

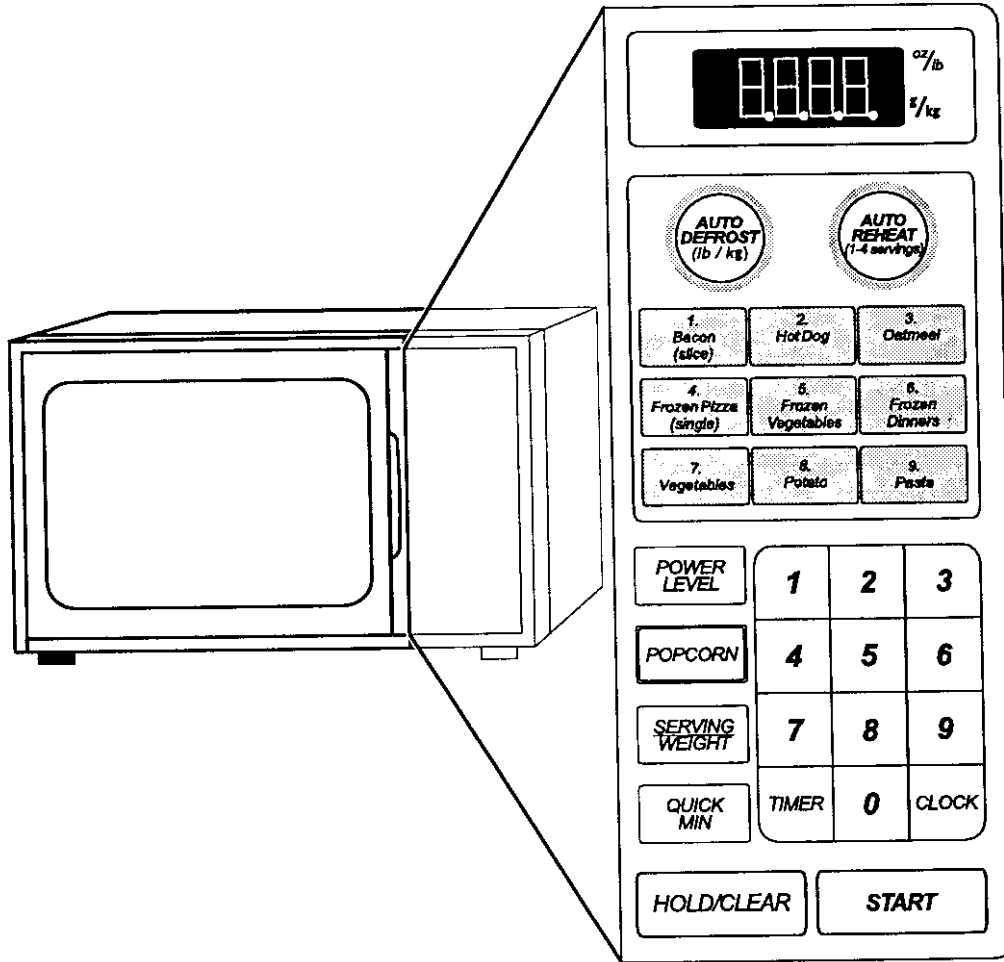
# Quasar®



# Operating Instructions

Microwave Oven  
Model MQS1395  
MQS1095

*2nd Proof to  
MMOC 10/22/98*



*40 R.R.  
10/23  
P.R.  
10/23*

✓  
Thank you for purchasing the Quasar 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 RECEIPT HERE.**

If you have any questions or it seems there is a problem with the oven, contact **PANASONIC / QUASAR / TECHNICS Customer Call Center** for assistance, 1-800-211-PANA(7262) (9 a.m. - 9 p.m., E.S.T., toll free).

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 \_\_\_\_\_

1998

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# TECHNICAL SPECIFICATIONS

	MQS 1095	MQS 1395
Power consumption:	12.5 Amps, 1450 W	<del>13.5</del> 15.5 Amps, 1550 W
Output*:	1100 W	1100 W
Outside Dimensions (H x W x D):	12" x 21 <sup>7</sup> / <sub>8</sub> " x 16 <sup>3</sup> / <sub>4</sub> " (306 x 555 x 425mm)	12" x 20" x 14 <sup>3</sup> / <sub>16</sub> " (306 x 510 x 360mm)
Oven Cavity Dimensions (H x W x D):	9 <sup>1</sup> / <sub>8</sub> " x 14 <sup>15</sup> / <sub>16</sub> " x 15 <sup>13</sup> / <sub>16</sub> " (232 x 380 x 402mm)	9" x 13 <sup>7</sup> / <sub>8</sub> " x 13 <sup>5</sup> / <sub>16</sub> " (229 x 353 x 338mm)
Operating Frequency:	2,450 MHz	2,450 MHz
Uncrated Weight (Approx.):	38 lbs. (17.2 kg)	34 lbs. (15.3 kg)

\*IEC 705-88 Test Procedure used  
Specifications subject to change without notice.

