

MS89F
ME89F

Microwave oven

Owner's instructions

imagine the possibilities

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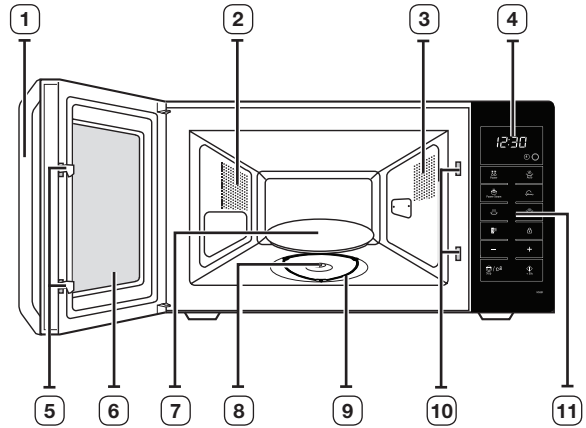
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SAMSUNG

CONTENTS

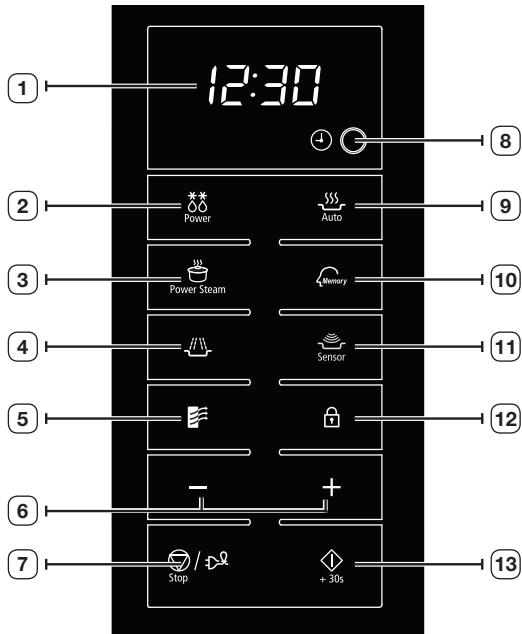
Oven	2
Control panel.....	3
Accessories	3
Using this instruction booklet.....	4
Important safety information	4
Legend for symbols and icons.....	4
Precaution to avoid possible exposure to excessive microwave energy.	5
Important safety instructions.....	5
Installing your microwave oven	9
Setting the time	9
What to do if you are in doubt or have a problem.....	10
Cooking/reheating	10
Power levels	11
Adjusting the cooking time.....	11
Stopping the cooking	11
Setting the energy save mode	11
Using the auto reheat feature.....	12
Auto reheat settings.....	12
Using the auto power defrost feature	13
Auto power defrost settings.....	13
Using the sensor cook feature	14
Sensor cook settings.....	14
Using the power steam function	16
Power steam settings	16
Using the deodorization feature	17
Using the memory feature.....	18
Switching the beeper off	18
Using the child lock feature.....	18
Cookware guide	19
Cleaning your microwave oven	20
Storing and repairing your microwave oven.....	20
Installation & wiring instructions	20
Wiring instructions	21
Cooking instructions on food packaging.....	21
Cooking instructions.....	22
Technical specifications	22

OVEN



- | | |
|-----------------------------|-----------------------------------|
| 1. DOOR HANDLE | 7. TURNTABLE |
| 2. VENTILATION HOLES | 8. COUPLER |
| 3. LIGHT | 9. ROLLER RING |
| 4. DISPLAY | 10. SAFETY INTERLOCK HOLES |
| 5. DOOR LATCHES | 11. CONTROL PANEL |
| 6. DOOR | |

CONTROL PANEL



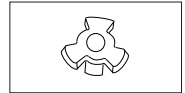
- | | |
|---------------------------------------------------------------------|--------------------------------|
| 1. DISPLAY | 7. STOP / ENERGY SAVE BUTTON |
| 2. AUTO POWER DEFROST BUTTON | 8. CLOCK SETTING |
| 3. POWER STEAM SELECTION | 9. AUTO REHEAT SELECTION |
| 4. POWER LEVEL SETTING | 10. MEMORY BUTTON |
| 5. DEODORIZATION BUTTON | 11. SENSOR COOK MODE SELECTION |
| 6. UP (+) / DOWN (-) BUTTON
(Cook time, weight and serving size) | 12. CHILD LOCK SELECTION |
| | 13. START BUTTON |

ACCESSORIES

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

- Coupler**, already placed over the motor shaft in the base of the oven.

