SENTINEL™

COMMERCIAL MICROWAVE OVEN

SMW1000E

SMW1000D

SMW1800D

INSTRUCTION MANUAL

MODELS: SMW1000D / SMW1000E / SMW1800E

PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE USING YOUR MICROWAVE OVEN

081916

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PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

(a) Do not attempt to operate this oven with the door open since this can result in harmful exposure to microwave energy. It is important not to break or tamper with the safety interlocks.

(b) Do not place any object between the oven front face and the door or allow soil or cleaner residue to accumulate on sealing surfaces.

(c) Do not operate the oven if it is damaged. It is particularly important that the oven door closes properly and that there is no damage to the:
   1. DOOR (bent)
   2. HINGES AND LATCHES (broken or loosened)
   3. DOOR SEALS AND SEALING SURFACE

(d) The oven should not be adjusted or repaired by anyone except properly qualified service personnel.

ADDENDUM

If the apparatus is not maintained in a good state of cleanliness, its surface could be degraded and affect the lifespan of the apparatus and lead to a dangerous situation.

SPECIFICATIONS

Model:	SMWI000D
Rated Voltage:	120V I 60Hz I 1
Rated Input Power(Microwave):	1500W
Rated Output Power(Microwave):	1000W
Oven Capacity:	1.0 Cu. Ft.
External Dimensions (WxHxD):	20"W x 14"D x 12"H
Net Weight:	Approx. 39 Lbs

Model:	SMWI000E
Rated Voltage:	120V I 60Hz I 1, 220V I 50 Hz I 1, 220V I 60 Hz I 1
Rated Input Power(Microwave):	1500W
Rated Output Power(Microwave):	1000W
Oven Capacity:	1.0 Cu. Ft.
External Dimensions (WxHxD):	20"W x 14"D x 12"H
Net Weight:	Approx. 39.5 Lbs

Model:	SMWI800E
Rated Voltage:	220V I 60Hz I 1, 230V I 50 Hz I 1
Rated Input Power(Microwave):	3000W
Rated Output Power(Microwave):	1800W
Oven Capacity:	1.2 Cu. Ft.
External Dimensions (WxHxD):	23"W x 21"D x 14.5"H
Net Weight:	Approx. 39.5 Lbs

WARNING: Handling the cord on this press or cords associated with accessories sold with this product, will expose you to lead a chemical known to the state of California to cause cancer, and birth defects or other reproductive harm. **Wash hands after handle.**

SAFETY

1. The oven must be on a leveled surface.
2. Use only the specified bag size when using Direct Access Popcorn.
3. The oven has several built-in safety switches to ensure that the power remains off when the door is open. Do not tamper with these switches.
4. Do not operate the microwave oven empty. Operating the oven with no food or food that is extremely low in moisture can cause fire, charring or sparking.
5. Do not heat baby bottles or baby food in the microwave oven. Uneven heating may occur and could cause physical injury.
6. Do not heat narrow-necked containers, such as syrup bottles.
7. Do not attempt to deep-fry in your microwave oven.
8. Do not attempt home canning in this microwave oven, as it is impossible to be sure all contents of the jar have reached boiling temperature.
9. To prevent delayed eruptive boiling of hot liquids and beverages or scalding yourself, stir liquid before placing the container in the oven and again halfway through cooking time. Let stand in the oven for a short time and stir again before removing the container.
10. Use carefully when cooking food in the microwave oven to avoid burning due to excessive cooking.
11. When the appliance is operated in the combination mode, children should only use the oven under adult supervision due to the temperatures generated.
12. Failure to maintain the oven in a clean condition could lead to deterioration that could adversely affect the life of the appliance and possibly result in a hazardous situation.

IMPORTANT SAFETY INSTRUCTIONS WARNING

To reduce the risk of fire, electric shock, injury to persons or exposure to excessive microwave oven energy when using your appliance, follow basic precautions, including the following:

1. Read all instructions before using the appliance.
2. Read and follow the specific: **"PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY".**
3. As with most cooking appliances, close supervision is necessary to reduce the risk of a fire in the oven cavity.

If materials inside the oven ignite:

1. Keep the oven door closed.
2. Turn the oven off, and unplug the appliance.
3. Disconnect the power cord, shut off power at the fuse or circuit breaker panel.
4. Do not overcook food. Carefully attend the appliance when paper, plastic, or other combustible materials are placed inside the oven to facilitate cooking.
5. Do not use the oven cavity for storage purposes. Do not store combustible items such as bread, cookies, paper products, etc. inside the oven.
6. Remove wire twist-ties and metal handles from paper or plastic containers/bags before placing them in the oven.
7. This oven must be grounded. Connect only to properly grounded outlet. See "GROUNDING INSTRUCTIONS".
8. Install or locate this oven only in accordance with the installation instructions provided.

9. Some products such as whole eggs, water with oil or fat, sealed to explode and therefore should not be heated in this oven.

10. Use this appliance only for its intended uses as described in this manual. Do not use corrosive chemicals or vapors in this appliance. This oven is specifically designed to heat or cook food. It is not designed for industrial or laboratory use.

11. As with any appliance, close supervision is necessary when used by children.

12. Do not operate this oven if it has a damaged cord or plug, if it is not working properly or if it has been damaged or dropped.

13. This appliance should be serviced only by qualified service technicians. Contact the nearest authorized service facility for examination, repair or adjustment.

14. Do not cover or block any vents on the oven.

15. Do not store or use this appliance outdoors.

16. Do not use this oven near water, for example, near a kitchen sink, in a wet basement, near a swimming pool, or similar locations.

17. Do not immerse cord or plug in water.

18. Keep cord away from heated surfaces.

19. Do not let cord hang over edge of table or counter.

20. When cleaning door and oven surfaces use only mild, nonabrasive soaps or detergents applied with a sponge or soft cloth.

