

# SHARP®

## MICROWAVE OVEN OPERATION MANUAL

Carousel®

### MODELS

**R-310J, R-309J, R-308J**

followed by letter indicating color  
K=black, W=white, S=silver

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READ ALL INSTRUCTIONS CAREFULLY BEFORE USING THE OVEN.

# IMPORTANT SAFETY INSTRUCTIONS

When using electrical appliances 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"** on inside front cover.
3. This appliance must be grounded. Connect only to properly grounded outlet. See **"GROUNDING INSTRUCTIONS"** on page 3.
4. Install or locate this appliance only in accordance with the provided installation instructions.
5. Some products such as whole eggs and sealed containers—for example, closed glass jars—are able to explode and should not be heated in this oven.
6. Use this appliance only for its intended use as described in this manual. Do not use corrosive chemicals or vapors in this appliance. This type of oven is specifically designed to heat, cook or dry food. It is not designed for industrial or laboratory use.
7. As with any appliance, close supervision is necessary when used by children.
8. 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.
9. This appliance should be serviced only by qualified service personnel. Contact nearest Sharp Authorized Servicer for examination, repair or adjustment.
10. Do not cover or block any openings on the appliance.
11. 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, near a swimming pool or similar locations.
12. Do not immerse cord or plug in water.
13. Keep cord away from heated surfaces.
14. Do not let cord hang over edge of table or counter.
15. See door surface cleaning instructions on page 17.
16. To reduce the risk of fire in the oven cavity:
  - a. Do not overcook food. Carefully attend appliance when 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 ignite, keep oven door closed, turn oven off and disconnect the power cord or shut off power at the fuse or circuit breaker panel.**
  - d. Do not use the cavity for storage purposes. Do not leave paper products, cooking utensils or food in the cavity when not in use.
17. Liquids, such as water, coffee or tea are able to be overheated beyond the boiling point without appearing to be boiling. Visible bubbling or boiling when the container is removed from the microwave oven is not always present. **THIS COULD RESULT IN VERY HOT LIQUIDS SUDDENLY BOILING OVER WHEN A SPOON OR OTHER UTENSIL IS INSERTED INTO THE LIQUID.** To reduce the risk of injury to persons:
  - a. Do not overheat the liquid.
  - b. Stir the liquid both before and halfway through heating it.
  - c. Do not use straight-sided containers with narrow necks. Use a wide-mouthed container.
  - d. After heating, allow the container to stand in the microwave oven at least for 20 seconds before removing the container.
  - e. Use extreme care when inserting a spoon or other utensil into the container.
18. If the oven light fails, consult a SHARP AUTHORIZED SERVICER.

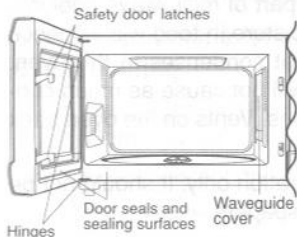
## SAVE THESE INSTRUCTIONS

# UNPACKING AND INSTALLATION INSTRUCTIONS

## Unpacking and Examining Your Oven

Remove:

1. all packing materials from inside the oven cavity; however, **DO NOT REMOVE THE WAVEGUIDE COVER**, which is located on the right cavity wall. Read enclosures and **SAVE** the Operation Manual.



2. the feature sticker, if there is one, from the outside of the door.

Check the oven for any damage, such as misaligned or bent door, damaged door seals

and sealing surfaces, broken or loose door hinges and latches and dents inside the cavity or on the

door. If there is any damage, do not operate the oven and contact your dealer or SHARP AUTHORIZED SERVICER.

## Choosing a Location for Your Oven

You will use the oven frequently so plan its location for ease of use. It's wise, if possible, to have counter space on at least one side of the oven. Allow at least 2 inches on the sides, top and at the rear of the oven for air circulation. Do not place or install the oven in any area where heat and steam are generated; for example, next to or above a conventional gas or electric range or above a conventional wall oven. Heat and steam may damage the electronics or the mechanical parts of the oven.

## GROUNDING INSTRUCTIONS

This appliance must be grounded. This oven is equipped with a cord having a grounding wire with a grounding plug. It must be plugged into a wall receptacle that is properly installed and grounded in accordance with the National Electrical Code and local codes and ordinances. In the event of an electrical short circuit, grounding reduces risk of electric shock by providing an escape wire for the electric current.

**WARNING** – Improper use of the grounding plug can result in a risk of electric shock.

### Electrical Requirements

The electrical requirements are a 120 volt 60 Hz, AC only, 15 amp. or more protected electrical supply. It is recommended that a separate circuit serving only this appliance be provided.

The oven is equipped with a 3-prong grounding plug. It must be plugged into a wall receptacle that is properly installed and grounded. Should you only have a 2-prong outlet, have a qualified electrician install a correct wall receptacle.

A 3-prong adapter may be purchased and used temporarily if local codes allow. Follow package directions.

A short power-supply cord is provided to reduce risk of becoming entangled in or tripping over a longer cord.

### Extension Cord

If it is necessary to use an extension cord, use only a 3-wire extension cord that has a 3-blade grounding plug and a 3-slot receptacle that will accept the plug on the microwave oven. The marked rating of the extension cord should be AC 115-120 volt, 15 amp. or more.

Be careful not to drape the cord over the countertop or table where it can be pulled on by children or tripped over accidentally.

