

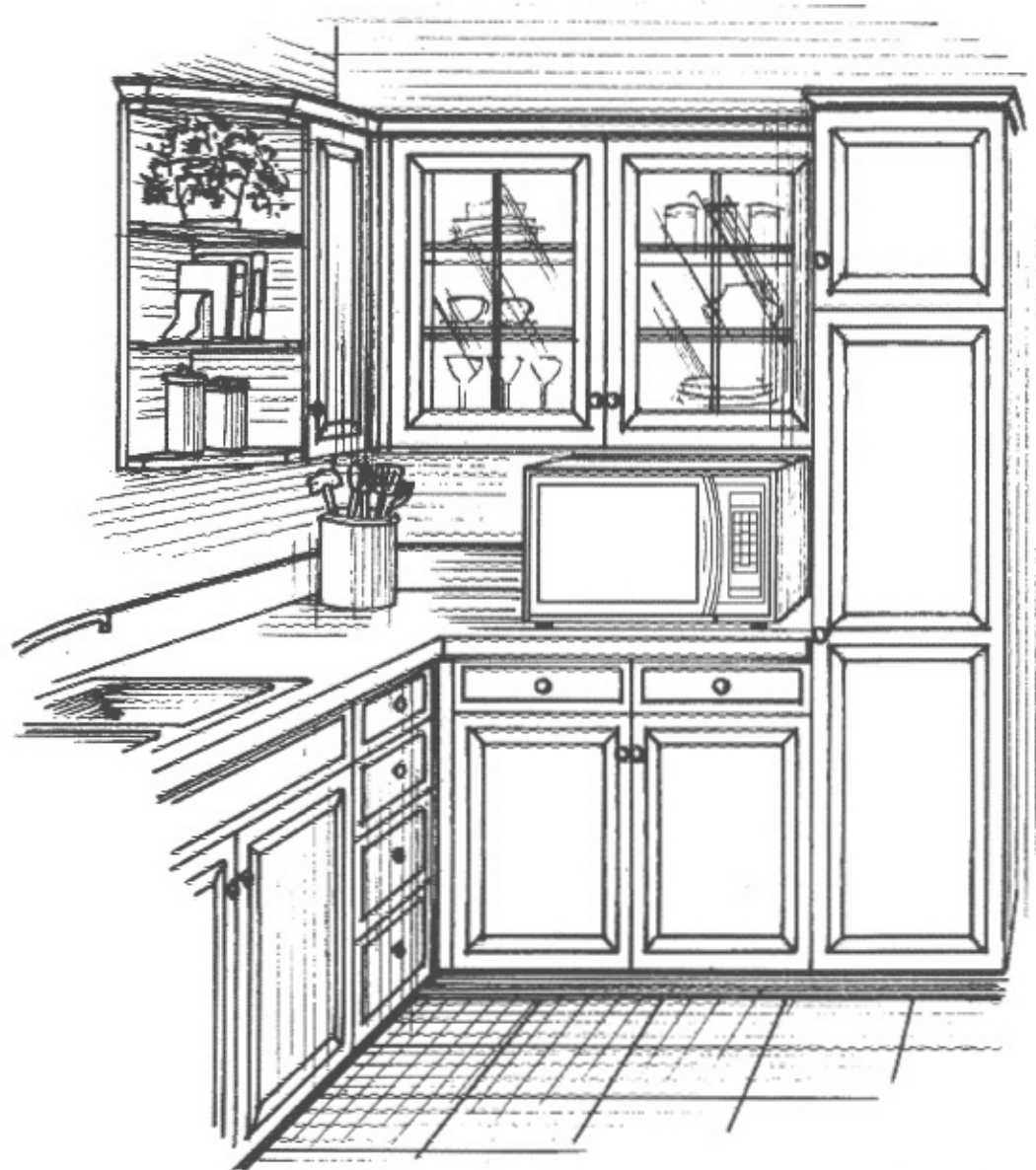
Panasonic®

Operating Instructions

Microwave oven

Model NN-S787/NN-S687/NN-S587

NN-E777/NN-E677/NN-E577



Before operating this oven, please read these instructions completely.

Antes de operar este producto, lea este instructivo en su totalidad.

El manual de instrucciones en español puede ser encontrada en la páginas 32-45.

(Spanish Operating Instructions can be found on pages 32-45.)

Parts order information on page 31.

Thank you for purchasing the Panasonic Microwave Oven.

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 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.

STAPLE YOUR STORE RECEIPT HERE.

Technical Specifications

	NN-S787/NN-E777 1.5 cu. ft.	NN-S687/NN-E677 1.3 cu. ft.	NN-S587/NN-E577 1.0 cu. ft.
Power consumption: Output:	13.8 Amps, 1580 W 1,000 W	13.5 Amps, 1550 W 1,000 W	13.5 Amps, 1550 W 1,000 W
Outside Dimensions: (H x W x D)	14" x 23 ³ / ₈ " x 16 ¹ / ₂ " 356 x 595 x 415mm	12" x 21 ⁷ / ₈ " x 16 ¹ / ₂ " 306 x 555 x 425mm	12" x 20" x 14 ¹ / ₈ " 306 x 510 x 360mm
Oven Cavity Dimensions: (H x W x D)	10 ¹ / ₈ " x 16 ¹ / ₈ " x 15 ¹ / ₄ " 259 x 415 x 385mm	8 ⁵ / ₈ " x 14 ¹ / ₈ " x 15 ¹ / ₈ " 220 x 375 x 395mm	9" x 13 ¹ / ₄ " x 13 ¹ / ₈ " 229 x 353 x 338mm
Operating Frequency:	2,450 MHz	2,450 MHz	2,450 MHz
Uncrated Weight:	Approx. 40 lbs (17.9 kg)	Approx. 38 lbs (17.2 kg)	Approx. 34 lbs (15.3 kg)

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 _____

CONTENTS

Before Operating

Safety Instructions	2
Installation Instructions	3
Grounding Instructions	3
Practical Hints	4
Cookware and Utensil Guide	5
Feature Diagram	6
Control Panels.....	7

Operation & Hints

Let's Start to Use Your Oven!	8
To Use Function.....	8 - 9
To Set Clock.....	10
To Reheat using Power and Time Setting	10
Auto Reheat	16
Sensor Reheat Pad	13
To Defrost using Power and Time Setting	10
Auto Defrost Pad	11
To Cook using Power and Time Setting.....	10
Sensor Cooking Pads	13 - 14
Auto Cook	15
Popcorn Pad	16
To Set Timer (Stand Time/Delay Start).....	17
To Use Quick Minute.....	16

Cooking Guide & Charts

Food Characteristics	18
Cooking Techniques	19
Cooking Charts	
Meats	20 - 21
Poultry.....	22
Fish and Seafood.....	23
Casseroles	23
Vegetables	24
Pasta, Rice and Cereal	25
Quick Breads and Cakes	26
Eggs and Cheese.....	27
Pies	27
Microwave Shortcuts.....	28

Maintenance

Part Order Information	30
Before Requesting Service	29
Care of Your Microwave Oven.....	30
Technical Specifications.....	Inside Front Cover
Quick Guide to Operation.....	Back Cover

Manual de instrucciones (Spanish Operating Instructions)

Precauciones.....	32
Instrucciones de seguridad	32 - 33
Instrucciones para Conexión a Tierra.....	33
Instrucciones de instalación.....	34
Surgerencias Utiles	35
Panel de Controles.....	36
Procedimientos de Operación.....	37 - 44
Cuidados de Su Horno de Microondas	45
Antes de Acudir a Servicio	45

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:

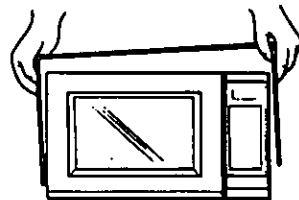
WARNING—To reduce the risk of burns, electric shock, fire, injury to persons or exposure to excessive microwave energy:

- (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.

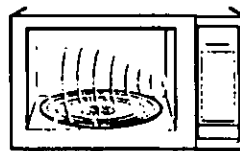
1. Read all instructions before using the appliance.
2. Read and follow the specific "PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY," found on back of the front cover.
3. This appliance must be grounded. Connect only to properly grounded outlet. See "GROUNDING INSTRUCTIONS" found on page 3.
4. Install or locate this appliance only in accordance with the installation instructions found on page 3.
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.

General Use

1. Do **NOT** tamper with or make any adjustments or repairs to 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 a qualified service person.



2. Do **NOT** operate the oven 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 oven. They may catch fire.
5. Do **NOT** use recycled paper products unless the paper product is labeled 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 control panel. Damage to controls may occur. Fire can result.
8. **POT HOLDERS** may be needed when cooking. Heat is transferred from the hot food to the cooking container and from the cooking container to the Glass Tray. Glass Tray can be very hot after removing cooking container from oven.
9. Do **NOT** store flammable materials next to, on top of, or in the oven. These could be fire hazards.

SAVE THESE INSTRUCTIONS

For proper use of your oven read remaining safety cautions and operating instructions.

INSTALLATION & GROUNDING INSTRUCTIONS

Examine Your Oven

Unpack oven, remove all packing material, and examine the oven for any damage such as dents, broken door latches or cracks in the door. Notify dealer immediately if oven is damaged. **Do NOT** install if oven is damaged.

Placement of Oven

- Oven must be placed on a flat, stable surface. For proper operation, the oven must have sufficient air flow. Allow 3 inches (8 cm) of space on both sides of the oven and 1 inch (2.5 cm) of space on top of oven.
 - 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.
 - Do NOT** place oven near a hot damp surface such as a gas or electric range.
 - Do NOT** operate oven when room humidity is too high.
- 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 doubt exists as to whether the appliance is properly grounded.

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

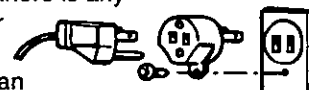
- A short power-supply cord is provided to reduce the risks resulting from becoming entangled in or tripping over a longer cord.
- Longer cord sets or extension cords are available and may be used if care is exercised in their use.
- If a long cord or extension cord is used, (1) the marked electrical 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

- 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 the times recommended in this manual.
- The **VOLTAGE** used must be the same as specified on this microwave oven (120V). 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.
- 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.



- 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

- Operation of the microwave oven may cause interference to your radio, TV or similar equipment.
- When there is interference, it may be reduced or eliminated by taking the following measures:
 - Clean door and sealing surfaces of the oven. (See Care of Your Microwave Oven.)
 - Place the radio, TV, etc. away from the microwave oven as far as possible.
 - Use a properly installed antenna to obtain stronger signal reception.

Practical Hints

Follow These Safety Precautions When Cooking in Your Oven

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

- Do not use your oven for home canning or the heating of any closed jar. Pressure will build up and the jar may explode. Your 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 or catch on fire.
- 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 the oven off and leave the 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 microwave oven. Never leave oven unattended when popping popcorn. Allow the popcorn bag to cool before opening it. To prevent steam burns, always open the bag away from your face and body.

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 16) 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. Cooking oils may burst into flames and may cause damage to the oven and perhaps result in burns. Microwave utensils may not be able to withstand the temperature of the hot oil, and could shatter.

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. These types of foods must be pierced before Microwave cooking to prevent their bursting.
- Use fresh potatoes for baking and cook until just done. Overcooking causes dehydration and may cause a

fire. Use recommended weights or fire may occur.

6) LIQUIDS

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

7) GLASS TRAY / COOKING UTENSILS / FOIL

- Cooking utensils get hot during Microwaving. Use potholders when removing utensils from the oven or when removing lids or plastic wrap covers from cooking utensils to avoid burns.
- The glass tray will get hot during cooking. It should be allowed to cool before handling or before paper products, such as paper plates or microwave popcorn bags, are placed in the oven for microwave cooking.
- When using foil, skewers, warming rack or utensils made of metal in the oven, allow at least 1-inch 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, as 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

- Browning dishes or grills are designed for microwave cooking only. Always follow instructions provided by the manufacturer. 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 a wire twist-tie to close bag.

10) THERMOMETERS

- Do not use a conventional meat thermometer in your oven. Arcing may occur.

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 temperature 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.

Cookware and Utensil Guide

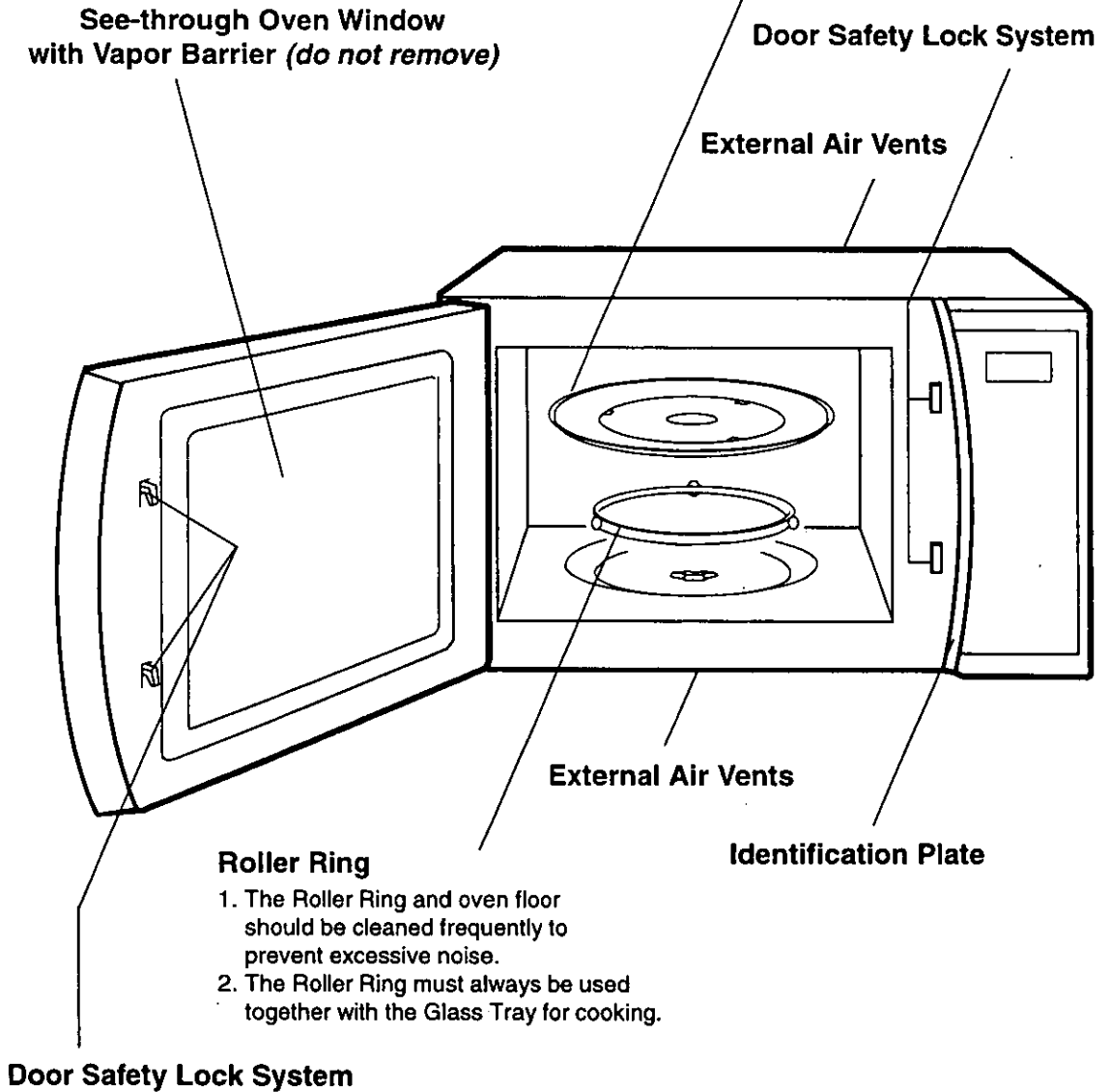
ITEM	MICROWAVE	COMMENTS
Aluminum Foil	Yes for Shielding only	Small strips of foil can be molded around thin parts of meat or poultry to prevent overcooking. Arcing can occur if foil is too close to oven wall or if too much foil is used.
Browning Dish	Yes	Browning dishes are designed for microwave cooking only. Check browning dish information for instructions and heating chart. Do not preheat for more than 8 minutes.
Brown paper bags	No	May cause a fire in the oven.
Dinnerware Microwave-Safe only	Yes	Check manufacturers' use and care directions for suitability for microwave heating. Some dinnerware may state on the back of the dish, "Oven-Microwave Proof."
Disposable polyester Paperboard Dishes	Yes	Some frozen foods are packaged in these dishes. Can be purchased in grocery stores.
Fast Food Carton with Metal Handle	No	May cause arcing.
Frozen Dinner Tray Metal	Yes	Frozen dinners may be heated in foil tray, if tray is less than ½-inch (2 cm) high. Place foil tray in center of oven. Leave at least 1-inch (2.5 cm) space between foil tray and oven walls. Heat only 1 foil tray in the oven at a time. For containers more than ¾-inch (2 cm) deep, remove food and place in a similar size microwave-safe container.
Microwave-safe	Yes	
Glass Jars	Yes	Remove lid. Heat food until just warm. Most glass jars are not heat resistant.
Glassware Heat Resistant Oven Glassware and Ceramic, only	Yes	Ideal for microwave cooking and browning.
Metal Twist Ties	No	They may cause arcing which could cause a fire in the oven.
Oven Cooking Bag	Yes	Follow manufacturers' directions. Close bag with the nylon tie provided, a strip cut from the end of the bag, or a piece of cotton string. Do not close with metal twist tie. Make six ½-inch (1 cm) slits by closure.
Paper Plates & Napkins	Yes	Use to warm cooked foods, and to cook foods that require short cooking times such as hot dogs.
Paper Towels & Napkins	Yes	Use to warm rolls and sandwiches by microwave.
Plastic Microwave-Safe only Cookware and Storage Dishes	Yes	Should be labeled, "Suitable for microwave heating." Check manufacturers' directions for recommended uses. Some microwave-safe plastic dishes are not suitable for cooking foods with high fat content.
Plastic Foam Cups	Yes	Plastic foam will melt if foods reach a high temperature. Use to bring foods to a low serving temperature.
Plastic Wrap	Yes	Use to cover food during cooking to retain moisture.
Straw, Wicker, Wood	Yes	Use only for short term reheating. Use to bring foods to a low serving temperature.
Thermometers Microwave-safe only Conventional	Yes No	Use only microwave-safe meat and candy thermometers. Not suitable for use in microwave oven.
Wax paper	Yes	Use as a cover to prevent spattering and to retain moisture.