21. Liquids, such as water, coffee, or tea are able to be overheated beyond the boiling point without appearing to be boiling. Visible bubbling or boiling when the container is removed from the microwave oven is not always present. THIS COULD RESULT IN VERY HOT LIQUIDS SUDDENLY BOILING OVER WHEN THE CONTAINER IS DISTURBED OR A SPOON OR OTHER UTENSIL IS INSERTED INTO THE LIQUID.
    (i) Do not overheat the liquid.
    (ii) Stir the liquid both before and halfway through heating it.
    (iii) Do not use straight-sided containers with narrow necks.
    (iv) After heating, allow the container to stand in the microwave oven for a short time before removing the container.
    (v) Use extreme care when inserting a spoon or other utensil into the container

SAVE THESE INSTRUCTIONS
To Reduce the Risk of Injury to Persons
GROUNDING INSTALLATION

DANGER

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

WARNING

Electric Shock Hazard Improper use of the grounding can result in electric shock. Do not plug into an outlet until appliance is properly installed and grounded.

Three-pronged (grounding) plug

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

Consult a qualified electrician or serviceman if the grounding instructions are not completely understood or if doubt exists as to whether the appliance is properly grounded. If it is necessary to use an extension cord, use only a 3-wire extension cord that has a 3-pronged grounding plug, and a 3-slot receptacle that will accept the plug on the appliance.

1. A short power-supply cord is provided to reduce the risks resulting from becoming entangled in or tripping over a longer cord.

2. Longer cord sets or extension cord is provided to reduce the risks resulting from becoming entangled in or tripping over a longer cord.

3. If a long cord sets or extension cord is used:

   1) The marked electrical rating of the cord set or extension marked electrical rating of the cord set or extension cord should be at least as great as the electrical rating of the appliance.

   2) The extension cord must be a grounding-type 3-wire cord.

   3) The longer cord should be arranged so that it will not drape over the countertop or tabletop where it can be pulled on by children or tripped over unintentionally.

UTENSILS

See the instructions on "Materials you can use in microwave oven or to be avoided in microwave oven." There may be certain non-metallic utensils that are not safe to use for microwaving. If in doubt, you can test the utensil in question following the procedure below.

Utensil Test:

1. Fill a microwave-safe container with 1 cup of cold water (250ml) along with the utensil in question.

2. Cook on maximum power for 1 minute.

3. Carefully feel the utensil. If the empty utensil is warm, do not use it for microwave cooking.

4. Do not exceed 1 minute cooking time.

CAUTION

Personal Injury Hazard Tightly-closed utensils could explode. Closed containers should be opened and plastic pouches should be pierced before cooking.

MATERIALS YOU CAN USE IN MICROWAVE OVEN

Utensils	Remarks:
Aluminum foil	Shielding only. Small smooth pieces can be used to cover thin parts of meat or poultry to prevent overcooking. Arcing can occur if foil is too close to oven walls. The foil should be at least 1 inch (2.5cm) away from oven walls.
Browning Dish	Follow manufacturer's instructions.
Dinnerware	Microwave-safe only. Follow manufacturer's instructions. Do not use cracked or chipped dishes.
Glass Jars	Always remove lid. Use only to heat food until just warm. Most glass jars are not heat resistant and may break.
Glassware	Heat-resistant oven glassware only. Make sure there is no metallic trim. Do not use cracked or chipped dishes.
Oven Cooking Bags	Follow manufacturer's instructions. Do not close with metal tie. Make slits to allow steam to escape.
Paper Plates & 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. Should be labeled "Microwave Safe". Some plastic containers soften, as the food inside gets hot. "Boiling bags" and tightly closed plastic bags should be slit, pierced or vented as directed by package.
Plastic Wrap	Microwave-safe only. Use to cover food during cooking to retain moisture. Do not allow plastic wrap to touch food.
Thermometers	Microwave-safe only (meat and candy thermometers).
Wax Paper	Use as a cover to prevent splattering and retain moisture.

MATERIALS TO BE AVOIDED IN MICROWAVE OVEN

Utensils	Remarks:
Aluminum Tray	May cause arcing. Transfer food into microwave-safe dish.
Food Carton with Metal Handle	May cause arcing. Transfer food into microwave-safe dish.
Metal or Metal-trimmed Utensils	Metal shields the food from microwave energy. Metal trim may cause arcing .
Metal Twist Ties	May cause arcing and could cause a fire in the oven.
Paper Bags	May cause a fire in the oven.
Plastic Foam	Plastic foam may melt or contaminate the liquid inside when exposed to high temperature .
Wood	Wood will dry out when used in the microwave oven and may split or crack.

CLEANING INSTRUCTIONS
Always keep the oven clean

1. Cleaning the glass viewing window, the inner door panel and oven front face.

For best performance and to maintain the high degree of safety, the inner door panel and oven front face should be free of food or grease build-up. Wipe these parts with a mild detergent, rinse and wipe dry. Never use abrasive powders or pads.

2. Cleaning the control panel and plastic parts.

Do not apply a detergent or an alkaline liquid spray to the control panel and plastic parts, as this may cause damage to these parts.
Use a dry cloth (not a soaked cloth) to clean these parts.

3. Cleaning the oven interior

After use be sure to clean up spilled liquids, spattered oil and food debris as quickly as possible. If the oven is used when dirty, efficiency drops and the dirt gets stuck on the oven surface and may cause bad odors. Clean the interior with a cloth soaked in luke-warm water with a mild detergent dissolved in it, then rinse the soap off with a damp cloth.

CAUTION

Do Not wipe plastic and painted sections of the oven with bleach, thinners or other cleaning agents, as this may cause these parts to dissolve or change sharp.

