

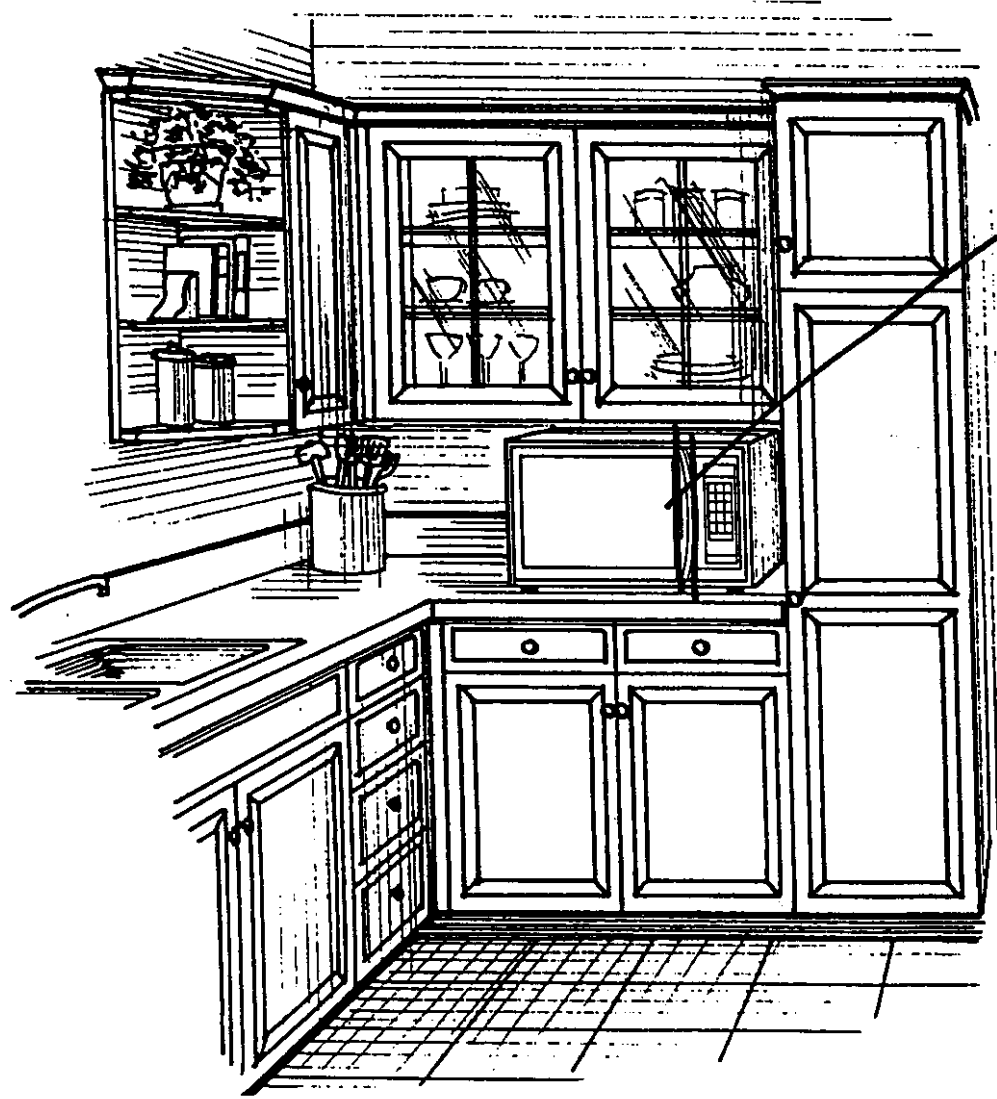
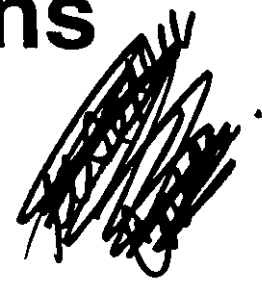
Panasonic®

To Mike -
2/4/99

Operating Instructions

DRAFT

Microwave Oven
Model NN-~~3758~~ L 829



STRAIGHT
POO.

