



Built-in Microwave Oven

MOV28S2M

Installation and Operating Manual

Read the instructions carefully before using the product.
Keep this manual for future reference.

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Important Notes

Dear Customer

Thank you for choosing our product. This appliance is simple to use; however please read this handbook carefully before installing and operating it. Herein, you will find the correct method of installation and tips for best use and maintenance of the product.

- This appliance is designed to be operated by an adult to use at home. Do not allow children to play with it. Children need to be supervised when the product is in operation so that they do not go near the oven and touch the hot surfaces.
- This appliance is only intended for domestic use.
- This oven is designed for built-in use only. It is not intended for counter top or use in a cupboard.
- This product can be installed in a 600mm wide wall mounted cabinet with at least 550mm deep and 850mm off the floor.
- Before maintenance or cleaning of the product, disconnect the appliance from the mains and wait for the oven to cool down first.
- Do not attempt to operate the microwave oven with door opened. This can result in harmful exposure to microwave energy. It is important not to break or tamper with the safety interlocks.
- Do not place any object between the oven front face and the door or allow soil or cleaner residue to accumulate on the sealing surfaces.
- Liquids and other food must not be heated in sealed containers since they are liable to explode.
- It is hazardous for anyone other than the authorised personnel to carry out any service or repair work that involve the removal of the cover which protects against the exposure of microwave energy.
- Keep the appliance and its cord out of reach of children.
- Only use utensils that are suitable for use in microwave ovens.
- The oven should be cleaned regularly and food deposits should be removed.
- When heating food in plastic or paper containers, keep an eye at the oven due to the possibility of ignition.
- If smoke is emitted, switch off or unplug the appliance and keep the door closed.
- Do not overcook food.
- Do not use the oven cavity for storage purposes. Do not store items such as bread, cookies etc inside the oven.
- Remove wire twist ties and metal handles from paper or plastic containers before placing them into the oven and start cooking.
- Install and locate this oven only in accordance to the installation instructions provided.
- Eggs in their shell and whole hard-boiled eggs should not be heated in microwave ovens since they may explode, even after the heating has ended.
- If the supply cord is damaged, it must be replaced by the manufacturer, authorised service agent or similar qualified personnel to avoid a hazard.
- Do not store or use this appliance outdoors.
- Do not use this appliance near water, in a wet basement or near a swimming pool.
- The temperature of accessible surfaces may be high during oven operation. The surfaces are liable to get hot when it is in use. Keep power cord away from heated surface, and do not cover any vents on the oven.
- Do not let power cord hang over edge of tables or counter.

- Failure to maintain the oven in a clean condition could lead to deterioration of the surface that could adversely affect the lifespan of the appliance and possibly result in a hazardous condition.
- The contents of feeding bottles and baby food jars shall be stirred or shaken, the food temperature should be checked before serving to avoid burns.
- Microwave heating of beverages can result in delayed eruptive boiling, therefore care must be taken while handling the container.
- 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 regarding the use of the appliance by a person who is responsible of their safety.
- The appliance is not intended to be operated by means of an external timer or separate remote control system.
- Steam cleaner is not to be used.
- The microwave oven is intended to be used for heating food and beverages. Drying of food or clothes and heating of warming pads, slippers, sponges, damn clothes and similar may lead to risk of injury, ignition or fire.
- For any repairs, always contact authorised Customer Service Centre and ask for original spare parts. Repairs by unqualified people will lead to damage and will void the warranty.

Warning : If the door seal is damaged, the oven must not be operated until a good condition door seal is replaced by an authorised personnel.

Power Connection:

THE APPLIANCE MUST BE CONNECTED IN ACCORDANCE WITH CURRENT ELECTRICAL RULES AND REGULATIONS. THIS APPLIANCE IS FITTED WITH A PLUG AND MUST BE PROPERLY EARTHED. Installation is to be carried out by an qualified electrician.

Before connecting to the mains, make sure that:

- The mains voltage must correspond to the voltage specified in the data label.
- The supply system is regularly earthed, according to the regulations.
- The isolation switch with a contact gap of at least 3mm can easily be reached after the oven is installed.
- After connection to the mains, check that the supply cable does not overheat.
- Never use reductions, shunts, adaptors that can cause overheating or burning.
- Do not trap or bend the power cable.

The manufacture shall not liable for any direct or indirect damage caused by faulty installation. The installer must ensure that the product installation and connection complies with the local and general regulation in force.

DANGER: Electric Shock Hazard

Touching some of the internal components can cause serious personal injury or death. Do not disassemble the appliance.