SETTING UP YOUR OVEN

Names of Oven Parts and Accessories

Remove the oven and all materials from the carton and oven cavity. Your oven comes with the following accessories:

TIME GUIDE FOR ONE SERVING

10-30 sec. Bagel,Hot Muffin,Pastry Pie Slice	30-60 sec. Hot Dog Pizza Slice Small Sandwich
1 - 2 Min Beverage,Soup Large Sandwich Popcorn,1.5 Oz	2 - 3 Min Casserole,Stew Chili,Chowder Popcorn,3.5 Oz

INSTRUCTIONS

- With the door closed,turn the timer tothe desired time. Oven will begin operating immediately.
- Upon opening the oven door while in operation, the unit shuts down and the program is cancelled.

A) Control panel
B) Observation window
C) Door assembly
D) Safety interlock system
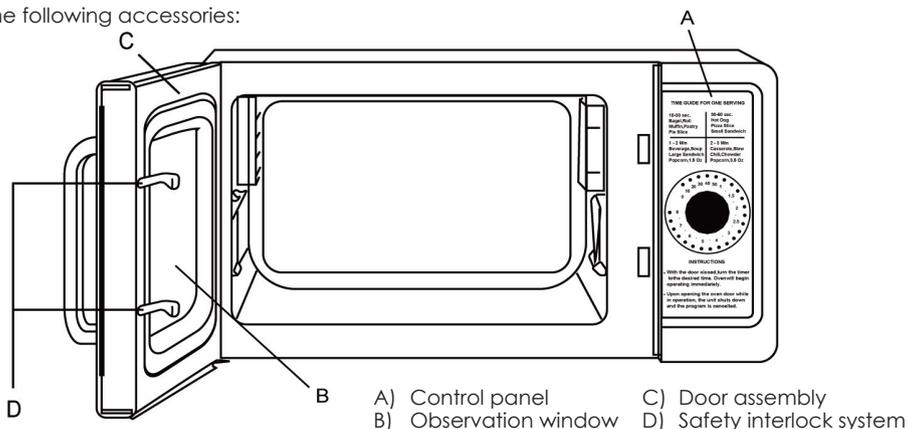
OPERATION:
Control Panel and Features

Cooking Guide:

Bagel,Roll,Muffin, Pastry,Pie Slice **10-30Sec.**
Hot Dog,Pizza Slice,Small Sandwich **30-60 Sec**
Beverage,Soup,Large Sandwich,Popcorn (1.5 Oz) **1-2 Min.**
Casserole,Stew Chili, Chowder Popcorn (3.5 Oz) **2-3 Min.**

TIME GUIDE FOR ONE SERVING

10-30 sec. **Bagel,Roll** **Muffin,Pastry** **Pie Slice**	**30-60 sec.** **Hot Dog** **Pizza Slice** **Small Sandwich**
1 - 2 Min **Beverage,Soup** **Large Sandwich** **Popcorn,1.5 Oz**	**2 - 3 Min** **Casserole,Stew** **Chili,Chowder** **Popcorn,3.5 Oz**
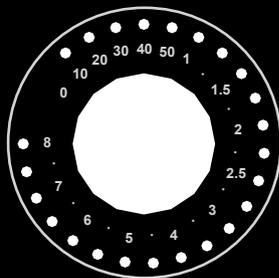
INSTRUCTIONS

- **With the door closed,turn the timer tothe desired time. Oven will begin operating immediately.**
- **Upon opening the oven door while in operation, the unit shuts down and the program is cancelled.**

MODEL: **SMW1000D**

OPERATION INSTRUCTIONS

1. Waiting State Instructions

When the microwave oven is electrified, the buzzer will sound once and enter into waiting state.

(1) When electrified for the first time,the program go into waiting state directly.

(2) After cooking finished, the program go into waiting state.

(3) During cooking process, if you open the oven door,the program will turn back to waiting state automatically and the cooking time is zero.

2. Microwave Cooking

(1) In waiting state,turn " " directly to choose the cooking time. And the cooking will start immediately. The time setting will be 0:10 to 8:00. The default microwave power is 100%. When setting the time, the responding indicator will light.

For example, when time is 5 minutes, the indicator from A to R will all light.

(2) When cooking finished, buzzer will sound five times and oven turn back to waiting state. During cooking process,if the door is opened and the program will turn back to waiting state immediately, the indicator will turn to "0".

Note: the step quantities for the adjustment time of the coding switch are as follow:

Adjustment Time:	
0-1 minute	10 Seconds
1-3 minutes	15 Seconds
3-8 minutes	30 Seconds

3. Cooking Ending Reminding Function

When cooking finish,the buzzer will sound five times to tell you that the cooking is over.

4. Other Specifications

(1) The buzzer will sound once when each turning the knob.

(2) The buzzer will sound once when first turn the knob. If no pause during turning, the buzzer will not sound.

(3) The oven lamp will light all the time if the oven door is opened and the power is connected.

# MODEL: **SMW1000E**

SETTING UP YOUR OVEN

Names of Oven Parts and Accessories

Remove the oven and all materials from the carton and oven cavity. Your oven comes with the following accessories:

A) Control panel
B) Observation window
C) Door assembly
D) Safety interlock system
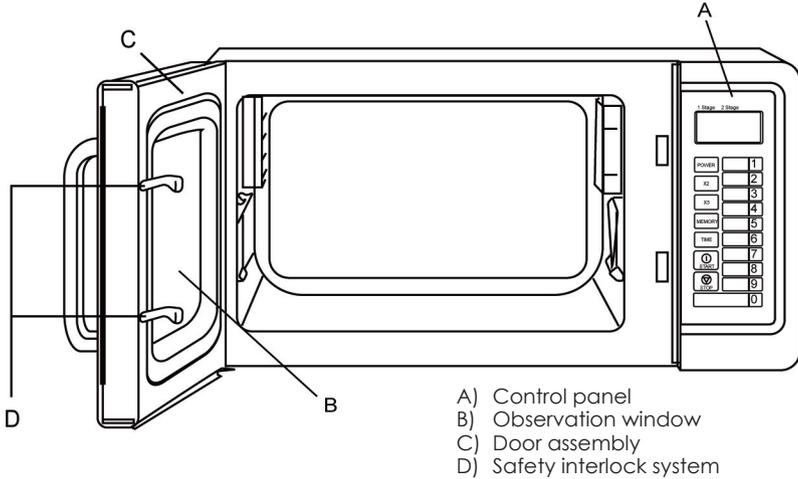
OPERATION:
Control Panel and Features

(1) LED display-Cooking time, power level, function indicator are displayed.