TO TEST A CONTAINER FOR SAFE MICROWAVE OVEN USE: Fill a 1-cup glass measure with water and place it in the microwave oven along with the container to be tested; **heat one minute at HIGH.** If the container is microwave oven-safe, it should remain comfortably cool and the water should be hot. If the container is hot, it has absorbed some microwave energy and should not be used. This test cannot be used for plastic containers.

Feature Diagram

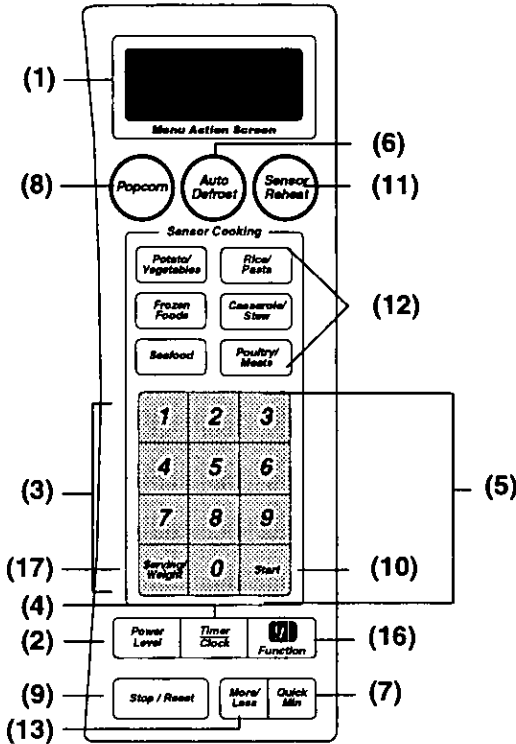
Glass Tray

1. Do not operate the oven without the Roller Ring and Glass Tray in place.
2. Only use the Glass Tray specifically designed for this oven. Do not substitute any other Glass Tray.
3. If Glass Tray is hot, allow to cool before cleaning or placing in water.
4. Do not cook directly on Glass Tray. Always place food in a microwave-safe dish, or on a rack set in a microwave-safe dish.
5. If food or utensil on Glass Tray touches oven walls, causing the tray to stop moving, the tray will automatically rotate in opposite direction. This is normal.
6. Glass tray can rotate in either direction.



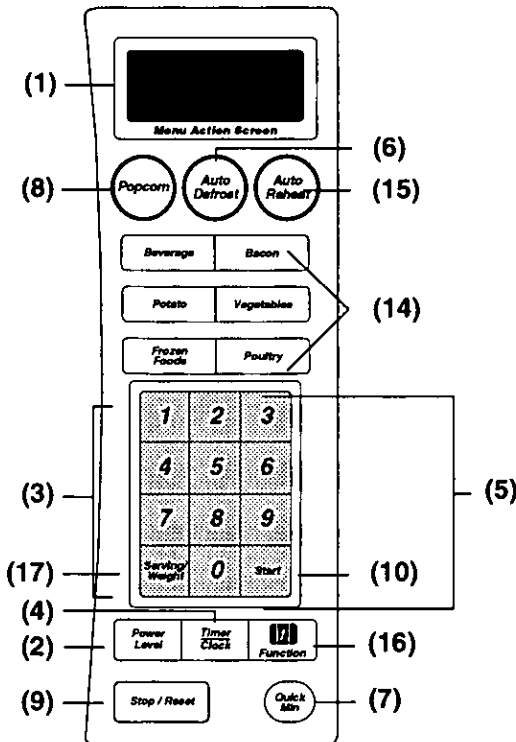
Control Panels

NN-S787/NN-S687/NN-S587



- (1) **Menu Action Screen**
Step by step instructions scroll for easy operation.
- (2) **Power Level Pad** (☛page 10)
- (3) **Number Pads**
- (4) **Timer/Clock Pad** (☛page 10, 11)
- (5) **Cook Action Display**
This totally unique feature of your PANASONIC guides you through the entire cooking process with its illuminated INTERACTIVE CONTROL PANEL. Once a pad has been selected, the COOK ACTION DISPLAY will prompt you to the NEXT step until cooking starts.
- (6) **Auto Defrost Pad** (☛page 12)
- (7) **Quick Min Pad** (☛page 16)
- (8) **Popcorn Pad** (☛page 16)
- (9) **Stop/Reset Pad**
Before cooking: One tap clears your instruction.
During cooking: One tap temporarily stops the cooking process. Another tap cancels all your instructions and time of day or color appears on the screen.
- (10) **Start Pad**
One tap allows oven to begin functioning. If door is opened or **Stop/Reset** Pad is pressed once during oven operation, **Start** Pad must again be pressed to restart oven.
- (11) **Sensor Reheat Pad** (☛page 18)
- (12) **Sensor Cooking Pads** (☛page 18-19)
- (13) **More/Less Pad** (☛page 18)
One tap allows you to add to the Sensor cooking time. Two taps allows you to program less time when using the Sensor cook pads.
- (14) **Auto Cook Pads** (☛page 15)
- (15) **Auto Reheat Pad** (☛page 16)
- (16) **Function Pad** (☛page 8-9)
- (17) **Serving/Weight Pad** (☛page 15)

NN-E777/NN-E677/NN-E577



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- (16) **Function Pad** (☛page 8-9)
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Prompters:

When pads are pressed, a beep sound is heard and the corresponding letter or word(s) appear and roll across the Menu Action Screen (either the Beep Sound or screen may be disabled using the Function Pad). If a pad is pressed and no beep is heard, the unit has 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 usually heard between stages.

Let's Start to Use Your Oven!

1 Plug in



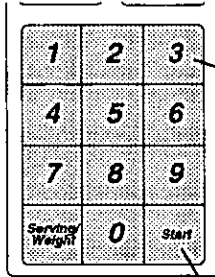
Plug into a properly grounded electrical outlet. "WELCOME TO PANASONIC REFER TO OPERATING INSTRUCTIONS BEFORE USE" scrolls across the Menu Action Screen.

2 Place a cup of water in the oven

Open the door and place a cup of water on the Glass Tray in the oven. Then close the door.

3 Select Power Level

e.g. MEDIUM Power — Press Power Level Pad four times (see page 10 for chart)



4 Set Cooking Time using number pads

e.g. 1 minute 30 seconds








5 Press Start

► The time in the Menu Action Screen will count down.

A unique feature of your PANASONIC 1000w microwave oven is the FUNCTION pad. The initial settings of your microwave are LANGUAGE = ENGLISH, WEIGHT = LB, WORD SPEED = MEDIUM, MENU ACTION SCREEN = ON, CHILD LOCK = OFF, BEEP = ON, REMINDER BEEP = OFF, DAYLIGHT SAVING = OFF, CLOCK = ON, DEMO MODE = OFF. To change any setting, see page 9 (FUNCTION PAD) for other options.

To Use Function Pad

1) 	Press: FUNCTION. Menu Action Message is "Select Function 0 through 9, 1--LANGUAGE CHOICE --- etc". Number pad flashes.
2) Select a number (0-9) Ex. CHILD LOCK is 5	Press: Menu Action Message is "5 -- CHILD LOCK ON/OFF ON -- PRESS 1 OFF -- PRESS 2" Numbers  &  flash.
3) Select  or  on off	Press: Either number. Your selection is now part of the operating system. You can change it any time.
4) Continue until you have completed your selections.	See page 9 for other options.

Functions

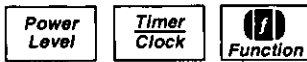
This unique feature of your PANASONIC microwave oven allows you to establish the initial non-cooking features of your oven such as CHILD LOCK, WORD SPEED, LANGUAGE CHOICE (ENGLISH, SPANISH OR FRENCH), plus many more. See below.



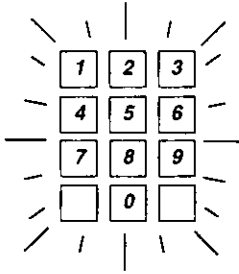
1	<p>LANGUAGE CHOICE The oven has English, French and Spanish display. The display appears in English when you plug-in.</p> <p>1 ENGLISH → Display appears in English. 2 FRANCAIS → Display appears in French. 3 ESPANOL → Display appears in Spanish.</p>
2	<p>Lb/KG CHOICE The oven has both imperial and metric weight measurements. The oven displays the weight in imperial when you plug it in.</p> <p>1 Lb → Weight can be set in lb/oz. 2 KG → Weight can be set in g/kg.</p>
3	<p>WORD SPEED The speed of word scrolling in the display window can be quickened or slowed down.</p> <p>1 QUICK → Words scroll quickly. 2 MEDIUM → Scrolling speed reverts to initial setting. 3 SLOW → Words scroll slowly.</p>
4	<p>MENU ACTION ON/OFF MENU ACTION SCREEN helps you to program your oven by prompting the next step to be taken. When you become familiar with your oven, the prompting can be turned off.</p> <p>1 ON → Prompting Guide will reappear. 2 OFF → Prompting Guide will not appear.</p>
5	<p>CHILD LOCK ON/OFF The oven has Child Safety Lock feature which prevents use by children.</p> <p>1 ON → Child Lock has been set and operation will not be accepted. 2 OFF → Child Lock has been cancelled.</p>
6	<p>BEEP ON/OFF If you wish to have the oven operate with no beep, it can be eliminated.</p> <p>1 ON → Beep sound will activate. 2 OFF → Beep sound will not be heard.</p>
7	<p>REMINDER BEEP ON/OFF A reminder beep works to remind you to remove the food from the oven after the completion of cooking. It will occur every few seconds.</p> <p>1 ON → Reminder beep will work. 2 OFF → Reminder beep will not work.</p>
8	<p>DAYLIGHT SAVING ON/OFF</p> <p>1 ON → Time of day will advance one hour. 2 OFF → Time of day revert to original setting.</p>
9	<p>CLOCK ON/OFF Clock display can be turned off.</p> <p>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 not be lost while the display is off.</p>
0	<p>DEMO MODE ON/OFF Demo mode is designed for retail store display. In this mode, the oven can be demonstrated with no power in the oven.</p> <p>1 ON → The oven will be in demo mode. 2 OFF → The oven will be out of demo mode.</p>

Power & Time Setting

1 Select Power Level



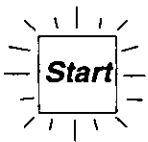
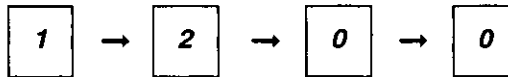
Press	Power Level	% Power
once	HIGH	100%
twice	DEFROST	30%
3 times	MEDIUM-HIGH	70%
4 times	MEDIUM	55%
5 times	MEDIUM-LOW	30%
6 times	LOW	10%



When selecting **HIGH** Power, you can start from step 2.
MENU ACTION MESSAGE is “--- SET TIME”.
(Number pad flashes.)

2 Set Cooking Time

(Up to 99 minutes and 99 seconds) e.g. 12 minutes
Number pad flashes until you enter time.



3 START Flashes

MENU ACTION MESSAGE is “--- PRESS START”. If the door is opened “CLOSE DOOR”.


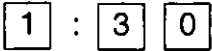

► Cooking will start. The time in the Menu Action Screen will begin to count down.

To recall the selected power level during cooking, press Power Level Pad.

For 2 or 3 stage cooking, repeat above steps 1 and 2 before pressing Start Pad.

At the end of cooking, MENU ACTION MESSAGE IS “ENJOY YOUR MEAL”.

To Set Clock

1. 	PRESS twice for CLOCK. MENU ACTION MESSAGE is “SET TIME : ”. Number pad flashes.
2. SET TIME OF DAY (ex. 1:30) 	MENU ACTION MESSAGE is “ 1:30 --- PRESS CLOCK PAD”.
3. 	Press once. Menu Action Screen displays time of day (clock is a 12 hour clock).

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 Timer

1 Press Timer

PRESS once for TIMER. MENU ACTION MESSAGE is "TIMER -- SET TIME" (up to 99 min & 99 seconds). Number pad flashes.

2 Set desired amount of Time

Example: Set the time for 15 minutes using flashing number pad

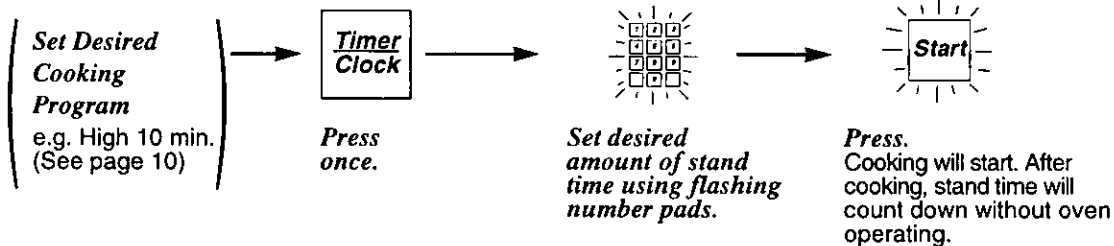


MENU ACTION MESSAGE is "TIMER 15 min 00 sec -- PRESS START". Start flashes.

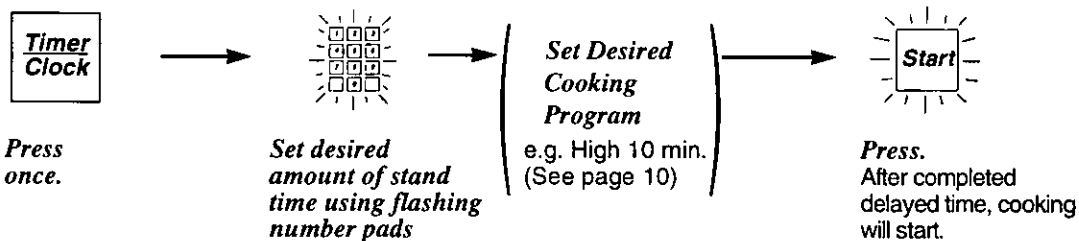
3 Press Start

Display counts down without oven operating. Five beeps will normally sound at the end (see FUNCTION pad for options). MENU ACTION MESSAGE is "ENJOY YOUR MEAL".

To Set Stand Time



To Set Delay Time



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 of 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 99 minutes and 99 seconds.

Auto Defrost

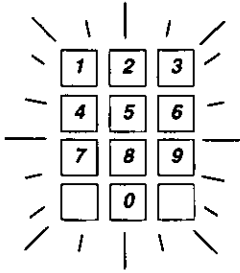
This feature allows you to defrost meat, poultry and seafood by weight without setting time.



1 Press Auto Defrost Pad

MENU ACTION MESSAGE is "AUTO DEFROST --SET WEIGHT". If you have selected the weight system of lbs/oz, "LB OZ" will appear. If you have selected Kg as the weight system, "kg" will appear.

