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DE68-04328C-00



# **Microwave Oven**

# **User manual**

MS23J5133A\*

Please be advised that the Samsung warranty does NOT cover service calls to explain product operation, correct improper installation, or perform normal cleaning or maintenance.





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# Using this user manual

You have just purchased a SAMSUNG microwave oven. Your Owner's Instructions contains valuable information on cooking with your microwave oven:

- Safety precautions
- Suitable accessories and cookware
- Useful cooking tips
- Cooking tips

### The following symbols are used in this User Manual:

#### **A** WARNING

Hazards or unsafe practices that may result in **severe personal injury or death**.

#### **∴** CAUTION

Hazards or unsafe practices that may result in **minor personal injury or property damage**.

### ■ NOTE

Useful tips, recommendations, or information that helps users manipulate the product.

4 English \_



# Safety instructions

#### IMPORTANT SAFETY INSTRUCTIONS

READ CAREFULLY AND KEEP FOR FUTURE REFERENCE.

MAKE SURE THAT THESE SAFETY PRECAUTIONS ARE OBEYED AT ALL TIMES.

BEFORE USING THE OVEN, CONFIRM THAT THE FOLLOWING INSTRUCTIONS ARE FOLLOWED.

### Microwave function only

**WARNING**: If the door or door seals are damaged, the oven must not be operated until it has been repaired by a competent person.

**WARNING**: It is hazardous for anyone other than a competent person to carry out any service or repair operation that involves the removal of a cover which gives protection against exposure to microwave energy.

**WARNING**: Liquids and other foods must not be heated in sealed containers since they are liable to explode.

This appliance is intended to be used in household only and it is not intended to be used such as:

- staff kitchen areas in shops, offices and other working environments;
- farm houses;
- by clients in hotels, motels and other residential environments;
- bed and breakfast type environments.

**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.









# Safety instructions

**WARNING**: This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children unless they are aged from 8 years and above and supervised.

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

When heating food in plastic or paper containers, keep an eye on the oven due to the possibility of ignition.

The microwave oven is intended for heating food and beverages. Drying of food or clothing and heating of warming pads, slippers, sponges, damp cloth and similar may lead to risk of injury, ignition or fire

If smoke is emitted (observed), switch off or unplug the appliance and keep the door closed in order to stifle any flames.

**WARNING**: Microwave heating of beverages can result in delayed eruptive boiling, therefore care must be taken when handling the container.

**WARNING**: The contents of feeding bottles and baby food jars shall be stirred or shaken and the temperature checked before consumption, in order to avoid burns.

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.

The oven should be cleaned regularly and any food deposits removed.

6 English		



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.

The appliance is not intended for installing in road vehicles, caravans and similar vehicles etc.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

The appliance should not be cleaned with a water jet.

This oven should be positioned proper direction and height permitting easy access to cavity and control area.

Before using the your oven first time, oven should be operated with the water during 10 minute and then used.

If the oven generates a strange noise, a burning smell, or smoke is emitted, unplug the power plug immediately and contact your nearest service center.

The microwave oven has to be positioned so that plug is accessible.

The microwave oven is intended to be used on the counter top (freestanding) use only, the microwave oven shall not be placed in a cabinet.

English 7







# Safety instructions

### Oven function only - Optional

**WARNING**: When the appliance is operated in the combination mode, children should only use the oven under adult supervision due to the temperatures generated.

During use the appliance becomes hot. Care should be taken to avoid touching heating elements inside the oven.

**WARNING**: Accessible parts may become hot during use. Young children should be kept away.

A steam cleaner is not to be used.

**WARNING**: Ensure that the appliance is switched off before replacing the lamp to avoid the possibility of electric shock.

Do not use harsh abrasive cleaners or sharp metal scrapers to clean the oven door glass since they can scratch the surface, which may result in shattering of the glass.

**WARNING**: The appliance and its accessible parts become hot during use.

Care should be taken to avoid touching heating elements.

Children less than 8 years of age shall be kept away unless continuously supervised.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

8 English \_\_\_\_\_



The temperature of accessible surfaces may be high when the appliance is operating.

The door or the outer surface may get hot when the appliance is operating.

Keep the appliance and its cord out of reach of children less than 8 years.

Appliances are not intended to be operated by means of an external timer or separate remote-control system.

#### General safety

#### **WARNING**

Only qualified staff should be allowed to modify or repair the appliance.

Do not heat liquids and other food in sealed containers for microwave function.

For your safety, do not use high-pressure water cleaners or steam jet cleaners.

Do not install this appliance; near heater, inflammable material; in a humid, oily or dusty location, in a location exposed to direct sunlight and water or where gas may leak; on un level ground.

This appliance must be properly grounded in accordance with local and national codes.

Remove all foreign substances such as dust or water from the power plug terminals and contact points using a dry cloth on a regular basis.

Do not pull or excessively bend or place heavy objecton the power cord.

In the event of a gas leak (such as propane gas, LP gas, etc.), ventilate immediately without touching the power plug.

Do not touch the power plug with wet hands.

Do not turn the appliance off by unplugging the power plug while an operation is in progress.

Do not insert fingers or foreign substances, If any foreign substance such as water has entered the appliance, unplug the power plug and contact your nearest service centre.

Do not apply excessive pressure or impact to the appliance.







# Safety instructions

Do not place the oven over a fragile object such as a sink or glass object.

Do not use benzene, thinner, alcohol, steam cleaner or high pressure cleaner to clean the appliance.

Ensure that the power voltage, frequency and current are the same as those of the product specifications.

Plug the power plug into the wall socket firmly. Do not use a multiple plug adapter, an extension cord or an electric transformer.

Do not hook the power cord on a metal object, insert the power cord between the objects or behind the oven.

Do not use a damaged power plug, damaged power cord or loose wall socket. When the power plug or power cord is damaged, contact your nearest service centre.

Do not pour or directly spray water onto the oven.

Do not place objects on the oven, inside or on the door of the oven.

Do not spray volatile material such as insecticide onto the surface of the oven.

Do not store flammable materials in the oven. Take special care when heating dishes or drinks that contain alcohol as alcohol vapours may contact a hot part of the oven.

Keep children away from the door when opening or closing it as they may bump themselves on the door or catch their fingers in the door.

**WARNING**: Microwave heating of beverages can result in delayed eruptive boiling, therefore care must be taken when handling the container; To prevent this situation ALWAYS allow a standing time of at least 20 seconds after the oven has been switched off so that the temperature can equalize. Stir during heating, if necessary, and ALWAYS stir after heating.

In the event of scalding, follow these FIRST AID instructions:

- Immerse the scalded area in cold water for at least 10 minutes.
- Cover with a clean, dry dressing.
- Do not apply any creams, oils or lotions.

Do not put the tray or rack in water shortly after cooking because it may cause breakage or damage of the tray or rack.

Do not operate the microwave oven for deep fat frying because the oil temperature cannot be controlled. This could result in a sudden boil over of the hot liquid.

