

OVER THE RANGE MODELS

# R-1500, R-1501, R-1502, R-1505, R-1506



# FOR CUSTOMER ASSISTANCE

To aid in reporting this microwave oven in case of loss or theft, please record below the model number and serial number located on the unit. We also suggest you record all the information listed and retain for future reference.

MODEL NUMBER DATE OF PURCHASE	SERIAL NUMBER
DEALER	TELEPHONE

### TO PHONE:

DIAL 1-800-BE-SHARP ( 237-4277 ) for :

SERVICE (for your nearest Sharp Authorized Servicer) PARTS (for your authorized parts distributor) ADDITIONAL CUSTOMER INFORMATION

DIAL 1-800-642-2122 for : ACCESSORIES and COOKBOOK

### **TO WRITE:**

Sharp Electronics Corporation Customer Assistance Center 1300 Naperville Drive Romeoville, IL 60446-1091

### TO ACCESS INTERNET: www.sharp-usa.com

Please provide the following information when you write or call: model number, serial number, date of purchase, your complete mailing address (including zip code), your daytime telephone number (including area code) and description of the problem.

# 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.

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# CONSUMER LIMITED WARRANTY

SHARP ELECTRONICS CORPORATION warrants to the first consumer purchaser that this Sharp brand product (the "Product"), when shipped in its original container, will be free from defective workmanship and materials, and agrees that it will, at its option, either repair the defect or replace the defective Product or part thereof with a new or remanufactured equivalent at no charge to the purchaser for parts or labor for the period(s) set forth below.

This warranty does not apply to any appearance items of the Product nor to the additional excluded item(s) set forth below nor to any Product the exterior of which has been damaged or defaced, which has been subjected to misuse, abnormal service or handling, or which has been altered or modified in design or construction.

In order to enforce the rights under this limited warranty, the purchaser should follow the steps set forth below and provide proof of purchase to the servicer.

The limited warranty described herein is in addition to whatever implied warranties may be granted to purchasers by law. ALL IMPLIED WARRANTIES INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE PERIOD(S) FROM THE DATE OF PURCHASE SET FORTH BELOW. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Neither the sales personnel of the seller nor any other person is authorized to make any warranties other than those described herein, or to extend the duration of any warranties beyond the time period described above on behalf of Sharp.

The warranties described herein shall be the sole and exclusive warranties granted by Sharp and shall be the sole and exclusive remedy available to the purchaser. Correction of defects, in the manner and for the period of time described herein, shall constitute complete fulfillment of all liabilities and responsibilities of Sharp to the purchaser with respect to the Product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise. In no event shall Sharp be liable, or in any way responsible, for any damages or defects in the Product which were caused by repairs or attempted repairs performed by anyone other than an authorized servicer. Nor shall Sharp be liable or in any way responsible for any incidental or consequential economic or property damage. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Your Product Model Number & Description:	R-1500, R-1501, R-1502, R-1505 or R-1506 Home Use Carousel <sup>™</sup> Microwave Oven. (Be sure to have this information available when you need service for your Product.)
Warranty Period for this Product:	One (1) year parts and labor in-home service. The warranty period continues for an additional six (6) years, for a total of seven (7) years, with respect to the magnetron tube in the Product for parts only. Labor and the servicer trip charge are not provided free of charge for this additional period.
Additional Item(s) Excluded from Warranty Coverage (if any):	Non-functional accessories, turntable and light bulbs.
Where to Obtain Service:	From a Sharp Authorized Servicer located In the United States. Be sure to have <b>Proof of Purchase</b> available. For in-home service, the servicer will come to the unit's location. If it is necessary to re- move the unit for repair, the servicer will reinstall the unit at no extra charge, provided it was installed according to Sharp's Installation Instructions. To find the location of the nearest Sharp Authorized Servicer, call Sharp toll free at 1-800-BE-SHARP (1-800-237-4277).

TO OBTAIN SUPPLY, ACCESSORY OR PRODUCT INFORMATION, CALL **1-800-BE-SHARP** OR VISIT **www.sharp-usa.com**. SAVE THE PROOF OF PURCHASE AS IT IS NEEDED SHOULD YOUR OVEN EVER REQUIRE WARRANTY SERVICE.

# PRODUCT INFORMATION CARD

The product information card should be completed within ten days of purchase and returned. It is necessary to write the model and serial numbers, found on the nameplate in the oven cavity, on the product information card. We will keep it on file and help you access the information in case of loss, damage or theft. This will also enable us to contact you in the unlikely event that any adjustments or modifications are ever required for your 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 "PRECAU-TIONS TO AVOID POSSIBLE EXPO-SURE TO EXCESSIVE MICROWAVE ENERGY" on inside front cover.
- This appliance must be grounded. Connect only to properly grounded outlet. See "GROUNDING INSTRUCTIONS" on page 7.
- 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—may explode and should not be heated in this oven.
- 6. Stir liquids briskly before heating and allow to stand 20 seconds after heating before stirring or drinking to avoid eruption.
- 7. Use this appliance only for its intended use as described in this manual. Do not use corrosive chemicals or vapors in this appliance. This type of oven is specifically designed to heat, cook or dry food. It is not designed for industrial or laboratory use.
- 8. As with any appliance, close supervision is necessary when used by children.
- 9. 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.
- 10. This appliance should be serviced only by qualified service personnel. Contact nearest Sharp Authorized Servicer for examination, repair or adjustment.
- 11. Do not cover or block any openings on the appliance.
- 12. 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.

- 13. Do not immerse cord or plug in water.
- 14. Keep cord away from heated surfaces.
- 15. Do not let cord hang over edge of table or counter.
- 16. See door surface cleaning instructions on page 30.
- 17. 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.
- Clean ventilation openings and grease filters frequently—Grease should not be allowed to accumulate on ventilation openings, louver or grease filters.
- 19. Use care when cleaning the louver and the grease filters. Corrosive cleaning agents, such as lye-based oven cleaners, may damage the louver and the grease filters.
- 20. When flaming food under the hood, turn the fan on.
- 21. This appliance is suitable for use above both gas and electric cooking equipment 36" wide or less.

# SAVE THESE INSTRUCTIONS

# UNPACKING AND INSTALLATION INSTRUCTIONS

### UNPACKING AND EXAMINING YOUR OVEN

Open the bottom of the carton, bend the carton flaps back and tilt the oven over to rest on plasticfoam pad. Lift carton off oven and remove all packing materials, WALL and TOP CABINET TEMPLATE, Turntable, and Turntable Support. SAVE THE CARTON AS IT MAY MAKE INSTALLATION EASIER.

- 1. Remove the feature sticker from the outside of the door, if there is one.
- 2. DO NOT REMOVE THE WAVEGUIDE COVER, which is located on the right side wall of the oven cavity. Check to see that there is a WALL TEMPLATE and TOP CABINET TEMPLATE. Read enclosures and SAVE the Operation Manual.

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. See Installation Instructions for more details.

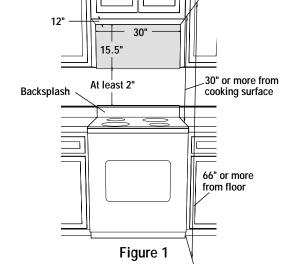
Please read all instructions thoroughly before installing the Over the Range Microwave Oven/Hood System. Two people are recommended to install this product.

If a new electrical outlet is required, its installation should be completed by a qualified electrician before the Microwave Oven/Hood is installed. See 3 ELECTRICAL GROUNDING INSTRUCTIONS on page 7.

## **1 MOUNTING SPACE**

This Microwave Oven/Hood requires a mounting space on a wall as shown in Figure 1. It is designed to be used with standard 12-inch wall cabinets.

If the space between the wall cabinets is 36 or 42 inches, a Filler Panel Kit can be used to fill the gap. The metal filler panels come in 3-inch wide pairs. One set is needed for a 36-inch opening and 2 sets for a 42-inch opening. See page 15 for ordering information. The Filler Panel Kit should be installed before the Microwave Oven/Hood is installed.



## **2 WALL CONSTRUCTION**

This Microwave Oven/Hood should be mounted against and supported by a flat vertical wall. The wall must be flat for proper installation. If the wall is not flat, use spacers to fill in the gaps. Wall construction should be a minimum of 2" x 4" wood studding and 3/8" or more thick dry wall or plaster/lath. The mounting surfaces must be capable of supporting weight of 110 pounds—the oven and contents—AND the weight of all items which would normally be stored in the top cabinet above the unit.

