

Microwave Oven

INSTRUCTION MANUAL

MODEL: EM048K6CE-P

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	EM048K6CE-P
Rated Voltage/Frequency	120VAC 60Hz
Microwave Input	1550 W
Microwave Output	1000 W

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 5.
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. "HOT CONTENTS CAN CAUSE SEVERE BURNS. DO NOT ALLOW CHILDREN TO USE THE MICROWAVE. Use caution when removing hot items."
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.
18. Oversized food or oversized metal utensils should not be inserted in a microwave/toaster oven as they may create a fire or risk of electric shock.
19. Do not clean with metal scouring pads. Pieces can burn off the pad and touch electrical parts involving a risk of electric shock.
20. Do not use paper products when appliance is operated in the toaster mode.
21. Do not store any materials, other than manufacturer's recommended accessories, in this oven when not in use.
22. Do not cover racks or any other part of the oven with metal foil. This will cause overheating of the oven.
23. Clean Ventilation Hoods Frequently - Grease should not be allowed to accumulate on hood or filter.
24. When flaming foods under the hood, turn the fan on.
25. Use care when cleaning the vent-hood filter. Corrosive cleaning agents, such as lye-based oven cleaners, may damage the filter.
26. Suitable for use above both gas and electric cooking equipment.

**SAVE THESE INSTRUCTIONS
HOUSEHOLD USE ONLY
(NOT FOR COMMERCIAL USE)**

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. This device complies with Part 18 of the FCC Rules.
2. Operation of the microwave oven may cause interference to your radio, TV or similar equipment.
3. 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.
4. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 18 of the FCC Rules.

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.

CLEANING

Be sure to unplug the appliance from the power supply.

1. Clean the cavity of the oven after using with a slightly damp cloth.
2. Clean the accessories in the usual way in soapy water.
3. The door frame and seal and neighbouring parts must be cleaned carefully with a damp cloth when they are dirty.
4. Do not use harsh abrasive cleaners or sharp metal scrapers to clean the oven door glass since they can scratch the surface, which may result in shattering of the glass.
5. Cleaning Tip---For easier cleaning of the cavity walls that the food cooked can touch: Place half a lemon in a bowl, add 300ml (1/2 pint) water and heat on 100% microwave power for 10 minutes. Wipe the oven clean using a soft, dry cloth.

Materials you can use in microwave oven

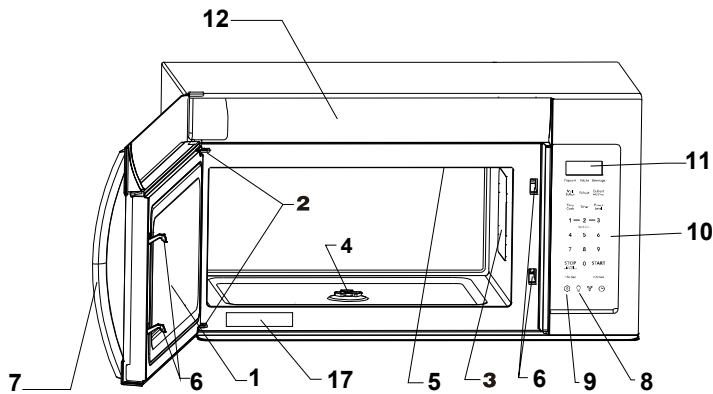
Utensils	Remarks
Browning dish	Follow manufacturer* instructions. The bottom of browning dish must be at least 3/16 inch (5mm) above the turntable. Incorrect usage may cause the turntable to break.
Dinnerware	Microwave-safe only. Follow manufacturer's instructions. Do not use cracked or chipped dishes.
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 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* 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

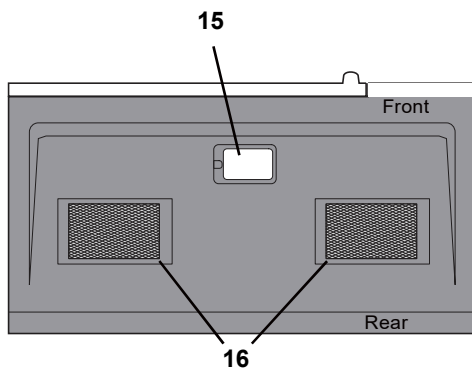
Utensils	Remarks
Aluminum tray	May cause arcing. Transfer food into microwave-safe dish.
Food carton with metal handle	May cause arcing. Transfer food into microwave-safe dish.
Metal or metal-trimmed utensils	Metal shields the food from microwave energy. Metal trim may cause arcing.
Metal twist ties	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.