10 English \_\_\_\_\_





#### **CAUTION**

Only use utensils that are suitable for use in microwave ovens; DO NOT use any metallic containers, Dinnerware with gold or silver trimmings, Skewers, forks, etc.

Remove wire twist ties from paper or plastic bags.

Reason: Electric arcing or sparking may occur and may damage the oven.

Do not use your microwave oven to dry papers or clothes.

Use shorter times for smaller amounts of food to prevent overheating and burning food.

Do not immerse the power cable or power plug in water and keep the power cable away from heat.

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; Also do not heat airtight or vacuum-sealed bottles, jars, containers, nuts inshells, tomatoes etc.

Do not cover the ventilation slots with cloth or paper. They may catch fire as hot air escapes from the oven. The oven may also overheat and switch itself off automatically, and will remain off until it cools sufficiently.

Always use oven mitts when removing a dish from the oven to avoid unintentional burns.

Stir liquids halfway during heating or after heating ends and allow the liquid stand at least 20 seconds after heating to prevent eruptive boiling.

Stand at arms length from the oven when opening the door to avoid getting scalded by escaping hot air or steam.

Do not operate the microwave oven when it is empty. The microwave oven will automatically shut down for 30 minutes for safety purposes. We recommend placing a glass of water inside the oven at all times to absorb microwave energy in case the microwave oven is started accidentally.

Install the oven in compliance with the clearances stated in this manual. (See installing your microwave oven.)

Take care when connecting other electrical appliances to sockets near the oven.











# Safety instructions

# Precautions to avoid possible exposure to excessive microwave energy. (Microwave function only)

Failure to observe the following safety precautions may result in harmful exposure to microwave energy.

- **A.** Under no circumstances should any attempt be made to operate the oven with the door open or to tamper with the safety interlocks (door latches) or to insert anything into the safety interlock holes.
- **B.** Do NOT place any object between the oven door and front face or allow food or cleaner residues to accumulate on sealing surfaces. Ensure that the door and door sealing surfaces are kept clean by wiping after use first with a damp cloth and then with a soft dry cloth.
- **C.** Do NOT operate the oven if it is damaged until it has been repaired by a qualified microwave service technician trained by the manufacturer. It is particularly important that the oven door closes properly and that there is no damage to the:
  - 1) door (bent)
  - **2)** door hinges (broken or loose)
  - **3)** door seals and sealing surfaces
- **D.** The oven should not be adjusted or repaired by anyone other than a properly qualified microwave service technician trained by the manufacturer.

Samsung will charge a repair fee for replacing an accessory or repairing a cosmetic defect if the damage to the unit and/or damage to or loss of the accessory was caused by the customer. Items this stipulation covers include:

- **A.** A dented, scratched, or broken door, handle, out-panel, or control panel.
- **B.** A broken or missing tray, guide roller, coupler, or wire rack.
- Use this appliance only for its intended purpose as described in this instruction manual. Warnings and Important Safety Instructions in this manual do not cover all possible conditions and situations that may occur. It is your responsibility to use common sense, caution, and care when installing, maintaining, and operating your appliance.
- Because these following operating instructions cover various models, the characteristics of your microwave oven may differ slightly from those described in this manual and not all warning signs may be applicable. If you have any questions or concerns, contact your nearest service centre or find help and information online at www.samsung.com.
- This microwave oven is supposed for heating food. It is intended for domestic home-use
  only. Do not heat any type of textiles or cushions filled with grains, which could cause
  burns and fire. The manufacturer cannot be held liable for damage caused by improper or
  incorrect use of the appliance.
- 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 possible result in a hazardous situation.

12 English			
12 English			





# Correct disposal of this product (waste electrical & electronic equipment)



#### (Applicable in countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them 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 these items for environmentally safe recycling.

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

#### **INSTALLATION & WIRING INSTRUCTIONS**

#### **IMPORTANT NOTE:**

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse.

The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BS1363 of the same rating must be used.

Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug.

Replacement covers are available from your Dealer. If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your Dealer for assistance. However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug. Do not connect the plug to a mains socket, as there is a risk of shock hazard from the bared flexible cord.

Enalish 13







# Safety instructions

#### WIRING INSTRUCTIONS

#### WARNING THIS APPLIANCE MUST BE EARTHED.

This appliance must be earthed. In the event of an electrical short circuit, earthing reduces the risk of electric shock providing an escape wire for the electric current. The appliance is equipped with a mains lead which includes an earth wire for connecting to the earth terminal of your mains plug. The plug must be plugged into a socket that is properly installed and earthed.

**IMPORTANT**: The wires in this mains lead are coloured in accordance with the following code:

• Green and yellow: Earth

Blue : NeutralBrown : Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings indentifying the terminals in your plug, proceed as follows.

Connect the green and yellow wire to the terminal in the plug marked with the letter E or the earth symbol  $(\frac{1}{2})$  or coloured green or green-and-yellow.

Connect the blue wire to the terminal marked with the letter N or coloured black.

**IMPORTANT**: Consult a qualified electrician or service technician if in doubt about any of these instructions.

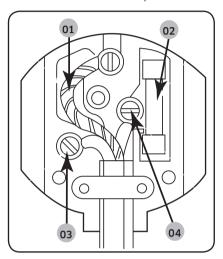






The manufacturer of this oven will not accept any liability for damage to persons or material for non observance of these requirements.

There are no user-serviceable parts inside the oven and if the mains lead of this appliance is damaged, it must only be replaced by qualified service personnel approved by the manufacturer because special tools are required.



**01** GREEN AND YELLOW

**02** 13 AMP FUSE

03 BLUE

**04** BROWN

**WARNING**: Ensure that the plug and power cord are not damaged before use. If you have any reason to remove the moulded plug from this appliance, immediately remove the fuse and dispose of the plug.

Do not connect the plug to a mains socket under any circumstances as there is a danger of electric shock.

**CIRCUITS**: Your microwave oven should be operated on a separate circuit from other appliances. Failure to do this may cause the circuit breaker to trip, the fuse to blow, or the food to cook more slowly.



### **Microwave Symbols**

On the front of your oven there is a microwave oven symbol, as shown below.



This symbol has been introduced for your benefit when cooking or reheating packaged food.

Packaged food is also, increasingly, using a microwave symbol similar to the one below. When you see this

Symbol on food packaging, cooking instructions are based on either the IEC Power Output Rating, or the Reheating Categories A, B, C, D or E.







# Safety instructions

#### **COOKING INSTRUCTIONS**

The IEC Power Output rating is an internationally standardised rating, so all microwave manufacturers now use the same method of measuring power output.

If food packaging gives cooking instructions based on IEC Power ratings, set cooking times according to the IEC Power of your oven.

#### For example:

If the cooking instructions are based on a 650 W oven, then you will need to reduce some cooking time for the MS23J5133A\* (800 W).

Ready meals are now very convenient and popular. These are meals which are already prepared and cooked by the food manufacturer, and then frozen, chilled or vacuum sealed for long life.

Increasingly, heating times for such ready meals are being based on the Heating Categories A, B, C, D and E.

On this instance, simply match the heating category of your oven to the instructions on the food package, and set your timer accordingly.