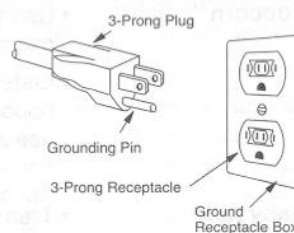
**Notes:** 1. If you have any questions about the grounding or electrical instructions, consult a qualified electrician or service person.

2. Neither Sharp nor the dealer can accept any liability for damage to the oven or personal injury resulting from failure to observe the correct electrical connection procedures.

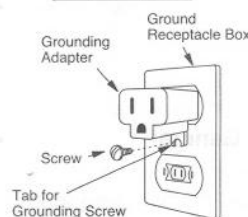
### Radio or TV Interference

Should there be any interference caused by the microwave oven to your radio or TV, check that the microwave oven is on a different electrical circuit, relocate the radio or TV as far away from the oven as feasible or check position and signal of receiving antenna.

#### Permanent and Correct Installation



#### Temporary Use





# INFORMATION YOU NEED TO KNOW

## ABOUT YOUR OVEN

This Operation Manual is valuable: read it carefully and always save it for reference.

A good microwave cookbook is a valuable asset. Check it for microwave cooking principles, techniques, hints and recipes. See pages 19 and 20 for ordering the Ultimate Accessory, the SHARP CAROUSEL MICROWAVE COOKBOOK.

**NEVER** use the oven without the turntable and support nor turn the turntable over so that a large dish could be placed in the oven. The turntable will turn both clockwise and counterclockwise.

**ALWAYS** have food in the oven when it is on to absorb the microwave energy.

When using the oven at power levels below 100%, you

may hear the magnetron cycling on and off. It is normal for the exterior of the oven to be warm to the touch when cooking or reheating.

Condensation is a normal part of microwave cooking. Room humidity and the moisture in food will influence the amount of moisture that condenses in the oven. Generally, covered foods will not cause as much condensation as uncovered ones. Vents on the oven back must not be blocked.

The oven is for food preparation only. It should not be used to dry clothes or newspapers.

Your oven is rated 1100 watts (R-308J, R-309J) or 1200 watts (R-310J) by using the IEC Test Procedure. In using recipes or package directions, check food a minute or two before the minimum time and add time accordingly.

## ABOUT FOOD

FOOD	DO	DON'T
Eggs, sausages, nuts, seeds fruits & vegetables	<ul style="list-style-type: none"> <li>Puncture egg yolks before cooking to prevent "explosion".</li> <li>Pierce skins of potatoes, apples, squash, hot dogs and sausages so that steam escapes.</li> </ul>	<ul style="list-style-type: none"> <li>Cook eggs in shells.</li> <li>Reheat whole eggs.</li> <li>Dry nuts or seeds in shells.</li> </ul>
Popcorn	<ul style="list-style-type: none"> <li>Use specially bagged popcorn for the microwave oven.</li> <li>Listen while popping corn for the popping to slow to 1 or 2 seconds or use special <b>POPCORN</b> pad.</li> </ul>	<ul style="list-style-type: none"> <li>Pop popcorn in regular brown bags or glass bowls.</li> <li>Exceed maximum time on popcorn package.</li> </ul>
Baby food	<ul style="list-style-type: none"> <li>Transfer baby food to small dish and heat carefully, stirring often. Check temperature before serving.</li> <li>Put nipples on bottles after heating and shake thoroughly. "Wrist" test before feeding.</li> </ul>	<ul style="list-style-type: none"> <li>Heat baby food in original jars.</li> <li>Heat disposable bottles.</li> <li>Heat bottles with nipples on.</li> </ul>
General	<ul style="list-style-type: none"> <li>Cut baked goods with filling after heating to release steam and avoid burns.</li> <li>Stir liquids briskly before heating and allow to stand at least for 20 seconds after heating before stirring or drinking to avoid eruption.</li> <li>Use deep bowl, when cooking liquids or cereals, to prevent boilovers.</li> </ul>	<ul style="list-style-type: none"> <li>Heat or cook in closed glass jars or air tight containers.</li> <li>Can in the microwave as harmful bacteria may not be destroyed.</li> <li>Deep fat fry.</li> <li>Dry wood, gourds, herbs or wet papers.</li> </ul>

## ABOUT UTENSILS AND COVERINGS

It is not necessary to buy all new cookware. Many pieces already in your kitchen can be used successfully in your new microwave oven. Make sure the utensil does not touch the interior walls during cooking.

### Use these utensils for safe microwave cooking and reheating:

- glass ceramic (Pyroceram®), such as Corningware®.
- heat-resistant glass (Pyrex®)
- microwave-safe plastics
- paper plates
- microwave-safe pottery, stoneware and porcelain
- browning dish (Do not exceed recommended preheating time. Follow manufacturer's directions.)

### These items can be used for short time reheating of foods that have little fat or sugar in them:

- wood, straw, wicker

### DO NOT USE

- metal pans and bakeware
- dishes with metallic trim
- non-heat-resistant glass
- non-microwave-safe plastics (margarine tubs)
- recycled paper products
- brown paper bags
- food storage bags
- metal twist-ties

Should you wish to check if a dish is safe for microwaving, place the empty dish in the oven and microwave on HIGH for 30 seconds. A dish which becomes very hot should not be used.

