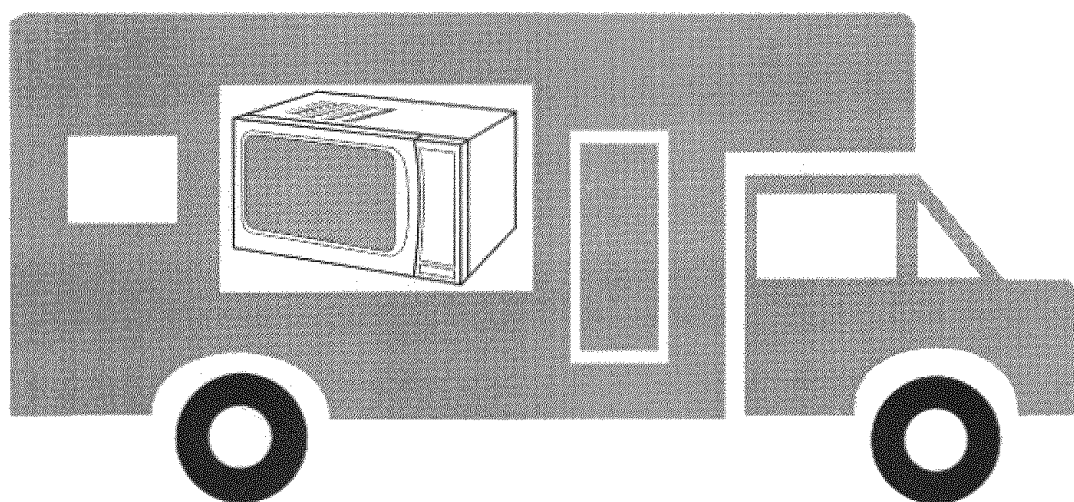


Panasonic®

Operating Instructions

***Microwave/Convection Oven
Model NN-C867BV/NN-C867WV***



Before operating this oven, please read these instructions completely.

Thank you for purchasing the Panasonic Microwave/Convection Oven.
Let's Start to Use Your Oven! — page 12.

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. Under normal condition the oven will not operate with the door open.
- (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 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.

EXAMINE YOUR OVEN

Unpack oven, remove all packing material.

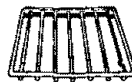
Examine the oven for any damage such as dents, broken door latches or cracks in the door. Check that none of the accessories are missing, by following the list below.

Roller Ring



To be used for Microwave and Combination cooking with Glass Tray.

Oven Rack



To be used for Bake and Broil cooking.

Glass Tray



To be used for Microwave and Combination cooking with Roller Ring.

Operating Instructions

Cookbook

Notify dealer immediately if oven is damaged. **DO NOT** install if oven is damaged.

The serial number of this product may be found on the right side of the oven door opening. You should note the model number and the serial number of this oven in the space provided and retain this book as a permanent record of your purchase for future reference.

Model No. _____

Serial No. _____

Date of Purchase _____

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IMPORTANT SAFETY INSTRUCTIONS

Your microwave oven is a cooking device and you should use as much care as you use with a stove or any other cooking device. When using this electric appliance, 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 "**PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY,**" found on page 2.
3. This appliance must be grounded. Connect only to a properly grounded outlet. See "**Grounding Instructions**" found on page 5.
4. Install or locate this appliance only in accordance with the installation instructions found on page 5.
5. Do not cover or block any openings on this appliance.
6. Do not store or use this appliance outdoors. Do not use this product near water—for example, near a kitchen sink, in a wet basement, or near a swimming pool, and the like.
7. Use this appliance only for its intended use as described in this manual. Do not use corrosive chemicals or vapors in this appliance. This type of oven is specifically designed to heat, or cook food. It is not designed for industrial or laboratory use.
8. When cleaning surfaces of door and oven that come together on closing the door, use only mild, non-abrasive soaps or detergents applied with a sponge or soft cloth.
9. As with any appliance, close supervision is necessary when used by children.
10. 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.
11. Do not immerse cord or plug in water.
12. Keep cord away from heated surfaces.
13. Do not let cord hang over edge of table or counter.
14. This appliance should be serviced only by qualified service personnel. Contact the nearest authorized service facility for examination, repair or adjustment.
15. Some products such as whole eggs and sealed containers (for example, closed glass jars) may explode and should not be heated in this oven.
16. To reduce the risk of fire in the oven cavity:
 - (a) Do not overcook food. Carefully attend appliance if paper, plastic, or other combustible materials are placed inside the oven to facilitate cooking.
 - (b) Remove wire twist-ties from paper or plastic bags before placing bag in oven.
 - (c) If materials inside the oven should ignite, keep oven door closed, turn oven off, and disconnect the power cord, or shut off power at the fuse or circuit breaker panel.

(d) 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. Use extreme caution when removing oven accessories or cooking containers from oven or disposing of hot grease.
18. **To avoid the possible risk of a burn,** the appliance must not be used in areas such as island-type countertops where the rear surfaces would be exposed to user contact and the appliance must be placed more than 3 feet (85 cm) above the floor.

General Use

1. **DO NOT** tamper with or make any adjustments or repairs to the door, control panel housing, safety interlock switches or any other part of the oven.
DO NOT remove outer panel from oven. Repairs should only be done by qualified service person.
2. **DO NOT** use the microwave function when the oven is empty. The microwave energy will reflect continuously throughout the oven, if food or water is not present to absorb energy. This could damage the oven and result in the danger of a fire.
3. **DO NOT** use this oven to heat chemicals or other non-food products. **DO NOT** clean this oven with any product that is labeled as containing corrosive chemicals. **The heating of corrosive chemicals in this oven can cause radiation leaks.**
4. **DO NOT** dry clothes, newspapers or other materials in the oven. They may catch on fire.
5. **DO NOT** use recycled paper products unless the paper product is labeled as safe for microwave oven use. Recycled paper products may contain impurities which may cause sparks and/or fires when used.
6. **DO NOT** use newspapers or paper bags for cooking. Fire can result.
7. **DO NOT** hit or strike the control panel. Damage to the controls may occur. Fire can result.
8. **DO NOT** store flammable materials next to, on top of, or in the oven. These could be fire hazards.
9. **POT HOLDERS** may be needed when handling dishes. Heat is transferred from the hot food to the cooking container and from the cooking container to Glass Tray. Glass Tray can be very hot after removing cooking container from oven.
10. Before using the **BAKE, COMBINATION** or **BROIL** functions for the first time, operate the oven without food on **BROIL** for 20 minutes. This will allow the oil that is used for rust protection to be burned off.
11. Door and exterior will get hot during **BAKE, COMBINATION** and **BROIL**. Please handle door carefully.

SAVE THESE INSTRUCTIONS

Installation & GROUNDING INSTRUCTIONS

Installation of Your Oven

1. This oven is designed for installation into a wall cabinet by using the proper trim kit (NN-TK800/NN-TK850) available from a local Panasonic dealer. Follow all installation instructions packed with trim kit.
2. This oven must be installed so that no part is located less than 5 feet (1.52 m) above floor level.
3. **DO NOT** block air vents. If they are blocked during operation, the oven may overheat. If the oven overheats, a thermal safety device will turn the oven off. The oven will remain inoperable until it has cooled.
4. This oven was manufactured for household use only.

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 plug can result in a risk of electric shock.

Consult a qualified electrician or service person if the grounding instructions are not completely understood, or if it is uncertain whether the appliance is properly grounded or not.

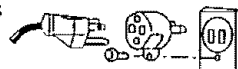
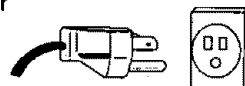
If it is necessary to use an extension cord, use only a three wire extension cord that has a three-blade grounding plug, and a three-slot receptacle that will accept the plug on the appliance. The marked rating of the extension cord should be equal to, or greater than, the electrical rating of the appliance.

Power Supply

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, and (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 accidentally.

Wiring Requirements

1. The oven must be on a **SEPARATE CIRCUIT**. No other appliance should share the circuit with the microwave oven. If it does, the branch circuit fuse may blow or the circuit breaker may trip, or the food may cook slower than recommended in this manual.
2. The **VOLTAGE** used must be the same as specified on this microwave oven (120 V). Using a higher voltage is dangerous and may result in a fire or other accident causing oven damage. Using a lower voltage will cause slow cooking. Panasonic is **NOT** responsible for damage resulting from the use of the oven with other than specified voltage.
3. The oven must be plugged into at least a **20 AMP, 120 VOLT, 60 Hz GROUNDED OUTLET**. Where a standard two-prong outlet is encountered, it is the personal responsibility and obligation of the consumer to have it replaced with a properly grounded three-prong outlet.
4. A **TEMPORARY CONNECTION** with a two-prong adapter may be made where **LOCAL CODES PERMIT** it. Unless the cover screw is grounded through the house wiring, attaching the adapter grounding plate to the cover screw will not ground the oven. If there is any doubt that the cover screw is grounded, have it checked by an electrician.



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:
 - a. Clean door and sealing surfaces of the oven. (See Care of Your Microwave Oven found on page 29.)
 - b. Place the radio, TV, etc. away from the microwave oven as far as possible.
 - c. Use a properly installed antenna to obtain stronger signal reception.

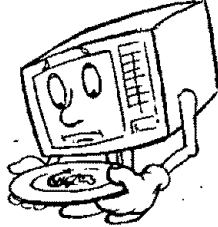
Practical Hints

Before Operation

Follow These Safety Precautions When Cooking in Your Oven

1) HOME CANNING/DRYING FOODS/SMALL QUANTITIES OF FOODS

- Do not use your combination oven for home canning or the heating of any closed jar. Pressure will build up and the jar may explode. In addition, the combination oven cannot maintain the food at the proper canning temperature. Improperly canned food may spoil and be dangerous to consume.



