

Microwave Oven

INSTRUCTION MANUAL

Model:EMD34NS1

Read these instructions carefully before using your microwave oven, and keep it carefully.

If you follow the instructions, your oven will provide you with many years of good service.

SAVE THESE INSTRUCTIONS CAREFULLY

PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- (a) Do not attempt to operate this oven with the door open since open door operation can result in harmful exposure to microwave energy.
It is important not to defeat or tamper with the safety interlocks.
- (b) Do not place any object between the oven front face and the door or allows 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 close properly and that there is no damage to the:
 - (1) DOOR (bent)
 - (2) HINGES AND LATCHES (broken or loosened)
 - (3) DOOR SEALS AND SEALING SURFACES
- (d) The oven should not be adjusted or repaired by anyone except properly qualified service personnel.

Specifications

| | |
|--------------------------------|----------------|
| Model: | EMD34NS1 |
| Rated Voltage: | 208/230V~ 60Hz |
| Rated Input Power(Microwave): | 2000 W |
| Rated Output Power(Microwave): | 1400 W |
| Oven Capacity: | 34 L |
| External Dimensions: | 553X488X343mm |
| Net Weight: | Approx. 21.2Kg |

IMPORTANT SAFETY INSTRUCTIONS

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

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

1. Read all instructions before using the appliance.
2. Read and follow the specific: "PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY" found on page 2.
3. This appliance must be grounded. Connect only to properly grounded outlet. See "GROUNDING INSTRUCTIONS" found on page 4.
4. Install or locate this appliance only in accordance with the provided installation instructions.
5. Some products such as whole eggs and sealed containers - for example, closed glass jars - are able to explode and should not be heated in this oven.
6. Use this appliance only for its intended use as described in the manual. Do not use corrosive chemicals or vapors in this appliance. This type of oven is specifically designed to heat, cook or dry food. It is not designed for industrial or laboratory use.
7. As with any appliance, close supervision is necessary when used by children.
8. Do not operate this appliance if it has a damaged cord or plug, if it is not working properly, or if it has been damaged or dropped.
9. This appliance should be serviced only by qualified service personnel. Contact nearest authorized service facility for examination, repair, or adjustment.
10. Do not cover or block any openings on the appliance.
11. Do not store this appliance outdoors. Do not use this product near water - for example, near a kitchen sink, in a wet basement, near a swimming pool, or similar location.
12. Do not immerse cord or plug in water.
13. Keep cord away from heated surface.
14. Do not let cord hang over edge of table or counter.
15. When cleaning surfaces of door and oven that comes together on closing the door, use only mild, nonabrasive soaps, or detergent applied with a sponge or soft cloth.
16. To reduce the risk of fire in the oven cavity:
 - 1). Do not overcook food. Carefully attend appliance when paper, plastic, or other combustible materials are placed inside the oven to facilitate cooking.
 - 2). Remove wire twist-ties from paper or plastic bag before placing bag in oven.
 - 3). If material inside of the oven ignite, keep oven door closed, turn oven off, and disconnect the power cord, or shut off power at the fuse or circuit breaker panel.
 - 4). Do not use the cavity for storage purposes. Do not leave paper products, cooking utensils, or food in the cavity when not in use.
17. 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 LIQUID SUDDENLY BOILING OVER WHEN THE CONTAINER IS DISTURBED OR A UTENSIL IS INSERTED INTO THE LIQUID.

To reduce the risk of injury to persons:

- 1) Do not overheat the liquid.
- 2) Stir the liquid both before and halfway through heating it.
- 3) Do not use straight-sided containers with narrow necks.
- 4) After heating, allow the container to stand in the microwave oven for a short time before removing the container.
- 5) Use extreme care when inserting a spoon or other utensil into the container.

SAVE THESE INSTRUCTIONS

GROUNDING INSTRUCTIONS

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 a grounding wire with a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded.

WARNING - Improper use of the grounding can result in a risk of electric shock.

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-blade grounded plug, and 3-slot receptacle that will accept the plug on the appliance. The marked rating of the extension cord shall be equal to or greater than the electrical rating of the appliance.

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.

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 cords are available and may be used if care is exercised in their use.
3. If a long cord or extension cord is used:
 - 1) The 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 counter top or tabletop where it can be pulled on by children or tripped over unintentionally.