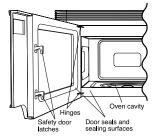
The unit should be attached to a minimum of one 2" x 4" wall stud.

To find the location of the studs, one of the following methods may be used:

A. Use a stud finder, a magnetic device which locates the nails in the stud.

B. Use a hammer to tap lightly across the mounting surface to find a solid sound. This will indicate stud location.

The center of the stud can be located by probing the wall with a small nail to find the edges of the stud and then placing a mark halfway between the edges. The center of any adjacent studs will normally be 16" or 24" to either side of this mark.



## **3 ELECTRICAL 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 oven is equipped with a 3-prong grounding plug. DO NOT UNDER ANY CIRCUMSTANCES CUT OR REMOVE THE GROUNDING PIN FROM THE PLUG.

The Power Supply Cord and plug must be connected to a separate 120 Volt AC, 60 Hz, 15 Amp, or more branch circuit, single grounded receptacle. The receptacle should be located inside the cabinet directly above the Microwave Oven mounting location as shown in Figure 2.

#### NOTE:

- 1. If you have any questions about the grounding or electrical instructions, consult a qualified electrician or serviceperson.
- 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.

### 4 HOOD EXHAUST DUCT

When the hood is vented to the outside, a hood exhaust duct is required. All ductwork must be metal; absolutely do not use plastic duct. Check that all connections are made securely. Please read the following carefully:

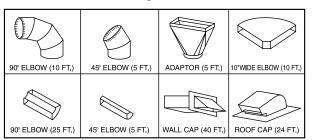
**Exhaust connection:** The hood exhaust has been designed to connect to a standard 3-1/4" X 10" rectangular duct. If round duct is required, a rectangular-to-round adapter must be used.

Rear exhaust: If a rear or horizontal exhaust is to be used, care should be taken to align the exhaust with the space between the studs, or wall should be prepared at the time it is constructed by leaving enough space between wall studs to accommodate exhaust.

**Maximum duct length:** For satisfactory air movement, the total duct length of 3-1/4" X 10" rectangular or 6" diameter round duct should not exceed 140 feet.

Elbows, adapters, wall caps, roof caps, etc. present additional resistance to air flow and are equivalent to a section of straight duct which is longer than their actual physical size. When calculating the total length, add the equivalent lengths of all transitions and adapters plus the length of all straight duct sections. Figure 3 shows the approximate feet of equivalent length of some typical ductwork parts. Use the values in parentheses for calculating air flow resistance equivalent, which should total less than 140 feet.







3-Prong Plug

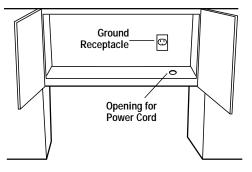
Grounding Pin

3-Prong Receptacle

. M

•

Ground Receptacle Box



### **5 TOOLS RECOMMENDED FOR INSTALLATION**

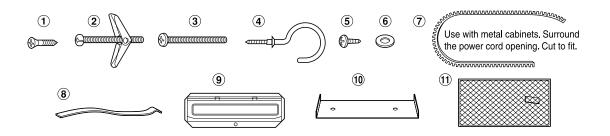
- Phillips Screwdriver
- Electric Drill
- 1/2", 5/8" and 3/32" Drill Bits
- 1-1/2" Wood Bit or Metal Hole Cutter (if metal cabinet is used)
- Saw to cut exhaust opening (if needed)
- Protective Drop Cloth for product and range - you may also use carton for protection
- Scissors
- Pencil
- Measure
- Tape

## **6 INSTALLATION HARDWARE**

The INSTALLATION HARDWARE items (1 - 7) are in a small bag. Items (8 - 1) are packed separately. All items are in a small carton packed below the oven.

ITE	M NAME	QUANTITY	PART CODE
1	Wood Screw 5 X 30 mm	6	XTSSD50P35000
2	Toggle Bolt with nuts #10 - 24 X 50 mm	4	LX-BZ0195WRE0
3	Top Cabinet Screw 5 X 60 mm	2	XBRSD50P60000
4	Power Cord Hanger	1	LX-MZB001MRE0
5	Tapping Screw 4 x 12 mm	3	XOTSD40P12000
6	Flat Washer 30 mm diameter	2	XWHSD50-16300
7	Grommet	1	LBSHC0040MRE0
8	Rear Cushion	1	PCUSUB059MRP0
9	Exhaust Damper Assembly	1	FFTA-B005MRK0
(10)	Scale Plate	2	LANG-B002MRP0
11	Grease Filter	2	PFIL-B002MRE0

Figure 4 Parts shown not to common scale.



### **7 PREPARATION OF THE OVEN**

- 1. Turn oven on the side. See Figure 5.
- 2. Follow steps (A)-(D) to remove mounting plate from the back of the oven as shown in Figure 5.
  - (A) Release mounting plate by pulling out the lever that is on the bottom of the oven. See Figure 6.
  - (B) When lever is out, pull that side of the mounting plate away from the oven. See Figure 5.
  - (C) Repeat step (A) on other side.
  - (D) Repeat step (B) on other side.

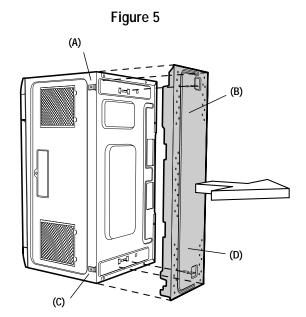
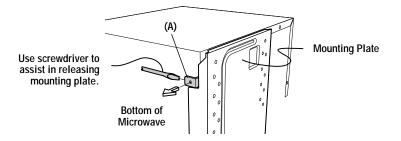


Figure 6



### 8 VENTILATION SYSTEM (PREPARING OVEN FOR INSTALLATION)

This Microwave Oven/Hood is designed for adaptation to three types of hood ventilation systems. Select the type required for your installation.

**Recirculating** — non-vented, ductless. Follow installation procedure (A). Recirculating requires the use of the Charcoal Filter, which has already been installed in the oven.

Horizontal Exhaust - outside ventilation. Follow installation procedure (B).

Vertical Exhaust — outside ventilation. Follow installation procedure (C).

### (A) RECIRCULATING: NON-VENTED, DUCTLESS OPERATION

The unit is shipped assembled for recirculating.

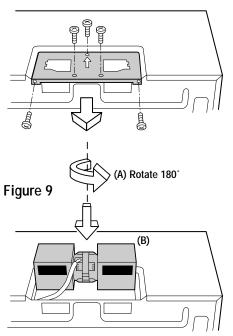
NOTE: 1. The Exhaust Damper Assembly (9) is not required for recirculating operation.

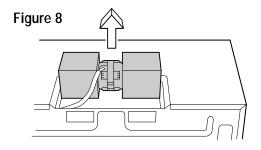
- 2. The Charcoal Filter should be replaced every 6 to 12 months, depending on use.
  - 3. The Charcoal Filter RK-240 is also sold as an accessory. See Page 14 for ordering information.

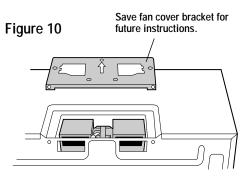
## (B) HORIZONTAL EXHAUST: OUTSIDE VENTILATION

- 1. Remove 2 screws from back edge and 3 screws from the top center of Fan Cover Bracket. Save 2 screws to be used later and discard remaining 3. Remove Fan Cover Bracket by sliding it in the opposite direction of the arrow on the Fan Cover Bracket, as shown in Figure 7.
- 2. Lift Hood Fan Unit carefully and slip wires out of cavity. See Figure 8. CAUTION: Do not pull or stretch hood fan wiring.
- 3. Rotate the Hood Fan Unit 180° so that the fan blade openings are facing the back of the oven. See Figure 9 (A). Replace Hood Fan Unit into the oven. Be careful not to pinch the wire and the Hood Fan Unit. See Figure 9 (B).
- 4. Put the wire back into the cavity. See Figure 10.





