

SHARP®

Carousel®

O V E R T H E R A N G E

M I C R O W A V E O V E N

**INTERACTIVE
COOKING SYSTEM**

MODELS

R - 1850A

R - 1851A

R - 1852A



O P E R A T I O N M A N U A L

Read all instructions carefully before using the oven.

PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- (a) Do not attempt to operate this oven with the door open since open-door operation can result in harmful exposure to microwave energy. It is important not to defeat or tamper with the safety interlocks.
- (b) Do not place any object between the oven front face and the door or allow soil or cleaner residue to accumulate on sealing surfaces.
- (c) Do not operate the oven if it is damaged. It is particularly important that the oven door close properly and that there is no damage to the: (1) door (bent), (2) hinges and latches (broken or loosened), (3) door seals and sealing surfaces.
- (d) The oven should not be adjusted or repaired by anyone except properly qualified service personnel.

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 _____	SERIAL NUMBER _____
DATE OF PURCHASE _____	
DEALER _____	TELEPHONE _____
SERVICER _____	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

DIAL (201)529-8703 for :
COOKING ASSISTANCE

TO WRITE:

For cooking and operation questions:

Susan Edwards/Test Kitchen
Sharp Electronics Corporation
Sharp Plaza, Box 650
Mahwah, NJ 07430-2135

For service problems, warranty information, missing items and other assistance:

Sharp Electronics Corporation
Customer Assistance Center
1300 Naperville Drive
Romeoville, IL 60441-1091

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.

TO ACCESS INTERNET: www.sharp-usa.com

Precautions to Avoid Possible Exposure to Excessive Microwave Energy	Inside Front Cover	Sensor Cook Recipes	16-17
For Customer Assistance	Inside Front Cover	Convection Operation	18
Contents	1	Convection/Automatic Mix Cooking.....	18
Limited Warranty	2	To Cook with Convection.....	18
Product Information Card	2	To Preheat and Cook with Convection.....	18
Important Safety Instructions	3	To Broil	18
Unpacking Instructions	4	To Slow Cook	18
Accessories	4	Automatic Mix Cooking.....	19
Grounding Instructions	4	To Cook with Automatic Mix.....	19
Information You Need to Know	5	To Preheat and Cook with Automatic Mix.....	19
About Your Oven.....	5	CompuRoast.....	20
About Food.....	5	CompuRoast Chart.....	20
About Microwave Cooking.....	6	CompuBake.....	21
About Safety.....	6	CompuBake Chart.....	21
About Children and the Microwave.....	6	CompuBroil.....	22
About Utensils and Coverings.....	7	CompuBroil Chart.....	22
Part Names	8	Other Convenient Features	23
Touch Control Panel	9	Multiple Sequence Cooking.....	23
Before Operating	10	More/Less Time Adjustment.....	23
To Set the Clock.....	10	Kitchen Timer.....	23
Stop/Clear.....	10	Minute Plus.....	23
Manual Operation	10	Touch On.....	23
Turntable On/Off.....	10	Custom Help.....	24
Hood Light/Hood Fan.....	11	Demonstration Mode.....	24
Time Cooking Microwave.....	11	Safety Lock.....	24
Keep Warm.....	11	Audible Signal Elimination.....	24
Special Features	12	Auto Start.....	24
CompuDefrost.....	12	Language Selection.....	24
CompuDefrost Chart.....	12	Weight/Temp Selection.....	24
Manual Defrost.....	13	Help.....	24
Sensor Cooking.....	13	Service Call Check	25
Instant Sensors.....	14	Specifications	25
Instant Sensor Reheat.....	14	Cleaning and Care	26-27
Instant Sensor Popcorn.....	14	THE ULTIMATE ACCESSORY	28
Popcorn Chart.....	14	Guia Auto-Touch	Parte Interior de la
Instant Sensor Chart.....	14		Cubierta Trasera
Sensor Cook.....	15	Auto-Touch Guide	Back Cover
Sensor Cook Chart.....	15		

INTERACTIVE COOKING SYSTEM

The Interactive Cooking System offers step-by-step instructions in the display for using the oven, from setting the clock to programming each feature. It also includes Custom Help for instructions on using Safety Lock, Audible Signal Elimination, Auto Start and Help. There is a choice of English, Spanish or French and a choice of U.S. Customary Unit-pound or Metric-kilograms. Touch CUSTOM HELP and follow the directions displayed or check page 24.

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-1850A, R-1851A and R-1852A Home Use Carousel Microwave Oven.
(Be sure to have this information available when you need service for your Product.)

Warranty Period for this Product:

Two (2) year parts and labor in-home service. For in-home service, the servicer will come to the unit's location. If it is necessary to remove the unit for repair, the servicer will reinstall the unit at no extra charge. The warranty period continues for an additional five (5) years, for a total of seven (7) years, with respect to the magnetron tube in the Product for parts only. Labor is not provided free of charge for this additional period.

Additional Item(s) Excluded from Warranty Coverage (if any):

Accessories, rubber or plastic parts, the turntable, light bulbs, glass parts or any printed materials.

Where to Obtain Service:

From a Sharp Authorized Servicer located in the United States. Be sure to have **Proof of Purchase** available. 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.

PRODUCT INFORMATION CARD

The product information card which is on the inside of the microwave oven carton should be completed within ten days of purchase and returned. 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. Save proof of purchase as it is needed should your oven ever require warranty service.

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 4.
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. 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 or near a swimming pool, and the like.
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 26.
16. To reduce the risk of fire in the oven cavity:
 - a. Do not overcook food. Carefully attend appliance if paper, plastic or other combustible materials are placed inside the oven to facilitate cooking.
 - b. Remove wire twist-ties from paper or plastic bags before placing bag in oven.
 - c. **If materials inside the oven should ignite, keep oven door closed, turn oven off and disconnect the power cord or shut off power at the fuse or circuit breaker panel.**
 - d. Do not use the cavity for storage purposes. Do not leave paper products, cooking utensils or food in the cavity when not in use.
17. Clean ventilation openings and grease filters frequently – Grease should not be allowed to accumulate on ventilation openings, hood (louver) or grease filters.
18. 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.
19. When foods flame under the grease filters, turn the fan off by pushing the FAN button, if possible, or by turning power off at the circuit breaker box. The fan cannot be turned off manually if it had started as a result of heat rising from range units or burners. The fan, if operating, may spread the flame.
20. This appliance is suitable for use above both gas and electric cooking equipment 36" wide or less.

SAVE THESE INSTRUCTIONS

UNPACKING INSTRUCTIONS

Unpacking and Examining Your Oven

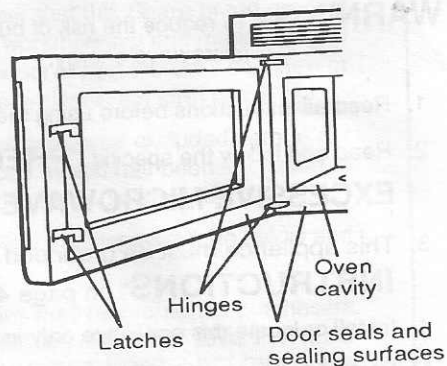
Carefully remove oven from carton. **SAVE THE CARTON AS IT MAY MAKE INSTALLATION EASIER.**

Remove:

1. all packing materials from inside the oven cavity. Check to see that there are Installation Instructions, Wall Template and Top Template. 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.

See Installation Instructions for more details.



