

## BOWLAND MAIN ELECTRICAL APPLIANCES

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1. Microwave
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3. Hob
4. Extractor Hood
5. Fridge Freezer
6. Kettle
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9. Combi Grill and Convection Microwave  
Oven

## BOWLAND MAIN ELECTRICAL APPLIANCES

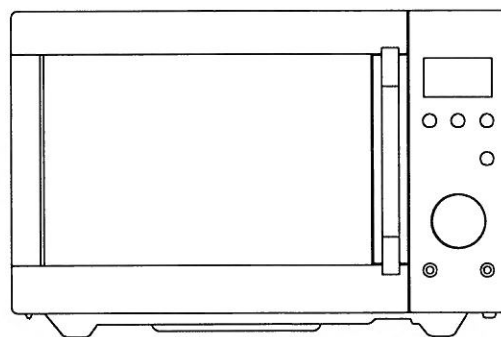
### 1. Microwave



# MICROWAVE OVEN

KOR-6N7RS

OPERATING INSTRUCTIONS  
& COOK BOOK



Helpline number: 0870 100 2525

Before operating this oven, please read these instructions completely.

## PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- (a) **Do not attempt to operate this oven with the door open** since open-door operation can result in harmful exposure to microwave energy. It is important not to defeat or tamper with the safety interlocks.
- (b) **Do not place any object** between the oven front face and the door or allow soil or cleaner residue to accumulate on sealing surfaces.
- (c) **WARNING** : If the door or door seals are damaged, the oven must not be operated until it has been repaired by a competent person : (1) door (bent), (2) hinges and latches(broken or loosened), (3) door seals and sealing surfaces.
- (d) **WARNING** : It is hazardous for anyone other than a competent person to carry out any service or repair operation which involves the removal of a cover which gives protection against exposure to microwave energy.
- (e) **WARNING** : Liquids or other foods must not be heated in sealed containers since they are liable to explode.
- (f) The appliance is not intended for use by young children or infirm person without supervision. Young children should be supervised to ensure that they do not play with the appliance.
- (g) **WARNING** : Only allow children to use the oven without supervision when adequate instructions have been given so that the child is able to use the oven in a safe way and understands the hazards of improper use.

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# IMPORTANT SAFETY INSTRUCTIONS

## READ CAREFULLY AND KEEP FOR FUTURE REFERENCE

When using electrical appliances, basic safety precautions should be followed, including the following:

**WARNING**-To reduce the risk of burns, electric shock, fire, injury to persons or exposure to excessive microwave energy:

1. Read all instructions before using the appliance.
2. Read and follow the specific "PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY" found on page 1.
3. This appliance must be grounded. Connect only to a properly grounded outlet.
4. Install or locate this appliance only in accordance with the provided installation instructions.
5. Some products such as whole eggs and sealed containers - for example, closed glass jars-are liable to explode and should not be heated in this oven.
6. Use this appliance only for its intended use as described in this manual. Do not use corrosive chemicals or vapors in this appliance. This type of oven is specifically designed to heat, cook, or dry food. It is not designed for industrial or laboratory use.
7. As with any appliance, close supervision is necessary when used by children.
8. Do not operate this appliance if it has a damaged cord or plug, if it is not working properly, or if it has been damaged or dropped.
9. This appliance should be serviced only by qualified service personnel. Contact your nearest authorized service facility for examination, repair or adjustment.
10. Do not cover or block any openings on the appliance.
11. Do not store this appliance outdoors. Do not use this product near water — for example, near a kitchen sink, in a wet basement, or near a swimming pool, or similar locations.
12. Do not immerse the cord or plug in water.
13. Keep the cord away from heated surfaces.
14. Do not let cord hang over edge of table or counter.
15. Either:
  - a) When cleaning surfaces of door and oven that comes together on closing the door, use only mild, non-abrasive soaps or detergents applied with a sponge or soft cloth , or
  - b) When separate cleaning instructions are provided, See door surface cleaning instructions on.
16. To reduce the risk of fire in the oven cavity:
  - a) Do not overcook food. Carefully attend the appliance when paper, plastic, or other com-bustible materials are placed inside the oven to facilitate cooking.
  - b) Remove wire twist-ties from paper or plastic bags before placing bag in the oven.
  - c) If materials inside the oven ignite, keep oven door closed, turn oven off, and disconnect the power cord, or shut off power at the fuse or circuit breaker panel.
- d) Do not use the cavity for storage purposes. Do not leave paper products, cooking utensils, or food in the cavity when not in use.
17. Do not use this microwave oven to heat corrosive chemicals (for example, sulfides and chlorides). Vapours from such corrosive chemicals may interact with the contact and springs of the safety interlock switches thereby rendering them inoperable.
18. Keep the waveguide cover clean at all times. Wipe the oven interior with a soft damp cloth after each use. If you leave grease or fat anywhere in the cavity it may overheat, smoke or even catch fire when next using the oven.
19. Never heat oil or fat for deep frying as you cannot control the temperature and doing so may lead to overheating and fire.
20. Liquids, such as water, coffee, or tea are able to be overheated beyond the boiling point without appearing to be boiling due to surface tension of the liquid. Visible bubbling or boiling when the container is removed from the microwave oven is not always present. **THIS COULD RESULT IN VERY HOT LIQUIDS SUDDENLY BOILING OVER WHEN A SPOON OR OTHER UTENSIL IS INSERTED INTO THE LIQUID.** To reduce the risk of injury to persons:
  - ① Do not overheat the liquid.
  - ② Stir the liquid both before and halfway through heating it
  - ③ Do not use straight-sided containers with narrow necks.
  - ④ After heating, allow the container to stand in the microwave oven for a short time before removing the container.
  - ⑤ Use extreme care when inserting a spoon or other utensil into the container.
21. The contents of feeding bottles and baby jars must be stirred or shaken and check the temperature before consumption to avoid burns.
22. The appliance must be positioned so that the plug is accessible.
23. This appliance is not intended for use by a person (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.
24. Children should be supervised to ensure that they do not play with the appliance.