Purpose : The coupler rotates the turntable.



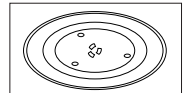
- Roller ring**, to be placed in the centre of the oven.

Purpose : The roller ring supports the turntable.



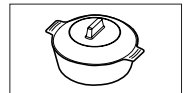
- Turntable**, to be placed on the roller ring with the centre fitting to the coupler.


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



- Power steam cooker**, see page 18-19.

Purpose : Use the plastic steam cooker when using power steam function.



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

USING THIS INSTRUCTION BOOKLET

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

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

IMPORTANT SAFETY INFORMATION


IMPORTANT SAFETY INSTRUCTIONS


READ CAREFULLY AND KEEP FOR FUTURE REFERENCE.

Before using the oven, confirm that the following instructions are followed.


- 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.


LEGEND FOR SYMBOLS AND ICONS

 **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.

 Warning; Fire hazard

 Warning; Hot surface


 Warning; Electricity


 Warning; Explosive material


 Do NOT attempt.


 Follow directions explicitly.

 Do NOT disassemble.

 Unplug the power plug from the wall socket.

 Do NOT touch.

 Make sure the machine is grounded to prevent electric shock.

 Call the service center for help.

 Note

 Important

PRECAUTION TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY.

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.

This product is a Group 2 Class B ISM equipment. The definition of group 2 which contains all ISM equipment in which radio-frequency energy is intentionally generated and/or used in the form of electromagnetic radiation for the treatment of material, and EDM and arc welding equipment. For Class B equipment is equipment suitable for use in domestic establishments and in establishments directly connected to a low voltage power supply network which supplies buildings used for domestic purposes.

IMPORTANT SAFETY INSTRUCTIONS

Make sure that these safety precautions are obeyed at all times.














 WARNING					
 Only qualified staff should be allowed to modify or repair the microwave oven.	✓	✓	✓	✓	
 Do not heat liquids and other food in sealed containers.	✓	✓	✓	✓	
 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 object on 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.	✓	✓	✓	✓	










<input type="checkbox"/>	Do not apply excessive pressure or impact to the appliance.	✓	✓	✓	✓
<input type="checkbox"/>	Do not place the oven over a fragile object such as a sink or glass object. (Counter top model only)	✓	✓		
<input type="checkbox"/>	Do not use benzene, thinner, alcohol, steam cleaner or high pressure cleaner to clean the appliance.	✓	✓	✓	✓
<input type="checkbox"/>	Ensure that the power voltage, frequency and current are the same as those of the product specifications.	✓	✓		✓
<input type="checkbox"/>	Plug the power plug into the wall socket firmly. Do not use a multiple plug adapter, an extension cord or an electric transformer.	✓	✓	✓	
<input type="checkbox"/>	Do not hook the power cord on a metal object, insert the power cord between the objects or behind the oven.	✓	✓	✓	
<input type="checkbox"/>	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.	✓	✓	✓	✓
<input type="checkbox"/>	Appliances are not intended to be operated by means of an external timer or separate remote-control system.	✓	✓		
<input type="checkbox"/>	Do not pour or directly spray water onto the oven.	✓	✓		
<input type="checkbox"/>	Do not place objects on the oven, inside or on the door of the oven.	✓	✓	✓	
<input type="checkbox"/>	Do not spray volatile material such as insecticide onto the surface of the oven.	✓	✓		
<input checked="" type="checkbox"/>	Children should be supervised to ensure that they do not play with the appliance	✓	✓	✓	✓
<input type="checkbox"/>	The appliance is not intended for installing in road vehicles, caravans and similar vehicles etc.	✓	✓	✓	✓