- Small quantities of food or foods with low moisture content can dry out, burn on catch on fire. If a fire occurs, turn oven off and leave oven door closed. Disconnect the power cord or shut off power at the fuse or circuit breaker panel.
- Do not dry meats, herbs, fruits or vegetables in your oven.

IMPORTANT

Proper cooking depends on time set and weight of food. If you use a smaller portion than recommended and cook at the time for the recommended portion, fire can result. If a fire occurs, turn oven off and leave oven door closed. Disconnect the power cord or shut off power at the fuse or circuit breaker panel.

2) POPCORN

Popcorn must be popped in a microwave oven corn popper. Microwave popcorn which pops in its own package is also available. Follow popcorn manufacturers' directions and use a brand suitable for the wattage of your combination oven. Never leave oven unattended when popping popcorn.

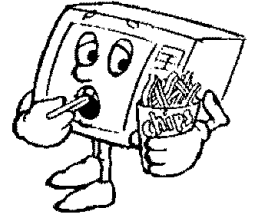
CAUTION:

When using pre-packaged microwave popcorn, follow recommended package instructions.

Check package weight before using the popcorn pad. Set the oven for the weight of the popcorn package. (see page 24)
If these instructions are not followed, the popcorn may not pop adequately or may ignite and cause a fire.

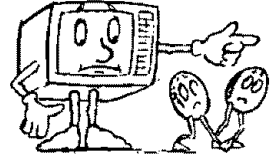
3) DEEP FAT FRYING

- Do not attempt to deep fat fry in your microwave oven. Oil can be heated beyond ideal temperatures very quickly in a microwave oven. Temperatures can climb high enough for the cooking oils to reach their respective flash points and burst into flames. The heated oil may bubble and spatter causing possible damage to the oven and perhaps resulting in burns. Additionally, microwave-safe utensils may not be able to withstand the temperature of the hot oil, and could result in the utensil shattering if it contains even a slight imperfection, scratch or chip.



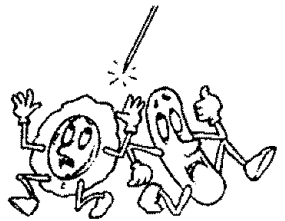
4) EGGS

- Do not heat eggs in their shell in a microwave oven. Pressure will build up and the eggs will explode.



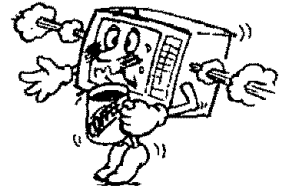
5) FOODS WITH NONPOROUS SKINS

- Potatoes, apples, egg yolks, whole squash and sausages are examples of foods with nonporous skins. This type of food must be pierced before cooking, to prevent their bursting.



6) LIQUIDS

- Heated liquids can erupt if not mixed with air. Do not heat liquids in your microwave oven without first stirring.



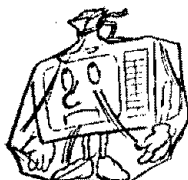
Practical Hints

7) GLASS TRAY/COOKING UTENSILS/FOIL

- Cooking utensils get hot during cooking. Use potholders when removing utensils and Glass Tray from the oven or when removing lids or plastic wrap covers from cooking utensils to avoid burns.
- Glass Tray will get hot during cooking. It should be allowed to cool before handling or before paper products, such as paper plates, napkins or microwave popcorn bags, are placed in the oven for microwave cooking.
- During cooking, heat is transferred from the hot food to the cooking utensil and from the utensil to Glass Tray. Glass Tray can be very hot after removing cooking utensils from oven.
- When using foil, skewers, warming rack or utensils made of metal in the oven, allow at least 1-inch (2.5 cm) of space between metal material and interior oven walls. If arcing occurs (sparking) remove metal material (skewers etc.) and/or transfer to a non-metallic container.
- Dishes with metallic trim should not be used during Microwave or Combination cooking, arcing may occur.

8) PAPER TOWELS/CLOTHS

- Do not use paper towels or cloths which contain a synthetic fiber woven into them. The synthetic fiber may cause the towel to ignite.



- Do not use paper bags or recycled paper products in the microwave oven.

9) BROWNING DISHES/OVEN COOKING BAGS

- Microwave browning dishes or grills are designed for microwave cooking only. Preheating times vary depending on the size of the browning dish and food being cooked. Always follow instructions provided by the browning dish or grill manufacture. Do not preheat browning dish more than 8 minutes.
- If an oven cooking bag is used for Microwave cooking, prepare according to package directions. Do not use wire twist-tie to close bag. Instead use nylon tie, a piece of cotton string or a strip cut from the open end of the bag. Make six 1/2-inch slits by closure. Place oven cooking bag in a dish slightly larger than the food being cooked.

10) THERMOMETERS

- Do not use a conventional meat thermometer for Microwave or Combination cooking. Arcing may occur. Do not use a Microwave meat thermometer for Combination cooking or Bake. It may melt.

11) BABY FORMULA/FOOD

- Do not heat baby formula or food in the microwave oven. The glass jar or surface of the food may appear warm while the interior can burn the infant's mouth and esophagus.

12) REHEATING PASTRY PRODUCTS

- When reheating pastry products, check temperatures of any fillings before eating. Some foods have fillings which heat faster and can be extremely hot while the surface remains warm to the touch (ex. Jelly Donuts).

13) GENERAL OVEN USAGE GUIDELINES/OVEN DOOR

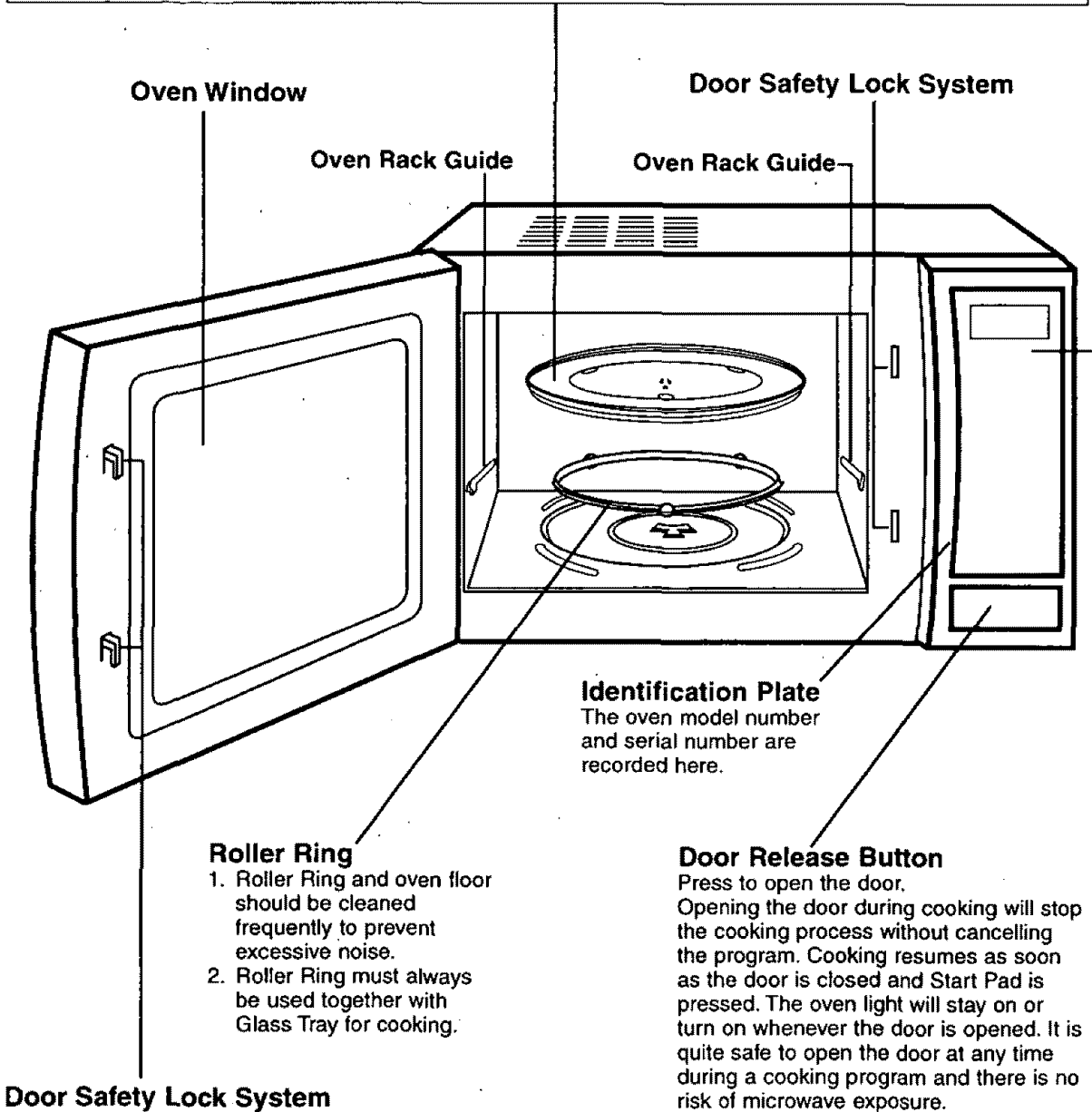
- Do not use the oven for any reason other than the preparation of food.
- Do not leave oven unattended while in use.
- The oven door and the interior walls will get hot during Combination, Bake and Broiling.

