

Microwave Oven **OWNER'S MANUAL**

MODEL: MS-133DD

please read this owner's manual thoroughly before operating P/NO.: 3828W5A1914

PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

Do not attempt to operate the oven with the door open since open door operation can result in harmful exposure to microwave energy. It is important not to tamper with the safety interlocks.

Do not place any object between the oven front face and the door or allow soil or cleaner residue to accumulate on sealing surfaces.

Do not operate the oven if it is damaged. It is particularly important that the oven door closes 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.

The oven should not be adjusted or repaired by anyone except properly qualified service personnel.

WARNING

Please ensure cooking times are correctly set as over cooking may result in FIRE and subsequent damage to the oven.

WARNING

When heating liquids, e.g. soups, sauces and beverages in your microwave oven, overheating the liquid beyond boiling point can occur without evidence of bubbling. This could result in a sudden boil over of the hot liquid. To prevent this possibility the following steps should be taken:

- 1. Avoid using straight sided containers with narrow necks.
- 2. Do not overheat.
- 3. Stir the liquid before placing the container in the oven and again halfway through the heating time.
- 4. After heating, allow to stand in the oven for a short time, stir or shake them again carefully and check the temperature of them before consumption to avoid burns (especially, contents of feeding bottles and baby food jars).

Important Safety Instructions

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.
- Read and follow the specific "PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE 2. Read and follow the specific **CROWAVE ENERGY**" found on page 2 of this manual.
- 3. This appliance must be grounded. Connect only to properly grounded outlet.

GROUNDING INSTRUCTIONS"

of this manual.

- 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 the 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 authorized service facility for examination, repair or adjustment.
- 10. Do not cover or block any openings on the appliance.
- 11. Do not store 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. Either-(a) When cleaning surfaces of door and oven that comes together on closing the door, use only mild, nonabrasive soaps or detergents applied with a sponge or soft cloth; or when separate cleaning instructions apply, (b) See door surface cleaning instruction on (specific page or section to be included).
- 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. Do not heat any type of baby bottles or baby food. Uneven heating may occur and could cause personal injurv.
- 18. Avoid heating small-necked containers such as syrup bottles.
- 19. Avoid using corrosive and vapors, such as sulfide and chloride.
- 20. Liquids heated in certain shaped containers (especially cylindrical-shaped containers) may become overheated. The liquid may splash out with a loud noise during or after heating or when adding ingredients (instant coffee, etc.) resulting in harm to the oven and possible injury. In all containers, for best results, stir the liquid several times before heating. Always stir liquid several times between reheatings.

SAVE THESE INSTRUCTIONS

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Technical Specifications

Model	MS-133DD
Power Input	120V AC / 60Hz
Output	1150W (IEC60705 RATING STANDARD)
Microwave Frequency	2450MHz
Outside Dimensions	556mm(W) X 320mm(H) X 438mm (D)
Cavity Dimensions	374mm(W) X 234mm(H) X 406mm (D)
Power Consumption	1550W

Installation

A. GROUNDING INSTRUCTIONS

For personal safety, this appliance must be properly grounded.

In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape route for the electric current.

The power cord of this appliance is equipped with plug to minimize the possibility of electric shock hazard from this appliance.

The plug must be plugged into an outlet that is properly installed and grounded.

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

The consumer should have it checked by a qualified electrician or serviceman if the grounding instructions are not completely understood, or if doubt exists as to whether the appliance is properly grounded.

Caution: Attaching the adapter ground terminal to the wall receptacle cover screw does not ground the appliance unless the cover screw is metal, and not insulated, and the wall receptacle is grounded through the house wiring.

 Usage situations where the appliance power cord will be disconnected frequently: Do not use an adapter plug in these situations because disconnecting of the power cord causes undue strain on the adapter and leads to eventual failure of the adapter ground terminal.

NOTE:

- Short power-supply cord is provided to reduce the risks resulting from becoming entangled in or tripping over a longer cord.
- 2. Longer cord sets or extension cords are available and may be used if care is exercised in their use.
- 3. If a long cord or extension cord is used. (1) the marked electrical rating of the cord set or extension cord should be at least as great as the electrical rating of the appliance, (2) the longer cord should be arranged so that it will not drape over the countertop or tabletop where it can be pulled on by children or tripped over accidentally.

Installation

B. CIRCUITS

For safety purposes this oven must be plugged into a 15 Amp circuit. No other electrical appliances or lighting circuits should be on this line. If in doubt, consult a licensed electrician.