# 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:

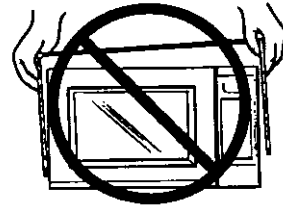
**WARNING**—To reduce the risk of burns, electric shock, fire, injury to persons or exposure to excessive microwave energy:

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 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.

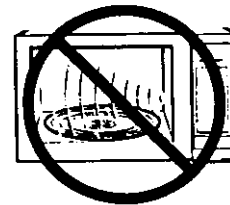
- (c) If materials inside the oven should ignite, keep oven door closed, turn oven off, and disconnect the power cord, or shut off power at the fuse or circuit breaker panel.
- (d) Do not use the cavity for storage purposes.  
Do not leave paper products, cooking utensils, or food in the cavity when 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** use this oven to heat chemicals or any other non-food products. **DO NOT** clean this oven with any product that is labeled as containing corrosive chemicals. **The heating of corrosive chemicals in this oven can cause radiation leaks.**
4. **DO NOT** dry clothes, newspapers or other materials in oven, or use newspapers or paper bags for cooking. Fire could result.
5. **DO NOT** use recycled paper products unless the paper product is labeled as safe for microwave oven use. Recycled paper products may contain impurities which may cause sparks, and result in fires when used.
6. **DO NOT** hit or strike control panel. Damage to controls may occur. Fire could result.
7. **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.
8. **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.**

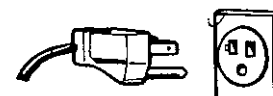
Consult a qualified electrician or service person if the grounding instructions are not completely understood or if doubt exists as to whether the appliance is properly grounded. If it is necessary to use an extension cord, use only a three wire extension cord that has a three blade grounding plug, and 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.

# 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) 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, 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.

#### 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 (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.

#### 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 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.

#### 10) THERMOMETERS

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

#### 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 to be only warm while the interior can be so hot as to burn the infant's mouth and esophagus.

#### 12) REHEATING PASTRY PRODUCTS

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

#### 13) GENERAL OVEN USAGE GUIDELINES

- **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 <b>CONTAINER TEST</b> 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 3/4-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 3/4-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 <b>CONTAINER TEST</b> 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.

# 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:

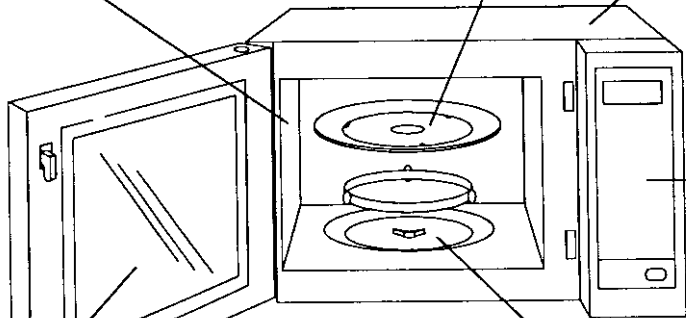
Wipe with a damp cloth. Mild detergent may be used if the oven gets very dirty. The use of harsh detergents or abrasives is not recommended.

### 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 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)

### PART NUMBER

B00034Q6AAQ  
 B000B8250AP  
 A06015690QP (MQS1095) ·  
 A06014000AP (MQS1395) ·  
 B290D8940AP (MQS1095) ·  
 B290D9330AP (MQS1395) ·

### PRICE

①  
 \$9.49 ·  
 18.79 ·  
 24.31 ·  
 8.43 ·  
 10.99 ·

For pricing quotes, call or write the Parts & Literature Department at the phone or address listed below. Please have your credit card information readily available.