## SAVE THESE INSTRUCTIONS

## General Use

Listed below are, as with all appliances, certain rules to follow and safeguards to assure top performance from this oven:

1. Do not use the oven for any reason other than food preparation, such as for drying clothes, paper, or any other nonfood items or for sterilizing purposes.  
They may catch on fire.
2. Do not use the oven when empty, this could damage the oven.
3. Do not use the oven cavity for any type of storage, such as papers, cookbook, cookware, etc.
4. Do not operate the oven without the turntable tray in place. Be sure it is properly sitting on the rotating base.
5. Be cautious when removing the turntable tray after cooking meats that may have caused an accumulation of grease in the tray.
6. Unlike microwave-only ovens, this oven may become hot on the cabinet and oven door.  
Always use hot pads or oven mitts when placing or removing food and/or accessories from the oven.  
Be cautious about touching parts other than the control panel during or immediately following grill or combination cooking.
7. If the oven is hot from combination cooking, do not then use plastic or Styrofoam cookware for microwave cooking. They may melt.
8. Do not use recycled paper products for cooking.  
They may contain impurities which could cause sparks and/or fires when used during cooking.
9. Do not continue to cook with metal utensils if sparking appears. See "Accessories" section on page 8 for proper use of cookware.
10. Do not leave the oven unattended during short cooking times. Overcooking and fire may result.
11. Do not cook any food surrounded by a membrane, such as egg yolks, potatoes, chicken livers, etc., without first piercing them several times with a fork.
12. Do not pop popcorn unless popped in a microwave approved popcorn popper or unless it's commercially packaged and recommended especially for microwave ovens. Microwave popped corn produces a lower yield than conventional popping; there will be a number of unpopped kernels. Do not use oil unless specified by the manufacturer.
13. Do not attempt to operate this appliance with the door open.
14. Do not attempt to remove covers, panels, etc.
15. Keep an eye on the oven from time to time when food is heated or cooked in disposable containers of plastic, paper or other combustible materials.
16. If smoke is observed, switch off or unplug the appliance and keep the door closed in order to stifle any flames.
17. Microwave heating of beverages can result in delayed eruptive boiling, therefore care must be taken when handling the container.
18. Make sure you remove caps or lids prior to cooking when you cook food sealed in bottles.
19. Do not put foreign material between the oven surface and door. It could result in excessive leakage of microwave energy.
20. Do not pop popcorn longer than the manufacturer's directions. (popping time is generally below 3 minutes). Longer cooking does not yield more popped corn, it can cause scorchings and fire.  
Also, the cooking tray can become too hot to handle or may break.
21. When heating food in plastic or paper containers, keep an eye on the oven due to the possibility of ignition.
22. Always test the temperature of food or drink which has been heated in a microwave oven before you give it to somebody, especially to children or elderly people. This is important because things which have been heated in a microwave oven carry on getting hotter even though the microwave oven cooking has stopped.
23. Eggs in their shell and whole hard-boiled eggs should not be heated in microwave ovens since they may explode, even after microwave heating has ended;
24. Keep the waveguide cover clean at all times. Wipe the oven interior with a soft damp cloth after each use. If you leave grease or fat anywhere in the cavity it may overheat, smoke or even catch fire when next using the oven.
25. Never heat oil or fat for deep frying as you cannot control the temperature and doing so may lead to overheating and fire.
26. During use the appliance becomes hot. Care should be taken to avoid touching heating elements inside the oven.
27. Do not use a steam cleaner in the oven.

# EARTHING INSTRUCTIONS

This appliance must be earthed. In the event of an electrical short circuit, earthing reduces the risk of electric shock by providing an escape wire for the electric current. This appliance is equipped with a cord having an earthing wire with a earthing plug. The plug must be plugged into an outlet that is properly installed and earthed.

**WARNING :** Improper use of the earthing plug can result in a risk of electric shock. Consult a qualified electrician or serviceman if the earthing instructions are not completely understood, or if doubt exists as to whether the appliance is properly earthed. If it is necessary to use an extension cord, use only a 3-wire extension cord that has a 3-blade earthing plug, and a 3-slot receptacle that will accept the plug on the appliance. The marked rating of the extension cord should be equal to or greater than the electrical rating of the appliance.