ACCESSORIES

Two accessories are available for this oven:

1. Charcoal Filter Kit (RK-220). This is required when hood exhaust is recirculated. See Charcoal Filter Kit on page 27. If your dealer does not stock this item, it can be ordered by calling 1-800-BE-SHARP.
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 pairs, each 3-inches wide. For information contact:
Modern-Aire Manufacturing Corporation
7319 Lankershim Blvd.
North Hollywood, CA 91605
Phone: (818) 765-9870 or (213) 875-1350 Fax (818) 765-4916

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

Check Installation Instructions for proper location for the power supply. 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 the oven be provided.

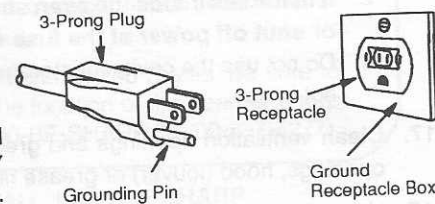
The oven is equipped with a 3-prong grounding plug. It must be plugged into a wall receptacle that is properly installed and grounded. **DO NOT UNDER ANY CIRCUMSTANCES CUT OR REMOVE THE GROUNDING PIN FROM THE PLUG.**

Note:

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



INFORMATION YOU NEED TO KNOW

...About Your Oven

Your oven comes with an operation manual and an Over-the-Range Convection Microwave Cookbook. Read them carefully and always save for reference.

Should you desire a cookbook for microwave only cooking principles, techniques, hints and recipes, see the order form on page 28 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. See page 10 for turntable on/off instructions.

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.

The fan will automatically start when heat rises from range surface units or burners and when convection, high mix, low mix or the broil settings are used.

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.

The R-1850A, R-1851A and R-1852A are rated at 850 watts using the IEC-705-1988 method. 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, fruits, vegetables & sausages	<ul style="list-style-type: none"> * Puncture egg yolks before cooking to prevent "explosion". * Pierce skins of potatoes, apples, squash, hot dogs and sausages so that steam escapes. 	<ul style="list-style-type: none"> * Cook eggs in shells. * Reheat whole eggs.
Popcorn	<ul style="list-style-type: none"> * Use specially bagged popcorn for the microwave oven. * Listen while popping corn for the popping to slow to 1 or 2 seconds or use POPCORN pad. 	<ul style="list-style-type: none"> * Pop popcorn in regular brown bags or glass bowls. * Exceed maximum time on popcorn package.
Baby food	<ul style="list-style-type: none"> * Transfer baby food to small dish and heat carefully, stirring often. Check temperature before serving. * Put nipples on bottles after heating and shake thoroughly. "Wrist" test before feeding. 	<ul style="list-style-type: none"> * Heat baby food in original jars. * Heat disposable bottles. * Heat bottles with nipples on.
General	<ul style="list-style-type: none"> * Cut baked goods with filling after heating to release steam and avoid burns. * Stir liquid briskly before and after heating to avoid "eruption". * Use deep bowl, when cooking liquid or cereal, to prevent boilovers. 	<ul style="list-style-type: none"> * Heat or cook in closed glass jars or airtight containers. * Can in the microwave as harmful bacteria may not be destroyed. * Deep fat fry. * Dry wood, gourds, herbs or wet papers.

...About Microwave Cooking

- * Arrange food carefully. Place thickest areas toward outside of dish.
- * Watch cooking time closely. 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 like 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, boneless white meat of poultry, ground meat, 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.

- * 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 wave guide cover clean. Food residue can cause arcing and/or fires.

...About Children and the Microwave

- * Children below the age of 7 should use the microwave 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 on 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.

...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 convection oven. The chart below will help you decide what utensils and coverings should be used in each mode.

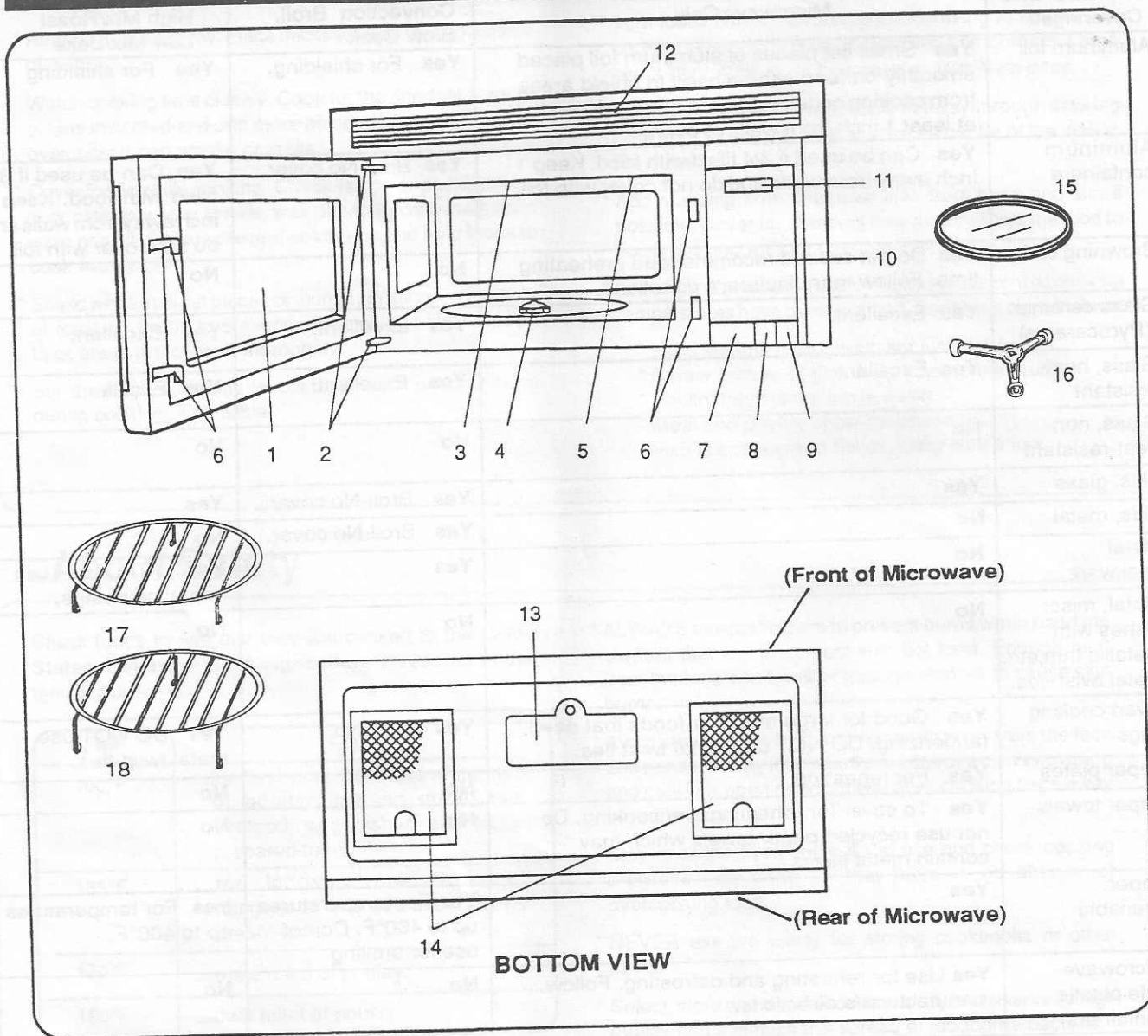
Utensils and Coverings	Microwave Only	Convection Broil, Slow Cook	High Mix/Roast Low Mix/Bake
Aluminum foil	Yes Small flat pieces of aluminum foil placed smoothly on food can be used to shield areas from cooking or defrosting too quickly. Keep foil at least 1 inch from walls of oven.	Yes For shielding.	Yes For shielding
Aluminum containers	Yes Can be used if 3/4 filled with food. Keep 1 inch away from walls and do not cover with foil.	Yes Broil-No cover.	Yes Can be used if 3/4 filled with food. Keep 1 inch away from walls and do not cover with foil.
Browning dish	Yes Do not exceed recommended preheating time. Follow manufacturer's directions.	No	No
Glass ceramic (Pyroceram®)	Yes Excellent.	Yes Excellent.	Yes Excellent
Glass, heat-resistant	Yes Excellent.	Yes Excellent.	Yes Excellent.
Glass, non-heat-resistant	No	No	No
Lids, glass	Yes	Yes Broil-No cover.	Yes
Lids, metal	No	Yes Broil-No cover.	No
Metal cookware	No	Yes	Yes Do not use metal coverings.
Metal, misc: dishes with metallic trim, etc. Metal twist-ties.	No	No	No
Oven cooking bags	Yes Good for large meats or foods that need tenderizing. DO NOT use metal twist ties.	Yes Broil-No	Yes DO NOT use metal twist-ties.
Paper plates	Yes For reheating.	No	No
Paper towels	Yes To cover for reheating and cooking. Do not use recycled paper towels which may contain metal filings.	No	No
Paper, ovenable	Yes	Yes For temperatures up to 400°F. Do not use for broiling.	Yes For temperatures up to 400°F.
Microwave-safe plastic containers	Yes Use for reheating and defrosting. Follow manufacturer's directions.	No	No
Plastic, Thermoset®	Yes	Yes Are heat resistant up to 425°F. Do not use for broiling.	Yes
Plastic wrap	Yes Use brands specially marked for microwave use. DO NOT allow plastic wrap to touch food. Vent so steam can escape.	No	No
Pottery, stoneware, porcelain	Yes Check manufacturer's recommendation for being microwave-safe.	Yes	Yes Must be microwave-safe and ovenable.
Styrofoam	Yes For reheating.	No	No
Wax paper	Yes Good covering for cooking and reheating.	No	No
Wicker, wood, straw	Yes May be used for short periods of time. Do not use with high fat or high sugar content foods. Could char.	No	No