Number pads flash.



2 Weight of Frozen Food

Enter weight using number pads.

ex. 2.5 lbs. is 2 lbs. 8 oz. (see conversion chart below)

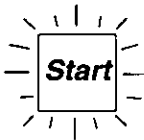
lb.

oz.

or metric

2.5 kg

.



3 START Flashes

After weight has been entered, **Start** flashes.



4 Press START

Defrost time will display and count down.

Conversion Chart

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

Tenths of a Pound	Ounces
0.0	0
0.1	1 - 2
0.2	3 - 4
0.3	5
0.4	6 - 7
0.5	8
0.6	9 - 10
0.7	11 - 12
0.8	13
0.9	14 - 15

NOTE:

1. The shape and size of the 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 of edges can be shielded with strips of aluminum foil.
3. For best results, the minimum recommended weight **8 oz. (220 g).**
4. Stand time or power level may be programmed after Auto Defrost.

Defrosting Tips & Techniques

1. Freeze meats, poultry and fish in packages with **only 1 or 2 layers** of food. Place wax paper between layers.
2. **Package** in heavy-duty plastic wraps, bags or freezer paper.
3. **Remove as much air** as possible.
4. Wrap should be snug against food, sealed securely and labeled.
5. **Remove wrapper** to prevent holding steam and juice. **Juice of food** can get hot and cause the outer surface or bottom of the food to cook; set the food on a microwave roasting rack and drain liquid during defrosting.
6. **Place meat in an appropriate size dish.**
7. **Place roast fat-side down** and **whole poultry breast-side down** on a microwave roasting rack in a dish.
8. Place small items on a microwave roasting rack in a dish.
9. **Large roasts and whole poultry** may still be icy in center after defrosting, allow to stand in the refrigerator covered with plastic wrap (see chart below).
10. Fish and seafood should be slightly icy after defrosting, allow to stand and rinse under cold water for 2-3 minutes.
11. Defrosted items in 2 layers should be **rinsed separately** or **have a longer stand time.**

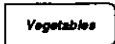


FOOD	DEFROST TIME (min. per pound)	DURING DEFROSTING	AFTER DEFROSTING	
			Stand Time	Rinse
Fish and Seafood [up to 3 lb. (1.5 kg)]			5 min.	NO
Crabmeat	12 to 14	Break apart		
Fish Steaks	6 to 10	Turn over		
Fish Fillets	6 to 8	Turn over/Rearrange		
Sea Scallops	14 to 16	Break apart/Remove defrosted pieces		
Shrimp medium	8 to 10	Break apart/Remove defrosted pieces		
Whole fish	10 to 12	Turn over		
Meat			5 min.	NO
Ground Meat	8 to 10	Turn over/Remove defrosted portion/Shield edges		
Roasts [2½ - 4 lb. (1.2 - 2 kg)]	8 to 12	Turn over/Shield ends and defrosted surface		
Chops/Steak	8 to 10	Separate/Turn over/Rearrange		
Ribs/T-bone	8 to 10	Turn over/Shield		
Stew Meat	10 to 12	Break apart/Shield		
Liver (thin sliced)	8 to 10	Drain liquid/Turn over/Separate pieces		
Bacon	4 to 6	Turn over		
Poultry			20 min. in refrig	YES
Chicken, Whole [up to 3 lb. (1.5 kg)]	6 to 10	Turn over 2 or 3 times/Shield defrosted parts		
Cutlets	6 to 8	Turn over		
Pieces	8 to 10	Separate		
Cornish Hens	8 to 12	Turn over/Rearrange		
Turkey Breast [5 - 6 lbs. (2.5 - 3 kg)]	8 to 12	Turn over 2 to 3 times		

Auto Cook

Using the Auto-Cook Programs

These are tested and pre-timed (based on the power rating of this oven) for the quantity of food listed in the chart below. Locale, power fluctuations and personal tastes are not taken into account. Should you prefer your food cooked differently, use power and time method shown on page 10.

Example: To cook 1/2 lb. (8 oz) of fresh vegetables.

1.		Press
2.	 select 8 oz.	Press the SERVING/WEIGHT pad until the desired quantity appears on the screen.
3.		Press the START pad. The time for cooking will appear on the screen and count. . . Simply open the door to stir or to rearrange the food as per the directions.

The following are the recommended servings / weights.

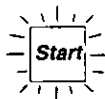
AUTO COOK CODES

PAD	CATEGORY	SERVING/WEIGHT	HINTS
BEVERAGE	COFFEE/TEA	1 - 2 cups (6 - 7 oz each)	DO NOT heat liquids in your microwave oven without stirring first. Heated liquids can erupt if not mixed with air.
	SOUP	1 & 2 servings (8 oz serving)	Use a water based soup.
BACON		2,3,4,6 slices	Place on microwave safe dish and cover with paper towels.
POTATO		1-4 (6-8 oz each)	Pierce skin with a fork, arrange in a circle.
VEGETABLES	FRESH VEGETABLES	4, 8, 12, 16 oz (110,225,340,450 g)	Cover with a lid or plastic wrap. Add small amount of water. Stir occasionally during cooking. Let stand, covered 3-5 minutes before serving.
	FROZEN VEGETABLES	5, 10, 16 oz (150, 300, 450 g)	Follow package directions or place in microwave dish, add water and cover with plastic wrap.
FROZEN FOODS	FROZEN PIZZA	4 & 8 oz (110, 225 g)	Follow package directions. Place pizza on crisper shield.
	FROZEN ENTREE	8,10,20,32 oz (225,300,600,900 g)	Follow manufacturers' directions for covering or removing covers. For best results, do not use frozen foods packaged in foil tray. Halfway through cooking, rearrange or stir.
	FROZEN DINNER	11, 16 oz (300,430 g)	
POULTRY	CHICKEN PIECES	6,12,18,24 oz (170,340,500,680 g)	Place skin-side up. Cover with plastic wrap.
	WHOLE CHICKEN	3.5, 4.0, 5.0, 5.5 lb (1.5, 1.8, 2.2, 2.5 kg)	Place breast-side down. Cover with plastic wrap. Turn to breast-side up halfway through cooking.

Popcorn Function



Set the desired weight of prepackaged microwave popcorn.



Press.
 ➤ Time appears on the screen and begins to count down.

Press	Weight
once	3.5 oz.(99 g)
twice	3.0 oz.(90 g)
3 times	1.75 oz.(50 g)

NOTES:

1. Use prepackaged **room temperature** microwave popcorn. Read manufacturers' instructions.
2. Place bag in oven according to manufacturers' directions.
3. Pop only one bag at a time.
4. After popping, open bag carefully, popcorn and steam are extremely hot.

5. Do not reheat unpopped kernels or reuse bag.
6. **Never** leave oven unattended when popping popcorn.

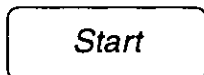
CAUTION:

If pre-packaged popcorn is of a different weight than the recommended weight, do not use the popcorn setting, or inadequate popping or a fire may occur. Follow the manufacturers' instructions.

Quick Min

This feature allows you to set cooking times easily instead of using Number Pads or to add extra cooking time.

To Set Cooking Time:



1. Press to set cooking time (up to 10 minutes).
2. Press Start Pad. Cooking will start on **HIGH** power.

- To use other power levels, select the desired power level before setting the cooking time.
- 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:



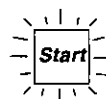
Press Quick Min Pad to add extra cooking time (up to 10 taps) during cooking.

- 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.

Auto Reheat



Select Serving of Food. (1-4)



Press.
 ➤ Time appears on the screen and begins to count down.

NOTES:

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

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.

Foods	Number of Servings	Serving Size	Starting Temp.
Plate of Food	1	12 - 16 oz.	Refrig.
Meat, Poultry	1 - 4	4 - 6 oz.	Refrig.
Casseroles	1 - 2	8 oz.	Refrig.
Side Dishes	1 - 4	4 - 6 oz.	Refrig. or Room
Soup, Sauces, Gravy	1-2	6 - 8 oz.	Refrig. or Room

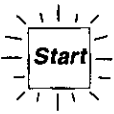
Microwave Shortcuts

FOOD	POWER	TIME (In minutes)	DIRECTIONS
To Melt Butter , ¼ pound To Soften Butter , ¼ pound	MEDIUM MEDIUM-LOW	1 - 2 ½ - 1	Remove wrapper and place butter in a microwave-safe dish.
To Melt Chocolate , 1 square (1 oz.) To Melt Chocolate , ½ cup chips	MEDIUM MEDIUM	2 - 3 2 - 3	Remove wrapper and place chocolate in dish. Stir before adding more time. Chocolate holds its shape even when softened.
To Separate Bacon , 1 lb.	HIGH	½ - 1	Remove wrapper. After heating, use a plastic spatula to separate slices.
To Soften Cream Cheese , 3 oz.	MEDIUM-LOW	½ - 1	Remove wrapper and place in a bowl.
Cup of Water 1 cup (8 oz.) 2 cups (16 oz.) Cup of Milk 1 cup (8 oz.) 2 cups (16 oz.)	HIGH HIGH MEDIUM-HIGH MEDIUM-HIGH	4 6½ 3½ - 4½ 7 - 8	Heated liquids can erupt if not mixed with air. Do not heat liquids in your microwave oven without stirring first.
To Toast Coconut , ½ cup	HIGH	1 - 3	Place in a pie plate or bowl. Stir every 30 seconds.
To Brown Ground Beef , 1 lb.	HIGH	3 - 5	Crumble in microwave-safe colander set in another dish. Stir twice.
To Soften Ice Cream , ½ gallon	MEDIUM-LOW	3 - 4	—————
To Roast Nuts , 1½ cups	HIGH	3 - 5	Spread nuts in 9-inch pie plate. Stir twice.
To Toast Sesame Seeds , ¼ cup	HIGH	2½ - 4	Place in a small bowl. Stir twice.
To Soften Brown sugar	HIGH	½ - ¾	Place 1 cup hard brown sugar in dish with a slice of bread or a wedge of apple. Cover with plastic wrap.
To Remove Oven Odors	HIGH	5	Combine 1 to 1½ cups of water with the juice and peel of one lemon in a small bowl. After heating, wipe interior of oven with damp cloth.

Sensor Reheat / Sensor Cooking (NN-S787,S687,S587)

The **GENIUS** feature allows you to reheat/cook most of your favorite foods without having to select reheating/cooking times and power levels. **THE OVEN DOES IT ALL FOR YOU.**

Sensor Cook Pads

<p>1) Select SENSOR PAD ex. Potatoes (any quantity)</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px;">Potato/ Vegetables</div>	<table border="1" style="width: 100%; text-align: center; font-size: small;"> <tr> <td>Potato/ Vegetables</td> <td>Rice/ Pasta</td> </tr> <tr> <td>Frozen Foods</td> <td>Casseroles/ Stew</td> </tr> <tr> <td>Seafood</td> <td>Poultry/ Meats</td> </tr> </table>	Potato/ Vegetables	Rice/ Pasta	Frozen Foods	Casseroles/ Stew	Seafood	Poultry/ Meats	<p>PRESS until proper food is displayed. MENU ACTION MESSAGE is "POTATO -- PRESS START".</p>
Potato/ Vegetables	Rice/ Pasta							
Frozen Foods	Casseroles/ Stew							
Seafood	Poultry/ Meats							
<p>2) MORE/LESS* Optional</p>								
<p>3)</p> <div style="text-align: center;">  </div>		<p>PRESS. MENU ACTION MESSAGE is "POTATO". Cooking will start. After steam is detected by the SENSOR, 2 beeps will sound, the remaining cooking time appears in the display window and begins to count down. 5 beeps will sound at the end of cooking. To recall the selected category during cooking, press any sensor cooking pad. The category will appear in the display.</p>						

*MORE/LESS PAD


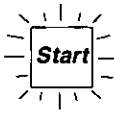
Preferences for food doneness vary with each individual. After having used Sensor Cooking a few times, you may decide you would prefer your food cooked to a different doneness. By using the **More/Less** pad, the programs can be adjusted to cook food for a longer or shorter time.

1 tap = MORE cooking

2 taps = LESS cooking

Press **MORE/LESS** before pressing **START**.

Sensor Reheat Pad

<p>1)</p> <div style="text-align: center;">  </div>	<p>PRESS. MENU ACTION MESSAGE is "SENSOR REHEAT -- PRESS START". Start flashes.</p>
<p>2) MORE/LESS* Optional</p>	
<p>3)</p> <div style="text-align: center;">  </div>	<p>PRESS. MENU ACTION MESSAGE is "SENSOR REHEAT -- CLOSE DOOR". Sensor evaluation begins. After 2 beeps, display will count-down.</p>

NOTES ON SENSOR REHEAT:

Casseroles - Add 3 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.

Follow the recommendations on page 16, in addition to the following:

DO NOT:

1. Reheat bread and pastry products. Use manual power and time for these foods.
2. Reheat raw or uncooked food.
3. Use if oven cavity is warm.
4. Use for beverages.
5. Use for frozen foods.

Sensor Cooking

	CATEGORY	WEIGHT RANGE	INSTRUCTIONS
Potato/ Vegetables	1 x Potato	1 - 4 potatoes 6 - 8 oz. (170 - 230 g) each	Pierce several times and place on a microwave safe dish. Do not cover. After beep, turn over.
	2 x Fresh Vegetables	½ - 2 lb (230-900 g) weight before peeling, trimming, etc.	Add water. Cover loosely with a lid or plastic wrap. After beep, stir or rearrange.
	3 x Frozen Vegetables	10 - 28 oz. (280 - 800 g)	Add 2 tbsp of water. Do not cook with butter or sauce. Cover with plastic wrap. After beep, stir or rearrange.
Rice/Pasta	1 x Rice	Rice . . . Cold water ½ cup . . . 1 cup 1 cup . . . 2 cups 1½ cup . . . 3 cups 2 cups . . . 3½ cups	Place rice and cold water with ¼ to 1 teaspoon salt. Cover with lid or plastic wrap. After beep, stir several times. After cooking, stir and let stand 5 to 10 mins.
	2 x Pasta	4 - 8 oz. (120 - 230 g)	Place 1½-quarts of hot water, pasta, 1 tbsp. oil and 1 tsp. salt in a 4-qt. casserole. Cover with lid. After beep, stir occasionally. After cooking, rinse pasta with cold water.
Frozen Foods	1 x Frozen Entrees	7 - 32 oz. (200 - 900 g)	Follow manufacturers' directions for covering or removing covers. For best results, do not use frozen foods packaged in foil tray.
	2 x Frozen Dinners	9 - 18 oz. (260 - 510 g)	After beep, stir if possible or ladle gravy or sauce over.
Casserole/ Stew	1 x Casserole	1 - 4 qt.	Use appropriate amount of liquid. Cover with casserole lid. Stir occasionally or rearrange after beep. Use recipes in the Cooking Guide section.
	2 x Stew	1 - 4 qt.	
Seafood	1 x Fish Fillets	½ - 1½ lb. (230 - 680 g)	Arrange in a single layer in dish. Cover with lid or plastic wrap. Stir or rearrange after beep.
	2 x Shellfish	½ - 1½ lb. (230 - 680 g)	
Poultry/Meat	1 x Bacon	2 - 6 slices	Place on microwave safe dish. Cover with paper towels.
	2 x Chicken Pieces	½ - 2 lb. (230 g - 1 kg)	Place skin-side up. Cover with plastic wrap. Rearrange after beep.
	3 x Whole Chicken	up to 6 lb. (3 kg)	Place breast-side down. Cover completely with plastic wrap. After beep, turn breast-side up, recover.
	4 x Pork (roast)	2 - 4 lb. (1 - 2 kg)	Place fat-side down. Cover with plastic wrap. After beep, turn over, recover, shield ends of roast with foil if necessary. Pork must reach 170°F (77°C) before serving.
	5 x Beef-medium	2 - 4 lb. (1 - 2 kg)	Place fat-side up. Cover with plastic wrap.

For best results by Sensor, follow these recommendations.

BEFORE Reheating/Cooking:

1. The room temperature surrounding the oven should be below 95°F (35°C).
2. Food weight should be between 4 oz (120 g) and 24 oz (680 g).
3. Glass Tray and outside of container should be dry.
4. Cover foods loosely, but completely, with plastic wrap or place foods in a casserole dish with a proper fitting lid.
5. All foods should be taken from their normal storage place.

DURING Reheating/Cooking:

While "AUTO" is displayed in the display window, DO NOT open door. This causes inaccurate cooking results. Once the timer begins to count down, the oven door may be opened to stir, turn, shield or add foods.