Feature Diagram

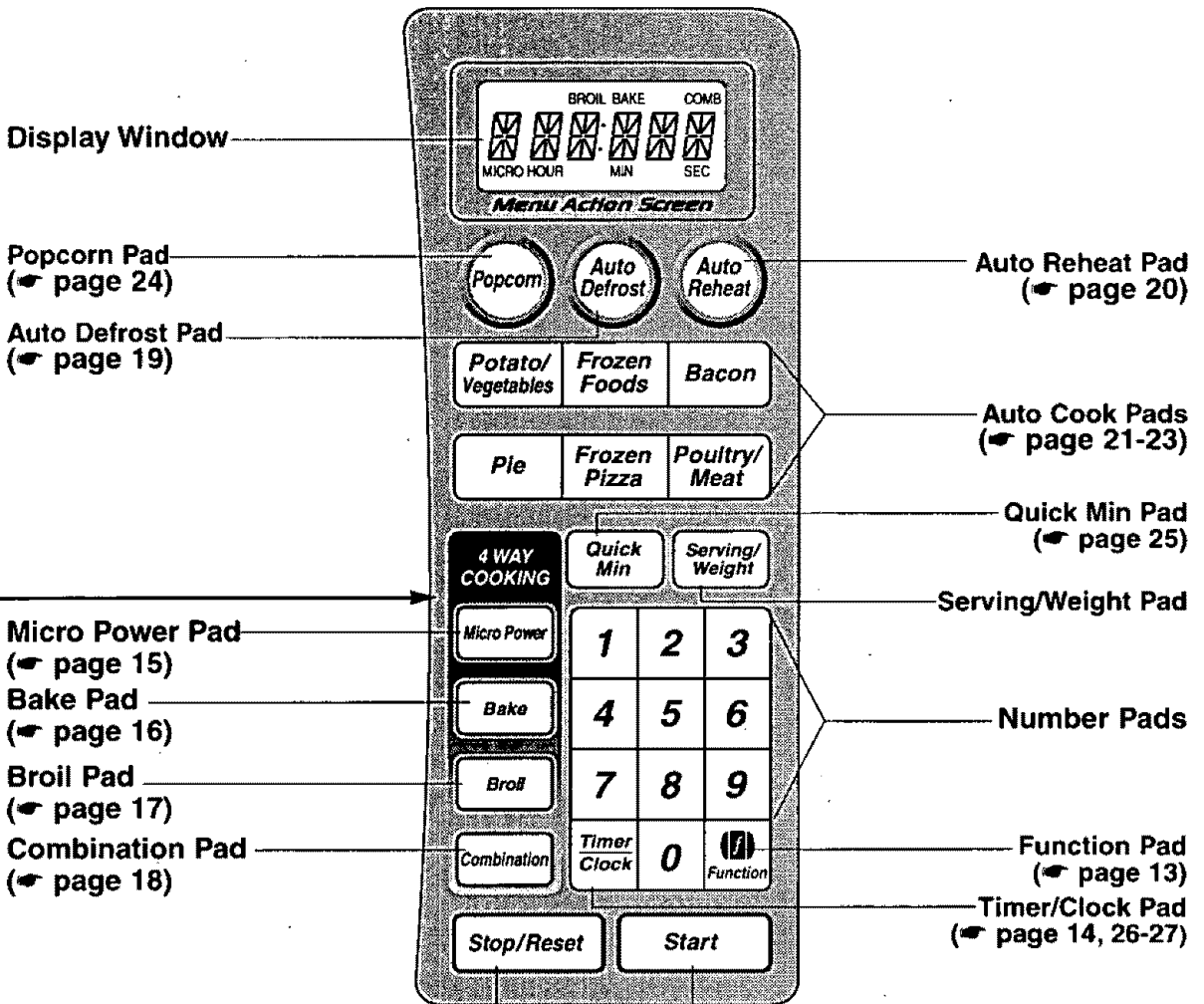
Before Operation

Glass Tray

1. Only use Glass Tray specifically designed for this oven. Do not substitute any other glass tray.
2. If Glass Tray is hot, allow to cool before cleaning or placing in water.
3. Do not cook directly on Glass Tray unless otherwise indicated. Always place food in a microwave-safe dish, or on a rack set in a microwave-safe dish.
4. If food or utensil on Glass Tray touches the oven walls, causing the tray to stop moving, the tray will automatically rotate in the opposite direction. This is normal.
5. Glass Tray can rotate in either direction.



Control Panel



Stop/Reset Pad
Before cooking: One tap clears your instructions.
During cooking: One tap temporarily stops the cooking process. Another tap cancels all your instructions and time of day appears in the display window.

Start Pad
 One tap allows oven to begin functioning. If door is opened or STOP/RESET Pad is tapped once during oven operation, START Pad must again be pressed to restart oven.

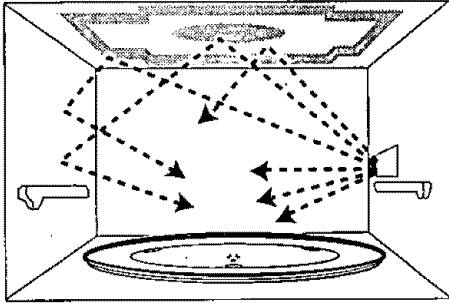
Prompters:
 When a pad is pressed, a beep sound is heard and the corresponding letter or word(s) appear and roll across the screen. If a pad is pressed and no beep is heard, the unit does not or cannot accept the instruction. As each pad is pressed the corresponding word(s) roll across the screen. Words will automatically appear to prompt user to perform the next step. It is not necessary to wait for the words to appear before pressing pads for the next step. A two beep sound is heard between stages. At the end of any complete program, the oven will beep five times.

Cooking Modes: Heating Source

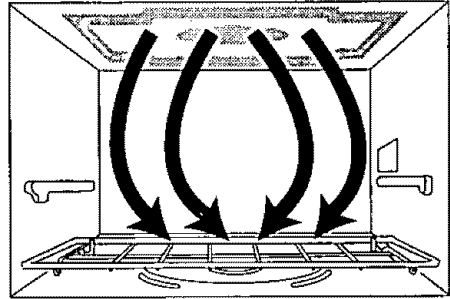
The diagram below shows examples of the accessories. Use of these accessories may vary depending on the recipe/dish used. Further information can be found in the Cookbook.

Before Operation

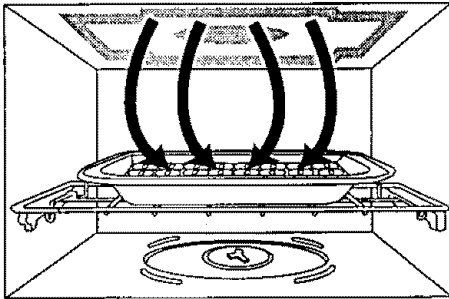
Microwave



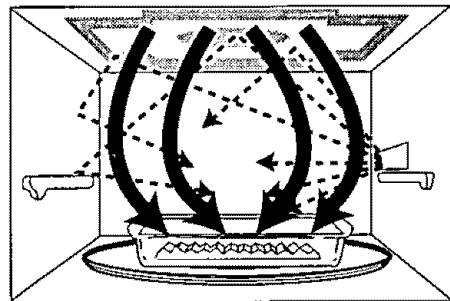
Bake



Broil
























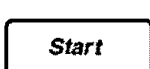








Combination



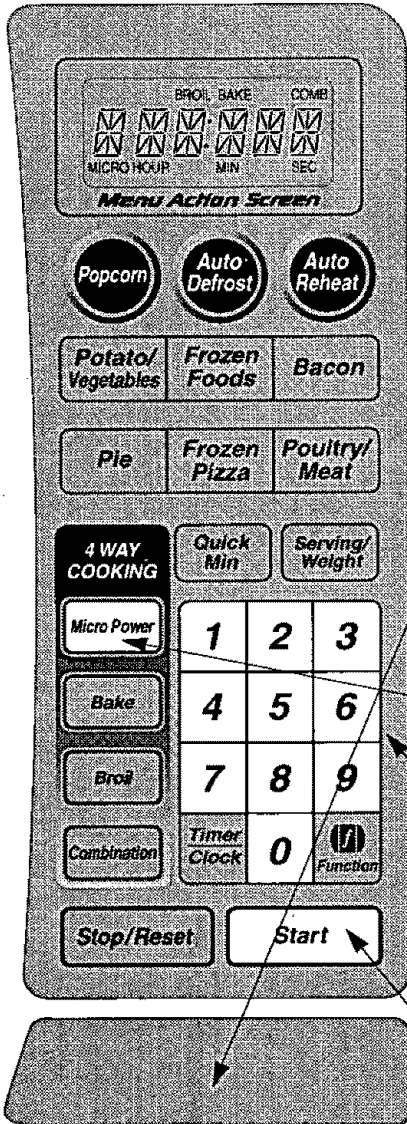
← - - - Microwave

← Heater

Quick Guide to Operation

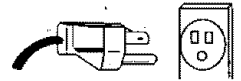
Feature	How to Operate
To Use Function (see page 13)	 → <input type="text" value="0"/> — <input type="text" value="9"/> Select the number of feature
To Set Clock (see page 14)	 → <input type="text" value="0"/> — <input type="text" value="9"/> → 
To Use Micro Power and Time Setting (see page 15)	 → <input type="text" value="0"/> — <input type="text" value="9"/> →  Set cooking time.
To Cook on Bake (see page 16)	 ^{Press start} if preheat required: → <input type="text" value="0"/> — <input type="text" value="9"/> →  Select oven temperature.
To Cook on Broil (see page 17)	 ^{Press start} if preheat required. → <input type="text" value="0"/> — <input type="text" value="9"/> → 
To Cook on Combination (see page 18)	 → <input type="text" value="0"/> — <input type="text" value="9"/> → 
To Defrost using Auto Defrost pad (see page 19)	 → <input type="text" value="0"/> — <input type="text" value="9"/> →  Set the weight of food
To Reheat / Cook using Auto Reheat pad (see page 20)	 → 
To Use Auto Cook pads (by Microwave/Combination) (see page 21, 23)	e.g.  →  →  Set the weight of food
To Use Auto Cook pads (by Bake) (see page 22)	e.g.  → 
To Cook using Popcorn pad (see page 24)	 → 
To Use Quick Min pad (see page 25)	 → 
To Cook using a Kitchen Timer (see page 26)	 → <input type="text" value="0"/> — <input type="text" value="9"/> → 
To Set Stand Time (see page 27)	Set desired cooking program. →  → <input type="text" value="0"/> — <input type="text" value="9"/> → 
To Set Delay Start (see page 27)	 → <input type="text" value="0"/> — <input type="text" value="9"/> → Set desired cooking program. → 

Let's Start to Use Your Oven!