#### For example:

If the heating instructions are 3 minutes on HIGH for a D category oven, then you will need to set your timer for less than 3 minutes on HIGH for the MS23J5133A\* (E category).

**IMPORTANT**: Always remember that cooking instructions are intended only as a guide. If you have followed the instructions and the food is still not piping hot throughout, simply return it to the oven and cook it until it is.

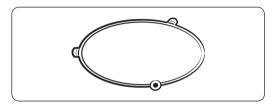
16 English \_\_\_\_\_

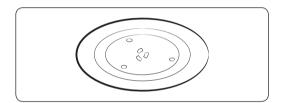


# Installation

#### **Accessories**

Depending on the model that you have purchased, you are supplied with several accessories that can be used in a variety of ways.





**O1Roller ring**, to be placed in the centre of the oven.

**Purpose:** The roller ring supports the turntable.

**O2Turntable**, to be placed on the roller ring with the centre fitting to the coupler.

**Purpose:** The turntable serves as the main cooking surface; it can be easily removed for cleaning.

#### **☞** IMPORTANT

**DO NOT** operate the microwave oven without the roller ring and turntable.

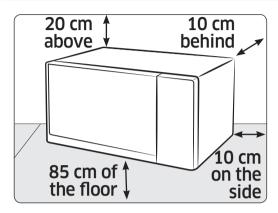






# Installation

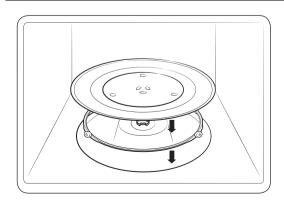
#### Installation site



- Conform to the power supply specifications of this oven.
   Use only approved extension cables if you need to use.
- Wipe the interior and the door seal with a damp cloth before using your oven for the first time.

- Select a flat, level surface approx. 85 cm above the floor. The surface must support the weight of the oven.
- Secure room for ventilation, at least 10 cm from the rear wall and both sides, and 20 cm from above.
- Do not install the oven in hot or damp surroundings, such as next to other microwave ovens or radiators

#### **Turntable**



Remove all packing materials inside the oven. Install the roller ring and turntable. Check that the turntable rotates freely.

18 English.



# **Maintenance**

### Cleaning

Clean the oven regularly to prevent impurities from building up on or inside the oven. Also pay special attention to the door, door sealing, and turntable and roller ring (applicable models only).

If the door won't open or close smoothly, first check if the door seals have built up impurities. Use a soft cloth in soapy water to clean both the inner and outer sides of the oven. Rinse and dry well.

#### To remove stubborn impurities with bad smells from inside the oven

- **1.**With an empty oven, put a cup of diluted lemon juice on the centre of the turntable.
- **2.**Heat the oven for 10 minutes at max power.
- **3.**When the cycle is complete,

wait until the oven cools down. Then, open the door and clean the cooking chamber.

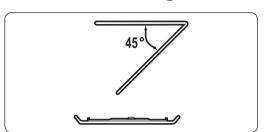






# **Maintenance**

### To clean inside swing-heater models



To clean the upper area of the cooking chamber, lower the top heating element by 45° as shown. This will help clean the upper area. When done, reposition the top heating element.

#### **⚠ CAUTION**

- Keep the door and door sealing clean and ensure the door opens and closes smoothly.
   Otherwise, the oven's lifecycle may be shortened.
- Take caution not to spill water into the oven vents.
- Do not use any abrasive or chemical substances for cleaning.
- After each use of the oven, use a mild detergent to clean the cooking chamber after waiting for the oven to cool down.

20 English \_\_\_\_\_



### Replacement (repair)

#### **WARNING**

This oven has no user-removable parts inside. Do not try to replace or repair the oven yourself.

- If you encounter a problem with hinges, sealing, and/or the door, contact a qualified technician or a local Samsung service centre for technical assistance.
- If you want to replace the light bulb, contact a local Samsung service centre. Do not replace it yourself.
- If you encounter a problem

with the outer housing of the oven, first unplug the power cord from the power source, and then contact a local Samsung service centre.

## Care against an extended period of disuse

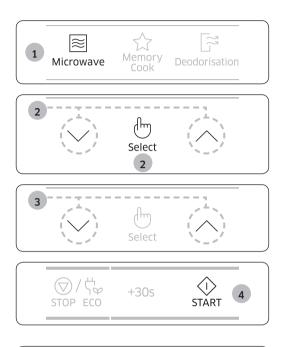
 If you don't use the oven for an extended period of time, unplug the power cord and move the oven to a dry, dust-free location. Dust and moisture that builds up inside the oven may affect the performance of the oven.







# Quick look-up guide



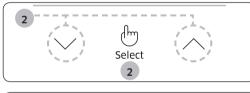
#### If you want to cook some food.

- **1.** Place the food in the oven.

  Press **Microwave** button to start cooking.
- **2.** Press **Up/Down** button until the appropriate power level is displayed. At that time, press the **Select** button to set the power level.
- **3.** Set the cooking time by Pressing **Up/ Down** button.
- **4.** Press the **START** button.

**Result:** Cooking starts. The oven beeps 4 times when cooking is over.











# If you want to Power defrost some food.

- **1.** Place the frozen food in the oven. Press the **Power Defrost** button.
- Set the cooking category by Pressing Up/ Down button. Press the Select button to set desired.
- **3.** Select the weight by turning the Pressing **Up/Down** button required.
- **4.** Press the **START** button.

### If you want to add extra 30 seconds.

Leave the food in the oven.

Press the **+30s** one or more times for each extra 30 seconds that you wish to add. Pressing the **START** button.

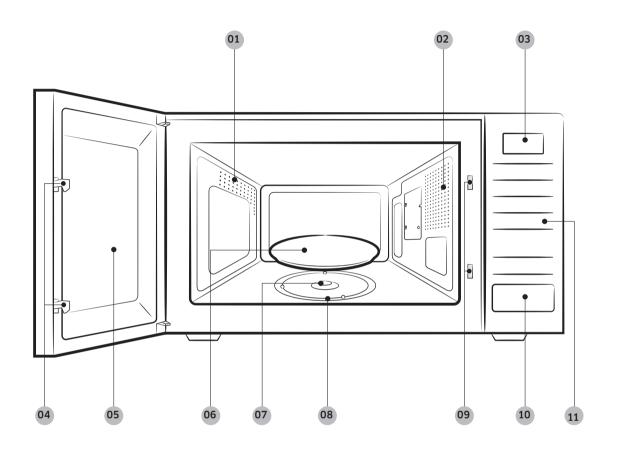
22 English.