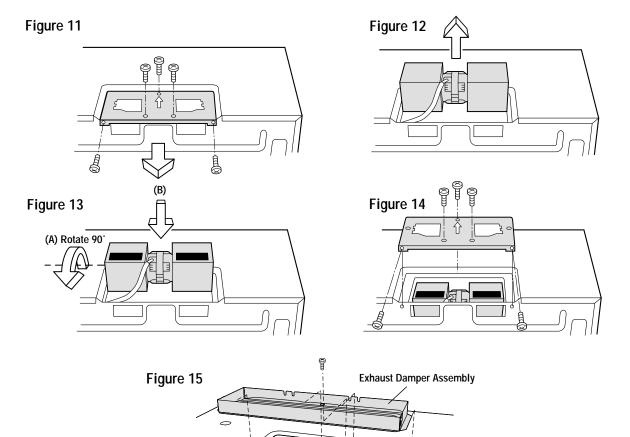




## <u>UNPACKING AND INSTALLATION INSTRUCTIONS</u>

## (C) VERTICAL EXHAUST: OUTSIDE VENTILATION

- 1. Remove and save 2 screws from back edge and 3 screws from the top center of the Fan Cover Bracket. Remove Fan Cover Bracket by sliding it in the opposite direction of the arrow on the Fan Cover Bracket as shown in Figure 11.
- 2. Lift Hood Fan Unit carefully and slip wires out of cavity. See Figure 12. CAUTION: Do not pull or stretch hood fan wiring.
- Rotate the Hood Fan Unit 90° so that the fan blade openings are facing the top of the oven. See Figure 13 (A). Replace Hood Fan Unit into the oven. Be careful not to pinch the lead wire between the inner bracket and the Hood Fan Unit. Put the lead wire into Wire Box. See Figure 13 (B).
- 4. Replace the Fan Cover Bracket by sliding it into the slits in the same direction as the arrow on the Fan Cover Bracket. Make sure the fan blades are visible through the top openings in the oven before proceeding.
- 5. Attach the Fan Cover Bracket to unit with the 2 screws from back edge and 3 screws from the top center of the Fan Cover Bracket, which were removed in Step 1 above. See Figure 14. The Hood Fan Unit is now rotated for vertical exhaust operation.
- Attach the Exhaust Damper Assembly (9) to the fan cover on the top of the outercase cabinet by sliding it into the slits in the same direction as the arrow. Use 1 Tapping Screw 4 X12 mm (5) from the INSTALLATION HARD-WARE and tighten into place. See Figure 15.



## **9 OVEN INSTALLATION**

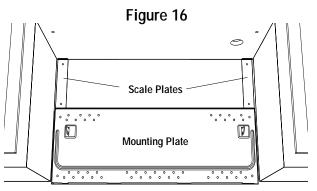
THIS OVEN CANNOT BE PROPERLY INSTALLED WITHOUT REFERRING TO THE MOUNTING INSTRUC-TIONS FOUND ON WALL AND TOP CABINET TEMPLATES.

THE NEXT STEP IS TO READ AND FOLLOW MOUNTING INFORMATION ON WALL AND TOP CABINET TEMPLATES. THIS OVEN MUST BE ATTACHED TO AT LEAST ONE WALL STUD. SEE WALL CONSTRUC-TION ON PAGE 6.

WHEN DONE WITH TEMPLATES, PROCEED TO MOUNTING SCALE PLATE SECTION.

### **MOUNTING SCALE PLATE**

Attach 2 Scale Plates 10 with tape (not included). See Figure 16 and WALL TEMPLATE for locations.

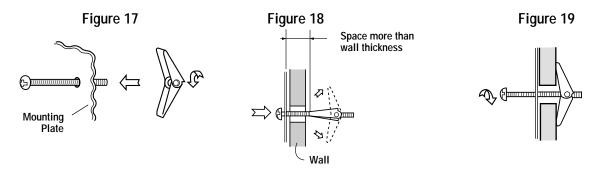


### MOUNTING PLATE

- 1. Separate 4 Toggle Bolts 2, packed in the INSTALLATION HARDWARE, from the Toggle Nuts.
- Match 5/8" holes (not in studs), drilled through WALL TEMPLATE into wall to corresponding holes on Mounting Plate.
- 3. Insert Toggle Bolts into matched openings on Mounting Plate. Put Toggle Nuts on Toggle Bolts. See Figure 17.
- 4. Position the Mounting Plate with the Toggle Bolts attached at the wall location and insert Toggle Nuts and Bolts through the holes in the wall with the Toggle Nuts closed. Figure 18. Use Wood Screws ① to attach the Mounting Plate to studs.

NOTE: Before insertion, be sure you leave a space more than the thickness of the wall between the Mounting Plate and the end of each of the Toggle Nuts (in the closed position). If you do not leave enough space, the Toggle Nut will not be able to open on the other side of the wall. Also, once a Toggle Nut opens, it cannot be withdrawn from the hole; therefore make sure all of the Toggles are in the correct position before insertion.

5. Align the Mounting Plate carefully and hold in position while tightening Toggle Bolts. Pull Toggle Bolt toward you and turn clockwise to tighten. Figure 19.

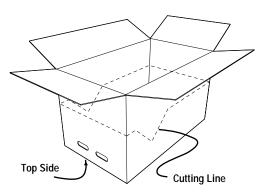


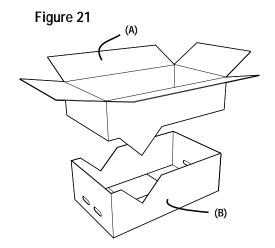
### 10 PREPARATION AND USE OF THE CARTON TO ASSIST IN THE INSTALLATION OF THE MICROWAVE OVEN

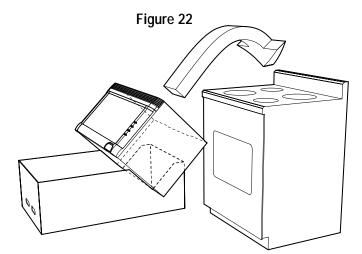
Utilization of the carton may make installation easier.

- 1. Place carton upside down. See Figure 20.
- 2. Using cutting line around the carton, cut into two pieces (A) and (B). See Figure 21.
- 3. Position oven to assist in mounting to the wall. See Figure 22.

Figure 20





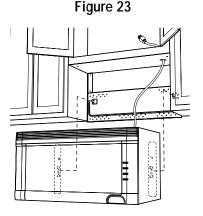


# UNPACKING AND INSTALLATION INSTRUCTIONS

### MOUNTING OVEN TO THE WALL

Two people are recommended to attach the Microwave Oven/Hood to the Mounting Plate.

- 1. Thread the Power Supply Cord through the hole made in the bottom of the top cabinet. Install the oven by snapping it onto the Mounting Plate. See Figure 23.
- 2. Use two Tapping Screws (5) to secure the levers that are on the bottom of the oven. See Figure 24.
- 3. Use two Top Cabinet Screws (3) and two Flat Washers (6), supplied in the INSTALLATION HARDWARE, to attach the unit to the top cabinet. See Figure 25.
- 4. Make a bundle of the Power Supply Cord and attach it to the inside of the cabinet using the Power Cord Hanger
  ④. See Figure 25.



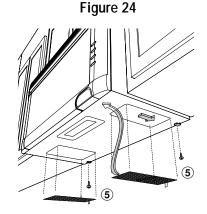
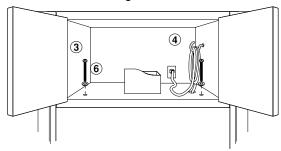


Figure 25



### CHECKLIST FOR INSTALLATION

- 1. Make sure the unit has been installed according to all of the Installation Instructions and the Wall and Top Cabinet Templates.
- 2. Plug in the power cord.
- 3. Keep the Operation Manual and Installation Instructions.

## OPTIONAL ACCESSORIES

#### Two optional accessories are available for this oven.

- 1. Charcoal Filter (RK-240). This is required when hood exhaust is recirculated. See Charcoal Filter on page 32. If dealer does not stock this item, it can be ordered by calling 1-800-642-2122.
- 2. Filler Panel Kit. For use when the oven is installed in a 36-inch or 42-inch wide opening. The metal filler panels come in 3-inch wide pairs. One set is needed for a 36-inch opening and 2 sets for a 42-inch opening. White and black are available.

To purchase contact:

Modern-Aire Ventilating Corporation 7319 Lankershim Blvd. North Hollywood, CA 91605 Phone: (818) 765-9870 Fax: (818) 765-4916

# 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 33 and 34 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. Ventilation openings must not be blocked.