<input type="checkbox"/>	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.	✓		✓	✓
<input type="checkbox"/>	The microwave oven is intended to be used on the counter or counter top use only, the microwave oven shall not be placed in a cabinet. (Counter top model only)	✓	✓	✓	✓
<input checked="" type="checkbox"/>	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.	✓	✓	✓	✓
<input checked="" type="checkbox"/>	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.	✓	✓	✓	✓
<input checked="" type="checkbox"/>	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.	✓	✓	✓	✓
<input type="checkbox"/>	WARNING: If the door or door seals are damaged, the oven must not be operated until it has been repaired by a competent person.	✓	✓	✓	✓
<input type="checkbox"/>	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.	✓	✓	✓	✓

<input type="checkbox"/>	WARNING: Ensure that the appliance is switched off before replacing the lamp to avoid the possibility of electric shock.	✓	✓	✓	
<input type="checkbox"/>	WARNING: Liquids and other foods must not be heated in sealed containers since they are liable to explode.	✓		✓	✓
<input type="checkbox"/>	WARNING: Accessible parts may become hot during use. To avoid burns young children should be kept away.	✓		✓	
<input checked="" type="checkbox"/>	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: <ul style="list-style-type: none"> 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. 	✓	✓	✓	✓
<input checked="" type="checkbox"/>	During use the appliance becomes hot. Care should be taken to avoid touching heating elements inside the oven.	✓		✓	✓
<input checked="" type="checkbox"/>	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;			✓	
<input checked="" type="checkbox"/>	The 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.	✓	✓	✓	✓

<input checked="" type="checkbox"/>	This oven should be positioned proper direction and height permitting easy access to cavity and control area.	✓	✓	✓	✓
<input checked="" type="checkbox"/>	Before using the your oven first time, oven should be operated with the water during 10 minute and then used.	✓	✓	✓	✓
<input checked="" type="checkbox"/>	This microwave oven has to be positioned so that plug is accessible. 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.	✓	✓	✓	✓
<input type="checkbox"/>	during cleaning conditions the surfaces may get hotter than usual and children should be kept away (Cleaning function model only)		✓	✓	
<input type="checkbox"/>	Excess spillage must be removed before cleaning and utensils which state in cleaning manual can be left in the oven during cleaning. (Cleaning function model only)	✓	✓	✓	✓
<input checked="" type="checkbox"/>	Appliance should allow to disconnection of the appliance from the supply after installation. The disconnection may be achieved by having the plug accessible or by incorporating a switch in the fixed wiring in accordance with the wiring rules. (Built-in model only.)	✓	✓	✓	✓

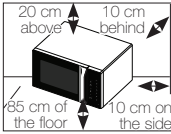
 CAUTION				
 Only use utensils that are suitable for use in microwave ovens; DO NOT use any metallic containers, Dinnerware with gold or silver trimmings, Skewers, forks, etc. Remove wire twist ties from paper or plastic bags. Reason: Electric arcing or sparking may occur and may damage the oven.	✓		✓	✓
 When heating food in plastic or paper containers, keep an eye on the oven due to the possibility of ignition;	✓		✓	
 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.	✓		✓	✓
 If smoke is observed, switch off or unplug the appliance and keep the door closed in order to stifle any flames;	✓		✓	✓
 The oven should be cleaned regularly and any food deposits removed;	✓	✓		✓
 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 in shells, 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.			✓	
 Do not touch heating elements or interior oven walls until the oven has cooled down.			✓	
 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.	✓			✓
 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.	✓			✓
 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.	✓	✓	✓	

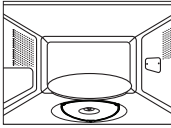
INSTALLING YOUR MICROWAVE OVEN

Place the oven on a flat level surface 85 cm above the floor. The surface should be strong enough to safely bear the weight of the oven.



1. When you install your oven, make sure there is adequate ventilation for your oven by leaving at least 10 cm (4 inches) of space behind and, on the sides of the oven and 20 cm (8 inches) of space above.



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




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

-  If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent. For your personal safety, plug the cable into a 3-pin, 230 Volt, 50 Hz, AC earthed socket. If the power cable of this appliance is damaged, it must be replaced by a special cable.
-  Do not install the microwave oven in hot or damp surroundings like next to a traditional oven or radiator. The power supply specifications of the oven must be respected and any extension cable used must be of the same standard as the power cable supplied with the oven. Wipe the interior and the door seal with a damp cloth before using your microwave oven for the first time.