RADIO INTERFERENCE

1. Operation of the microwave oven may cause interference to your radio, TV or similar equipment.
2. When there is interference, it may be reduced or eliminated by taking the following measures:
 - 1) Clean door and sealing surface of the oven
 - 2) Reorient the receiving antenna of radio or television.
 - 3) Relocate the microwave oven with respect to the receiver.
 - 4) Move the microwave oven away from the receiver.
 - 5) Plug the microwave oven into a different outlet so that microwave oven and receiver are on different branch circuits.

UTENSILS

CAUTION - Personal Injury Hazard

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

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.

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* instructions. The bottom of browning dish must be at least 3/16 inch (5mm) above the turntable. Incorrect usage may cause the turntable to break. |
| 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* instructions. Do not close with metal tie. Make slits to allow steam to escape. |
| Paper plates and cups | Use for short*erm 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* 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. |

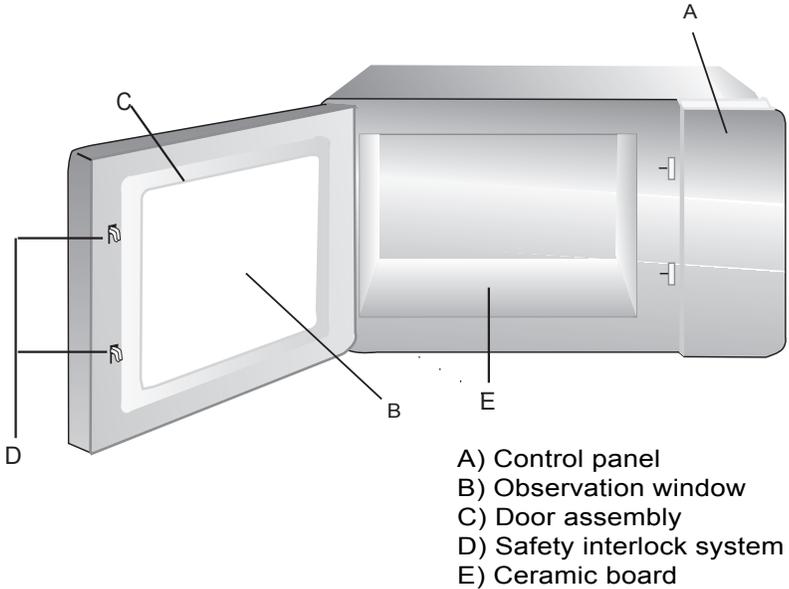
SETTING UP YOUR OVEN

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:

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Note: 1) Don't press the ceramic board forcibly.

- 2) Take and put the utensils gently during the operation in order to avoid damage to the ceramic board.
- 3) After using, don't touch the ceramic board by hand in order to avoid high temperature scald.

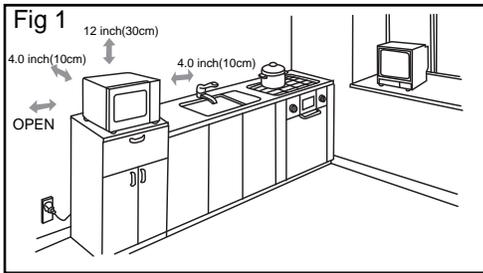
Countertop Installation

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.**

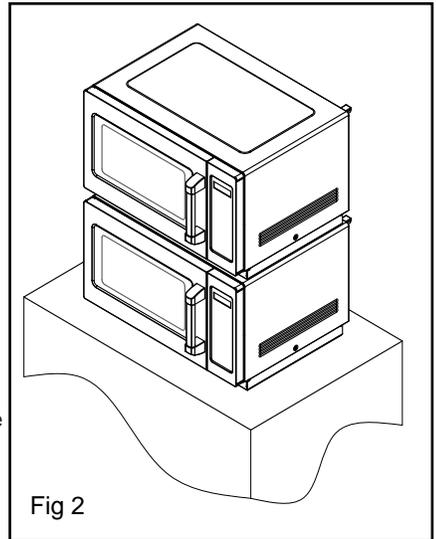
Installation

1. Select a level surface that provide enough open space for the intake and/or outlet vents(Figure1).



A 10-cm spacing should be kept between the appliance and right and back walls, and a 30-cm spacing kept on the top. Never dismantle the appliance's feet ,nor block the air intake and exhaust opening. The left side must be open.