# **Oven features**

### Oven



- **01** Ventilation holes
- 02 Light
- **03** Display
- **04** Door latches
- **05** Door
- **06** Turntable
- **07** Coupler
- **08** Roller ring

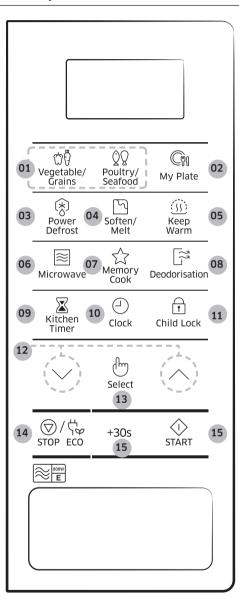
- **09** Safety interlock holes
- 10 Open door push button
- 11 Control panel

English 23



# **Oven features**

### **Control panel**



- **01** Healthy Cooking Selection
- 02 My Plate Button
- **03** Power Defrost Button
- **04** Soften/Melt Button
- **05** Keep Warm Button
- **06** Microwave Mode Button
- **07** Memory Cook Button
- **08** Deodorisation Button
- **09** Kitchen Timer Button
- 10 Clock Button
- 11 Child Lock Button
- **12** Up/Down Button (Cooking time, Weight and serving size)
- 13 Select Button
- 14 Stop/Energy save Button
- 15 +30s Button
- **16** Start Button



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### Oven use

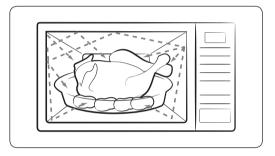
#### How a microwave oven works

Microwaves are high-frequency electromagnetic waves; the energy released enables food to be cooked or reheated without the foods form or colour changing.

You can use your microwave oven to:

- Defrost (manual & auto)
- Cook
- Reheat

Cooking Principle.



- **1.** The microwaves generated by the magnetron are distributed uniformly as the food rotates on the turntable. The food is thus cooked evenly.
- **2.** The microwaves are absorbed by the food up to a depth of about 1 inch (2.5 cm). Cooking then continues as the heat is dissipated within the food.
- **3.** Cooking times vary according to the recipient used and the properties of the food:
  - Quantity and density
  - Water content
  - Initial temperature (refrigerated or not)

#### **■ IMPORTANT**

As the centre of the food is cooked by heat dissipation, cooking continues even when you have taken the food out of the oven. Standing times specified in recipes and in this booklet must therefore be respected to ensure:

- Even cooking of the food right to the centre.
- The same temperature throughout the food.





26 English.



### Oven use

### Checking that your oven is operating correctly

The following simple procedure enables you to check that your oven is working correctly at all times.

Open the oven door, and place a glass of water on the turntable. Then, close the door.



- **1.** Press the **+30s** button and set the time to 4-5 minutes by pressing **+30s** button the appropriate number of times.
- **2.** Press the **START** button.

Result: The oven heats the water for 4 to 5 minutes. The water should then be boiling.



The oven must be plugged into an appropriate wall socket. The turntable must be in position in the oven. If a power level other than the maximum is used, the water takes longer to boil.



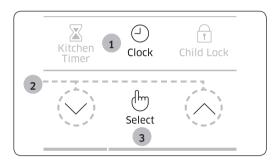




### Setting the time

When power is supplied, "88:88" and then "12:00" is automatically displayed on the display. Please set the current time. The time can be displayed in either the 24-hour or 12-hour notation. You must set the clock:

- When you first install your microwave oven
- After a power failure







Do not forget to reset the clock when you switch to and from summer and winter time.

- 1. Press the Clock button.
- **2.** Press **Up/Down** button to set time display type. (12H or 24H)
- **3.** Press the **Select** button to complete the setup.
- **4.** Press **Up/Down** button to set the hour.
- **5.** Press the **Select** button.
- **6.** Press **Up/Down** button to set the minute.
- **7.** When the right time is displayed, press the **Select** button to start the clock.

Result: The time is displayed whenever you are not using the microwave oven.







# Oven use

### Cooking/Reheating

The following procedure explains how to cook or reheat food.

#### **■** IMPORTANT

ALWAYS check your cooking settings before leaving the oven unattended.

Microwave Memory Deodorisation

Kitchen Timer Clock Child Lock

Select 2





Open the door. Place the food in the centre of the turntable. Close the door. Never switch the microwave oven on when it is empty.

**1.** Press the **Microwave** button.

**Result:** The following indications are displayed:

- 2. Press Up/Down button until the appropriate power level is displayed. At that time, press the Select button to set the power level.
  - If don't set the power level within
     5 seconds, Automatically changes to the cooking time setting stage.
- **3.** Set the cooking time by Pressing **Up/ Down** button.

**Result:** The cooking time is displayed.

**4.** Press the **START** button.

Result:

The oven light comes on and the turntable starts rotating. Cooking starts and when it has finished.

 The oven beep and flash "End" 4 times.

The oven will then beep one time per minute.



If you wish to heat a dish for a short period of time at maximum power (800 W), simply press the **+30s** button once for each 30 seconds of cooking time. Press the **START** button to start cooking.

#### **☞** IMPORTANT

**Never** switch the microwave oven on when it is empty.

28 English.



#### **Power levels**

You can choose among the power levels below.

Power level	Output
HIGH	800 W
MEDIUM HIGH	600 W
MEDIUM	450 W
MEDIUM LOW	300 W
DEFROST	180 W
LOW	100 W



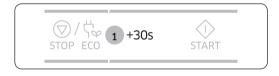
If you select higher power level, the cooking time must be decreased.



If you select lower power level, the cooking time must be increased.

### Adjusting the cooking time

You can increase the cooking time by pressing the **+30s** button once for each 30 seconds to be added.





- **1.** Press the **+30s** button once for each 30 seconds to be added.
- 2. Press the **START** button.

English 29

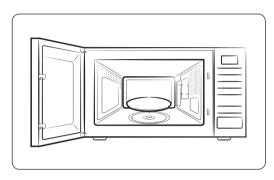




# Oven use

### Stopping the cooking

You can stop cooking at any time to check the food.





**1.** To stop temporarily; Open the door.

Result: Cooking stops. To resume cooking, close the door and press the START button again.

2. To stop completely;

Press the **STOP/ECO** button.

**Result:** The cooking stops.

If you wish to cancel the cooking settings, press the **STOP/ECO** button again



You can cancel any setting before starting cooking by simply pressing the **STOP/ECO** button

### Setting the energy save mode

The oven has an energy save mode.



• Press the **STOP/ECO** button.

**Result:** Display off.

- To remove energy save mode, open the door or press the STOP/ECO button and then display shows current time. The oven is ready for use.
- NOTE

#### Auto energy saving function

If you do not select any function when appliance is in the middle of setting or operating with temporary stop condition, function is canceled and clock will be displayed after 25 minutes.

Oven Lamp will be turned off after

Oven Lamp will be turned off after 5 minutes with door open condition.

30 English.



### Using the healthy cooking features

The 16 **Healthy Cooking** features provide pre-programmed cooking times. You do not need to set either the cooking times or the power level.



Use only recipients that are microwave-safe.





Open the door. Place the food in the centre of the turntable. Close the door.

- 1. Press the **Healthy Cooking** button.
- 2. Select the type of food that you are cooking by pressing Up/Down button. Refer to the table on the following page for a description of the various preprogrammed settings.
- 3. Press the START button.
  - **Result:** The food is cooked according to the pre-programmed setting selected.
    - When cooking has finished, the oven will beep and flash "End" 4 times. The oven will then beep one time per minute.