DISH CHECK. If 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. If the dish becomes very hot, DO NOT use it for microwaving.

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 during microwave cooking only 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.

PART NAMES



- | | |
|---|--|
| <ol style="list-style-type: none"> 1. Oven door with see-through window. 2. Door hinges. 3. Wave guide cover. 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. One touch DOOR OPEN button.
Push to open door. 8. FAN HI / LO button.
Push for high/low/off. 9. LIGHT button.
Push for on/off. | <ol style="list-style-type: none"> 10. Auto-Touch control panel. 11. Time display: Digital display, 99 minutes 99 seconds. 12. Ventilation openings. 13. Light cover. 14. Grease filters. 15. Removable ceramic turntable.
The turntable will rotate clockwise or counterclockwise. Only remove for cleaning. 16. Removable turntable support.
Place the turntable support on the floor of the oven cavity and the turntable on the turntable support. 17. Removable low rack for broiling and meat and poultry roasting. 18. Removable high rack for two level baking. |
|---|--|

TOUCH CONTROL PANEL

R-1850A / R-1851A / R-1852A

Interactive display
Words will light in the display to indicate features and cooking instructions.

MIX CONV	00:000000
DEFROST	
SENSOR	
TURNTABLE ON OFF	COOK LBS OZ KG HELP

INTERACTIVE COOKING SYSTEM

23			CUSTOM HELP	24	
14	SENSOR REHEAT	MINUTE PLUS	<ul style="list-style-type: none"> 1 Baked potatoes 2 Frozen vegetables 3 Fresh veg-soft 4 Fresh veg-hard 5 Frozen entrees 6 Hot dogs 7 Bacon 8 Fish, seafood 	SENSOR COOK	15
14	POPCORN	COMPU DEFROST			
12					
18	CONVEC	PREHEAT		COMPU BROIL	22
18					
19	LOW MIX BAKE	HIGH MIX ROAST		COMPU ROAST	20
19					
18	BROIL	SLOW COOK		COMPU BAKE	21
19					
	1 100°F	2 150°F	3 275°F	4 300°F	5 325°F
	6 350°F	7 375°F	8 400°F	9 425°F	0 450°F
10	KITCHEN TIMER	CLOCK	KEEP WARM	START TOUCH ON	
23				11	
10	TURNTABLE ON / OFF	POWER LEVEL	STOP CLEAR	23	
11				10	

Number indicates pages on which there are a feature description 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 show **SHARP** **SIMPLY** **THE**
BEST **PRESS** **CLEAR** **AND** **PRESS** **CLOCK**
 - 2) Touch the STOP/CLEAR pad.
: will appear.
 - 3) Touch CLOCK and follow directions to set.

To Set the Clock

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

Procedure	Display
1 CLOCK Touch CLOCK pad.	TURNTABLE ON ENTER
2 Enter the correct time of day by touching the numbers in sequence.	TURNTABLE ON TIME
3 CLOCK Touch CLOCK pad	TURNTABLE ON 12:30

This is a 12 hour clock. If you attempt to enter an incorrect clock time, **ERROR** 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 **SHARP** **SIMPLY** **THE** **BEST** **PRESS** **CLEAR** **AND** **PRESS** **CLOCK** 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.

NOTE: Your oven can be programmed with the door open except for START/TOUCH ON, MINUTE PLUS, SENSOR REHEAT and POPCORN.

Stop/Clear

Touch the STOP/CLEAR pad to:

1. Erase if you make a mistake during programming.
2. Cancel kitchen 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

Turntable On / Off

For most cooking, the turntable should be on; however the turntable can be turned off so that it does not rotate when extra large dishes, such as the popular 13"x 9"x 2" glass utility casserole, are used. The casserole should be placed on the turntable so that it is level.

- * Suppose you want to cook lasagna in a 13"x 9"x 2" casserole for 45 minutes on 40% power.

Procedure	Display
1 TURNTABLE ON / OFF Touch TURNTABLE ON/OFF pad and note TURNTABLE OFF in the display.	TURNTABLE OFF
2 4 5 0 0 Enter cooking time.	TURNTABLE OFF 45.00
3 POWER LEVEL 4 Enter power level.	TURNTABLE OFF P-40
4 START/TOUCH ON pad.	TURNTABLE OFF COOK 45.00

NOTE:

The door can be opened for checking food and the turntable will stay in the off position. After checking, close door and touch START/TOUCH ON.

The turntable will stay off for one minute after door is opened when time-of-day appears in the display. It is possible to reprogram the oven during that minute without touching the TURNTABLE ON/OFF pad. The display always indicates whether the turntable is off or on.

THE TURNTABLE SHOULD ALWAYS BE ON WHEN USING THE SPECIAL FEATURES. On/Off function can be used with manual cooking modes and Sensor Reheat. Turntable off condition will automatically change to on condition when you select auto cooking except Sensor Reheat and CompuBake.

When cooking large quantities of food which cannot be stirred, it is best to use a lower power level such as 40 or 50%. You may speed cooking of large amounts by programming 5 to 10 minutes on 100% power (HIGH) followed by the desired time on lower power. See page 23 for how to program multiple sequences. You may wish to reverse a large casserole once during cooking; simply open door, reposition casserole, close door and touch START/TOUCH ON.