Improper earthing can result in electric shock. In event of an electrical short circuit, earthing reduces the risk of electric shock by providing an escape wire for the current. This appliance is equipped with a cord having an earth wire with an earthing plug. Therefore the plug must be connected to an outlet that is properly earthed.

If it is necessary to use an extension cord, qualified electrician is to use only a 3-wire extension cord. A short power supply cord is provided to reduce the risks of becoming entangled in or tripping over a long cord.

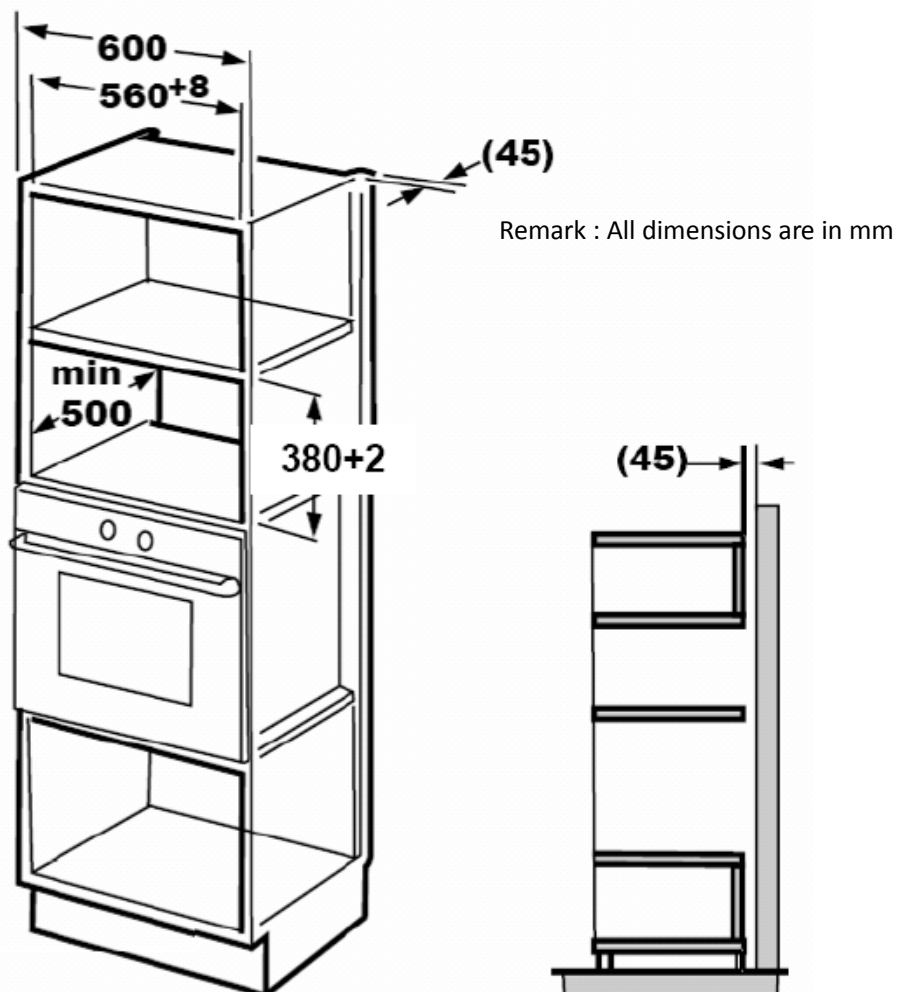
If a long cord set or extension cord is used,

- The marked electrical rating of the cord set or extension cord should be at least as great as the electrical rating of the appliance
- The extension cord must be an earthed type 3 wire cord
- The long cord should be arranged so that it will not drape over the counter top or tabletop where it can be pulled by children or tripped over unintentionally.