# Oven use

# Healthy cooking guide

### 1. Vegetable/Grains

Code/Food	Serving Size	Instructions
1-1 Broccoli Florets	250 g	Rinse and clean fresh broccoli and prepare florets. Put them evenly into a glass bowl with lid. Add 30 ml (2 tbsp) water when cooking for 250 g. Put bowl in the centre of turntable. Cook covered. Stir after cooking. Stand for 1-2 minutes.
1-2 Sliced Carrots	250 g	Rinse and clean carrots and prepare even slices. Put them evenly into a glass bowl with lid. Add 30 ml (2 tbsp) water when cooking for 250 g. Put bowl in the centre of turntable. Cook covered. Stir after cooking. Stand for 1-2 minutes.
1-3 Green Beans	250 g	Rinse and clean green beans. Put them evenly into a glass bowl with lid. Add 30 ml (2 tbsp) water when cooking 250 g. Put bowl in the centre of turntable. Cook covered. Stir after cooking. Stand for 1-2 minutes.
1-4 Spinach	150 g	Rinse and clean spinach. Put into a glass bowl with lid. Do not add water. Put bowl in the centre of turntable. Cook covered. Stir after cooking. Stand for 1-2 minutes.
1-5 Corn on the cob	250 g (1 pcs)	Rinse and clean corn on the cob and put into an oval glass dish. Cover with microwave cling film and pierce film. Stand for 1-2 minutes.
1-6 Peeled Potatoes	250 g	Wash and peel the potatoes and cut into a similar size. Put them into a glass bowl with lid. Add 45-60 ml (3-4 tbsp) water. Put bowl in the centre of turntable. Cook covered. Stand for 2-3 minutes.
1-7 Brown Rice	125 g	Use a large glass ovenware dish with lid. Add double quantity of cold water (250 ml). Cook covered. Stir before standing time and add salt and herbs. Stand for 5-10 minutes.
1-8 Wholemeal Macaroni	125 g	Use a large glass ovenware dish with lid. Add 500 ml hot boiling water, a pinch of salt and stir well. Cook uncovered. Stir before standing time and drain thoroughly afterwards. Stand for 1 minutes.
1-9 Quinoa	125 g	Use a large glass ovenware dish with lid. Add double quantity of cold water (250 ml). Cook covered. Stir before standing time and add salt and herbs. Stand for 1-3 minutes.
1-10 Bulgur	125 g	Use a large glass ovenware dish with lid. Add double quantity of cold water (250 ml). Cook covered. Stir before standing time and add salt and herbs. Stand for 2-5 minutes.

32 English \_\_\_\_\_





# 2. Poultry/Seafood

Code/Food	Serving Size	Instructions
2-1 Chicken Breasts	300 g (2 pcs)	Rinse pieces and put on a ceramic plate. Cover with microwave cling film. Pierce film. Put dish on turntable. Stand for 2 minutes.
2-2 Turkey Breasts	300 g (2 pcs)	Rinse pieces and put on a ceramic plate. Cover with microwave cling film. Pierce film. Put dish on turntable. Stand for 2 minutes.
2-3 Fresh Fish Fillets	300 g (2 pcs)	Rinse fish and put on a ceramic plate, add 1 tbsp lemon juice. Cover with microwave cling film. Pierce film. Put dish on turntable. Stand for 1-2 minutes.
2-4 Fresh Salmon Fillets	300 g (2 pcs)	Rinse fish and put on a ceramic plate, add 1 tbsp lemon juice. Cover with microwave cling film. Pierce film. Put dish on turntable. Stand for 1-2 minutes.
2-5 Fresh Prawns	250 g	Rinse prawns on a ceramic plate, add 1 tbsp lemon juice. Cover with microwave cling film. Pierce film. Put dish on turntable. Stand for 1-2 minutes.
2-6 Fresh Trout	200 g (1 fish)	Put 2 fresh whole fish into an ovenproof dish. Add a pinch salt, 1 tbsp lemon juice and herbs. Cover with microwave cling film. Pierce film. Put dish on turntable. Stand for 2 minutes.







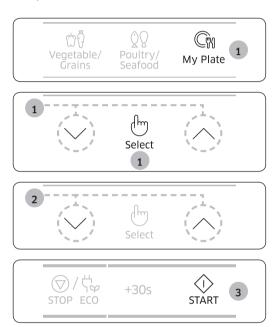
# Oven use

### Using the my plate features

The My Plate features has two pre-programmed cooking times.

You do not need to set either the cooking times or the power level. You can adjust the number of servings by Pressing **Up/Down** button.

First, place the food in the centre of the turntable and close the door.



- Press the My Plate button. Select the type of food that you are cooking by pressing Up/Down button. Press the Select button
  - 1) Ready Meal (Chilled)
  - 2) Vegetarian Meal (chilled)
- 2. Select the size of the serving by Pessing Up/Down button. (Refer to the table on the side.)
- 3. Press the START button.

**Result:** Cooking starts. When it has finished.

- 1) The oven beeps 4 times.
- The end reminder signal will beep 3 times (once every minute).
- 3) The current time is displayed again.



Use only recipients that are microwave-safe.

The following table presents the **My Plate** auto reheat programmes, quantities and appropriate Instructions. Those programmes are running with microwave energy only.

Code/Food	Serving Size	Instructions
1 Chilled Ready Meal	300-350 g 400-450 g	Put on a ceramic plate and cover with microwave cling film. This programme is suitable for meals consisting of 3 components (e.g. meat with sauce, vegetables and a side dishes like potatoes, rice or pasta). Stand for 2-3 minutes.
2 Chilled Vegetarian Meal	300-350 g 400-450 g	Put meal on a ceramic plate and cover with microwave cling film. This programme is suitable for meals consisting of 2 components (e.g. spaghetti with sauce or rice with vegetables). Stand for 2-3 minutes.

34 English.

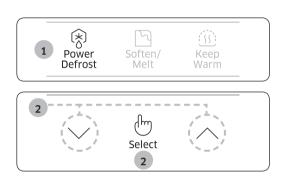


### Using the power defrost features

The **Power Defrost** features enable you to defrost meat, poultry, fish, bread/case. The defrost time and power level are set automatically. You simply select the programme and the weight.

### NOTE

Use only containers that are microwavesafe.





Open the door. Place the frozen food on a ceramic in the centre of the turntable. Close the door.

- **1.** Press the **Power Defrost** button.
- 2. Select the type of food that you are cooking by Pressing Up/Down button. Refer to the table on the following page for a description of the various preprogrammed settings. At that time, press the Select button to select the type of food.
- **3.** Select the size of the serving by Pressing **Up/Down** button.
- **4.** Press the **START** button. **Result:** 
  - Defrosting begins.
  - The oven beeps through defrosting to remind you to turn the food over.
- **5.** Press the **START** button again to continue defrosting.

Result: When cooking has finished, the oven will beep and flash "End" 4 times. The oven will then beep one time per minute.