MANUAL OPERATION

Hood Light/ Hood Fan

Your oven is equipped with a Hood Light and a Hood Fan which can be used whether the door is open or closed.





To turn the Hood Light on, touch the LIGHT pad once. To turn the Hood Light off, touch the LIGHT pad again.

To turn the Hood Fan on, touch the FAN HI/LO pad once for high speed. To turn the Hood Fan to low speed, touch pad twice and touch the pad three times to turn the fan off.

Time Cooking-Microwave

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.

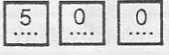
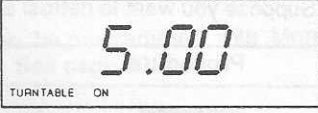
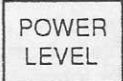




* Suppose you want to cook for 5 minutes at 100%.

Procedure	Display
1  Enter cooking time.	
2  Touch START pad.	

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, Once then Touch	Approximate Percentage of Power	Common Words for Power Levels
POWER LEVEL	100%	High
9	90%	
8	80%	Medium High
7	70%	
6	60%	
5	50%	Medium
4	40%	
3	30%	Med. Low/Defrost
2	20%	
1	10%	
0	0%	Low


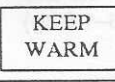
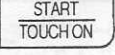
* Suppose you want to defrost for 5 minutes at 30% with the turntable on. .

Procedure	Display
1  Enter defrosting time.	
2   Touch POWERLEVEL pad. Enter power level.	
3  Touch START pad.	

Keep Warm

KEEP WARM can only be programmed with manual cooking or as a separate program.

* Suppose you want to cook a baked potato for 4 minutes at 100% power and you want to keep it warm after cooking for 30 minutes.

Procedure	
1  Touch the desired cook time for 1 baked potato. (Ex: 4 minutes.)	
2  Touch KEEP WARM pad.	
3  Touch START/TOUCH ON pad.	
At the end of cook time, KEEP WARM is displayed warming food until end of 30 minutes	


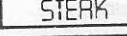

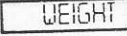



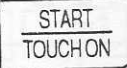

To use KEEP WARM as a separate program, touch KEEP WARM pad within 1 minute after cooking, closing the door or touching the STOP/CLEAR pad.

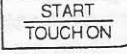

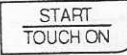

SPECIAL FEATURES

CompuDefrost





CompuDefrost automatically defrosts ground meat, steaks and chicken pieces.

* Suppose you want to defrost a 2.0 pound steak.

Procedure	Display
1  x 3    <p>Touch COMPU DEFROST pad once. Then touch COMPU DEFROST pad two more times to select steak.</p>	
2   <p>Enter weight by touching the number pads. (Ex. 2.0 lbs.)</p>	
3  <p>Touch START/ TOUCH ON pad.</p> <p>The oven will stop and directions will be displayed. Follow the indicated message.</p>	

4  <p>After the 1st stage, open the door. Turn steak over and shield any warm portions. Close the door.</p> <p>Touch START/ TOUCH ON pad.</p>	
5  <p>After the 2nd stage, open the door. Shield any warm portions. Close the door.</p> <p>Touch START/ TOUCH ON pad.</p>	
6 <p>After defrost cycle ends, cover and let stand as indicated in chart below.</p>	

NOTE:

- The weight can be entered in increments of 0.1 lb. If you attempt to enter more or less than the allowed amount    or  will appear in the display.
- CompuDefrost can be programmed with More/Less Time Adjustment. See page 23.
- To defrost other foods or foods above or below the weights allowed on CompuDefrost Chart, use time and 30% power. See Manual Defrost on page 13.

CompuDefrost Chart

Touch CompuDefrost Pad*	Food	For Amount	Procedure
once	Ground meat	0.5–3.0 lbs. (0.3–1.3 kg)	Remove any thawed pieces after each stage. Stand, covered 5–10 min.
twice	Steak (chops) (fish)	0.5–4.0 lbs. (0.3–1.8 kg)	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 or fish that is nearly defrosted. Stand, covered 10–20 minutes.
3 times	Chicken pieces	0.5–3.0 lbs. (0.3–1.3 kg)	After each stage of defrost cycle, if there are warm or thawed portions, rearrange or remove. Stand, covered 10–20 min.

* Number of touches AFTER initial touch to access COMPU DEFROST.

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 CompuDefrost Chart or is above or below the limits in the "Amount" column on the chart, you need to defrost manually.

You can defrost any frozen food, either raw or previously cooked, by using power level 3. Follow the exact 3-step procedure found under Time Cooking on page 11. Estimate defrosting time and press 3 for 30% when you select the power level.

For either raw or previously cooked frozen food, the rule of thumb is approximately 5 minutes per pound. For example, defrost 5 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 on power level 3 until totally defrosted.

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

Sensor Cooking

Sharp's Sensor is a semi-conductor device that detects the vapor (moisture and humidity) emitted from the food as it heats. The Sensor adjusts the cooking times and power level for various foods and quantities. It takes the guesswork out of microwave cooking.

Using Sensor Settings:

1. Room temperature should not exceed 95° F.
2. Be sure the exterior of the cooking container and the interior of the oven are dry. Wipe off any moisture with a dry cloth or paper towel.
3. Sensor cooking can only be entered within 1 minute after cooking, opening and closing the door or touching the STOP/CLEAR pad.
4. During the first part of sensor cooking, **SENSOR**, **REHEAT**, **FROZEN**, **ENTREE**, **POPCORN**, **BAKED**, **POTATO**, **SOFT**, **HARD**, **FRESH**, **VEG.**, **FROZEN**, **VEG.**, **BACON**, **FISH**, **HOT**, **EGGS** will appear on display. Do not open the oven door or touch STOP/CLEAR during this part of the cooking cycle. The measurement of vapor will be interrupted. If this occurs, **ERROR** will appear and sensor cooking will be interrupted. To continue cooking, touch the STOP/CLEAR pad and select cooking time and power. When sensor detects the vapor emitted from the food, remainder of cooking time will appear. Door may be opened when remaining cooking time appears on display. At this time, you may stir or season food, as desired.
5. Check food for doneness after cooking with sensor settings. If additional time is needed, continue to cook with variable power and time.

6. If the sensor does not detect vapor, **ERROR** will appear and the oven will shut off.
7. At the end of any cycle, open oven door or touch STOP/CLEAR pad. The time of day will reappear on the display.
8. Any sensor setting can be programmed with More or Less Time Adjustment. See page 23.

Selecting Foods:

1. The sensor works with foods at normal storage temperature. For example, foods for reheating would be at refrigerator temperature and potatoes for baking would be room temperature.
2. More or less food than the quantity listed in the charts should be cooked by time and variable power.

Covering Foods:

Some foods work best when covered. Use the cover recommended in the chart for these foods.

1. Casserole lid.
2. Plastic wrap: Use plastic wrap recommended for microwave cooking. Cover dish loosely; allow approximately 1/2 inch to remain uncovered to allow steam to escape. Plastic wrap should not touch food.
3. Paper towel: Use paper towels to absorb excess fat and moisture when cooking bacon and potatoes. Line the turntable when baking potatoes.
4. Wax paper: Cover dish completely; fold excess wrap under dish to secure. If dish is wider than paper, overlap two pieces at least one inch to cover.