AFTER Reheating/Cooking:

All foods should have a covered stand time.

Food Characteristics

Bone and Fat

Both bone and fat affect cooking. Bones may cause irregular cooking. Meat next to the tips of bones may overcook while meat positioned under a large bone, such as a ham bone, may be undercooked. Large amounts of fat absorb microwave energy and the meat next to these areas may overcook.

Density

Porous, airy foods such as breads, cakes or rolls take less time to cook than heavy, dense foods such as potatoes and roasts. When reheating donuts or other foods with different centers be very careful. Certain foods have centers made with sugar, water or fat and these centers attract microwaves (For ex., jelly donuts). When a jelly donut is heated, the jelly can become extremely hot while the exterior remains warm to the touch. This could result in a burn if the food is not allowed to cool properly in the center.

Quantity

Two potatoes take longer to cook than one potato. As the quantity of the food increases so does the cooking time. When cooking small amounts of food such as one or two potatoes, do not leave oven unattended. The moisture content in the food may decrease and a fire could result.

Shape

Uniform sizes heat more evenly. The thin end of a drumstick will cook more quickly than the meaty end. To compensate for irregular shapes, place thin parts toward the center of the dish and thick pieces toward the edge.

Size

Thin pieces cook more quickly than thick pieces.

Starting Temperature

Foods that are room temperature take less time to cook than if they are chilled or refrigerated or frozen.

Cooking Techniques

Piercing



Foods with skins or membranes must be pierced, scored or have a strip of skin peeled before cooking to allow steam to escape. Pierce whole egg yolks and whites, clams, oysters, chicken livers, whole potatoes and whole vegetables. Whole apples or new potatoes should have a 1-inch strip of skin peeled before cooking. Score sausage and frankfurters.

Browning

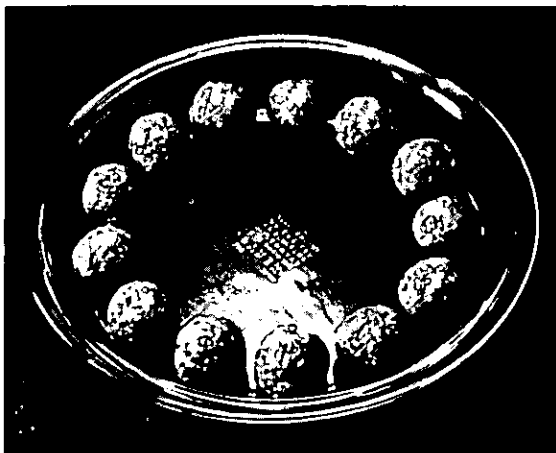


Foods will not have the same brown appearance as conventionally cooked foods or these foods which are cooked utilizing the browning feature. Meats and poultry may be coated with browning sauce, Worcestershire sauce, barbecue sauce or shake-on browning sauce. To use, combine browning sauce with melted butter or margarine; brush on before cooking.

For quick breads or muffins brown sugar can be used in the recipe in place of granulated sugar, or the surface can be sprinkled with dark spices before baking.

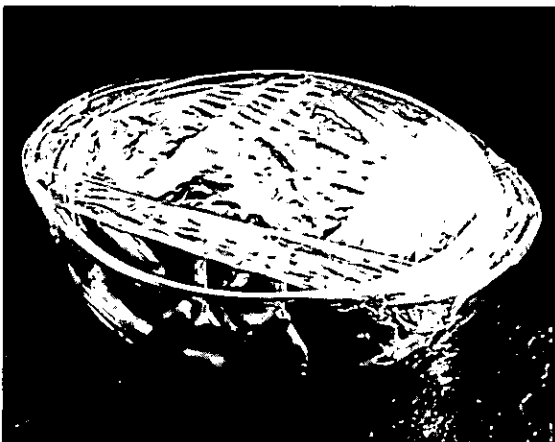
Cooking Techniques

Spacing



Individual foods, such as baked potatoes, cupcakes and appetizers, will cook more evenly if placed in the oven equal distances apart. When possible, arrange foods in a circular pattern.

Covering



As with conventional cooking, moisture evaporates during microwave cooking. Casserole lids or plastic wrap are used for a tighter seal. When using plastic wrap, vent the plastic wrap by folding back part of the plastic wrap from the edge of the dish to allow steam to escape. Loosen or remove plastic wrap as recipe directs for stand time. When removing plastic wrap covers, as well as any glass lids, be careful to remove them away from you to avoid steam burns. Various degrees of moisture retention are also obtained by using wax paper or paper towels. However, unless specified, a recipe is cooked uncovered.

Shielding

Thin areas of meat and poultry cook more quickly than meaty portions. To prevent overcooking, these thin areas can be shielded with strips of aluminum foil. Wooden toothpicks may be used to hold the foil in place.

Timing

A range in cooking time is given in each recipe. The time range compensates for the uncontrollable differences in food shapes, starting temperature and regional preferences. Always cook food for the minimum cooking time given in the recipe and check for doneness. If the food is undercooked, continue cooking. It is easier to add time to an undercooked product. Once the food is overcooked, nothing can be done.

Stirring

Stirring is usually necessary during microwave cooking. We have noted when stirring is helpful, using the words once, twice, frequently or occasionally to describe the amount of stirring necessary. Always bring the cooked outside edges toward the center and the less cooked center portions toward the outside of the dish.

Rearranging

Rearrange small items such as chicken pieces, shrimp, hamburger patties or pork chops. Rearrange pieces from the edge to the center and pieces from the center to the edge of the dish.

Turning

It is not possible to stir some foods to redistribute the heat. At times microwave energy will concentrate in one area of a food. To help insure even cooking, these foods need to be turned. Turn over large foods, such as roasts or turkeys, halfway through cooking.

Stand Time

Most foods will continue to cook by conduction after the microwave oven is turned off. In meat cookery, the internal temperature will rise 5°F to 15°F (3°C to 8°C) if allowed to stand, tented with foil, for 10 to 15 minutes. Casseroles and vegetables need a shorter amount of standing time, but this standing time is necessary to allow foods to complete cooking in the center without overcooking on the edges.

Testing for Doneness

The same tests for doneness used in conventional cooking may be used for microwave cooking. Meat is done when fork-tender or splits at fibers. Chicken is done when juices are clear yellow and drumstick moves freely. Fish is done when it flakes and is opaque.

Meats

Directions for Roasting Meats

Tender cuts, such as beef and lamb roasts should be covered with wax paper to prevent spatter. For pork roasts or hams, cover with plastic wrap or place in an oven cooking bag.

Less tender cuts, such as pot roasts, should be cooked in liquid. Use 1 cup of liquid such as soup or broth per pound of meat. Use an oven cooking bag or covered casserole. Select a covered casserole deep enough so that the meat does not touch the lid.




TO COOK BY TIME:

Multiply the weight of the roast by the minimum recommended minutes per pound. Program Power and Time.

TO COOK BY SENSOR COOKING:

(NN-S787/NN-S687/NN-S587)

Place meat according to "Special Instructions" below. Cover with plastic wrap. Turn Pork Roast fat-side up halfway through cooking time.

1) 	PRESS once = bacon (see pg. 15) twice = chicken pieces 3 times = whole chicken 4 times = PORK 5 times = BEEF-MEDIUM
2)  (optional)	SELECT DONENESS once = more twice = less
3) 	PRESS

Meat Roasting Chart for Sensor & Time Cooking

MEAT	SENSOR COOKING CATEGORY	POWER & TIME COOKING [time in min/lb. (450 g)]		TEMP. AFTER COOKING	SPECIAL INSTRUCTIONS
BEEF ROASTS [2½ to 4 Lb. (1.2 to 2 kg)] Rib/Boneless Rib/Top Sirloin Rare Medium Well Rump, Eye of round (High Quality) Rare Medium Well	— BEEF-MEDIUM — — BEEF-MEDIUM —	MEDIUM MEDIUM MEDIUM MEDIUM MEDIUM MEDIUM	9 to 11 12 to 14 4½ to 16½ 9 to 12 11 to 13 14 to 17	130°F (55°C) 140°F (60°C) 160°F (70°C) 130°F (55°C) 140°F (60°C) 160°F (70°C)	Place roast fat-side up. Cover roast with plastic wrap.
BEEF POT ROAST [2½ to 3½ Lb. (1.2 to 1.7 kg)] Chuck, Rump	—	MEDIUM LOW	30 to 35	—	Cover meat with liquid. Turn meat over half of cooking time.
PORK ROASTS [2½ to 4 Lb. (1.2 to 2 kg)] Bone-in Boneless	PORK PORK	MEDIUM MEDIUM	15 to 18 15 to 18	170°F (77°C) 170°F (77°C)	Place roast fat-side down. Cover pork with plastic wrap. Turn over halfway through cooking time.
HAM (fully cooked)* Canned 3 Lb. (1.5 kg)] Butt [8 Lb. (4 kg)] Shank [8 Lb. (4 kg)] Slice, 1-inch (2.5 cm) thick [1Lb (500 g)]	—	MEDIUM MEDIUM MEDIUM HIGH	8 to 12 13 to 15 3 to 15 5 to 8	140°F (60°C) 140°F (60°C) 140°F (60°C) —	Place ham fat-side up. Cover ham with plastic wrap, except slice.
LAMB ROASTS [2½ to 4 lb. (1.2 to 2 kg)] Bone-in Medium Well Boneless Medium Well	—	MEDIUM MEDIUM MEDIUM MEDIUM	8½ to 13 1 to 16 8 to 11 10 to 15	140°F (60°C) 160°F (70°C) 140°F (60°C) 160°F (70°C)	Place fat-side up. Cover with wax paper.

* The recommended maximum weight will vary according to the cavity size of your microwave oven model and the shape of meat.

Meats

Directions for Convenience Meats

Pierce sausage links with fork and score frankfurters before cooking.

Arrange food in a single layer in dish. Cover with wax paper to prevent spatter. Bacon may be placed on a microwave-safe dish covered with paper towels. Cook according to times given in chart.

Let stand according to recommended time in chart.

Convenience Meats Chart

MEAT	AMOUNT	MANUAL POWER SETTING	APPROX. COOKING TIME (in minutes)	STAND TIME (in minutes)
Bacon, Slices	2	HIGH	1 to 2 2 to 2½ 2½ to 3	1
	3			
	4			
Canadian Bacon, Slices [1 oz. (30 g)]	2	MEDIUM-HIGH	½ to ¾ 1 to 2 3 to 4	1
	4			
	6			
Frankfurters, scored	2	HIGH	2 to 3 3 to 4	3
	4			
Ham, Slices [about 2 oz. (60 g) ea.]	2	HIGH	1½ to 2½ 2½ to 3½	2
	4			
Hamburgers, well [4 oz. (120 g) ea.]	1	HIGH	2 to 3 3 to 4 4½ to 5½	2
	2			
	4			
Lamb Chops, shoulder, ¾-inch (2 cm) thick	2 (about ½ lb.)	MEDIUM-HIGH	5½ to 7 10½ to 12	3
	4 (about 1 lb.)			
Pork Chops, rib or loin, ½-inch (1 cm) thick	2 (about ½ lb.)	MEDIUM-HIGH	4½ to 5½ 8 to 10	3
	4 (about 1 lb.)			
Sausage Links, frozen [precooked, brown and serve]	2	HIGH	1 to 2½ 1½ to 2½ 3 to 4	2
	4			
	8			
Sausage Links, fresh [2 to 3 oz. (60 to 90 g) ea.]	2	HIGH	4 to 6 6 to 8 8 to 10	3
	4			
	8			

Poultry

Directions for Roasting Poultry

Season as desired, but salt only after cooking. Browning sauce mixed with equal parts of butter will enhance appearance.

Poultry may be stuffed or unstuffed. Tie legs together with cotton string. Whole chicken should be placed breast-side down on a microwave roasting rack set in an 8-to 10-inch square dish or 2½-quart shallow oval casserole dish.

Cover with wax paper to prevent spatter.

During cooking it may be necessary to shield legs, wings and breast bone to prevent overcooking. Wooden toothpicks can be used to hold foil in place.

If a large amount of juice accumulates in the bottom of the baking dish, occasionally drain it. If desired, reserve for making gravy.

To Cook Whole Poultry:

Multiply the weight of the poultry by the minimum recommended minutes per pound. Program Power and Time.

To Cook Chicken Parts:




Arrange pieces skin-side up, with meatier portions toward edge of dish. Cover with wax paper. Poultry is cooked when juices are clear. If there is a slight pink color in the juice, return poultry parts to the oven and cook one or two minutes longer.

Let stand, covered, 5 minutes before serving.

TO COOK BY SENSOR COOKING:

(NN-S787/NN-S687/NN-S587)

Arrange pieces skin-side up, whole poultry breast-side up, with meatier portions towards edge of dish. Cover completely with plastic wrap. Cook on Sensor Cooking Category.

1) 	PRESS once = bacon twice = CHICKEN PIECES 3 times = WHOLE CHICKEN 4 times = pork 5 times = beef-medium
2)  (optional)	SELECT DONENESS once = more twice = less
3) 	PRESS

After Cooking, check the temperature of large chickens and turkeys with a meat thermometer. Check the temperature in both thigh muscles. If the thermometer touches bone, the reading may be inaccurate.

DO NOT use a conventional thermometer in the oven when cooking by microwave. Use only a microwave-safe thermometer.

Poultry Chart for Sensor & Time Cooking

POULTRY	SENSOR COOKING CATEGORY	POWER & TIME COOKING [time in min/lb. (450 g)]		TEMP. AFTER COOKING	SPECIAL INSTRUCTIONS
Cornish Hens, whole [1 to 1½ lb. (500 to 750 g) ea.]	—	HIGH	7 to 9	—	Place breast-side up.
Chicken parts	CHICKEN PIECES		7 to 8	—	Place skin-side up. Cover with plastic wrap
Chickens [up to 4 lb. (2kg)]	WHOLE CHICKEN	MEDIUM-HIGH	8½ to 11½	—	Place breast-side down. Turn breast-side up after half of cooking time. Cover with plastic wrap.
Chickens [4 to 6 lb. (2 to 3 kg)]			14 to 16	180°F–190°F (80°C–90°C)	
Turkey Breast [5 to 7 lb. (2.5 to 3.5 kg)]	—	MEDIUM	15 to 17	180°F–190°F (80°C–90°C)	Place breast-side up.
Duck [3 to 5 lb. (1.5 to 2.5 kg)]	—	MEDIUM-HIGH	8 to 10	180°F–190°F (80°C–90°C)	—
Turkey* [8 to 12 lb. (4 to 6 kg)]	—		12 to 14	180°F (80°C)	—

* The recommended maximum weight of turkey will vary according to the cavity size of your microwave oven model.




Fish and Seafood

Directions for Preparing Fish and Seafood

Use fresh or defrosted clean fish. Arrange fish in a single layer in dish. For best results, avoid overlapping edges as this will prevent fish from cooking evenly.

Place thicker sections toward edge of the dish. (i.e., tail sections toward center).

Cover dish loosely, but completely with plastic wrap.

1) 	PRESS once = FISH FILLETS twice = SHELLFISH
2)  (optional)	SELECT DONENESS once = more twice = less
3) 	PRESS

TO COOK BY SENSOR COOKING:

(*NN-S787/NN-S687/NN-S587*)

Stir shrimp or scallops when time appears on the screen. Let stand, covered, 5 minutes.

TO COOK BY TIME: Arrange shrimp and scallops in single layer in dish. Cook on the recommended power level and minimum time in the chart. Rearrange or stir shrimp or scallops halfway through cooking.

Test for doneness before adding extra cooking time. The color of seafood and fish should be opaque and the fish should flake easily when tested with a fork. If undercooked, return to oven and cook 15 to 30 seconds longer at recommended power level.

After cooking, let stand, covered, 3 to 5 minutes before serving. Stand time allows the internal temperature to equalize throughout the food and thereby completes the cooking process.