This manual contains Safety Instructions, Operating Instructions and Maintenance of the oven.
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 15-25.
(Spanish Operating Instructions can be found on pages 15-25.)
For Cooking Guide and Parts Order Form p. 14

Thank you for purchasing the Panasonic Microwave Oven.
 Please read the instructions completely.
 Let's Start to Use Your Oven!—page 8.

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.

Technical specifications		NN-L829
Power Consumption:		14.0 Amps, 1600 w
Output: *		1100 w
Outside Dimensions (H x W x D)		14" x 23 7/16" x 16 3/4" (356 x 595 x 425 mm)
Oven Cavity Dimensions (H x W x D)		10 11/16 " x 17 3/16" x 15 9/16" (272 x 437 x 396 mm)
Operating Frequency		2,460 MHz
Uncrated Weight (approx.)		40 lbs. (18.0 kg)
* IEC 705-88 Test Procedure	Specifications subject to change without notice	

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

Model No. _____

Serial No. _____

Date of Purchase _____

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IMPORTANT SAFETY INSTRUCTIONS

Your microwave oven is a cooking device and you should use as much care as you use with a stove or any other cooking device. When using this electric appliance, basic safety precautions should be followed, including the following:

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

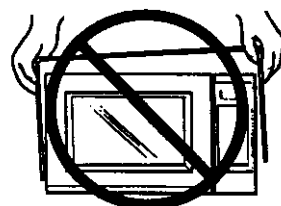
1. Read all instructions before using the appliance.
2. Read and follow the specific "PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY," found on back of the front cover.
3. This appliance must be grounded. Connect only to properly grounded outlet. See "GROUNDING INSTRUCTIONS" found 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, vapors, or non-food products in this appliance. This type of oven is specifically designed to heat or cook. It is not designed for industrial or laboratory use. The use of corrosive chemicals in heating or cleaning will damage the appliance and may result in radiation leaks.
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. Do not allow children to use this appliance, unless closely supervised by an adult.
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 the edge of a 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, narrow neck bottles 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.

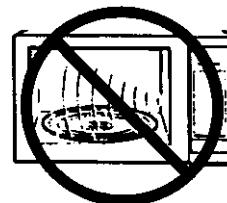
(d) Do not use the cavity for storage purposes. Do not leave paper products, cooking utensils, or food in the cavity when not in use.

General Use

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 must be done only by a qualified service person.



2. **DO NOT** operate the oven empty. The microwave energy will reflect continuously throughout the oven causing overheating, if food or water is not present to absorb energy. This could damage the oven and result in a risk of fire.



3. **DO NOT** dry clothes, newspapers or other materials in oven, or use newspapers or paper bags for cooking. Fire could result.
4. **DO NOT** use recycled paper products unless the paper product is labeled as safe for microwave oven use. Recycled paper products may contain impurities which may cause sparks, and result in fires when used.
5. **DO NOT** hit or strike control panel. Damage to controls may occur. Fire could result.
6. **POT HOLDERS** should always be used when removing items from the oven. Heat is transferred from the **HOT** food to the cooking container and from the cooking container to the Glass Tray. The Glass Tray can be very **HOT** after removing cooking container from oven.
7. **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 (7.6 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.

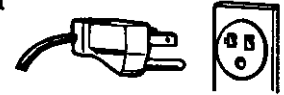
Consult a qualified electrician or service person if the grounding instructions are not completely understood or if doubt exists as to whether the appliance is properly grounded. If it is necessary to use an extension cord, use only a three wire extension cord that has a three blade grounding plug, and 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, (a) the marked electrical rating of the cord set or extension cord should be at least as great as the electrical rating of the appliance, (b) the extension cord must be a grounding-type 3-wire cord, and (c) the longer cord should be arranged so that it will not drape over the counter top or tabletop where it can be pulled on by children or tripped over 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, 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 (120 V, 60 Hz). Using a higher voltage is dangerous and may result in a fire or other incident 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.



TV / 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.

