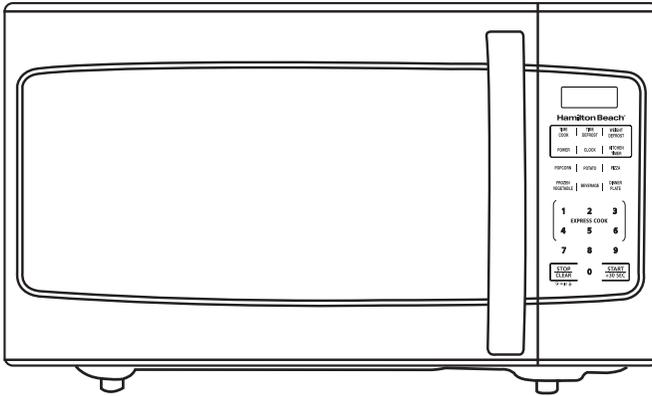


# Hamilton Beach®

## MICROWAVE OVEN

### Owner's Manual



READ BEFORE USE

Model No. EM031M2ZC-X1  
EM031M2ZC-X2  
EM031M2ZC-X3  
EM031M2ZC-X4

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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 as this 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 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.

## Specifications

Model:	EM031M2ZC-X1 / EM031M2ZC-X2 EM031M2ZC-X3 / EM031M2ZC-X4
Rated Voltage:	120V~60Hz
Rated Input Power(Microwave):	1500W
Rated Output Power(Microwave):	1000W
Oven Capacity:	1.1 Cu.ft.
Turntable Diameter:	12.4 inch
External Dimensions:	20.2X17.1X12.1 inch(513X434X306mm)
Net Weight:	ApProx.32.4 Lbs (14.7 kg)

# IMPORTANT SAFEGUARDS

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

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

- Read all instructions before using the appliance.
- Read and follow the specific: "PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY" found on page 2.
- As with most cooking appliances, close supervision is necessary to reduce the risk of a fire in the oven cavity.
- To reduce the risk of fire in the oven cavity:
  - i). Do not overcook food. Carefully attend the appliance when paper, plastic, or other combustible materials are placed inside the oven to facilitate cooking.
  - ii). Remove wire twist-ties and metal handles from paper or plastic containers/bags before placing them in the oven.
  - iii). If materials inside the oven ignite, keep the oven door closed. Turn the oven off, and disconnect the power cord or shut off power at the fuse or circuit breaker panel.
  - iv). Do not use the oven cavity for storage purposes. Do not leave paper products, cooking utensils, or food in the cavity when not in use.
- This oven must be grounded. Connect only to properly grounded outlet. See "GROUNDING INSTRUCTIONS" found on page 4.
- Install or locate this oven only in accordance with the installation instructions provided.
- Some products such as whole eggs or sealed containers may explode and should not be heated in the oven.
- 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, cook or dry food. It is not designed for industrial or laboratory use.
- As with any appliance, close supervision is necessary when used by children.
- 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.
- This appliance should be serviced only by qualified service technicians.
- Contact the nearest authorized service facility for examination, repair or adjustment.
- Do not cover or block any openings on the oven.
- Do not store or use this appliance outdoors.
- Do not use this oven near water, for example, near a kitchen sink, in a wet basement, near a swimming pool, or similar locations.
- Do not immerse cord or plug in water.
- Keep cord away from heated surfaces.
- Do not let cord hang over edge of table or counter.
- When cleaning interior or exterior surfaces, use only mild, nonabrasive, soaps or detergents applied with a sponge or soft cloth.

- Liquids, such as water, coffee, or tea may overheat 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.

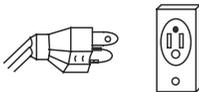
## GROUNDING INSTRUCTIONS

### WARNING-Electrical Shock Hazard

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

Improper grounding can result in electric shock. Do not plug into an outlet until appliance is properly installed and grounded.

Three-pronged  
(grounding) plug



Properly polarized and  
grounded outlet

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.

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. The marked rating of the extension cord shall be equal to or greater than the electrical rating of the appliance.

# Power Supply Cord

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 set 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 countertop or tabletop where it can be pulled on by children or tripped over unintentionally.

## SAVE THESE INSTRUCTIONS

### 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.

## CONTAINERS

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 container in question following the procedure below.

#### Container Test:

1. Place a microwave-safe container filled with 1 cup (250mL) of cold water in the microwave along with the container in question (empty).
2. Cook on maximum power for 1 minute.
3. Carefully feel the container. If the empty container is warm, do not use it for microwave cooking.
4. Do not exceed 1 minute cooking time.