PART NAMES

FRONT VIEW

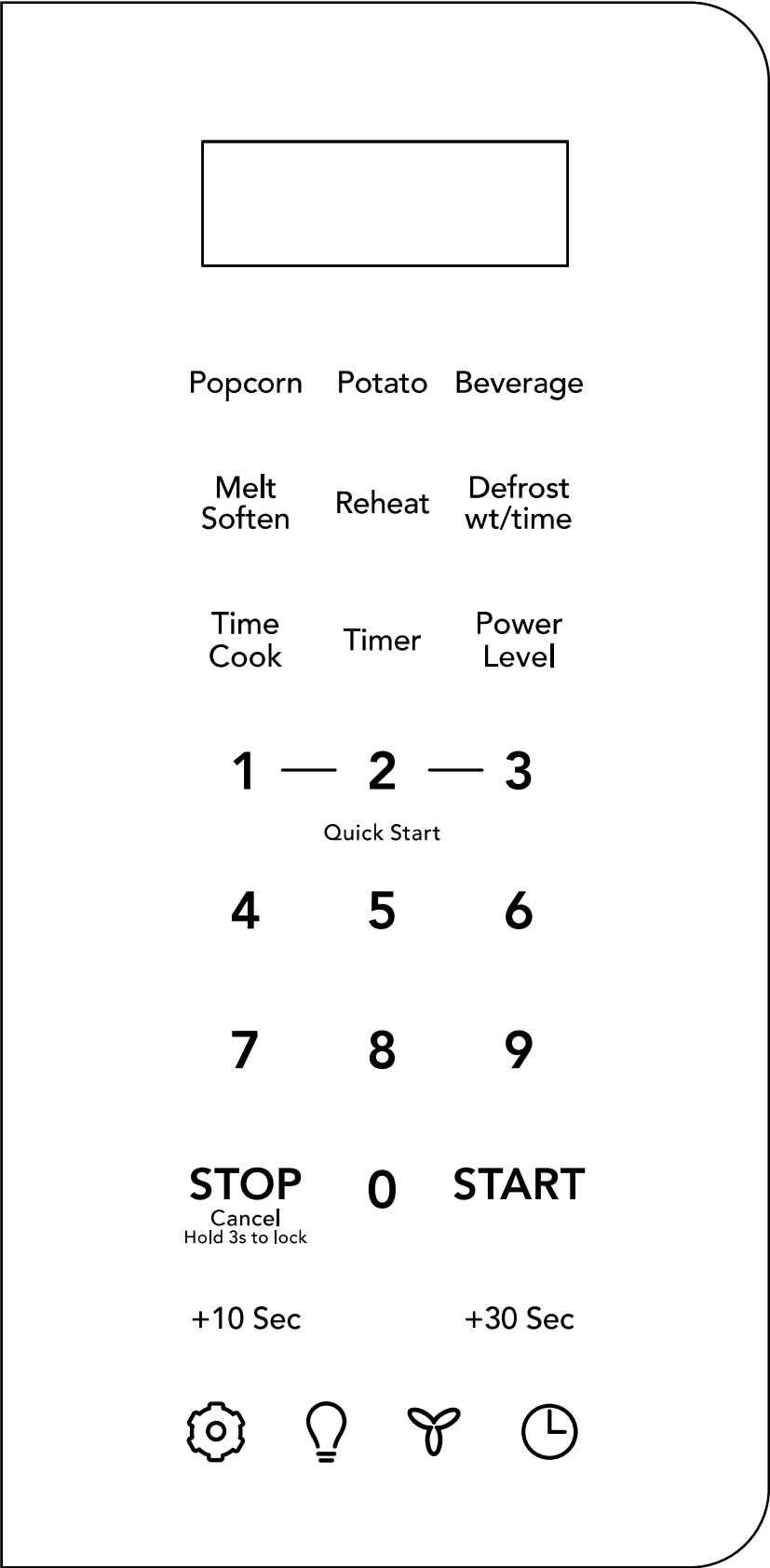


BOTTOM VIEW



- 1 Microwave oven door with see-through window
- 2 Door hinges
- 3 Waveguide cover:
DO NOT REMOVE.
- 4 Turntable motor shaft
- 5 Microwave oven light
It will light when microwave oven is operating or door is open.
- 6 Safety door latches
The microwave oven will not operate unless the door is securely closed.
- 7 Handle
- 8 Light on/off pad
- 9 Vent hi/lo/off pad
Press the vent hi/lo/off pad once for high speed, twice for low speed and three times to turn off the fan.
- 10 Auto-Touch control panel
- 11 Time display: Digital display, 99minutes, 99 seconds
- 12 Ventilation openings
- 13 Removable turntable
The turntable will rotate clockwise or counter-clockwise. Only remove for cleaning.
- 14 Removable turntable support
First, carefully place the turntable support in the motor shaft in the center of the microwave oven floor. Place the support ring on the microwave oven floor. Then, place the turntable on the turntable support securely.
- 15 Light cover
- 16 Grease filters
- 17 Menu label

CONTROL PANEL



MANUAL COOKING

- Before operating your new oven make sure you read and understand this INSTRUCTIONS completely.
- The clock can be disabled when the microwave is first plugged in and **STOP** Cancel
Hold 3s to lock is selected.