Installation Instruction

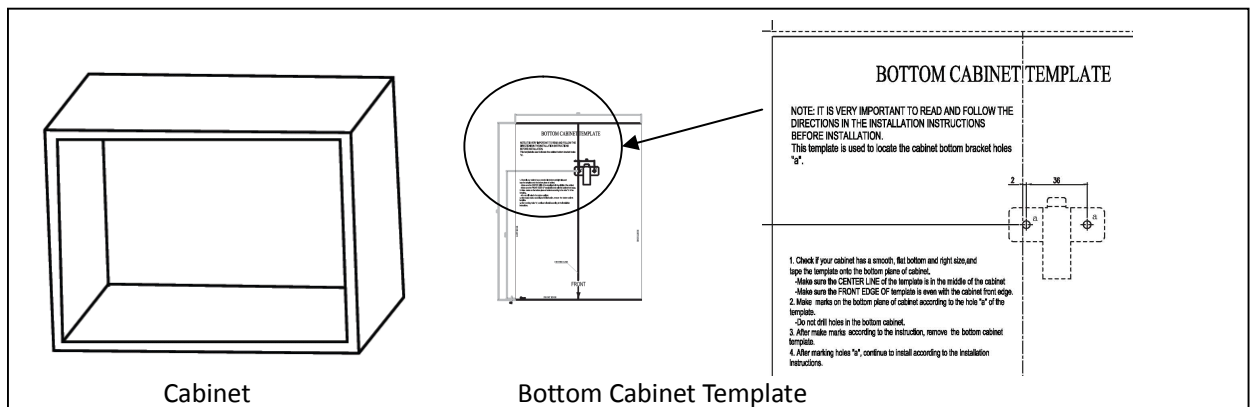
Warning : The fitted cabinet must not have a back wall behind the appliance. Do not cover ventilation slots and suction holes.

Built in cabinet requirements :

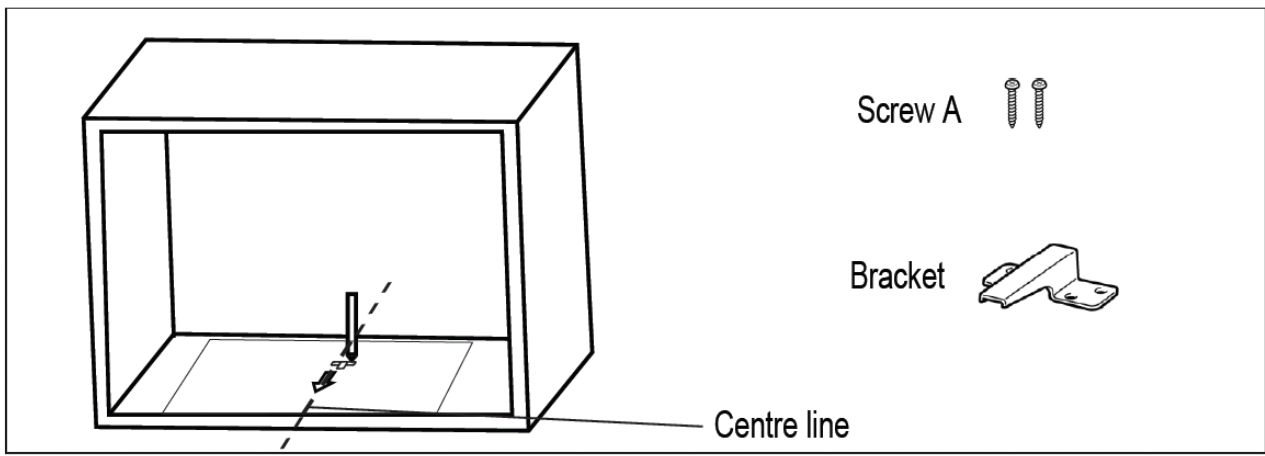


Wall mounted cabinet :

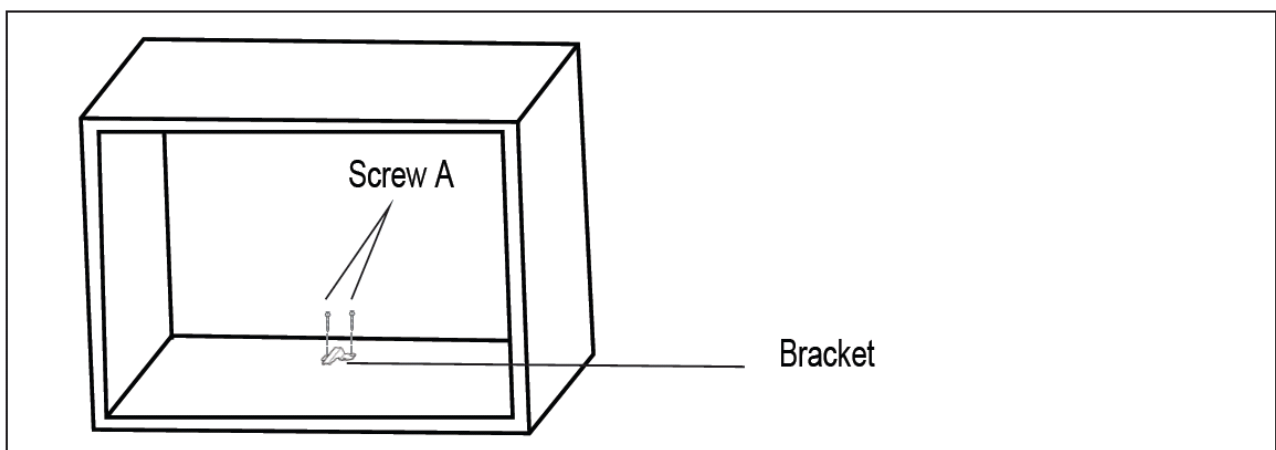
1. Read the instructions written on the *Bottom Cabinet Template*. Put the template at the bottom panel of the cabinet.