- 1) Blocking the intake and/or outlet openings can damage the oven.
- 2) 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.
- 3) 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.
- 4) Warning: The plug socket, electric appliances or the appliance which are liable effected by heat and moisture should be kept away from any vents on the oven.



The appliance can be installed with a degree of overlap(Figure 2).The maximum overlap height is two layers.

External Equipotential Earthing Terminal (*export only*) Equipment has secondary earthing terminal. Terminal provides external earthing connection used in addition to earthing prong on plug. Located on outside of oven back, terminal is marked with symbol shown below.



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.

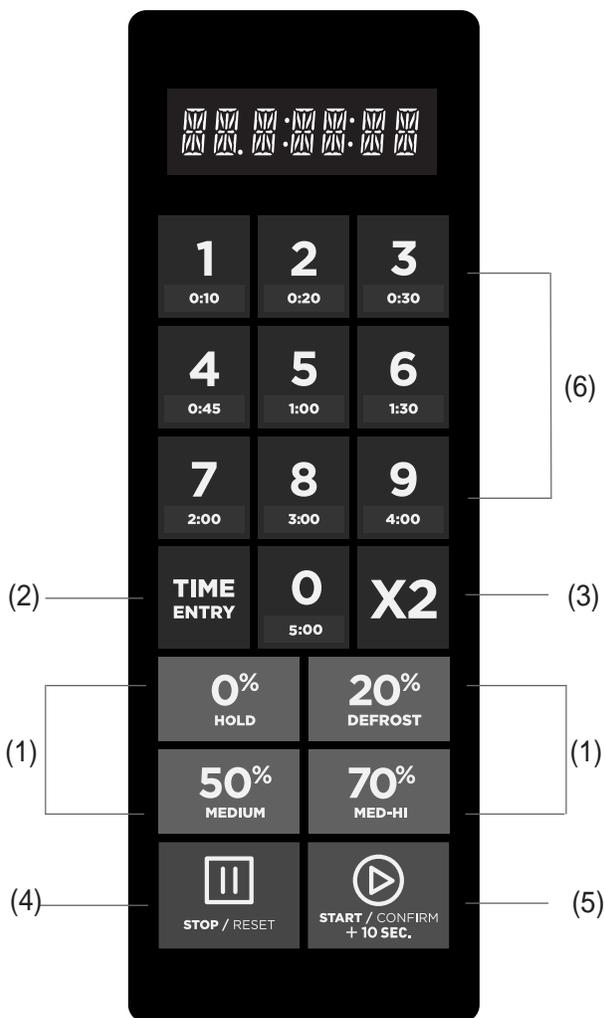
3. Cleaning the oven interior

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 odours. 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 shape.

OPERATION

Control Panel and Features



- (1) Power Buttons
- (2) Time cook Button
- (3) X2 Button
- (4) Stop/Reset Button
- (5) Start Button
- (6) Number Buttons

OPERATION INSTRUCTION

Five power levels are available.

| | | | | | |
|---------|------|---------|------|---------|------|
| Level | High | M. High | Med. | Defrost | Hold |
| Power | 100% | 70% | 50% | 20% | 0% |
| Display | | 70 | 50 | 20 | 0 |

Appendix. A User Options

Items bolded below are the default values.

| Option | Setting | Discription |
|-------------------------|----------------|--------------------------------|
| 1 EOC Tone | 0 P :10 | 3 seconds beep |
| | OP:11 | Continuous beep |
| | OP:12 | 5 quick beeps,Repeating |
| 2 Beeper Volume | OP:20 | Beeper Off |
| | OP:21 | Low |
| | 0 P :22 | Medium |
| | OP:23 | High |
| 3 Beeper On/Off | OP:30 | Keybeep Off |
| | 0 P :31 | Keybeep On |
| 4 Keyboard Window | OP:40 | 15 seconds |
| | OP:41 | 30 seconds |
| | 0 P :42 | 60 seconds |
| | OP:43 | 120 seconds |
| 5 On the Fly | OP:50 | On-the-Fly Disabled |
| | 0 P :51 | On-the-Fly Enabled |
| 6 Door Reset | 0 P :60 | Door Reset Disabled |
| | OP:61 | Door Reset Enabled |
| 7 Max time | 0 P :70 | 60 Minute Maximum Cook Time |
| | OP:71 | 10 Minute Maximum Cook Time |
| 8 Manual Programming | OP:80 | Manual Programming Disabled |
| | 0 P :81 | Manual Programming Enabled |
| 9 Double Digit | 0 P :90 | Single Digit Mode-10 programs |
| | OP:91 | Double Digit Mode-100 programs |