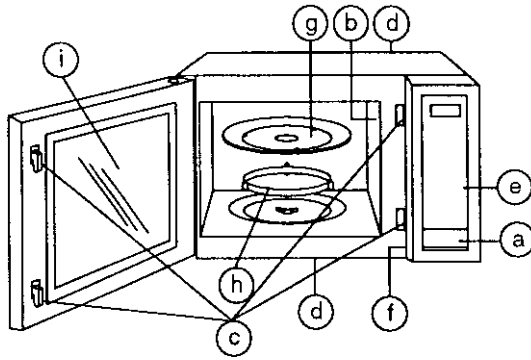
*Shipping & handling are not included. Price & availability subject to change. Sorry, no COD's.*

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

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



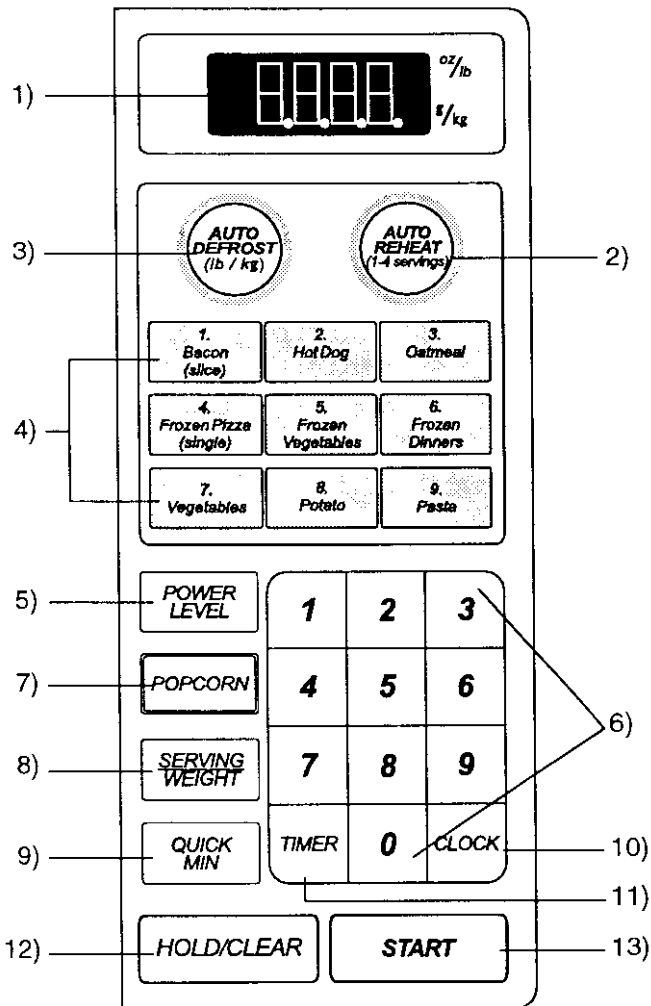
# Feature Diagram



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

*HEAT/VA*

# Control Panel



- 1) Display Window *Bold It!*
- 2) **AUTO REHEAT** Pad (*p 10*)
- 3) **AUTO DEFROST** Pad (*p 10*)
- 4) Auto Cook Pads (*p 11*)
- 5) **POWER LEVEL** Pad (*p 8*)
- 6) Number Pads
- 7) **POPCORN** Pad (*p 9*)
- 8) **SERVING/WEIGHT** Pad (*p 11*)
- 9) **QUICK MIN** Pad (*p 10*)
- 10) **CLOCK** Pad (*p 11*)
- 11) **TIMER** Pad (*p 11*)
- 12) **HOLD/CLEAR** Pad

Before cooking: One tap clears your instruction.  
 During cooking: One tap temporarily stops the cooking process. A second tap cancels all your instructions and the time of day or dot appears in the **Display Window**.

13) **START** Pad  
 One tap allows oven to begin functioning. If door is opened or **HOLD/CLEAR** Pad is pressed once during oven operation, **START** Pad must be pressed again to restart oven.

**Door Release Button (a)**  
 Just press it to open the door. If the door is opened during the cooking process, the cooking process will pause. Cooking will resume as soon as the door is closed and the **START** Pad is pressed. The oven light will stay on or will turn on whenever the door is opened.

**Beep Sound**  
 When a pad is pressed correctly, a beep will be heard. If a pad is pressed and no beep is heard, the unit did not or cannot accept the instruction. The oven will beep twice between programmed stages. At the end of any completed program, the oven will beep 5 times.

## Let's Start to Use Your Oven!

1. Plug into a properly grounded electrical outlet.



The oven automatically displays weights in imperial (oz/lb).