Glass Tray

- DO NOT** operate the oven without Roller Ring and Glass Tray in place.
- DO NOT** operate the oven without the Glass Tray fully engaged on the drive hub. Improper cooking or damage to the oven could result. Verify that the Glass Tray is properly engaged and rotating by observing its rotation when you press **Start**.
- Only use Glass Tray specifically designed for this oven. Do not substitute any other glass tray.
- If Glass Tray is hot, allow to cool before cleaning or placing in water.
- 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.
- Glass Tray can turn in either direction.

Roller Ring

- Roller Ring and oven floor should be cleaned frequently to prevent excessive noise.
- Roller Ring must always be used for cooking along with Glass Tray.
- Always replace Roller Ring and Glass Tray in their proper positions.

Safety Precautions

Follow These Safety Precautions When Cooking in Your Oven

IMPORTANT

Proper cooking depends upon the power, the time set and the quantity of food. If you use a smaller portion than recommended and cook at the time for the recommended portion, fire could result.

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

- **DO NOT** use your oven for home canning, your oven cannot maintain the food at the proper canning temperature. Improperly canned food may spoil and be dangerous to consume.
- **DO NOT** dry meats, herbs, fruits or vegetables in your oven. Small quantities of food or foods with low moisture content can dry out, scorch or catch on fire if overheated.

2) POPCORN

Popcorn may 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.

CAUTION:

When using pre-packaged microwave popcorn, follow recommended package instructions. Check package weight before using the *Popcorn* pad (see *Popcorn Pad* section). Set the oven for the weight of the popcorn package.

If these instructions are not followed, the popcorn may not pop adequately or may ignite and cause a fire. Never leave oven unattended when popping popcorn. Allow the popcorn bag to cool before opening, always open the bag away from your face and body to prevent steam burns.

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 or melt.

4) FOODS WITH NONPOROUS SKINS

- Potatoes, apples, whole eggs, 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. Use recommended weights for programmed cooking. Overcooking causes dehydration and may result in a fire.

5) LIQUIDS

- Heated liquids can erupt if not mixed with air. **DO NOT** heat liquids in your microwave oven without first stirring. Overheated liquids will erupt.

6) GLASS TRAY / COOKING UTENSILS / FOIL

- Cooking utensils get hot during microwaving. Heat is transferred from the HOT food to the container and the Glass Tray. 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 (2.5 cm) of space between metal material and interior oven walls. If arcing occurs (sparking), remove metal material (skewers, etc.) and/or transfer to a non-metallic container.
- Dishes with metallic trim should not be used, as arcing may occur.
- If an entree is heated in a foil tray, maintain at least 1-inch (2.5 cm) spacing from the oven walls.

7) 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. Use paper toweling under supervision.

8) 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 6 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, instead use plastic ties, cotton string or a strip cut from the open end of the bag.

9) THERMOMETERS

- **DO NOT** use a conventional meat thermometer in your oven. Arcing may occur. Microwave-safe thermometers are available for both meat and candy.

10) BABY FORMULA / FOOD

- **DO NOT** heat baby formula or food in the microwave oven. The glass jar or surface of the food may appear to be only warm while the interior can be so hot as to burn the infant's mouth and esophagus.