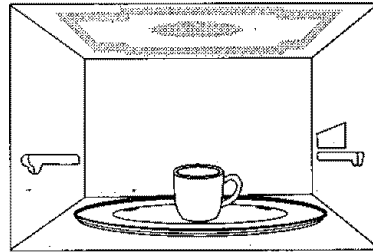
1 Plug In

Plug into a properly grounded electrical outlet. "WELCOME TO PANASONIC CONVECTION COOKING" appears in the display window. (This will immediately cease when any pad is pressed.)



2 Press

Open the door and place the food on Glass Tray in the oven. Then close the door.

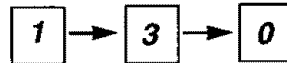


3 Select Power Level

e.g. HIGH power — Press once
(Continue pressing for other power levels — page 15)

4 Set Cooking Time

e.g. 1 minute 30 seconds




5 Press

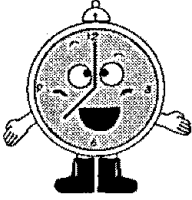
• The time in the display window will count down.

To Use Functions

The unique function feature of your PANASONIC microwave oven allows you to set the non-cooking features of your ovens such as CHILD LOCK, WORD SPEED, LANGUAGE CHOICE (ENGLISH, SPANISH OR FRENCH), plus many more. See below.

	<p>→ 1</p> <p>→</p> <p>→</p> <p>→</p>	<p>LANGUAGE CHOICE The oven has English, French and Spanish displays. The default setting is English. 1.ENGLISH →Display appears in English. 2.FRANCAIS →Display appears in French. 3.ESPANOL →Display appears in Spanish.</p>
	<p>→ 2</p> <p>→</p> <p>→</p>	<p>Lb/kg CHOICE The oven has both imperial and metric weight measurements. The oven displays the weight in imperial measurements. 1.Lb →Weight can be set in lb/oz. 2.kg →Weight can be set in g/kg.</p>
	<p>→ 3</p> <p>→</p> <p>→</p> <p>→</p>	<p>WORD SPEED The word scrolling speed can be accelerated or slowed down. 1.QUICK →Words scroll quickly. 2.MEDIUM →Scrolling speed reverts to initial setting. 3.SLOW →Words scroll slowly.</p>
	<p>→ 4</p> <p>→</p> <p>→</p>	<p>MENU ACTION ON/OFF MENU ACTION SCREEN helps you program your oven by prompting you with the next step. When you become familiar with your oven, the Prompting Guide can be turned off. 1.ON →Prompting Guide will appear. 2.OFF →Prompting Guide will not appear.</p>
	<p>→ 5</p> <p>→</p> <p>→</p>	<p>CHILD LOCK ON/OFF The Child Safety Lock feature prevents children from using the oven. 1.ON →Child Lock has been set and operation is impossible. 2.OFF →Child Lock has been cancelled.</p>
	<p>→ 6</p> <p>→</p> <p>→</p>	<p>BEEP ON/OFF If you wish to have the oven operate without beeping, this feature can be turned off. 1.ON →Beep sound will be heard. 2.OFF →Beep sound will not be heard.</p>
	<p>→ 7</p> <p>→</p> <p>→</p>	<p>REMINDER BEEP ON/OFF A reminder beep reminds you to remove the food from the oven after cooking is complete. The oven beeps every few seconds. 1.ON →Reminder beep activated. 2.OFF →Reminder beep deactivated.</p>
	<p>→ 8</p> <p>→</p> <p>→</p>	<p>DAYLIGHT SAVING ON/OFF 1.ON →Time of day will advance one hour. 2.OFF →Time of day remains the same.</p>
	<p>→ 9</p> <p>→</p> <p>→</p>	<p>CLOCK ON/OFF Clock display can be turned off. 1.ON →Clock display will appear in the display window. 2.OFF →Clock display will not appear in the display window. Time of day will remain in memory even when the display is off.</p>
	<p>→ 0</p> <p>→</p> <p>→</p>	<p>DEMO MODE ON/OFF Demo mode is designed for retail store display. In this mode, the oven can be demonstrated without turning the oven on. 1.ON →Demo mode is activated. 2.OFF →Demo mode is deactivated.</p>

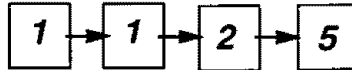
To Set Clock



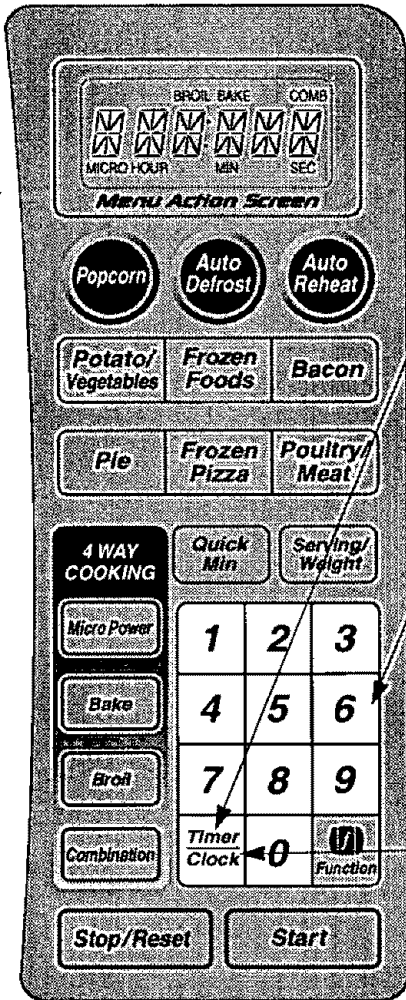
1 Press twice

2 Set the time of day

Example: To set 11:25



3 Press once

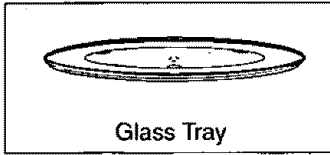


NOTE

1. You can use the oven without setting the clock.
2. The clock is in a 12-hour display mode and so the maximum time is 12:59.
3. To reset the time of day, repeat 1 to 3 above.
4. The clock will keep the time of day as long as the oven is plugged in and electricity is supplied.

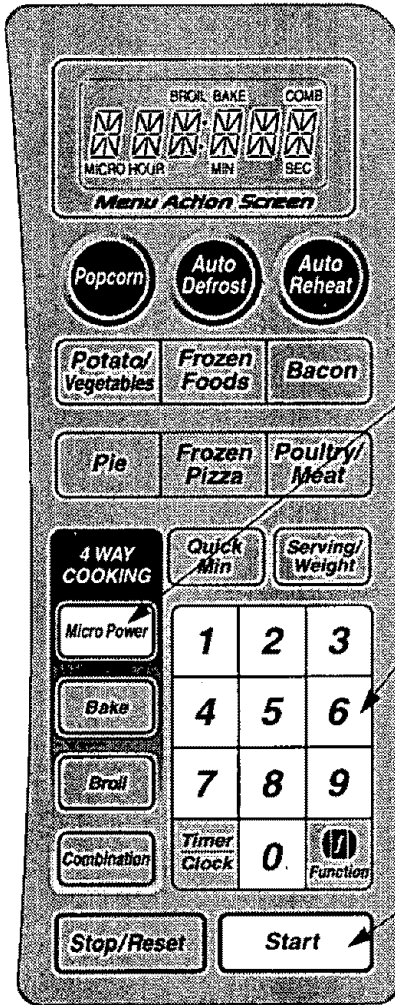
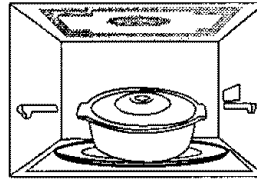
Micro Power and Time Setting

Use of Accessory:



1 Place the Food

Open the door and place the food on Glass Tray in the oven. Then close the door.



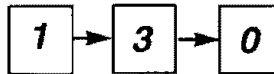
2 Select Micro Power

NOTE: When selecting HIGH power on the first stage, you can start from step 2.

3 Set Cooking Time

(DEFROST → up to 9 hours 99 minutes.
OTHERS → up to 99 minutes 99 seconds.)

e.g. HIGH power 1 minute 30 seconds



4 Press

☛ Cooking starts. The cooking time on the display begins to count down.

To recall the selected power level, press Micro Power pad.

Two/Three stage cooking:

Repeat steps 1 and 2 above then press Start, the oven will beep twice between stages.

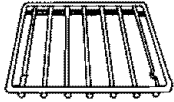
Micro Power:

You can select different power levels for cooking foods at different speeds, refer to the chart below.

Power Level	Power	No. of Taps	Example of Use
HIGH	100 %	1	Boil water, cook fresh fruit, vegetables, rice and pasta. Preheat browning dish. Reheat soups, stews and casseroles.
DEFROST	30 %	2	Thaw foods.
MED HIGH	70 %	3	Cook poultry, meat, cakes and desserts. Heat milk.
MEDIUM	55 %	4	Cook pot roasts, casseroles and meatloaves, melt chocolate. Cook eggs and cheese. Cook fish.
MED LOW	30 %	5	Simmer soups, stews and casseroles (less tender cuts.) Soften butter and cream cheese.
LOW	10 %	6	Keep cooked foods warm, simmer slowly.

To Cook on Bake

Use of Accessory:



Oven Rack

Bake temperature automatically counts-up in 25°F (10°C) increments from 200°F to 450°F (from 100°C to 230°C).