SETTING THE TIME

Your microwave oven has an inbuilt clock. When power is supplied, “:0”, “88:88” or “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

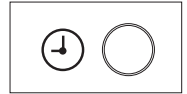
-  Do not forget to reset the clock when you switch to and from summer or winter time.

1. To display the time in the...

24-hour notation
12-hour notation

Then press the  button...

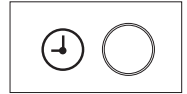
Once
Twice



2. Press the (−) and (+) buttons to set the hour.



3. Press the  button.



4. Press the (−) and (+) buttons to set the minute.



5. Press the  button.



WHAT TO DO IF YOU ARE IN DOUBT OR HAVE A PROBLEM

If you have any of the problems listed below try the solutions given.


This is normal.

- Condensation inside the oven.
- Air flow around the door and outer casing.
- Light reflection around the door and outer casing.
- Steam escaping from around the door or vents.

The oven does not start when you press the button.

- Is the door completely closed?

The food is not cooked at all.

- Have you set the timer correctly and/or pressed the  button?
- Is the door closed?
- Have you overloaded the electric circuit and caused a fuse to blow or a breaker to be triggered?

The food is either overcooked or undercooked.


- Was the appropriate cooking length set for the type of food?
- Was an appropriate power level chosen?

Sparking and cracking occur inside the oven (arcing).

- Have you used a dish with metal trimmings?
- Have you left a fork or other metal utensil inside the oven?
- Is aluminum foil too close to the inside walls?

The oven causes interference with radios or televisions.

- Slight interference may be observed on televisions or radios when the oven is operating. This is normal. To solve this problem, install the oven away from televisions, radios and aerials.
- If interference is detected by the oven's microprocessor, the display may be reset. To solve this problem, disconnect the power plug and reconnect it. Reset the time.

 If the above guidelines do not enable you to solve the problem, contact your local dealer or SAMSUNG after-sales service.


COOKING/REHEATING

The following procedure explains how to cook or reheat food.

Always check your cooking settings before leaving the oven unattended.

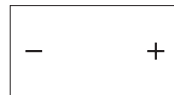
First, place the food in the centre of the turntable. Then, close the door.

1. Press the  button.

Result : The 800 W (maximum cooking power) indications are displayed:
Select the appropriate power level by pressing the  button again until the corresponding wattage is displayed. Refer to the power level table.

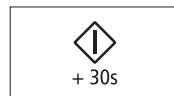


2. Set the cooking time by pressing the (—) and (+) buttons as required.




3. Press the  button.

Result : The oven light comes on and the turntable starts rotating.
Cooking starts and when it has finished the oven beeps four times.




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


 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. The oven starts immediately.

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/KEEP WARM	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.


Press the **+30s** button once for each 30 seconds to be added.

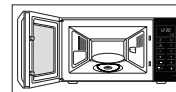



STOPPING THE COOKING

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

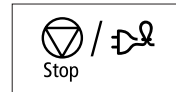
1. To stop temporarily;
Open the door and press  again.

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



2. To stop completely;
Press the  button.


Result : The cooking stops.

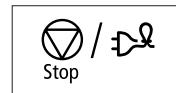


-  You can cancel any setting before you start cooking by simply pressing **Stop** ().

SETTING THE ENERGY SAVE MODE

The oven has an energy save mode. This facility saves electricity when the oven is not in use.

- The oven will default to energy save mode after 5 minutes if not used. While in energy save mode, the display is blank and the oven cannot be used.
- To remove energy save mode, open the door and then the display shows "0". The oven is ready for use.
- If you want to use energy save mode, press the **Energy Save** ( button.



USING THE AUTO REHEAT FEATURE

The auto reheat feature has three 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 the (←) and (→) buttons. First, place the food in the centre of the turntable and close the door.

1. Select the type of food that you are cooking by pressing the **Auto Reheat** (🍲) button once or more times.




2. Select the size of the serving by pressing (←) and (→) buttons. (Refer to the table on the side.)



3. Press the (◊) button.




- Result :** Cooking starts. When it has finished.
- 1) The oven beeps four 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.

AUTO REHEAT SETTINGS

The following table presents the various auto reheat programmes, quantities, standing times and appropriate recommendations.