### The following coverings are ideal:

- Paper towels are good for covering foods for reheating and absorbing fat while cooking bacon.
- Wax paper can be used for cooking and reheating.
- Plastic wrap that is specially marked for microwave use can be used for cooking and reheating. DO NOT allow plastic wrap to touch food. Vent so steam can escape.
- Lids that are microwave-safe are a good choice because heat is kept near the food to hasten cooking.
- Oven cooking bags are good for large meats or foods that need tenderizing. DO NOT use metal twist ties. Remember to slit bag so steam can escape.

### How to use aluminum foil in your microwave oven:

- Small flat pieces of aluminum foil placed smoothly on the food can be used to shield areas that are either defrosting or cooking too quickly.
- Foil should not come closer than one inch to any surface of the oven.

Should you have questions about utensils or coverings, check a good microwave cookbook or follow recipe suggestions.

**ACCESSORIES** There are many microwave accessories available for purchase. Evaluate carefully before you purchase so that they meet your needs. A microwave-safe thermometer will assist you in determining correct doneness and assure you that foods have been cooked to safe temperatures. Sharp is not responsible for any damage to the oven when accessories are used.

## ABOUT CHILDREN AND THE MICROWAVE

Children below the age of 7 should use the microwave oven with a supervising person very near to them. Between the ages of 7 and 12, the supervising person should be in the same room.

The child must be able to reach the oven comfortably; if not, he/she should stand on a sturdy stool.

At no time should anyone be allowed to lean or swing on the oven door.

Children should be taught all safety precautions: use potholders, remove coverings carefully, pay special attention to packages that crisp food because they may be extra hot.

Don't assume that because a child has mastered one cooking skill he/she can cook everything.

Children need to learn that the microwave oven is not a toy. See page 16 for Child Lock feature.

## ABOUT MICROWAVE COOKING

- Arrange food carefully. Place thickest areas towards outside of dish.
- Watch cooking time. Cook for the shortest amount of time indicated and add more as needed. Food severely overcooked can smoke or ignite.
- Cover foods while cooking. Check recipe or cookbook for suggestions: paper towels, wax paper, microwave plastic wrap or a lid. Covers prevent spattering and help foods to cook evenly.
- Shield with small flat pieces of aluminum foil any thin areas of meat or poultry to prevent overcooking before dense, thick areas are cooked thoroughly.
- Stir foods from outside to center of dish once or twice during cooking, if possible.
- Turn foods over once during microwaving to speed cooking of such foods as chicken and hamburgers. Large items like roasts must be turned over at least once.
- Rearrange foods such as meatballs halfway through cooking both from top to bottom and from the center of the dish to the outside.
- Add standing time. Remove food from oven and stir, if possible. Cover for standing time which allows the food to finish cooking without overcooking.
- Check for doneness. Look for signs indicating that cooking temperatures have been reached.

### Doneness signs include:

- Food steams throughout, not just at edge.
- Center bottom of dish is very hot to the touch.
- Poultry thigh joints move easily.
- Meat and poultry show no pinkness.
- Fish is opaque and flakes easily with a fork.

## ABOUT SAFETY

- Check foods to see that they are cooked to the United States Department of Agriculture's recommended temperatures.

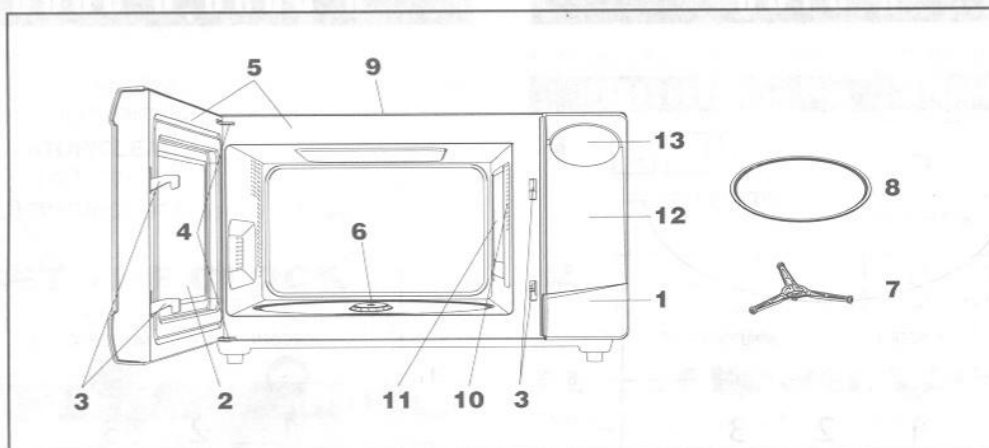
TEMP	FOOD
160°F	... for fresh pork, ground meat, boneless white poultry, fish, seafood, egg dishes and frozen prepared food.
165°F	... for leftover, ready-to-reheat refrigerated, and deli and carry-out "fresh" food.
170°F	... white meat of poultry.
180°F	... dark meat of poultry.

To test for doneness, insert a meat thermometer in a thick or dense area away from fat or bone. NEVER leave the thermometer in the food during cooking, unless it is approved for microwave oven use.

- ALWAYS use potholders to prevent burns when handling utensils that are in contact with hot food. Enough heat from the food can transfer through utensils to cause skin burns.
- Avoid steam burns by directing steam away from the face and hands. Slowly lift the farthest edge of a dish's covering and carefully open popcorn and oven cooking bags away from the face.
- Stay near the oven while it's in use and check cooking progress frequently so that there is no chance of overcooking food.
- NEVER use the cavity for storing cookbooks or other items.
- Select, store and handle food carefully to preserve its high quality and minimize the spread of foodborne bacteria.
- Keep waveguide cover clean. Food residue can cause arcing and/or fires.
- Use care when removing items from the oven so that the utensil, your clothes or accessories do not touch the safety door latches.