2. Mark the bottom panel with position "a" according to the template.

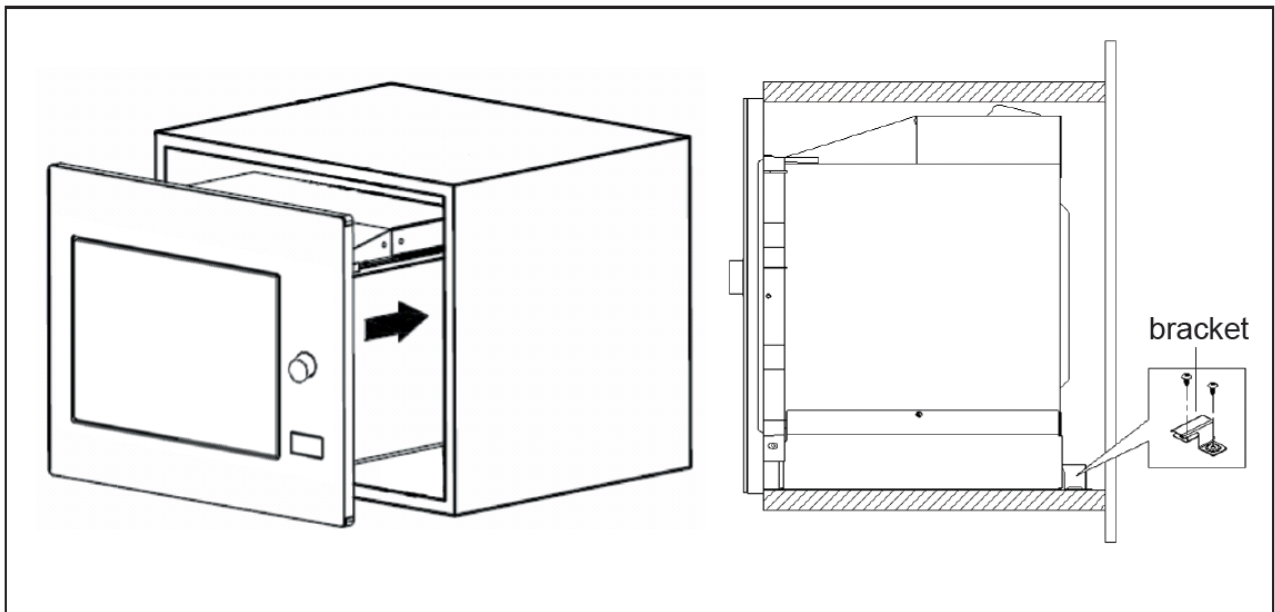


3. Remove the template and fix the bracket with screw A.

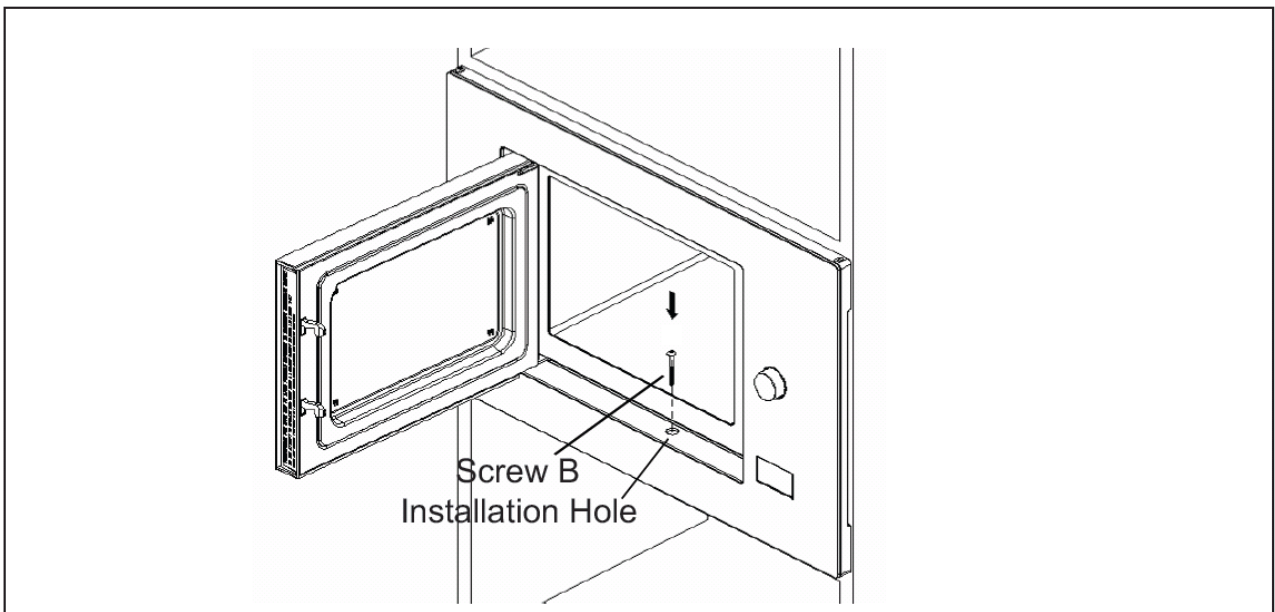


Installing the microwave oven

Put the microwave oven to the compartment. Make sure the back of the oven is locked on the bracket. Do not trap or kink the power cord.



Open the door, fix the oven to the cabinet with Screw B, as shown in the diagram below :



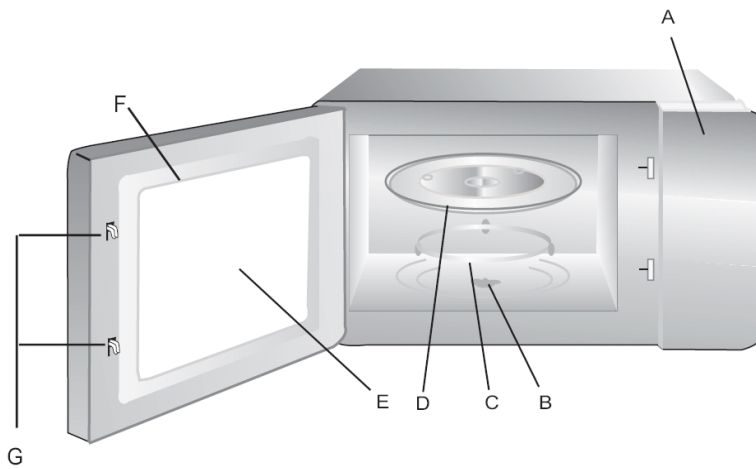
Before using the oven, we suggest to:

- Remove the special film covering the oven door glass (if there is any)
- Carefully clean the internal cavity of the oven with soapy water and rinse it.

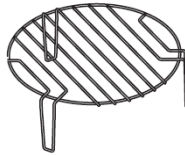
IMPORTANT!

When the oven is in operation, hot surfaces might occur at the oven door. Take note of the "Warning! Hot Surface" sign. Make sure the children do not go near the oven when it is in use.

