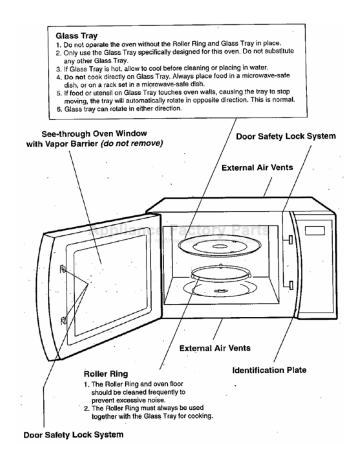


PANASONIC NN-E777 Owner's Manual

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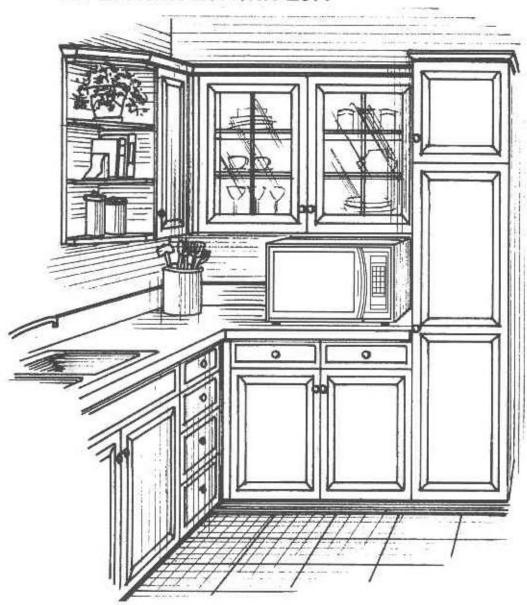


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Operating Instructions

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	NN-S687/NN-E677	NN-S587/NN-E577
	1.5 cu. ft.	1.3 cu. ft.	1.0 cu. ft.
Power consumption: Output: Outside Dimensions: (H x W x D) Oven Cavity Dimensions: (H x W x D) Operating Frequency: Uncrated Weight:	13.8 Amps, 1580 W	13.5 Amps, 1550 W	13.5 Amps, 1550 W
	1,000 W	1,000 W	1,000 W
	14" x 23%" x 16%"	12" x 21%" x 16%"	12" x 20" x 14%;"
	356 x 595 x 415mm	306 x 555 x 425mm	306 x 510 x 360mm
	10%" x 16%" x 15%"	8%" x 14%" x 15%"	9" x 13%" x 13%;"
	259 x 415 x 385mm	220 x 375 x 395mm	229 x 353 x 338mm
	2,450 MHz	2,450 MHz	2,450 MHz
	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	Model No.
opening. You should note the model number and the serial number of this oven in the space	Serial No
provided and retain this book as a permanent record of your purchase for future reference.	Date of Purchase

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IMPORTANT SAFETY INSTRUCTIONS

Your microwave oven is a cooking device and you should use as much care as you use with a stove or any other cooking device.

When using this electric appliance, basic safety precautions should be followed, including the following:

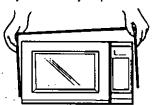
WARNING—To reduce the risk of burns, electric shock, fire, injury to persons or exposure to excessive microwave energy:

- 1. Read all instructions before using the appliance.
- Read and follow the specific "PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY," found on back of the front cover.
- This appliance must be grounded. Connect only to properly grounded outlet. See "GROUNDING INSTRUCTIONS" found on page 3.
- 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.
- 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.
- 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.
- As with any appliance, close supervision is necessary when used by children.
- 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.
- 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.
- Some products such as whole eggs and sealed containers—for example, closed glass jars—may explode and should not be heated in this oven.
- 16. To reduce the risk of fire in the oven cavity:
 - (a) Do not overcook food. Carefully attend appliance if paper, plastic, or other combustible materials are placed inside the oven to facilitate cooking.
 - (b) Remove wire twist-ties from paper or plastic bags before placing bag in oven.
 - (c) If materials inside the oven should ignite, keep oven door closed, turn oven off, and disconnect the power cord, or shut off power at the fuse or circuit breaker panel.

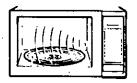
(d) Do not use the cavity for storage purposes. Do not leave paper products, cooking utensils, or food in the cavity when not in use.

General Use

 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.



 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.