Fish and Seafood Chart for Sensor & Time Cooking

FISH OR SEAFOOD	SENSOR COOKING		TIME COOKING		
	AMOUNT	CATEGORY	AMOUNT	MANUAL POWER SETTING	APPROX. COOKING TIME (in minutes)
Fish Fillets	1/2 to 2 lb. (250 g to 1kg)	FISH FILLETS	1 lb. (500 g)	HIGH	5 to 7½
Fish Steaks [1-inch (2.5 cm) thick]	—	—	1 lb. (500 g)	MEDIUM-HIGH	5½ to 7
Scallops (sea)	1/2 to 2 lb. (250 g to 1 kg)	SHELLFISH	1 lb. (500 g)	MEDIUM-HIGH	5 to 6
Shrimp, medium size (shelled and cleaned)	1/2 to 2 lb. (250 g to 1 kg)	SHELLFISH	1 lb. (500 g)	MEDIUM-HIGH	5 to 6
Whole fish, cleaned (stuffed or unstuffed)	—	—	1 to 1½ lb. (500 g–750 g)	HIGH	5 to 7

Casseroles

Directions for Preparing Casseroles

Prepare casseroles and stews according to recipe directions. Stew meats are not browned before cooking. Omit any oil or fat and flour used for browning. Fresh and firm vegetables such as potatoes, carrots, rutabagas and beans are added at the beginning of cooking. Frozen vegetables and fresh vegetables with soft texture such as zucchini, tomatoes or mushrooms are added during the last 30 minutes of cooking. Defrosted frozen vegetables are canned vegetables are added with the thickener. Place covered microwave-safe dish in oven.

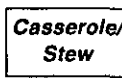


TO COOK BY SENSOR COOKING:

(*NN-S787/NN-S687/NN-S587*)

Select Sensor Category “**Casserole**” and press **Start** Pad.

TO COOK BY TIME: Prepare casseroles or stew by microwaving at lower power levels. **MEDIUM** and **MEDIUM-LOW** power levels allows flavors to blend and less tender cuts of meat to become tender.

Use our recipes in the Panasonic Cooking Guide as a guideline for adapting your favorite recipes (see page 31).

1) 	PRESS 1 x = CASSEROLE 2 x = STEW
2) 	SELECT DONENESS 1 x = more 2 x = less
3) 	PRESS

Vegetables

To Cook Fresh Vegetables

Weight given in the chart are purchase weights before peeling, trimming, etc. Prepare vegetables for cooking; cut slice or trim as directed in chart.

Cook vegetables in covered casserole, except for whole, unpeeled vegetables.

Whole, unpeeled vegetables, such as potatoes or eggplant, should be pierced before cooking and arranged on microwave-safe dish in the oven. Arrange potatoes in a circular pattern on dish.

TO COOK BY TIME: Cook according to the time recommended in the chart. Two-thirds of the way through cooking, stir, rearrange, and/or turn vegetables over.

TO COOK BY SENSOR COOKING:

(NN-S787/NN-S687/NN-S587)

When time appears on the screen, stir vegetables.

After cooking, stir vegetables. Let stand, covered, before serving. Vegetables that are cut into pieces should stand 3 minutes. Whole vegetables should stand 5 minutes.

To Cook Frozen Vegetables

TO COOK BY SENSOR COOKING:




(NN-S787/NN-S687/NN-S587)

Empty 10-28 oz. package of frozen vegetables into glass container. Add 2 tablespoons water.

Cover dish with lid, or loosely but completely, with plastic wrap. Cook on **Frozen Vegetables**.

For frozen vegetables in the pouch, pierce a hole in the pouch, place on a dish and cook on **Frozen Vegetables**. After cooking, stir and let stand, covered, 3 minutes before serving. **DO NOT** cook frozen vegetables which contain any type of butter or sauce by Sensor Cooking Pad.

Never leave oven unattended when heating small amounts of foods such as one or two potatoes. Potatoes may catch fire if overcooked and cause severe damage to the oven and surroundings.

1) 	PRESS once = POTATO twice = FRESH VEGETABLES 3 times = FROZEN VEGETABLES
2)  (optional)	SELECT DONENESS once = more twice = less
3) 	PRESS

Fresh Vegetable Chart for Sensor & Time Cooking

VEGETABLE	AMOUNT	WATER	SENSOR COOKING CATEGORY	APPROX. COOKING TIME at HIGH Power (in minutes)
Artichokes, 6 to 8 oz. ea.	1	2 tablespoons	FRESH VEG.	6 to 7
	2	1/4 cup		9 to 11
	4	1/4 cup		14 to 16
Asparagus, 6-in spears	1 lb. (500 g)	2 tablespoons		7 to 8
Beans, green/wax, cut into 1½-in. pieces	1 lb. (500 g)	1/4 cup		7 to 9
Broccoli, cut into spears	1 lb. (500 g)	1/4 cup		7 to 10
Brussels Sprouts	1 tub [10 oz. (300 g)]	2 tablespoons		7 to 9
Cabbage, shredded	1 lb. (500 g)	1/4 cup		7 to 9
Carrots, sliced 1/2-in. thick	1 lb. (500 g)	1/4 cup		7 to 9
Corn, fresh on the Cob	1 ear	2 tablespoons		—
	2 ears	2 tablespoons	—	7 to 9
	4 ears	1/4 cup	—	12 to 14
Eggplant, fresh cubed Whole (pierce skin several times)	1 lb. (500 g)	1/4 cup	FRESH VEG.	7 to 8½
	1 to 1½ lb. (500 to 600 g)	—		4½ to 7
Onions, small whole	8 to 10	1/4 cup	—	6½ to 7½
	[1 lb. (500 g)]			
Peas, green, shelled	2 lb. (1kg)	1/4 cup	FRESH VEG.	6 to 8
Potatoes, 8 to 9 oz. ea. Cook uncovered, turn over halfway through cooking time. Pierce skin several times before cooking.	1	—	POTATO	5 to 7
	2	—		8 to 10
	4	—		13 to 15½
Spinach, leaf	1 lb. (500 g)	2 tablespoons	—	5½ to 7
Squash, Summer, sliced 1/2-in. thick	1 lb. (500 g)	2 tablespoons	FRESH VEG.	6 to 8
Squash, Winter, Cut in half, scoop out seeds, place cut-side down.	1 lb. (500 g)	1/4 cup	—	6½ to 7½

Pasta, Rice and Cereal

ITEM	CONTAINER	AMOUNT OF HOT WATER	SENSOR COOKING CATEGORY	POWER	APPROX. COOKING TIME (in min.)	STAND TIME (in min.)	SPECIAL INSTRUCTIONS
PASTA Egg Noodles medium width (8 oz.)	3-qt. casserole	1½ quarts	PASTA	HIGH	7 - 9	3	Add 1 teaspoon oil and 1 teaspoon salt to hot water. For Sensor Cooking, add pasta, cook uncovered. For Time Cooking, cover and bring water to boil (HIGH for 10 - 15 minutes). Stir in pasta. Cook, covered; stir occasionally. Let stand, covered. Pasta that is to be added to a casserole should be slightly undercooked.
Specialty Noodle (8 oz.)	3-qt. casserole	1½ quarts		HIGH	8 - 12	3	
Spaghetti or Fusilli (8 oz. broken)	3-qt. casserole	2 quarts		HIGH	12 - 14	3	
Frozen Tortellini (16 oz.)	3-qt. casserole	1½ quarts		HIGH	7 - 9	3	
RICE Flavored Rice Mix (4.4 to 7.5 oz.)	2-qt. casserole	as pkg. directs	RICE	MEDIUM	15 - 30 or as pkg. directs	10	Cover & heat water to a boil at HIGH (approx. 4 - 7 min.). Add rice, salt & butter (amount of salt & butter as package directs). Cook covered; stir. For long grain rice, combine all ingredients, cook covered. Stir after 2 beeps. Let stand, covered. For Sensor Cooking, combine all ingredients in cold water. Cook covered. Stir & let stand.
Long Grain (1 cup)	2-qt. casserole	2 cups		MEDIUM -LOW	13 - 16	10	
Short Grain (1 cup)	2-qt. casserole	2 cups		MEDIUM -LOW	10 - 12	10	
CEREAL Cream of Wheat (Reg.) 1 serving (2½ tbsp.)	1-qt. glass bowl	¾ cup		HIGH	2 - 4	1	Stir cereal into water. Stir frequently. Cook uncovered. Stir once before stand time.
2 servings (½ cup)	1½-qt. glass bowl	1½ cups		HIGH	3 - 5	1	
Farina 1 serving (3 tbsp.)	1-qt. glass bowl	1 cup		HIGH	2 - 3	1	Cover and heat hot water to a boil at HIGH (approx. 3 to 6 min.) Slowly add cereal; stirring frequently. Cook uncovered. Stir once before stand time.
2 servings (6 tbsp.)	1½-qt. glass bowl	2 cups		HIGH	2 - 4	1	
Oatmeal (Quick) 1 serving (½ cup)	individual serving dish	¾ cup		HIGH	1 - 2	1	Combine water and cereal. Cook uncovered. Stir once before stand time.
2 servings (¾ cup)	2 individual serving dishes	1½ cups		HIGH	3 - 4	1	
4 servings (1½ cups)	2-qt. glass bowl	3 cups		HIGH	5 - 6	2	
Wheat Bran Cereal 1 serving (½ cup)	1-qt. glass bowl	¾ cup		HIGH	3 - 4	1	
2 servings (½ cup)	1½-qt. glass bowl	1½ cups		HIGH	6 - 7½	1	
4 servings (1 cup)	2-qt. glass bowl	3 cups		HIGH	7 - 8	2	

To prepare Instant Rice: Combine 1 cup water, 1 teaspoon butter and dash salt in 1-quart casserole. Cover with lid. Cook at **HIGH** 2 to 3 minutes or until water boils. Stir in 1 cup rice. Let stand, covered, 5 minutes. Fluff lightly with fork before serving.

Quick Breads and Cakes

Layer cakes must be baked **one layer at a time**, or the entire cake mix may be baked in a 16-cup fluted tube dish. Prepare batter according to package, chart or recipe directions.

Use dishes recommended in chart or in recipes. Glass dishes allow the bottom of the cakes to be checked for doneness. When the product is removed from the oven, visually check bottom.

If cake is to be inverted or removed from dish, such as layer cakes or upside-down cake, grease sides of dish and line bottom of 8" or 9" round or square dish with wax paper.

If cake is to be served directly from the dish, grease bottom of dish. Never flour cake dishes, fluted tube dishes or muffin pans.

Cook second layer of 8" or 9" round or square cake immediately after the first. The remaining batter can be used for cupcakes.

Check during cooking. Different brands vary in ingredients and density of batter; cooking times may be slightly different than those given in chart.

After cooking:

Test for doneness. Check to make sure edges of cake are dry and have begun to pull away from sides of dish, and toothpick inserted near center comes out clean.

Let stand, uncovered, on a flat surface for 10 to 15 minutes. Stand time is important to allow cakes and cupcakes to finish baking. Cakes and breads that are to be inverted should be loosened from the sides of the dish. Carefully turn out of dish. Remove wax paper from bottom of cake. Store, covered, until ready to serve.

For best results, it is recommended to follow microwave cooking instructions issued by the individual cake mix manufacturers. For best results, always undercook.

ITEM	AMOUNT OF BATTER	PREPARATION/DISH SIZE	FIRST STAGE	SECOND STAGE	SPECIAL INSTRUCTIONS	STAND TIME
Quick Bread (14 to 17 oz.)	All batter	Line bottom of 8½" x 4½" x 2½" loaf dish with wax paper.	MEDIUM-LOW 7 - 9 min.	HIGH 4½ - 5½ min.	Shield each end with a 3" strip of foil. Mold foil around handle.	15 min. uncovered
Cornbread (7 or 8 oz.)	All batter	Grease 8" or 9" round or square dish.	MEDIUM-HIGH 3½ - 6 min.	—	Cover with wax paper.	10 min. uncovered
Gingerbread (14 oz.)	All batter	8" square dish	HIGH 8 - 12 min.	—	Shield each corner with a piece of foil. Place dish on a microwave-safe inverted pie plate.	15 min. uncovered
Muffins (Cook 6 at a time)	Fill ½ full	6-cup muffin pan lined with paper baking cups	MEDIUM 2½ - 5 min.	—	—	5 min. uncovered
Cake Mix (18 to 20½ oz.)	2½ cups	Wax paper-lined 8" or 9" round or square glass baking dish	MEDIUM-LOW 6 - 8 min.	HIGH 3 - 4½ min.	Place dish on microwave-safe inverted pie plate. Cover with wax paper.	10 min. uncovered
Cake Mix (18 to 20½ oz.)	Prepare batter according to package directions. Pour all batter into pan.	Generously grease 16-cup fluted tube pan	MEDIUM-LOW 8 - 10 min.	HIGH 6 - 11 min.	Cover pan with wax paper.	—
Cupcakes	2 rounded tablespoons batter per cupcake. Fill paper baking cups ½ full.	Line microwave muffin pan with paper baking cups. 2 4 6	MEDIUM (in minutes) 1½ - 2 2 - 2½ 3½ - 4½	—	Cover with wax paper.	5 min. uncovered

Eggs and Cheese

SCRAMBLED EGGS

Beat eggs, 1 tablespoon milk and dash of salt for each egg. Pour into greased glass container. Cook at **MEDIUM-HIGH** according to time in the chart. Stir two-thirds of the way through the cooking time. Stir and let stand. Eggs will continue to cook during stand time and should be slightly undercooked after cooking.

Eggs	Container	Cooking Time (in min.)	Stand Time (in min.)
1	1-cup glass measure	¾ - 1¼	1
2	1-cup glass measure	1½ - 2	1½
4	1-quart bowl	3¼ - 3¾	1½
6	1½-quart bowl	4¾ - 5½	2

POACHED EGGS

Place 1½ cups hot water and a dash of vinegar and salt in 2-quart casserole and heat at **HIGH** 5 to 7 minutes, or until water boils. Break egg(s) into boiling water and with toothpick pierce egg yolk twice and egg white several times. Cook at **MEDIUM-HIGH** according to the time given in the chart. Let stand. Eggs will continue to cook during stand time and should be slightly undercooked after cooking.

Eggs	Cooking Time (in minutes)	Stand Time (in minutes)
1	½ - ¾	1
2	1 - 1¼	2
4	1¾ - 2	2

Eggs cannot be hard-cooked in their shells in a microwave oven. Pressure will build up and the egg will explode.

Pies

Prepare pastry according to recipe or package directions.

If desired, for a single crust homemade pastry recipe, substitute ½ cup whole wheat flour for ½ cup all-purpose flour.

Microwave pie crusts are light in color. A few drops of yellow food coloring may be mixed with the liquid before adding liquid to the flour mixture. This will give the crust a pale yellow color.

Roll dough out and gently place in pie plate.

Trim edge so a ¾-inch overhang remains. Roll overhang down to rim of pie plate. Flute edge.

Prick bottom and sides of pastry with fork.

Let pie crust rest 10 minutes. This rest time helps reduce shrinkage.

If desired, brush with dark corn syrup or molasses for sweet fillings, or brush with Worcestershire or soy sauce for savory fillings.

For frozen crust, thaw and remove from foil pie plate and place in an 8- or 9-inch glass pie plate. Place on an inverted pie plate. Heat ½ minute, then prick crust and, if desired, brush with dark corn syrup, molasses, Worcestershire or soy sauce.

For crumb crusts, combine ½ cup butter and ¼ cup sugar in medium bowl. Heat at **HIGH** 1½ to 2 minutes, or until butter is melted. Stir in 1¼ cups crumbs (graham crackers, chocolate or vanilla wafers). Firmly pat into greased 9-inch pie plate.

Cook according to directions given in chart.

Visually check for doneness. Pastry crusts should be opaque. If crust is undercooked, add cooking time in 15 second increments.

Let stand until cool. Chill crumb crusts.

PIE CRUST CHART

ITEM	POWER	APPROX. COOKING TIME (in minutes)
Homemade or Mix	HIGH	3 to 4
Refrigerated	MEDIUM-HIGH	4½ to 5
Frozen	HIGH	2 to 2½
Graham Cracker or Cookie Crumb	MEDIUM-HIGH	2 to 2½

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, blow dryers, 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 operating the microwave oven without any food in it.

PROBLEM

POSSIBLE CAUSE

REMEDY

Oven will not turn on.

The oven is not plugged in securely.

Remove plug from outlet, wait 10 seconds and reinsert.

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 it 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 entered already in the oven.

Press **Stop/Reset** Pad to cancel the previous program and program again.

The program is not correct.

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.

Clock pad has been pressed three times.

Deactivate mode by pressing Clock Pad three times.

When the oven is turning on, there is noise coming from the glass tray.

The roller ring and oven bottom are dirty.

Clean these parts according to Care of Your Oven (next page).

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 the Roller Ring and Glass Tray in the proper position and press Stop/Reset Pad to clear the screen.