Remove Glass Tray and Roller Ring from the oven before preheating. Place Oven Rack on the oven floor.

1 Select Oven Temperature

by pressing Bake Pad.

2 Press

Preheating will start.

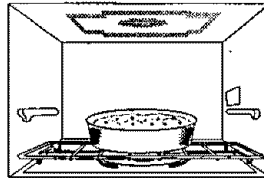
For recipes that do not require preheating, eliminate step 2.

NOTE: During preheating "P" appears in the display window. Please do not open door.

When preheating is completed, oven will beep three times and "P END" will appear in the display window.

3 Place the Food

in an oven-safe dish carefully on Oven Rack.



4 Set Baking Time

by pressing Number Pads. (up to 9 hours 99 minutes)

e.g. 30 minutes



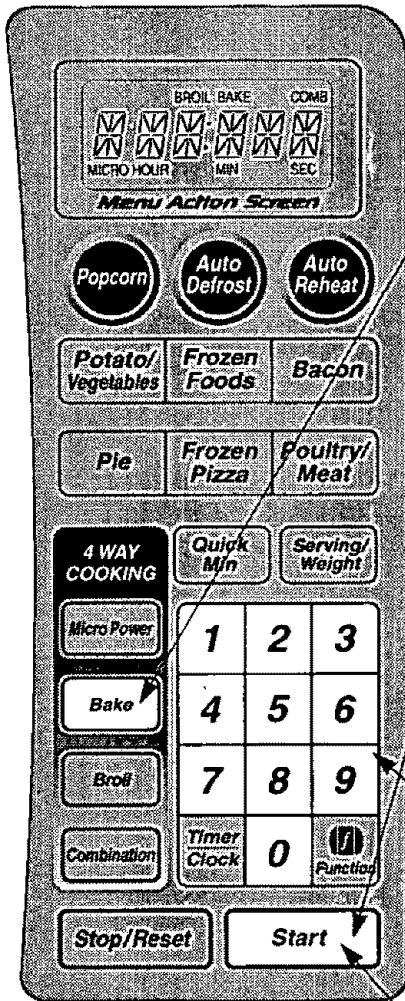
5 Press

Cooking starts. The cooking time on the display begins to count down.

To recall the selected oven temperature, press Bake Pad.

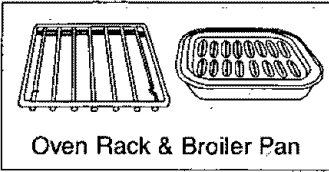
NOTE:

1. If oven door is not opened after preheating, oven will maintain the selected temperature for 30 minutes. After 30 minutes, oven will shut off automatically and beep five times.
2. When selected cooking time is less than one hour, time counts down second by second.
3. When selected cooking time is more than one hour, time counts down minute by minute until 1 hour remains. The timer will then count down second by second.



To Cook on Broil

Use of Accessory:



Remove Glass Tray and Roller Ring from the oven before preheating.
Place Oven Rack on Rack Guides and then place the empty Broiler Pan to top.

1 Press Broil Pad

2 Press

Preheating will start.

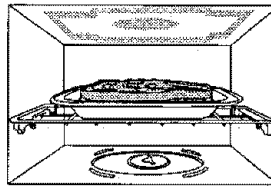
For recipes that do not require preheating, eliminate step 2.

NOTE: During preheating "P" appears in the display window. Please do not open door.

When preheating is completed, oven will beep three times and "P END" will appear in the display window.

3 Place the Food

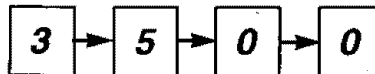
on Spatter Shield on Broiler Pan and carefully place on Oven Rack.
You can purchase most Broiler Pans from your local stores.



4 Set Broiling Time

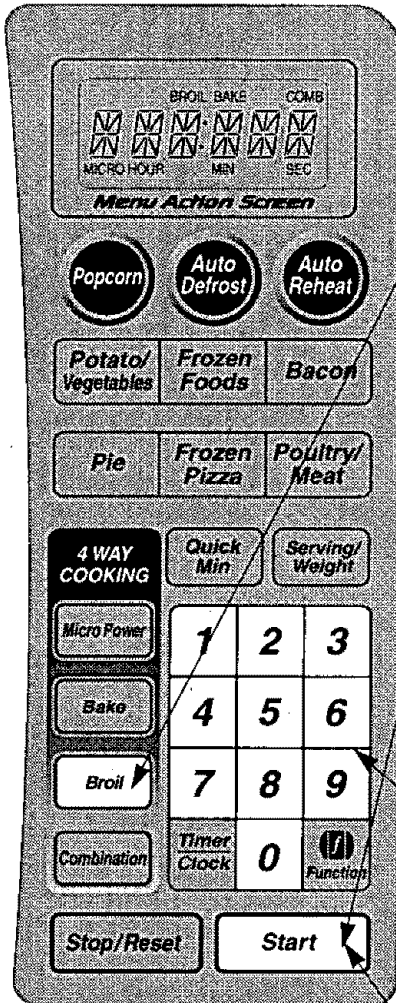
by pressing Number Pads.
(up to 99 minutes and 99 seconds)

e.g. 35 minutes



5 Press

The cooking time on the display begins to count down.

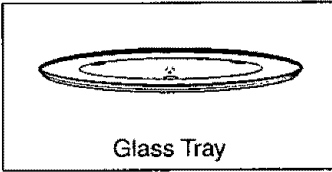


NOTE:

- If oven door is not opened after preheating, oven will maintain the temperature for 30 minutes. After 30 minutes, oven will shut off automatically and beep five times.

To Cook on Combination

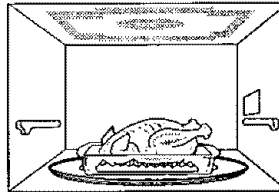
Use of Accessory:



There are 4 combination settings. These settings are automatic, there is no need to set oven temperature or microwave power level. Some combination recipes require preheating. For instructions, follow steps 1 and 2 of the "To Cook on Bake" selection.

1 Place the Food

Open the door and place the food on Glass Tray in the oven. Then close the door.



2 Select the Setting

Combination 1, 2, 3, or 4 can be selected.

	Oven Temperature	Micro-wave	Food
1	275°F (140°C)	30 % power	Beef (Well), Lamb (Well)
2	300°F (150°C)		Beef (Rare, Med), Lamb (Med)
3	325°F (160°C)		Pork
4	375°F (190°C)		Chicken, Duck

3 Set Cooking Time

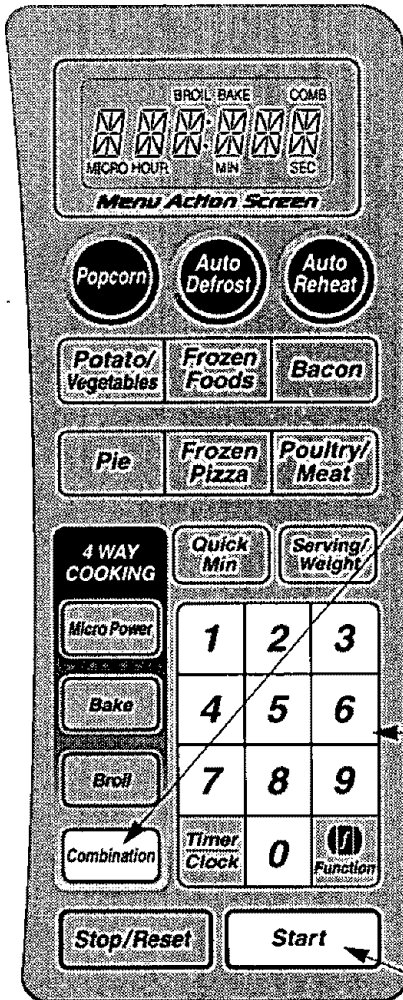
by pressing Number Pads (up to 9 hours 99 minutes).

e.g. 20 minutes



4 Press

◀ Cooking starts. The cooking time on the display begins to count down.

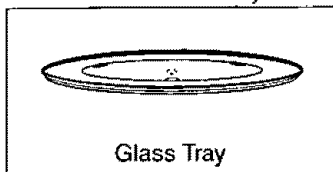


NOTE:

1. When selected cooking time is less than one hour, the time counts down second by second.
2. When selected cooking time is more than one hour, the time counts down minute by minute until only 1 hour remains. The timer will then count down second by second.
3. Use microwaveable and heat-safe dishes.
4. **DO NOT** use plastic wrap or waxed paper.

Using Auto Defrost Pad

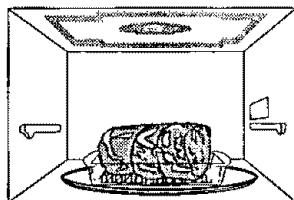
Use of Accessory:



This feature allows you to defrost meat, poultry and seafood by using the weight on the package.

1 Place the Food

Open the food and place the food on Glass Tray in the oven. Then close the door.



2 Press

3 Set Weight

Weight must be programmed in pounds and tenths of a pound (not ounces).

e.g. 2.6 lbs (1.2 kg)



If you wish to use the kg/g, see page 13 "Functions".

4 Press

Defrosting time appears in the display window and begins to count down.

Conversion Chart:

Follow this chart to convert ounces or hundredths of a pound into tenths as a pound. If a piece of meat weighs 1.95 pounds or 1 pound 14 ounces, program 1.9 pounds.