SPECIAL FEATURES


Instant Sensors

Your oven has Instant Sensor Popcorn and Instant Sensor Reheat. To use any of the Instant Sensors, simply touch the chosen pad. The oven will start automatically. Any sensor setting can be programmed with More/Less Time Adjustment. See page 23.

Instant Sensor Reheat

Turntable on:

You can reheat many foods by touching just one pad. You don't need to calculate reheating time or power level. To reheat food with turntable on, simply touch the SENSOR REHEAT pad.

Procedure	
1	 Touch SENSOR REHEAT pad. (Note: Sensor Reheat can be programmed with turntable on or off). SENSOR REHEAT will be displayed repeatedly. When sensor detects the vapor emitted from the food, remainder of cooking time will appear. After cooking, LET STAND COVERED will be displayed.

Turntable off:

You may reheat using a 11"x 8"x 2" or 13"x 9"x 2" casserole with the turntable off. First touch TURNTABLE ON/OFF and note indicator. Then touch SENSOR REHEAT. The display will indicate turntable off and oven will start automatically. After cooking, **LET** **STAND** **COVERED** will be displayed.

Instant Sensor Chart

Food	Amount	Procedure
Leftovers such as rice, potatoes, vegetables, casserole	4-32 oz.	Place in dish or casserole slightly larger than amount to be reheated. Flatten, if possible. Cover with lid, plastic wrap or wax paper. Use covers such as plastic wrap or lids with larger quantities of more dense foods such as stews.
Soups	1-4 cups	After reheating, stir well, if possible. Foods should be very hot. If not, continue to heat with variable power and time. After stirring, recover and allow to stand 2 to 3 minutes.
Canned entrees and vegetables	4-16 oz.	Use Less Time Adjustment by touching POWER LEVEL pad twice for small quantities of canned vegetables.
Dinner Plate 1 plate	(3-6 oz. of meat plus vegetables and/or potato/rice)	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, 2 to 3 minutes.
Popcorn	Only 1 package at a time	Use only popcorn packaged for microwave oven use. Try several brands to decide which you like best. Do not try to pop unpopped kernels. More/Less Time Adjustment can be used to provide adjustment needed for older popcorn or individual tastes.

Instant Sensor Popcorn

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

Procedure	
1	 Touch POPCORN pad once. (Ex: Touch POPCORN once for regular size bag.) SENSOR POPCORN REGULAR will be displayed repeatedly. After cooking, END will be displayed.

This sensor 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 the bag and place in oven according to directions.

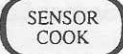







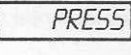

Popcorn Chart

	Touch POPCORN Pad	For Amount
once	3.0 and 3.5 oz. bag	Regular size.
twice	1.5 and 1.75 oz. bag	Snack size.

SPECIAL FEATURES

Sensor Cook

* Suppose you want to cook a baked potato.

Procedure	Display
1  Touch SENSOR COOK pad.	  
2  Select desired sensor setting. Touch  to cook baked potatoes.	   

3 Touch START/TOUCH ON pad.
 When sensor detects the vapor emitted from the food, the remainder of cooking time will appear.





Open oven door or touch STOP / CLEAR pad. The time of day will appear in the display.

Sensor Cook Chart

Food	Amount	Procedure
1. Baked potatoes	1 to 6 medium	Pierce. Place on paper-towel-lined turntable. After cooking, remove from oven, wrap in aluminum foil and let stand 5 to 10 minutes.
2. Frozen vegetables	1 to 6 cups	Cover with lid or plastic wrap. After cooking, stir and let stand 3 minutes, covered.
3. Fresh vegetables, soft		Wash and place in casserole. Add no water if vegetables have just been washed. Cover with lid for tender vegetables. Use plastic wrap for tender-crisp vegetables. Stir before standing if possible. After cooking, let stand, covered, 2-5 minutes.
Broccoli	1/4 to 2 lbs.	
Brussels sprouts	1/4 to 2 lbs.	
Cabbage	1/4 to 2 lbs.	
Cauliflower (flowerets)	1/4 to 2 lbs.	
Cauliflower (whole)	1 medium	
Spinach	1/4 to 1 lb.	
Zucchini	1/4 to 2 lbs.	
Baked apples	2 to 4 medium	
4. Fresh vegetables, hard		Place in casserole. Add 1-4 tbsp. water. Cover with lid for tender vegetables. Use plastic wrap cover for tender-crisp vegetables. Stir before standing, if possible. After cooking, let stand, covered, 2-5 minutes.
Carrots, sliced	1/4 to 1 1/2 lbs.	
Corn on cob	2 to 4 pcs.	
Green beans	1/4 to 1 1/2 lbs.	
Winter squash, diced	1/4 to 1 1/2 lbs.	
halves	1 to 2	
5. Frozen entrees	6 to 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. Hot dogs	1 to 4 servings	Place hot dog in bun and wrap in paper towel or paper napkin.
7. Bacon	2 to 6 slices	Place bacon on paper plate, lined with paper towel. Bacon should not extend over the rim of plate. Cover with paper towel.
8. Fish, seafood	0.25 to 2.0 lbs.	Arrange in ring around shallow glass dish (roll fillet with edges underneath). Cover with plastic wrap. After cooking, let stand, covered, 3 minutes.

CONVECTION OPERATION

Convection/Automatic Mix Cooking

This section of the Operation Manual gives you specific cooking instructions and procedures. Please consult your Sharp Carousel Convection Microwave Cookbook for helpful hints for convection and combination cooking.

The oven should not be used without the turntable in place, and it should never be restricted so that it cannot rotate. You may remove the turntable when preheating the oven and when preparing food to be cooked directly on the turntable.

Convection Cooking

During convection heating, hot air is circulated throughout the oven cavity to brown and crisp foods quickly and evenly. This oven can be programmed for ten different convection cooking temperatures for up to 99 minutes, 99 seconds.

To Cook with Convection

* Suppose you want to cook at 350°F. for 25 minutes.

Procedure	Display
1 CONVEC Touch CONVEC pad.	SELECT TEMP
2 Touch number pad for desired temperature (Ex: Pad 6 for 350°F.)	350F ENTER COOKING TIME
3 Enter cooking time. (Ex: 20 00 min.)	20.00
4 START TOUCH ON Touch START/TOUCH ON pad.	

To Preheat and Cook with Convection

Your oven can be programmed to combine preheating and convection cooking operations. You can preheat at the same temperature as the convection temperature or change it to a higher or lower temperature.

* Suppose you want to preheat until 350° F., and then cook 25 minutes at 375° F., convection.

Procedure	Display
1 PREHEAT Touch PREHEAT pad.	SELECT PREHEAT TEMP

2 Touch number pad for desired temperature (Ex: Pad 6 for 350°F.)	350F PRESS START OR PRESS CONVEC
3 Touch CONVEC then touch number pad for temp. (Ex: 7 for 375°F.)	SELECT PREHEAT TEMP 375°F ENTER COOKING TIME
4 Enter number pads for cooking time. (Ex: 25 00)	2 5 0 0
5 START TOUCH ON Touch START/TOUCH ON pad.	PREHEAT

When the oven reaches the programmed temperature, it will automatically hold at the preheat temperature for 30 minutes and then the display will change to time of day. Whenever STOP/CLEAR pad is touched during this 30 minute period, PRESS CONVEC or PRESS MIX will be displayed and cooking mode and time can be entered.

Note: To preheat and cook with the same temperature, enter same temperature in steps 2 and 3.