#### CAUTION

##### Personal Injury Hazard

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

## Materials you can use in microwave oven

Materials	Comments
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. 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's instructions. Do not close with metal tie. Make slits to allow steam to escape.
Paper plates and cups	Use for short time 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-time cooking only.
Parchment paper	Use as a cover to prevent splattering or as 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

Materials	Comments
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.

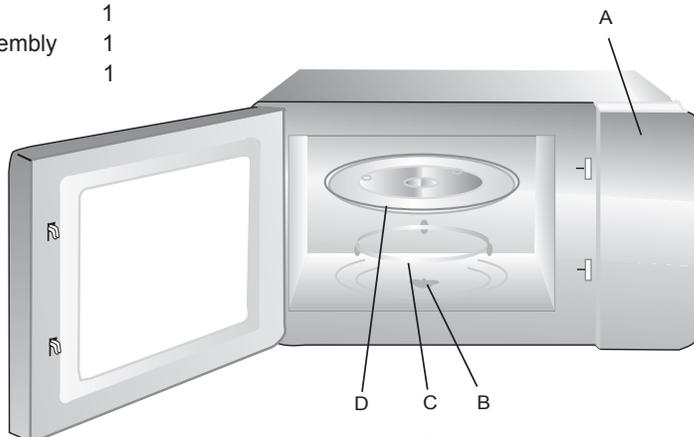
# SETTING UP YOUR OVEN

## Names of Oven Parts and Accessories

Remove the oven and all materials from the carton and oven cavity.

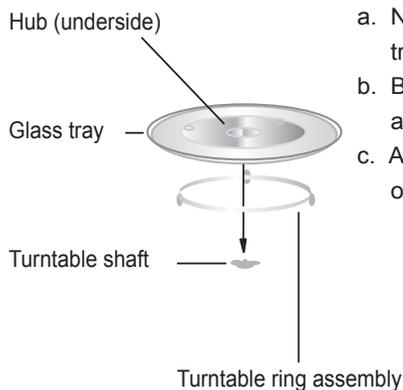
Your oven comes with the following accessories:

Glass tray	1
Turntable ring assembly	1
Instruction manual	1



- A) Control panel
- B) Turntable shaft
- C) Turntable ring assembly
- D) Glass tray

## Turntable Installation



- a. Never place the glass tray upside down. The glass tray should never be restricted.
- b. Both glass tray and turntable ring assembly must always be used during cooking.
- c. All food and containers of food are always placed on the glass tray for cooking.

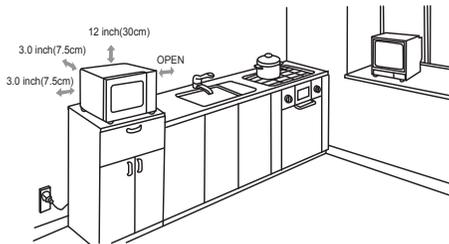
## Before Installation

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 provides enough open space for the intake and/or outlet vents. (7.5cm) is required between the oven and any adjacent walls. One side must be open.

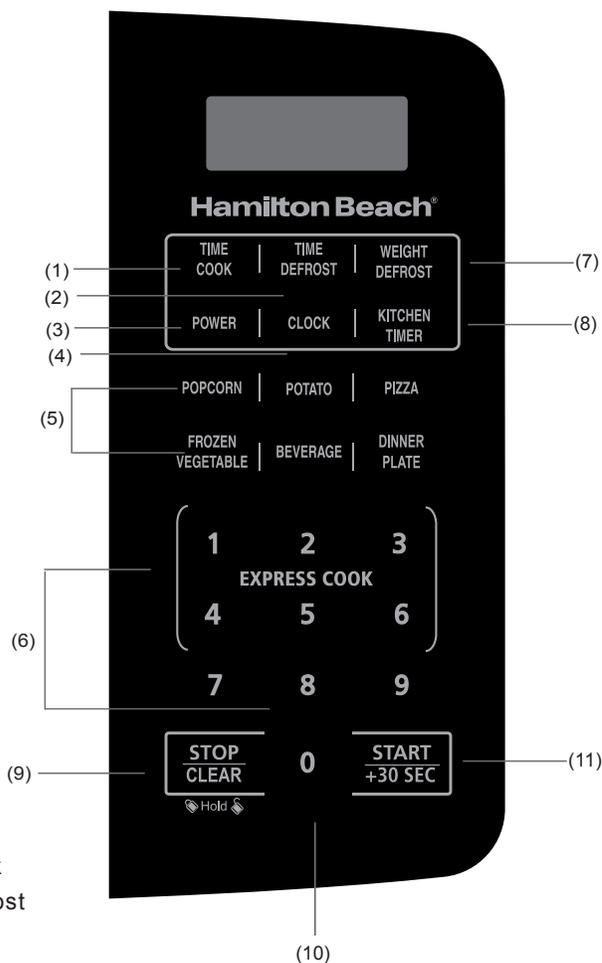


- a. Leave a minimum clearance of 12inches (30cm) above the oven.
  - b. Do not remove the legs from the bottom of the oven.
  - c. Blocking the intake and/or outlet openings can damage the oven.
  - d. Place the oven as far away from radios and TV as possible.  
Operation of microwave oven may cause interferenceto 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 andndthe frequency on the rating label.