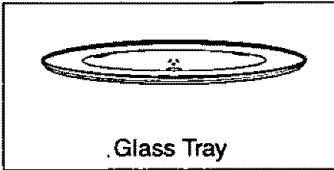
Ounces	Hundredths of a Pound	Tenths of a Pound
0	.96 - .05	0.0
1-2	.06 - .15	0.1
3-4	.16 - .25	0.2
5	.26 - .35	0.3
6-7	.36 - .45	0.4
8	.46 - .55	0.5
9-10	.56 - .65	0.6
11-12	.66 - .75	0.7
13	.76 - .85	0.8
14-15	.86 - .95	0.9

NOTE:

1. The shape and size of food will determine the maximum weight the oven can accommodate. The recommended maximum weight of meat is 4 lbs (1.8 kg); poultry, 6 lbs (2.7 kg); and seafood, 3 lbs (1.4 kg).
2. The oven beeps once during the defrosting cycle to signal that the food needs to be turned or rearranged. To prevent overdefrosting, thin areas or edges can be shielded with strips of aluminum foil.
3. For best results, the minimum recommended weight is 0.5 pound.
4. Stand time or power level may be programmed after Auto Defrost.

Using Auto Reheat Pad

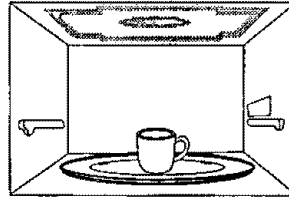
Use of Accessory:



This feature allows you to reheat/cook most of your favorite foods without selecting power and time. The oven does it all automatically.

1 Place the Food

Open the door and place the food on Glass Tray in the oven. Then close the door.



2 Press

until the desired number of servings (1-4) appears in the display window.

3 Press

▀ The cooking time on the display begins to count down.

NOTE:

1. Auto Reheat can be programmed for 1 to 4 servings.
2. The recommended food items and approximate weights are listed in the chart below.

Food	Starting Temp.	Weight per Serving	Number of Serving
Plate of Food	Refrig.	12 - 16 oz.	1
Meat, Poultry	Refrig.	4 - 6 oz.	1 - 4
Casseroles	Refrig.	8 oz.	1 - 2
Side dishes	Refrig. or Room	4 - 6 oz.	1 - 4
Soups, Sauces, Gravies	Refrig. or Room	6 - 8 oz.	1 - 2

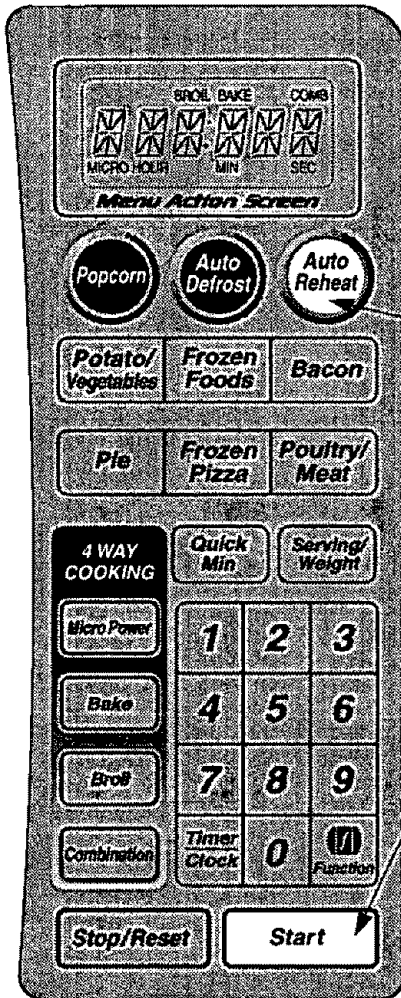
Casseroles - Add 2 to 4 tablespoons of liquid; cover with lid or plastic wrap. Stir when time appears in the display window.

Canned foods - Empty contents into casserole dish or serving bowl; cover dish with lid or plastic wrap. After reheating, release plastic wrap and stand.

Plate of food - Arrange food on plate; top with butter, gravy, etc. After reheating, release plastic wrap and stand.

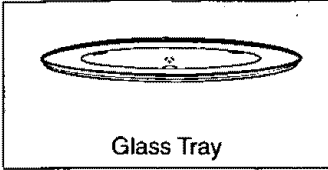
For best results follow these recommendations:

1. All foods must be previously cooked.
2. Foods should always be covered loosely with plastic wrap, wax paper or casserole lid.
3. All foods should have a covered stand time of 3 to 5 minutes.
4. Do not reheat bread and pastry products. Use manual power and time.
5. Do not reheat beverages.



Using Auto Cook (by Microwave)

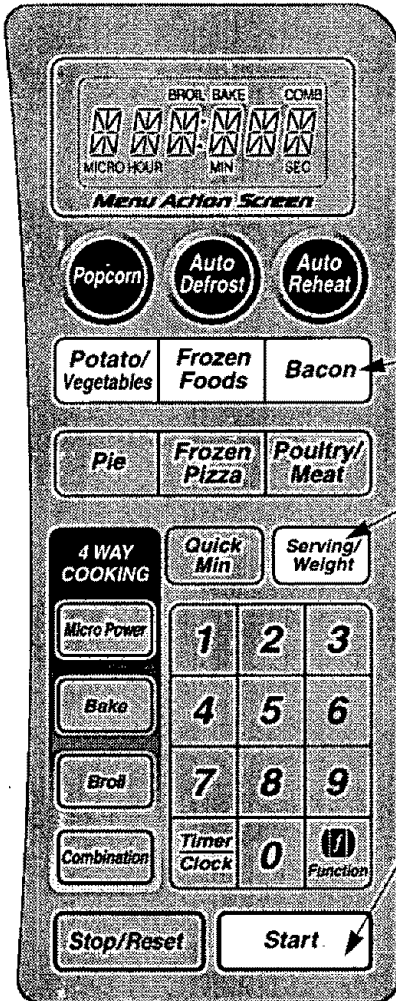
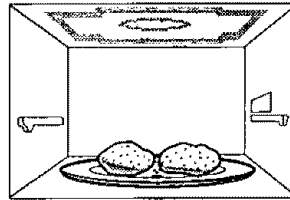
Use of Accessory:



This feature allows you to reheat/cook potato/vegetables, frozen foods, bacon by setting the weight. Place food on a microwave-safe dish.

1 Place the Food

Open the door and place the food on Glass Tray in the oven. Then close the door.



2 Select Category

3 Select Serving/Weight

4 Press

☛ Cooking starts. The cooking time on the display begins to count down.

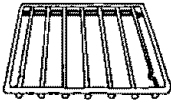
NOTE:

1. These settings are cooked by Microwave.
2. When the weight has been entered, the cooking time will be determined.

PAD	PRESS	CATEGORY	SERVING / WEIGHT
Potato / Vegetables	once	Potato	1, 2, 3, 4 potatoes (170 - 225 g each)
	twice	Vegetables	4, 8, 12, 16 oz. (110, 225, 340, 450 g)
Frozen Foods	once	Frozen Vegetables	5, 10, 16 oz. (150, 300, 450 g)
	twice	Frozen Entrees	8, 10, 20, 32 oz. (225, 300, 600, 900 g)
	3 times	Frozen Dinners	11, 15 oz. (300, 430 g)
Bacon	once	Bacon	2, 3, 4, 6 slices

Using Auto Cook (by Bake)

Use of Accessory:

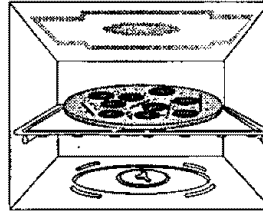


Oven Rack

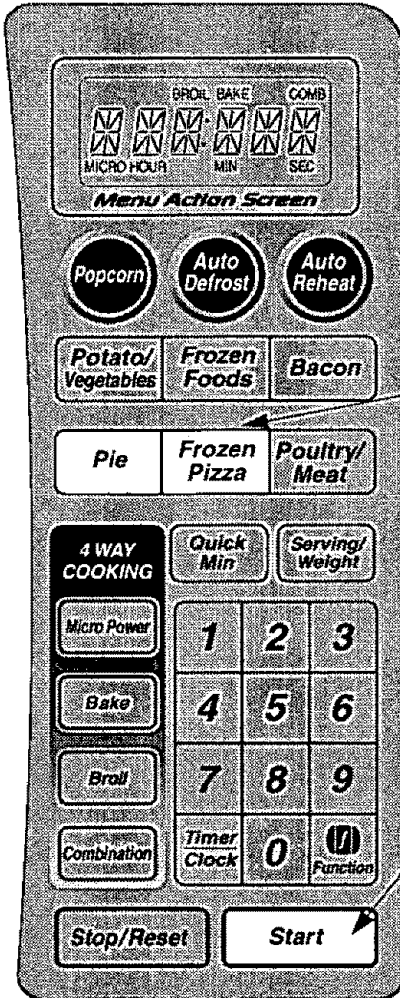
This feature allows you to bake pie, frozen pizza without having to select oven temperature and baking time. Place Oven Rack on the oven rack guides.

1 Place the Food

Open the door and place the food on cookie sheet/pie pan on Oven Rack on the oven rack guides. Then close the door.



2 Select Category



3 Press

• Cooking starts. The cooking time on the display begins to count down.

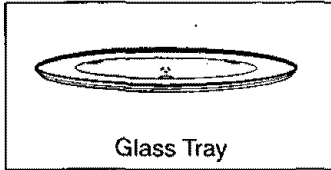
NOTE:

1. These settings are cooked by Bake.
2. There is no need to preheat.
3. Metal cookware may be used. Position the dish to be cooked on Oven Rack on the oven floor.

PAD	PRESS	CATEGORY
Pie	once	Fresh Pie : 9 inch (23 cm) double-crust pies with fresh fruits fillings.
	twice	Frozen Pie : 8 inch (21 cm) frozen, double-crust pies.
Frozen Pizza	once	Frozen Pizza : 12 inch (31 cm) thin crust type only.