To Broil

In the BROIL setting, preheating is automatic. Just enter the actual broiling time and wait for preheat to be over before adding food. (Preset 450° F.) Oven temperature cannot be changed.

* Suppose you want to broil a ham steak for 15 minutes.

Procedure	Display
1 BROIL Touch BROIL pad.	450F ENTER COOKING TIME
2 Touch number pads to enter cooking time. (Ex: 15 00) Touch START/TOUCH ON pad.	PREHEAT

CONVECTION OPERATION

To Slow Cook

Slow Cook is a preset at 300° F. Slow Cook is programmed for 4 hours. Oven temperature can be changed to temperatures below 300°F. Simply touch the SLOW COOK pad and touch the desired numbered pad with temperature below 300°F.

Procedure	Display
1 SLOW COOK Touch SLOW COOK pad.	300F 4 HOURS PRESS START
2 START TOUCH ON Touch START/TOUCH ON pad.	The oven begins counting and continues to 4 hours.

Automatic Mix Cooking

Automatic Mix Cooking:

This oven has two pre-programmed settings that make it easy to cook with both convection heat and microwave automatically.

	Oven temperature	Microwave power
HIGH MIX	325°F	30%
LOW MIX	325°F	10%

With the exception of those foods that cook best by convection heating alone, most foods are well suited to mix cooking using either LOW MIX/BAKE or HIGH MIX/ROAST.

The marriage of these two cooking methods produces juicy meats, moist and tender cakes and fine textured breads, all with just the right amount of browning and crispness.

The temperatures can be changed; however, the microwave power cannot.

The oven temperature can be changed from 100°F. to 450°F. To change the temperature, first touch HIGH MIX or LOW MIX, then touch the same pad again. When the display says **SELECT TEMP**, touch desired temperature pad. Ex: HIGH MIX, HIGH MIX, pad **7** and START. The mix temperature will change automatically.

To Cook with Automatic Mix

* Suppose you want to bake a cake at low mix for 20 minutes.

Procedure	Display
1 LOW MIX BAKE Touch LOW MIX BAKE pad.	325F ENTER COOKING TIME
2 2 0 0 0 Touch number pads to select time.	20:00 PRESS START

At the end of the baking time, 1 long tone will sound and **END** will be displayed.

To Preheat and Cook with Automatic Mix

Your oven can be programmed to combine preheating and Automatic Mix cooking operations. You can preheat at the same temperature as the preset combination temperature or change it to a different temperature.

* Suppose you want to preheat until 350°F. and then cook 25 minutes on 325°F. Low Mix bake.

Procedure	Display
1 PREHEAT Touch PREHEAT pad.	SELECT PREHEAT TEMP
2 Touch number pad for desired temperature (Ex: Pad 6 for 350°F.)	350F PRESS START OR PRESS COOK/EC
3 LOW MIX BAKE Touch LOW MIX BAKE pad.	325F ENTER COOKING TIME
4 2 5 0 0 Touch number pads to select time.	25:00 PRESS START
5 START TOUCH ON Touch START/TOUCH ON pad.	PREHEAT

After cook cycle is completed, 1 long tone will sound and **END** will be displayed.

This section of the operation manual offers instructions for preparing 12 popular foods using CompuBroil, CompuRoast and CompuBake.


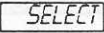












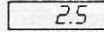


After selecting the desired feature, follow the directions indicated in the display.

For helpful hints, simply touch CUSTOM HELP anytime HELP is lighted in the display.

CompuRoast

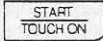
CompuRoast automatically roasts chicken, turkey, turkey breast or pork.

*Suppose you want to roast a 2.5 pound chicken.

Procedure	Display
1  Touch COMPU ROAST pad.	  
2  Touch number pad. (Ex: for chicken, touch ).	     
3   Touch number pad to enter weight. (Ex: 2.5).	  





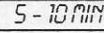
CompuRoast Chart

Setting	Food	Amount	Rack	Procedure
1.	Chicken	2.5 to 7.0 lbs. (1.2 to 3.1 KG.)	Low	After the cycle ends, cover with foil and let stand for 5 - 10 minutes. Internal temperature of white meat should be 170°F. and of dark meat, 180°F.
2.	Turkey (Unstuffed)	6.5 to 9.0 lbs. (3.0 to 4.0 KG.)	Low	Season, as desired. Place on low rack. After the cycle ends, cover with foil and let stand 10 minutes. Internal temperature of white meat should be 170°F. and of dark meat, 180°F.
3.	Turkey breast	3.0 to 6.0 lbs. (1.4 to 2.7 KG.)	Low	Season, as desired. Place on low rack. After the cycle ends, cover with foil and let stand 10 minutes. Internal temperature of white meat should be 170°F.
4.	Pork	2.0 to 3.5 lbs. (0.9 -1.5 KG.)	Low	Boneless pork loin is recommended because it cooks evenly. Place on a low rack. After cooking, remove from oven, cover with foil and allow to stand 5 - 10 minutes. Internal temperature should be 160°F.


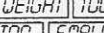






4 

Touch START/TOUCH ON pad.

MIX **33:03**
TURNTABLE ON COOK HELP

After COMPU ROAST cycle ends, a long tone will sound.    
 will be displayed.


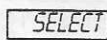





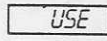



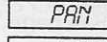
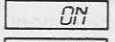
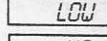

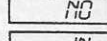

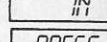
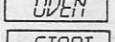
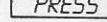

NOTE:

1. CompuRoast can be programmed with More/Less Time Adjustment. See page 23.
2. If you attempt to enter more or less than the allowed weight     or     will appear in the display.
3. To roast other food or foods above or below the weights allowed on the chart below, check the Sharp Carousel Convection Microwave Cookbook's Combination Roasting Chart.

CompuBake

CompuBake automatically bakes cakes, brownies, muffins and French fries.

*Suppose you want to bake a 13"x9"x2" cake.

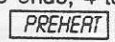





Procedure	Display
1  Touch COMPU BAKE pad. Note: Turntable function is automatically turned OFF.	  
2  Touch number pad. (Ex: for cake, touch ).	              

3



Touch START/TOUCH ON pad




After CompuBake preheat cycle ends, 4 tones will sound. The display will indicate      . Open door. Place the cake pan inside. Close door and touch START/TOUCH ON pad.

4



Touch START/TOUCH ON pad.



After COMPU BAKE cycle ends, 1 long tone will sound, and  will be displayed.

NOTE:

1. CompuBake can be programmed with More/Less Time Adjustment. See page 23.
2. To bake other food, see the Sharp Carousel Convection Microwave Cookbook's Baking Section.

CompuBake Chart

Setting	Food	Pan size/Qty	Rack	Procedure
1.	Cake	13" x 9" x 2"	Low	Ideal for packaged cake mix or your own recipe for 13"x 9"x 2" pan. Prepare according to package or recipe directions and place in a greased and floured 13"x 9"x 2" baking pan. After the preheat is over, place pan in oven centered on low rack. Cool before frosting and serving.
2.	Brownies	13" x 9" x 2"	Low	Ideal for packaged brownie mix or your own recipe for 13"x 9"x 2" pan. Prepare according to package or recipe directions and place in a greased and floured 13"x 9"x 2" baking pan. After the preheat is over, place pan in oven centered on low rack. Cool before cutting into serving pieces.
3.	Muffins	12 cup Muffin pan	Low	Ideal for packaged muffin mix or your own recipe for 12 medium size muffins. Prepare according to package or recipe directions and place in one 12-cup muffin pan. After the preheat is over, place pan in oven centered on low rack.
4.	French fries	3 to 24 oz. Cookie sheet to hold	Low	Use frozen prepared French fries. No preheat is required for the French fries baking procedure. Place French fries on cookie sheet on low rack. For shoestring potatoes, touch POWER LEVEL pad twice to enter less time before touching START pad.





