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

# OPERATION

## Control Panel and Features



- (1) Time Cook
- (2) Time Defrost
- (3) Power
- (4) Clock
- (5) Auto menu: Popcorn, Potato, Pizza, Frozen Vegetable, Beverage, Dinner Plate
- (6) Number Buttons: 0-9
- (7) Weight Defrost
- (8) Kitchen Timer function
- (9) Stop/Clear: clears all previous settings pressed before cooking starts. During cooking: press once to stop oven; twice to stop and clear all entries.
- (10) 0/Memory function
- (11) Start/+30Sec.

# Operation

## 1. Power Level

The following power levels are available.

Level	10	9	8	7	6	5	4	3	2	1
Power	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%
Display	PL10	PL9	PL8	PL7	PL6	PL5	PL4	PL3	PL2	PL1

## 2. Clock Setting

- (1) Press " CLOCK ," "00:00" will display. 
- (2) Press the number keys and enter the current time. For example, to set the clock to 10:12, press "1,0,1,2". 
- (3) Press " CLOCK " to finish clock setting. ":" will flash and the clock will be lit.
- (4) If the numbers are not within the range of 1:00-12:59, the setting will be invalid until valid numbers are input.

Note:

1. In the process of clock setting, if the " STOP/CLEAR" button is pressed or if there is no operation selected within 1 minute, the oven will go back to the previous setting automatically.
2. If the clock needs to be reset, repeat steps 1- 3.

## 3. Kitchen Timer

- (1) Press "KITCHEN TIMER ," display will show "00:00", the first hour figure flashes. 
- (2) Press the number keys and enter the timer time. (The maximum cooking time is 99 minutes and 99 seconds)
- (3) Press " START/+30SEC. " to confirm setting.
- (4) When the timer time arrives, the buzzer will beep 5 times.  
If the clock is set , the LED will display the current time.

Note: 1. The kitchen timer is a timer and will not display the "Clock."

2. When using the kitchen timer, no other program can be set.

## 4. Microwave Cook

- (1) Press "TIME COOK" once, the display will show "00:00". 
- (2) Press number keys to input the cooking time; the maximum cooking time is 99 minutes and 99 seconds.
- (3) Press " POWER " once, the display will show "PL10". The default power is 100% power. Now you can press number keys to adjust the power level.
- (4) Press " START/+30SEC." to start cooking.

Example: to cook the food with 50% microwave power for 15 minutes.

- a. Press "TIME COOK" once. "00:00" displays.
- b. Press "1", "5", "0", "0" in order.
- c. Press "POWER" once, then press "5" to select 50% microwave power.
- d. Press "START/+30SEC." to start cooking.



Note:

1. In the process of setting, if the " STOP/CLEAR" button is pressed or no operation within 1 minute, the oven will go back to the previous setting automatically.
2. If "PL0" is selected, the oven will work with fan only and no power.
3. During microwave cooking, "POWER" can be pressed to change the power you need. After pressing "POWER", the current power will light for 3 seconds, now you can press number button to change the power. The oven will work with the selected power for the rest of the cooking time.

## 5. Express Cook

- (1) If not already cooking, press number pads 1-6 to quickly cook from 1-6 minutes at 100% power. Press " START/+30SEC." to increase the cooking time; the maximum cooking time is 99 minutes and 99 seconds.
- (2) To cook for 30 seconds at 100% power, press "START/+30SEC". Each press on the the same button will increase cooking time by 30 seconds. The maximum cooking cooking time is 99 minutes and 99 seconds.

Note: During microwave cooking and time defrost, time can be added by pressing "START/+30SEC." button.

## 6. Weight Defrost Function

- (1) Press " WEIGHT DEFROST ," LED will display "dEF1".
- (2) Press number buttons to input weight to be defrosted.  
The weight must be between 4 oz and 100 oz.
- (3) Press " START/+30SEC. " to start defrosting and the cooking time remaining will be displayed.