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

All ovens are rated 1000 watts 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.

ABO	UΤ	FO	OD

FOOD	DO	DON'T
Eggs, sausages, nuts, seeds, fruits & vegetables	<ul> <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> <li>Cook eggs in shells.</li> <li>Reheat whole eggs.</li> <li>Dry nuts or seeds in shells.</li> </ul>
Popcorn	<ul> <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> <li>Pop popcorn in regular brown bags or glass bowls.</li> <li>Exceed maximum time on popcorn package.</li> </ul>
Baby food	<ul> <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> <li>Heat disposable bottles.</li> <li>Heat bottles with nipples on.</li> <li>Heat baby food in original jars.</li> </ul>
General	<ul> <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 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> <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<sup>®</sup>), such as Corningware<sup>®</sup>.
- heat-resistant glass (Pyrex<sup>®</sup>)
- 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 28 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.
- ABOUT SAFETY
- Check foods to see that they are cooked to the United States Department of Agriculture's recommended temperatures.

T E M P	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.

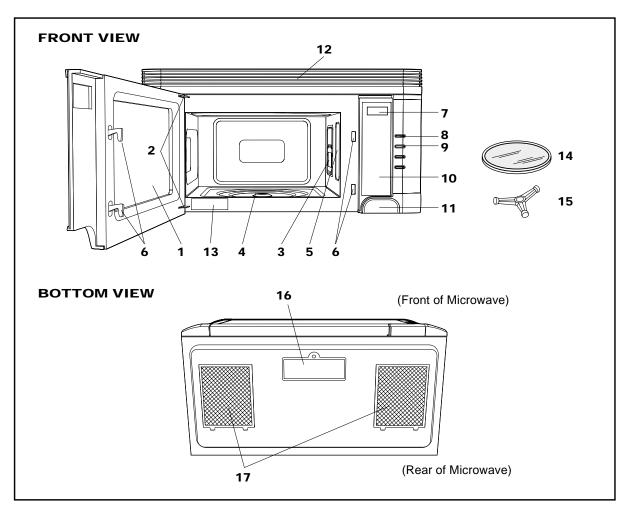
- Rearrange foods such as meatballs halfway through cooking both from top to bottom and from the center of the dish to the outside.
- Add standing time. Remove food from oven and stir, if possible. Cover for standing time which allows the food to finish cooking without overcooking.
- Check for doneness. 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.

- 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



- Oven door with see-through window
   Be careful with the edge of the oven door as it is glass and could chip or break.
- 2 Door hinges
- 3 Waveguide cover: DO NOT REMOVE.
- 4 Turntable motor shaft
- 5 Oven light It will light when oven is operating or door is open.
- 6 Safety door latches The oven will not operate unless the door is securely closed.
- 7 Time display: Digital display, 99 minutes, 99 seconds
- 8 LIGHT Hi/Lo pad Press the LIGHT HI/LO pad one time for hi, twice for lo and three times to turn it off.

9 FAN HI/LO pad

Press the FAN HI/LO pad to turn on the fan. Press again for low speed. Press a third time to turn the fan off.

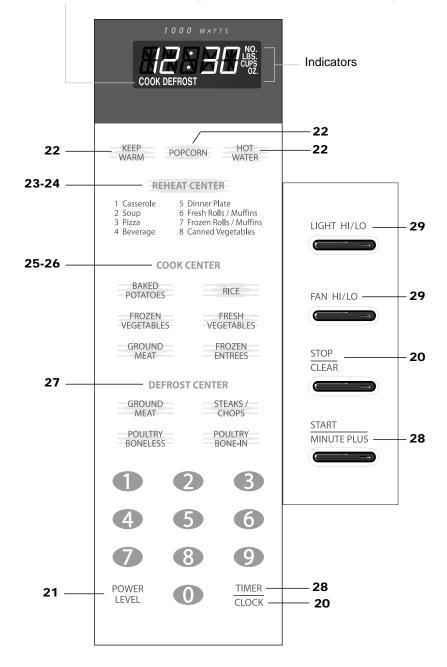
- 10 Auto-Touch control panel
- **11** One touch DOOR OPEN button Push to open door.
- 12 Louver
- 13 Nameplate
- 14 Removable turntable The turntable will rotate clockwise or counterclockwise. Only remove for cleaning.
- 15 Removable turntable support

First, carefully place the turntable support in the motor shaft in the center of the oven floor. Then, place the turntable on the turntable support securely.

- 16 Light cover
- 17 Grease filters

### CONTROL PANEL

Words in the lower portion of the display will light to indicate what function is in progress.



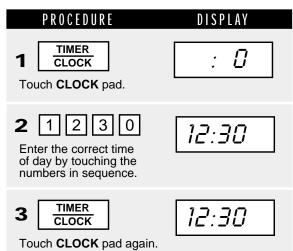
Number next to the control panel illustration indicates pages on which there are feature descriptions and usage information.

## **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:
- 1. Plug in the oven. Close the door. The oven display will then begin flashing BB:BB.
- 2. Touch the **STOP/CLEAR** pad. will appear.
- 3. Set clock.

## TO SET THE CLOCK

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



This is a 12 hour clock. If you attempt to enter an incorrect clock time, *ERRUR* will appear in the display. Touch the **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 BB:BB 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 the STOP/CLEAR pad to:

- 1. Erase if you make a mistake during programming.
- 2. Cancel timer.
- 3. Stop the oven temporarily during cooking.
- 4. Return the time of day to the display.
- 5. 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%.



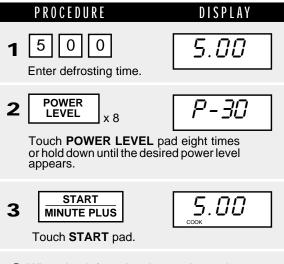
## TO SET POWER LEVEL

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 number of times for desired power	APPROXIMATE Percentage of Power	COMMON WORDS For Power Levels
POWER LEVEL x 1	100%	High
POWER LEVEL x 2	90%	
POWER LEVEL x 3	80%	
POWER LEVEL x 4	70%	Medium High
POWER LEVEL x 5	60%	
POWER LEVEL x 6	50%	Medium
POWER LEVEL x 7	40%	
POWER LEVEL x 8	30%	Med Low/Defrost
POWER LEVEL x 9	20%	
POWER LEVEL x 10	10%	Low
POWER LEVEL x 11	0%	

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



4 When the defrost time is complete, a long tone will sound and END will appear in the display.

## MANUAL DEFROST

If the food that you wish to defrost is not listed on the DEFROST CENTER CHART or is above or below the limits in the "Amount" column on the DEFROST CENTER CHART (see page 27), you need to defrost manually.

You can defrost any frozen food, either raw or previously cooked, by using Power Level for 30%. Follow the exact 4-step procedure found under To Set Power Level. Estimate defrosting time and press **POWER LEVEL** pad eight times for 30% power.

For either raw or previously cooked frozen food the rule of thumb is approximately 4 minutes per pound. For example, defrost 4 minutes for 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 on Power Level 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.

# SPECIAL FEATURES

### **KEEP WARM**

KEEP WARM allows you to keep food warm for 15 minutes.

To use, simply touch the **KEEP WARM** pad. You can also program Keep Warm with manual cooking to keep food warm continuously after cooking.

### DIRECT USE

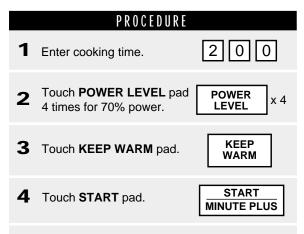
• Suppose you want to keep a cup of soup warm for 15 minutes.



The display will count down. [KEEP][URR] will appear in the display every 10 seconds and count down for 15 minutes.

### WITH MANUAL COOKING

• Suppose you want to cook a cup of soup for 2 minutes at 70% and keep the soup warm for 15 minutes.



The operation will start. When the cooking time is complete, a long tone will sound and Keep Warm will start. <u>*KEEP URR*</u> will appear in the display every 10 seconds and count down for 15 minutes.

#### NOTE:

Keep Warm cannot be programmed with SPECIAL FEATURES.

### POPCORN

This setting works well with most brands of microwave popcorn. You may wish to try several and choose your favorite. Pop only one bag at a time. Unfold bag and place in oven according to directions.

Touch **POPCORN** once for regular (3.5 oz bag).