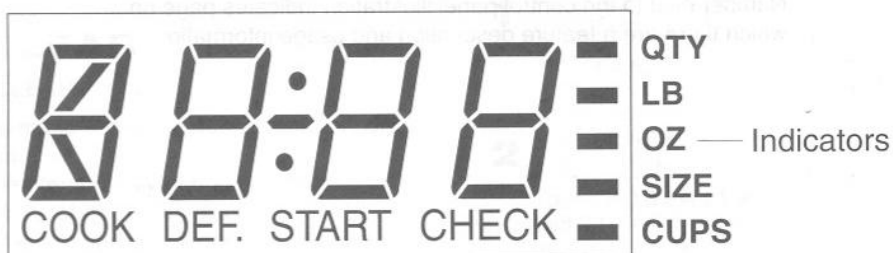
# PART NAMES

## MICROWAVE OVEN PARTS



- |   |   |
|---|---|
| <p><b>1</b> Door opening button<br/>Push to open door.</p> <p><b>2</b> Oven door with see-through window</p> <p><b>3</b> Safety door latches<br/>The oven will not operate unless the door is securely closed.</p> <p><b>4</b> Door hinges</p> <p><b>5</b> Door seals and sealing surfaces</p> <p><b>6</b> Turntable motor shaft</p> <p><b>7</b> Removable turntable support<br/>Carefully place the turntable support in the center of the oven floor.</p> | <p><b>8</b> Removable turntable<br/>Place the turntable on the turntable support securely. The turntable will rotate clockwise or counterclockwise. Only remove for cleaning.</p> <p><b>9</b> Ventilation openings (Rear)</p> <p><b>10</b> Oven light<br/>It will light when oven is operating or door is open.</p> <p><b>11</b> Waveguide cover: <b>DO NOT REMOVE.</b></p> <p><b>12</b> Auto-Touch control panel</p> <p><b>13</b> Time display: 99 minutes, 99 seconds</p> |
|---|---|

## DISPLAY



The light next to each indicator will come on to provide information about the setting. Words in the lower portion of the display will light to indicate what function is in process.



## BEFORE OPERATING

- Before operating your new microwave oven make sure you read and understand this operation manual completely.
- Before the oven can be used, follow these procedures:
  - Plug in the oven. Close the door. The oven display will then begin flashing **88:88**.
  - Touch **STOP/CLEAR** pad. **:** will appear.
  - Touch **TIMER/CLOCK** pad to set clock.

## TO SET THE CLOCK

- Suppose you want to enter the correct time of day 12:30 (A.M. or P.M.).

PROCEDURE	DISPLAY
<b>1</b> <p>Touch <b>CLOCK</b> pad.</p>	<p>The colon (:) will flash.</p>
<b>2</b> <p>Enter the correct time of day by touching the numbers in sequence.</p>	
<b>3</b> <p>Touch <b>CLOCK</b> pad again.</p>	

This is a 12 hour clock. If you attempt to enter an incorrect clock time, **EE** will appear in the display. Touch **STOP/CLEAR** pad and re-enter the time.

- If the electrical power supply to your microwave oven should be interrupted, the display will intermittently show **88:88** after the power is reinstated. If this occurs during cooking, the program will be erased. The time of day will also be erased. Simply touch **STOP/CLEAR** pad and reset the clock for the correct time of day.

## STOP/CLEAR

Touch **STOP/CLEAR** pad to:

- Erase if you make a mistake during programming.
- Cancel timer.
- Stop the oven temporarily during cooking.
- Return the time of day to the display.
- Cancel a program during cooking, touch twice.

## MANUAL OPERATION

### TIME COOKING

Your oven can be programmed for 99 minutes 99 seconds (99.99). Always enter the seconds after the minutes, even if they are both zeros.

- Suppose you want to cook for 5 minutes at 100%.

PROCEDURE	DISPLAY
<b>1</b> <p>Enter cooking time.</p>	<p>START will flash.</p>
<b>2</b> <p>Touch <b>START</b> pad.</p>	

### TO SET POWER LEVEL

There are eleven preset power levels.

Using lower power levels increases the cooking time which is recommended for foods such as cheese, milk and long slow cooking of meats. Consult cookbook or recipes for specific recommendations.

TOUCH POWER LEVEL PAD	APPROXIMATE PERCENTAGE OF POWER	COMMON WORDS FOR POWER LEVELS
once	100%	High
twice	90%	
3 times	80%	
4 times	70%	Medium High
5 times	60%	
6 times	50%	Medium
7 times	40%	
8 times	30%	Med Low/Defrost
9 times	20%	
10 times	10%	Low
11 times	0%	

- Suppose you want to defrost for 5 minutes at 30%.

PROCEDURE	DISPLAY
<b>1</b> <p>Enter defrost time.</p>	<p>START will flash.</p>
<b>2</b> x 8 <p>Touch <b>POWER LEVEL</b> pad 8 times or hold down until the desired power level appears.</p>	
<b>3</b> <p>Touch <b>START</b> pad.</p>	
<b>4</b> <p>When the defrost time is complete, a long tone will sound and <b>End</b> will appear in the display.</p>	



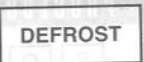



# SPECIAL FEATURES

## DEFROST

Use this feature to defrost ground meat, steaks, chops and poultry automatically.