SPECIAL FEATURES



COMPU BROIL





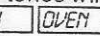



CompuBroil



CompuBroil automatically broils hamburgers, chicken pieces, steaks and fish steaks.


*Suppose you want to broil 2 hamburgers.

Procedure	Display
1  Touch COMPU BROIL pad.	  
2  Touch number pad. (Ex: for hamburgers, touch ).	        
3  Touch number pad to enter quantity. (Ex: ). Follow information in display for cooking information. For well done or rare burgers, touch POWER LEVEL pad to select More for well done or Less for rare. See More/Less Time Adjustment on page 23.	          




















4  
 Touch START/TOUCH ON pad.

After broil preheat cycle ends, 4 long tones will sound.         will be displayed repeatedly. Open the door and place hamburgers into oven. Close the door.

5  
 Touch START/TOUCH ON pad.

After broil cycle ends, 1 long tone will sound and  will be displayed.

NOTE:

- CompuBroil can be programmed with More/Less Time Adjustment. See page 23.
- If you attempt to enter more or less than the allowed weight       or       will appear in the display. If you enter more or less than the allowed number     or    will appear in the display.
- To broil other foods or foods above or below the weight or number allowed on the chart below, follow instructions in the Sharp Carousel Convection Microwave Cookbook. See Broiling Chart.

CompuBroil Chart

Setting	Food	Amount	Procedure
1.	Hamburgers	1 - 8 pieces 1/4 lb. each	Use this setting to broil hamburger patties. Place on low rack.
2.	Chicken pieces	0.5 to 3.0 lbs.	Arrange pieces on low rack. After cooking, let stand, 3-5 minutes. Dark meat should be 180°F., and white meat should be 170°F.
3.	Steaks	0.5 to 2.0 lbs.	Use this setting to broil steaks from 3/4" to 1" thick. Individual boneless steaks broil evenly. Place steak on low rack. For well done, touch POWER LEVEL once; for rare, touch POWER LEVEL twice.
4.	Fish steaks	0.5 to 2.0 lbs.	Use this setting to broil fish steak which is 3/4" to 1" thick. Place on low rack.

OTHER CONVENIENT FEATURES

Multiple Sequence Cooking

The oven can be programmed for up to 4 automatic cooking sequences for the microwave mode and 3 automatic cooking sequences for convection mode, switching from one 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 90% and then continue to cook for 30 minutes at 50%.

Procedure		
1		Touch POWER LEVEL pad once.
2		Touch POWER LEVEL number (Ex: 90%).
3		Enter cooking time. (Ex: 5 minutes).
4		Touch POWER LEVEL pad again.
5		Touch POWER LEVEL number (Ex: 50%).
6		Enter cooking time. (Ex: 30 minutes).
7		Touch START/ TOUCH ON pad.

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

More/Less Time Adjustment

More

Should you discover that you like any of the COMPU DEFROST, COMPU ROAST, COMPU BAKE, COMPU BROIL, SENSOR COOK or INSTANT SENSOR settings slightly **more** done, touch the POWER LEVEL pad **once** after touching your choice of pads.

Less

Should you discover that you like any of the COMPU DEFROST, COMPU ROAST, COMPU BAKE, COMPU BROIL, SENSOR COOK or INSTANT SENSOR settings slightly **less** done, touch the POWER LEVEL pad **twice** after touching your choice of pads.

Kitchen Timer

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

1		Touch KITCHEN TIMER/TIMER pad.
2		Enter time.
3		Touch START pad.

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 using microwave, convection, mix or broil.

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

Procedure		
1		Touch MINUTE PLUS pad.

- NOTE: 1. Touch MINUTE PLUS pad within 1 minute after cooking, closing the door, touching the STOP/CLEAR pad or during cooking. Minute Plus cannot be used to start the oven if any program is on display.
- Minute Plus cannot be used with SPECIAL FEATURES.

Touch On

Touch On allows you to cook at 100% power by touching the START/TOUCH ON continuously. Touch On is ideal for melting cheese, bringing milk to just below boiling etc. The maximum cooking time is 3 minutes.

* Suppose you want to melt cheese on a piece of toast.

Procedure		
1		Continuously touch START/ TOUCH ON pad. The cooking time will begin counting up.
2		When the cheese is melted to desired degree, remove finger from START/TOUCH ON pad. Oven stops immediately.

- NOTE: 1. Note time it takes for frequently used foods and program that time in the future.
- Touch TOUCH ON pad within 1 minute after cooking, opening and closing the door or touching the STOP/CLEAR pad.
 - Touch On can only be used 3 times in a row. If more times are needed, open and close door or touch STOP/CLEAR.

Demonstration Mode

To demonstrate, touch CLOCK, [0] and START/TOUCH ON pad. Hold the START/TOUCH ON pad for three seconds. **DEMO ON SHARP SIMPLY THE BEST** will appear in the display. Cooking operations and special features can now be demonstrated with no power in the oven. For example, Touch MINUTE PLUS and the display will show **1:00** and countdown quickly to [0] and the **END**

To cancel, touch CLOCK, the number [0] and STOP/CLEAR.

Custom Help

CUSTOM HELP provides 5 features which make using your oven easy because specific instructions are provided in the interactive display.

Safety Lock

The Safety Lock prevents unwanted oven operation such as by small children. Note: Safety Lock is not applicable to Hood Fan and Hood Light buttons.

The oven can be set so that the control panel is deactivated or locked. To set, touch CUSTOM HELP, the number [1] and START/TOUCH ON pad. Should a pad be touched, **LOCK** will appear in the display.

To cancel, touch CUSTOM HELP, the number [1] and STOP/CLEAR.

Audible Signal Elimination



If you wish to have the oven operate with no audible signals, touch CUSTOM HELP, the number [2] and STOP/CLEAR.


To cancel and restore the audible signal, touch CUSTOM HELP, the number [2] and START/TOUCH ON.

Auto Start

If you wish to program your oven to begin cooking automatically at a designated time of day, follow this procedure:

* Suppose you want to start cooking a stew for 20 minutes at 4:30. Before setting, check to make sure the clock is showing the correct time of day.

Procedure		
1		Touch CUSTOM HELP pad.
2	[3]	Touch the number.
3	[4] [3] [0]	Enter the start time.
4		Touch the CLOCK pad.




5	[2] [0] [0] [0]	Enter cooking program or cooking time.
6		Touch START/TOUCH ON pad.

NOTE:

1. Auto start can be used for manual cooking, Compu Broil/Roast/Bake if clock is set.
2. If the oven door is opened after programming Auto Start, it is necessary to touch the START pad for the time of day to appear in the readout so that the oven will automatically begin programmed cooking at the chosen Auto Start time.
3. Be sure to choose foods that can be left in the oven safely until the Auto Start time. Baked potatoes are often a good choice.

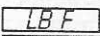
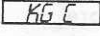
Language Selection

The oven comes set for English language. To change, touch CUSTOM HELP and the number [4]. Continue to touch the number [4] until your choice is selected from the table below. Then, touch START/TOUCH ON pad.