## INSTALLATION

### 1. Ventilation

Do not block air vents. If they are blocked during operation, the oven may overheat and eventually cause a failure. For proper ventilation, allow above 3 inches of space between oven sides, rear and the minimum height of free space necessary above the top surface of the oven is 150mm.

### 2. Steady, flat location

This oven should be set on a steady, flat surface. This oven is designed for counter top use only.

### 3. Leave space behind and side

All air vents should be kept a. If all vents are covered during operation, the oven may overheat and, eventually, fail.

### 4. Away from radio and TV sets

Poor television reception and radio interference may result if the oven is located close to a TV, Radio antenna, feeder and so on. Position the oven as far from them as possible.

### 5. Away from heating appliance and water taps

Keep the oven away from hot air, steam or Water splashes when choosing a place to position it, or the insulation might be adversely affected and breakdowns occur.

### 6. Power supply

- Check your local power source. This oven requires a current of approximately 6 amperes, 230V 50Hz.
- The power supply cord is about 0.8 meters long.
- The voltage used must be the same as specified on this oven. Using a higher voltage may result in a fire or other accident causing oven damage. Using a lower voltage will cause slow cooking. We are not responsible for damage resulting from use of this oven with a voltage or fuse amperage other than those specified.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

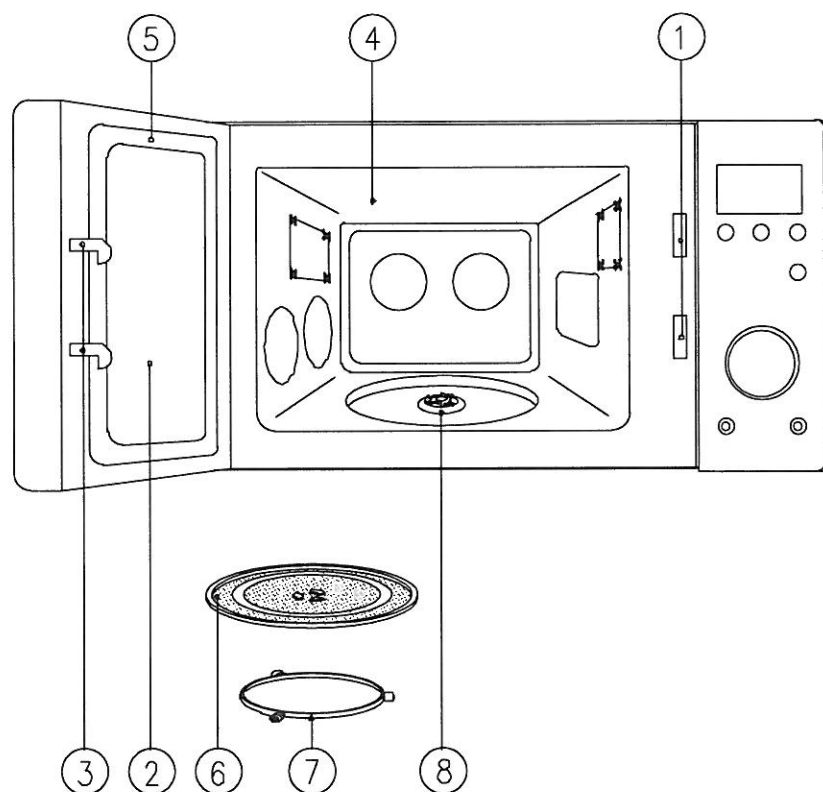
### 7. Examine the oven after unpacking for any damage such as:

A misaligned door, Broken door, A dent in cavity. If any of the above are visible, DO NOT INSTALL, and notify dealer immediately.

### 8. Do not operate the oven if it is colder than room temperature.

(This may occur during delivery in cold weather.) Allow the oven to become room temperature before operating.

## FEATURES DIAGRAM



**1. Safety interlock system**-Prevents the oven from operating while the door is opened. The oven will only operate with the door fully closed. When the door is open, the oven turns off and will only start again after the door is closed.

**2. Door screen**-Allows viewing of food. The screen is transparent to light, but prevents microwaves escaping.

**3. Door latch**-When the door is closed it will automatically shut off. If the door is opened while the oven is operating, the magnetron will automatically shut off.

**4. Oven cavity**

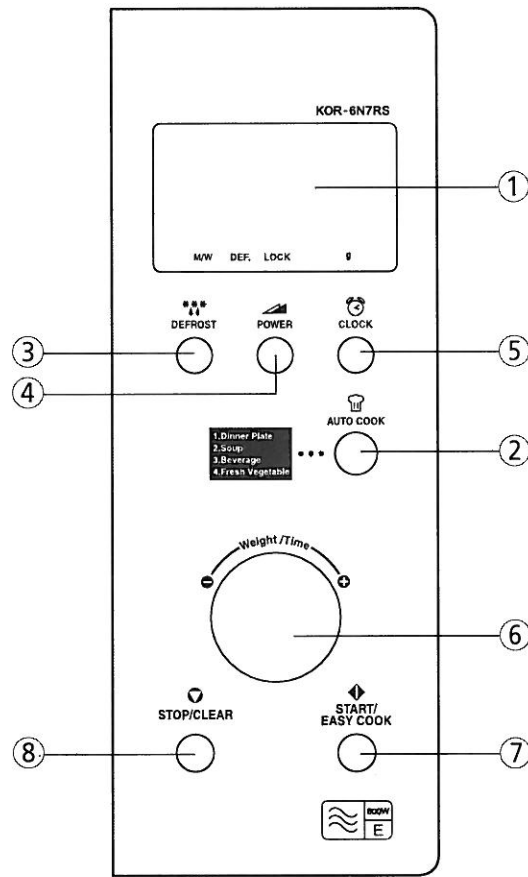
**5. Door seal**-The door seal surfaces prevent microwaves escaping from the oven cavity.