Appendix. B Default Cook Times

The oven shall ship with the following Preset Cook Times unless otherwise noted in the 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 | 3:00 | 100% | 80% |
| 9 | 4:00 | 100% | 80% |
| 0 | 5:00 | 100% | 80% |

1. Ready mode

1. When the oven is connected with the power for the first time, the screen displays [----].
2. After opening and closing of the door, the microwave oven enters Ready mode.
3. The screen displays [READY]. In this case, only the fan and light remain working.

2. Idle mode

1. After the Pause mode or Ready mode under the [OP:4X] mode of user option for some time, the microwave oven will enter the Idle mode automatically.
2. Screen goes out and the oven does not work.
3. After the opening and closing of the door, the microwave oven quits the Idle mode and enters Ready mode.

3. Door open mode

1. Open the door to enter the Door open mode. In this case, only the fan and light remain working.
2. If the door is opened during the cooking, the screen will display [DOOR] and [OPEN] for once and then displays the remaining time with [:] constantly on. If the door is opened under other modes, the screen will go out.
3. Close the door to enter the Ready mode.

4. Pause mode

1. After the opening and closing of the door, or pressing of the [STOP] during cooking, the oven will enter Pause mode. In this case, only the fan and light remain working.
2. The screen displays the remaining time of the current cooking with [:] constantly on.
3. Undertake no operation under the [OP:4X] of user option for some time to enter the Idle mode, or press [STOP] to enter the Ready mode, or press [START] to enter the working mode.

5. End of cook cycle mode

1. After the cooking, the oven will enter the End of cook cycle mode automatically with the screen displaying [DONE].
2. In case of [OP:11] or [OP:12] of user option, the buzzer will beep until the opening and closing of the door or pressing of the [STOP]. In this case, the oven will enter Ready mode. Under the [OP:10], the buzzer will beep for 3 seconds and then the screen displays [READY] until the oven enters Idle mode without any operation for some time.

6. User option mode

1. Open the door and press [2] for 5 seconds. The buzzer will beep once and the oven enter User option mode. (Without setting, the screen will display in default as shown in Appendix A)
2. The screen displays [OP:--].
3. Press 0-9 to enter the correspondent setting.
[Example]: Press [2] to set the volume of buzzer with screen displaying [OP:22].
Continue pressing this button for several times to change the setting.
4. Press [START] to save the current setting and the screen displays [OP:--].
5. Close the door and the microwave oven will enter Ready mode.

7. Microwave cook

1. Under the Ready mode, press [TIME ENTRY] with the screen displaying [00:00].
2. Press 0-9 to input the timing. [Example]: Press [2], [0] and [0] to set as 2 minutes.
3. Press [0% HOLD], [20% DEFROST], [50% MEDIUM] or [70% MED-HI] to select power level the oven will display the related power. If the same button pressed twice, the power will change to 100%. If no power chosen, 100% is default.
4. Press [START] to start cooking. The screen will count down the remaining time of cooking with the correspondent icon constantly on.
5. During cooking, pressing [START] can increase the cooking time by 10 seconds.