Number [4]	Language	Display
Once	English	
Twice	Espanol	
3 Times	French	

Weight/Temp Selection

The oven comes set for U.S. Customary Unit-pounds. To change, touch CUSTOM HELP and the number [5]. Continue to touch the number [5] until your choice is selected from the table below. Then, touch START/TOUCH ON pad.

Number [5]	Standard of Weight and Temperature	Display
Once	LB. F	
Twice	KG C	

Help

Each setting of CompuDefrost, CompuBroil, CompuRoast, CompuBake and Sensor Cook has a cooking hint. If you wish to check, touch CUSTOM HELP whenever HELP is lighted in the interactive display.

SERVICE CALL CHECK

Please check the following before calling for service:

1. Place one cup of water in a glass measuring cup in the oven and close the door securely. Operate the oven for two minutes a HIGH 100%.
 - A. Does the light come on in the oven? YES _____ NO _____
 - B. Does the cooling fan work? YES _____ NO _____
(Put your hand over the top ventilation openings.)
 - C. Does the turntable rotate when the TURNTABLE ON/OFF pad is touched and TURNTABLE ON is in the display? YES _____ NO _____
(It is normal for the turntable to turn in either direction when TURNTABLE ON is in the display.)
 - D. Is the water in the oven warm? YES _____ NO _____

2. Remove the water from the oven and program:

CONVEC
450°F
5
0
0

START

 - A. Do CONV and COOK light? YES _____ NO _____
 - B. After the oven shuts off, is the inside of the oven hot? YES _____ NO _____

If "NO" is the answer to any of the above questions, please check electrical outlet, fuse and/or circuit breaker. If either or both are not 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 24 and cancel.

SPECIFICATIONS

R-1850A / R-1851A / R-1852A

AC Line Voltage:	Single phase 120V, 60Hz, AC only
AC Power Required:	1600 watts 13.2 amps.
Output Power:	
Microwave	850 watts* (IEC-705-1988 Test Procedure)
Convection Heater:	1400 watts
Frequency:	2450 MHz
Outside Dimensions:	29 15/16" (W) x 16 11/32" (H) x 15 9/32" (D)
Cavity Dimensions:	17 1/8" (W) x 8 1/16" (H) x 13 13/16" (D)
Oven Capacity:	1.1 cu. ft.
Cooking Uniformity:	Turntable & Stirrer Fan
Weight:	Approx. 71 lbs.

*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.

AUTO-TOUCH® GUIDE

For more complete information and safety precautions, refer to the inside instructions.

<p>SET CLOCK</p> <p>If SHARP SIMPLY THE BEST PRESS CLEAR AND PRESS CLOCK is in the display, first touch STOP/CLEAR.</p> <ol style="list-style-type: none"> 1. Touch CLOCK pad. 2. Enter correct time of day by touching numbers in sequence. (Ex: 12:30) 3. Touch CLOCK pad again. 	<p>CLOCK</p> <p>1 2 3 0</p> <p>CLOCK</p>	<p>MANUAL OPERATION</p> <p>High Power Cooking</p> <ol style="list-style-type: none"> 1. Enter cooking time by touching number pads. (Ex: 1 min. 30 sec.) 2. Touch START/TOUCH ON pad. <p>Variable Power Cooking</p> <ol style="list-style-type: none"> 2. After Step 1 above, touch POWER LEVEL pad. 3. Select power level (Ex: 5 for 50%) and Touch START/TOUCH ON pad. 	<p>1 3 0</p> <p>START TOUCH ON</p> <p>POWER LEVEL</p> <p>5</p> <p>START TOUCH ON</p>
<p>INSTANT SENSOR POPCORN</p> <p>Touch Popcorn pad. Touch once for regular size and twice for snack size. See page 14.</p>	<p>POPCORN</p>	<p>MINUTE PLUS</p> <p>Touch MINUTE PLUS for one minute at 100% power or to add additional minutes.</p>	<p>MINUTE PLUS</p>
<p>INSTANT SENSOR REHEAT</p> <p>Touch SENSOR REHEAT once. The oven will start automatically. SENSOR REHEAT can be programmed with turntable on or off. See Instant Sensor Reheat Chart on page 14.</p>	<p>SENSOR REHEAT</p>	<p>TOUCH ON</p> <p>Continuously touch START/TOUCH ON for 100% power cooking. Remove finger and oven will stop instantly.</p>	<p>START TOUCH ON</p>
<p>SENSOR COOK</p> <ol style="list-style-type: none"> 1. Touch SENSOR COOK pad. 2. Select desired SENSOR COOK setting. (Ex: 1) 3. Touch START/TOUCH ON pad. <p>See Sensor Cook Chart, page 15.</p>	<p>SENSOR COOK 1</p> <p>START TOUCH ON</p>	<p>COMPU DEFROST</p> <ol style="list-style-type: none"> 1. Touch COMPU DEFROST pad (Ex: three times for a steak.) 2. Enter weight by touching number pad. (Ex: 2 and 0.) 3. Touch START/TOUCH ON pad. <p>During defrosting, oven will stop. Check food. See CompuDefrost Chart on 12.</p>	<p>COMPU DEFROST</p> <p>2 0</p> <p>START TOUCH ON</p>
<p>TO PREHEAT AND COOK WITH CONVECTION</p> <ol style="list-style-type: none"> 1. Touch PREHEAT pad. 2. Touch number pad for desired temperature. (Ex: touch pad 6 for 350°F.) 3. Touch CONVEC pad. 4. Touch number pad for desired temperature. (Ex: 5 for 325°F.) 5. Enter cooking time by touching number pads. (Ex: 2 0 0 0) 6. Touch START/TOUCH ON pad. 	<p>SELECT PREHEAT</p> <p>TEMP</p> <p>350F PRESS</p> <p>START OR</p> <p>PRESS CONVEC</p> <p>SELECT TEMP</p> <p>325F</p> <p>ENTER COOKING</p> <p>TIME</p> <p>20:00 PRESS</p> <p>START</p> <p>PREHEAT</p>	<p>COMPU ROAST</p> <p>or CompuBake or CompuBroil</p> <ol style="list-style-type: none"> 1. Touch desired COMPU pad. 2. Select desired Compu setting. (Ex: Touch 1 for chicken.) 3. Touch number pad for weight or quantity. 4. Touch START/TOUCH ON pad. <p>See CompuRoast, Bake and Broil Charts on pages 19, 20 and 21.</p>	<p>COMPU ROAST</p> <p>1</p> <p>2 5</p> <p>START TOUCH ON</p>
<p>When the oven reaches the programmed temp., it will automatically hold at the preheat temperature for 30 minutes and then the display will change to the time of day. Whenever STOP/CLEAR is touched during this 30 minute period, PRESS CONVEC or PRESS MIX will be displayed and cooking mode and time can be entered. For more information on convection cooking, See pages 18 and 19.</p>	<p>TO COOK WITH AUTOMATIC MIX</p> <ol style="list-style-type: none"> 1. Touch LOW MIX BAKE pad, enter desired cooking time and touch START/TOUCH ON pad. Follow information on the display. 	<p>325F</p> <p>ENTER COOKING</p> <p>TIME</p> <p>PRESS START</p>	
		<p>Your oven can be programmed to combine preheating and automatic mix cooking operations. See page 19 for information.</p>	

SHARP

SHARP ELECTRONICS CORPORATION
Sharp Plaza, Mahwah, NJ 07430-2135

TINSEB199MRR0 Printed in U.S.A.