Code/Food	Serving size (g)	Standing time (min.)	Recommendations
1. Ready meal (Chilled) 	300-350 400-450	3	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).
2. Ready meal (Frozen) 	300-350 400-450	4	Take frozen ready meal and check if dish is suitable for microwave. Pierce film of ready meal. Put the frozen ready meal in the centre. This programme is suitable for frozen ready meals consisting of 3 components (e.g. meat with sauce, vegetables and a side dish like potatoes, rice or pasta).
3. Drinks (Coffee, milk, tea, water, roomtemperature) 	150 ml (1 cup) 250 ml (1 mug)	1-2	Pour into a ceramic cup (150 ml) or mug (250 ml) and place in the centre of turntable. Reheat uncovered. Stir carefully before and after standing time. Be careful while taking the cups out (see safety instructions for liquids).


USING THE AUTO POWER DEFROST FEATURE

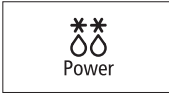
The auto rapid defrost feature enables you to defrost meat, poultry or fish. The defrost time and power level are set automatically.

 Use only dishes that are microwave-safe.

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

1. Press the **Auto Power Defrost** (**) button one or more times. (Refer to the table on the side)

Result : The following indication is displayed : 




2. Select the food weight by pressing (−) and (+) buttons.
It is possible to set up to a maximum of 1500 g.




3. Press the  button.

Result :

- Defrosting begins.
- The oven beeps half way through defrosting to remind you to turn the food over.
- Press  button again to finish defrosting.






 You can also defrost food manually. To do so, select the microwave cooking/reheating function with a power level of 180 W. Refer to the section entitled "Cooking/Reheating" on page 12 for further details.

AUTO POWER DEFROST SETTINGS

The following table presents the Power Defrost programme, quantities, standing times and appropriate recommendations.

Remove all kind of package material before defrosting. Place meat, poultry and fish on a flat ceramic plate.

Food	Serving size (g)	Standing time (min.)	Recommendations
 Meat	200-1500	15-60	Shield the edges with aluminium foil. Turn the pieces over, when the oven beeps. This programme is suitable for meat such as steaks, chops or minced meat, chicken pieces, whole chicken or fish fillets.
 Poultry			
 Fish			


USING THE SENSOR COOK FEATURE

The Five Sensor Cook features include/provide pre-programmed cooking times.

You do not need to set either the cooking times or the power level. You can adjust the Sensor Cook category by pressing the (—) and (+) buttons.

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

 Use only dishes that are microwave-safe.

1. Select the type of food that you are cooking by pressing the **Sensor Cook** () button one or more times. (Refer to the table on the side).




2. Press the  button.

Result : Cooking starts. When it has finished.

- 1) The oven beeps four 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.

SENSOR COOK SETTINGS

The following table presents 5 Sensor Cook Programmes. It contains its recommended weight range per item, standing times after cooking and appropriate recommendations. After you start the programme cooking times and power levels are calculated automatically. The cooking process is controlled by the sensor system for your convenience.

Use oven gloves while taking out!

Code/Food	Serving size	Standing time (min.)	Recommendations
1. Broccoli Florets 	200-500 g	1-2	Wash and clean broccoli and prepare florets. Put them evenly into a glass bowl with lid. Add 30-45 ml water (2-3 tablespoons). Put bowl in the centre of turntable. Cook covered. Stir after cooking. This programme is suitable for broccoli as well as courgette, egg plant, pumpkin or pepper.
2. Sliced Carrots 	200-500 g	1-2	Wash and clean carrots and cut into round slices evenly. Put them into a glass bowl with lid. Add 30-45 ml water (2-3 tablespoons). Put bowl in the centre of turntable. Cook covered. Stir after cooking. This programme is suitable for carrots as well as cauliflower florets or turnip cabbage.
3. Peeled Potatoes 	200-800 g	2-3	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 tablespoons) water. Put bowl in the centre of turntable. Cook covered.
4. Soup / Sauce (Chilled) 	250-500 g	2-3	Pour into a deep ceramic plate or bowl and cover with plastic lid during heating. Put soup in the centre of turntable. Stir carefully before and after standing time.
5. Frozen Soup (-18 °C) 	250-500 g	2-3	Pierce film of frozen soup and put in the centre of turntable. Put soup in the centre of turntable. Stir carefully before and after standing time.