Inside of the oven:

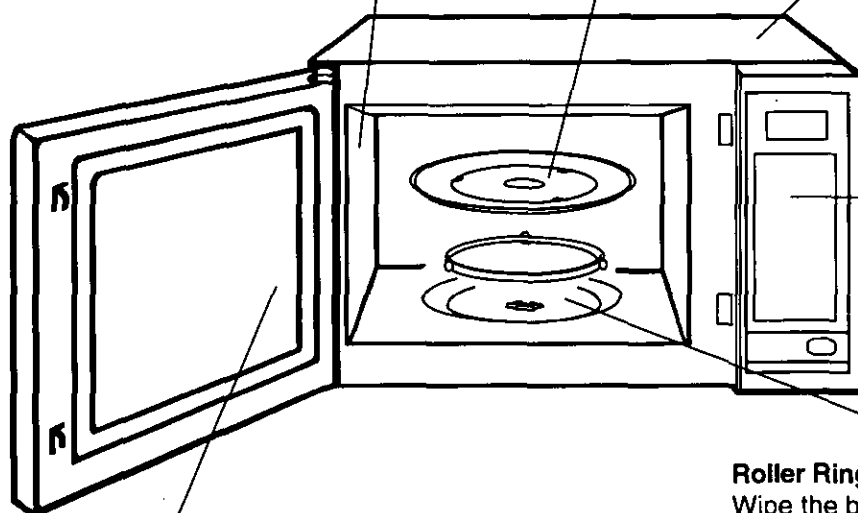
Wipe with a damp cloth. Mild detergent may be used if the oven gets very dirty. The use of harsh detergent or abrasives is not recommended.

Glass Tray:

Remove and wash in warm sudsy water or in a dishwasher.

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.



Control Panel:

If it becomes wet, clean with a soft, dry cloth. Do not use harsh detergents or abrasives on the Control Panel.

Oven Door:

Wipe with a soft cloth when steam accumulates inside or around the outside of the oven door. During cooking, especially under high humidity conditions, steam is given off from the food. (Some steam will condense on cooler surfaces, such as the oven door.) This is normal.

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 sudsy water or dishwasher. These areas should be kept clean to avoid excessive noise.

For more information regarding microwave cooking, order our new COOKING GUIDE.

DESCRIPTION	PART NUMBER	PRICE
Instruction/Operating Manual (this book)	B00039410AP	①
Cooking Guide	B000B8250AP	①
Glass Tray (see diagram on page 7)	A06015690QP (NN-S587, E577)	\$18.79
	A06014000AP (NN-S77, E777, S687, E677)	\$24.31
Roller Ring (see diagram on page 7)	B290D5950AP (NN-S587, E577)	\$ 8.40
	B290D5500AP (NN-S77, E777, S687, E677)	\$13.16

① For pricing quotes, call or write the Parts & Literature Department at the phone or address listed below. Please have your credit card information readily available.
Shipping & handling are not included. Price & availability subject to change. Sorry, no COD's.

PANASONIC SERVICES COMPANY
 20421 84th Avenue South
 Kent, WA 98032

(800) 833-9626 - Phone
 (800) 237-9080 - FAX

Instrucciones de Seguridad

Su horno de microondas es un aparato para cocinar y debe usarse con mucho cuidado al igual que cuando usted usa estufa o cualquier otro aparato para cocinar.

Cuando se usan aparatos eléctricos, se deben seguir precauciones básicas de seguridad, incluyendo las siguientes:

PRECAUCION - Para reducir el riesgo de quemaduras, descarga eléctrica, incendio, heridas a personas o exposición excesiva a energía de microondas:

1. Lea todas las instrucciones antes de usar el aparato.
2. Lea y siga las "**PRECAUCIONES PARA EVITAR POSIBLE EXPOSICION EXCESIVA A ENERGIA DE MICROONDAS**" específicas, que se encuentran abajo.
3. Este aparato debe ser conectado a tierra. Conecte solamente a la toma eléctrica debidamente conectada a tierra. Vea las "**INSTRUCCIONES PARA CONEXIÓN A TIERRA**" que se encuentran en la página 33.
4. Instale o ubique este aparato solamente de acuerdo con las instrucciones de instalación que se encuentran en la página 33.
5. No cubra ni tape ninguna de las rendijas de este aparato.
6. No almacene o use este aparato en exteriores. No use este aparato cerca del agua - por ejemplo, cerca del fregadero de la cocina, en una base mojada, o cerca de una alberca, y similares.
7. Use este aparato sólo para los fines para los que fué hecho, tal como se describen en este manual. No use químicos o vapores corrosivos en este aparato. Este tipo de horno está específicamente diseñado para calentar o cocinar alimentos. No fué diseñado para uso industrial o de laboratorio.
8. Cuando limpie las superficies de la puerta y el horno que vienen juntas al cerrar la puerta, use solamente jabones no abrasivos o detergentes suaves aplicados con una esponja o con tela suave.
9. No permita a los niños usar este aparato, a menos que sean supervisados muy de cerca por un adulto.
10. No use este aparato si tiene dañado el cordón o la clavija, si no está trabajando adecuadamente, o si ha sido dañado o se ha dejado caer.
11. No sumergir en agua el cable o la clavija.
12. Mantenga el cordón lejos de superficies calientes.
13. No deje el cordón colgando en el borde de la mesa o mostrador.
14. Este aparato debe recibir mantenimiento sólo de personal calificado. Contacte las instalaciones de servicio autorizadas más cercanas para revisión, reparación o ajuste.
15. Algunos productos, tales como los huevos completos y contenedores sellados - por ejemplo frascos de vidrio cerrados - pueden explotar y no deben ser calentados en este horno.
16. Para reducir el riesgo de incendio en la cavidad del horno:
 - (a) No sobrecocine los alimentos. Preste atención cuidadosamente al aparato. El papel, plástico u otros materiales combustibles son colocados dentro del horno para facilitar la cocción pero si no se utilizan adecuadamente esto puede producir incendio en su horno.
 - (b) Quite los sujetadores de alambre de las bolsas de papel o plástico antes de colocar la bolsa en el horno.
 - (c) Si los materiales dentro del horno se incendiaran, mantenga cerrada la puerta del horno, póngalo en posición de apagado, y desconecte la energía eléctrica, o corte el suministro eléctrico en la caja de fusibles o en el panel de control.
 - (d) No use la cavidad con propósitos de almacenaje. No deje productos de papel, utensilios de cocina o alimentos en la cavidad cuando no esté en uso.

Guarde estas instrucciones

PRECAUCIONES PARA EVITAR POSIBLE EXPOSICION EXCESIVA A ENERGIA DE MICROONDAS

- (a) No intente hacer funcionar este horno con la puerta abierta ya que esto puede resultar peligroso. Es importante no anular o bioquear los mecanismos de seguridad.
- (b) No coloque ningún objeto entre el panel frontal del horno y la puerta, ni permita que se acumule basura o residuos de limpiadores en las superficies de sellado.
- (c) No haga funcionar el horno si está dañado, es importante que la puerta del horno abra y cierre apropiadamente:
 - (1) la puerta (combada)
 - (2) bisagras y seguro de la puerta (rotos o sueltos)
 - (3) sellos de las puertas y superficies de sellado
- (d) El horno no deberá ser ajustado o reparado por ninguna persona, excepto el personal de servicio debidamente calificado.

Instrucciones de Seguridad

Uso General

1. **NO** altere o haga ningún ajuste o reparación a la puerta, al alojamiento del panel de control, interruptores entrecruzados de seguridad o a cualquier otra parte del horno. **NO** quite el panel exterior del horno. Las reparaciones deben ser hechas solamente por personal de servicio calificado.
2. **NO** opere el horno vacío. La energía de microondas se reflejara en el interior del horno si no hay alimentos o agua para absorber la energía.
3. **NO** utilice este horno para calentar químicos o cualquier otros productos no alimenticios. **NO** limpie este horno con cualquier producto etiquetado con contenido químico corrosivo. El calentamiento de químicos corrosivos en este horno puede causar fugas de radiación.
4. **NO** seque telas, periódicos u otros materiales en el horno. Pueden incendiarse.
5. **NO** use productos de papel reciclado, ya que pueden contener impurezas que pueden causar chispas y/o incendios cuando se usen.
6. **NO** use periódicos o bolsas de papel para cocinar. Puede causar un incendio.
7. **NO** pegue, **NO** golpee el panel de control. Pueden causarse daños a los controles. Puede causar un incendio.
8. Las manoplas para tomar cosas calientes siempre deben ser utilizados cuando se retiren cosas de el horno. El calor se transfiere de los alimentos calientes a los contenedores para cocinar y de los contenedores a la Bandeja de Cristal. La Bandeja de Cristal puede estar muy caliente después de sacar los contenedores para cocinar del horno.
9. **NO** almacene materiales flamables cerca, arriba, o dentro del horno. Pueden ser riesgos de incendio.

Instrucciones Para Conexión a Tierra

Este aparato debe ser conectado a tierra. En el caso de un corto circuito, la conexión a tierra reduce el riesgo de una descarga eléctrica proporcionando una línea de escape para la corriente eléctrica. Este aparato está equipado con un cable y clavija para conexión a tierra. La clavija debe ser conectada en un tomacorriente que esté instalado adecuadamente y conectado a tierra.

PRECAUCION - El uso inapropiado de la clavija para conexión a tierra puede resultar en riesgo de descarga eléctrica.

Consulte a un electricista o a personal de servicio calificados, si las instrucciones para conectar a tierra no son completamente comprendidas o si existe duda de que el aparato está correctamente conectado a tierra. Si es necesario usar un cable de extensión, use solamente cable de extensión de tres hilos que tenga una clavija de tres entradas para conectar a tierra, y un tomacorriente de tres ranuras que acepte la clavija del aparato. El calibre marcado en el cable de extensión debe ser igual o mayor al calibre eléctrico del aparato.

Suministro Eléctrico

1. Se provee un cable de suministro eléctrico corto para reducir los riesgos resultantes de enredarse o tropezarse con un cable más largo.
2. Juegos de cable más largos o extensiones están disponibles y pueden utilizarse si se usan con cuidado.
3. Si se usa un cable más largo o extensión, (1) el calibre eléctrico marcado en el juego de cordón o extensión debe ser al menos tan grande como el calibre eléctrico del aparato, (2) el cable de extensión debe ser de tres hilos del tipo de conexión a tierra, y (3) el cordón más largo debe ser arreglado de tal forma que no caiga sobre la cubierta del mostrador o de la mesa donde pueda ser jalado por niños o tropezarse accidentalmente.

Instrucciones de Instalacion

Examine Su Horno

Desempaque el horno, quite todo el material de empaque y examine que su horno no tenga ningún daño, tales como abolladuras, seguros de la puerta rotos o resquebrajaduras en la puerta. Notifique inmediatamente a su distribuidor si el horno está dañado.



Ubicación del Horno

1. El horno debe ser colocado en una superficie plana y estable. Para su operación apropiada, el horno debe tener suficiente corriente de aire. Deje 8 cm de espacio de ambos lados del horno y 2.5 cm de espacio en la parte superior del horno.
 - a. **NO** tape las ventilas de aire. Si están tapadas durante su operación, el horno puede sobrecalentarse. Si se sobrecalienta, un dispositivo térmico de seguridad apagará el horno. El horno no operará hasta que se haya enfriado.
 - b. **NO** coloque el horno cerca de una superficie húmeda caliente, tal como un registro de gas o eléctrico.
 - c. **NO** opere el horno cuando la humedad del cuarto sea muy alta.
2. Este horno ha sido fabricado para uso en el hogar solamente.

Interferencia de Radio

1. La operación de su horno de microondas puede causar interferencia en su radio, TV o equipo similar.
2. Cuando hay interferencia, se puede reducir o eliminar tomando las siguientes medidas:
 - a. Limpie la puerta y las superficies selladoras del horno. (Vea Cuidados de Su Horno de Microondas que se encuentran en la página 45).
 - b. Ponga el radio, TV, etc. lo más lejos posible del horno de microondas.
 - c. Use una antena instalada adecuadamente para obtener una recepción de señal más fuerte.

Requerimientos de cableado

1. El horno debe estar en un circuito separado. Ningún otro aparato debe compartir el circuito con el horno. Si lo hace el fusible del circuito puede estallar, el bloqueador del circuito trabarse o la comida cocinarse más lento que en los tiempos recomendados en este manual.
2. El voltaje usado debe ser el mismo al especificado en el horno de microondas (120 V.). Usar un voltaje más alto es peligroso y puede resultar en fuego u otro accidente causando daño al horno. Usar un bajo voltaje dará como resultado una cocción más lenta. **PANASONIC** no se hace responsable por daños resultantes del uso del horno con otros voltajes que no sea el especificado.
3. El horno debe ser conectado en un enchufe a tierra de al menos 15 amp 120 volt, 60 Hz. Donde se encuentre un enchufe estándar de 2 entradas es responsabilidad y obligación del consumidor reemplazarlo por un enchufe a tierra de 3 entradas. 
4. Una conexión temporal con un adaptador de 2 entradas puede ser hecha donde los CODIGOS LOCALES LO PERMITAN. A menos que el tornillo de la cubierta del enchufe esté conectado a tierra mediante el cableado de la casa, atomillar el adaptador a la tapa del enchufe **NO** pondrá a tierra el horno. Si hay alguna duda de si el tornillo de la tapa del enchufe está a tierra haga que lo cheque un electricista. 

Siga Esta Precauciones de Seguridad Cuando Cocine en Su Horno

1) ENLATADO CASERO/ALIMENTOS DESHIDRATADOS/PEQUEÑAS CANTIDADES DE ALIMENTOS

- No use su horno para el enlatado casero o para calentar cualquier frasco cerrado. La presión aumentará y el frasco puede explotar. Su horno no puede mantener los alimentos a la temperatura apropiada de enlatado.
- Pequeñas cantidades de alimento o alimentos con bajo contenido de humedad se pueden secar, quemar o incendiarse.
- No seque alimentos, hierbas, frutas o vegetales en su horno.

IMPORTANTE

La cocción adecuada depende del tiempo designado y del peso de los alimentos. Si usa una porción menor de la recomendada y cocina por el tiempo para la porción recomendada, puede resultar un incendio. Si ocurre un incendio, ponga el horno en posición de apagado y manténgalo cerrado. Desconecte la energía eléctrica o desconecte la caja de fusibles o el panel de control.

2) PALOMITAS DE MAÍZ

Las palomitas de maíz deben prepararse en un recipiente para palomitas de maíz adecuado para horno de microondas. Palomitas de maíz para horno de microondas que se preparan en su propio paquete también están disponibles. Siga las instrucciones del fabricante de palomitas de maíz y use una marca adecuada para la potencia de su horno de microondas. Nunca deje desatendido el horno cuando prepare palomitas de maíz.

PRECAUCIÓN

Cuando use palomitas de maíz para microondas previamente empacado siga las instrucciones recomendadas en el paquete. Revise el peso del paquete antes de usar la tecla de palomitas de maíz. Prepare el horno para el peso del paquete de palomitas de maíz (vea página 38). Si no se siguen estas instrucciones, las palomitas de maíz pueden no reventar adecuadamente o pueden encenderse y causar un incendio.

3) FREIR CON MUCHA GRASA

- No trate de freír con mucha grasa en su horno de microondas. Cocinar aceites puede estallar en flamas y puede causar daño al horno y quizá acabar en quemaduras. Los utensillos de microondas pueden no ser útiles para soportar la temperatura del aceite caliente, y podrían romperse.

4) HUEVOS

- No caliente huevos en su cáscara en el horno de microondas. La presión subirá y el huevo explotará.

5) ALIMENTOS CON PIELS NO POROSAS

- Papas, manzanas, yemas de huevo, calabazas completas y salchichas son ejemplos de alimentos con pieles no porosas. Estos tipos de alimentos

deben ser perforados antes de cocinarlos en Microondas para evitar que estallen.

- Use papas frescas para hornear y cocínelas hasta que estén listas. Cocinar demasiado causa deshidratación y puede producir un incendio. Use los pesos recomendados o puede ocurrir un incendio.

6) LIQUIDOS

- Los líquidos calientes pueden hacer erupción si no se mezclan con el aire. No caliente líquidos en su horno de microondas sin agitarlos antes.

7) BANDEJA DE CRISTAL/UTENSILIOS DE COCINA/PAPEL ALUMINIO

- Los utensillos para cocinar se calientan durante la cocción en microondas. Use soportes para lo caliente, cuando saque los utensillos del horno o cuando quite tapas o cubiertas de envoltura de plástico de los utensillos de cocina, para evitar quemaduras.
- La bandeja de cristal se calentará durante la cocción. Debe permitirse que se enfríe antes de manejarla o antes de colocar productos de papel, tales como platos de papel o bolsas de palomitas de maíz para microondas, para cocinar.
- Cuando se use papel aluminio, brochetas, rejillas para calentar o utensillos hechos de metal en el horno, deje por lo menos 2,5 cm de espacio entre el material de metal y las paredes interiores del horno. Si arquea (chispea) quite el material de metal (brochetas etc.) y/o cambíelo a un contenedor no metálico.
- Platos con adornos metálicos no deben ser usados, ya que puede producirse arco eléctrico.