(2) Power Key- Choose the power level.

(3) X2 Key-For setting cooking to double quantities. Time can be twice as before.

(4) X3 Key-For setting cooking to triple quantities. Time can be three times as before.

(5) Memory Key-For entering the desired power output and cooking time.

(6) Time Key-For choosing the desired cooking time.

(7) Start Key-For start of programmed cooking.

(8) Stop Key-For canceling setting interrupting the setting process when a mistake has been made, or stopping cooking before completion of the cooking process.

(9) Number Key-For determining power and cooking time.

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MODEL: **SMW1000E**
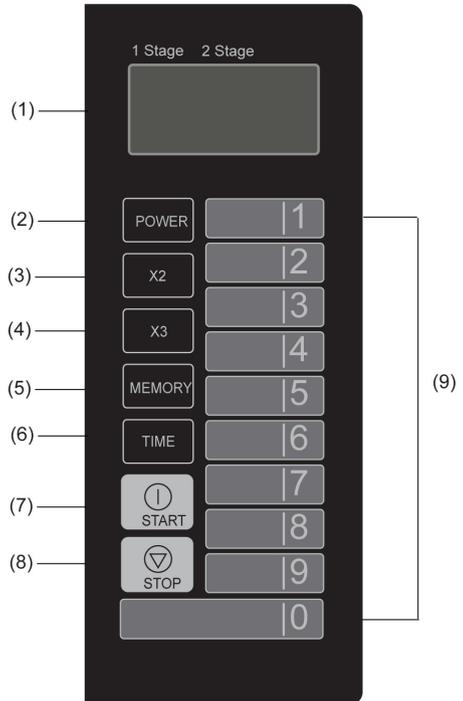
OPERATION INSTRUCTIONS

The buzzer will sound once and "0:00" will display when the oven is electrified for the first time.

1. Microwave Cooking

1) In waiting state,press "POWER", "PL10" displays.
2) Press number keys between 0-9 to choose power level.
   For example, when choose 60% microwave power, press "6", "PL6" displays.
   The default power is PL10 if this step ignored.
3) Press "TIME", "0:00" displays.
4) Press number keys 0-9 to input the cooking time.
   The maximum time is 30 minutes between PL10 to PL7.
   The maximum time is 60 minutes between PL6 to PL0.
5) Press "START" to start cooking. Note:
   a. If the setting power is PL10, step 1 and 2 can be ignored.
   And start the program with step 3 directly.
   b. During program setting process, if "STOP" key is pressed or no operation in
   one minute, the setting will canceled.

11 POWER LEVELS ARE AVAILABLE										
LEVEL	10	9	8	7	6	5	4	3	2	1	0
POWER	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%	0%
DISPLAY	PL10	PL9	PL8	PL7	PL6	PL5	PL4	PL3	PL2	PL1	PL0

2. Speedy Cooking

1) In waiting state, press " TIME " key directly, "0:00" displays.
   Press number keys 0-9 ti input the cooking time. The default power is 100%. The maximum
   time is 30 minutes. After setting the time,press "START" to start cooking.
2) In waiting state, press "START" to start cooking with 30 seconds at 100% microwave power.
   Each press on the same button, 30 seconds will be increased.
   The maximum time is 30 minutes.

Note:

a. During cooing, including multi-stage,press "START" to increased the cooking time and the
   power will not change.
b. If the memory procedure is operated, press "START" to increased the time. And the program
   will not change.

3. Multi-Stage Cooking

Two stages can be maximumly set. The buzzer will ring once after each stage and the next stage will begin. A maximum of 2 stages can be set.

Note: Memory function cannot be set as one of the stages.

Example: if you want to cook the food with 70% microwave power for 5 minutes, then to cook with 50% microwave power for 7 minutes. The steps are as following:

(1) In waiting state, press" POWER " once,"PL10" displays.

(2) Press "7" to choose 70% microwave power and "PL7" display.

(3) Press "TIME", "0:00" displays.

(4) Press ''5'',"0","0" to input the cooking time.

(5) Press "POWER" once.

(6) Press "5" to choose 50% microwave power and "PL5" display.

(7) Press "TIME", "0:00" displays.

(8) Press '7","0","0" to input the cooking time.

(9) Press "START" to start cooking.

Note: if one stage is PL10 power,press "TIME" directly and then press number keys to input the cooking time.

4.Memory Function

(1) Press 0-9 number keys to choose memory procedure. The LED will display 0,1,2,3...9. (2)If the procedure has been set, press " START" to use it. If not, continue to set the procedure. Only one or two stages can be set.

(3) After finishing the setting, press "MEMORY" to save the procedure and turn back to the waiting states. If press " START", it can save and operate the setting.

Example: To set the following procedure as the memory 3.

To cook the food with 80% microwave power for 3 minutes and 20 seconds, and then 90% microwave power for 5 minutes and 40 seconds.

The steps are as follow:

a. In waiting state, press "MEMORY", "0:00" displays.

b. Press "3" and save as memory 3.

c. Press "POWER","PL10" displays.

d. Press "8" to choose 80% microwave power. "PL8" displays.

e. Press "TIME", "0:00" displays.

f. Press "3","2","0" to choose cooking time.

g. Press "POWER","PL10" displays.

h. Press "9" to choose 90% microwave power. "PL9" displays.

i. Press "TIME", "0:00" displays.

j. Press "5","4","0" to choose cooking time.

k. Press "MEMORY" to save the setting to number 3.