Auto Sensor Cooking Instructions

The Auto Sensor allows you to cook your food automatically by detecting the amount of gases generated from the food while cooking.

- When cooking food, many kinds of gases are generated. The Auto Sensor determines the proper time and power level by detecting these gases from the food, eliminating the need to set the cooking time and power level.
- When you cover a container with its lid or plastic wrap during Sensor Cooking, the Auto Sensor will detect the gases generated after the container has been saturated with steam.
- Shortly before cooking ends, the remaining cooking time will begin its count down. This will be a good time for you to rotate or stir the food for even cooking if it is necessary.
- Before auto sensor cooking food may be seasoned with herbs, spices or browning sauces. A word of caution though, salt or sugar may cause burn spots on food so these ingredients should be added after cooking.
- The More/Less function pad is used to increase or decrease cooking time. You should use this function to adjust the degree of cooking to suit your personal taste. Utensils & Cover For Sensor Cooking.
- To obtain good cooking results with this function, follow the directions for selecting appropriate containers and covers in the charts in this book.
- Always use microwave-safe containers and cover them with their lids or with plastic wrap. When using plastic wrap, turn back one corner to allow steam to escape at the proper rate.
- Always cover with the lid intended for the utensil being used. If the utensil does not have its own lid, use plastic wrap.
- Fill containers at least half full.
- Foods that require stirring or rotating should be stirred or turned toward the end of the Sensor Cook cycle, after the time has started to count down on the display.

Utensils & Cover For Sensor Cooking

- To obtain good cooking results with this function, follow the directions for selecting appropriate containers and covers in the charts in this book.
- Always use microwave-safe containers and cover them with their lids or with plastic wrap. When using plastic wrap, turn back one corner to allow steam to escape at the proper rate.
- Always cover with the lid intended for the utensil being used. If the utensil does not have its own lid, use plastic wrap.
- Fill containers at least half full.
- Foods that require stirring or rotating should be stirred or turned toward the end of the Sensor Cook cycle, after the time has started to count down on the display.

Important

- After installing the oven and plugging into an electrical outlet, do not unplug the power cord. The gas sensor needs time to stabilize in order to cook satisfactorily.
 - It is not advisable to use the auto sensor cooking feature on a continuous cooking operation, i.e. one cooking operation immediately after another.
 - Install the oven in a well ventilated location for proper cooling and airflow and to ensure the sensor will operate accurately.
 - To avoid poor results, do not use the Auto sensor when the room ambient temperature is too high or too low.
 - Do not use volatile detergent to clean your oven. Gas resulting from this detergent may affect the sensor.
 - Avoid placing the oven near high moisture or gas emitting appliances, since this will interfere with the proper performance of the Auto Sensor.
 - Always keep the inside of the oven clean. Wipe all spills with a damp cloth.
- This oven is designed for household use only.

USING THE POWER STEAM FUNCTION

With the power steam feature, the cooking time is set automatically. You can adjust the number of servings by pressing the (←) and (→) buttons. Use the plastic steam cooker when using power steam function. First, place the plastic steam cooker in the centre of the turntable and close the door.

1. Select the type of food that you are cooking by pressing the **Power Steam** (🍲) button one or more times.



2. Select the size of the serving by pressing the (←) and (→) buttons. (Refer to the table on the side)



3. Press the (⬇️) button.

Result :

Cooking starts. When it has finished.

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



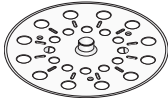
- 🔪 Use only recipients that are microwave-safe.

Power steam cooking hint

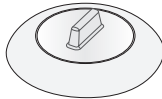
Components of Power Steam Cooker



Bowl

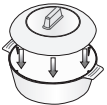


Insert tray

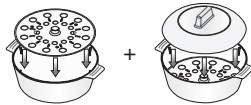


Lid

Handling of Power Steam Cooker






Bowl + lid




Bowl with insert tray+ lid

POWER STEAM SETTINGS

The following table presents the 4 Auto Programs of the Power Steam function, quantities, standing times and appropriate recommendations. Use the power steam cooker when using power steam function.