- 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.
- Do NOT dry clothes, newspapers or other materials in oven. They may catch fire.
- 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.
- Do NOT use newspapers or paper bags for cooking. Fire can result.
- Do NOT hit or strike control panel. Damage to controls may occur. Fire can result.
- 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.
- 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.
 - a. 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.
 - b. 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

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.
- 3. If a long cord or extension cord is used, (1) the marked electrical rating of the cord set or extension cord should be at least as great as the electrical rating of the appliance, (2) the extension cord must be a grounding-type 3-wire cord, and (3) the longer cord should be arranged so that it will not drape over the countertop or tabletop where it can be pulled on by children or tripped over accidentally.

Wiring Requirements

- 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.
- 2. 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.
- 3. The oven must be plugged into at least a 20 AMP 120 VOLT, 60 Hz GROUNDED OUTLET.

Where a standard two-prong outlet is encountered, it is the personal responsibility and obligation of the consumer to have it replaced with a properly grounded three-prong outlet.

4. A TEMPORARY CONNECTION with a two-prong adapter may be made where LOCAL CODES PERMIT it. Unless the cover screw is grounded through the house wiring, attaching the adapter grounding plate to the cover screw will not ground the oven. If there is any doubt that the cover screw is grounded, have it checked by an

Radio Interference

electrician.

- Operation of the microwave oven may cause interference to your radio, TV or similar equipment.
- 2. When there is interference, it may be reduced or eliminated by taking the following measures:
 - a. Clean door and sealing surfaces of the oven. (See Care of Your Microwave Oven.)
 - b. 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.

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 popcom 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

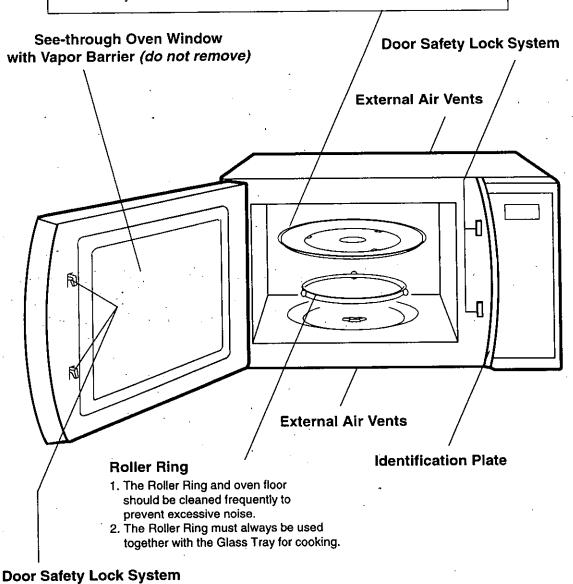
ITEM	MICROWAVE	COMMENTS
Alternatives Forth	Yes	Small strips of foil can be molded around thin
Aluminum Foil	for	parts of meat or poultry to prevent overcooking.
	Shielding	Arcing can occur if foil is too close to oven wall
	only	or if too much foil is used.
Browning Dish	Yes	Browning dishes are designed 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		Check manufacturers' use and care directions for
Microwave-Safe only	Yes	suitability for microwave heating. Some dinnerware
	1 63	may state on the back of the dish.
		"Oven-Microwave Proof."
Disposable polyester	Yes	Some frozen foods are packaged in these dishes.
Paperboard Dishes	i res	Can be purchased in grocery stores.
Fast Food Carton	No	
with Metal Handle	No	May cause arcing.
Frozen Dinner Tray		Frozen dinners may be heated in foil tray, if tray is
Metal	Yes	less than %-inch (2 cm) high. Place foil tray in center of
·		oven. Leave at least 1-inch (2.5 cm) space between foil
Microwave-safe	Yes	tray and oven walls. Heat only 1 foil tray in the oven
		at time. For containers more than %-inch (2 cm) deep,
		remove food and place in a similar size microwave-
		safe container.
Glass Jars	Yes	Remove lid. Heat food until just warm. Most glass
		jars are not heat resistant.
Glassware	"	
Heat Resistant Oven	V	I dead for material and the same of
Glassware and	Yes	Ideal for microwave cooking and browning.
Ceramic, only		
Metal Twist Ties	No	They may cause arcing which could cause a fire
Metal Twist Hes	I NO	in the oven.
Oven Cooking Bag		Follow manufacturers' directions. Close bag with
		the nylon tie provided, a strip cut from the end of
	Yes	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	V	Use to warm cooked foods, and to cook foods that
•	Yes	require short cooking times such as hot dogs.
Paper Towels & Napkins	Yes	Use to warm rolls and sandwiches by microwave.
Plastic		Should be labeled, "Suitable for microwave heating."
Microwave-Safe only	Yes	Check manufacturers' directions for recommended
Cookware and	. 55	uses. Some microwave-safe plastic dishes are not suitable
Storage Dishes		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	
Cautt, TTIONOL, TTOOU	162	Use only for short term reheating.
Thermometers		Use to bring foods to a low serving temperature.
	V _{oo}	Una anhandana anta arra de la companio della compan
Microwave-safe only Conventional	Yes	Use only microwave-safe meat and candy thermometers.
	No	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