**6. Glass cooking tray**-Made of special heat resistant glass. The tray can be easily removed for cleaning. Make sure it is correctly positioned (indentation) before operating. Place food in a suitable container (dish) on the tray.

**7. Roller guide**-Supports the glass cooking tray.

**8. Coupler**-This fits over the shaft in the center of the oven's cavity floor. This is to remain in the oven for all cooking.

## FEATURES DIAGRAM ( continued )



**1. Display-** Cooking time, power level, indicators and present time are displayed.

**2. Auto cook-** Used to cook using a program or to reheat.

**3. Defrost-** Used to defrost foods by weight or time.

**4. Power-** Used to set power level.

**5. Clock-** Used to set clock.

**6. Dial knob-** Used to set the time and weight.

**7. Start/Easy cook-** Used to start the oven operation and also increase the reheat time by 30 seconds.

**8. Stop/Clear-** Used to stop the oven operation or to erase all entries.

## OPERATION PROCEDURE

This section includes useful information about oven operation.

1. Plug power supply cord into a 230V 50Hz power outlet.
2. After placing the food in a suitable container, open the oven door and put it on the glass tray.  
The glass tray and roller guide must always be in place during cooking.
3. Shut the door. Make sure that it is firmly closed.
- 1 The oven light is on only when the microwave oven is operating.
- 2 The oven door can be opened at any time during operation by touching the door release button on the control panel. The oven will automatically shut off.
- 3 Each time a button is touched, a BEEP will sound to acknowledge the touch.
- 4 The oven automatically cooks on full power unless set to a lower power level.
- 5 The display will show " : 0" when the oven is plugged in.
- 6 Time clock returns to the present time when the cooking time ends.
- 7 When the Stop/Clear button is touched during the oven operation, the oven stops cooking and all information retained. To erase all information(except the present time), touch the Stop/Clear button once more. If the oven door is opened during the oven operation, all information is retained.
- 8 If the Start button is touched and the oven does not operate, check the area between the door and door seal for obstructions and make sure the door is closed securely. The oven will not start cooking until the door is completely closed or the program has been reset.

Make sure the oven is properly installed and plugged into the electrical outlet.

## WATTAGE OUTPUT CHART

- The power-level is set by pressing the Power button. The chart shows the display, the power level and the percentage of power.

Touch Power button	Power level (Display)	Approximate Percentage of Power
once	P-HI	100%
twice	P-80	80%
3 times	P-60	60%
4 times	P-40	40%
5 times	P-20	20%

# CONTROLS

## SETTING THE CLOCK

When the oven is first plugged in, the display will flash “:0” and a tone will sound. If the AC power ever turns off, the display shows “:0” when the power comes back on.

Clock

1. Press Clock button.  
This is a 12 hour clock system.
2. Press Clock button once more.  
This is a 24 hour clock system.

**NOTE :** This oven has multiple clock systems. If you want 12 hour clock system, omit this step.

3. Turn the dial knob to adjust hour.

If you selected 12 hour system, the display will show the hours from “1” to “12”.  
If you selected 24 hour system, the display will show the hours from “0” to “23”.  
The adjusted hour starts blinking.

Clock

4. Press Clock button.

The minute stops blinking and “00” starts blinking.

The display will show the minutes from “0” to “59”.  
The adjusted minute starts blinking.

5. Turn the dial knob to adjust minute.

Clock

6. Press Clock button.

When you press Clock button, the minute stops blinking, and the colon starts blinking. If you selected 12 hour clock system, this digital clock allows you to set from 1:00 to 12:59. If you selected 24 hour clock system, this digital clock allows you to set from 0:00 to 23:59.

## WEIGHT DEFROSTING

WEIGHT DEFROST lets you easily defrost food by eliminating guesswork in determining defrosting time. The minimum weight for WEIGHT DEFROST is 200 gram and the maximum weight is 3,000 gram. Follow the steps below for easy defrosting.

Defrost

1. Press Defrost button.

The DEF. indicator & “0” appear and the g indicator starts blinking.

2. Turn the dial knob to adjust the defrosting weight.

The display will show what you selected.

Start

3. Press Start button.

When you press Start button, the g indicator disappears and the DEF. indicator starts blinking to show the oven is in the DEFROST mode. The display counts down the time to show you how much defrosting time is left in the DEFROST mode. The oven beeps during the defrosting cycle to signal that the food needs to be turned or rearranged. When the defrosting time ends, you will hear 3 beeps.

## TIME DEFROSTING

When TIME DEFROST is selected, the automatic cycle divides the defrosting time into periods of alternating defrost and stand times by cycling on and off.