- Suppose you want to defrost a 2.0 lb steak.

### PROCEDURE

- 1 Touch **DEFROST** pad. 
  - 2 Select desired food by touching number pad. (Ex. Touch **2** for steaks/chops.) 
  - 3 Enter weight by touching the number pads **2** and **0**. (Ex. 2.0 lbs steak) 
  - 4 Touch **START** pad. 
- The oven will stop so that the food can be checked.
- 5 After the 1st stage, open the door. Turn steak over and shield any warm portions. Close the door. Touch **START** pad.

- 6 After the 2nd stage, open the door. Shield any warm portions. Close the door. Touch **START** pad.
- 7 After defrost cycle ends, cover and let stand as indicated in chart below.

### NOTE:

1. If you attempt to enter more or less than the allowed amount (0.5-3.0 lbs), **EE** will appear in the display.
2. Defrost can be programmed with More or Less Time Adjustment. Touch **POWER LEVEL** once or twice before touching **START**. See page 16.
3. To defrost other foods or foods above or below the weights allowed in the DEFROST CHART below, use time and 30% power. See MANUAL DEFROST on page 11.

## DEFROST CHART

FOOD	AMOUNT	PROCEDURE
1. Ground Meat	.5 - 2.0 lbs	Remove any thawed pieces after each stage. Let stand, covered, 5 to 10 minutes.
2. Steaks/Chops	.5 - 3.0 lbs	After each stage of defrost cycle, rearrange and if there are warm or thawed portions, shield with small flat pieces of aluminum foil. Remove any meat that is nearly defrosted. Let stand, covered, 10 to 20 minutes.
3. Boneless Poultry	.5 - 1.5 lbs	Use boneless breast of chicken or turkey. After each stage, if there are warm or thawed portions, rearrange or remove. Let stand, covered, for 10 to 20 minutes.
4. Bone-in Poultry	.5 - 3.0 lbs	Arrange pieces with meatiest portions toward outside of glass dish or microwave safe rack. After each stage, if there are warm or thawed portions, rearrange or remove. Let stand, covered, for 10 to 20 minutes.

**NOTE:** Check foods when oven signals. After final stage, small sections may still be icy. Let stand to continue thawing. Do not defrost until all ice crystals are thawed.

Shielding prevents cooking from occurring before the center of the food is defrosted. Use small smooth strips of aluminum foil to cover edges and thinner sections of the food.

## SPECIAL FEATURES

### MANUAL DEFROST

If the food that you wish to defrost is not listed on the DEFROST CHART or is above or below the limits in the AMOUNT column on the DEFROST CHART, you need to defrost manually.

You can defrost any frozen food, either raw or previously cooked, by using 30% power level. See page 9. Estimate defrosting time and press **POWER LEVEL** pad 8 times when you select the power level.

For either raw or previously cooked frozen food the rule of thumb is approximately 4 minutes per pound. For example, defrost 4 minutes for 2-3 cups of casserole or 1 pound of frozen spaghetti sauce.

Always stop the oven periodically to remove or separate the portions that are defrosted. If food is not defrosted at the end of the estimated defrosting time, program the oven in 1 minute increments at 30% until totally defrosted.

When using plastic containers from the freezer, defrost only long enough to remove from the plastic in order to place in a microwave-safe dish.

### POPCORN

The popcorn setting automatically provides the correct cooking time for most brands of microwave popcorn. See the chart below.

- Suppose you want to pop a 3.5 oz bag of regular popcorn.

#### PROCEDURE

1

POPCORN

Touch **POPCORN** pad once.  
The oven starts automatically.

#### NOTE:

- Popcorn can only be entered within 3 minutes after cooking, opening and closing the door or touching the **STOP/CLEAR** pad.
- Popcorn can be programmed with More or Less Time adjustment. See page 16.

### POPCORN CHART

FOOD	AMOUNT	PROCEDURE
POPCORN	1 bag	Try several brands to decide which is most acceptable for your taste. Unfold bag and place in oven according to directions.
	3.5 oz bag (Regular)	Touch <b>POPCORN</b> pad once for regular. <input type="text" value="7"/> .
	2.85 - 3.5 oz bag (Regular Light)	Touch <b>POPCORN</b> pad twice within 2 seconds for regular light. <input type="text" value="2"/> .
	1.2 - 1.6 oz (Mini)	Touch <b>POPCORN</b> pad three times within 3 seconds for mini. <input type="text" value="3"/> .
	1.5 - 1.75 oz (Snack)	Touch <b>POPCORN</b> pad three times within 3 seconds, then touch <b>POWER LEVEL</b> pad once within 2 seconds for snack. <input type="text" value="PLUS"/> .

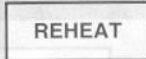



## SPECIAL FEATURES

### REHEAT / COOK

Reheat and Cook automatically compute the correct warming or cooking time and microwave power level for foods shown in the charts.

- Suppose you want to reheat 2 cups of soup.

#### PROCEDURE

- Touch **REHEAT** once. 
- Select desired food by touching number pad. (Ex: Touch **2** for soup.) 
- Repeat touching same number pad to select quantity. (Ex: Touch **2** two more times for 2 cups.)  x 2
- Touch **START** pad. 