To re-enable the clock follow clock instructions.

Setting the Clock

- Suppose you want to enter the correct time of day 10:59

Touch:	Display Shows:
1. X1	12:00
2.	10:59 PRESS START
3. START or	10:59

Setting the Kitchen Timer

Your microwave oven can be used as a kitchen timer. You can set up to 99 minutes, 99 seconds. The kitchen timer can be used while the microwave oven is running.

- Suppose you want to set for three minutes.

Touch:	Display Shows:
1. Timer X1	TIMER : 0
2.	TIMER 3:00
3. Timer	TIMER 3:00 Time counting down

Time cook

Your Over the Range Microwave Oven can be programmed for 99 minutes 99 seconds (99 :99). Always enter the seconds after the minutes, even if they are both zeros.

- Suppose you want to cook for 5 minutes at 90% power.

Touch:	Display Shows:
1. Time Cook X1	: 0
2.	5:00 PRESS START
3. Power Level X1	P-HI PRESS START
4. Power Level X1 or	P-90 PRESS START
5. START	COOK 5:00 Time counting down

POWER CHART

PRESS	POWER LEVEL	DISPLAY
POWER LEVEL x 1	100%	P-HI
POWER LEVEL x 2	90%	P-90
POWER LEVEL x 3	80%	P-80
POWER LEVEL x 4	70%	P-70
POWER LEVEL x 5	60%	P-60
POWER LEVEL x 6	50%	P-50
POWER LEVEL x 7	40%	P-40
POWER LEVEL x 8	30%	P-30
POWER LEVEL x 9	20%	P-20
POWER LEVEL x 10	10%	P-10
POWER LEVEL x 11	0%	P-0

MANUAL COOKING

Popcorn

“3.3oz, 3.0oz, 1.75oz” are available.

- In standby mode, during clock or timer.
Suppose you want to cook 3.3 oz popcorn.

Touch:	Display Shows:
1. Popcorn X1	SEE MENU LABEL PRESS START 3.3 oz

2. **START** Time counting down

Press Popcorn pad	Amount
X1	3.3 oz
X2	3.0 oz
X3	1.75 oz

Potato

“1, 2, 3, 4” are available.

Touch:	Display Shows:
1. Potato X1	SEE MENU LABEL PRESS START 1

2. **START** Time counting down

Press Potato pad	Amount
X1	1
X2	2
X3	3
X4	4

Beverage

“1-2 cup” are available.

- In standby mode, during clock or timer.
Suppose you want to cook 2 cups of beverage.

Touch:	Display Shows:
1. Beverage X2	SEE MENU LABEL PRESS START 2CUP

2. **START** Time counting down

Press Beverage pad	Amount
X1	1 cup
X2	2 cups

Melt/Soften

The oven uses low power to melt and soften items.
See the following table.

- Suppose you want to melt 2 sticks of Butter.

Touch:	Display Shows:
1. Melt Soften X1	SEE MENU LABEL 50-1
2. ②	PRESS START 2

3. **START** Time counting down

Press Melt Soften pad	Food	Amount(number key)
X1	So-1 Melt Butter	1/2 stick (1/2)
X2	So-2 Melt Chocolate	2/4/8 oz (1/2/3)
X3	So-3 Softening Ice Cream	Pint/1.5 Quart (1/2)
X4	So-4 Softening Cream Cheese	3/8 oz (1/2)

MANUAL COOKING

Reheat

"8oz, 16oz" are available.

- In standby mode, during clock or timer.
Suppose you want to reheat for 16 Oz.

Touch	Defrost wt/time pad	Display Shows:
1. Reheat X2		SEE MENU LABEL PRESS START 16 oz
2. START		Time counting down

Press Reheat pad	Amount
X1	8 oz
X2	16 oz

Defrost By Time

- In standby mode, during clock or timer.
Suppose you want to defrost for 10 minutes and 59 seconds.

Touch	Defrost wt/time pad	Display Shows:
1. Defrost wt/time X2		SEE MENU LABEL 0:00
2. (1) (0) (5) (9)		PRESS START 10:59
3. START		Time counting down



NOTE

The buzzer will sound to remind you to turn the food over during defrosting. If no operation, the oven will continue working.