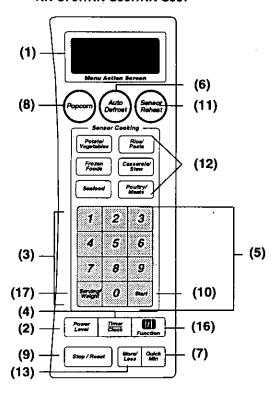
Glass Tray

- 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.
- 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.

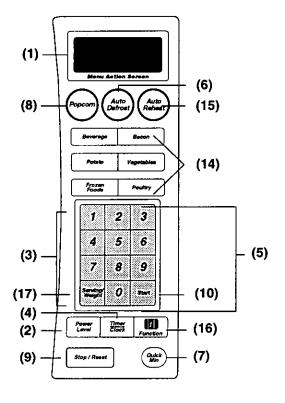


Control Panels

NN-S787/NN-S687/NN-S587



NN-E777/NN-E677/NN-E577



- 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 colon 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.

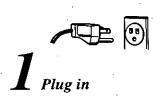
- (11) Sensor Reheat Pad (*page 18)
- (12) Sensor Cooking Pads (*page 18-19)
- (13) More/Less Pad (page 18)

 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)

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.

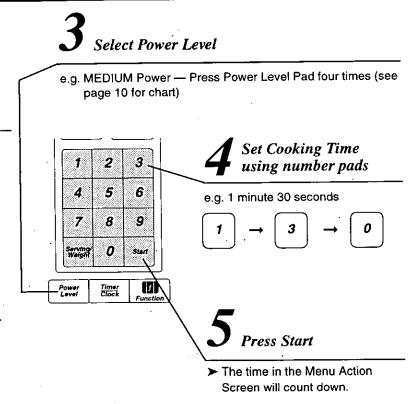
Let's Start to Use Your Oven!



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

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.



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) Function	Press: FUNCTION. Menu Action Message is "Select Function 0 through 9, 1LANGUAGE 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"	
Select 1 or 2 off Press: Either number. Your selection is now part of the operating system can change it any time.		
Continue until you have completed your selections.	completed your	

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	LANGUAGE CHOICE The oven has English, French and Spanish display. The display appears in English when you plug-in. 1 ENGLISH → Display appears in English. 2 FRANCAIS → Display appears in French. 3 ESPANOL → Display appears in Spanish.
-	2	Lb/KG CHOICE The oven has both imperial and metric weight measurements. The oven displays the weight in imperial when you plug it in. 1 Lb → Weight can be set in Ib/oz. 2 KG → Weight can be set in g/kg.
_	<u></u>	WORD SPEED The speed of word scrolling in the display window can be quickened or slowed down. 1 QUICK → Words scroll quickly. 2 MEDIUM → Scrolling speed reverts to initial setting. 3 SLOW → Words scroll slowly.
 	4	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. 1 ON → Prompting Guide will reappear. 2 OFF → Prompting Guide will not appear.
	5	CHILD LOCK ON/OFF The oven has Child Safety Lock feature which prevents use by children. 1 ON → Child Lock has been set and operation will not be accepted. 2 OFF → Child Lock has been cancelled.
 	6	BEEP ON/OFF If you wish to have the oven operate with no beep, it can be eliminated. 1 ON → Beep sound will activate. 2 OFF → Beep sound will not be heard.
-	7	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. 1 ON → Reminder beep will work. 2 OFF → Reminder beep will not work.
-	8	DAYLIGHT SAVING ON/OFF 1 ON → Time of day will advance one hour. 2 OFF → Time of day revert to original setting.
	<i>9</i> -	CLOCK ON/OFF Clock display can be turned off. 1 ON → Clock display will appear in the display window. 2 OFF → Clock display will not appear in the display window. Time of day will not be lost while the display is off.
	0	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. 1 ON → The oven will be in demo mode. 2 OFF → The oven will be out of demo mode.