Touch **POPCORN** twice within 2 seconds for light regular (2.85 - 3.5 oz bag).

Touch **POPCORN** three times within 3 seconds for snack (1.5 or 1.75 oz).

Suppose you want to make a regular size bag of popcorn.



## HOT WATER

HOT WATER heats 1 to 6 cups of tap water to prepare coffee, tea, bouillon and instant soup as well as heat the water to cook pasta. When preparing individual cups, place instant coffee, tea or bouillon in cup and stir before heating. Allow to stand 20 seconds after heating before stirring and drinking. Stir carefully after removing from the oven. When heating 4 to 6 cups of water, place in large casserole and cover with lid or plastic wrap. When oven signals, add pasta and continue cooking according to package directions. Touch **HOT WATER** pad once for each cup up to 6.

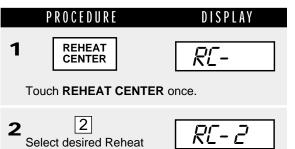
• Suppose you want to heat 3 cups of water.



## REHEAT CENTER

REHEAT CENTER automatically computes the correct warming and heating time and microwave power level for foods shown in the chart below.

• Suppose you want to reheat 3 cups of soup.



Center setting. (Ex: touch number pad 2 to select 1 cup of soup.



2 3 CUPS Repeat touching same number pad 2 to

increase quantity to 3 cups. (Ex: touch two more times for 3 cups or hold down until the desired quantity appears.)

### NOTE:

- 1. To increase quantity, touch same number pad for chosen food until number in display is same as desired quantity. Ex: To increase the quantity for pizza, touch 3 repeatedly.
- 2. To reheat different foods or foods above or below the quantity allowed on the REHEAT CENTER CHART, use manual operation.
- 3. Reheat Center can be programmed with More or Less Time Adjustment. See page 28.

## REHEAT CENTER CHART

FOOD	AMOUNT	P R O C E D U R E
1. Casserole	1-6 cups	Use this pad to reheat refrigerated canned or homemade pasta with sauce or other cooked casserole. For room temperature pasta or casserole, use Less option (see page 28). 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, let stand, covered, 2 to 3 minutes.
2. Soup	1-6 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	1-6 slices	Use this pad to reheat refrigerated leftover pizza. One slice is approximately 1/8th of a 12 inch pizza or 1/12th of a 16 inch pizza. Place on paper towel.
4. Beverage	.5-2.0 cups	This setting is good for restoring cooled beverages to a better drinking temperature. Stir liquid briskly before heating to avoid "eruption." Touch number 4 pad for a 0.5 cup increase per touch. Allow to stand 20 seconds after heating before stirring and drinking.

# <u>SPECIAL FEATURES</u>

## REHEAT CENTER CHART (continued)

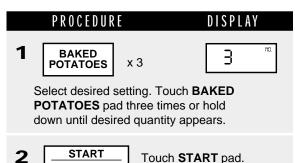
F 0 0 D	A M O U N T	P R O C E D U R E
5. Dinner Plate	1 plate	Use this pad to reheat precooked foods from the refrigerator. Place meaty portions and bulky vegetables to outside of plate. Cut large items like baked potatoes in smaller pieces. Flatten foods such as mashed potatoes and other dense foods. Cover with wax paper or plastic wrap. ONE PLATE ONLY. 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 CENTER</b> and then the number pad <b>5</b> once 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 CENTER</b> and then the number pad <b>5</b> twice within 2 seconds for a larger amount of food on a dinner plate. <i>LRR5E</i> will appear in the display.
	1 Small	Touch <b>REHEAT CENTER</b> and then the number pad <b>5</b> three times within 3 seconds for a smaller amount of food on a dinner plate. <b>STRLL</b> will appear in the display.
6. Fresh Rolls/ Muffins	1-8	Use this pad to warm rolls, muffins, biscuits, bagels etc. Large items should be considered as 2 or 3 regular size. Arrange on plate; cover 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. Touch number 6 pad to increase quantity.
7. Frozen Rolls/Muffins	1-8	Use this pad to warm frozen rolls, muffins, biscuits, bagels, etc. Large items should be considered as 2 or 3 regular size. Arrange on plate, cover with paper towel. Touch number 7 pad to increase quantity.
8. Canned Vegetables	1 cup cooked vegetables or 1 (8 oz.) can vegetables	For 1 (8 oz.) can of vegetables, add 1 tablespoon of liquid from the can. Touch <b>REHEAT CENTER</b> and the number pad <b>8</b> .
	1 3/4 cups cooked vegetables or 1 (15 oz.) can vegetables	For 1 (15 oz.) can of vegetables, add 2 tablespoons of liquid from the can. Touch <b>REHEAT CENTER</b> and the number pad <b>8</b> twice

## COOK CENTER

**MINUTE PLUS** 

COOK CENTER allows you to cook many of your favorite foods by touching just one pad.

• Suppose you want to cook 3 medium baked potatoes.



**TIPS:** Foods can be covered with wax paper or vented plastic wrap. Temperatures of foods covered with plastic wrap tend to be slightly higher than those covered with wax paper.

## COOK CENTER CHART

#### NOTE:

- To increase quantity, touch chosen pad until number in display is same as desired quantity to cook. Ex: touch FROZEN VEGETABLES three times for three cups. More or less food than the quantity listed in the chart should be cooked following the guidelines in any microwave cookbook.
- 2. Cook Center can be programmed with More or Less Time Adjustment. See page 28.
- 3. The final cooking result will vary according to the food condition (e.g. initial temperature, shape, quality). Check food for temperature after cooking. If additional time is needed, continue to cook manually.

FOOD	A M O U N T	P R O C E D U R E			
BAKED POTATOES	1-6 medium	Pierce with fork in several places; place on paper towel on turntable. At end of cooking time, remove from oven, wrap in foil and let stand 5 to 10 minutes.			
RICE	.5-2.0 cups	Place rice into a deep casserole dish and add double quantity of water. Cover with lid or plastic wrap. After cooking, stir, cover and let stand 3 to 5 minutes or until all liquid has been absorbed.			
			Rice	Water	Size of casserole dish
			.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
FROZEN VEGETABLES	1-6 cups S		vater. Cover w for 3 minutes.	ith lid or plastic	wrap. After cooking, stir and let stand,
FRESH VEGETABLES	1-6 cups S	For beans, carrots, corn and peas, add 1 tablespoon of water per cup. For broccoli, Brussels sprouts, cabbage and cauliflower, cook immediately after washing with no additional water. If you like tender crisp vegetables, double or triple measured quantity per setting. For example, use 2 cups or 3 cups of zucchini but touch <b>FRESH VEGETABLES</b> only once. After cooking, remove from oven, stir, cover and let stand 3 to 5 minutes before serving.			

# SPECIAL FEATURES

## COOK CENTER CHART (continued)

F 0 0 D	A M O U N T	P R O C E D U R E		
GROUND MEAT	.3-2.0 lb	Use this setting to cook ground beef or poultry 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. When oven stops, turn patties over or stir meat in casserole to break up large pieces. Re-cover and touch <b>START</b> . After cooking, let stand, covered, for 2 to 3 minutes.		
		Press GROUND MEAT pad for Amount		
		Once       0.3 lb         Twice       0.5 lb         3 times       1.0 lb         4 times       1.5 lb         5 times       2.0 lb         You may also choose to enter the weight in tenths of pounds. To program, touch         GROUND MEAT pad and enter weight by touching the number pads. Ex: touch         GROUND MEAT pad, then 1 and 5 for a weight of 1.5 lb. If you attempt to enter         more or less than the allowed amount, <i>ERROR</i> will appear in the display.         The number pads should be touched within 2 seconds after touching         GROUND MEAT pad.		
FROZEN ENTREES	6-17 oz	Use this pad 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>FROZEN ENTREES</b> once for package weight of 6-8 oz. <u>5-8</u> will appear in the display.		
	9-11 oz	Touch <b>FROZEN ENTREES</b> twice for package weight of 9-11 oz. 9-11 will appear in the display.		
	12-14 oz	Touch <b>FROZEN ENTREES</b> three times for package weight of 12-14 oz.		
	15-17 oz	Touch <b>FROZEN ENTREES</b> four times for package weight of 15-17 oz.		

\_\_\_\_\_

## DEFROST CENTER

DEFROST CENTER automatically defrosts all the foods shown in the DEFROST CENTER CHART below.