Oven Parts & Accessories

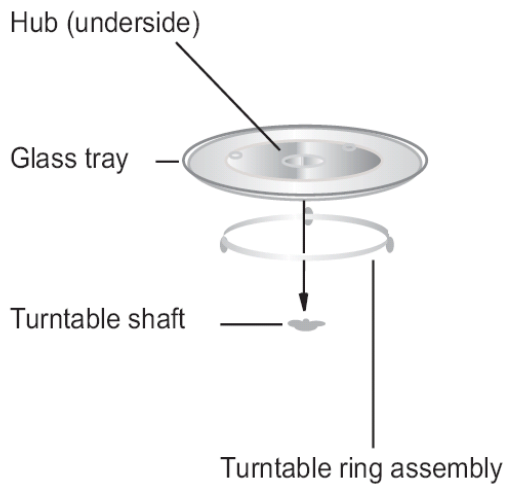


A	Control panel
B	Turntable shaft
C	Turntable ring assembly
D	Glass tray
E	Observation window
F	Door assembly
G	Safety interlock system



Grill Rack(Only be used in grill function and be placed on the glass tray)

Turntable Assembly





Note :

- Never place the glass tray upside down. The glass tray should never be restricted from turning.
- Both glass tray and turntable ring assembly must always be used during oven operation.
- All food and containers of food are always to be placed on the glass tray during oven operation.
- If the glass tray or turntable ring assembly breaks, stop using the product and contact the authorised customer service centre.

Operating Instructions :

Local Time / Clock Setting


After the microwave is power ON, the LED display shows “0.00”, buzzer will ring once.