#### NOTE:

- To reheat or cook other food or foods above or below the quantity allowed on the REHEAT CHART or COOK CHART, cook manually.
- Reheat and Cook can be programmed with More or Less Time Adjustment. Touch **POWER LEVEL** once or twice before touching **START**. See page 16.

### COOK CHART

FOOD	AMOUNT	PROCEDURE
1. Baked Potatoes	1 - 4 med.	Pierce with fork in several places. Place on paper towel on turntable. After cooking, remove from oven and let stand wrapped in foil for 5 to 10 minutes.
2. Fresh Vegetables	1 - 4 cups	For beans, carrots, corn and peas, add 1 tablespoon of water per cup. For broccoli, Brussel sprouts, cabbage and cauliflower, cook immediately after washing with no additional water.  If you like tender crisp vegetables, double measured quantity per setting. For example, use 2 cups cauliflower and program for 1 cup. After cooking, remove from oven, stir, cover and let stand 3 to 5 minutes before serving.
3. Frozen Vegetables	1 - 4 cups	Add no water. Cover with lid or plastic wrap. After cooking, stir and let stand, covered, for 3 minutes.
4. Frozen Entrees	6 - 17 oz.	Use for frozen, convenience foods. It will give satisfactory results for most brands. You may wish to try several and choose your favorite. Remove package from outer wrapping and follow package directions for covering. After cooking, let stand covered for 1 to 3 minutes.
	6 - 8 oz.	Touch <b>COOK</b> pad and number pad 4 twice for packages weighing 6-8 oz. <b>6-8</b> will appear in the display.
	9 - 11 oz.	Touch <b>COOK</b> pad and number pad 4 three times for packages weighing 9-11 oz. <b>9-11</b> will appear in the display.
	12 - 14 oz.	Touch <b>COOK</b> pad and number pad 4 four times for packages weighing 12-14 oz. <b>12-14</b> will appear in the display.
	15 - 17 oz.	Touch <b>COOK</b> pad and number pad 4 five times for packages weighing 15-17 oz. <b>15-17</b> will appear in the display.

## COOK CHART

FOOD	AMOUNT	PROCEDURE															
5. Ground Meat	.3 - 1.5 lb	Use this setting to cook ground beef or turkey as patties or in a casserole to be added to other ingredients. Place patties on a microwave-safe rack and cover with wax paper. Place ground meat in a casserole and cover with wax paper or plastic wrap. You can cook 0.3 lb, 0.5 lb, 0.7 lb, 1.0 lb, 1.3 lb and 1.5 lb ground meat by touching number pad 5. When oven stops, turn patties over or stir meat in casserole to break up large pieces. Re-cover and touch <b>START</b> pad. After cooking, let stand, covered for 2 to 3 minutes.															
6. Rice	.5 - 2.0 cups	Place rice into a deep casserole and add double quantity of water. Cover with lid or plastic wrap. You can cook 0.5 cup, 1 cup, 1.5 cups and 2 cups rice by touching number pad 6. After cooking, stir, cover and let stand 3 to 5 minutes or until all liquid has been absorbed.															
		<table> <tr> <th>Rice</th><th>Water</th><th>Size of casserole</th></tr> <tr> <td>.5 cup</td><td>1 cup</td><td>1.5 quart</td></tr> <tr> <td>1 cup</td><td>2 cups</td><td>2 quart</td></tr> <tr> <td>1.5 cups</td><td>3 cups</td><td>2.5 or 3 quart</td></tr> <tr> <td>2 cups</td><td>4 cups</td><td>3 quart or larger</td></tr> </table>	Rice	Water	Size of casserole	.5 cup	1 cup	1.5 quart	1 cup	2 cups	2 quart	1.5 cups	3 cups	2.5 or 3 quart	2 cups	4 cups	3 quart or larger
Rice	Water	Size of casserole															
.5 cup	1 cup	1.5 quart															
1 cup	2 cups	2 quart															
1.5 cups	3 cups	2.5 or 3 quart															
2 cups	4 cups	3 quart or larger															