Or press "START" to start the cooking and save the program to number 3.

Note: (1) The program will save all the time if the electricity is cut off.

(2) If you want to modify the program, repeat the above steps to reset and save.

5.Multi-Quantity Function
    (1) In waiting state, press "X2" ,"2" will display.
    (2) Press number keys from 0 to 9 to start memory function.
       The cooking time of the saved program will be twice (X2) or three times (X3) as before.
       For example:
       The previous program: cook the food with 80% microwave power for 3 minutes and 20
       seconds, and then 90% microwave power for 5 minutes and 30 seconds. And now the
       program will operate: cook the food with 80% microwave power for 6 minutes and 40
       seconds, and then 90% microwave power for 11 minutes.

Note: If "X2" or "X3" is pressed, the time exceeds the maximum time, the oven cannot start
cooking and the buzzer will alarm once.

6.Lock-out Function for Children
Lock: In waiting state, press "STOP" for 3 seconds, there will be a long "beep" denoting entering
      the children-lock state and screen will display "   ".
Lock quitting: In locked state, press "STOP" for 3 seconds, there will be a long "beep" denoting
            that the lock is released.

7.Inquiring Function
    1) In cooking states of microwave, press " POWER", the current power will be displayed for 3
       seconds.
    2) Memory state check: when checking,the oven door must be opened.
       If only one stage saved, press the remember key 0-9, the power level will display for 3
       seconds and then the cooking time will display for 3 seconds.
       If two stages saved, press the remember key 0-9, power level of the first stage will display
       for 3 seconds and then the cooking time will display for 3 seconds. Then the power level
       and time of second stage will display.

8.Cooking End Reminding Function
When cooking ends, there will be 5 beeps which is reminding the completion of cooking.

9.Display Specification
    (1) In waiting state, LED will display clock and " : " will flash.
    (2) In function setting state, LED will display the related setting.
    (3) In the operation and suspending state, LED will display the residual cooking time.

OPERATION INSTRUCTIONS

Control Panel and Features
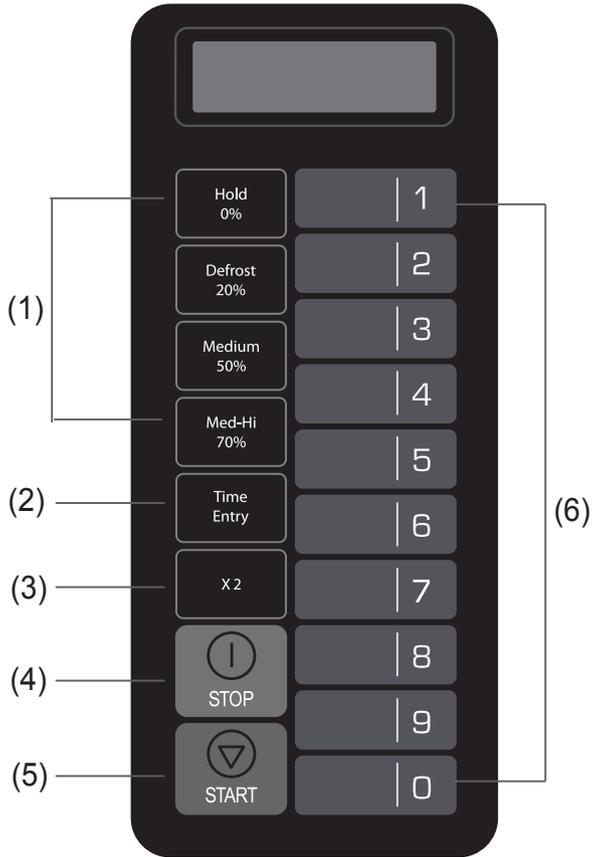
(1) Power Buttons
(2) Time Entry Button
(3) Double Quantity Button
(4) Stop/Reset Button
(5) Start Button
(6) Number Keyboard

Appendix. A   User Options

Items bolded below are the default values.

Option	Setting	Discription
1 EOC Tone	OP:10	**3 seconds beep**
	OP:11	Continuous beep
	OP:12	5 quick beeps,Repeating
2 Beeper Volume	OP:20	Beeper Off
	OP:21	Low
	OP:22	**Medium**
	OP:23	High
3 Beeper On/Off	OP:30	Keybeep Off
	OP:31	**Keybeep On**
4 Keyboard Window	OP:40	15 seconds
	OP:41	30 seconds
	OP:42	**60 seconds**
	OP:43	120 seconds
5 On the Fly	OP:50	On-the-Fly Disable
	OP:51	**On-the-Fly Enable**
6 Door Reset	OP:60	**Door reset Disable**
	OP:61	Door Reset Enable
7 Max time	OP:70	**60 Minute Maximum Cook Time**
	OP:71	10 Minute Maximum Cook Time
8 Manual Programming	OP:80	Manual Programming Disable
	OP:81	**Manual Programming Enable**
9 Double Digit	OP:90	**Single Digit Mode-10 programs**
	OP:91	Doule Digit Mode-100 programs

product Specification.

Button	Display (Time)	Power	Cook Factors
1	0:10	100%	80%
2	0:20	100%	80%
3	0:30	100%	80%
4	0:45	100%	80%
5	1:00	100%	80%
6	1:30	100%	80%
7	2:00	100%	80%
8	2:30	100%	80%
9	3:00	100%	80%
0	3:30	100%	80%

1. Power Up

" ------- " displays when the oven is electrified for the first time. If " (I) " button pressed, the oven will change to idle mode.

Note: Under idle mode, no button can be pressed.