8. Preset program cook

1. Open the door, press and hold [1] for 5 minutes and the buzzer will beep for once. In this case, the screen will display [PROGRAM].
2. Press 0-9 to set program. After displaying [OP:0X], the screen will display the time of the numeric button in default.
3. Press 0-9 to input the custom cooking time with the screen displaying the cooking time.
[Example]: Press [1] and [5] for 15 seconds successively.
4. Press [0% HOLD], [20% DEFROST],[50% MEDIUM] or [70% MED-HI] to select power level the oven will display the related power. If the same button pressed twice, the power will change to 100%. If no power chosen, 100% is default.
[Example]: Press [70% MED-HI] to set as 70% of power.
5. Press [X2], the screen will display [CF:08]. And the default cook factor is 80%. If you want to change it, press 0-9 to input the new cook factor. And the screen will display [CF:10], [CF:01], [CF:02], [CF:03].....or [CF:09].
6. Press [START] to save settings, screen displays [PROGRAM]. Close oven door to go back to Ready mode, screen displays [READY].
7. Under the Ready mode, press 0-9 to start cooking directly according to the pre-set time and power.
[Example]: Press [2] and the screen displays [2] for two seconds before displaying time and power in default and counting down for start. In case of no setting as per the step 1~6, the oven will start cooking with the time and power as shown in the Appendix B.
8. In case of [OP:51] mode during cooking, press other numeric buttons to switch the cooking in default.

9. Double quantity cook

1. Press [X2] under the Ready mode with the screen displaying [DOUBLE].
2. Press 0-9 to start setting time increment immediately.
[Example]: Press [5] with the pre-set time of 1:00 and the cooking time will become $1:00 \times (1 + 0.8) = 1:48$. The cook factor is 0.8(80%).
Note: You can also press [X2] within 5 seconds after pressing 0-9 to start Double quantity cooking.

10. Multi-Stage cook

Multi-Stage cook can be set in Microwave cooking and Preset program cooking. Press [TIME ENTRY] to enter the setting of the second stage after setting time and power, and then press [TIME ENTRY] to set the third stage. Three stages at most can be set.

[Example]: Set two-stage cooking programming: 1 minute and 25 seconds for 70% of power at first stage and 5 minutes and 40 seconds for 50% of power at second stage in the way as below.

1. Press [TIME ENTRY] under the Ready mode with the screen displaying [00:00].
2. Press [1], [2] and [5] successively to set time with the screen displaying [1:25].
3. Press [70% MED-HI] with the screen displaying [1:25 70].
4. Press [TIME ENTRY] with the screen displaying [STAGE-2].
5. Press [5], [4] and [0] successively to set time with the screen displaying [5:40].
6. Press [50% MEDIUM] with the screen displaying [5:40 50].
7. Press [START] to start cooking with screen displaying the power and time at first stage followed by the counting-down.
8. After the cooking of first stage finishes, the buzzer will beep for twice with the screen displaying the power and time at second stage followed by counting-down.

Note: If the cooking power is 100%, the screen will not display microwave power.

11. Factory default setting

1. In Ready mode, press and hold [START], then press [0]. The buzzer will beep once. The screen displays [CHECK], the microwave oven start self-inspection.
2. If it is already default setting, the screen displays [11], it will back go back to Ready state after 3 seconds.
3. If it is not default setting, the screen displays [00], press [START] in 10 seconds to restore factory default settings
4. The screen displays [CLEAR], buzzer beep once, the oven will start self-inspection and display corresponding status.

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 | <ul style="list-style-type: none">a. Electrical cord for oven is not plugged in.b. Door is open.c. Wrong operation is set. | <ul style="list-style-type: none">a. Plug into the outlet.b. Close the door and try again.c. Check instructions. |
| Arcing or sparking | <ul style="list-style-type: none">a. Materials to be avoided in microwave oven were used.b. The oven is operated when empty.c. Spilled food remains in the cavity. | <ul style="list-style-type: none">a. Use microwave-safe cookware only.b. Do not operate with oven empty.c. Clean cavity with wet towel. |
| Unevenly cooked foods | <ul style="list-style-type: none">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. | <ul style="list-style-type: none">a. Use microwave-safe cookware only.b. Completely defrost food.c. Use correct cooking time, power level.d. Turn or stir food. |
| Overcooked foods | <p>Cooking time, power level is not suitable.</p> | <p>Use correct cooking time, power level.</p> |
| Undercooked foods | <ul style="list-style-type: none">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. | <ul style="list-style-type: none">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 | <ul style="list-style-type: none">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. | <ul style="list-style-type: none">a. Use microwave-safe cookware only.b. Use correct cooking time, power level.c. Turn or stir food. |