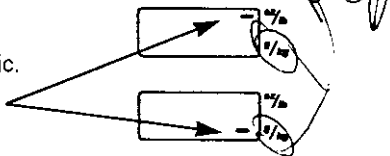
**Display Window**

88.88 <sup>oz</sup>/<sub>lb</sub>

2. If you wish to use metric (g/kg):



Press **Start** to convert to metric. Verify your selection in the **Display Window**.



3. **Stop/Reset** Press. Dot appears in **Display Window**.



Now enjoy cooking with your Panasonic microwave.

## Clock

This feature allows you to display the time of day. The oven will operate without setting the clock.



**Example: To set 12:34 AM or PM.**

Press **Clock** pad.

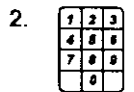
**Display Window**



Press.



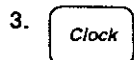
Dot flashes.



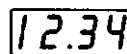
Enter time of day using number pads.



Dot continues flashing.



Press **Clock** again to set time of day.



Dot stops flashing.

### NOTES:

1. To reset the clock, repeat step 1 through 3.
2. The Clock will retain the Time of Day as long as electricity is supplied.
3. Clock is a 12 hour display.
4. Oven will not operate while dot is flashing.

## Manual Operation (Power & Time Setting)

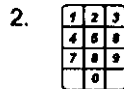
This feature allows you to manually set the power and time for microwave cooking.

Press **Power Level** pad until desired power appears in the **Display Window**. See Chart below.

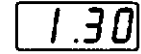
**Example: To cook at MEDIUM Power for 1 minute 30 seconds.**



Press four times.



Enter cooking time using number pads.

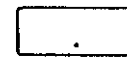


Press.

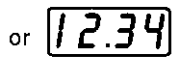
**Display Window** counts down.



4. At the end of cooking, five beeps sound and



Dot



or Time of day appears.

Press <b>Power Level</b>	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:

1. For more than one stage cooking, repeat steps 1 & 2 for each stage of cooking before pressing **Start** pad. Maximum number of stages for cooking is 3 stages.
2. When selecting P100 (HIGH) power for the first stage, you may begin at step 2.
3. Two beeps will sound between each stage of programming. Five beeps will sound at the end of the entire sequence.
4. When selecting P100 (HIGH) power, the maximum time recommended is 99 minutes 99 seconds.
5. For reheating, use P100 (HIGH) for liquids, P 70 (MEDIUM-HIGH) for most foods and P 50 (MEDIUM) for dense foods.

# Timer

This feature allows you to:

- 1) Use it as a **Kitchen TIMER**.
- 2) Program **STAND time** after cooking is completed.
- 3) Program **DELAY** time for beginning cooking.

### To Set TIMER:

1. **Display Window** goes blank.

Press once.

2. Enter time using Number pads (up to 99 minutes and 99 seconds).

**Display Window**

### To Activate TIMER Program:

3. **Timer** will count down. No cooking will occur.

Press once.

**Display Window**

4. At the end of the time, 5 beeps sound and or

Dot                      Time of day appears.

### NOTES:

1. When the first/second stage has finished, a two beep signal sounds. At the end of the program, the oven will beep five times.
2. If oven door is opened during the TIMER/DELAY/STAND Time, the time in the **Display Window** will continue to count down.
3. DELAY Start cannot be programmed before any Auto Control Feature. This is to prevent the starting temperature of the food from rising before defrosting or cooking begins. A change in the starting temperature would cause inaccurate cooking results.
4. Timer can be set up to 99 minutes and 99 seconds.

### To Set DELAY Time:

→ → →

Press once.      Enter DELAY time using number pads.      Press.

\* Cooking will start after DELAY time has expired.

### To Set STAND Time:

→ → →

Press once.      Enter STAND time using number pads.      Press.

\* STAND time will count down after cooking occurs.

# Popcorn Pad

For use with prepackaged Popcorn bags.

**Example: To pop 3.0 oz. package of microwave popcorn.**

Press **Popcorn** pad until package weight appears in the **Display Window**. See Chart below.

**Display Window**

1. Verify packaged weight.

Press twice.

2. Cooking time appears.

Press. **Display Window** counts down.

3. At the end of cooking, five beeps sound and or

Dot                      Time of day appears.

Press Popcorn pad	Popcorn package	Time
once	3.5 oz. (99 g)	will vary depending on size and wattage of oven
twice	3.0 oz. (90 g)	
three times	1.75 oz. (50 g)	

### NOTES:

1. Popcorn packages should be at room temperature.
2. Place bag in oven according to manufacturer's directions.
3. Pop **one** bag at a time.
4. After popping, allow bag to cool. Carefully open bag away from face and body, since popcorn and steam are extremely hot.
5. **NEVER** leave the oven unattended when popping popcorn.
6. Do not reheat unpopped kernels or reuse bag.