Round the weight to the nearest half pound. (Ex: if the steak's actual weight is 2.2 lb round to 2.0 lb. If the steak's weight is 2.4 lb round to 2.5 lb).

To enter weight, touch the desired **DEFROST CENTER** pad for a 0.5 lb increase per touch. (Ex: touch four times for 2.0 lb).

• Suppose you want to defrost a 2.0 pound steak .



Quickly touch **STEAKS/CHOPS** pad 4 times or hold down until desired quantity appears. Touch **START** pad.

The oven will stop and directions will be displayed.

**2** After the 1st stage, open the door, turn steak over and shield any warm portions. Close the

door. START MINUTE PLUS Touch START pad.

After the 2nd stage, open the door and shield any warm portions. Close the door.

**DEFROST CENTER CHART** 

START MINUTE PLUS

3

Touch START pad.

**4** After defrost cycle ends, cover and let stand as indicated in chart below.

### NOTE:

- 1. Defrost Center can be programmed with More or Less Time Adjustment. Touch the **POWER LEVEL** pad once or twice after selecting the amount. See page 28.
- To defrost other foods or foods above or below the weights allowed on the DEFROST CENTER CHART, use time and 30% power. See MANUAL DEFROST on page 21.
- You may choose to enter the weight in tenths of pounds. This procedure may be easier with larger weights such as 4 pounds because it requires fewer touches. To program, touch desired DEFROST CENTER pad and enter weight by touching the number pads. (Ex: touch STEAKS/CHOPS pad then 3 and 0 for a weight of three pounds or touch STEAKS/CHOPS pad, then 2 and 2 for a weight of 2.2 lb.)

If you attempt to enter more or less than the allowed amount as indicated in the chart below, *ERROR* will appear in the display.

FOOD	AMOUNT	P R O C E D U R E
GROUND MEAT	.5 - 2.0 lb	Pull apart and remove any thawed pieces after each stage. Let stand, covered, for 5 to 10 minutes.
STEAKS/ CHOPS	.5 - 3.0 lb	After each stage, rearrange and if there are warm or thawed portions, shield with small flat pieces of aluminum foil. Remove any meat or fish that is nearly defrosted. Let stand, covered, for 10 to 20 minutes.
POULTRY BONELESS	.5 - 2.0 lb	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.
POULTRY BONE-IN	.5 - 3.0 lb	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.

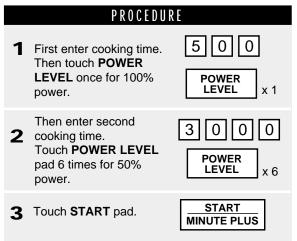
# OTHER CONVENIENT FEATURES

### 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%.

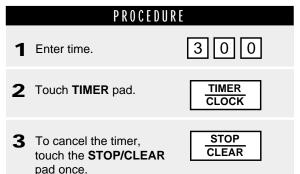


### NOTE:

- 1. If **POWER LEVEL** pad is touched, *P-H* will be displayed.
- 2. If 100% is selected as the final sequence, it is not necessary to touch the **POWER LEVEL** pad.
- 3. Keep Warm can be programmed even if 3 cooking sequences have been set.

### TIMER

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



## MORE OR LESS TIME ADJUSTMENT

Should you discover that you like any of the Cook Center, Defrost Center, Reheat Center, Popcorn or Hot water settings slightly **more** done, touch the **POWER LEVEL** pad **once** after touching your choice of pads or before touching **START** pad. The display will show *TORE*.

Should you discover that you like any of the Cook Center, Defrost Center, Reheat Center, Popcorn or Hot water settings slightly **less** done, touch the **POWER LEVEL** pad **twice** after touching your choice of pads or before touching **START** pad. The display will show *LE55*.

### **MINUTE PLUS**

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

• Suppose you want to heat a cup of soup for one minute.

### PROCEDURE

Touch MINUTE PLUS pad.

START MINUTE PLUS

### NOTE:

- 1. To use Minute Plus, touch pad within 3 minutes after cooking, closing the door, touching the **STOP/CLEAR** pad or during cooking.
- 2. Minute Plus cannot be used with special features.

### 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** pad, the number 1 and then touch the **START** pad and hold for three seconds. Should a pad be touched,  $\boxed{LOCK}$  will appear in the display.

To cancel, touch **TIMER/CLOCK**, the number **1** and **STOP/CLEAR** pads.

### AUDIBLE SIGNAL ELIMINATION

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

To cancel and restore the audible signal, touch TIMER/CLOCK, the number  $\boxed{5}$  and STOP/CLEAR pads.

## **DEMONSTRATION MODE**

To demonstrate, touch **TIMER/CLOCK**, the number  $\boxed{0}$  and then touch the **START** pad and hold for three seconds.  $\boxed{DE7D}$  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  $\boxed{DDD}$  and count down quickly to  $\boxed{EnD}$ .

To cancel, touch **TIMER/CLOCK**, the number **1** and **STOP/CLEAR** pads. If easier, unplug the oven from the electrical outlet and replug.

## LIGHT HI/LO

Press the **LIGHT HI/LO** pad one time for high, twice for low and three times to turn it off.

## FAN HI/LO

The fan will automatically start when heat rises from range surface units or burners. This protects the microwave oven from excessive temperature rise. The fan will stay on until the temperature decreases. It cannot be turned off manually during this time.

For other uses, press **FAN HI/LO** pad to select fan speed or turn fan off.

## 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 precoated steel and plastic. Clean the outside with mild soap and water; rinse and dry with a soft cloth. Do not use any type of household or abrasive cleaner.

### Door

Be careful with the edge of the oven door as it is glass and could chip or break. Wipe the window on both sides with a damp cloth to remove any spills or spatters. Metal parts will be easier to maintain if wiped frequently with a 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 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**.

### 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 cloth and warm water. DO NOT USE ABRASIVE OR HARSH CLEANERS OR SCOURING PADS. For heavier soil, use baking soda or a mild soap; rinse thoroughly with hot water. The rack can be cleaned with hot soapy water, rinsed and dried.

### **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 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.

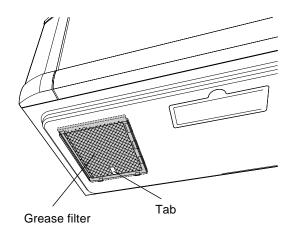
### Waveguide Cover

The waveguide cover is located on the right side wall of the oven cavity. It is made from mica so requires special care. Keep the waveguide cover clean to assure good oven performance. Carefully wipe with a 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.

### **Grease Filters**

Filters should be cleaned at least once a month. Never operate the fan or oven without the filters in place.

- 1. Pull down slightly on the tab toward the front of the oven and remove the filter. Repeat for the other filter.
- Soak the filters in a sink or dish pan filled with hot water and detergent. DO NOT use ammonia or other alkali; they will react with the filter material and darken it.
- 3. Agitate and scrub with a brush to remove embedded dirt.
- 4. Rinse thoroughly and shake dry.
- 5. Replace by fitting the filter back into the opening.



## REPLACING PARTS

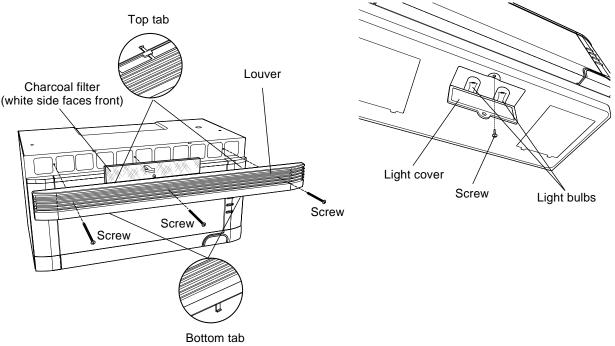
### CHARCOAL FILTER

Charcoal Filter, Sharp part number RK-240 which was installed in your oven, is used for nonvented, recirculated installation. The filter should be changed every 6 to 12 months depending on use. See page 14 for ordering information.

- 1. Disconnect power to the oven at the circuit breaker panel or by unplugging.
- 2. Remove the three louver mounting screws and push down carefully on the tab at each end of the louver to disengage it. (See illustration.)
- 3. Pull the louver away from the unit.
- 4. Change the charcoal filter.
- 5. Carefully push the louver back into place (engaging both the bottom and top tabs) and replace the screws removed in step 2.