11) REHEATING PASTRY PRODUCTS

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

12) GENERAL OVEN USAGE GUIDELINES

- **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

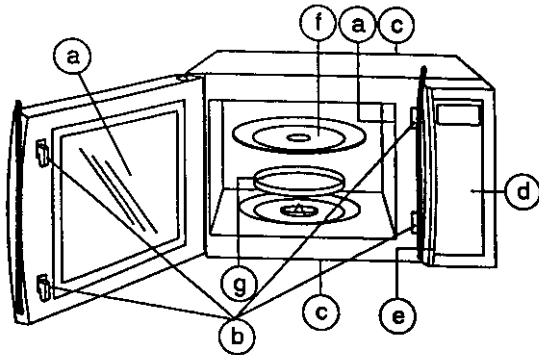
ITEM	MICROWAVE	COMMENTS
Aluminum Foil	Yes, for Shielding only	Small strips of foil can be molded around thin parts of meat or poultry to prevent overcooking. Arcing can occur if foil is too close to oven wall or if too much foil is used.
Browning Dish	Yes	Browning dishes are designed for microwave cooking only. Check browning dish information for instructions and heating chart. Do not preheat for more than 6 minutes.
Brown paper bags	No	May cause a fire in the oven.
Dinnerware Labeled "Microwave-Safe"	Yes	Check manufacturers' use and care directions for use in microwave heating. Some dinnerware may state on the back of the dish, "Oven-Microwave Safe".
Other Dinnerware	?	Use CONTAINER TEST below.
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	Metal handle may cause arcing.
Frozen Dinner Tray Metal	Yes	Frozen dinners may be heated in foil tray, if tray is less than 1/4-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 1/4-inch (2 cm) deep, remove food and place in a similar size microwave-safe container.
Microwave-safe	Yes	
Glass Jars	Yes, use caution	Remove lid. Heat food until just warm, not HOT. Most glass jars are not heat resistant. Do not use for cooking.
Glassware Heat Resistant Oven Glassware & Ceramics	Yes	Ideal for microwave cooking and browning. (See CONTAINER TEST below).
Metal Bakeware	No	Not recommended for use in microwave ovens.
Metal Twist-Ties	No	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 1/2-inch (1 cm) slits near the closure.
Paper Plates & Cups	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.
Parchment Paper	Yes	Use as a cover to prevent spattering. Safe for use in microwave, microwave/convection and conventional ovens.
Plastic Microwave-Safe Cookware	Yes	Should be labeled, "Suitable for Microwave Heating." Check manufacturers' directions for recommended uses.
Reheat & Storage	Yes, use caution	Some microwave-safe plastic dishes are not suitable for cooking foods with high fat or sugar content. The heat from hot food may cause the plastic to warp.
Melamine	No	This material absorbs microwave energy. Dishes get HOT!
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 and prevent spattering. Should be labeled "Suitable for Microwave Heating". Check package directions.
Straw, Wicker, Wood	Yes	Use only for short term reheating and to bring food to a low serving temperature.
Thermometers Microwave-safe, only	Yes	Use only microwave-safe meat and candy thermometers.
Conventional	No	Not suitable for use in microwave oven, will cause sparks and get hot.
Wax paper	Yes	Use as a cover to prevent spattering and to retain moisture.

CONTAINER TEST

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 (1) minute at P100 (HIGH). If the container is microwave oven-safe (transparent to microwave energy), the container 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.

Features

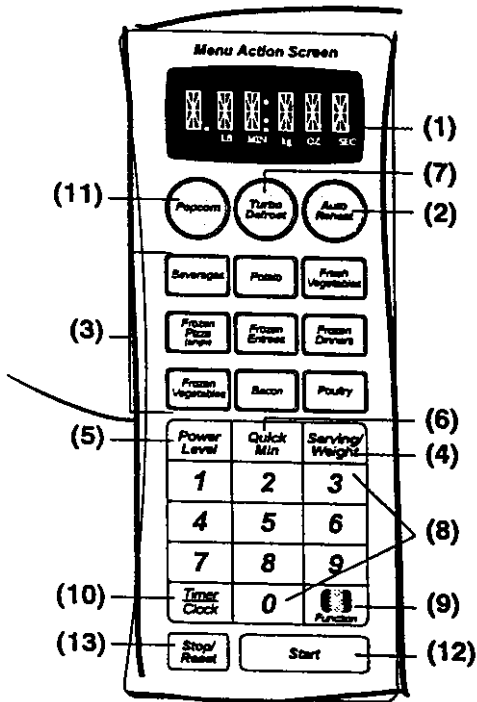
FD-3



- (a) Vapor Barrier Film (do not remove)
- (b) Door Safety Lock System
- (c) External Air Vents
- (d) Control Panel
- (e) Identification Plate
- (f) Glass Tray
- (g) Roller Ring

Control Panel

Number Pad



- (1) Menu Action Screen-Display Window
- (2) Auto Reheat Pad
- (3) Auto Cook Pads
- (4) Serving/Weight Pad
- (5) Power Level Pad
- (6) Quick Min Pad
- (7) Turbo Defrost Pad
- (8) Number Pads
- (9) Function Pad
- (10) Timer/Clock Pad
- (11) Popcorn Pad
- (12) 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 be pressed again to restart oven.