**CAUTION:** If prepackaged popcorn is of a different weight than the recommended weight, do not use the preset popcorn settings. Set Power Level and Time according to the manufacturer's instructions.





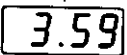

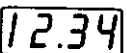
## Auto Reheat

This feature allows you to reheat up to 4 servings.

**Auto Reheat**

**Example: To reheat 2 servings.**

Press **Auto Reheat** pad until desired number of servings appears in the **Display Window**. See Chart below.

1. **Auto Reheat** **Display Window**  
 
- Press 2 times (2x).
2. **Start** **Display Window**  
 Cooking time appears.   
Press. **Display Window**  
counts down. 
3. At the end of cooking  or   
Dot Time of day appears.

Press <b>Auto Reheat</b> pad to indicate number or servings	Average Serving Size	Time
once	4 - 6 oz.	will vary depending on size and wattage of oven
twice	8 oz.	
three times	12 oz.	
four times	16 oz.	

**NOTES:** 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 using **Auto Reheat**. Use manual power and time instead.
5. **DO NOT** reheat beverages.
6. Times are based on an approximate serving size of 4 oz..
7. A plate of food is normally 3 - 4 servings.

*Use Start button*




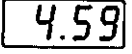


*on page 10*

## Quick Min

This feature allows you to set and/or add cooking times easily in multiples of one minute.

To Set Cooking Time:

**Example: 5 minutes**

1. **Quick Min** **Display Window**  
 Set cooking time. Power level is P100 (HIGH)   
Press. (up to 10) ↓
2. **Start** **Display Window**  
 Cooking begins and **Display Window** counts down. 
3. At the end of cooking, 5 beeps sound and  or   
Dot Time of day appears.

**NOTES:**

1. To use with other power levels, Press **Power Level**, then **Quick Min**.
2. If you use **Quick Min**, you can not use the Number Pads or vice versa.
3. Press **Quick Min** to add more time during cooking. To verify the additional cooking time, check the **Display Window**.

*Q.M. 4 DIGIT*

## Child Safety Lock

This feature prevents the electronic operation of the oven until cancelled. It does **not** lock the door.

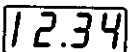
**To Set:**

1. **Start** **Display Window**  
 "Child" appears in **Display Window**. 

Press three times (3 x's).

- \* "Child" continues to be displayed until Child Lock is cancelled.
- \* Keypads may be pressed but the microwave will not start.

**To Cancel:**

1. **Stop / Reset** **Display Window**  
 or 

Press three times (3 x's).



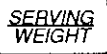
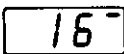

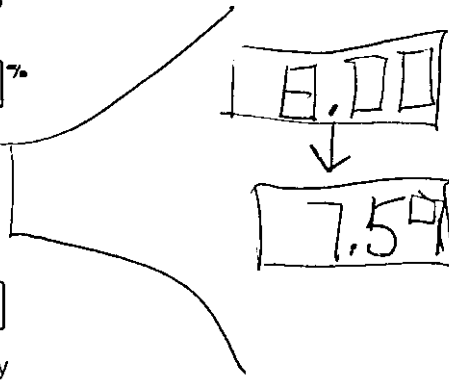
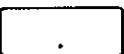
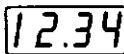
- \* The **Display Window** will return to Dot or Time of Day when Child Lock has been cancelled.

# Auto Cook Pads

This feature allows you to cook most of your favorite foods without setting either the power or the time. These are tested and pre-timed for the quantity of food listed in the chart below. Locale, power fluctuations and tastes are not taken into account. Should you prefer your food cooked differently, use the Power and Time method shown on page 8.

Example: To cook 16 oz of Mixed Frozen Vegetables.

Display Window

1.  Press. 
2.  Verify Serving/Weight in *Display Window*.   
Press three times.
3.  Cooking time appears in *Display Window*, and begins to count down. 