C. VOLTAGE WARNING

The voltage used at the wall receptacle must be the same as specified on the oven serial plate located on the back or on the side of the control panel of the oven. Use of a higher voltage is dangerous and may result in a fire or other type of accident causing oven damage.

Low voltage will cause slow cooking. In case your microwave oven does not perform normal operation in accordance with AC power source and voltage, remove the power cord and then insert it again.

D. DO NOT BLOCK AIR VENTS

All air vents should be kept clear during cooking. If air vents are covered during oven operation the oven may overheat. In this case a sensitive thermal safety device automatically turns the oven off. The oven will be inoperable until it has cooled sufficiently.

E. PLACEMENT OF THE OVEN

Your microwave oven can be placed easily in your kitchen, family room, or anywhere else in your home. Place the oven on a flat surface such as a kitchen countertop or a specially designed microwave oven cart. Do not place oven above a gas or electric range. Free air flow around the oven is important.

F. RADIO INTERFERENCE

- Operation of the microwave oven may cause interference to your radio. TV or similar equipment.
- 2. When there is interference, it may be reduced or eliminated by taking the following measures:
 - a. Clean door and sealing surfaces of the oven
 - Reorient the receiving antenna of radio or television.
 - c. Relocate the microwave oven with respect to the receiver.
 - d. Move the microwave oven away from the receiver.
 - e. Plug the microwave oven into a different outlet so that microwave oven and receiver are on different branch circuits.

How the Microwave Oven Works

Microwaves are a form of energy similar to radio and television waves and ordinary daylight. Ordinarily, microwaves spread outwards as they travel through the atmosphere and disappear without effect. Microwave ovens, however, have a magnetron which is designed to make use of the energy in microwaves. Electricity, supplied to the magnetron tube, is used to create microwave energy. These microwaves enter the cooking area through openings inside the oven. A turntable or tray is located at the bottom of the oven. Microwaves cannot pass through metal walls of the oven, but they can penetrate such materials as glass, porcelain and paper, the materials out of which microwave-safe cooking dishes are constructed. Microwaves do not heat the cookware, though cooking vessels will eventually get hot from the heat generated by the food.

A very safe appliance. Your microwave oven is one of the safest of all home appliances. When the door is opened, the oven automatically stops producing microwaves. Microwave energy is converted completely to heat when it enters food, leaving no "left over" energy to harm you when you cook your food.

Getting The Best Results From Your Microwave Oven

Keeping an eye on things. The recipes in this book have been formulated with great care, but your success in preparing them depends, of course, on how much attention you pay to the food as it cooks. Always watch your food while it cooks. Your microwave oven is equipped with a light that turns on automatically when the oven is in operation so that you can see inside and check the progress of your recipe. Directions given in recipes to 'elevate', 'stir', and the like should be thought of as the minimum steps recommended. If the food seems to be cooking unevenly, simply make the necessary adjustments you think appropriate to correct the problem.

Factors affecting cooking times. To check the wattage of your oven, refer to the specifications at the beginning of this book. Many factors affect cooking times. The temperature of ingredients used in a recipe makes a big difference in cooking times.

For example, a cake made with ice-cold butter, milk, and eggs will take considerably longer to bake than one made with ingredients that are at room temperature. All of the recipes in this book give a range of cooking times. In general, you will find that the food remains under-cooked at the lower end of the time range, and you may sometimes want to cook your food beyond the maximum time given, according to personal preference. The governing philosophy of this book is that it is best for a recipe to be conservative in giving cooking times. While undercooked food is ruined for good. Some of the recipes, particularly those for bread, cakes, and custards, recommend that food be removed from the oven when they are slightly undercooked. This is not a mistake. When allowed to stand, usually covered, these foods will continue to cook outside of the oven as the heat trapped within the outer portions of the foods gradually travels inward. If the foods are left in the oven until they are cooked all the way through, the outer portions will become overcooked or even burnt. As you gain experience in using your microwave oven, you will become increasingly skillful in estimating both cooking and standing times for various foods.

How Food Characteristics Affect Microwave Cooking

Density of foods: Light, porous food such as cakes and breads cook more quickly than heavy, dense foods such as roasts and casseroles. You must take care when microwaving porous foods that the outer edges do not become dry and brittle.

Height of foods: The upper portion of tall foods, particularly roasts, will cook more quickly than the lower portion. Therefore, it is wise to turn tall foods during cooking, sometimes several times.

Moisture content of foods: Since the heat generated from microwaves tends to evaporate moisture, relatively dry foods such as roasts and some vegetables should either be sprinkled with water prior to cooking or covered to moisture.