## Oven use

The following table presents the various **Power Defrost** programmes, quantities and appropriate instructions. Remove all kind of package material before defrosting. Place meat, poultry, fish, bread/case on a ceramic plate.

Code/Food	Serving Size	Instructions
1 Meat	200-1500 g	Shield the edges with aluminium foil. Turn the meat over when the oven beeps. This programme is suitable for beef, lamb, pork, steaks, chops and minced meat. Stand for 20-60 minutes.
2 Poultry	200-1500 g	Shield the leg and wing tips with aluminium foil. Turn the poultry over when the oven beeps. This programme is suitable for whole chicken and chicken portions. Stand for 20-60 minutes.
3 Fish	200-1500 g	Shield the tail of the whole fish with aluminium foil. Turn the fish over when the oven beeps. This programme is suitable for whole fishes and fish fillets. Stand for 20-50 minutes.
4 Bread/Cake	125-625 g	Put bread on a piece of kitchen paper and turn over, as soon as the oven beeps. Place cake on a ceramic plate and if possible, turn over, as soon as the oven beeps. (Oven keeps operating and is stopped, when you open the door. This programme is suitable for all kinds of bread, sliced or whole, as well as for bread rolls and baguettes.  Arrange bread rolls in a circle. This programme is suitable for all kinds of yeast cake, biscuit, cheese cake and puff pastry. It is not, suitable for short/crust pastry, fruit and cream cakes as well as for cake with chocolate topping. Stand for 5-20 minutes.

36 English \_\_\_\_\_





### Using the soften/melt features

The **Soften/Melt** features has four pre-programmed cooking times.

You do not need to set either the cooking times or the power level. You can adjust the number of servings by Pressing **Up/Down** button.

First, place the food in the centre of the turntable and close the door.



- 1. Press the **Soften/Melt** button.
- **2.** Select the type of food that you are cooking by pressing **Up/Down** button then press **Select** button.
- **3.** Select the size of the serving by Pressing **Up/Down** button. (Refer to the table on the side.)
- 4. Press the START button.

**Result:** Cooking starts. When it has finished.

- 1) The oven beeps 4 times.
- 2) The end reminder signal will beep 3 times (once every minute).
- 3) The current time is displayed again.



Use only recipients that are microwave-safe.







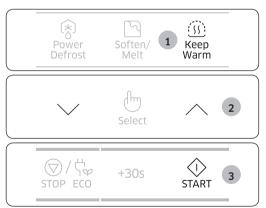
## Oven use

The following table presents the **Soften/Melt** programmes, quantities and appropriate Instructions. Those programmes are running with microwave energy only.

Code/Food	Serving Size	Instructions
1 Melting Butter	50 g 100 g	Cut butter into 3 or 4 pieces and Put them on small glass bowl. Melt uncovered. Stir after cooking. Stand for 1-2 minutes.
2 Melting Dark Chocolate	50 g 100 g	Grate dark chocolate and put in small glass bowl. Melt uncovered. Stir after melting. Stand for 1-2 minutes.
3 Melting Sugar	25 g 50 g	Put sugar on small glass bowl. Add 10 ml water for 25 g and add 20 ml water for 50 g. Melt uncovered. Take out carefully, use oven gloves! Use spoon or fork and pour caramel decorations on baking paper. Let stand for 10 minutes until dry and remove from paper.
4 Soften Butter	50 g 100 g	Cut butter into 3 or 4 pieces and Put them in small glass bowl. Soften uncovered. Stir after cooking. Stand for 1-2 minutes.

#### Using the keep warm features

The **Keep warm** feature keeps food hot until it's served. Use this function to keep food warm until ready to serve. Keep warm mode operates for 99 minute.



#### **☞** IMPORTANT

Do not cover with lids or plastic wrap.

#### **■ IMPORTANT**

Use oven gloves when taking out food.

- **1.** Press the **Keep warm** button.
- Press the Up/Down button if you want to set the warming time.(Warming time is set as 99 minute at first)
- **3.** Press the **START** button.

  To stop warming the food, open the door or press **STOP/ECO** button.

#### **☞** IMPORTANT

Do not use this function to reheat cold foods. This programmes are for keeping food warm that has just been cooked.

#### **■ IMPORTANT**

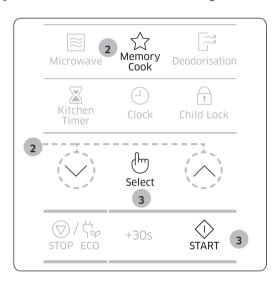
Do not recommend food being kept warm for too long (more than 1 hour), as it will continue to cook. Warm food spoils more quickly.

38 English.



### Using the memory cook features

If you often cook or reheat the same types of dishes, you can store the cooking times and power levels in the oven's memory, so that you do not have to reset them each order. you can store two different setting



- **1.** Set your cooking programme as usual (cooking time and power level) see Cooking/Reheating page again if necessary.
- **2.** Press **Memory Cook** button, then select the program that you want to save by pressing **Up/Down** button.

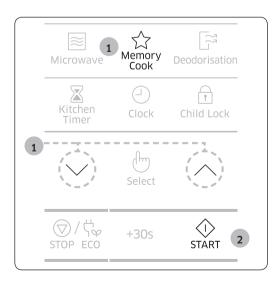
P1 : First setting P2 : Second setting

**3.** Press the **Select** button to finish the setting. Or, press the **START** button to start the program immediately.

**Result:** Your setting are now stored in the oven's memory.

### To use the memory cook setting

First, place the food in the centre of the turntable and close the door.



 Press Memory Cook button, then select the program by pressing Up/Down button.

P1 : First setting P2 : Second setting

2. Press the START button.

**Result:** The food is cooked as requested.

English 39



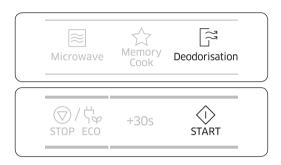




## Oven use

### Using the deodorisation features

Use this features after cooking odorous food or when there is a lot of smoke in the oven interior. First clean the oven interior.



Press the **Deodorisation** button after you have finished cleaning and press the **Start** button. You will hear four beeps when it has finished.

### NOTE

The deodorisation time has been specified as 5 minutes. It increases by 30 seconds whenever the **+30s** button is pressed.

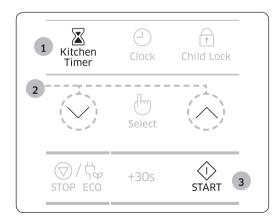


The maximum deodorisation time is 15 minutes.

### Setting a standing time (kitchen timer)

The **Kitchen Timer** can be used to set a standing time automatically (without microwave cooking).

First, place the food in the centre of the turntable and close the door.



- 1. Press the Kitchen Timer button.
- **2.** Select the Standing time by pressing **Up/ Down** button.
- **3.** Press the **START** button.

**Result:** Standing time starts. When it has finished.

- The oven beeps 4 times.
- The current time is displayed again.

40 English \_



### Safety-locking your microwave oven

Your microwave oven is fitted with a special Child Safety programme, which enables the oven to be "locked" so that children or anyone unfamiliar with it cannot operate it accidentally.