- Press “Clock / Kitchen Timer” once to select the clock function, the hour digit will flash.
- Turn “” to adjust the hour value, the input should be between 0 and 23.
- Press “Clock / Kitchen Timer” again, the minute digit will flash.
- Turn “” to adjust the minute value, the input should be between 0 and 59.
- Press “Clock / Kitchen Timer” again to finish the clock setting. “:” will flash, and the time set will light up on the display.

Remark : if the clock is not set, the appliance would not function even the power is ON. During the setting of clock, if user presses “Stop / Clear”, the oven will go back to the previous status.



Microwave Cooking

Press “Microwave / Grill / Combi” once and the LED display shows “P100”. To choose the cooking power, user can

either press several times of “Microwave / Grill / Combi” or turn “”. After the desired cooking power is selected, press “Start / +30sec / Confirm” to confirm selection. Cooking options “P100”, “P80”, “P50”, “P30”,

“P10”, “G-1”, “C-1”, and “C-2” are available in sequence. Turn “” to set cooking time from 0:05 to 95:00. Press “Start / +30sec / Confirm” again to start cooking.

For example, to select 80% of microwave cooking power for 20 minutes :

- Press “Microwave / Grill / Combi” once, LED display shows “P100”.
- Press “Microwave / Grill / Combi” once again or turn “” to choose 80% microwave power.
- Press “Start / +30sec / Confirm” to confirm selection and LED display shows “P80”.
- Turn “” to adjust cooking time until display shows “20:00”.
- Press “Start / +30sec / Confirm” again to start cooking.



Note Time increment scale :

0 – 1 min	: 5 sec
1 – 5 min	: 10 sec
5 – 10 min	: 30 sec
10 – 30 min	: 1 min
30 – 95 min	: 5 min



Microwave Cooking power sequence :

<u>Order</u>	<u>Display</u>	<u>Microwave Cooking Power</u>
1	P100	100%
2	P80	80%
3	P50	50%
4	P30	30%
5	P10	10%

Grill or Combination Cooking

Press “Microwave / Grill / Combi” once and the LED display shows “P100”. To choose the cooking power, user can either press several times of “Microwave / Grill / Combi” or turn “”. After the desired cooking power is selected, press “Start / +30sec / Confirm” to confirm selection. Cooking options “P100”, “P80”, “P50”, “P30”, “P10”, “G-1”, “C-1”, and “C-2” are available in sequence. Turn “” to set cooking time from 0:05 to 95:00. Press “Start / +30sec / Confirm” again to start cooking.

For example, to select a combination cooking of 55% microwave cooking power and 45% grill power (C-1) for 10 minutes :

- Press “Microwave / Grill / Combi” once, LED display shows “P100”.
- Press “Microwave / Grill / Combi” several times again or turn “” to choose combi.1 mode.
- Press “Start / +30sec / Confirm” to confirm selection and LED display shows “C-1”.
- Turn “” to adjust cooking time until display shows “10:00”.
- Press “Start / +30sec / Confirm” again to start cooking.


Note

The microwave is programmed to buzzer at half of the grilling duration. This is allow the user to turn the food over for better grilling effect. Open the door, flip the food over, close the door and press “Start / +30sec / Confirm” again to continue cooking.


Grill / Combination Cooking power sequence :

<u>Order</u>	<u>Display</u>	<u>Microwave Cooking</u>	<u>Grill Power</u>
1	G-1	0%	100%
2	C-1	55%	45%
3	C-2	34%	66%


Quick Start

- At standby mode, press “Start / +30sec / Confirm” to start a 30 seconds cooking at 100% microwave power. Each added press will increase 30 seconds cooking time up to 95 minutes.
- During microwave, grill, combination cooking or time defrost state, each press of “Start / +30sec / Confirm” will have an increment of 30 seconds cooking time.
- At standby mode, turn “” anticlockwise to set cooking time with 100% microwave power, then press “Start / +30sec / Confirm” to start cooking.


Defrost By Weight

- Press “**Weight / Time Defrost**” once, the LED display will show “dEF1”.
- Turn “” to select the weight of food from 100 to 2000g.
- Press “**Start / +30sec / Confirm**” to start defrosting.

Defrost By Time

- Press “**Weight / Time Defrost**” twice, the LED display will show “dEF2”.
- Turn “” to select desired defrost time. Max time allowed is 95 minutes.
- Press “**Start / +30sec / Confirm**” to start defrosting. The default defrosting power is P30, and it cannot be changed.



Timer

- Press “**Clock / Kitchen Timer**” twice, the LED display will show “00:00”.
- Turn “” to adjust the desired timer value, the max cooking time limit is 95 minutes.
- Press “**Start / +30sec / Confirm**” to confirm selection.
- When the time elapsed, buzzer will ring 5 times. If the clock is set to 24 hour system, LED will show the current time.