Code/Food	Serving size (g)	Standing time (min.)	Handling	Recommendations
1. White Rice 	150-200 250-300	4-5	Bowl + lid	Use parboiled white rice. Put rice into the steam cooker. Add double quantity of cold water. Cover with lid. After cooking, stir before standing time. After cooking remove moisture in the cavity by using kitchen paper.
2. Peeled potatoes 	100-150 200-250 300-350 400-450 500-550	2-3	Bowl + lid	Weigh the potatoes after peeling, washing and cutting into similar size. Put them into the steam cooker. Add 15-30 ml (1-2 tablespoons) water when steaming 100-350 g, add 45-60 ml (3-4 tablespoons) for 400-550 g. Cover with lid.
3. Fresh vegetables 	100-150 200-250 300-350 400-450	1-2	Bowl with insert tray+ lid	Weigh the vegetables after washing, cleaning and cutting into similar size. Put tray into the bowl of steam cooker. Distribute vegetables on the tray. Add 30 ml (2 tablespoons) water, when steaming 100-350 g, add 45 ml (3 tablespoons) for 400-450 g. Cover with lid.



Code/Food	Serving size (g)	Standing time (min.)	Handling	Recommendations
4. Fruit Compote 	100-150 200-250 300-350 400-450	2-3	Bowl + lid	Weigh the fresh fruits after peeling and washing and cut into similar slices or cubes. Put into steam cooker. When steaming 100-350 g fruits add 15-30 ml (1-2 tbsp.) water, for 400-450 g add 45ml (3 tbsp.). Additionally add 1-2 tbsp. sugar. Cover with lid. After steaming stir carefully. This programme is suitable for apples, pears, plums, apricots, mangoes or pineapple.

USING THE DEODORIZATION FEATURE

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

Press the **Deodorization**  button after you have finished cleaning. you will hear four beeps



-  The deodorization time has been specified as 5 minutes. It increases by 30 seconds whenever the **+30s** button is pressed.
-  The maximum deodorization time is 15 minutes.

USING THE MEMORY FEATURE

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.

Storing the settings.

1. To programme the...

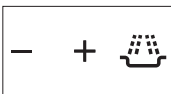
First setting
Second setting

Then press the  button

Once (Display is P1)
Twice (Display is P2)



2. Set your cooking programme as usual (cooking time and power level) see if necessary.



3. Press the button.

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



Using the settings.

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

1. To select the...

First setting
Second setting

Then press the  button

Once (Display is P1)
Twice (Display is P2)



2. Press the button.

Result : The food is cooked as requested.



SWITCHING THE BEEPER OFF

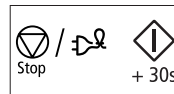
You can switch the beeper off whenever you want.

1. Press the and buttons at the same time.

Result :

- The following indication is displayed.

OFF



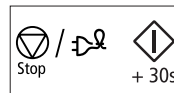
- The oven will not beep each time you press a button.

2. To switch the beeper back on, press the and buttons again at the same time.

Result :

- The following indication is displayed.

On



- The oven operates with the beeper on again.

USING THE CHILD LOCK FEATURE

Your microwave oven is fitted with a special child lock 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 one second.

Result :

- The oven is locked (no functions can be selected).

L



- The display shows "L".

2. To unlock the oven, press the **Child Lock** () button for one second.

Result : The oven can be used normally.



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.

Cookware	Microwave-safe	Comments
Aluminum foil	✓ X	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.
Browning plate	✓	Do not preheat for more than eight minutes.
China and earthenware	✓	Porcelain, pottery, glazed earthenware and bone china are usually suitable, unless decorated with a metal trim.
Disposable polyester cardboard dishes	✓	Some frozen foods are packaged in these dishes.
Fast-food packaging		
• 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.
Glassware		
• Oven-to-table ware	✓	Can be used, unless decorated with a metal trim.

Cookware	Microwave-safe	Comments
• Fine glassware	✓	Can be used to warm foods or liquids. Delicate glass may break or crack if heated suddenly.
• Glass jars	✓	Must remove the lid. Suitable for warming only.
Metal		
• Dishes	X	May cause arcing or fire.
• Freezer bag twist ties	X	
Paper		
• Plates, cups, napkins and kitchen paper	✓	For short cooking times and warming. Also to absorb excess moisture.
• Recycled paper	X	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	✓	Can be used to retain moisture and prevent spattering.