4. At the end of cooking sequence  or  Time of day appears.

The following are the recommended servings/weights:

CATEGORY	SERVING/WEIGHT	HINTS
1. <i>Bacon (slice)</i>	2,3,4,6 slices	Use ridged dish. Cover with paper towel.
2. <i>Hot Dog</i>	1,2,3,4 pieces	Pierce skin.
3. <i>Oatmeal</i>	1,2 servings	Follow manufacturers' directions for amount of liquid, covering or stirring.
4. <i>Frozen Pizza (single)</i>	4, 8 oz. (110, 225 g)	Follow manufacturers' directions.
5. <i>Frozen Vegetables</i>	5, 10, 16 oz. (140, 280, 450 g)	Follow manufacturers' directions. Do not salt until after cooking. Use less water than suggested.
6. <i>Frozen Dinners</i>	11, 15 oz. (300, 430 g)	Follow manufacturers' directions.
7. <i>Vegetables</i>	4, 8, 12, 16 oz. (110, 225, 340, 450g)	All pieces should be the same size. Add water, cover with lid or vented plastic wrap.
8. <i>Potato</i>	1,2,3,4 pieces (6 - 8 oz. each)	Pierce skin with fork.
9. <i>Pasta</i>	2 oz. (60 g) (add 3 cups water) 4 oz. (110 g) (add 4 cups water) 6 oz. (170 g) (add 6 cups water) 8 oz. (225 g) (add 7 cups water)	Add water as indicated. Cover with lid or vented plastic wrap.

# Defrosting Tips & Techniques

## Before Freezing:

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 (labeled "For Freezer") or freezer paper.
3. Remove as much air as possible, i.e. create a vacuum.
4. Seal securely, date and label.

## To Defrost:

1. Remove wrapper. This helps moisture to evaporate.  
Juices from food can get hot and cook the food.
2. Set food on microwave safe roasting rack in an appropriately sized dish.
3. Place roasts fat-side down. Place whole poultry breast-side down.
4. Drain liquids during defrosting.
5. Turn over (invert) items during defrosting.
6. Shield edges and ends if needed. (See **Cooking Techniques**).
7. Select power and minimum time so that items will be under-defrosted.

## After Defrosting:

1. Large items may be icy in the center. Defrosting will complete during Standing Time.
2. Let stand, covered with plastic wrap, in the refrigerator for time shown in the chart below.
3. See chart below for standing time and rinsing directions.
4. Items which have been layered should be rinsed separately or have a longer stand time.

FOOD	DEFROST TIME (min. per pound)	DURING DEFROSTING	AFTER DEFROSTING	
			Stand Time	Rinse
<b>Fish and Seafood</b> [up to 3 <del>lb</del> (1.4 kg)]			5 min.	NO
Crabmeat	12 to 14	Break apart		
Fish Steaks	6 to 10	Turn over		
Fish Fillets	6 to 8	Turn over/Rearrange		
Sea Scallops	14 to 16	Break apart/Remove defrosted pieces		
Shrimp medium	8 to 10	Break apart/Remove defrosted pieces		
Whole fish	10 to 12	Turn over		YES
<b>Meat</b>			5 min.	NO
Ground Meat	8 to 10	Turn over/Remove defrosted portion/Shield edges		
Roasts [2½ - 4 <del>lb</del> (1.1 - 1.8 kg)]	8 to 12	Turn over/Shield ends and defrosted surface		
Chops/Steak	8 to 10	Separate/Turn over/Rearrange		
Ribs/T-bone	8 to 10	Turn over/Shield		
Stew Meat	10 to 12	Break apart/Shield		
Liver (thin sliced)	8 to 10	Drain liquid/Turn over/Separate pieces		
Bacon	4 to 6	Turn over		
<b>Poultry</b>			30 min. in refrig	YES
Chicken, Whole [up to 3 <del>lb</del> (1.4 kg)]	6 to 10	Turn over 2 or 3 times/Shield defrosted parts		
Cutlets	6 to 8	Turn over		
Pieces	8 to 10	Separate		
Cornish Hens	8 to 12	Turn over/Rearrange		
Turkey Breast [5 - 6 <del>lb</del> (2.3 - 2.7 kg)]	8 to 12	Turn over 2 to 3 times	30 min. in refrig	YES

~~A~~ B

Notes

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~~A~~

# 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 light dims.

When cooking with a power other than P100 (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 word "**LOCK**" or "**Child**" appears in the *Display Window*.



The CHILD LOCK was activated by pressing **Start** pad 3 times.

Deactivate LOCK by pressing **Stop/Reset** pad 3 times.

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**.