Bone and fat content of foods: Bones conduct heat

and fat cooks more quickly than meat. Therefore, care must be taken when cooking bony or fatty cuts of meat that the meats do not cook unevenly and do not become overcooked.

Introduction

Quantity of foods: The number of microwaves in your oven remains constant regardless of how much food is being cooked. Therefore, the more food you place in the oven, the longer the cooking time. Remember to decrease cooking times by at least one third when halfing a recipe.

Shape of foods: Microwaves penetrate only about 1 inch (2.5cm) into foods the interior portion of thick foods are cooked as the heat generated on the outside travels inward. In other words, only the outer edge of any foods is actually cooked by microwave energy; the rest is cooked by convection. It follows then that the worst possible shape for a food that is to be microwaved is a thick square. The corners will burn long before the centre is even warm. Round thin foods and ring shaped foods cook successfully in the microwave.

Special Techniques In Microwave Cooking

Browning: Meats and poultry that are cooked fifteen minutes or longer will brown lightly in their own fat. Foods that are cooked for a shorter period of time may be brushed with a browning sauce to achieve an appetizing colour. The most commonly used browning sauces are Worcestershire sauce, soya sauce and barbecue sauce. Since relatively small amounts of browning sauces are added to foods, the original flavour of recipes are not altered.

Covering: A cover traps heat and steam which causes food to cook more quickly. You may either use a lid or microwave clingfilm with a corner folded back to prevent splitting.

Covering with greaseproof paper: Greaseproofing effectively prevents spattering and helps food retain some heat. But because it makes a looser cover than a lid or clingfilm, it allows the food to dry out slightly. Wrapping in greaseproof or paper towel:

Sandwiches and many other foods containing prebaked bread should be wrapped prior to microwaving to prevent drying out.

Arranging and spacing: Individual foods such as baked potatoes, small cakes and hors d'oeuvres will heat more evenly if placed in the oven an equal distance apart, preferably in a circular pattern. Never stack foods on top of one another.

Stirring: Stirring is one of the most important of all microwaving techniques. In conventional cooking, foods are stirred for the purpose of blending. Microwaved foods, however, are stirred in order to spread and redistribute heat. Always stir from the outside towards the centre as the outside of the food heats first.

Turning over: Large, tall foods such as roasts and whole chickens should be turned so that the top and bottom will cook evenly. It is also a good idea to turn cut up chicken and chops.

Placing thicker portions facing outwards: Since microwaves are attracted to the outside portion of foods, it makes sense to place thicker portions of meat, poultry and fish to the outer edge of the baking dish. This way, thicker portions will receive the most microwave energy and the foods will cook evenly. Shielding: Strips of aluminium foil, which block microwaves, are sometimes placed over the corners

microwaves, are sometimes placed over the corners or edges of square and rectangular foods to prevent those portions from overcooking. Never use too much foil and make sure the foil is tightly secured to the dish or it may cause 'arcing' in the oven.

Elevating: Thick or dense foods are often elevated so that microwaves can be absorbed by the underside and centre of the foods.

Piercing: Foods enclosed in a shell, skin or membrane are likely to burst in the oven unless they are pierced prior to cooking. Such foods include both yolks and whites of eggs, clams and oysters and many whole vegetables and fruits.

Testing if cooked: Because foods cook so quickly in a microwave oven, it is necessary to test food frequently. Some foods are left in the microwave until completely cooked, but most foods, including meats and poultry, are removed from the oven while still slightly undercooked and allowed to finish cooking during standing time. The internal temperature of foods will rise between 5 °F(3 °C) and 15 °F (8 °C) during standing time.

Standing time: Foods are often allowed to stand for 3 to 10 minutes after being removed from the microwave oven. Usually the foods are covered during standing time to retain heat unless they are supposed to be dry in texture (some cakes and biscuits, for example). Standing allows foods to finish cooking and also helps flavour blend and develop.

Introduction

Microwave-Safe Utensils

Never use metal or metal trimmed utensils in your microwave oven. Microwaves cannot penetrate metal. They will bounce off any metal object in the oven and cause arcing, an alarming phenomenon that resembles lightning.

Most heat resistant non metallic cooking utensils are safe for use in your microwave oven. However, some may contain materials that render them unsuitable as microwave cookware. If you have any doubts about a particular utensil, there's a simple way to find out if it can be used in your microwave oven.

Testing utensils for microwave use: Place the utensil in question next to a glass bowl filled with water in the microwave oven.