**Defrost**

1. Press Defrost button.

The DEF. indicator & "0" appear and the g indicator starts blinking.

2. Press Defrost button once more.

The g indicator disappears and ":0" is displayed.

3. Turn the dial knob to adjust the defrosting time.

The display will show what you selected.

**NOTE:** Your oven can be programmed for 60 minutes 00 seconds. (60:00)

**Start**

4. Press Start button.

When you press Start button, the DEF. indicator starts blinking to show the oven is the DEFROST mode. The display counts down the time to show you how much defrosting time is left in the DEFROST mode. The oven beeps during the defrosting cycle to signal that the food needs to be turned or rearranged.

When the defrosting time ends, you will hear 3 beeps.

## COOKING IN ONE STAGE

Power

X 3

1. Press Power button.  
(Select the desired power level.)

The M/W indicator appears and the display will show what you selected.  
This example shows power level 6.

**NOTE:** If step 1 is omitted, the oven will cook at full power.

2. Turn the dial knob to adjust the cooking time.

The display will show what you selected.

**NOTE:** Your oven can be programmed for 60 minutes 00 seconds.(60:00)

Start

3. Press Start button.

When you press Start pad, the M/W indicator starts blinking to show the oven is cooking.  
The display counts down the time to show how much cooking time is left. When the cooking time ends, you will hear 3 beeps.

**NOTE:** Using lower power levels increases the cooking time which is recommended for foods such as cheese, milk and slow cooking of meats.

## COOKING IN TWO STAGES

All recipes require frozen foods to be defrosted fully before cooking.  
This oven can be programmed to automatically defrost foods before cooking.

Defrost

1. Press Defrost button.

The DEF. indicator & "0" appear and the g indicator starts blinking.

2. Turn the dial knob to adjust the defrosting weight.

The display will show what you selected.

Power

X 3

3. Press Power button.  
(Select the desired power level.)

The M/W indicator appears and the display will show what you selected.  
This example shows power level 6.

4. Turn the dial knob to adjust the cooking time.

The display will show what you selected.

Start

5. Press Start button.

When you press Start button, the DEF and M/W indicators come on to confirm the power levels selected. The DEF. indicator starts blinking to show you that the oven is in DEFROST mode. The display counts down the time remaining in DEFROST mode. When the oven beeps, turn over, break apart and/or redistribute the food. At the end of DEFROST mode, the oven will beep and start M/W cook. The DEF. indicator disappears and the M/W indicator starts blinking. The display counts down the time remaining in M/W mode. When M/W cook ends, you will hear 3 beeps.

## EASY COOKING

EASY COOK allows you to reheat for 30 seconds at 100% (full power) by simply pressing the Easy cook button.

By repeatedly pressing the Easy cook button, you can also extend reheating time to 5 minutes by 30 seconds.

### Easy cook

1. Press Easy cook button.

When you press Easy cook button, ":30" appears.  
After 1.5 seconds, the oven starts reheating.  
When the cooking time ends, you will hear 3 beeps.

## AUTO COOK

AUTO COOK allows you to cook or reheat many of your favorite foods by repeatedly touching Auto cook button.

### Auto cook

1. Press Auto cook button.

When you press AUTO COOK button once, "AC-1" is displayed. By repeatedly pressing this button, you can select one of the four menu programs as shown in the chart below.

2. Turn the DIAL KNOB to adjust the desired quantity.

The display will show what you selected.

Food	Press Autocook button	Display	Weight	Directions
Dinner Plate	once	AC-1	350g	Put foods on the microwave plate and cover with vented plastic wrap.
			450g	
Soup	twice	AC-2	350g	Pour soup in microwave bowl or mug.
			450g	Stir before serving.
Beverage	three times	AC-3	1 CUP (200ml)	Pour beverage in microwave mug and place it on the turntable. Do not cover. Stir before serving.
			2 CUPS (200mlx2)	
			3 CUPS (200mlx3)	
Fresh vegetable	four times	AC-4	200g	Wash and put in casserole. Add no water if vegetables have just been washed. Cover tender vegetables with lid and stir after cooking.
			400g	

### Start

3. Press Start button.

When you press Start button, the display changed into cooking time and the oven starts cooking.  
When the cooking time ends, you will hear 3 beeps.

## CHILD SAFETY LOCK

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SAFETY LOCK lock prevents unwanted oven operation such as by small children.

To set, press and hold Stop/Clear button for 3 seconds, Lock indicator appears and a beep sounds.

To cancel, press and hold Stop/Clear button for 3 seconds, Lock indicator disappears and a beep sounds.

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## TO STOP THE OVEN WHILE THE OVEN IS OPERATING

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1. Press Stop/Clear button.
  - You can restart the oven by pressing Start button.
  - Press Stop/Clear button once more to erase all instructions.
  - You must enter in new instructions.
2. Open the door.
  - You can restart the oven by closing the door and pressing Start button.