The oven can be locked at any time.



- **1.** Press the **Child Lock** button for 3 seconds. **Result:** 
  - The oven is locked (no functions can be selected).
  - The display shows "L".



**2.** To unlock the oven, press the **Child Lock** button again at the same time.

**Result:** The oven can be used normally.

### Switching the beefer off

You can switch the beeper off whenever you want.



**1.** Press the **STOP/ECO** and **START** button at the same time.

Result:

The oven will not beep each time you press a button.

• The following indication is displayed.



To switch the beeper back on, press the STOP/ECO and START buttons again at the same time.

Result:

The oven will not beep each time you press a button.

• The following indication is displayed.



English 41

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## Cookware guide

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 when choosing the cookware. If the cookware is marked microwave-safe, you do not need to worry.

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

	wave oven.	
Cookware	Microwave-safe	Comments
Aluminum foil	<b>√</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.
Crust plate	✓	Do not preheat for more than 8 minutes.
China and earthenware	✓	Porcelain, pottery, glazed earthenware and bone china are usually suitable, unless decorated with a metal trim.
Disposable polyester cardboard dishes	1	Some frozen foods are packaged in these dishes.
Fast-food packaging		
<ul> <li>Polystyrene cups containers</li> </ul>	✓	Can be used to warm food. Overheating may cause the polystyrene to melt.
<ul> <li>Paper bags or newspaper</li> </ul>	×	May catch fire.
Recycled paper or metal trims	×	May cause arcing.
Glassware		
Oven-to-tableware	✓	Can be used, unless decorated with a metal trim.
Fine glassware	✓	Can be used to warm foods or liquids. Delicate glass may break or crack if heated suddenly.
• Glass jars	<b>✓</b>	Must remove the lid. Suitable for warming only.
Metal		
• Dishes	×	May cause arcing or fire.
• Freezer bag twist ties	×	





42 English \_

\_\_ English 43

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Cookware	Microwave-safe	Comments
	Wherever sale	Comments
Paper		
<ul> <li>Plates, cups, napkins</li> </ul>	✓	For short cooking times and warming. Also to
and kitchen paper		absorb excess moisture.
<ul> <li>Recycled paper</li> </ul>	×	May cause arcing.
Plastic		
• 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	√X	Only if boilable or oven-proof. Should not be airtight. Prick with a fork, if necessary.
Wax or grease-proof paper	1	Can be used to retain moisture and prevent spattering.

: Recommended

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✓x : Use caution

: Unsafe





•



## Cooking guide

#### **Microwaves**

Microwave energy actually penetrates food, attracted and absorbed by its water, fat and sugar content.

The microwaves cause the molecules in the food to move rapidly. The rapid movement of these molecules creates friction and the resulting heat cooks the food.

#### Cooking

#### Cookware for microwave cooking:

Cookware must allow microwave energy to pass through it for maximum efficiency. Microwaves are reflected by metal, such as stainless steel, aluminium and copper, but they can penetrate through ceramic, glass, porcelain and plastic as well as paper and wood. So food must never be cooked in metal containers.

#### Food suitable for microwave cooking:

Many kinds of food are suitable for microwave cooking, including fresh or frozen vegetables, fruit, pasta, rice, grains, beans, fish, and meat. Sauces, custard, soups, steamed puddings, preserves, and chutneys can also be cooked in a microwave oven. Generally speaking, microwave cooking is ideal for any food that would normally be prepared on a hob. Melting butter or chocolate, for example (see the chapter with tips, techniques and hints).

#### Covering during cooking

To cover the food during cooking is very important, as the evaporated water rises as steam and contributes to cooking process. Food can be covered in different ways: e.g. with a ceramic plate, plastic cover or microwave suitable cling film.

#### Standing times

After cooking is over food the standing time is important to allow the temperature to even out within the food.







## Reheating liquids and food

Use the power levels and times in this table as a guide lines for reheating.

Food	Serving Size	Power	Time (min.)	
Drinks (Coffee, Tea and	150 ml (1 cup)	800 W	1-1½	
Water)	250 ml (1 mug)		1½-2	
	Instructions Pour into cup and reheat uncovered. Put cup/ mug in the centre of turntable. Keep in microwave oven during standing time and stir well. Stand for 1-2 minutes.			
Soup (Chilled)	250 g	800 W	3-31/2	
	Instructions Pour into a deep ceramic plate. Cover with plastic lid. Stir well after reheating. Stir again before serving. Stand for 2-3 minutes.			
Stew (Chilled)	350 g	600 W	5½-6½	
	Instructions Put stew in a deep ceramic plate. Cover with plastic lid. Stir occasionally during reheating and again before standing and serving. Stand for 2-3 minutes.			
Pasta with Sauce	350 g	600 W	4½-5½	
(Chilled)	Instructions Put pasta (e.g. spaghetti or egg noodles) on a flat ceramic plate. Cover with microwave cling film. Stir before serving. Stand for 3 minutes.			
Filled Pasta with Sauce	350 g	600 W	5-6	
(Chilled)	Instructions Put filled pasta (e.g. ravioli, tortellini) in a deep ceramic plate. Cover with plastic lid. Stir occasionally during reheating and again before standing and serving. Stand for 3 minutes.			
Plated Meal (Chilled)	350 g	600 W	5½-6½	
		illed components on a co film. Stand for 3 minute		
Pasta (Frozen)	400 g	450 W	16-16½	
(Cannelloni, Macaroni, Lasagne)	Instructions Put frozen pasta into a small flat rectangular glass pyrex dish. Put the dish directly on the turntable. Stand for 2-3 minutes.			









You may encounter a problem using the oven. In that case, first check the table below and try the suggestions. If a problem persists, or if any information code keeps appearing on the display, contact a local Samsung service centre.

### Checkpoints

If you encounter a problem with the oven, first check the table below and try the suggestions.

Problem	Cause	Action
General		
The buttons cannot be pressed properly.	Foreign matter may be caught between the buttons.	Remove the foreign matter and try again.
	For touch models: Moisture is on the exterior.	Wipe the moisture from the exterior.
	Child lock is activated.	Deactivate Child lock.
The time is not	Power is not supplied.	Make sure power is supplied.
displayed.	The Eco (power-saving) function is set.	Turn off the Eco function.
The oven does not	Power is not supplied.	Make sure power is supplied.
work.	The door is open.	Close the door and try again.
	The door open safety mechanisms are covered in foreign matter.	Remove the foreign matter and try again.
The oven stops while in operation.	The user has opened the door to turn food over.	After turning over the food, press the <b>Start</b> button again to start operation.
The power turns off during operation.	The oven has been cooking for an extended period of time.	After cooking for an extended period of time, let the oven cool.
	The cooling fan is not working.	Listen for the sound of the cooling fan.
	Trying to operate the oven without food inside.	Put food in the oven.
	There is not sufficient ventilation space for the oven.	There are intake/exhaust outlets on the front and rear of the oven for ventilation. Keep the gaps specified in the product installation guide.
	Several power plugs are being used in the same socket.	Designate only one socket to be used for the oven.