### WORK LIGHT AND NIGHT LIGHT

- 1. To replace light bulbs, first disconnect power to the oven at the circuit breaker panel or by unplugging.
- 2. To release cover, remove the screw on the light cover. (See illustration.)
- Replace light bulbs with equivalent watt bulb available from your Sharp Authorized Servicer or parts distributor. Bulbs are also available at most hardware stores or lighting centers. DO NOT USE A BULB LARGER THAN 30 WATTS.
- 4. Close light cover and secure with screw removed in step 2.
- CAUTION: Light cover may become very hot. Do not touch glass when light is on.



## SERVICE CALL CHECK

Please check the following before calling for service:

Place one cup of water in a glass measuring cup in the oven and close the door securely. Operate the oven for one minute at HIGH 100%.

Α	Does the oven light come on?	YES	NO
в	Does the cooling fan work? (Put your hand over the left side of louver.)	YES	NO
С	Does the turntable rotate? (It is normal for the turntable to turn in either direction.)	YES	NO
D	Is the water in the oven warm?	YES	NO

If "NO" is the answer to any of the above questions, please check electrical outlet, fuse and/or circuit breaker. If they are functioning properly, CONTACT YOUR NEAREST SHARP AUTHORIZED SERVICER. A microwave oven should never be serviced by a "do-it-yourself" repair person.

**NOTE:** If time appearing in the display is counting down very rapidly, check Demonstration Mode on page 29 and cancel.

# **SPECIFICATIONS**

	R-1500, R-1501, R-1502, R-1505, R-1506
AC Line Voltage:	Single phase 120V, 60Hz, AC only
AC Power Required:	1640 watts, 14.0 amps.
Output Power:	1000 watts* (IEC Test Procedure)
Frequency:	2450 MHz
Outside Dimensions:	29 15/16"(W) x 16 1/4"(H) x 15 9/16"(D)
Cavity Dimensions:	17 1/2"(W) x 9 7/8"(H) x 14 15/16"(D)
Oven Capacity:	1.5 Cu. Ft.
Cooking Uniformity:	Turntable system
Weight:	Approx. 55 lb

★ The International Electrotechnical Commission's standardized method for measuring output wattage. This test method is widely recognized.

In compliance with standards set by:

- FCC Federal Communications Commission Authorized.
- DHHS Complies with Department of Health and Human Services (DHHS) rule, CFR, Title 21, Chapter I, Subchapter J.
  - This symbol on the nameplate means the product is listed by Underwriters Laboratories, Inc.

## **REHEATING CHART**

ITEM	STARTING TEMPERATURE	MICROWAVE TIME	PROCEDURE	
Plate of Food 1 serving of meat, 2 servings of vegetables	Room temp. Refrigerated	MEDHIGH (70%) 11/2-2 3/4 min. 2 3/4-4 min.	Meaty portions and bulky vegetables to outside. Cover with wax paper.	
Meat (Chicken pieces, chops, hamburgers, meat loaf slices) 1 serving 2 servings	Refrigerated Refrigerated	MEDHIGH (70%) 1-2 min. 2-4 min.	Cover loosely with wax paper.	
<b>Meat Slices</b> (Beef, ham, pork, turkey) 1 or more servings	Room temp. Refrigerated	MEDIUM (50%) 1-1 3/4 min. per serving 1 1/2-2 1/2 min. per serving	Cover with gravy or wax paper. Check after 30 sec. per serving.	
Stirrable Casseroles and Main Dishes 1 serving 2 servings 4-6 servings	Refrigerated Refrigerated Refrigerated	HIGH (100%) 2 3/4-3 1/2 min. 5 - 6 3/4 min. 9 -10 min.	Cover with plastic wrap. Stir after half the time.	
Nonstirrable Casseroles and Main Dishes 1 serving 2 servings 4-6 servings	Refrigerated Refrigerated Refrigerated	MEDIUM (50%) 4 1/2-7 1/2 min. 7 1/2-11 min. 12-15 min.	Cover with wax paper.	
After reheating, food should be very hot-165°F. If possible, stir food, cover and allow to stand two to three				

After reheating, food should be very hot-165°F. If possible, stir food, cover and allow to stand two to three minutes before serving.

# THE ULTIMATE ACCESSORY

- Great recipes
- Reliable microwave reference guide
- Many color photos
- Step-by-step instructions
- Nutritional information for each recipe
- Durable wipe-clean
   soft cover with 128
   8 <sup>1</sup>/<sub>2</sub> x 11 pages
- Helpful tips and special techniques

## SHARP CAROUSEL MICROWAVE COOKBOOK

### **TO ORDER**

Simply call this toll-free number : **1-800-642-2122**. Please have your credit card ready.

If you prefer to order by mail, complete and return the order form on page 34. Please include check or money order (payable to Sharp Accessories & Supplies Center) for \$6.00 plus \$4.25 shipping & handling and tax, if applicable, per book.

### SATISFACTION GUARANTEED

You must be completely satisfied with the Sharp Carousel Microwave Cookbook. If, within 14 days, you are dissatisfied for any reason, simply return the book and we'll gladly refund your \$6.00 plus tax.

(SOLAMENTE ESCRITO EN INGLES!)

### **REHEATING CHART** (continued)

ITEM	STARTING TEMPERATURE	MICROWAVE TIME	PROCEDURE
<b>Soup, Cream</b> 1 cup 1 can (10 3/4 oz)	Refrigerated Room temp.	MEDIUM (50%) 2-5 1/2 min. 5-7 1/2 min.	Cover. Stir after half the time.
<b>Soup, Clear</b> 1 cup 1 can (10 3/4 oz)	Refrigerated Room temp.	HIGH (100%) 2-3 min. 3 1/2-7 min.	Cover. Stir after half the time.
<b>Pizza</b> 1 slice 1 slice 2 slices 2 slices	Room temp. Refrigerated Room temp. Refrigerated	HIGH (100%) 15-25 sec. 25-35 sec. 25-35 sec. 55-60 sec.	Place on paper towel on microwave-safe rack.
Vegetables 1 serving 2 servings	Refrigerated Refrigerated	HIGH (100%) 3/4-1 1/4 min. 1 1/2-2 min.	Cover. Stir after half the time.
Baked Potato 1 2	Refrigerated Refrigerated	HIGH (100%) 1-2 1/2 min. 2 1/2-3 min.	Cut potato lengthwise and then several times crosswise. Cover with wax paper.
<b>Breads</b> (Dinner or breakfast roll) 1 roll 2 rolls 4 rolls	Room temp. Room temp. Room temp.	HIGH (100%) 10-12 sec. 15-18 sec. 25-30 sec.	Wrap single roll, bagel or muffin in paper towel. To reheat several, line plate with paper towel; cover with another paper towel.

Cut along this line.

# COOKBOOK ORDER FORM

Please send me cookbooks at \$10.25 each	\$
Illinois sales tax, (if applicable) per book \$.44 no. of books	\$
Other tax, (if applicable) no. of books	\$
TOTAL ORDER AMOUNT	\$
I have enclosed a check made payable to Sharp Accessories & Supplies C	
Please bill my VISA MASTERCARD AMERICAN E	KPRESS
Acct. No Expiration date _	/
Signature	
(All credit card orders must be signed.)	
Name	
Address	
CityStateZip	<u>.</u>
Daytime Phone No. ( )	
Mail to: SHARP Accessories & Supplies Center Price is subject to change with 2130 Townline Road Peoria, Illinois 61615–1560	nout notice.