Defrost By Weight

"0.1lb~6.0lb" are available.

- In standby mode, during clock or timer.
Suppose you want to defrost for 1.2 lb.

Touch	Defrost wt/time pad	Display Shows:
1. Defrost wt/time X1		SEE MENU LABEL 0.0
2. (1) (2)		PRESS START 1.2 lb
3. START		Time counting down

Press number pad	Amount
0~9	0.1~6.0 lb

Speedy cooking

Express 1-3

In standby mode, during clock or timer, press the number pads "1-3" directly to start correspond microwave cooking at "1-3" minutes for 100% power level after 2 seconds.

- Suppose you want to set speedy cooking with 3 minutes.

Touch:	Display Shows:
1. (3) X1	PRESS START : 3



NOTE

"Food" will be displayed if a speedy cooking cycle is not selected within 5 minutes of placing food in the microwave. You must open then close the door again to clear "Food" from the display.

MANUAL COOKING

Press "+10Sec, +30Sec"

- In standby mode or during clock, press **+10 Sec** or **+30 Sec** directly to start microwave cooking for 100% power level.

Touch:	Display Shows:
1. +30 Sec X1	COOK :30



NOTES

Press **+10 Sec** or **+30 Sec** to increase the correspond time during microwave cooking. The maximum time value is "99:99".

Stage cook

In standby mode, during clock or timer.

Cook with 90% microwave power for 10 minutes and 59 seconds and then cook with 80% microwave power for 10 minutes and 50 seconds.

Touch:	Display Shows:
1. Time Cook X1	: 0
2. (1) (0) (5) (9)	PRESS START 10:59
3. Power Level X1	PRESS START P-H1
4. Power Level X1 or (9)	PRESS START P-90
5. Time Cook X1	: 0
6. (1) (0) (5) (0)	PRESS START 10:50
7. Power Level X1	PRESS START P-H1
8. Power Level X2 or (8)	PRESS START P-80

9. **START** Time counting down



NOTE

Most two stage of microwave cooking can be set.

Lock Function for Children

You can use this function to disable the screen buttons and prevent your child from accidentally turning the oven on.

In standby mode, to activate the lock:

Touch:	Display Shows:
1. STOP Cancel Hold 3s to lock (for 3 seconds)	LOCK 10:00 (the current time)

In the locked state, to deactivate the lock:

Touch:	Display Shows:
1. STOP Cancel Hold 3s to lock (for 3 seconds)	10:00 (the current time)

MANUAL COOKING

Vent Fan

The pad controls the 2-speed vent fan. If the vent fan is OFF, the first touch of the Vent pad will turn the fan on HIGH, second touch LOW and third touch OFF.

Touch:	Display Shows:
1.  X1	HI
2.  X2	Lo
3.  X3	OFF

Light

The pad controls the cooktop light. If the light is OFF the first touch of the light pad will turn the light ON, second touch will turn the light OFF.

Touch:	Display Shows:
1.  X1	on
2.  X2	OFF

USER PREF

Key press	Option
 x1	Volume
 x2	Weight
 x3	Demo Mode On/Off
 for 3 seconds	Clock Display on/off

Setting Volume Low/Med/High/Off

Touch:	Display Shows:
1.  X1	SEE MENU LABEL PRESS START 0P-1
2. START	PRESS START Lo
	PRESS START nor (2 seconds later)
	PRESS START HI (2 seconds later)
	PRESS START OFF (2 seconds later)
3. START	Lo or nor or HI or OFF

Setting Weight Lb/Kg

- Suppose you want to toggle weight between pounds & kilograms.

Touch:	Display Shows:
1.  X2	SEE MENU LABEL PRESS START 0P-2
2. START	PRESS START 0P-2 _{lb}
	PRESS START 0P-2 _{kg} (2 seconds later)
3. START	0P-2 _{lb} or 0P-2 _{kg}

MANUAL COOKING

Setting Demo Mode On/Off

- Suppose you want to enter Demo mode. When Demo mode is ON programming functions will work in a rapid countdown mode with no cooking power.

Touch:	Display Shows:
1.  X3	SEE MENU LABEL PRESS START 
2. START	PRESS START  PRESS START  (2 seconds later)
3. START	 or 

Inquiring Function

- (1) If the clock or timer has been set, the corresponding time will display for 2 seconds by pressing  or **Timer** in the cooking state.
- (2) In the microwave cooking state press  to inquire about the power level. It will display for 2 seconds.

Setting Clock Display On/Off

Touch:	Display Shows:
1.  (for 3 seconds)	 or 

NOTES

In standby mode, the clock is not set and it cannot be set in the state of “ON”.

In standby mode, the clock do not display in the state of “OFF”.

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.