Power & Time Setting

I Select Power Level

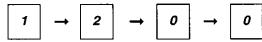
Power	Timer	(f)		
Level	Clock	Function		

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

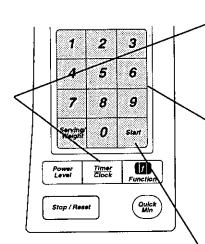
1. <u>Timer</u> Clock	PRESS twice for CLOCK. MENU ACTION MESSAGE is "SET TIME : ". Number pad flashes.
2. SET TIME OF DAY (ex. 1:30) 1 : 3 0	MENU ACTION MESSAGE is " 1:30 PRESS CLOCK PAD".
3. <u>Timer</u> Clock	Press once. Menu Action Screen displays time of day (clock is a 12 hour clock).

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

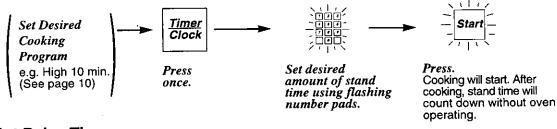
1 5 0 0

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

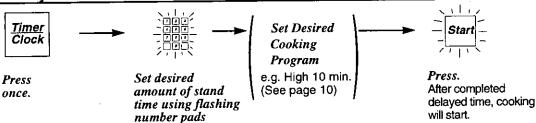
3 Press Start

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:

- 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 been 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

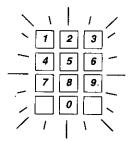


MENU ACTION MESSAGE is

"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.



$oldsymbol{2}$ Weight of Frozen Food

Enter weight using number pads.

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

or metric
2 8 2.5 kg
lb. oz. 2 5



$oldsymbol{3}_{ extit{START Flashes}}$

After weight has been entered, Start flashes.

Start

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:

- 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).
- 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).
- 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 DEFR Stand Time	OSTING Rinse
Fish and Seafood [up to 3 lb. (1.5 kg)]				NO
Crabmeat	12 to 14	Break apart		NO
Fish Steaks	6 to 10	Turn over		
Fish Fillets	6 to 8	Turn over/Rearrange	5 min.	
Sea Scallops	14 to 16	Break apart/Remove defrosted pieces		
Shrimp medium	8 to 10	Break apart/Remove defrosted pieces	ļ	YES
Whole fish	10 to 12	Turn over		
Meat Ground Meat	8 to 10	Turn over/Remove defrosted portion/Shield edges	10 min.	
Roasts [2½ - 4 lb. (1.2 - 2 kg)]	8 to 12	Turn over/Shield ends and defrosted surface	30 min. in refrig	•
Chops/Steak	8 to 10	Separate/Turn over/Rearrange		ı
Ribs/T-bone	8 to 10	Turn over/Shield		NO
Stew Meat	10 to 12	Break apart/Shield	5 min.	
Liver (thin sliced)	8 to 10	Drain liquid/Turn over/Separate pieces		
Bacon	4 to 6	Turn over		
Poultry Chicken, Whole [up to 3 lb. (1.5 kg)]	6 to 10	Turn over 2 or 3 times/Shield defrosted parts	20 min. in refrig	YES
Cutlets	6 to 8	Turn over	5 min.	
Pieces	8 to 10	Separate	10 min.	NO
Cornish Hens	8 to 12	Turn over/Rearrange	10 min.	
Turkey Breast [5 - 6 lbs. (2.5 - 3 kg)]	8 to 12	Turn over 2 to 3 times	20 min. in refrig	YES

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.	Vegetables	Press
2.	serving) select 8 oz.	Press the SERVING/WEIGHT pad until the desired quantity appears on the screen.
3.	Start	Press the <i>START</i> 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	DO NOT heat liquids in your microwave oven without stirring first. Heated liquids can erupt
		(6 - 7 oz each)	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,
	FROZEN DINNER	11, 16 oz (300,430 g)	rearrange or stir.
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:

- Use prepackaged room temperature microwave popcorn. Read manufacturers' instructions.
- Place bag in oven according to manufacturers' directions.
- 3. Pop only one bag at a time.
- After popping, open bag carefully, popcorn and steam are extremely hot.
- 5. Do not reheat unpopped kernels or reuse bag.
- 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:



Start

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

Foods	Number of	Serving	Starting
	Servings	Size	Temp.
Plate of Food Meat, Poultry Casseroles Side Dishes Soup, Sauces, Gravy	1 1 - 4 1 - 2 1 - 4	12 - 16 oz. 4 - 6 oz. 8 oz. 4 - 6 oz. 6 - 8 oz.	Refrig. Refrig. Refrig. or Room 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	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, % cup	HIGH	1 - 3	Place in a pie plate or bowl. Stir every 30 seconds.
To Brown Ground Beef , 1 lb.	нідн	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,	HIGH	2½ - 4	Place in a small bowl. Stir twice.
To Soften Brown sugar	HIGH	1/2 - 3/4	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	нідн	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

1) Select SENSOR PAD ex. Potatoes (any quantity) Potato/ Vegetables Potato/ Vegetables Potato/ Foods Fo	PRESS until proper food is displayed. MENU ACTION MESSAGE is "POTATO PRESS START".
2) MORE/LESS* Optional	·
Start -	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.

*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

Sensor Reheat	PRESS. MENU ACTION MESSAGE is "SENSOR REHEAT - PRESS START". Start flashes.
2) MORE/LESS* Optional	
3)	PRESS. MENU ACTION MESSAGE is "SENSOR REHEAT CLOSE DOOR". Sensor evaluation begins. After 2 beeps, display will count- down.

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:

- 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	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 % cup 1 cup 1 cup 2 cups 1% cup 3 cups 2 cups 3% cups	Place rice and cold water with ½ 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.
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 2 x	Frozen Dinners	9 - 18 oz. (260 - 510 g)	foods packaged in foil tray. After beep, stir if possible or ladle gravy or sauce over.
1 x	Casserole	1 - 4 qt.	Use appropriate amount of liquid. Cover with
Casserole/ Stew 2 x	Stew	1 - 4 qt.	casserole lid. Stir occasionally or rearrange after beep. Use recipes in the Cooking Guide section.
Seafood 1 x	Fish Fillets	½- 1½lb. (230 - 680 g)	Arrange in a single layer in dish. Cover with lid or
	Shellfish	½-1½ lb. (230 - 680 g)	plastic wrap. Stir or rearrange after beep.
1 x	Bacon	2 - 6 slices	Place on microwave safe dish. Cover with paper towels.
Poultry/Meat 2 x	Chicken Pieces	½ - 2 lb. (230 g -1 kg)	Płace 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:

- 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.
- 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

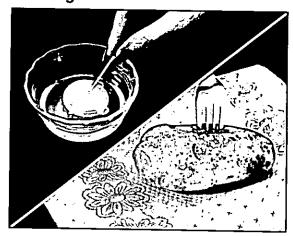
Thin pieces cook more quickly than thick pieces.

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

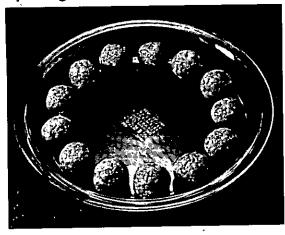


Foods will not have the same brown appearance as conventionally cooked foods or these foods which are cooked utilizing the browning feature. Meats and poultry may be coated with browning sauce, Worcestershire sauce, barbecue sauce or shake-on browning sauce. To use, combine browning sauce with melted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

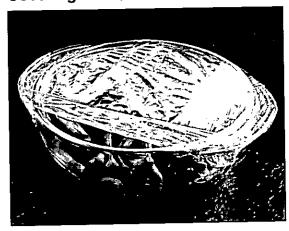
Cooking Techniques

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

Meat Roasting Chart for Sensor & Time Cooking

					•
MEAT	SENSOR COOKING CATEGORY	COC	R & TIME DKING In/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			
Medium Well Rump, Eye of round (High Quality)	BEEF-MEDIUM	MEDIUM MEDIUM	9 to 11 12 to 14 4½ to 16½	[140°F (60°C)	Place roast fat-side up. Cover roast with plastic wrap.
Rare Medium Well	BEEF-MEDIUM	MEDIUM MEDIUM MEDIUM	9 to 12 11 to 13 14 to 17	130°F (55°C) 140°F (60°C) 160°F (70°C)	,
BEEF POT ROAST [2% to 3% Lb. (1.2 to 1.7 kg)] Chuck, Rump	<u>-</u>	MEDIUM LOW	30 to 35		Cover meat with liquid. Tum 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 9)]	· 	MEDIUM MEDIUM MEDIUM HIGH	13 to 15	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		MEDIUM MEDIUM	1 to 16	160°F (70°C)	Place fat-side up. Cover with wax paper.
Well * The recommended maximum weigh	· · · <u> </u>	MEDIUM MEDIUM	8 to 11 10 to 15	140°F (60°C) 160°F (70°C)	