Note

Timer is different from local time setting.

Automatic Menu

- Turn “” clockwise to choose automatic menu from “A-1” to “A-10”.
- Press “**Start / +30sec / Confirm**” to confirm selection.
- Turn “” to choose the default weight as programmed.
- Press “**Start / +30sec / Confirm**” again to start cooking.

For example, to cook 350g of fish :

- Turn “” clockwise to choose menu A-4.
- Press “**Start / +30sec / Confirm**” to confirm selection.
- Turn “” to select the weight until 350g is shown.
- Press “**Start / +30sec / Confirm**” to start cooking.

<u>Menu</u>	<u>Food</u>
A-1	Pizza
A-2	Potato
A-3	Meat
A-4	Fish
A-5	Vegetable
A-6	Beverage
A-7	Pasta
A-8	Popcorn
A-9	Chicken
A-10	Reheat


Automatic Menu Chart



Menu	Food Quantity	Programmed Weight
A-1 Pizza	200g	200
	400g	400
A-2 Potato	200g	200
	400g	400
	600g	600
A-3 Meat	250g	250
	350g	350
	450g	450
A-4 Fish	250g	250
	350g	350
	450g	450
A-5 Vegetable	200g	200
	300g	300
	400g	400
A-6 Beverage	1 cup (120ml)	1
	2 cups (240ml)	2
	3 cups (360ml)	3
A-7 Pasta	50g (with 450ml cold water)	50
	100g (with 800ml cold water)	100
A-8 Popcorn	50g	50
	100g	100
A-9 Chicken	400g	400
	800g	800
	1200g	1200
A-10 Reheat	200g	200
	400g	400
	600g	600

Multi Selection Cooking

This appliance allows up to two selections to be programmed for cooking. If one of the selections is to defrost the food, defrosting is to be programmed as the first selection.

For example, to defrost the food for 5 minutes and then cook it with 80% microwave power for 7 minutes :

- Press “**Weight / Time Defrost**” twice, the LED display will show “dEF2”.
- Turn “” to adjust until display shows “5:00”.
- Press “**Microwave / Grill / Combi**” once, LED display shows “P100”.



- Press **"Microwave / Grill / Combi"** once again or turn  to choose 80% microwave power.
- Press **"Start / +30sec / Confirm"** to confirm selection and LED display shows "P80".
- Turn  to adjust cooking time until display shows "7:00".
- Press **"Start / +30sec / Confirm"** again to start cooking. Buzzer ring once and defrosting starts for 5 minutes. Buzzer will ring once again after the first selection has finished and now the second selection, P80, starts. After finished cooking at 80% microwave power for 7 minutes, buzzer will ring 5 times.

Real Time Display

- During microwave, grill and combination cooking state, press **"Microwave / Grill / Combi"** once, the current cooking power will be shown at the LED display for 3 seconds. After that, the display will go back to its former state.
- During cooking, press **"Clock / Kitchen Timer"** once to look at local time. Local time will be displayed for 3 seconds.

Child Safe Lock

To lock the oven

- In standby mode, press and hold **"Stop / Clear"** for 3 seconds. A long beep will present to denote it is now entered the child safe lock mode.  will be shown at the display. If the local time has been set, local time will be shown on LED too. Otherwise, it will be only 

To unlock the oven

- The oven is locked, press and hold **"Stop / Clear"** for 3 seconds. There will be a long beep to denote that the oven is now unlocked.

Cleaning and Maintenance

Caution: Prior to cleaning or maintenance, always disconnect the power supply.

Make sure a steamer cleaner is not used.

CLEANING OF STAINLESS STEEL

In order to have your oven retain its new appearance; regular cleaning and care should be performed to protect the s/steel finishes.

Never use gritty or abrasive sponges. Stubborn stains can be removed by soaking in hot water, standard stains can be removed by applying a clean cloth soaked in soapy water before spillage becomes cold or dries up. Acidic materials like vinegar and citric juices etc can damage the most resistant surfaces. If a spill occurs wipe it immediately.

Note : Use only damp cloth to clean the stainless steel panel with printed wording. Stainless steel cleaners and similar products may remove the print.

OVEN CLEANING

Oven spillages should be cleaned straight away. Leaving it will cause burning and smoking inside the chamber of oven the next time oven is used. A non-caustic cleaner is recommended to clean the chamber of the oven. Do not use abrasive scourers, sponges, cleaning products. Wipe out oven regularly and properly while oven is still warm with warm soapy water and a soft cloth.

