store medicines, flammable things, and study sample, etc.



NEVER DISASSEMBLE

Do not repair the refrigerator on your own.

- It can work abnormally and cause bigger trouble.



NEVER TOUCH

Do not use any sharp tools when cleaning the inside.

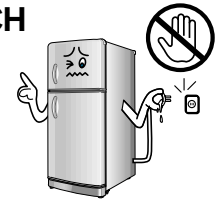
- The cooling system can be damaged or there may be electric shock.



NEVER TOUCH

Do not pull and/or push the plug with wet hand.

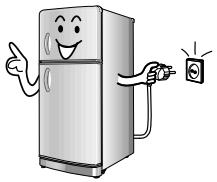
- There can be danger of electric shock.



⚠ WARNING

UNPLUG

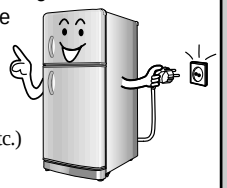
Unplug first when exchanging the bulb and/or cleaning the refrigerator.



UNPLUG

If not using refrigerator for a long time, unplug and take all the foods out.

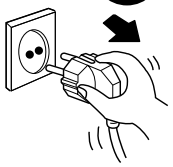
- In case of power failure, foods may decay and other accident (short circuit, fire etc.) can happen.



UNPLUG

Grip the whole plug body to pull when you unplug.

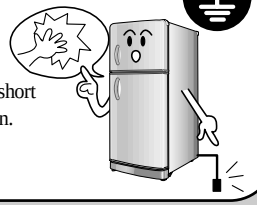
- Holding only the wire can cause electric spark or short circuit.



GROUNDING

Be sure to ground.

- There is a danger of electric shock due to short circuit or mal-function.



⚠ WARNING

MOVING/ CARRYING

When you move the refrigerator, take all the foods out and empty the ice box and evaporation dish of water.

- Foods may be damaged and you can slip on watery floor.



MOVING / CARRYING

Lift the refrigerator up enough not to scratch a soft floor.

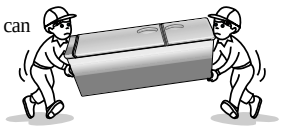
- Front and rear wheels under the refrigerator may scratch the floor.



MOVING/ CARRYING

Grip two handle bars front bottom and formed handle top back of refrigerator.

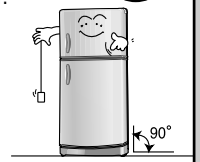
- Gripping other parts can be slippery and dangerous.



INSTALLATION

Place on a solid and level floor.

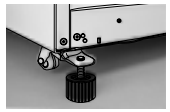
- Unstable installation causes distortion of cabinet and doors.



HEIGHT ADJUSTING FEET

When turning up the feet, lift the set a little.

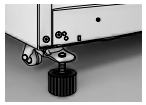
- It is hard to turn them up unless the set is lifted.



HEIGHT ADJUSTING FEET

When moving and carrying the set, turn the feet up.

- If the feet touch the floor, they can be broken or the floor may be scratched.



⚠ WARNING

DOOR HANDLES

Opening and shutting doors, hold door handles, not other part.

- Your fingers may be jammed to be hurt.



FOOD STORAGE

When you store foods in the pockets, push in to the pocket bottom.

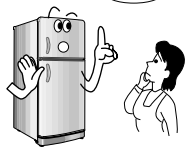
- Tall bottles may fall down or the pockets can be broken.



POWER FAILURE

In case of power failure, open and shut the doors as seldom as possible.

- Cold air comes out and fresh storage, impossible.



HAND OVER

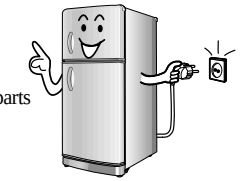
Handing over this refrigerator, you'd better give user's guide together to him/her.

- New user may not know well how to use this refrigerator.

DRIVE / RUN

After you unpluged refrigerator, wait 5 minutes or more to plug in again.

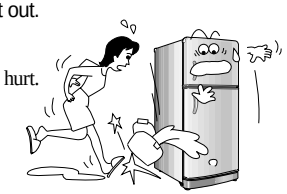
- If you plug in again immediately, electric parts can be damaged.



CAUTION

If there is water or oil on the floor around refrigerator, wipe it out.

- There is danger of slipping over to be hurt.



ATTENTION

Foods should not protrude from shelves.

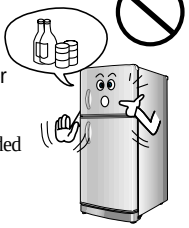
- They can fall down and/ or be broken when opening the door.



FORBIDDEN

Do not store bottles, cans or canned food in the freezer compartment.

- They can be broken or exploded by expansion of freezing.



DO NOT TOUCH

Do not touch cold surfaces of foods or food containers in the freezer compartment directly.

- They are in the state of like frozen metal, so skin can adhere to these cold surfaces. (Especially when your hands are wet and damp.)