## REHEAT CHART

FOOD	AMOUNT	PROCEDURE
1. Pasta Sauce	1 - 4 cups	Use for prepared or homemade sauce. Place in deep bowl or casserole. Cover with lid or plastic wrap. At end, stir well and serve with cooked pasta.
2. Soup	1 - 4 cups	Place in bowl or casserole. Cover with lid or plastic wrap. At end, stir, re-cover and let stand 1 to 3 minutes.
3. Pizza	1 - 4 slices	Use to reheat refrigerated leftover pizza. 1 slice is approximately 1/8th of a 12 inch pizza or 1/12th of a 16 inch pizza. Place on paper towel.
4. Dinner Plate	1 plate	Use to reheat precooked foods from the refrigerator. Place meaty portions and bulky vegetables to outside of plate. Cut large items like baked potatoes in smaller pieces. Flatten foods such as mashed potatoes and other dense foods. Cover with wax paper or plastic wrap. <b>ONE PLATE ONLY.</b> After cooking, check that food is very hot throughout and that the bottom center of the plate is very hot. If not, continue heating using time and power level. Allow to stand, covered, 1 to 2 minutes.
	1 Regular	Touch <b>REHEAT</b> pad and number pad 4 twice for a regular amount of food: approximately 4 oz. sliced meat or poultry, 1/2 cup potato or rice and 1/2 cup of vegetables or equivalent. <b>REG</b> will appear in the display.
	1 Large	Touch <b>REHEAT</b> pad and number pad 4 three times for a larger amount of food on a dinner plate. <b>LG</b> will appear in the display.
	1 Small	Touch <b>REHEAT</b> pad and number pad 4 four times for a smaller amount of food on a dinner plate. <b>S</b> will appear in the display.
Casserole (Initial setting : 1.5 cups)	1 - 2 cups	Use to reheat refrigerated canned or homemade pasta with sauce or other cooked casserole. For room temperature pasta or casserole, use Less option. For pasta without sauce double the quantity per setting. For example, measure 2 cups of cooked noodles and program for 1 cup. Cover with lid or plastic wrap. After cooking, stir and let stand, covered, 2 to 3 minutes.
	1.5 cups	Touch <b>REHEAT</b> pad and number pad 4 twice for 1.5 cups of casserole. <b>REG</b> will appear in the display.
	2 cups	Touch <b>REHEAT</b> pad and number pad 4 three times for 2 cups of casserole. <b>LG</b> will appear in the display.
	1 cup	Touch <b>REHEAT</b> pad and number pad 4 four times for 1 cup of casserole. <b>S</b> will appear in the display.
5. Beverage	.5 - 2 cups	This setting is good for restoring cooled beverage to a better drinking temperature. Stir after heating. You can reheat 0.5 cup, 1 cup, 1.5 cups and 2 cups beverage by touching number pad 5.
6. Rolls/Muffins	1 - 6 pieces	Use to warm rolls, muffins, biscuits, bagels etc. Large item should be considered as 2 regular size. Cover each roll/muffin with paper towel. For refrigerated rolls or muffins, it may be necessary to double the entered amount to ensure the proper serving temperature. For example, enter quantity of 2 for 1 refrigerated muffin. For frozen rolls or muffins, use More Time Adjustment.





# SPECIAL FEATURES

## SHORT CUTS

Short Cuts automatically compute the correct heating time and microwave power level for melting, softening and warming foods shown in the chart.

- Suppose you want to melt 1 square of chocolate.













### PROCEDURE

- 1 Touch **MELT** once. 
- 2 Select desired food by touching number pad. (Ex: Touch **2** for chocolate.) 
- 3 Repeat touching same number pad to select quantity. (Ex: Touch **2** two more times for 1 square.)  x 2
- 4 Touch **START** pad. 

### NOTE:

1. To melt, soften or warm other food or foods except the quantity listed in the **SHORT CUTS CHART**, cook manually.
2. Short Cuts can be programmed with More or Less Time Adjustment. Touch **POWER LEVEL** once or twice before touching **START**. See page 16.

## SHORT CUTS CHART

FOOD	AMOUNT	PROCEDURE
<b>MELT</b>		
1. Butter	2 tbsp	Use a Pyrex measuring cup. Cover with plastic wrap. After touching <b>MELT</b> , touch 1 two times for 2 tbsp. 
	1/2 cups	After touching <b>MELT</b> , touch 1 three times for 1/2 cup. 
2. Chocolate	1 cup chips	Use a Pyrex measuring cup. Cover with plastic wrap. After touching <b>MELT</b> , touch 2 two times for 1 cup chips. 
	1 square	After touching <b>MELT</b> , touch 2 three times for 1 square. 
<b>SOFTEN</b>		
1. Ice cream	1 pint	DO NOT COVER. After touching <b>SOFTEN</b> , touch 1 two times for 1 pint. 
	1/2 gallon	After touching <b>SOFTEN</b> , touch 1 three times for 1/2 gallon. 
2. Cream cheese	3 oz.	Use a small plate. DO NOT COVER. After touching <b>SOFTEN</b> , touch 2 two times for 3 oz. 
	8 oz.	After touching <b>SOFTEN</b> , touch 2 three times for 8 oz. 
<b>WARM</b>		
1. Syrup	1/4 cup	Use a Pyrex measuring cup. DO NOT COVER. After touching <b>WARM</b> , touch 1 two times for 1/4 cup. 
	1/2 cup	After touching <b>WARM</b> , touch 1 three times for 1/2 cup. 
2. Dessert topping	1/4 cup	Use a Pyrex measuring cup. DO NOT COVER. After touching <b>WARM</b> , touch 2 two times for 1/4 cup. 
	1/2 cup	After touching <b>WARM</b> , touch 2 three times for 1/2 cup. 

## OTHER CONVENIENT FEATURES

### MULTIPLE SEQUENCE COOKING

Your oven can be programmed for up to 3 automatic cooking sequences, switching from one power level setting to another automatically.

Sometimes cooking directions tell you to start on one power level and then change to a different power level. Your oven can do this automatically.

- Suppose you want to cook roast beef for 5 minutes at 100% and then continue to cook for 30 minutes at 50%.

#### PROCEDURE

- 1 First enter cooking time. Then touch **POWER LEVEL** pad once for 100% power. x 1
- 2 Then enter second cooking time. Touch **POWER LEVEL** pad 6 times for 50% power. x 6
- 3 Touch **START** pad.

#### NOTE:

1. If **POWER LEVEL** pad is touched once, will be displayed.
2. If 100% is selected as the final sequence, it is not necessary to touch **POWER LEVEL** pad.
3. If you wish to know power level, simply touch **POWER LEVEL** pad. As long as your finger is touching **POWER LEVEL** pad, the power level will be displayed.

### TIMER

- Suppose you want to time a 3-minute long distance phone call.