**NOTE:** Oven stops operating when door is opened.

## SPECIFICATIONS

POWER SUPPLY		230V AC 50Hz SINGLE PHASE WITH EARTHING
MICROWAVE	POWER CONSUMPTION	1200 W
	OUTPUT POWER	800 W
	FREQUENCY	2450 MHz
OUTSIDE DIMENSIONS (W X H X D)		465 X 279 X 360 mm
CAVITY DIMENSIONS (W X H X D)		290 X 220 X 306 mm
NET WEIGHT		APPROX. 12.2KG
TIMER		60 min. 00sec.
POWER LEVELS		5 LEVELS

*\* Specifications are subject to change without notice.*

## IMPORTANT

The wires in this mains lead fitted to this appliance are coloured in accordance with the following code.

Green-and-yellow : Earth  
 Blue : Neutral  
 Brown : Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: the wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked with the letter 'E', the earth symbol or coloured green-and-yellow. The wire which is coloured blue must be connected to the terminal which is marked with the letter 'N' or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter 'L' or coloured red.

**WARNING:** This appliance must be earthed.

## CARE AND CLEANING

Although your oven is provided with safety features, it is important to observe the following:

1. It is important not to defeat or tamper with safety interlocks.
2. Do not place any object between the oven front face and the door or allow residue to accumulate on sealing surfaces. Wipe the sealing area frequently with a mild detergent, rinse and dry. Never use abrasive powders or pads.
3. When opened, the door must not be subjected to strain, for example, a child hanging on an opened door or any load could cause the oven to fall forward to cause injury and also damage to the door. Do not operate the oven if it is damaged, until it has been repaired by a competent service technician. It is particularly important that the oven closes properly and that there is no damage to the:
  - i) Door(bent)
  - ii) Hinges and Hooks(broken or loosened)
  - iii) Door seals and sealing surfaces.
4. The oven should not be adjusted or repaired by anyone except a properly competent service technician.
5. The oven should be cleaned regularly and any food deposits removed;
6. Failure to maintain the oven in a clean condition could lead to deterioration of the surface that could adversely affect the life of the appliance and possibly result in a hazardous situation.

## DISPOSAL OF USED ELECTRICAL & ELECTRONIC EQUIPMENT



The meaning of the symbol on the product, its accessory or packaging indicates that this product shall not be treated as household waste. Please, dispose of this equipment at your applicable collection point for the recycling of electrical & electronic equipments waste. In the European Union and Other European countries there are separate collection systems for used electrical and electronic product. By ensuring the correct disposal of this product, you will help prevent potentially hazardous damage to the environment and to human health, which could otherwise be caused by unsuitable waste handling of this product. The recycling of materials will help conserve natural resources. Please do not therefore dispose of your old electrical and electronic equipment with your household waste. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

## BEFORE CALLING FOR SERVICE

You can often correct operating problems yourself. If your microwave/grill oven fails to work properly, locate the operating problem in the chart below and try the solutions marked for each problems.

If the microwave/grill oven still does not work properly, contact the nearest Service Centre.

### Note:

It is quite normal for steam to be emitted around the door during the cooking cycle. The door is not intended to seal the oven cavity completely but its special design contributes to the complete safety of the appliance.

### Caution:

1. Do not attempt to operate the oven while empty as this will cause damage.
2. As an exhaust is located in the rear of the oven, install the oven so as not to block the outlet.  
If the microwave/grill oven still does not work properly, contact the nearest Service Centre.

### PROBLEM

Oven will not start	X	X	X	X									
Arcing or sparking					X	X							
Unevenly cooked foods					X		X	X	X				
Overcooked foods										X			
Undercooked foods					X				X	X	X		
Improper defrosting					X		X	X		X		X	

### SOLUTION

Is start button pressed? —

Is power cord plugged in? —

Is door closed? —

Set the cooking time. —

Use approved cookware only. —

Do not operate with oven empty. —

Supplied tray must be used. —

Turn or stir food. —

Completely defrost food. —

Turn correct dial knob / Press correct Function buttons —

Check to see that oven ventilation parts are not blocked. —

Do "manual cooling" over 10 minutes. —

# COOKING INSTRUCTIONS

Only use utensils that are suitable for use in microwave ovens.

To cook food in the microwave oven, the microwaves must be able to penetrate the food, without being reflected or absorbed by the dish used.

Care must therefore be taken choosing the utensil. If the utensil is marked microwave-safe, you do not need to worry.

The following table lists various utensil and indicates whether and how they should be used in a microwave oven.

Utensil	Safe	Comments
<b>Aluminium foil</b>	▲	Can be used in small quantities to protect areas against overcooking. Arcing can occur if the foil is too close to the oven wall or if too much foil is used.
<b>Crust plate</b>	●	Do not preheat for more than 8minutes.
<b>China and earthenware</b>	●	Porcelain, pottery, glazed earthenware and bone china are usually suitable, unless deco-rated with a metal trim.
<b>Disposable polyester cardboard dishes</b>	●	Some frozen foods are packaged in these dishes.
<b>Fast-food packaging</b> • Polystyrene cups containers	●	Can be used to warm food. Overheating may cause the polystyrene to melt.
• Paper bags or newspaper	X	May catch fire.
• Recycled paper or metal trims	X	May cause arcing.
<b>Glassware</b> • Oven-to-table ware	●	Can be used, unless decorated with a metal trim.
• Fine glassware	●	Can be used to warm foods or liquids.
• Glass jars	●	Delicate glass may break or crack if heated suddenly. Must remove the lid. Suitable for warming only.
<b>Metal</b> • Dishes	X	May cause arcing or fire.
• Freezer bag twist ties	X	
<b>Paper</b> • Plates, cups, napkins and Kitchen paper	●	For short cooking times and warming. Also to absorb excess moisture.
• Recycled paper	X	May cause arcing.
<b>Plastic</b> • Containers	●	Particularly if heat-resistant thermoplastic. Some other plastics may warp or discolour at high temperatures. Do not use Melamine plastic.
• Cling film	●	Can be used to retain moisture. Should not touch the food. Take care when removing the film as hot steam will escape.
• Freezer bags	▲	Only if boilable or oven-proof. Should not be airtight. Prick with a fork, if necessary.
<b>Wax or grease-proof paper</b>	●	Can be used to retain moisture and prevent spattering.