DO NOT TOUCH

Do not reach out your hands or legs under the refrigerator (when cleaning under the refrigerator.

- You can be hurt by rough edges and parts under the refrigerator.

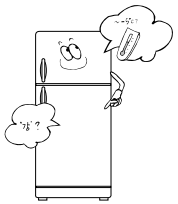


3. Troubleshooting Guide

■ Before calling for service, check the followings.

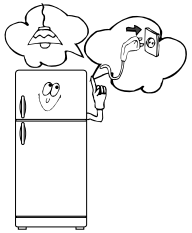
Foods freeze in the fresh food compartment

■ Has the temperature been on “3” continuously?
■ Is the temperature near refrigerator less than 5˚C?
■ Was moist foods such as vegetables placed just in front of the cold air duct?



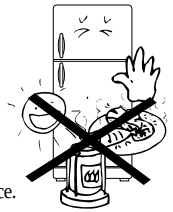
Refrigerator never get cold.

■ Is there no power failure?
■ Is the mains play firmly secure.



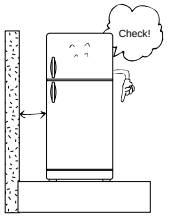
Refrigerator does not get cold enough.

■ Has the temperature been on “1” continuously? Set the temperature to “2”.
■ Has too hot food put in? Check food storage state.
■ Is the inside filled with too much food?
■ Is either door open or did you open and shut the doors too often?
■ Is there a gas range or a stove near the refrigerator? Is it in direct sun-light? Check the installation place.



Refrigerator is noisy.

■ Is the floor firm and level or the refrigerator levelled well ?
■ Is the back of refrigerator touching the wall ?



Moisture collects inside.	Water is flowing out when moving the refrigerator.	Something smells.
■ Check if either door is open. ■ Did you leave the doors open too long or is moist food put with its lid off ? Moisture disappears naturally if doors are closed, but it’s better to wipe it off with dry cloth.	■ Have you dried and emptied the evaporator dish?	■ Air ducts blocked with foods ? ■ Is strong odoring food stored unwrapped ? Check the food storage state. * The vegetable cases are closed, so deodorazing is almost impossible.

Refrigerator Is Not Wrong or Out of Order In These Cases...

Moisture is forming on cabinet surface !	• Moisture can be formed during the rainy season or through continuous hot and humid days. Wipe out the surface with dry cloth.
It sounds water-flowing in the refrigerator.	• The sound can be heard when the compressor stops. When refrigerant to cools down, the system can make such a sound.
Doors are not opened easily.	• Such case happens when you open the door right after closing it. Do not try to force the doors to open; wait about 30 seconds or so.
Front feels warm.	• Front part of cabinet may feel warm because of the hot-pipe to prevent the forming of moisture.
Cracking sound comes out of the inside.	• When the parts inside shrink and expand due to temperature change, such sound can be heard.
Freezer compartment door is opened and shut slightly.	• When you shut the fresh food compartment door quickly, the freezer compartment door is opened and shut slightly of itself. That’s because of the condensed air in the fresh food compartment run to the freezer compartment by closing the door.
Tiny frostwork forms inside of the fresh food compartment	• When the surroundings is hot and humid, if you open and shut the doors frequently such happens. When you store watery food unwrapped, such frostwork may form too. It’s all because of the moist in the air clung to the inside.



4. Interior Features

TEMPERATURE REGULATION LEVER OF FREEZER COMPARTMENT
- Used when you want to change temperature of freezer compartment.
- Set the lever to which you want to choose slide (MIN, MED, MAX, WINTER).

ANTI-MICROBE DEODORIZER
- Anti-Microbe deodorizers, permanent and no need to replace or repair, get rid of odor.

FRESH CASE
- Stores food at 0~1°C to keep it of its own natural taste and nutrient.
  ✻ Push the case backward completely, it could broken by door(pockets).

FRESH FOOD COMPARTMENT SHELF
- Provided to store day to day food.

HIGH HUMIDITY VEGETABLE CASE
- It keeps vegetables fresh at optimal humidity.
  ✻ Rails are installed for easy drawing.



FREEZER COMPARTMENT SHELF
- Provided to make ice or store frozen food.

FREEZER COMPARTMENT POCKETS
- Use when storing dried fish, dumpling skin, red pepper powder bean, pizza, spices etc.
- Do not store bottled drinks or foods that will be kept for so long.

FRESH FOOD COMPARTMENT POCKETS
EGG POCKET
- Storing eggs, cheese, etc.

BOTTLE POCKET
- Storing big bottled drinks, juice, etc.

MULTI-PURPOSE POCKET
- Storing short bottled food, packed drinks and spice containers, etc.

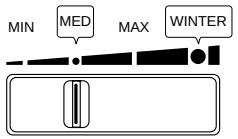
BOTTLE POCKET
- Storing beer bottles, little bottled drinks, etc.