2. Idle Mode

1) The oven shall enter idle mode after a set of seconds have expired in Ready Mode without a keyboard press or a door open and close. The number of seconds is determined by the keyboard Timeout Window, set by User Option 4.
2) During idle mode, the screen is blank. And there shall be no oven activity.
3) Opening and then closing the oven door, the oven will exit the idle mode and into ready mode.

3. Ready Mode

1) In this mode, the oven is ready to either begin a manual or preset cook cycle.
2) Opening and closing the door while the oven is in Idle Mode will put the oven into Ready Mode.
2) During Ready Mode, "READY" displays.
3) From the Ready Mode, the oven can go to almost all of the other modes.

4. Door Open Mode

1) While the door of the oven is open, the oven shall be in Door Open Mode.
2) During this mode, the screen is blank. And the fan and oven lamp work.
3) When the door is closed, if User Option OP:60 is selected and the oven was running a manual or preset cook cycle, the oven shall enter Pause Mode. In all other cases, the oven shall return to Door open Mode with User Option OP:61 set, opening and closing the door will clear out any information about a Manual or Preset Program which was running.

5. Pause Mode

1) This mode allow the users to temporarily stop the cooking cycle to inspect or stir the food item.
2) While in Manual Cook Mode, or Preset Program Cook Mode, if the door is open or closed, or if the " Ⓘ " pad is pressed, the oven will enter Pause Mode.
3) While paused, the screen will display the remaining cooking time.
4) Pause Mode will expire back to Idle Mode in the exact fashion as Ready Mode, dependent on User Option 4. Additionally, if the " Ⓘ " button is pressed, the oven shall immediately enter Ready Mode. Or if press " ▽ " button, the oven will go into working mode.

6. Manual Cook Entry Mode

1) The user may manuallly enter a cook time and power level while in this mode.
2) While the oven is in the Ready Mode,pressing the "Time Entry" pad on the keyboard will put the oven into Manual Cook Entry Mode.
3) During this mode, "00:00" displays,input the time you need.
4) If you press "Hold 0%", "Defrost 20%", "Medium 50%" or "Med-Hi 70%" button to select power level, the screen will display the related power. If the same button pressed twice, the power will change to PL10. If no power chosen, "PL10" is default.
5) During setting process, press " ▽ " to enter Manual Cook Mode. Press " Ⓘ " to enter Ready Mode.

7. Manual Cook Mode

1) This mode allows cooking of the food items.While in Manual Cook Entry Mode, pressing the " ▽ " pad will cause to the oven to begin Manual Cook Mode.
2) During this mode, remaning cooking time displays. The fan and oven lamp will work.
3) When cooking program finish, the oven will enter End of Cook Cycle Mode. If you press " Ⓘ " button under this mode,the oven will enter Pause Mode.

8. End of Cook Cycle Mode

1) After the time has expired in a Manual Cook Mode, or a Preset Program Cook Mode, the oven shall go into The End of Cook Cycle Mode.
2) During this mode, "DONE" displays.
3) If either User Option OP:11 or OP:12 is selected, the oven shall continue to sound until the user acknowledges this by either opening and closing the door or pressing the "Ⓘ" pad. If User Option OP:10 is selected, after the 3 second beep, the oven shall go into Idle Mode.

9. Preset Program Cook Mode

1) This mode allows cooking of food items through a one pad touch operation.
While in Ready Mode,pressing one of ten digit keys on the keyboard will cause
the oven to run the Preset Program associated with that key.

2) During this mode, the screen displays the remaining cooking time. If it is multi-stage
cooking. the total remaning cooking time displays not a particular stage cooking time.

3) When cooking program finish, the oven will enter End of Cook Cycle Mode.
If you press " (I) " button under this mode, the oven will enter Pause Mode.

10. On the Fly Cooking

1) While the oven is cooking, if User Option OP:51 is selected,press number
buttons, the preset cooking program will start automatically.

2) The screen displays the remaining cooking time.

3) When cooking program finish, the oven will enter End of Cook Cycle Mode.

11. Double Quantity cooking

1) Through the use of the X2 pad, the user can easily set the time two of a particalar
food item.

2) If the "X2" button is pressed in ready mode, followed by the starting of a Preset
Program,or if the "X2" button is pressed in 5 seconds of starting a Preset Program,
the oven will start cooking with the quantity preset cooking time.

3) Press "X2", "DOUBLE" displays. When press number buttons, the screen will display
the quantity preset time.
For example, number button "5" and its preset time is 1 minute. Then press "X2", then
time will change to 1:00*(1+0.8)=1:48(1 minute and 48 seconds).

4) When cooking program finish, the oven will enter End of Cook Cycle Mode.
Note: This function can be used under preset programme mode.

12. Programming Mode

This mode allows the user to assign cook times and power levels to the once touche button.

1) Open the door and press "1" pad for 5 seconds, the buzzer will sound once and enter to
Programming Mode.

2) "PROGRAM" displays. you can input the time you need.

3) Press "Hold 0%", "Defrost 20%", "Medium 50%" or "Med-Hi 70%" to input the power
level. the screen will display the related power. If the same button pressed twice, the
power will change to PL10. If no power chosen, "PL10" is default.

Note: Set the time first, then choose the power.

4) To change the cooking fators: If press "X2",the screen will display "CF:XX". The default factor is 80%. "CF:08" displays. If you need to change the cooking factor, just press one of the number buttons to set.

5) After setting the time and power, press " ⊽ ", the cooking program will be saved. When the program saved, "PROGRAM" displays.

6) If all the cooking time exceeds the MAX.time User Option 7, when press

" ⊽ " to save the program, the buzzer will sound three times briefly to

tell you the time is no use. And then the screen turn back to display "PROGRAM".

The time set before will be no change.

7) Close the door, the oven will turn back to Ready Mode.

If press " ⏻ " button during setting process, the oven turn to Door Open Mode.