# Warranty & Service

## PANASONIC/QUASAR MICROWAVE OVEN LIMITED WARRANTY

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will repair this product with new or refurbished parts in exchange for defective parts, free of charge, in the USA or Puerto Rico from the date of original purchase in the event of a defect in materials or workmanship as follows (all time periods start from the date of original purchase):

**Parts** - one (1) year (except magnetron).

**Magnetron Tube** - five (5) years.

**Labor** - one (1) year on all parts (including, without limitations, magnetron tube). After the labor warranty has expired, the purchaser pays for all labor charges for removal and installation of parts (including, without limitation, magnetron tube).

Carry-in or mail-in service in the USA or Puerto Rico can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Servicenter Directory. Or call, toll free, **1-800-211-PANA** to locate a PASC authorized Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the Panasonic Sales Company telephone number listed in the Servicenter Directory.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty service is rendered.

This warranty only covers failures due to defects in materials or workmanship which occur during normal use and does not cover glass, plastic parts, temperature probes (if included), and the exterior and interior finish. The warranty does not cover damages which occur in shipment, or failures which are caused by products not supplied by the warrantor, or

failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, faulty installation, improper set-up adjustments, operation and/or maintenance, or alteration, modification, power line surge, improper voltage supply, lightning damage, or commercial use such as hotel, office, restaurant or other business or rental use of the product, or service by anyone other than a PASC Factory Servicenter or a PASC authorized Servicenter, or damage that is attributable to acts of God.

## LIMITS AND EXCLUSIONS

There are no express warranties except as listed above. THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Customer Satisfaction Center.

**Web Site: <http://www.Panasonic.com>**  
 You can purchase parts, accessories or locate your nearest servicenter by visiting our Web Site.

### Factory Servicenters Locations

**CALIFORNIA**  
 6550 Katella Ave.  
 Cypress, CA 90630

800 Dubuque Ave.  
 S. San Francisco,  
 CA 94080

20201 Sherman Way  
 Suite 102  
 Canoga Park, CA 91306

3878 Ruffin Rd., Suite A  
 San Diego, CA 92123

**COLORADO**  
 1640 South Abilene Street  
 Suite D  
 Aurora, CO 80012

**FLORIDA**  
 3700 North 29th Ave.  
 Suite 102  
 Hollywood, FL 33020

**GEORGIA**  
 8655 Roswell Road  
 Suite 100  
 Atlanta, GA 30350

**ILLINOIS**  
 9060 Golf Road  
 Niles, IL 60714

1703 N. Randall Road  
 Elgin, IL 60123  
 (Pick up/Drop off only)

**MARYLAND**  
 62 Mountain Road  
 Glen Burnie, MD 21061

**MASSACHUSETTS**  
 60 Glacier Drive, Suite G  
 Westwood, MA 02090

**MICHIGAN**  
 37048 Van Dyke Ave.  
 Sterling Hts., MI 48312

**MINNESOTA**  
 7850-12th Ave. South  
 Airport Business Center  
 Bloomington, MN 55425

**OHIO**  
 2236 Waycross Road  
 Civic Center Plaza  
 Forest Park, OH 45240

**PENNSYLVANIA**  
 2221 Cabot Blvd. West  
 Suite B  
 Langhorne, PA 19047

Chartiers Valley  
 Shopping Center  
 1025 Washington Pike  
 Bridgeville, PA 15017