## 7. Time Defrost Function

- (1) Press " TIME DEFROST, " the display will show "dEF2".
- (2) Press number pads to input defrosting time. The effective time range is 0:01~99:99.
- (3) The default microwave power is power level 3. If you want to change the power level, press " POWER " once, and the display will show "PL 3", then press the number pad of the power level you wanted.
- (4) Press " START/+30SEC. " to start defrosting. The remaining cooking time will be displayed.



## 8. POPCORN

- (1) Press "POPCORN" repeatedly until the package size of your popcorn appears in the display, "1.75", "3.0", "3.5" will display in order.  
For example, press "POPCORN" once, "1.75" appears. 
- (2) Press "START/+30 SEC." to cook, buzzer sounds once. When cooking finished, buzzer will sound five times

## 9. POTATO

- (1) Press "POTATO" repeatedly until the number you wish appears in the display, "1", "2", "3" will display in order.  
"1": 1 potato (approximate 8 oz)   
"2": 2 potatoes (approximate 16 oz)  
"3": 3 potatoes (approximate 24 oz)  
For example, press "POTATO" once, "1" appears.
- (2) Press "START/+30 SEC." to cook, buzzer sounds once. When cooking is finished, a buzzer sounds five times.

## 10. FROZEN VEGETABLE

- (1) Press "FROZEN VEGETABLE" repeatedly until the package size of your vegetables appears in the display, "4.0", "8.0", "16.0" oz will display in order.  
For example, press "FROZEN VEGETABLE" once, "4.0" appears. 
- (2) Press "START/+30 SEC." to cook, buzzer sounds once. When cooking is finished, a buzzer sounds five times.

## 11. BEVERAGE

- (1) Press "BEVERAGE" repeatedly until the number you wish appears in the display, "1", "2", "3" cup will display in order.  
For example, press "BEVERAGE" once, "1" appears. 
- (2) Press "START/+30 SEC." to cook, buzzer sounds once. When cooking is finished, a buzzer sounds five times.

## 12. DINNER PLATE

(1) Press " DINNER PLATE " repeatedly until the number you wish appears in the display, "9.0", "12.0", "18.0" oz will display in order.

For example, press "DINNER PLATE" once, "9.0" appears.



(2) Press "START/+30 SEC." to cook, buzzer sounds once. When cooking is finished, a buzzer sounds five times.

## 13. PIZZA (Reheat)

(1) Press " PIZZA " repeatedly until the weight of your pizza appears in the display, "4.0", "8.0", "14.0" oz will display in order.

For example, press "PIZZA" once, "4.0" appears.



(2) Press "START/+30 SEC." to cook, buzzer sounds once. When cooking is finished, a buzzer sounds five times.

## 14. MEMORY FUNCTION

(1) Press "0" to choose memory setting 1-3. The display will show 1,2,3.

(2) If the setting has been programmed, press " START/ +30 SEC." to use it. If not, continue to choose the setting. Only one or two stages can be set.

(3) After finishing the setting, press "START/ +30 SEC." once to save the setting. Press " START/ +30 SEC." again, it will start cooking.

Example: to program the following setting as the second memory  
to cook food with 80% microwave power for 3 minutes and 20 seconds.

The steps are as follows:

a. In waiting state, press "0" twice, the screen displays "2".

b. Press "TIME COOK" once, then press "3", "2", "0" in order.

c. Press "POWER" once, "PL10" displays, then press "8" and "PL8" displays.

d. Press "START/ +30 SEC." to save the setting. Buzzer sounds once and the LED will display "2". If you press "START/+30SEC." again, the setting will be saved as memory 2 and it will start cooking.

e. If power is lost, the "0" setting will need to be reprogrammed.

f. If you want to run the saved setting, in waiting state, press "0" twice, screen displays "2", then press "START/+30SEC." to run.

## 15. Multi-stage Cooking

At most, 2 stages can be set for cooking. In multi-stage cooking, if one stage is defrosting, then defrosting shall be placed at the first stage automatically.

Note: Auto cooking cannot work in the multi-stage cooking.

Example: if you want to cook with 80% microwave power for 5 minutes + 60% microwave power for 10 minutes. The cooking steps are as following:

- (1) Press "TIME COOK" once, then press "5","0","0" to set the cooking time;
- (2) Press "POWER" once, then press "8" to select 80% microwave power.
- (3) Press "TIME COOK" once, then press "1","0","0","0" to set the cooking time;
- (4) Press "POWER" once, then press "6" to select 60% microwave power.
- (5) Press "START/ +30 SEC." to start cooking.