● : Recommended use

▲ : Limited Use

X : Not Recommended

## ARCING

*If you see arcing, press the the **STOP/CLEAR** button and correct the problem.*

Arcing is the microwave term for sparks in the oven.

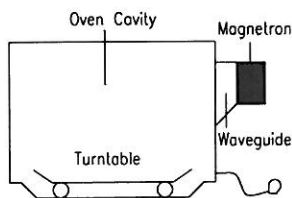
Arcing is caused by:

- Metal or foil touching the side of the oven.
- Foil not molded to food (upturned edges act like antennas).
- Metal, such as twist-ties, poultry pins, or gold rimmed dishes, in the microwave.
- Recycled paper towels containing small metal pieces being used in the microwave.

## MICROWAVING PRINCIPLES

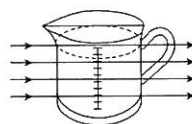
Microwave energy has been used in this country to cook and reheat food since early experiments with RADAR in World War II. Microwaves are present in the atmosphere all the time, both naturally and from manmade sources. Manmade sources include radar, radio, television, telecommunication links and car phones.

## HOW MICROWAVES COOK FOOD



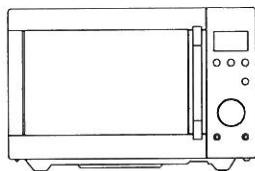
In a microwave oven, electricity is converted into microwaves by the **MAGNETRON**.

### ► TRANSMISSION



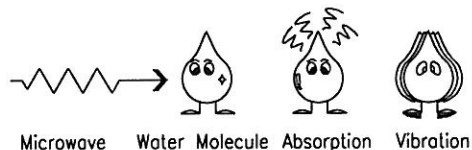
Then they pass through the cooking containers to be absorbed by the water molecules in the food, all foods contain water to a more or lesser extent.

### ► REFLECTION



The microwaves bounce off the metal walls and the metal door screen.

### ► ABSORPTION



The microwaves cause the water molecules to vibrate which causes **FRICTION**, i.e. **HEAT**. This heat then cooks the food. Microwaves are also attracted to fat and sugar particles, and foods high in these will cook more quickly. Microwaves can only penetrate to a depth of 1½ - 2 inches (4-5cm) and as heat spreads through the food by conduction, just as in a traditional oven, the food cooks from the outside inwards.

## CONVERSION CHARTS

WEIGHT MEASURES		VOLUME MEASURES		SPOON MEASURES	
15 g	½ oz.	30 ml	1 fl.oz.	1.25 ml	¼ tsp
25 g	1 oz.	100 ml	3 fl.oz.	2.5 ml	½ tsp
50 g	2 oz.	150 ml	5 fl.oz. (¼ pt)	5 ml	1 tsp
100 g	4 oz.	300 ml	10 fl.oz. (½ pt)	15 ml	1 tbsp
175 g	6 oz.	600 ml	20 fl.oz. (1 pt)		
225 g	8 oz.				
450 g	1 lb.				

FLUID MEASUREMENTS		
1 Cup	= 8 fl.oz.	= 240 ml
1 Pint	= 16 fl.oz. (UK 20 fl.oz.)	= 480 ml (UK 560 ml)
1 Quart	= 32 fl.oz. (UK 40 fl.oz.)	= 960 ml (UK 1120 ml)
1 Gallon	= 128 fl.oz. (UK 160 fl.oz.)	= 3840 ml (UK 4500 ml)

# COOKING TECHNIQUES

## STANDING TIME

Dense foods e.g. meat, jacket potatoes and cakes, require standing time(inside or outside of the oven) after cooking, to allow heat to finish conducting to cook the centre completely. Wrap meat joints and jacket potatoes in aluminium foil while standing. Meat joints need approx. 10-15 minutes, jacket potatoes 5 minutes. Other foods such as plated meal, vegetables, fish etc require 2-5 minutes standing. After defrosting food, standing time should also be allowed. If food is not cooked after standing time, return to the oven and cook for additional time.

## MOISTURE CONTENT

Many fresh foods e.g. vegetables and fruit, vary in their moisture content throughout the season, particularly jacket potatoes. For this reason cooking times may have to be adjusted. Dry ingredients e.g. rice, pasta, can dry out during storage so cooking times may differ.

## DENSITY

Porous airy foods heat more quickly than dense heavy foods.