^{*} 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 3 4	HIGH	1 to 2 2 to 2½ 2½ to 3	1 .
Canadian Bacon, Slices [1 oz. (30 g)]	2 4 6	MEDIUM-HIGH	½ to ¾ 1 to 2 3 to 4	1
Frankfurters, scored	2 4	HIGH	2 to 3 3 to 4	3
Ham, Slices [about 2 oz. (60 g) ea.]	· 2	HIGH	1½ to 2½ 2½ to 3½	2
Hamburgers, well [4 oz. (120 g) ea.]	1 2 4	HIGH	2 to 3 3 to 4 4½ to 51½	2
Lamb Chops, shoulder,	2 (about 1/2 lb.) 4 (about 1 lb.)	MEDIUM-HIGH	5½ to 7 10½ to 12	3
3/4-inch (2 cm) thick Pork Chops, rib or loin,	2 (about 1/2 lb.) 4 (about 1 lb.)	MEDIUM-HIGI	41/2 to 51/2 8 to 10	3
1/2-inch (1 cm) thick Sausage Links, frozen [precooked, brown and serve]	2 4 8	HIGH	1 to 2½ 1½ to 2½ 3 to 4	2
Sausage Links, fresh [2 to 3 oz. (60 to 90 g) ea.]	2 4 8	HIGH	4 to 6 6 to 8 8 to 10	3

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.

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

	 	Time Cooking						
POULTRY	SENSOR COOKING CATEGORY	√ co	POWER & TIME COOKING [time in min/lb. (450 g)]		SPECIAL INSTRUCTIONS			
Cornish Hens, whole				COOKING				
[1 to 1½ lb. (500 to 750 g) ea.]	_ 		7 to 9		Place breast-side			
Chicken parts	CHICKEN	HIGH	 	<u> </u>	up.			
	PIECES		7 to 8		Place skin-side u Cover with plastic			
Chickens [up to 4 lb. (2kg)]		 	 -	 	wrap			
	WHOLE CHICKEN	MEDIUM-	8½ to 11½		Place breast-side down. Turn breast			
Chickens [4 to 6 lb. (2 to 3 kg)]	OHIOREN	CKEN HIGH	14 to 16	180°F-190°F (80°C-90°C)	side up after half cooking time. Cov			
urkey Breast			 	(00 0 30 0)	with plastic wrap.			
[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			
Ouck [3 to 5 lb. (1.5 to 2.5 kg)]				(00 0-90 0)	up.			
'urkey* [8 to 12 lb. (4 to 6 kg)]		MEDIUM-	8 to 10	180°F-190°F (80°C-90°C)				
The recommended maximum wei		HIGH	12 to 14	180°F				

^{*} 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.

Seafood	PRESS once = FISH FILLETS twice = SHELLFISH
2) More/ Less (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

	SENSOR C	OOKING	TIME COOKING			
FISH OR SEAFOOD	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]				MEDIUM-HIGH		
Scallops (sea)	1/2 to 2 lb. (250 g to 1 kg)	SHELLFISH	,	MEDIUM-HIGH		
Shrimp, medium size (shelled and cleaned)	1/2 to 2 lb. (250 g to 1 kg)	SHELLFISH	1 lb. (500 g)	MEDIUM-HIGH		
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)	Casserole/ Stew	PRESS 1 x = CASSEROLE 2 x = STEW
2)	More/ Less	SELECT DONENESS 1 x = more 2 x = less
3)	- Start -	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.

Potato/ Vegetable	PRESS once = POTATO twice = FRESH VEGETABLES 3 times = FROZEN VEGETABLES
(optional)	SELECT DONENESS once = more twice = less
3) - Start	PRESS