## 16. INQUIRING FUNCTION

- (1) In microwave or multi-stage cooking state, press " CLOCK ", the display will show the clock for three seconds.
- (2) In the microwave or multi-stage cooking, press " POWER " to inquire microwave power level, and the current microwave power will be displayed. After three seconds, the oven will turn back to the previous state.

## 17. LOCK FUNCTION FOR CHILDREN

Lock: In waiting state, press " STOP/CLEAR " for 3 seconds, there will be a long "beep" denoting the entering into the children-lock state; meanwhile, the display will show

"  ".

Lock Cancel: In locked state, press " STOP/CLEAR " for 3 seconds, there will be a long "beep" denoting that lock is released.

# Troubleshooting

Check your problem by using the chart below and try the solutions for each problem.

<b>TROUBLE</b>	<b>POSSIBLE CAUSE</b>	<b>POSSIBLE REMEDY</b>
Oven will not start	<ul style="list-style-type: none"> <li>a. Electrical cord for oven is not plugged in.</li> <li>b. Door is open.</li> <li>c. Wrong operation is set.</li> </ul>	<ul style="list-style-type: none"> <li>a. Plug into the outlet.</li> <li>b. Close the door and try again.</li> <li>c. Check instructions.</li> </ul>
Arcing or sparking	<ul style="list-style-type: none"> <li>a. Materials to be avoided in microwave oven were used.</li> <li>b. The oven is operated when empty.</li> <li>c. Spilled food remains in the cavity.</li> </ul>	<ul style="list-style-type: none"> <li>a. Use microwave-safe cookware only.</li> <li>b. Do not operate with oven empty.</li> <li>c. Clean cavity with wet towel.</li> </ul>
Unevenly cooked foods	<ul style="list-style-type: none"> <li>a. Materials to be avoided in microwave oven were used.</li> <li>b. Food is not defrosted completely.</li> <li>c. Cooking time, power level is not suitable.</li> <li>d. Food is not turned or stirred.</li> </ul>	<ul style="list-style-type: none"> <li>a. Use microwave-safe cookware only.</li> <li>b. Completely defrost food.</li> <li>c. Use correct cooking time, power level.</li> <li>d. Turn or stir food.</li> </ul>
Overcooked foods	Cooking time, power level is not suitable.	Use correct cooking time, power level.
Undercooked foods	<ul style="list-style-type: none"> <li>a. Materials to be avoided in microwave oven were used.</li> <li>b. Food is not defrosted completely.</li> <li>c. Oven ventilation ports are restricted.</li> <li>d. Cooking time, power level is not suitable.</li> </ul>	<ul style="list-style-type: none"> <li>a. Use microwave-safe cookware only.</li> <li>b. Completely defrost food.</li> <li>c. Check to see that oven ventilation ports are not restricted.</li> <li>d. Use correct cooking time, power level.</li> </ul>
Improper defrosting	<ul style="list-style-type: none"> <li>a. Materials to be avoided in microwave oven were used.</li> <li>b. Cooking time, power level is not suitable.</li> <li>c. Food is not turned or stirred.</li> </ul>	<ul style="list-style-type: none"> <li>a. Use microwave-safe cookware only.</li> <li>b. Use correct cooking time, power level.</li> <li>c. Turn or stir food.</li> </ul>

## **ONE YEAR LIMITED WARRANTY**

This is the only express warranty for this product and is in lieu of any other warranty. This product carries a warranty that it will be free from defects in material and workmanship for a period of one year from the date of purchase. This warranty is valid for the original retail purchaser or gift recipient from the date of initial retail purchase and is not transferable. Keep your original sales receipt as proof of purchase is required to make a warranty claim.

**IMPORTANT:** This warranty does not cover damages resulting from use not in conformity with the printed directions, accident, misuse or abuse, alternation, the affixing of any attachments not provided with the product, loss of parts, or subjecting the appliance to any but the specified voltage. (Read directions carefully.)

If service is required during the warranty period, properly pack your unit. We recommend using the original carton and packing materials. Within 90 days from point of purchase, return the product to your nearest Walmart store with the sales receipt. A replacement or refund may be offered at the discretion of Walmart. For service after 90 days, up to 1 year from the point of purchase, contact customer assistance at: 1-855-313-1612.

For faster service, locate the model number and product name on your appliance.

Walmart expressly disclaims all responsibility for consequential damages or incidental losses caused by use of the appliance. **Every implied warranty, including any statutory warranty of merchantability or fitness for a particular propose, is disclaimed except to the extent prohibited by law, in which case such warranty is limited to the duration of this written warranty.** Some states do not allow this exclusion or limitation of incidental or consequential losses so the foregoing disclaimer may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

### **SAVE THIS FOR YOUR RECORDS**

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