✓ : Recommended


✓X : Use caution


X : Unsafe

CLEANING YOUR MICROWAVE OVEN


The following parts of your microwave oven should be cleaned regularly to prevent grease and food particles from building up:

- Inside and outside surfaces
- Door and door seals
- Turntable and roller rings

 Always ensure that the door seals are clean and the door closes properly.

 Failure to maintain the oven in a clean condition could lead to deterioration of the surface that could adversely affect the of the appliance and possibly result in a hazardous situation.

1. Clean the outside surfaces with a soft cloth and warm, soapy water. Rinse and dry.
2. Remove any splashes or stains on the inside surfaces or on the roller ring with a soapy cloth. Rinse and dry.
3. To loosen hardened food particles and remove smells, place a cup of diluted lemon juice on the turntable and heat for ten minutes at maximum power.
4. Wash the dishwasher-safe plate whenever necessary.

 **Do not** spill water in the vents. **Never** use any abrasive products or chemical solvents. Take particular care when cleaning the door seals to ensure that no particles:

- Accumulate
- Prevent the door from closing correctly


STORING AND REPAIRING YOUR MICROWAVE OVEN

A few simple precautions should be taken when storing or having your microwave oven serviced.


The oven must not be used if the door or door seals are damaged:

- Broken hinge
- Deteriorated seals
- Distorted or bent oven casing

Only a qualified microwave service technician should perform repair.

 **Never** remove the outer casing from the oven. If the oven is faulty and needs servicing or you are in doubt about its condition:

- Unplug it from the wall socket
- Contact the nearest after-sales service centre

 If you wish to store your oven away temporarily, choose a dry, dust-free place.

Reason : Dust and damp may adversely affect the working parts in the oven.

 This microwave oven is not intended for commercial use.

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.

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.


 The wires in this mains lead 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.


Connect the green and yellow wire to the terminal in the plug marked with the letter E or the earth symbol (\perp) or coloured green or green-and-yellow.

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


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

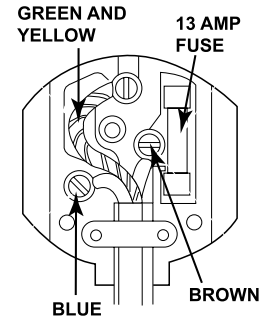
The manufacturer of this oven will not accept any liability for damage to persons or material for non observance of these requirements.

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.

 **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.



COOKING INSTRUCTIONS ON FOOD PACKAGING

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

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 GE82N / GE82NT (850 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 GE82N / GE82NT (E category).

-  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.

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	MS89F / ME89F
Power source	230 V ~ 50 Hz
Power consumption Microwave	1150 W
Output power	100 W / 800 W (IEC-705) <ul style="list-style-type: none"> • 240 V : 800 W • 230 V : 750 W
Operating frequency	2450 MHz
Magnetron	OM75S(31)
Cooling method	Cooling fan motor
Dimensions (W x H x D) Outside Oven cavity	489 x 275 x 372 mm 330 x 211 x 324 mm
Volume	23 liter
Weight Net	12.0 kg approx

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

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

This marking 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.



QUESTIONS OR COMMENTS

COUNTRY	CALL	OR VISIT US ONLINE AT
ALBANIA	42 27 5755	www.samsung.com
BOSNIA	05 133 1999	
BULGARIA	07001 33 11	
CROATIA	062 - SAMSUNG (062-726-7864)	
CZECH	800 - SAMSUNG (800-726786)	
HUNGARY	06-80-SAMSUNG(726-7864)	
KOSOVO	+381 0113216899	
MACEDONIA	023 207 777	
MONTENEGRO	020 405 888	
POLAND	0 801 1SAMSUNG(172678) 022-607-93-33	
RUMANIA	08010 SAMSUNG (08010 726 7864) only from landline, local network Romtelecom - local tariff / 021 206 01 10 for landline and mobile, normal tariff	
SERBIA	0700 Samsung (0700 726 7864)	
SLOVAKIA	0800-SAMSUNG(726-7864)	
LITHUANIA	8-800-77777	
LATVIA	8000-7267	
ESTONIA	800-7267	