**TENNESSEE**  
 3800 Ezell Road  
 Suite 806  
 Nashville, TN 37211

**TEXAS**  
 7482 Harwin Drive  
 Houston, TX 77036

13615 Welch Road  
 Suite 101  
 Farmers Branch,  
 TX 75244

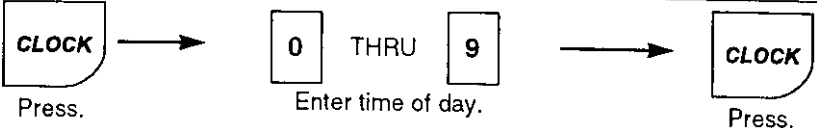
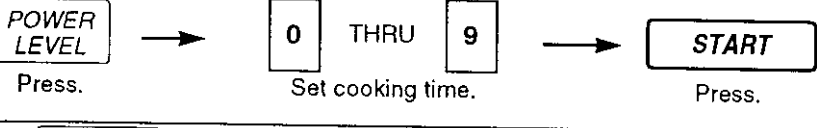
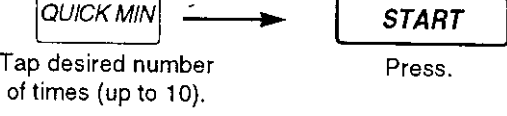
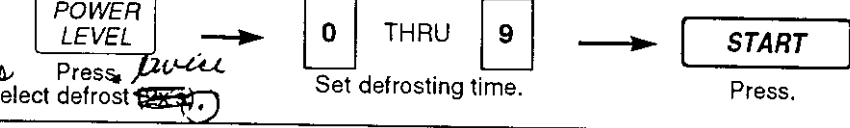
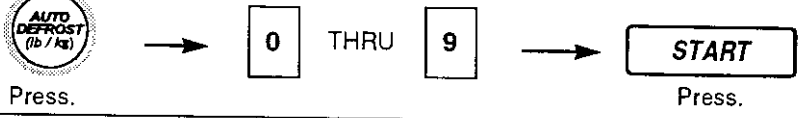
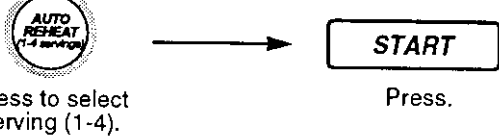
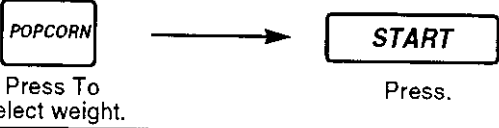
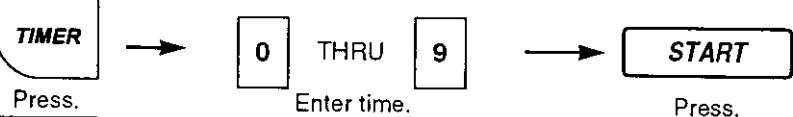
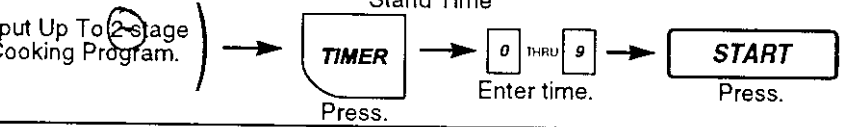
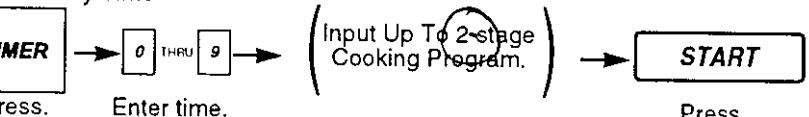
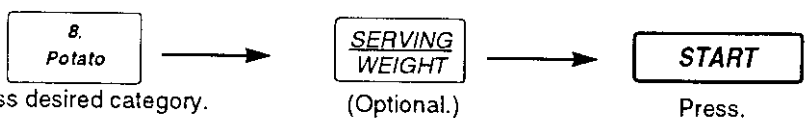

**WASHINGTON**  
 20425-84th Ave. South  
 Kent, WA 98032

**HAWAII**  
 99-859 Iwaiwa Street  
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 Phone (808) 488-1996  
 Fax (808) 486-4639

### Service in Puerto Rico

**Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company / Factory Servicenter**  
 Ave. 65 de Infanteria, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985  
 Phone (787) 750-4300 Fax (787) 768-2910

# Quick Guide to Operation

Feature	How to Operate
To Set <b>CLOCK</b> (page 8)	 <p>Press. Enter time of day. Press.</p>
Power and Time Setting (page 8)	 <p>Press. Set cooking time. Press.</p>
To Cook using <b>QUICK MIN</b> (page 8)	 <p>Tap desired number of times (up to 10). Press.</p>
To Defrost using Manual Defrost (page 8)	 <p>Press. Select defrost. Set defrosting time. Press.</p>
To Defrost using <b>AUTO DEFROST</b> (page 14)	 <p>Press. Press. Set defrosting time. Press.</p>
To Reheat using <b>AUTO REHEAT</b> (page 10)	 <p>Press to select serving (1-4). Press.</p>
To Cook using <b>POPCORN</b> (page 9)	 <p>Press To Select weight. Press.</p>
To use as a <b>TIMER</b> (page 9)	 <p>Press. Enter time. Press.</p>
To set Standing Time (page 9)	 <p>Stand Time. Press. Enter time. Press.</p>
To Set Delay Start (page 9)	 <p>Delay Time. Press. Enter time. Press. Press.</p>
To Cook using <b>Auto Cook Pad(s)</b> (page 12)	 <p>Press desired category. (Optional). Press.</p>
To use Child Safety Lock (page 10)	 <p>To set: Press 3 Times. To cancel: Press 3 times.</p>