The program that not saved will be lost. If there is program saved as memory procedure,

press the related number button, the saved program will start. If no saved program,

the buzzer will alarm when pressing number button and it will not work.

For example: set the program as memory cooking. Power level PL7 and cooking
                     time is 1 minute and 25 seconds.

Step1: Open the door, press number button "1" for 5 seconds,"PROGRAM" displays.
Step 2: Press number button "3", the screen will display "P:03",After two seconds,
            the screen will display the related time " :30".
Step 3: Press number buttons "1", "2" and "5" to input the cooking time.

Step 4: Press "Med-Hi/70% " button," 1:25 70" displays. Setting finished.

Step 5: Press " ⊽ " to save. When use the program next time, just press "3",
            the related program will start.
Note:

1. If the electricity is cut off, the saved program will not lost.

2. If the program need to reset , just repeat the aboved steps.

3. If press " ⏻ " at the last step, it will turn back to Door Open Mode. The setting will be
    no use.

13. Stage Cooking Programming

This allows the user to cook food items at manual cook mode and programming mode.

1) Three stages can be set at most under cooking mode or programming mode.

Aftet setting the power and time for the first stage, press "Time Entry " to set the second stage. And the same step to set the third stage.

2) When setting the second, third stage, press " Time Entry", "STAGE-2", "STAGE-3" displays.

3) Press " (▽) " button to start cooking.

Example: In programming mode,press number buttons "3" to set two stages cooking. The first stage is PL7 and time is 1 minute 25 seconds. The second stage is PL5 and 5 minutes and 40 seconds. The steps are follow.

a.Open the door, press number button "1" for 5 seconds, "PROGRAM" displays.

b. Press number button "3", the screen will display "P:03". After two seconds, the screen will display the related time " :30".

c.Press "1","2","5" to input the cooking time. "1:25" displays.

d. Press "Med-Hi 70% ", "1:25 70" displays.

The first stage is finished.

e.Press " Time Entry", "STAGE-2" displays.

f. Press "5", "4","0" button, "5:40" displays.

g. Press "Medium 50% ", "5:40 50" displays.

The second stage is finished.

h. Press " (▽) " button to start cooking.

i. The total time coutns down.

14. Use Option Mode

This allows the user choose between various ways for the oven to operate.

1) Open the oven door and press "2" pad for 5 seconds. The buzzer sounds once and enter this mode.

2) The screen displays "OP: - -".

3) Press any number button to enter related mode setting.

For example: to set the voice of the buzzer to medium. Press " 2 ", "OP:22" displays.

If you want to change, keep pressing "2", the screen displays "OP:20", "OP:21","OP:22", "OP:23","OP:20" .....in cycle.

4) Press " (▽)   " to save the current setting. After saved, "OP: - -" display again.

5) During setting process, press " (I) " to enter Door Open Mode. Close the door will enter Ready Mode.

6) If " (▽) " button not pressed at the last step, the program cannot be saved but stay at previous way.

15. Service Mode

1) Open the oven door and press "3" pad for 5 seconds to enter service mode.

2) The screen displays "SERVICE".

3) To check the times of closing or opening the door, just press number button "3",
   the screen will display the times.

4) If press " 1 " pad for Tube Hours.

   If press " 2 " pad for Tube Cycles.

   If press " 3 " pad for Door Cycles..

   If press " 4 " pad to Clear service information.

   If press " 5 " pad to run Top Mag. Oven displays amps.

   If press " 6 " pad to run Bottom Mag. Oven displays amps.

5) Press " (I) " to enter Door Open Mode. Close the door will enter Ready Mode.

16. Factory-default setting

 In the Ready Mode, pressing " (▽) " and " 0 " to factory-default setting.

1) Press " (▽) " and " 0 ", the buzzer sounds once,and the screen will display "CHECK". If it is
   in the factory-default setting, the screen will display " 11 ", after three seconds, the oven turn
   to the ready mode Press" (I) ". to cancel the display ang back to ready back in the process
   of display. If not in the factory-default setting,the screen will display " 00 ", press" (▽) " to the
   factory-default setting,the screen will display " CLEAR ". the buzzer sounds once, after
   self-testing, the screen will display "11" or "00".

2) If do not press " (▽) " when the screen display " 00 ", the setting will cancel after 10 seconds.
 Note: Be careful in the operation as it will restore all configure to factort-default setting.

How to remove and install the filter
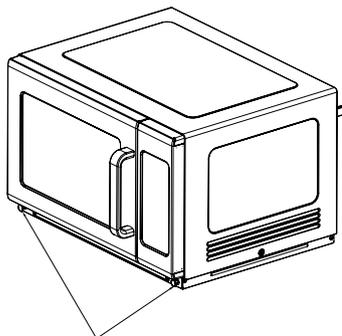
Pull up the plastic nail cap
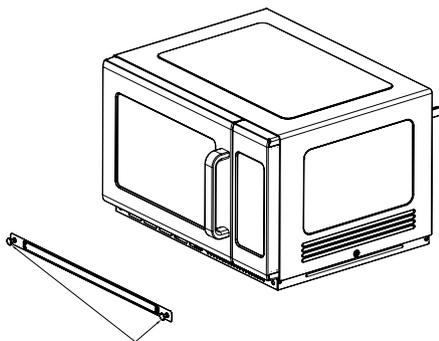
Take off the filter.
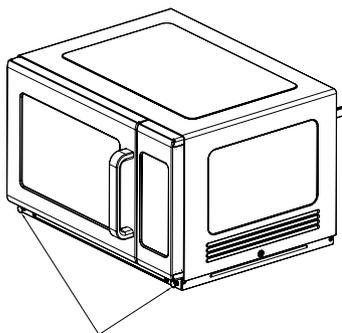
To restall,align the base plate mounting holes,
insert the plastic nails,press the plastic nail cap.