8) TOALLAS DE PAPEL/TELAS

- No use toallas de papel o telas que contengan fibras sintéticas en su tejido. La fibra sintética puede causar que la toalla se incendie.
- No use bolsas de papel o productos de papel reciclado en el horno de microondas.

9) BANDEJA DORADORA/BOLSAS PARA COCINAR EN HORNO

- Los bandeja doradora o asados son diseñados para cocinar en microondas solamente. Siempre siga las instrucciones dadas por el fabricante. No precaliente la bandeja doradora mas de 8 minutos.
- Si se usa una bolsa para cocinar para el Microondas, prepare de acuerdo a las instrucciones del paquete. No use sujetadores de alambre para cerrar la bolsa.

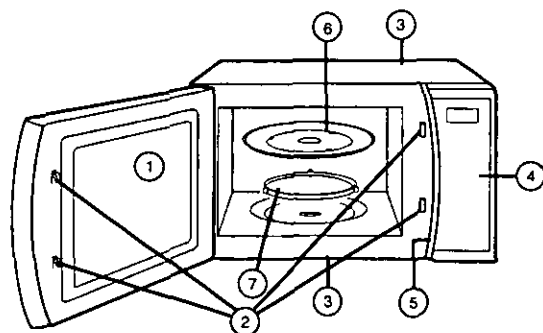
10) TERMÓMETROS

- No use termómetros convencionales para alimentos en su horno. Puede producir arco.

11) GUÍA DE USO GENERAL DEL HORNO/PUERTA DEL HORNO

- No use el horno por cualquier razón que no sea la preparación de alimentos.
- No deje sin atención el horno mientras esté en uso.

Diagrama de Características

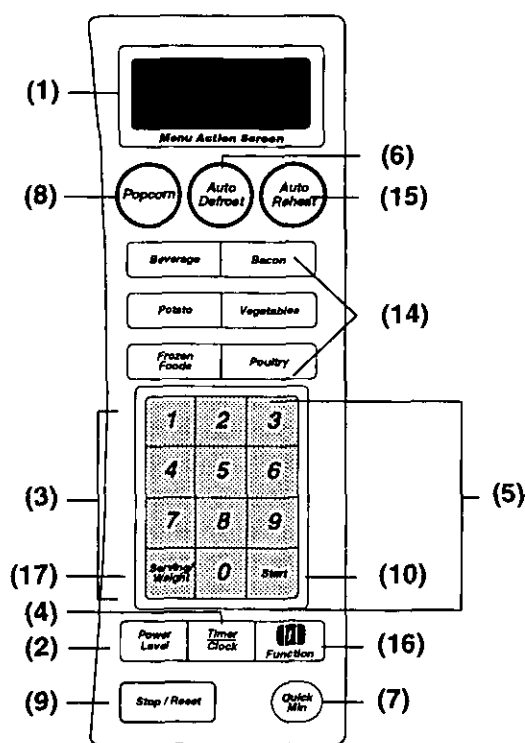
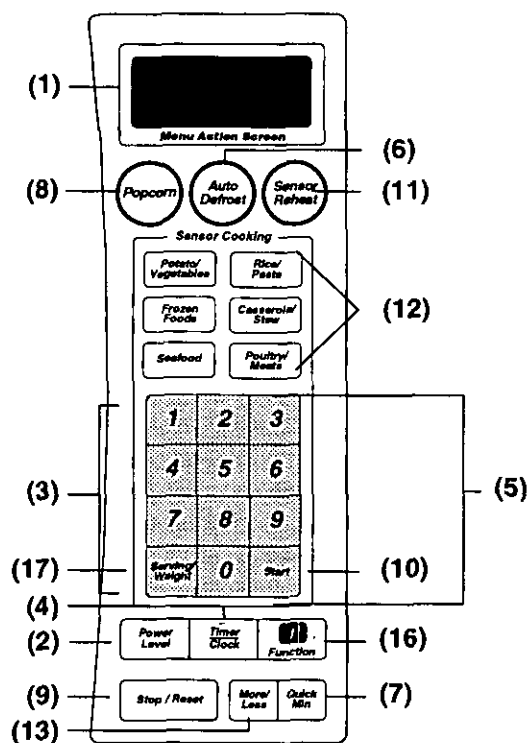


- ① Ventana del horno (on barrera de vapor - no remove)
- ② Sistema de seguridad de la puerta
- ③ Orificios de ventilación del horno
- ④ Panel de controles
- ⑤ Placa de indentificación
- ⑥ Bandeja de cristal
- ⑦ Anillo de rodillo

Panel de Controles

NN-S787/NN-S687/NN-S587

NN-E777/NN-E677/NN-E577



- (1) Ventanilla indicadora
- (2) Pulsador de potencia
- (3) Pulsadores de numéricos
- (4) Pulsador de tiempo de espera y reloj
- (5) Pulsador de Accion de Coccion
- (6) Pulsador de descongelación automático por peso
- (7) Pulsador de rápido en minutos
- (8) Pulsador de palomitas
- (9) Pulsador Parar/Cancelar

- (10) Pulsador Para Inicio
- (11) Sensor de recalentamiento automático
- (12) Sensor de coccion automático
- (13) Pulsador de Más/Menos
- (14) Pulsadores de Auto Coccion
- (15) Pulsador de Recalentamiento Automático
- (16) Pulsador de Funciones
- (17) Pulsador para porcions / peso

Funciones


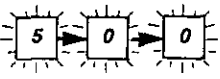

Los pulsadores le permiten escoger el sistema en cada característica.



1	<p>OPCIÓN DE IDIOMA La pantalla de el horno viene en inglés, francés y español. La pantalla aparece en inglés cuando usted conecta el horno.</p> <p>1 ENGLISH → La pantalla aparece en inglés. 2 FRANÇAIS → La pantalla aparece en francés. 3 ESPAÑOL → La pantalla aparece en español.</p>
2	<p>OPCIÓN Lb/Kg. El horno tiene medidas de peso métricas e imperiales. El horno estará en la medida de peso imperial cuando lo conecte.</p> <p>1 Lb. → El peso puede ser puesto en lb/oz. 2 Kg → El peso puede ser puesto en g/kg.</p>
3	<p>VELOCIDAD DE PALABRA La velocidad de las palabras en la pantalla pueden correr más rápido o más lento.</p> <p>1 RÁPIDO → Las palabras correrán rápido. 2 MEDIO → Las palabras correrán a su velocidad inicial. 3 LENTO → Las palabras correrán lento.</p>
4	<p>ACCIÓN DEL MENÚ ENCENDIDO/APAGADO La acción del menú en pantalla le ayuda a programar el horno indicando el siguiente paso a fomar por anticipado. Cuando usted se familiarize con su horno, esto puede ser apagado.</p> <p>1 ENCENDIDO → La guía aparecerá. 2 APAGADO → La guía no aparecerá.</p>
5	<p>SEGURO PARA NIÑOS ENCENDIDO/APAGADO El horno tiene la característica de seguro para niños para prevenir su uso por niños.</p> <p>1 ENCENDIDO → El seguro ha sido puesto y ninguna operación será aceptada. 2 APAGADO → El seguro ha sido cancelado.</p>
6	<p>SONIDO "BEEP" ENCENDIDO/APAGADO Si ustedes desea que el horno opere sin sonido "beep", puede ser eliminado.</p> <p>1 ENCENDIDO → El sonido "beep" reaparecerá. 2 APAGADO → El sonido "beep" no se escuchará.</p>
7	<p>SONIDO "BEEP" DE RECORDATORIO ENCENDIDO/APAGADO Este sonido "beep" es para recordarle que retire el alimento después de que se ha completado la cocción.</p> <p>1 ENCENDIDO → El sonido "beep" de recordatorio trabajará. 2 APAGADO → El sonido "beep" de recordatorio no trabajará.</p>
8	<p>HORARIO DE VERANO</p> <p>1 ENCENDIDO → Automáticamente ajusta el reloj una hora hacia adelante. 2 APAGADO → Retrasa el reloj a su hora original.</p>
9	<p>RELOJ ENCENDIDO/APAGADO El reloj puede apagarse.</p> <p>1 ENCENDIDO → El reloj reaparecerá. 2 APAGADO → El reloj desaparecerá. La hora del día no se perderá si el reloj desaparece de la pantalla.</p>
0	<p>MODO DE DEMOSTRACIÓN ENCENDIDO/APAGADO El modo de demostración está diseñado para su exhibición en tienda. En este modo, el horno puede ser demostrado sin poder o potencia.</p> <p>1 ENCENDIDO → El horno estará en modo de demostración. 2 APAGADO → El horno no estará en modo de demostración.</p>

Para Seleccionar Potencia y Tiempo

Ejem.: Nivel de potencia MEDIA por 5 minutos

1	 4 veces	• Seleccione el nivel de potencia.
2		• Seleccione el tiempo de cocción (hasta 99 min y 99 seg).
3		• Presione el pulsador START .

NOTA:

1. Al seleccionar el nivel de potencia ALTA en la primera etapa, no es necesario presionar el pulsador **POWER LEVEL**. Simplemente fije el tiempo de cocción presionando los pulsadores de Tiempo y **START**.
2. Para cocción en 2 o 3 etapas, repetir los pasos arriba citados, antes de apretar el pulsador **START**.
3. Pulsador **POWER LEVEL**.



Pulse	Nivel de Potencia	% Potencia
1 vez	ALTO	100%
2 veces	DESCONGELACION	30%
3 veces	MEDIANO-ALTO	70%
4 veces	MEDIO	55%
5 veces	MEDIANO-BAJO	30%
6 veces	BAJO	10%

Función Rápido en Minutos

Esta característica le permite ajustar el tiempo de cocción fácilmente en vez de usar los pulsadores numéricos o agregar tiempo de cocción extra.

Para seleccionar el tiempo de cocción:


Ejem.: Nivel de potencia ALTA por 1 minuto

1	 1 vez	• Seleccione el tiempo de cocción (hasta 10 min).
2		• Presione el pulsador START .

NOTA:

1. Se puede usar otro nivel de potencia, selecciónelos antes de ajustar el tiempo.
2. Después de haber ajustado el tiempo por medio del pulsador **Quick Min** no podrá usar los pulsadores numéricos o vice versa.

Para Agregar Tiempo Extra:

	• Oprima para agregar tiempo de cocción (hasta 10 min) durante el cocinado. ► El tiempo de cocinado cambia para incluir el tiempo extra y continúa la cuenta regresiva en la pantalla.
--	---

NOTA:



Usted puede añadir tiempo de cocción para todos los platillos con las funciones de poder y tiempo.

Pulsador de Palomitas de Maíz

Ejem.: Para recalentar 99 g (3,5 oz.) de palomitas de maíz en bolsas especiales para microondas


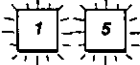

NOTA:

Ponga la bolsa en el interior del horno de acuerdo con las instrucciones del fabricante.

1	 1 vez	• Seleccione el peso que se indica en la bolsa de palomitas.								
		<table border="1"> <thead> <tr> <th>Presionar</th> <th>Peso</th> </tr> </thead> <tbody> <tr> <td>1 vez</td> <td>99 g (3,5 oz.)</td> </tr> <tr> <td>2 veces</td> <td>90 g (3,0 oz.)</td> </tr> <tr> <td>3 veces</td> <td>50 g (1,75 oz.)</td> </tr> </tbody> </table>	Presionar	Peso	1 vez	99 g (3,5 oz.)	2 veces	90 g (3,0 oz.)	3 veces	50 g (1,75 oz.)
Presionar	Peso									
1 vez	99 g (3,5 oz.)									
2 veces	90 g (3,0 oz.)									
3 veces	50 g (1,75 oz.)									
2		• Presione. ► El tiempo de cocinado aparece y empieza la cuenta regresiva.								

Descongelación Automática

Ejem.: Para descongelar 1.5 kg. de carne

1		• Fije el peso.
2		
3		• Presione el pulsador START .

NOTA:

La forma y el tamaño de los alimentos determinará el peso máximo que el horno puede acomodar. El peso máximo para carnes es de 1.8 kg (4 lb), aves 2.7 kg (6 lb) y pescados y mariscos 1.4 kg (3 lb).

Consejos Para Descongelar

Preparando alimentos para congelar:

1. Congele carne aves y pescado en paquetes de 1 o 2 rebanadas. Para ayudar a separar las rebanadas, coloque papel encerado entre rebanadas.
2. Envuelva en plástico resistente, bolsas o papel para congelar.
3. Remueva todo el aire posible.
4. La envoltura debe quedar justa.
5. Selle bien.




Tabla de Conversión

Siga esta tabla para convertir décimas de libra en onzas. Si un trozo de carne pesa 1.9 libras, programe 1 libra 14 onzas.

Décimas por una Libra	Onzas
0.0	0
0.1	1 - 2
0.2	3 - 4
0.3	5
0.4	6 - 7
0.5	8
0.6	9 - 10
0.7	11 - 12
0.8	13
0.9	14 - 15

Para Ajustar el Reloj

Ejem.: Para fijar 11:25 am o pm

1		• Presione el pulsador CLOCK dos veces. ▶ Los dos puntos parpadearán.
2		• Fije la hora correcta del día.
3		• Presione el pulsador CLOCK una vez. ▶ Los dos puntos dejarán de parpadear. La hora está ingresada y ubicada en las ventanilla indicadora.

Técnicas Para Descongelar




1. Remueva la envoltura para prevenir retener vapor y jugo. El jugo del alimento se calentará y puede causar que la superficie o el fondo del alimento se cueza; coloque el alimento en la rejilla de el horno de microondas y deje drenar el liquido durante el descongelado .
2. Coloque la carne en un plato de tamaño apropiado. El tocino puede ser descongelado en su envoltura original.
3. Coloque la carne blanda y la pechuga hacia abajo en un plato sobre la rejilla para descongelar del horno de microondas.
4. Coloque pequeñas piezas como trozos de carne, piezas de pollo, camarones, escalopas o pescado en un plato sobre la rejilla para descongelar del horno de microondas.
5. Carnes grandes y aves enteras pueden quedar congeladas en el centro después de descongelar, deje reposar envueltos en plástico en el refrigerador (ver tabla abajo).
6. Pescados y mariscos deben quedar ligeramente congelados después de descongelar, deje reposar y remoje en agua fría por 2 o 3 minutos.
7. Piezas congeladas en rebanadas deben remojarse separadamente o dejar reposar por más tiempo.

ALIMENTO	TIEMPO DE DESCONGELADO	DURANTE EL DESCONGELADO
Pescado y mariscos (arriba de 3 lb (1.5 kg)) Cangrejo Steaks de pescado Filetes de pescado Escalopas de pescado Camarón mediano Pescado entero	12 a 14 8 a 10 6 a 8 14 a 16 8 a 10 10 a 12	Rompa Voltee Voltee / Arregle Rompa / Remueva las piezas congeladas Rompa / Remueva las piezas congeladas Voltee
Carne Asado 2½ - 4 lb. (1.2 - 2 kg) Chuletas / Steak Costillas / T-bone Hígado (rebanadas finas) Puerco	8 a 10 8 a 10 8 a 10 8 a 10 4 a 6	Voltee / cubra las orillas y la superficie congelada Separa / Voltee / Arregle Voltee / Cubra Deje escurrir / Voltee / Separe las piezas Voltee
Aves Pollo entero (más de 3 lb. (1.5 kg)) Chuletas Piezas Codorniz Pechuga de pavo	6 a 10 6 a 8 8 a 10 8 a 12 8 a 12	Voltee 2 o 3 veces / Cubra partes descongeladas Voltee Separe Voltee / Arregle Voltee 2 or 3 veces

Auto Cocción

Utilizando los programas de autococción

Estos son probados y con tiempos pre-establecidos (asados en el poder de este horno) para la cantidad de comida enlistada en la tabla de abajo. Localmente, las fluctuaciones de potencia y los gustos personales no han sido tomados en cuenta. Si usted prefiere su comida cocinada de diferente forma, utilice la potencia y el tiempo con los métodos mostrados en la página 21.



1.		Seleccione la categoría de comida deseada (ver tabla abajo)
2.		Presione el pulsador de porciones/peso (Serving/Weight) hasta que la cantidad deseada aparezca en la pantalla.
3.		Presione el pulsador de inicio (Start). El tiempo de cocción aparecerá en la pantalla y contará.