Fresh Vegetable Chart for Sensor & Time Cooking

VEGETABLE	AMOUNT	WATER	SENSOR COOKING CATEGORY	APPROX. COOKING TIME at HIGH Powe (In minutes)
Artichokes, 6 to 8 oz. ea.	1 2	2 tablespoons 1/4 cup		6 to 7
Acres C.	4	1/4 cup	İ	9 to 11
Asparagus, 6-in spears	1 lb. (500 g)	2 tablespoons		14 to 16
Beans, green/wax, cut into 1%-in. pieces	1 lb. (500 g)	1/4 cup	4	7 to 8
broccoll, cut into spears	1 lb. (500 g)	1/4 cup	FRESH VEG.	7 to 9
Brussels Sprouts	1 tub	2 tablespoons	-	7 to 10
0-11-	[10 oz. (300 g)]	- mneshooms	1	7 to 9
Cabbage, shredded	1 lb. (500 g)	1/4 cup	4	
Carrots, sliced 1/2-in. thick	1 lb. (500 g)	1/4 cup	4	7 to 9
0 ()	1 ear	2 tablespoons	 	7 to 9
Corn, fresh on the Cob	2 ears	2 tablespoons		6 to 7
F	4 ears	1/4 our		7 to 9
Eggplant, fresh cubed	1 lb. (500 g)	1/4 cup	 	12 to 14
Whole (pierce skin several times)	1 to 1¼ lb.	1/4 cup		7 to 8½
<u> </u>	(500 to 600 g)		FRESH VEG.	4% to 7
Onions, small whole	8 to 10	1/4 000		
	[1 lb. (500 g)]	1/4 cup		6½ to 7½
eas, green, shelled	2 lb. (1kg)	1/4		
otatoes, 8 to 9 oz. ea.	1 1	1/4 cup	FRESH VEG.	6 to 8
Cook uncovered, turn over halfway	, ,			5 to 7
nrough cooking time. Pierce skin	1		POTATO	8 to 10
everal times before cooking.	7		!	13 to 15½
pinach, leaf	1 lb. (500 g)			12 1072
quash, Summer, sliced 1/2-in, thick	1 lb (500 g)	2 tablespoons		5½ to 7
quash, Winter, Cut in half scoop out	1 lb. (500 g)	2 tablespoons	FRESH VEG.	6 to 8
eeds, 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	3-qt.	1½ quarts		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
(8 oz.) Specialty Noodle (8 oz.)	3-qt. casserole	1½ quarts	PASTA	HIGH	8 - 12	. 3	bring water to boil (HIGH for 10 - 15 minutes). Stir in pasta. Cook, covered;
Spaghetti or Fusilli (8 oz. broken) Frozen Tortellini	3-qt. casserole 3-qt.	2quarts 1½ quarts		HIGH	12 - 14 7 - 9	3	stir occasionally. Let stand, covered. Pasta that is to be added to a casserole should be slightly undercooked.
(16 oz.) RICE Flavored Rice Mix	casserole 2-qt. casserole	as pkg. directs		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
(4.4 to 7.5 oz.) Long Grain (1 cup) Short Grain (1 cup)	2-qt. casserole 2-qt. casserole	2 cups	RICE	MEDIUM -LOW MEDIUM -LOW	13 - 16	10	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.
CEREAL Cream of Wheat (Reg.) 1 serving	1-qt. glass bowl	% cup		HIGH	2 - 4	1	Stir cereal into water. Stir frequently. Cook uncovered.
(2½ tbsp.) 2 servings (½ cup)	1½-qt. glass bowl	1½ cups		HIGH	3 - 5	1	Stir once before stand time.
Farina 1 serving	. 1-qt.	1 cup		нівн	2 - 3	1	Cover and heat hot water to a boil at HIGH (approx. 3 to 6 min.) Slowly add cereal; stirring frequently. Cook
(3 tbsp.) 2 servings (6 tbsp.)	1½-qt. glass bowl	2 cups		HIGH	2 - 4	1	uncovered. Stir once before stand time.
Oatmeal (Quick) 1 serving	individual	Усир		HIGH	1 - 2	1	
(% cup) 2 servings (% cup)	serving dist 2 individua serving dishe	1 1½ cups	S	HIGH		1	
4 servings (1% cups)	2-qt. glass bowl	3 cups		HIGH	5-6	2	Combine water and cereal. Cook uncovered.
Wheat Bran Cerea	1-qt.	%cup		HIGH	3 - 4	1	Stir once before stand time.
(¼ cup) 2 servings (½ cup)	glass bow 1%-qt. glass bow	1½ cup		HIGH			
4 servings (1 cup)	2-qt. glass bow	3 cups	s	HIGI			It in 1-quart casserole. Cover

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.		Line bottom of 8½" x4½"x2½" 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.
(7 or 8 oz.)	All batter	Grease 8" or 9" round or square dish.	MEDIUM-HIGH 3% - 6 min.		Cover with wax paper.	10 min.
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.	
Muffins (Cook 6 at a time)	Fill ½ full	6-cup muffin pan lined with paper baking cups	MEDIUM 2½ - 5 min.			5 min.
Cake Mix (18 to 20% oz.)	2¼ 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 20¼ oz.)	Prepare batter according to package directions. Pour all batter into pan.	Generously grease 16-cup fluted tube pan	8 - 10 min.	HIGH 6 - 11 min.	Cover pan with wax paper.	
	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) 1% - 2 2 - 2% 3% - 4%		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	% - 1%	1
2	measure 1-cup glass measure	1½ - 2	1½
4	1-quart bowl	3¼ - 3¾	1½
6	1½-quart bowl	4% - 5%	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	1/2 - 3/4	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 %-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 1½ 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