The door frame and seal and neighbouring parts must be cleaned carefully when they are dirty.

Do not use sharp metal scrapers to clean the oven door glass since they can scratch the surface, and may result in glass shattering.

Tip for cleaning the chamber : Place half a lemon in a bowl, add 300ml of water and heat them up at 100% microwave power for 10 minutes. Wipe the chamber using a soft dry cloth.

Warning:

It is hazardous for anyone other than the authorised personnel to carry out any service or repair work that involve the removal of the cover which protects against the exposure of microwave energy.

Utensils that is safe in a microwave

There are some non metallic utensils which are not suitable to be used in a microwave. Below is a simple way to check if a utensil can be used in a microwave :

- Fill a microwave safe container with 250ml of water. Put the utensil-under-test in the water and place them into a microwave.
- Start cooking at maximum power for 1 minute.
- Carefully feel the utensil-under-test. If the empty utensil is warm, do NOT use it for microwave cooking.
- **Do not exceed 1 minute cooking time.**

Materials which are microwave safe :

Utensils made from	Remark
Aluminium foil	Shielding only. Small smooth pieces can be used to cover thin parts of meat or poultry to prevent over cooking. Arcing can occur if the foil is too close to oven walls. The foil should be at least 2.5cm away from the oven walls.
Browning dish	Follow the manufacturer's instructions. The bottom of browning dish must be at least 5mm above the turntable. Incorrect usage of browning dish may cause the turntable to break.
Dinnerware	Microwave safe only. Follow the manufacturer's instructions. Do not use cracked or chipped dishes.
Glass jars	Always remove the lid. Use only to warm up food. Most glass jars are not heat resistant and it may break.
Glassware	Heat-resistant oven glassware only. Make sure this is no metallic trim. Do not use cracked or chipped dishes.
Oven cooking bag	Follow manufacturer's instructions. Do not close the bag with metal tie. Make slits to allow steam to escape.
Paper plates and cups	Use for short term cooking / warming only. Do not leave oven unattended while cooking.
Paper towels	Use to cover food for reheating and absorbing fat. Use with supervision for a short term cooking only.
Parchment paper	Use as a cover to prevent splattering or a wrap for steaming.
Plastic	Microwave safe only. Follow the manufacturer's instructions. There should be marks / label to show it can be used in a microwave. Some plastic containers soften as food inside gets hot. "Boiling bags" and tightly closed plastic bags should be slit, pierced or vented.
Plastic wrap	Microwave safe only. Use to cover food while cooking to retain moisture. Do not allow plastic wrap to touch the food.
Thermometer	Microwave safe only (meat and candy thermometers).
Wax paper	Use as a cover to prevent splattering and retain moisture.

Materials which are **NOT** microwave safe :

Utensils made from	Remark
Aluminium tray	May cause arcing. Transfer food into a microwave safe dish.
Food carton with metal handle	May cause arcing. Transfer food into a microwave safe dish.
Metal or metal trimmed	Metal shields the food from microwave energy. Metal trim may cause arcing.
Metal twist ties	May cause arcing and could catch fire.
Paper bags	May cause fire in the oven.
Plastic foam	May melt or contaminate the liquid inside when exposed to high temperature.
Wood	Wood will dry out if it is put in microwave oven for cooking. It may split or crack.

Troubleshooting

The following scenarios are normal :

- Microwave oven interfering TV reception
 - Radio and TV reception may be interfered while microwave oven is in operation.
- Dim oven light
 - In low power microwave cooking, oven light may become dim.
- Steam accumulating on door, hot air out of vents
 - During cooking time, steam may come out from food. Most of it will get out through vents. However, some may accumulate at cool places such as oven door.

Warning!

Microwave Oven should not be run with no food in.

Problem	Possible Causes	Solution
Microwave oven cannot be started	Power cord not plugged in properly	Unplug and plug in again after 10 seconds.
	Fuse is blown or circuit breaker activated	Replace the blown fuse or reset the circuit breaker (contact the authorised electrician)
	Faulty power outlet	Test the power outlet with other electrical appliances to make sure the cause.
Oven does not heat up	Oven door is not closed properly	Close the oven door properly
Noisy glass turntable during oven operation.	Turntable assembly is dirty	Clean the turntable assembly

Technical Data

Model Number	MOV28S2M
Rated Voltage	240Vac 50Hz
Rated Input Power (Microwave)	1450W
Rated Output Power (Microwave)	900W
Rated Input Power (Grill)	1000W
Oven Capacity	28L
Turntable Diameter	∅ 315mm
External Dimension	595 x 400 x 388 mm
Net Weight	Approx 18.5kg