(13) 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 appears on the display screen.

To Use Function Pad

1)		Press. The Menu Action Screen will prompt the next action.
2)		Select choice 0 - 9 using the number pads
3)		Select option 1, 2 or 3
4)	Repeat steps 1-3	For other options, see page 7.

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.




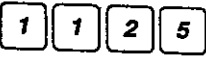

→ 1	<p>LANGUAGE CHOICE</p> <p>The oven has English, French and Spanish display. The display appears in English when you plug-in.</p> <p>1 ENGLISH → Display appears in English. 2 FRANCAIS → Display appears in French. 3 ESPANOL → Display appears in Spanish.</p>
→ 2	<p>Lb/KG CHOICE</p> <p>The oven has both 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 oz/lb. 2 KG → Weight can be set in g/kg.</p>
→ 3	<p>WORD SPEED</p> <p>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</p> <p>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</p> <p>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</p> <p>If you wish to have the oven operate with no beep, it can be eliminated.</p> <p>1 ON → Beep sound will reactivate. 2 OFF → Beep sound will not be heard.</p>
→ 7	<p>REMINDER BEEP ON/OFF</p> <p>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 reverts to original setting.</p>
→ 9	<p>CLOCK ON/OFF</p> <p>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</p> <p>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>

TUFP-1

Clock Setting

You can use the oven without setting the clock.

Example: To set 11:25 a.m. or p.m.



1. 	<ul style="list-style-type: none"> Press twice. ➤ Colon will blink.
2. 	<ul style="list-style-type: none"> Enter time of day using the number pads. ➤ Time appears on the screen; colon is blinking.
3. 	<ul style="list-style-type: none"> Press. ➤ Colon stops blinking; time of day is entered and locked onto the screen.

NOTES:

- To reset time of day, repeat step 1 through step 3.
- The clock will keep the time of day as long as oven is plugged in and electricity is supplied.
- If the area you live in adjusts their clock either forward or backward during the year, see the feature on **Function PAD #8** (page 7) for easy adjustment.

Popcorn Function

Example: To heat 3.5 oz. of Popcorn

1.  Press once	<ul style="list-style-type: none"> Set the desired weight of prepackaged microwave popcorn. <table border="1"> <thead> <tr> <th>Press</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>once</td> <td>3.5 oz. (99 g)</td> </tr> <tr> <td>twice</td> <td>3.0 oz. (90 g)</td> </tr> <tr> <td>3 times</td> <td>1.75 oz. (50 g)</td> </tr> </tbody> </table>	Press	Weight	once	3.5 oz. (99 g)	twice	3.0 oz. (90 g)	3 times	1.75 oz. (50 g)
Press	Weight								
once	3.5 oz. (99 g)								
twice	3.0 oz. (90 g)								
3 times	1.75 oz. (50 g)								
2. 	<ul style="list-style-type: none"> Press. ➤ Cooking time appears and begins to count down. 								

NOTES ON POPCORN PAD:




- Use prepackaged room temperature microwave popcorn. Read manufacturers' instructions.
- Place bag in oven according to manufacturers' directions.
- Pop only one bag at a time.
- After popping, allow the contents of the bag to cool for a few minutes before opening. Open bag carefully away from face and body because popcorn and steam are extremely hot.
- Do not reheat unpopped kernels or reuse bag.
- NEVER leave oven unattended when popping popcorn.

CAUTION: If prepackaged 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.

Power & Time Setting

How do I program Power and Time?

Example: To cook at MEDIUM Power for 1 minute 30 seconds

1.  4 times = Med.	<ul style="list-style-type: none"> Select Power Level. (according to the chart below)
2.  1:30	<ul style="list-style-type: none"> Set Cooking Time using number pads. (up to 99 minutes and 99 seconds for a single stage)
3. 	<ul style="list-style-type: none"> Press. ➤ Cooking will start. The time on the screen will begin to count down.