Using Auto Cook (by Combination)

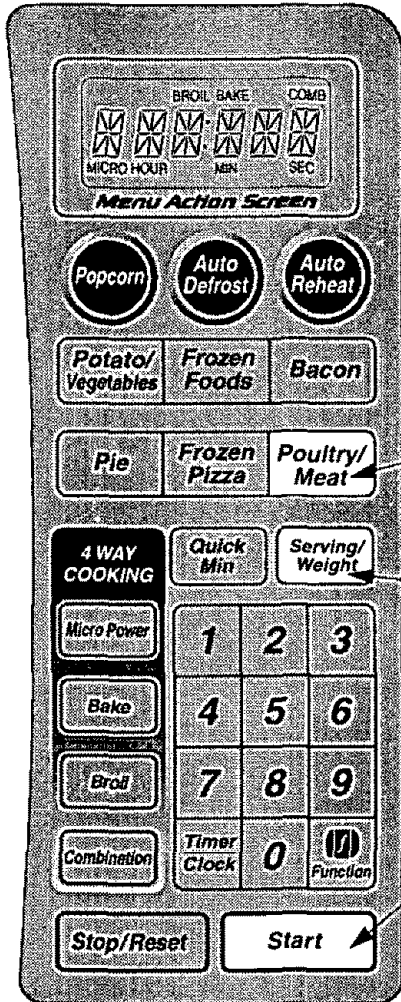
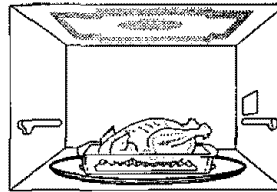
Use of Accessory:



This feature allows you to roast beef, pork or whole chicken by setting the weight. Place food on a microwave roasting rack set in a microwave- and heat-safe dish.

1 Place the Food

Open the door and place the food on Glass Tray in the oven. Then close the door.



2 Select Category

This pad is subdivided into 4 categories; Chicken Pieces, Whole Chicken, Beef and Pork.

3 Select Serving/Weight

4 Press

• Cooking starts. The cooking time on the display begins to count down.

Operation & Hints

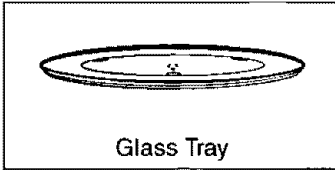
NOTE:

1. These settings are cooked by Combination (Bake and Microwave).
2. When the weight has been selected, the cooking time will be automatically determined.
3. Roasts weighing above or below the recommended weights should be cooked by manual combination.

PAD	PRESS	CATEGORY	SERVING / WEIGHT
Poultry / Meat	once	Chicken Pieces	6, 12, 18, 24 oz. (170, 340, 510, 680 g)
	twice	Whole Chicken	3.0, 3.5, 4.0, 4.5 lbs (1350, 1575, 1800, 2025 g)
	3 times	Beef (medium)	2.5, 3.0, 3.5, 4.0 lbs (1125, 1350, 1575, 1800 g)
	4 times	Pork	2.5, 3.0, 3.5, 4.0 lbs (1125, 1350, 1575, 1800 g)

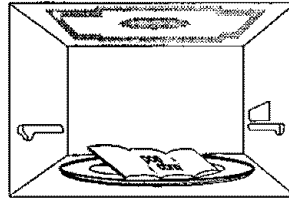
Using Popcorn Pad

Use of Accessory:



1 Place the popcorn bag

Open the door and place the popcorn bag on Glass Tray in the oven. Then close the door.

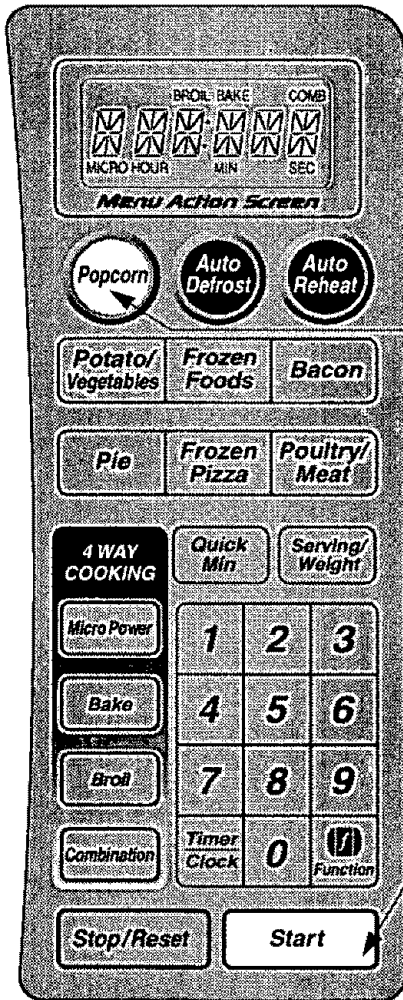


2 Press

Use only 3.5 oz. (99 g) bags of prepackaged microwave popcorn. Read manufacturers' directions.

3 Press

Time appears in the display window and begins to count down.



NOTES:

1. Place the bag in oven according to the manufacturers' directions.
2. Pop only one bag at a time.
3. After popping, open the bag carefully. The popcorn and steam are extremely hot.
4. Do not reheat unpopped kernels or reuse the bag.
5. **Never** leave oven unattended when popping popcorn.

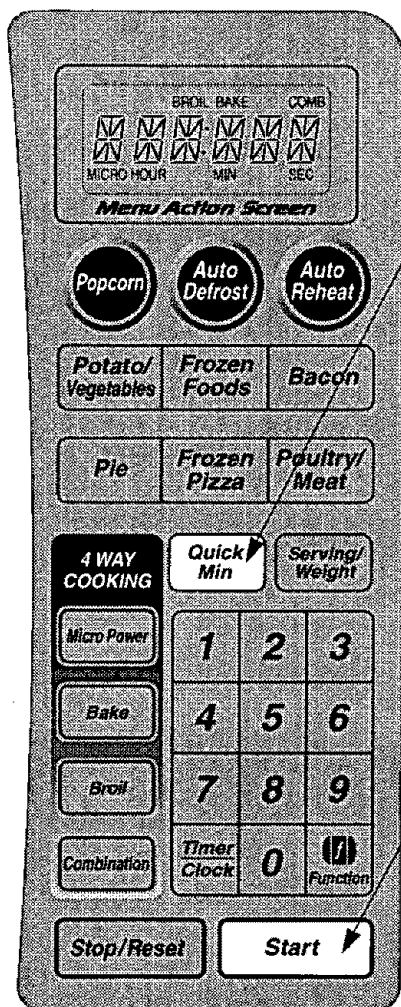
CAUTION: If pre-packaged popcorn is of a different weight from the recommended weight, do not use the popcorn setting, or inadequate popping or a fire may occur. Follow the see above instructions.

Using Quick Min Pad

This feature helps you in programming your oven without pressing Number Pads and allows you to add extra cooking time easily.

1 Press to Set Cooking Time

(up to 10 minutes)



2 Press

➤ Cooking will start on **HIGH** power.

NOTE:

1. To use another power level or cooking mode, select the desired power level/cooking mode before setting the cooking time.
2. If you use Quick Min pad to set your cooking time, you cannot use Number Pads to set more time or to change the cooking time. However, you can add more time with Quick Min pad during cooking.

To Add Extra Cooking Time During Cooking:

**Quick
Min**

Press Quick Min pad to add extra cooking time (up to 10 taps) during cooking.

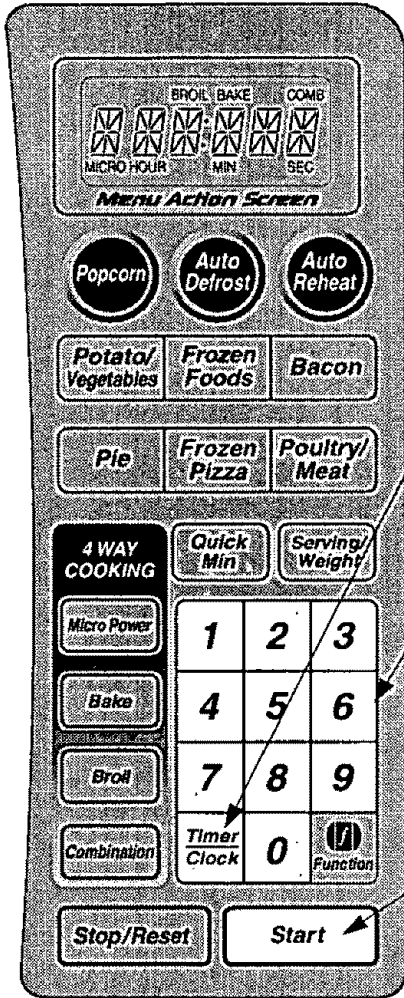
➤ Cooking time changes to include extra time and continues to count down in the display.

- Extra time can be added during any of the three stages.

Using Timer Function

This feature allows you to program a Standing Time after cooking is completed and to program the oven as a minute timer and/or to program delay start.