FRONT COVER
- Don't let the children step on it for it can be broken.

5. TEMPERATURE CONTROLS

TEMPERATURE REGULATION OF FREEZER COMPARTMENT

1
- For ordinary use.
- Use when surround temperature is over 10°C.

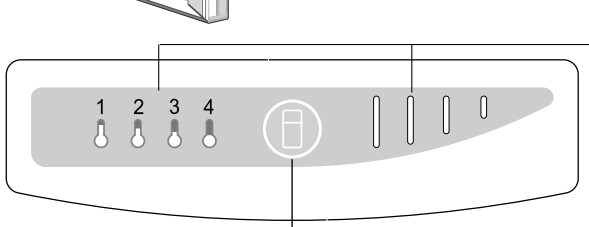


For ordinary use

2
- Use only in winter season when surround temperature is below 10°C.
- Do not use when surround temperature is over 10°C.



Winter



TEMPERATURE INDICATOR OF FRESH FOOD COMPARTMENT

TEMPERATURE REGULATION BUTTON OF FRESH FOOD COMPARTMENT

3

For the "4"(IN WINTER) Mode.
- Use only in winter season when surround temperature is below 10°C.

TEMPERATURE REGULATION OF FRESH FOOD COMPARTMENT

For the "Temperature Control" Button.
- Middle Mode ("1" and "2" light up) starts when the refrigerator is first plugged in.
- By pressing this button, indicators change from "1"(MIN) to "4"(WINTER).

6. Care & Cleaning

Before Cleaning

- When the outside(cabinet, doors) is stained with cooking oil or dirt, wipe it out quickly.
- To keep the inside sanitary without odor or dirt, regular cleaning required at least once a month.
- Spills of cooking oil, butter etc. can cause the parts of plastics to crack.

In Cleaning

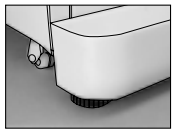
- Don't pour water to the refrigerator directly.
- Cleaning the inside, don't use chemical(alkaline) detergent, wax, gasoline, alcohol, benzen, thinner, hot(boiling) water, scrubber etc., cleaning the doors and cabinet, avoid solvent, abrasives, spray-on cleaners etc.
- Instead, use soft cloth with dish washer and clean up with water, dry with a soft cloth.

After Cleaning

- See to the followings after cleaning. If something's wrong, call for service.
- Is the power cord peeled?
- Is the plug hot unusually?
- Did you plug in the outlet firmly?

Front & Rear Rollers

- When cleaning the floor under refrigerator or the behind, shorten the hight adjusting feet until the front rollers touch the floor enough and move the refrigerator.
- After cleaning, level the refrigerator by turning the feet. (See 4 page).



EVAPORATION DISH

New evaporating system, no need to clean at ordinary use.

If it has to be cleaned due to strong odor at midsummer, see the following instruction.

1) Unplug the refrigerator.

2) Unscrew the cover below back of refrigerator and clean the dish.

3) After cleaning the dish, screw the cover and check if anything wrong.

* While cleaning, be careful not to be hurt by hot pipes, compressor etc. and not to breake system parts.

7. Helpful Hints

When you replace the light bulbs **Light bulb of freezer compartment**	1. Unplug the refrigerator. 2. Pull the light shield down forward, turn to take the bulb out. 3. Replace it with the same size and type of bulb.
Light bulb of fresh food compartment	1. Unplug the refrigerator. 2. Pull out the shelf. 3. Insert your finger into the groove under the light bulb and turn to take it out. 4. Replace it with the same size and type of bulb.

* Call the service center when you get the bulbs or too hard for you to replace it.

In case of power failure

- Do not open and shut the doors, if possible, then no problem storing the food 2~3 hours long even in the midsummer.
- In case of predicted power failure, do not store any more food and make as much ice as you can to put it on the upper shelf of fresh food compartment. The inside would be kept cold.



When not using for a long time

- Clean the inside and leave the doors open for 2~3 days in order to prevent mold development or odor saturation.



8. Efficient Storage of Foods

- Be sure to wrap foods - fish, meat, etc. - to be stored in the freezer compartment to avoid odor.

Keep foods clean !

- Wipe packed food, wash vegetable.



Cool down to room temperature !

- If hot food is put in immediately, the temperature inside rises up, keeping foods fresh impossible, resulting in waste of electricity.



Divide foods into one-time serving !

- Dividing food into one-time serving and storage makes it easy to take out, enhancing refrigerating power.



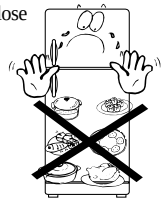
Wrap foods !

- Make sure to wrap foods such as Kimchi and fish in order to prevent drying and odor.



Do not fill the inside too much !

- Too much food will interfere with cold air circulation. Do not place watery food close to the cold air ducts.



Open and close doors quickly!

- Frequent opening and shutting doors causes loss of cold air, waste of electricity weakening of refrigerating power.