Press	Power Level	% Power
once	P100 (HIGH)	100%
twice	DEF (DEFROST)	30%
3 times	P 70 (MEDIUM-HIGH)	70%
4 times	P 50 (MEDIUM)	50%
5 times	P 30 (MEDIUM-LOW)	30%
6 times	P 10 (LOW)	10%



NOTES:

- For 2 or 3 stage cooking, repeat steps 1 and 2 above before pressing **Start** Pad.
- When selecting HIGH Power on the first stage, you can start from step 2.
- At the end of the cooking sequence, the oven will sound 5 beeps.

Quick Min Function

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

To Set Cooking Time:

1. 	<ul style="list-style-type: none"> Set cooking time (up to 10 taps/minutes)
2. 	<ul style="list-style-type: none"> Press ➤ Cooking will start on HIGH power.

NOTE:




- You can use other power levels, select the desired power level before setting the cooking time.
- After setting the time by **Quick Min** Pad, you cannot use Number Pads, and vice versa.

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 8.

Example: To cook a 10 oz. Frozen Entree.

1.		Press.
2.	 select 10 oz.	Press the Serving/Weight pad until the desired quantity appears on the Display Window.
3.		Press the Start pad. The time for cooking will appear in the Display Window and count down. 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
<i>Beverages</i>	COFFEE/TEA	1 or 2 cups (6 - 7 oz serving)	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.
<i>Potato</i>		1-4 (6-8 oz each)	Pierce skin with a fork, arrange in a circle.
<i>Fresh Vegetables</i>		4, 8, 12, 16 oz (110,225,340,450 g) For best results, pieces should be the same size	Cover with a lid or plastic wrap. Add small amount of water. Stir occasionally during cooking. Let stand, covered 3-5 minutes before serving.
<i>Frozen Pizza (single)</i>		4, 8 oz (110, 225 g)	Follow package directions. Place pizza on crisper shield.
<i>Frozen Entrees</i>		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 trays. Halfway through cooking, rearrange or stir.
<i>Frozen Dinners</i>		11, 15 oz (300, 430 g)	Follow manufacturers' directions for covering or removing covers. For best results, do not use frozen foods packaged in foil trays. Halfway through cooking, rearrange or stir.
<i>Frozen Vegetables</i>		5, 10, 16 oz (150, 300, 450 g)	Follow package directions or place in microwave dish, add water and cover with plastic wrap.
<i>Bacon</i>		2,3,4,6 slices	Place on microwave safe dish and cover with paper towels.
<i>Poultry</i>	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.

Auto Reheat

This feature allows you to reheat 1 to 4 servings of precooked room temperature and refrigerator temperature foods without setting power and time.

Example: To reheat 2 cups of soup

1.		• Press until the desired number of servings appears on the screen.
	Press twice	
2.		• Press. ➤ Cooking time appears on the screen and begins to count down.

NOTES:

1. *Auto Reheat* can be programmed for 1 to 4 servings.
2. The following are the recommended food items and approximate weights.

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




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.

Turbo Defrost

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

Example: To defrost 1.5 lb. of meat (1 lb. 8 oz.)

1.		• Press.
2.		• Enter the weight of the food using the number pads. Weight must be programmed in pounds and ounces. (See conversion chart below.)
3.		• Press. ➤ Defrosting time appears on the screen and begins to count down.

Conversion Chart:

Follow this chart to convert ounces or hundredths of a pound into tenths of a pound.

If a piece of meat weighs 1.95 pounds, the equivalent is 1 pound 14 ounces.

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

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)]				
Crabmeat	12 to 14	Break apart	5 min.	NO
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		YES
Meat				
Ground Meat	8 to 10	Turn over/Remove defrosted portion/Shield edges	10 min.	NO
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	5 min.	
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				
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.	NO
Pieces	8 to 10	Separate	10 min.	
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	20 min. in refrig	YES






Timer Setting

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






To Use as a Kitchen Timer:

Example: To count 5 minutes	
1. 	• Press.
2. 	• Enter desired amount of time using the number pads (up to 99 minutes and 99 seconds).
3. 	• Press. ➤ Time will count down without oven operating.