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Problem	Cause	Action
There is no power to the oven.	Power is not supplied.	Make sure power is supplied.
There is a popping sound during operation, and the oven doesn't work.	Cooking sealed food or using a container with a lid may causes popping sounds.	Do not use sealed containers as they may burst during cooking due to expansion of the contents.
The oven exterior is too hot during operation.	There is not sufficient ventilation space for the oven.	There are intake/exhaust outlets on the front and rear of the oven for ventilation. Keep the gaps specified in the product installation guide.
	Objects are on top of the oven.	Remove all objects on the top of the oven.
The door cannot be opened properly.	Food residue is stuck between the door and oven interior.	Clean the oven and then open the door.
The oven does not heat.	The oven may not work, too much food is being cooked, or improper cookware is being used.	Put one cup of water in a microwave-safe container and run the microwave for 1-2 minutes to check whether the water is heated. Reduce the amount of food and start the function again. Use a cooking container with a flat bottom.
Heating is weak or slow.	The oven may not work, too much food is being cooked, or improper cookware is being used.	Put one cup of water in a microwave-safe container and run the microwave for 1-2 minutes to check whether the water is heated. Reduce the amount of food and start the function again. Use a cooking container with a flat bottom.

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Problem	Cause	Action
The warm function does not work.	The oven may not work, too much food is being cooked, or improper cookware is being used.	Put one cup of water in a microwave-safe container and run the microwave for 1-2 minutes to check whether the water is heated. Reduce the amount of food and start the function again. Use a cooking container with a flat bottom.
The thaw function does not work.	The oven may not work, too much food is being cooked, or improper cookware is being used.	Put one cup of water in a microwave-safe container and run the microwave for 1-2 minutes to check whether the water is heated. Reduce the amount of food and start the function again. Use a cooking container with a flat bottom.
The interior light is dim or does not turn on.	The door has been left open for a long time.	The interior light may automatically turn off when the Eco function operates. Close and reopen the door or press the <b>Cancel</b> button.
	The interior light is covered by foreign matter.	Clean the inside of the oven and check again.
A beeping sound occurs during cooking.	If the Auto Cook function is being used, this beeping sound means it's time to turn over the food during thawing.	After turning over the food, press the <b>Start</b> button again to restart operation.
The oven is not level.	The oven is installed on an uneven surface.	Make sure the oven is installed on flat, stable surface.
There are sparks during cooking.	Metal containers are used during the oven/thawing functions.	Do not use metal containers.
When power is connected, the oven immediately starts to work.	The door is not properly closed.	Close the door and check again.

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Problem	Cause	Action
There is electricity coming from the oven.	The power or power socket is not properly grounded.	Make sure the power and power socket are properly grounded.
There is water dripping.	There may be water or steam in some cases depending on the food. This is not an oven malfunction.	Let the oven cool and then wipe with a dry dish towel.
There is steam through a crack in the door.	There may be water or steam in some cases depending on the food. This is not an oven malfunction.	Let the oven cool and then wipe with a dry dish towel.
There is water left in the oven.	There may be water or steam in some cases depending on the food. This is not an oven malfunction.	Let the oven cool and then wipe with a dry dish towel.
The brightness inside the oven varies.	Brightness changes depending on power output changes according to function.	Power output changes during cooking are not malfunctions. This is not an oven malfunction.
Cooking is finished, but the cooling fan is still running.	To ventilate the oven, the cooling fan continues to run for about 3 minutes after cooking is complete.	This is not an oven malfunction.
Pressing the +30s button operates the oven.	This happens when the oven was not operating.	The microwave oven is designed to operate by pressing the +30s button when it was not operating.





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Problem	Cause	Action
Turntable		
While turning, the turntable comes out of place or stops turning.	There is no roller ring, or the roller ring is not properly in place.	Install the roller ring and then try again.
The turn table drags while turning.	The roller ring is not properly in place, there is too much food, or the container is too large and touches the inside of the microwave.	Adjust the amount of food and do not use containers that are too large.
The turn table rattles while turning and is noisy.	Food residue is stuck to the bottom of the oven.	Remove any food residue stuck to the bottom of the oven.
Grill		
Smoke comes out during operation.	During initial operation, smoke may come from the heating elements when you first use the oven.	This is not a malfunction, and if you run the oven 2-3 times, it should stop.
	Food is on the heating elements.	Let the oven cool and then remove the food from the heating elements.
	Food is too close to the grill.	Put the food a suitable distance away while cooking.
	Food is not properly prepared and/or arranged.	Make sure food is properly prepared and arranged.



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Problem	Cause	Action
Oven		
The oven does not heat.	The door is open.	Close the door and try again.
Smoke comes out during preheating.	During initial operation, smoke may come from the heating elements when you first use the oven.	This is not a malfunction, and if you run the oven 2-3 times, it should stop.
	Food is on the heating elements.	Let the oven cool and then remove the food from the heating elements.
There is a burning or plastic smell when using the oven.	Plastic or non heat-resistant cookware is used.	Use glass cookware suitable for high temperatures.
There is a bad smell coming from inside the oven.	Food residue or plastic has melted and stuck to the interior.	Use the steam function and then wipe with a dry cloth. You can put a lemon slice inside and run the oven to remove the odour more quickly.
The oven does not cook properly.	The oven door is frequently opened during cooking.	Do not frequently open the door unless you are cooking things that need to be turned. If you open the door often, the interior temperature will be lowered and this may affect the results of your cooking.
	The oven controls are not correctly set.	Correctly set the oven controls and try again.
	The grill or other accessories are not correctly inserted.	Correctly insert the accessories.
	The wrong type or size of cookware is used.	Reset the oven controls or use suitable cookware with flat bottoms.

## ■ NOTE

If the above guidelines do not enable you to solve the problem, then contact your local SAMSUNG customer service centre.

Please have the following information read;

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- The model and serial numbers, normally printed on the rear of the oven
- Your warranty details
- A clear description of the problem

Then contact your local dealer or SAMSUNG aftersales service.

#### Information code

Check code	Cause	Action
C-d0	Control buttons are pressed over 10 seconds.	Clean the keys and check if there is water on the surface around key. If it occurs again, turn off the microwave oven over 30 seconds and try setting again. If it appears again, call your local SAMSUNG Customer Care Centre.



If the above guidelines do not enable you to solve the problem, then contact your local SAMSUNG customer service centre.





# **Technical specifications**

SAMSUNG strives to improve its products at all times. Both the design specifications and these user instructions are thus subject to change without notice.

Model	MS23J5133A*
Power source	230 V ~ 50 Hz
Power consumption Microwave	1150 W
Output power	100 W / 800 W (IEC-705) - 240 V : 800 W - 230 V : 750 W
Operating frequency	2450 MHz
Dimensions (W x H x D) Outside Oven cavity	489 x 275 x 338 mm 330 x 211 x 324 mm
Volume	23 liter
Weight Net	12 kg approx.







# Memo







## Memo