## **VEGETABLE COOKING CHART**

VEGETABLE	AMOUNT	COOKING PROCEDURE	MICROWAVE TIME AT HIGH (100%)	STANDING TIME, Covered
<b>Artichokes</b> Fresh	2 medium	Trim and rinse. 2-qt casserole. 2 tbsp water. Cover with plastic wrap.	5-8 min.	5 min.
<b>Asparagus</b> Fresh Spears	1 lb	2-qt casserole. 2 tbsp water. Cover. Rearrange after 3 min.	4-7 min.	2 min.
Beans Fresh, Green and Wax	1 lb	1 1/2-in pieces, 2-qt casserole. 1/4 cup water. Cover. Stir twice.	9-13 min.	2 min.
<b>Beets</b> Fresh, Whole	5 medium	Wash. Leave 1 inch of tops. 2-qt casserole. 1/4 cup water. Cover. Stir every 5 min.	12-18 min.	3 min.
<b>Broccoli</b> Fresh, Spears	1 lb	Wash. 2-qt casserole. Add no water Cover. Rearrange after 3 min. Uncover during stand.	. 6-8 min.	3 min. <b>uncovered</b>
Fresh, Pieces	1 lb	Wash. 2-qt casserole. Add no water Cover. Stir after 3 min. Uncover during stand.	. 5-7 min.	2 min. <b>uncovered</b>
<b>Brussels Spro</b> u Fresh	uts 4 cups	2-qt casserole. 1/4 cup water. Cover. Stir after 2 min.	6-8 min.	3 min.
Cabbage Shredded	1 lb	2-qt casserole. 2 tbsp water. Cover. Stir, after 4 min.	8-12 min.	2 min.
Wedges	1 lb	2-qt casserole. 2 tbsp water. Cover. Rearrange after 5 min.	12-14 min.	3 min.
<b>Carrots</b> Fresh, Slices	2 cups	1-qt casserole, 2 tbsp water. Cover. Stir after 3 min.	5-8 min.	3 min.
<b>Cauliflower</b> Fresh, Floweret	s 2 cups	1-qt casserole. 1 tbsp water.	3-5 min.	2 min.
Fresh, Whole	1 1/2 lb	Cover. Stir after 2 min. Remove leaves and core center. 2-qt casserole. 2 tbsp water. Cover.	7-9 min.	3 min.
<b>Corn</b> Fresh, on Cob	2 ears	9-in pie plate. 2 tbsp water.	6-9 min.	5 min.
	4 ears	Cover. Rearrange after 4 min. 2-qt oval or rectangular casserole. 1/4 cup water. Cover.	12-14 min.	5 min.
Frozen, on Cob		9-in pie plate. 2 tbsp water. Cover. Rearrange after 4 min.	6-8 min.	5 min.
	4 ears	2-qt oval or rectangular casserole. 1/4 cup water. Cover.	10-12 min.	5 min.

## VEGETABLE COOKING CHART (continued)

VEGETABLE	AMOUNT	COOKING PROCEDURE	MICROWAVE TIME At high (100%)	STANDING TIME, Covered
<b>Peas, Green</b> Fresh	2 cups	1-qt casserole. 1/4 cup water. Cover. Stir after 3 min.	4-6 min.	3 min.
Potatoes Boiled	4 medium	Peel and quarter potatoes. 2-qt casserole. Cover. Stir after 5 min.	9-12 min.	3 min.
<b>Spinach</b> Fresh	1 lb	Wash and trim. Add no water. 3-qt casserole. Cover. Stir after 3 min.	5-7 min.	2 min.
<b>Squash</b> Fresh, Acorn Fresh, Sliced Zucchini	1 whole 2 cups	Prick; place on paper towel. Turn over after 4 min. 1-qt casserole. Add no water. Cover. Stir after 2 min. 1-qt casserole. Add no water. Cove	7-10 min. r. 2-4 min.	5 min. 1 min.
Sweet Potatoes Baked	2 medium 4 medium	Prick; place on paper towels. Turn over, rearrange after 5 min.	5-9 min. 10-13 min.	5 min. 5 min.
<b>Tomatoes</b> Fresh	2 medium 4 medium	Halve tomatoes. Round dish. Cover. Rearrange once.	2-4 min. 5-8 min.	2 min. 2 min.
Canned Vegetables	15 to 16 oz	1-qt casserole. Drain all but 2 tbsp liquid. Stir once.	2-4 min.	2 min.

## POULTRY ROASTING CHART

CUT	COOKING PREPARATION	MICROWAVE Procedure	INTERNAL TEMP. AT Removal	INTERNAL TEMP. After standing
CHICKEN Whole	Breast side down on rack. Cover with plastic wrap. Turn over halfway through cooking time.	MEDHIGH (70%) 5-8 min. per lb	170°F	180°F
Pieces Bone-in Boneless	Rack. Cover with plastic wrap. Turn over halfway through cooking time.	HIGH (100%) 5-7 1/2 min. per lb 4-7 min. per lb	170°F 160°F	180°F 170°F
TURKEY Whole (up to 10 lb)	Breast side down on rack. Cover with plastic wrap. Turn over halfway through cooking time.	MED. (50%) 10-14 min. per lb	170°F	180°F
Breast Bone-in Boneless	Rack. Cover with plastic wrap. Turn over halfway through cooking time.	MED. (50%) 11-15 min. per lb 14-18 min. per lb	160°F 160°F	170°F 170°F

# N O T E S

# GUIA AUTO-TOUCH



# <u>AUTO-TOUCH GUIDE</u>

#### Continued from back cover.

### **DEFROST CENTER**

1 For example, quickly touch STEAKS/CHOPS pad 4 times for 2.0 lb. Touch START pad.

STEAKS CHOPS × 4

The oven will stop and directions will be displayed. Follow the indicated message.

2 After the 1st stage, open the door, turn steak over and shield any warm portions. Close the door. Touch **START** pad.

3	After the 2nd stage, open the
	door and shield any warm
	portions. Close the door. Touch
	START pad.

4 After defrost cycle ends, cover and let stand.





### DEFROST CENTER CHART

FOOD	A M O U N T
GROUND MEAT	.5 - 2.0 lb
STEAKS/CHOPS (FISH)	.5 - 3.0 lb
POULTRY BONELESS	.5 - 2.0 lb
POULTRY BONE-IN	.5 - 3.0 lb

## GUIA AUTO-TOUCH

Continuado de la página 38.

#### **DESCONGELACION AUTOMATICA**

1 Por ejemplo, pulse rapidamente STEAKS/CHOPS en 4 ocasiones para 2 libras. Pulse la tecla START.

El horno se detendrá automáticamente y en la pantalla podrá observar diversas indicaciones. Siga los mensajes indicados.

- 2 Después de concluir la 1ra etapa, abra la puerta y levante el bistec, limpie el agua, coloque nuevamente el bistec. Cierre la puerta. Pulse la tecla **START**.
- **3** Después de la 2da etapa, abra la puerta y repita el proceso del paso 2. Cierre la puerta. Pulse la tecla **START**.
- 4 Después que el ciclo de descongelamiento concluya, deje reposar el alimento.

STEAKS CHOPS × 4			
START MINUTE PLUS			

OTADT			
START			
MINUTE PLUS			

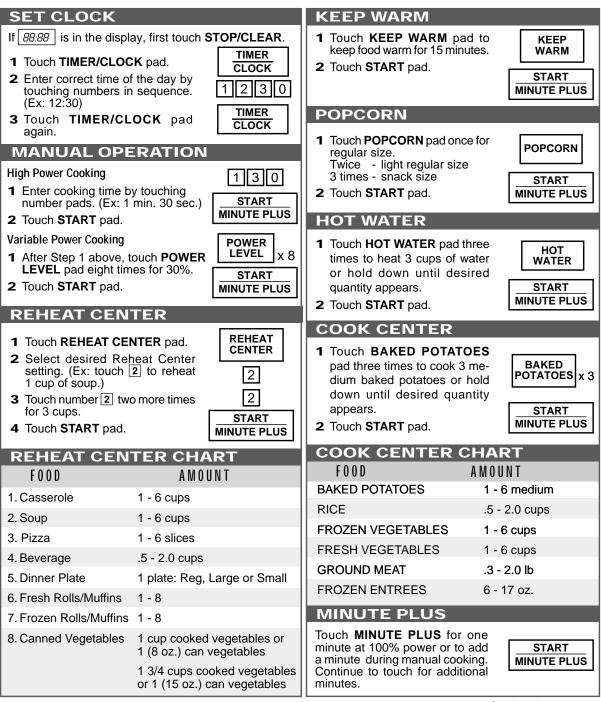


### DESCONGELACION AUTOMATICA

TIPO DE COMIDA	CANTIDAD
CARNE MOLIDA	,5 a 2,0 Libras
BISTEC/CHULETAS (PESCADO)	,5 a 3,0 Libras
POLLO SIN HUESO	,5 a 2,0 Libras
POLLO CON HUESO	,5 a 3,0 Libras

# AUTO-TOUCH GUIDE

For more complete information and safety precautions, refer to your Operation Manual.



Continued on page 39.

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**SHARP** 