To Set Stand Time:

Example: To stand for 5 minutes after cooking (3 mins. at MEDIUM Power)	
1.  4 times ↓ 	• Enter the desired cooking program (see page 8 for directions).
2. 	• Press once.
3. 	• Set desired amount of Stand Time using the number pads (up to 99 minutes and 99 seconds).
4. 	• Press. ➤ Cooking will start. After cooking, stand time will count down without oven operating.

To Set Delay Start:

Example: To start cooking 5 minutes later (3 mins. at MEDIUM Power)	
1. 	• Press once.
2. 	• Enter desired amount of delayed time using the number pads (up to 99 minutes and 99 seconds).
3.  ↓ 	• Enter the desired cooking program (see page 8 for directions).
4. 	• Press. ➤ Delayed time will count down. Then cooking will start.

NOTES:

1. If oven door is opened during Stand Time or Kitchen Timer, the time on the screen will continue to count down.
2. 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 results.

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	ACTION
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 is already entered into the oven.	Press Stop/Reset Pad to cancel the previous program and enter new program.
	→ 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 in the <i>Display Window</i> .	→ DEMO MODE has been activated.	Deactivate DEMO MODE by using Function pad. See To Use Function Pad .
The Glass Tray wobbles.	→ The Glass Tray is not positioned properly on the Roller Ring(s) or there is food under the Roller Ring(s).	Take out Glass Tray and Roller Ring(s). Wipe with a damp cloth and reset Roller Ring(s) and Glass Tray properly.
When the oven is operating, there is noise coming from the Glass Tray.	→ The Roller Ring(s) and oven bottom are dirty.	Clean according to Care of Your Microwave Oven .

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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 detergents or abrasives is not recommended.

Glass Tray:

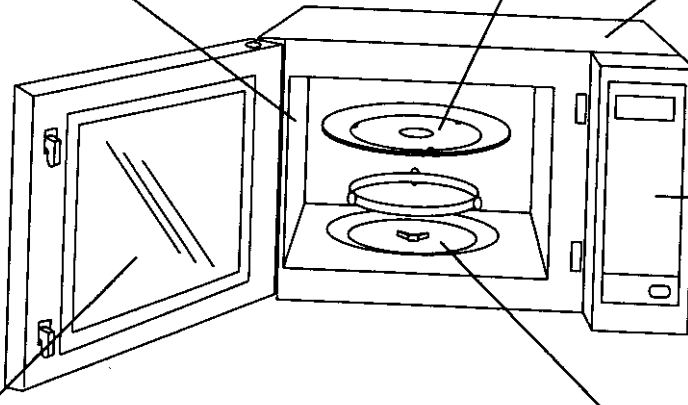
Remove and wash in warm, soapy water or in a dishwasher.

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:

- * Covered with a removable protective film to prevent scratches during shipping. Small bubbles may appear under this film. (Hint - To remove film, apply masking or clear tape to an exposed corner and pull gently.)
- * If the control panel becomes wet, clean it 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 food. (Some steam will condense on cooler surfaces, such as the oven door. This is normal.)
- * Inside surface is covered with a heat and vapor barrier film. **Do not remove.**

Roller Ring and oven cavity floor:

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

ORDER FORM

For more information regarding microwave cooking, order our new **COOKING GUIDE** (68 pages of recipes & charts).

DESCRIPTION

Instruction / Operating Manual (this book)
COOKING GUIDE
 Glass Tray (see *Care of Your Microwave Oven* above)
 Roller Ring Assembly
 (see *Care of Your Microwave Oven* above)

PART NUMBER

P1 AAP
 B0003412AP
 B000B8250AP
 A06014000AP
 B290D9330AP

PRICE

① ~~\$0.10~~ **\$4.60**
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- 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.
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