CODIGOS DE AUTO COCCIÓN

PULSADOR	CATEGORIA	PORCION / PESO	INDICACIONES
BEBIDA	CAFÉ / TE	1-2 TAZAS (6-7 oz)	NO caliente líquidos en su Horno de Microondas sin antes agitar. Los líquidos calientes pueden ebulle si no se mezclan con aire.
	SOPA	1-2 PORCIONES (8 oz)	Utilice sopas a base de agua.
TOCINO		2,3,4,6 rebanadas	Coloque las rebanadas en un recipiente para hornos de microondas y cubra con toallas de papel.
PAPAS		1-4 PAPAS (6-8 oz)	Perfore la cascara con un tenedor, acomode en círculo.
VEGETALES	VEGETALES FRESCOS	4, 8, 12, 16 oz (110,225,340,450 g)	Cubra con tapa o papel autoadherente. Agregue un poco de agua. Revuelva ocasionalmente durante la cocción. Deje reposar, cubierto de 3-5 minutos antes de servir.
	VEGETALES CONGELADAS	5, 10, 16 oz (150, 300, 450 g)	Siga las instrucciones del paquete o ponga en un plato, agregue agua y cubra (con papel autoadherente).
COMIDAS CONGELADAS	PIZZA CONGELADAS	4, 8 oz (110, 225 g)	Siga las instrucciones del paquete. Ponga la pizza en un recipiente especial.
	ENTRADAS CONGELADAS	8,10,20,32 oz (225,300,600,900 g)	Siga las instrucciones del paquete para cubrir o remover las cubiertas. Para mejores resultados no utilice comida congelada empacada en recipientes de aluminio a la mitad de la cocción, reacomode o agite.
	COMIDAS FUERTAS	11, 15 oz (300, 430 g)	
AVES	PIEZAS DE POLLO	6,12,18,24 (170,340,500,680 g)	Coloque las piezas con la piel para arriba. Cubra con papel autoadherible.
	POLLO ENTERIO	3.5, 4.0, 5.0, 5.5 lb (1.5, 1.8, 2.2, 2.5 kg)	Coloque la pechuga para abajo. Cubra con papel autoadherible. Coloque la pechuga para arriba a la mitad de la cocción.

Sensor de Recalentamiento/Cocción Automática

Recalentamiento:

1 	• Presione el pulsador de Sensor Reheat.
2 	• Presione el pulsador START .




Para obtener mejores resultados del Sensor de Recalentamiento, siga estas recomendaciones:

1. Todos los alimentos deben ser cocidos previamente y deben estar a temperatura o temperatura de refrigerador.
2. Los alimentos que pesen menos de 100 g y más de 700 g se deben recalentar sólo por tiempo y potencia.

NO HACER

1. Recalentar pan y productos de pastelería. Use el tiempo y potencia manual.
2. Recalentar alimentos crudos o sin cocer.
3. Usar la función de recalentamiento si el interior del horno está caliente.
4. Usar la función de recalentamiento para bebidas.
5. Usar la función de recalentamiento para alimentos congelados.

Cocción:

1 Ej. 	• Presione el pulsador de la categoría deseada hasta que aparezca el número e ítem deseado en la ventanilla indicadora.
2 	<i>(Opcional)</i>
3 	• Presione el pulsador START .

El sistema de SENSOR AUTOMATICO ("AUTO SENSOR") Trabaja detectando el vapor acumulado que despiden los alimentos en la cavidad del horno. Usted podrá cocinar y recalentar muchos de sus alimentos favoritos sin tener que seleccionar temperaturas y niveles de potencia.

ANTES de cocinar/recalentar:

(para mejores resultados por sensor, verifique lo siguiente)

1. La temperatura ambiente que rodea al horno debe ser menor de 35°C (95°F).
2. El peso de los alimentos no deberá ser menor a 100 g (4 onzas) aprox.
3. El plato giratorio de cristal y el contenedor que se va a utilizar deben estar secos.
4. Cubra los alimentos por completo con papel plástico procurando que este no quede muy adherido, o bien, colocarlo en una cacerola con tapa.

DURANTE la cocción/recalentado:

Mientras la palabra "AUTO" se muestre en la ventanilla indicadora, no deberá abrirse la puerta del horno por más de 1 minuto, esto causaría resultados inadecuados en la cocción.

El tiempo restante de cocción aparecerá inmediatamente en la ventanilla indicadora y comenzará a contar en forma descendente. El horno puede ser abierto durante este tiempo restante para voltear, batir o añadir ingredientes.

DESPUES de la cocción/recalentado:

Todos los alimentos deben estar cubiertos durante un tiempo de 3 a 5 minutos.

Control de grado de cocción mas/menos (more/less):

Las preferencias en el grado de cocción de los alimentos varían en cada individuo, con este pulsador usted podrá decidir qué tipo de grado de cocción prefiere en sus alimentos.

Usando este pulsador el Sensor automatico puede ser ajustado para cocinar el alimento por más o menos tiempo. Si usted está satisfecho con los resultados de cocción del programa "auto sensor", no necesitará usar el control más/menos.

Un toque: más cocido con indicador "MAS"

Dos toques: menos cocido con indicador "MENOS"

Tres toques: cocido inicial


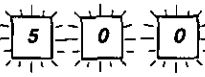

Sensor de Cocción Automática

	CATEGORÍA	PESO	INSTRUCCIONES
Potato/ Vegetables	1 x Papas	1 - 4 Papas 170 - 230 g (6 - 8 oz.) cada una	Abra la piel varias veces y coloque en un molde a prueba de microondas. NO cubra. De la vuelta después del sonido.
	2 x Vegetales Frescos	230-900 g (½ - 2 lb) peso antes de pelar, rebanar, etc.	Agregue agua. Cubra con la tapa o cubierta de plástico. Revuelva o reacomode después del sonido.
	3 x Vegetales Congelados	280 - 800 g (10 - 28 oz.)	Agregue 2 cucharadas soperas de agua. No cocine con mantequilla o salsa. Cubra con la tapa o cubierta de plástico. Revuelva o reacomode después del sonido.
Rice/Pasta	1 x Arroz	Arroz . . . Agua ½ taza . . . 1 taza 1 taza . . . 2 tazas 1½ taza . . . 3 tazas 2 tazas . . . 3½ tazas	Ponga arroz y agua caliente con 1/4 de cucharadita de sal. Cubra con la cubierta de plástico. Después del "beep", bata muchas veces. Después de cocinar bata y deje reposar de 5 a 10 minutos.
	2 x Pasta	120 - 230 g (4 - 8 oz.)	Ponga 1 1/2 cuartos de agua, pasta, 1 cucharada de aceite y 1 cucharadita de sal en una cacerola de 4 qt. Cubra. Después del "beep" bata ocasionalmente.
Frozen Foods	1 x Entradas Congeladas	200 - 900 g (7 - 32 oz.)	No use alimentos congelados en charolas selladas. Siga las instrucciones del fabricante para cubrir. Revuelva, bañe con la salsa o con el jugo después del sonido.
	2 x Platos Fuertes Congelados	260 - 510 g (9 - 18 oz.)	No use alimentos congelados en charolas selladas. Siga las instrucciones del fabricante para cubrir. Revuelva, si es posible, después del sonido.
Casserole/ Stew	1 x Plato al Homo		Use la cantidad apropiada de liquido. Cubra con el la tapa de la cacerola. Revuelva ocasionalmente después del sonico
	2 x Guisados		Use la cantidad apropiada de liquido. Cubra con la tapa de la cacerola. Agite ocasionalmente o arregle después del "beep".
Seafood	1 x Filete de Pescado	230 - 680 g (½ - 1½ lb.)	Acomode en una sola capa en el molde. Cubra con tapa o cubierta de plástico. Reacomode después del sonido.
	2 x Marisco	230 - 680 g (½ - 1½ lb.)	Acomode en una sola capa en el molde. Cubra con tapa o cubierta de plástico. Revuelva los camarones u ostras después del sonido.
Poultry/Meat	1 x Tocino	2 - 6 rebanadas	Pon las rebanadas en un plato. Tapa con toallas de papel.
	2 x Piezas de Pollo	230 g - 1 kg (½ - 2 lb.)	Coloque el lado de la piel hacia arriba. Cúbralo con cubierta de plástico. Después del sonido, reacomódelo.
	3 x Pollo Entero	hasta 3 kg (6 lb.)	Coloque el lado de la pechuga hacia abajo. Cúbralo con cubierta de plástico. Voltee el lado de la pechuga hacia arriba después del sonido.
	4 x Cerdo	1 - 2 kg. (2 - 4 lb)	Coloque la parte de grasa hacia arriba. Cúbralo con cubierta de plástico. Voltéelo, después del sonido.
	5 x Res Termino Medio	(1 - 2 kg) (2 - 4 lb.)	Coloque la parte de grasa hacia arriba. Cúbralo con cubierta de plástico.

Temporizador (Timer)


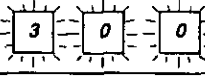

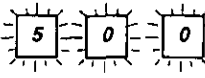

Para usar como temporizador en la cocina:

Ejem.: Para contar 5 minutos

1.		• Presione el pulsador <i>Timer</i> una vez.
2.		• Indique la cantidad de tiempo. (hasta 99 min y 99 segundos)
3.		• Presione el pulsador <i>Start</i> . ► El tiempo comenzará a contar en forma descendente sin que el horno este funcionando.


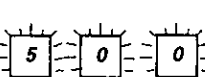

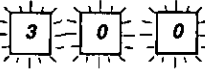

Para fijar un tiempo de espera o tiempo de reposo:

Ejem.: Después de la cocción dejar reposar el alimento durante 5 minutos

1. Ej.		• Seleccione el programa de cocción (ver p.51 para instrucciones).
		
2.		• Presione el pulsador de <i>Timer</i> una vez.
3.		• Indique la cantidad de tiempo. (hasta 99 min y 99 segundos)
4.		• Presione el pulsador de <i>Start</i> . ► Después de la cocción el tiempo de reposo empezará a contar en forma descendente sin que el horno este funcionando.

Para programar un comienzo tardío:

Ejem.: Para empezar a cocinar 5 minutos después

1.		• Presione el pulsador <i>Timer</i> una vez.
2.		• Indique la cantidad de tiempo que tardará en empezar el programa. (hasta 99 min y 99 seg)
3. Ej.	 ↓ 	• Seleccione el programa de cocción. (ver p. 49 para instrucciones)
4.		• Presione el pulsador de <i>Start</i> . ► Cuando el tiempo demorado comience la cuenta regresiva y este haya finalizado, la cocción iniciará.

Notas:

1. Si la puerta del horno esta abierta durante el tiempo de espera o cuando se usa como temporizador, el tiempo que se indica en la ventanilla continuará contando en forma regresiva.
2. El comienzo tardío no puede ser programado antes de ninguna función automática. Esto es para prevenir que el inicio de la temperatura de los alimentos se incremente antes de la descongelacio o inicio de la cocción. Un cambio en el inicio de la temperatura podría causar resultados inadecuados.

Cuidados de Su Horno de Microondas

ANTES DE LIMPIAR: Apague el horno y desconecte el cable de alimentación para prevenir un encendido accidental.

Interior del horno: Limpie su horno con un paño húmedo. Puede utilizar un detergente suave si el horno está muy sucio. El uso de limpiadores abrasivos no es recomendable.

Puerta del horno: Si el vapor se acumula en el interior o alrededor de la puerta del horno, limpie con un paño suave.

Esto puede suceder cuando el horno se opera en condiciones demasiado húmedas y no indica mal funcionamiento de la unidad.

Panel de controles: Limpie su panel con un paño suave, no use detergentes fuertes ni abrasivos.

Plato giratorio de cristal: Remueva el plato de cristal. Cuando este frío y lave con agua tibia y jabonosa o en su lavadora de platos.

El anillo giratorio: Limpie el soporte del plato giratorio que se encuentra en el horno con agua jabonosa. El anillo giratorio debe ser limpiado en agua jabonosa o en su lavadora de platos. Estas partes deben estar limpias para evitar un excesivo ruido.

DESPUES DE LIMPIAR: Este seguro de colocar el anillo giratorio y el plato de cristal en la posición correcta y presione Stop/Reset para limpiar la ventanilla indicadora.

Antes de Acudir a Servicio

Todas estas cosas son normales:

Mi horno de micro ondas causa interferencia con mi televisor.

En algunos radios y televisores puede ocurrir interferencia cuando usted cocine con su horno de micro ondas. Esta interferencia es similar a la interferencia causada por pequeños aparatos eléctricos como batidoras, aspiradoras, secadoras de aire, esto no indica ningún problema.

La luz del horno se atenúa.

Cuando se está cocinando con una temperatura diferente a temperatura alta (HIGH) el horno tiene que recorrer un ciclo para obtener niveles de potencia más bajos. La luz del horno se atenúa y podrá oír ruidos de "click" cuando el horno realiza su ciclo.

Se acumula vapor en la puerta del horno y aire caliente sale de las rejillas de ventilación.

Durante la cocción los alimentos despiden vapor. La mayoría de este vapor es removido por el aire que circula en la cavidad del horno, sin embargo, algo de vapor se condensará en las superficies frías tales como la puerta del horno. Esto es normal.

Accidentalmente encendió su horno de micro ondas sin ningún alimento dentro.

Operar el horno vacío por un corto tiempo no dañará el horno sin embargo no lo recomendamos.

PROBLEMA

POSIBLE CAUSA

SOLUCION

El horno no enciende.



¿Esta el horno conectado en forma segura?

Remueva la clavija de contacto de la toma de corriente. Espere 10 seg. Vuelva a conectar.

El circuito general de luz o el fusible están fuera de servicio o tienen algún problema interno.

Encienda de nuevo su circuito general de luz (brake) o reemplace el fusible.

Hay un problema en la toma de corriente.

Conecte otro aparato eléctrico para verificar su toma de corriente.

El horno no acepta mi programa.



La puerta del horno no está bien cerrada.

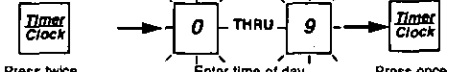
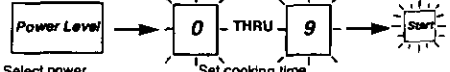
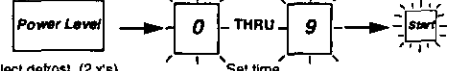
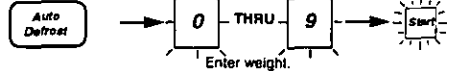
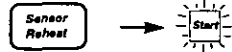




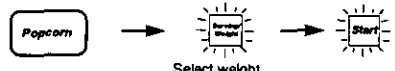
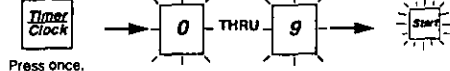
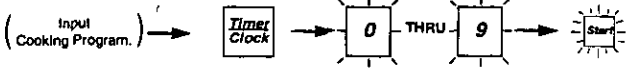
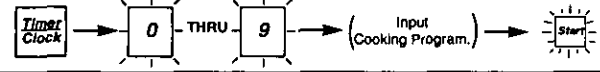
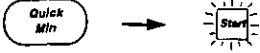
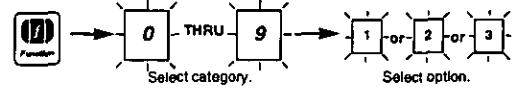
Cierre la puerta firmemente.

Otro programa se encuentra registrado en su horno.

Presione Stop/Reset (parar/borrar) para cancelar el programa anterior y programe de nuevo.

Si al parecer el problema se encuentra en su horno, consulte al centro de servicio más cercano.

Quick Guide to Operation

Feature	How to Operate
To Set Clock (☛ page 10)	 <p>Press twice. Enter time of day. Press once.</p>
Power and Time Setting (☛ page 10)	 <p>Select power. Set cooking time.</p>
To Defrost using Manual Defrost (☛ page 10)	 <p>Select defrost. (2 x's) Set time.</p>
"Auto Defrost" (☛ page 11)	 <p>Enter weight.</p>
To Reheat using "Sensor Reheat" (☛ page 13)	
To Cook using "Sensor Cooking" (☛ page 13 - 14)	<p>e.g.  →  → </p> <p>Select desired category.</p>
To Cook using "Auto cook" (☛ page 15)	 <p>Select desired category. Select weight.</p>
To Cook using "Popcorn" (☛ page 16)	 <p>Select weight.</p>
To use as a Timer (☛ page 17)	 <p>Press once.</p>
To use to set Stand Time (☛ page 17)	
To set Delay Start (☛ page 17)	
To Cook using "Quick Min" (☛ page 16)	 <p>Tap desired number of times (up to 10 minutes).</p>
To use "Function Pad" (☛ page 8-9)	 <p>Select category. Select option.</p>

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