How to remove and install the oil blockage

⚠️ Warning:Before remove and install the oil blockage,be sure to unplug the appliance from the power supply,and avoid high temperature scald.


thumb pressed here
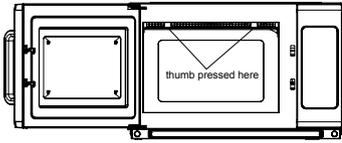
1 hands with oil blockage ,pressed on the arrow shown,pushed back slamly, then pulling down.
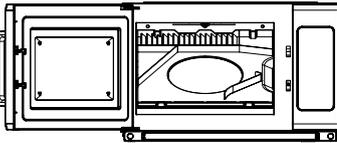

2.status of remove
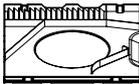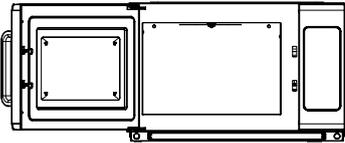
3.taking oil blockage from the appliance.
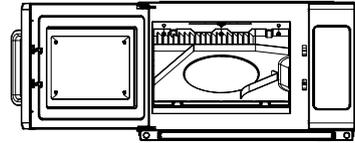
1.Hands to take the oil blockage,after alignment three cylinder of the oil blockage, inserting the three holes of the back plate.

thumb pressed here
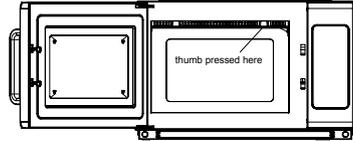
2.The left hand grasp the microwave, right thumb to press the arrow directions and forced to push back. And the left thumb hard pressed upword at the same time. put the right of oil blockage into the buckle of the front plate.
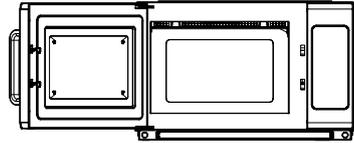
3.From right to left, make the oil blockage loaded. When finish, check to ensure that the oil blockage buckle completely go.

COUNTERTOP INSTALLATION

Remove all packing material and accessories. Examine the oven for any damage such as dents or broken door. Do not install if oven is damaged.

Cabinet: Remove any protective film found on the microwave oven cabinet surface.
Do not remove the light brown Mica cover that is attached to the oven cavity to protect the magnetron.

INSTALLATION

1 Select a level surface that provide enough open space for the intake and/or outlet vents.
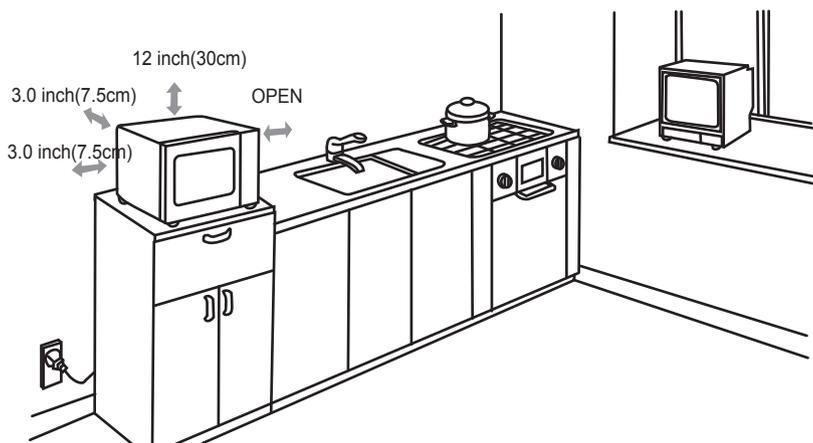
A minimum clearance of 3.0 inches (7.5cm) is required between the oven and any adjacent walls. One side must be open.

1. Leave a minimum clearance of 12 inches (30cm) above the oven.
2. Do not remove the legs from the bottom of the oven.
3. Blocking the intake and/or outlet openings can damage the oven.
4. Place the oven as far away from radios and TV as possible. Operation of microwave oven may cause interference to your radio or TV reception.

2. Plug your oven into a standard household outlet. Be sure the voltage and the frequency is the same as the voltage and the frequency on the rating label.

WARNING: Do not install oven over a range cook-top or other heat-producing appliance. If installed near or over a heat source, the oven could be damaged and the warranty would be void.

MAINTENANCE

Troubleshooting

Check your problem by using the chart below and try the solutions for each problem. If the microwave oven still does not work properly, contact the nearest authorized service center.

TROUBLE	POSSIBLE CAUSE	POSSIBLE REMEDY
Oven will not start	a. Electrical cord for oven is not plugged in. b. Door is open. c. Wrong operation is set.	a. Plug into the outlet. b. Close the door and try again. c. Check instructions.
Arcing or sparking	a. Materials to be avoided in microwave oven were used. b. The oven is operated when empty. c. Spilled food remains in the cavity.	a. Use microwave-safe cookware only. b. Do not operate with oven empty. c. Clean cavity with wet towel.
Unevenly cooked foods	a. Materials to be avoided in microwave oven were used. b. Food is not defrosted completely. c. Cooking time, power level is not suitable. d. Food is not turned or stirred.	a. Use microwave-safe cookware only. b. Completely defrost food. c. Use correct cooking time, power level. d. Turn or stir food.
Overcooked foods	Cooking time, power level is not suitable.	Use correct cooking time, power level.
Undercooked foods	a. Materials to be avoided in microwave oven were used. b. Food is not defrosted completely. c. Oven ventilation ports are restricted. d. Cooking time, power level is not suitable.	a. Use microwave-safe cookware only. b. Completely defrost food. c. Check to see that oven ventilation ports are not restricted. d. Use correct cooking time, power level.
Improper defrosting	a. Materials to be avoided in microwave oven were used. b. Cooking time, power level is not suitable. c. Food is not turned or stirred.	a. Use microwave-safe cookware only. b. Use correct cooking time, power level. c. Turn or stir food.