## CLING FILM

Cling film helps keep the food moist and the trapped steam assists in speeding up cooking times. Pierce before cooking to allow excess steam to escape. Always take care when removing cling film from a dish as the build-up of steam will be very hot.

## SHAPE

Even shapes cook evenly. Food cooks better by microwave when in a round container rather than square.

## SPACING

Foods cook more quickly and evenly if spaced apart. NEVER pile foods on top of each other.

## STARTING TEMPERATURE

The colder the food, the longer it takes to heat up. Food from a fridge takes longer to reheat than food at room temperature.

## LIQUIDS

All liquids must be stirred before and during heating. Water especially must be stirred before and during heating, to avoid eruption. Do not heat liquids that have previously been boiled. DO NOT OVERHEAT.

## TURNING & STIRRING

Some foods require stirring during cooking. Meat and poultry should be turned after half the cooking time.

## ARRANGING

Individual foods e.g. chicken portions or chops, should be placed on a dish so that the thicker parts are towards the outside.

## QUANTITY

Small quantities cook faster than large quantities, also small meals will reheat more quickly than large portions.

## PIERCING

The skin or membrane on some foods will cause steam to build up during cooking. These foods must be pierced or a strip of skin should be peeled off before cooking to allow the steam to escape. Eggs, potatoes, apples, sausages etc, will all need to be pierced before cooking. DO NOT ATTEMPT TO BOIL EGGS IN THEIR SHELLS.

## COVERING

Cover foods with microwave cling film or a lid. Cover fish, vegetables, casseroles, soups. Do not cover cakes, sauces, jacket potatoes or pastry items.

## DEFROSTING GUIDE

- Do not defrost covered meat. Covering might allow cooking to take place. Always remove outer wrap and tray. Use only containers that are microwave-safe.
  - Begin defrosting whole poultry breast-side- down. Begin defrosting roasts fat-side-down.
  - The shape of the package alters the defrosting time. Shallow rectangular shapes defrost more quickly than a deep block.
  - After 1/3 of the defrost time has elapsed, check the food. You may wish to turn over, break apart, rearrange or remove thawed portions of the food.
  - During defrost, the oven will prompt you to turn the food over. At this point, open the oven door and check the food. Follow the techniques listed below for optimum defrost results.  
Then, close the oven door, touch the START pad to complete defrosting.
  - When defrosted, food should be cool, but softened in all areas. If still slightly icy, return to microwave oven very briefly, or let stand a few minutes. After defrosting, allow food to stand 5-60 minutes if there are any icy areas.  
Poultry and fish may be placed under running cool water until defrosted
- ⇒ **Turn over** : Roast, ribs, whole poultry, turkey breasts, hot dogs, sausages, steaks, or chops.
- ⇒ **Rearrange** : Break apart or separate steaks, chops, hamburgers, ground meat, chicken or seafood pieces, chunks of meat such as stewing beef.
- ⇒ **Shield** : Use small strips of aluminum foil to protect thin areas or edges of unevenly shaped foods such as chicken wings. To prevent arcing, do not allow foil to come within 1-inch of oven walls or door.
- ⇒ **Remove** : To prevent cooking, thawed portions should be removed from the oven at this point. May be shorter defrost time for food weighing less than 3 lbs.(1350g).

## DEFROSTING CHART

Item and Weight	Defrosting Time	Standing Time	Special Techniques
<b>BEEF</b> Minced beef 1 lb./454g	10-12 min.	15-20 min.	Break apart and remove thawed portions with fork.
Stewing Meat 1½ lbs./675g	9-11 min.	25-30 min.	Separate and rearrange once.
Loin Roast 2 lbs./900g	15-18 min.	45-60 min.	Turn over after half the time. Shield as needed.
Hamburgers 4 (4 oz./110g)	7-8 min.	15-20 min.	Turn over after half the time.
<b>LAMB</b> Loin Roast 2 lbs./900g	15-16 min.	45-60 min.	Turn over after half the time. Shield as needed.
Spareibs 1 lb. 450g	6-7 min.	25-30 min.	Separate and rearrange once.
Chops 4 (5 oz./125g)	7-8 min.	25-30 min.	Separate and turn over once.
Minced 1lb./450g	9-10 min.	15-20 min.	Break apart and remove thawed portions with fork.
<b>POULTRY</b> Whole Chicken 2½ lbs./1125g	20-22 min.	45-90 min.	Break side down. Turn over after half the time. Shield as needed.
Chicken Breasts 1lb./450g	9-10 min.	15-30 min.	Separate and rearrange once.
Fried Chicken(cut up) 2lbs./900g	12-14 min.	25-30 min.	Separate and rearrange once.
Chicken Thighs 1½ lbs./675g	12-14 min.	15-30 min.	Separate and rearrange once.
<b>FISH &amp; SEAFOOD</b> Whole Fish 1lb./450g	6-7 min.	15-20 min.	Turn over after half the time. Shield as needed.
Fish Fillets 1½ lb./675g	7-8 min.	15-20 min.	Separate and turn over once.
Shrimp ½ lb./225g	3-4 min.	10-15 min.	Separate and rearrange once.

\* The times are approximate because freezer temperatures vary.