To Use as a Kitchen Timer:



1 Press once

2 Set Desired Amount of Time

(up to 9 hours and 99 minutes)

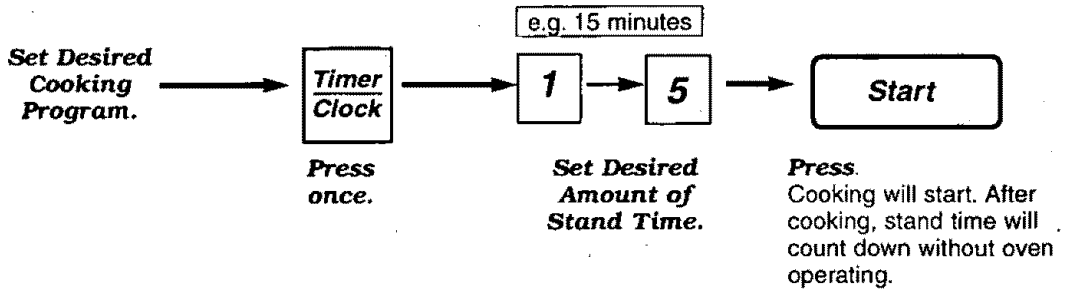
e.g. 15 minutes



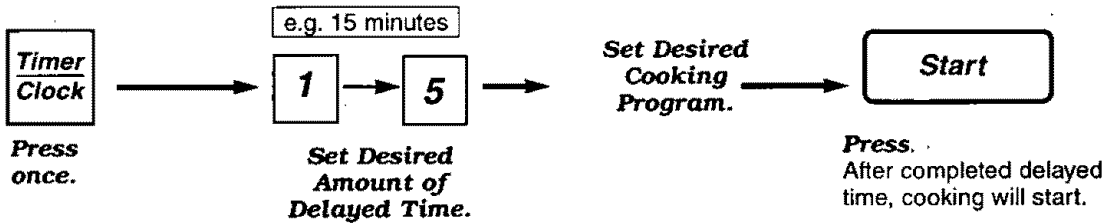
3 Press

Time will count down without oven operating.

To Set Stand Time:



To Set Delay Start:



NOTE:

1. When the first/second stage has finished, a two beep signal is heard. After all the stages have been completed, the oven will beep five times.
2. If oven door is opened during the Stand Time or Kitchen Timer, the time in the display window will continue to count down.
3. Delay Start cannot be programmed before any Auto Control Function.
This is to prevent the starting temperature of the food from rising before defrosting or cooking begins. A change in the starting temperature could cause inaccurate cooking results.
4. Timer can be set up to 9 hours and 99 minutes.

Before Requesting Service

ALL THESE THINGS ARE NORMAL:

The oven causes interference with my TV.	Some radio and TV interference might occur when you cook with the microwave oven. This interference is similar to the interference caused by small appliances such as mixers, vacuums, hair dryer, etc. It does not indicate a problem with your oven.
The oven lights dim.	When cooking with a power other than HIGH, the oven must cycle to obtain the lower power levels. The oven light will dim and clicking noises can be heard when the oven cycles.
Steam accumulates on the oven door and warm air comes from the oven vents.	During cooking, steam and warm air are given off from the food. Most of the steam and warm air are removed from the oven by the air which circulates in the oven cavity. However, some steam will condense on cooler surfaces such as the oven door. This is normal.
I accidentally ran my microwave oven without any food in it.	Running the oven empty for a short time will not damage the oven. However, we do not recommend this to be done.
There are humming and clicking noises from my oven when I cook by Combination.	These noises occur as the oven automatically switches from microwave power to Bake/Broil, to create the Combination setting. This is normal.
The oven has an odor and generates smoke when using the Bake, Combination and Broil function.	It is essential that your oven is wiped out regularly particularly after cooking. Any fat and grease that builds up on the roof and walls of the oven will begin to smoke if not cleaned.

PROBLEM	POSSIBLE CAUSE	REMEDY
Oven will not turn on.	The oven is not plugged in securely.	Remove plug from outlet, wait 10 seconds and re-insert.
	Circuit breaker or fuse is tripped or blown.	Reset circuit breaker or replace fuse.
	There is a problem with the outlet.	Plug another appliance into the outlet to check if the outlet is working.
Oven will not start cooking.	The door is not closed completely.	Close the oven door securely.
	Start pad was not pressed after programming.	Press Start pad.
	Another program has already been entered into the oven.	Press Stop/Reset pad to cancel the previous program and program again.
	The program has not been entered correctly.	Program again according to the Operating Instructions.
	Stop/Reset pad has been pressed accidentally.	Program oven again.
The words "DEMO MODE" appear on the screen.	Oven is set at Demo Mode.	See the page 13 to turn off Demo Mode.
When the oven is turning on, there is noise coming from Glass Tray.	Roller Ring and oven bottom are dirty.	Clean these parts according to Care of Your Oven (see next page).

* DEMO MODE is designed for retail store display.

Cooking and other functions will not operate during demo mode.

If it seems there is a problem with the oven, contact an authorized Servicenter.

Care of Your Microwave Oven

BEFORE CLEANING:

Unplug at socket of the oven. If impossible, leave oven door open to prevent oven from accidentally turning on.

AFTER CLEANING:

Be sure to replace Roller Ring and Glass Tray in the proper position and press Stop/Reset Pad to clear the display window.

Inside of the oven:

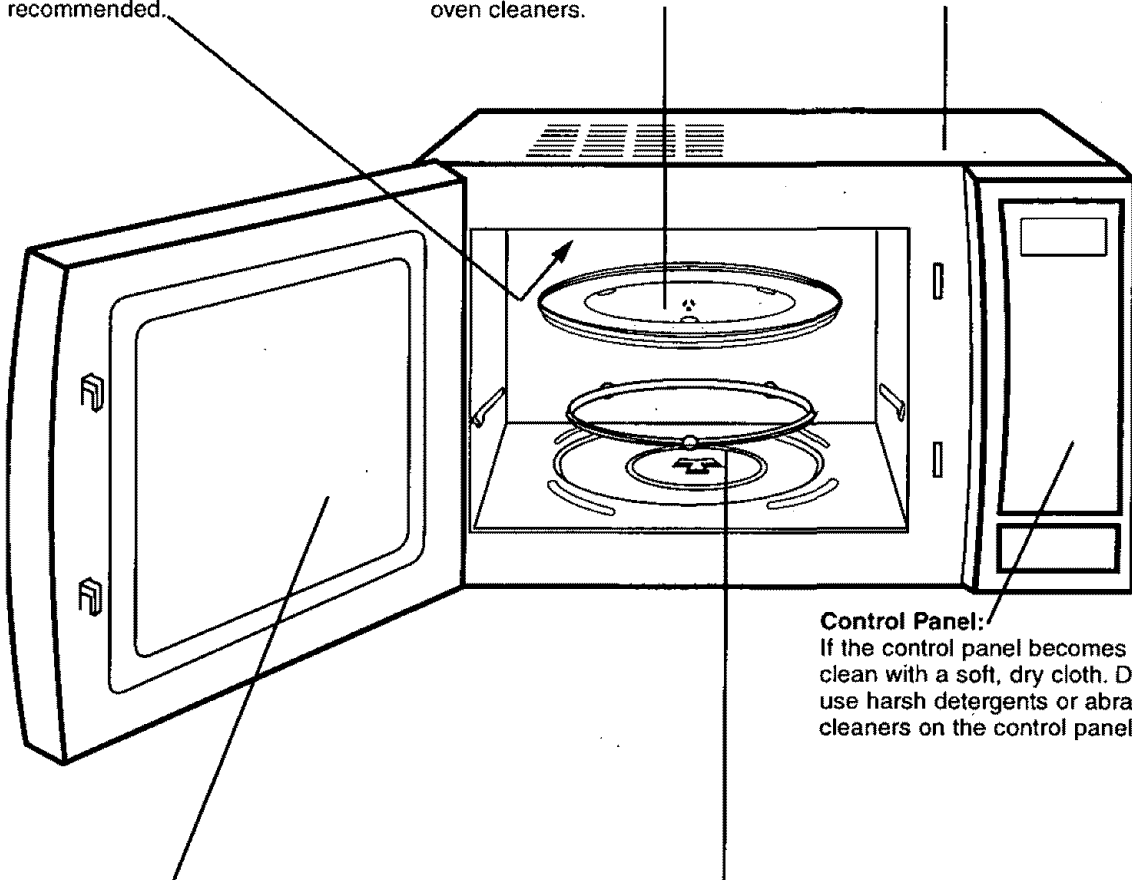
Wipe with a damp cloth. Non caustic oven cleaners may be used if the oven gets very dirty. The use of harsh detergent or abrasive cleaners is not recommended.

Glass Tray:

Remove and wash in warm soapy water or in a dishwasher. If grease accumulates, clean with a non-abrasive nylon mesh scouring pad and non caustic oven cleaners.

Outside oven surfaces:

Clean with a damp cloth. To prevent damage to the operating parts inside the oven, water should not be allowed to seep into ventilation openings.



Oven Door:

Wipe with a soft cloth when steam accumulates inside or around the outside of the oven door. This may occur when the oven is operated under high humidity conditions and in no way indicates a malfunction of the unit or microwave leakage.

Roller Ring and oven cavity floor:

Wipe the bottom surface of the oven with mild detergent water or window cleaner and dry. Roller Ring may be washed in mild soapy water or dishwasher. These areas should be kept clean to avoid excessive noise.

Control Panel:

If the control panel becomes wet, clean with a soft, dry cloth. Do not use harsh detergents or abrasive cleaners on the control panel.

After Bake/Broil/Combination cooking, the oven should be cleaned with a soft cloth squeezed in soapy water. If the oven is not cleaned occasionally to eliminate this grease, it can accumulate and cause the oven to "SMOKE" during use. To avoid smoking, run the oven without food on BROIL for 20 minutes.

Technical Specifications

Power Consumption:	
Microwave	12.8 Amps, 1,500 W
Heater	12.5 Amps, 1,500 W
Output:	
Microwave	850 W*
Heater	1,400 W
Outside Dimensions:	12" (H) x 21 7/8" (W) x 17 1/4" (D) 306 mm (H) x 555 mm (W) x 439 mm (D)
Oven Cavity Dimensions:	7 15/16" (H) x 14 3/4" (W) x 15 3/16" (D) 201 mm (H) x 375 mm (W) x 386 mm (D)
Operating Frequency:	2,450 MHz
Built-in Trim Kit:	NN-TK800/NN-TK850
Uncrated Weight:	Approx. 45.9 lbs (20.8 kg)

* IEC 705-88 Test procedure

Specifications are subject to change without notice.

As for the voltage requirement, the production year and month, country and serial number, please refer to the identification plate on the microwave oven.

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