#### PROCEDURE

- 1 Enter time.
- 2 Touch **TIMER** pad.

### MINUTE PLUS

Minute Plus allows you to cook for a minute at 100% by simply touching **MINUTE PLUS** pad. You can also extend cooking time in multiples of 1 minute by repeatedly touching **MINUTE PLUS** pad during manual cooking.

- Suppose you want to heat a cup of soup for one minute at 100%.

#### PROCEDURE

- 1 Touch **MINUTE PLUS** pad.

#### NOTE:

1. To use Minute Plus, touch pad within 3 minutes after cooking, closing the door, touching **STOP/CLEAR** pad.
2. Minute Plus cannot be used with Special Features.

### MORE OR LESS TIME ADJUSTMENT

Should you discover that you like any of the DEFROST, POPCORN, REHEAT, COOK or SHORT CUTS settings slightly **more** done, touch **POWER LEVEL** pad **once** after touching your choice of pads or before touching **START** pad.

The display will show .

Should you discover that you like any of the DEFROST, POPCORN, REHEAT, COOK or SHORT CUTS settings slightly **less** done, touch **POWER LEVEL** pad **twice** after touching your choice of pads or before touching **START** pad.

The display will show .

**NOTE:** For **POPCORN**, the **POWER LEVEL** pad must be touched within 1 second of touching your choice of pads.

### CHILD LOCK

The Child Lock prevents unwanted oven operation such as by small children. The oven can be set so that the control panel is deactivated or locked. To set, touch **TIMER/CLOCK**, the number and then touch the **START** pad and hold for three seconds. Should a pad be touched, will appear in the display.

To cancel, touch **TIMER/CLOCK**, the number and **STOP/CLEAR** pads.

## OTHER CONVENIENT FEATURES

### AUDIBLE SIGNAL ELIMINATION

If you wish to have the oven operate with no audible signals, touch **TIMER/CLOCK**, the number **5** and then touch the **START** pad and hold for three seconds.

To cancel, touch **TIMER/CLOCK**, the number **5** and **STOP/CLEAR** pads.

### DEMONSTRATION MODE

To demonstrate, touch **TIMER/CLOCK**, the number **0** and then touch the **START** pad and hold for 3 seconds. **SHD** will appear in the display. Cooking operations and specific special features can now be demonstrated with no power in the oven. For example, touch **MINUTE PLUS** pad and the display will show **1.00** and count down quickly to **End**.

To cancel, touch **TIMER/CLOCK**, the number **0** and **STOP/CLEAR** pads. If easier, unplug the oven from the electrical outlet and replug.

## CLEANING AND CARE

Disconnect the power cord before cleaning or leave the door open to inactivate the oven during cleaning.

### Exterior

The outside surface is painted. Clean the outside with mild soap and water; wipe with a soft cloth. Do not use any type of household or abrasive cleaner.

### Door

Wipe the window on both sides with a soft damp cloth to remove any spills or spatters. Metal parts will be easier to maintain if wiped frequently with a soft damp cloth. Avoid the use of spray and other harsh cleaners as they may stain, streak or dull the door surface.

### Touch Control Panel

Wipe the panel with a soft cloth dampened slightly with water only. Dry with a soft cloth. Do not scrub or use any sort of chemical cleaners. Close door and touch **STOP/CLEAR** pad.

### Interior

Cleaning is easy because little heat is generated to the interior surfaces; therefore, there is no baking and setting of spills or spattering. To clean the interior surfaces, wipe with a soft damp cloth. **DO NOT USE ABRASIVE OR HARSH CLEANERS OR SCOURING PADS.** For heavier soil, use baking soda or a mild soap; wipe clean with a soft damp cloth. **NEVER SPRAY OVEN CLEANERS DIRECTLY ONTO ANY PART OF THE OVEN.**

### Waveguide Cover

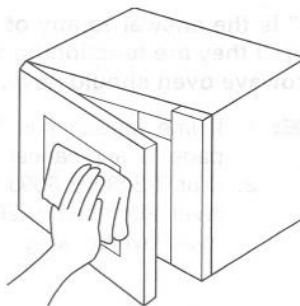
The waveguide cover is made from mica so requires special care. Keep the waveguide cover clean to assure good oven performance. Carefully wipe with a soft damp cloth any food spatters from the surface of the cover immediately after they occur. Built-up splashes may overheat and cause smoke or possibly catch fire. Do not remove the waveguide cover.

### Odor Removal

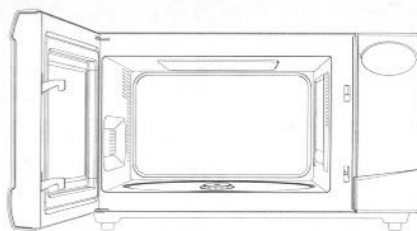
Occasionally, a cooking odor may remain in the oven. To remove, combine 1 cup water, grated peel and juice of 1 lemon and several whole cloves in a 2-cup glass measuring cup. Boil for several minutes using 100% power. Allow to set in oven until cool. Wipe interior with a soft cloth.

### Turntable/Turntable Support

The turntable and turntable support can be removed for easy cleaning. Wash them in mild, sudsy water; for stubborn stains use a mild cleanser and a non-abrasive scouring sponge. They are also dishwasher-proof. Use upper rack of dishwasher. The turntable motor shaft is not sealed, so excess water or spills should be wiped up immediately.



Exterior



Interior



Turntable



Turntable Support