The oven causes interference with my TV.	micro smal	e radio and TV interference might occur owave oven. This interference is similar il appliances such as mixers, vacuums, ate a problem with your oven.	to the interference caused by
The oven lights dim.	obta	n cooking with a power other than HIGH in the lower power levels. The oven ligh be heard when the oven cycles.	
Steam accumulates on the oven door and warm air comes from the oven vents.	the s	ng cooking, steam and warm air are giv steam and warm air are removed from the lates in the oven cavity. However, some er surfaces such as the oven door. This	he oven by the air which e steam will condense on
I accidentally ran my microwave oven without any food in it.	How	ning the oven empty for a short time will rever, we do not recommend operating to in it.	
PROBLEM	-	POSSIBLE CAUSE	REMEDY
		The oven is not plugged in securely.	Remove plug from outlet, wait 10 seconds and reinsert.
Oven will not turn on.	→	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.
	7	The door is not closed completely.	Close the oven door securely.
		Start Pad was not pressed after programming.	Press <i>Start</i> Pad.
Oven will not start cooking.	→	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.

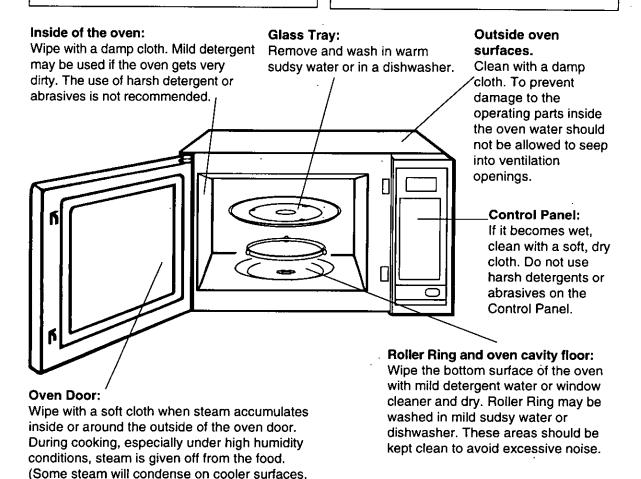
Care of Your Microwave Oven

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.



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

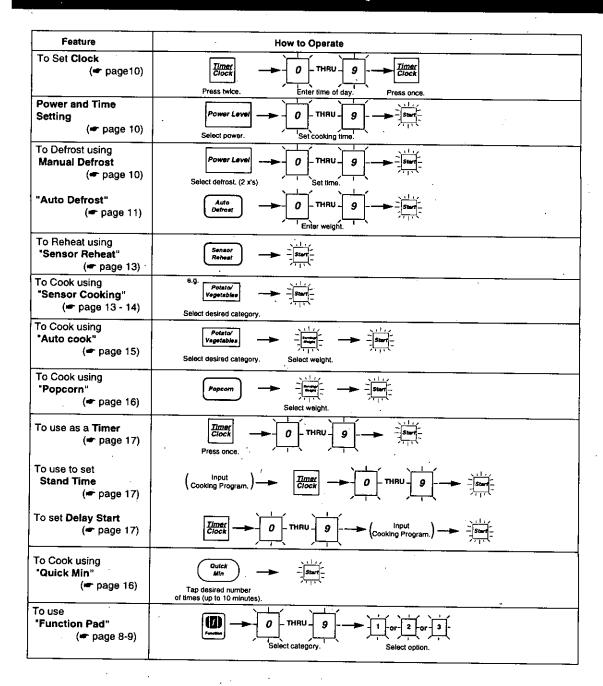
DESCRIPTION	PART NUMBER	PRICE
nstruction/Operating Manual (this book)	B00039410AP	①
Cooking Guide	B000B8250AP	Ũ
Glass Tray (see diagram on page 7)	A06015690QP (NN-S587, E577)	\$18.79
	A06014000AP (NN-S77, E777, S687, E677)	\$24.31
Roller Ring (see diagram on page 7)	B290D5950AP (NN-S587, E577)	\$ 8.40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

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

such as the oven door.) This is normal.

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

Quick Guide to Operation



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