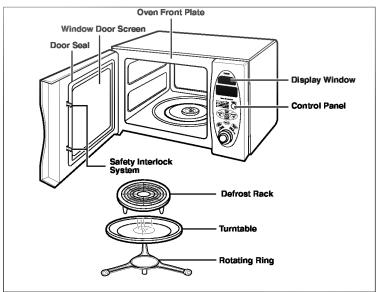
Microwave at power HIGH for 1 minute. If the water heats up but the utensil remains cool to the touch, the utensil is microwave-safe. However, if the water does not change temperature but the utensil becomes warm, microwaves are being absorbed by the utensil and it is not safe for use in the microwave oven. You probably have many items on hand in your kitchen right now that can be used as cooking equipment in your microwave oven. Just read through the following checklist.

- **1. Dinner plates:** Many kinds of dinner-ware are microwave-safe. If in doubt consult the manufacturer's literature or perform the microwave test.
- 2. Glassware: Glassware that is heat-resistant is microwave-safe. This would include all brands of oven tempered glass cookware. However, do not use delicate glassware, such as turnblers or wine glasses, as these might shatter as the food warms.

- 3. Paper: Paper plates and containers are convenient and safe to use in your microwave oven, provided that the cooking time is short and foods to be cooked are low in fat and moisture. Paper towels are also very useful for wrapping foods and for lining baking trays in which greasy foods such as bacon are cooked. In general, avoid coloured paper products as the colour may run.
- **4. Plastic storage containers:** These can be used to hold foods that are to be quickly reheated. However, they should not be used to hold foods that will need considerable time in the oven as hot foods will eventually warp or melt plastic containers.
- **5. Plastic cooking bags:** These are microwave-safe. provided they are specially made for cooking. However, be sure to make a slit in the bag so that steam can escape. Never use ordinary plastic bags for cooking in your microwave oven,as they will melt and rupture.
- **6. Plastic microwave cookware:** A variety of shapes and sizes of microwave cookware is available. For the most part, you can probably microwave items you already have on hand rather than investing in new kitchen equipment.
- **7. Pottery, stoneware and ceramic:** Containers made of these materials are usually fine for use in your microwave oven, but they should be tested to be sure.

CAUTION: HIGH IRON CONTENT, HIGH LEAD CONTENT, SOME ITEMS NOT FOR COOKING.

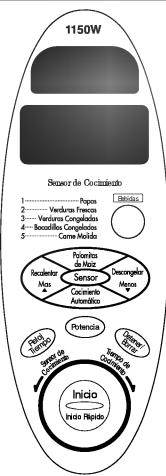
Features Diagram / Control Panel



Your oven will be packed with the following materials:

Glass Turntable1
Rotating Ring1
Owner's Manual1
Defrost Rack1

This microwave oven is designed for household use only. It is not recommended for commercial purposes.



NOTE: A beep sounds when a pad on the control panel is touched, to indicate a setting has been entred.

SETTING THE CLOCK



1. Touch DETENER/BORRAR.



2. Touch **RELOJ/TIEMPO** for 3 seconds. **12 00 AM** shows in the display.



 Turn DIAL knob until display shows
 11 00 AM.
 11 00 AM Toque INICIO o Girar la PERILLA shows in the display.



4. Touch INICIO.



5. Turn DIAL knob until display shows11 11 AM.11 11 AM Toque INICIO o Girar la PERILLA shows in the display.



6. Touch INICIO.11 11 AM shows in the display.

Example: To set the clock for 11 11 AM.

When your oven is plugged in or after a power interruption, PLEASE SET TIME OF DAY will scroll on the display.

NOTE: You can switch between AM and PM by touching RELOJ/TIEMPO before starting the clock.

CHILD LOCK

To set CHILD LOCK:



Touch DETENER/BORRAR.
 Hold until "CIERRE" appears in the display.

To cancel CHILD LOCK:



Touch DETENER/BORRAR.
 Hold until "CIERRE" disappears from the display.

You can use this safety feature to lock the control panel so that children cannot use the oven when you do not want them to and when you are cleaning the oven.

ADD 1 MINUTES



1. Touch DETENER/BORRAR.



Touch INICIO twice.
 00 shows in the display.
 Time counting down.

Example: To cook for 2 minutes.

This time-saving feature lets you cook at 100% power for up to 99 minutes, 59 seconds. One minute is added to the cook time each time you press INICIO RÁPIDO.

TIMED COOKING



1. Touch DETENER/BORRAR.



2. Turn **DIAL** knob until display shows 5 30.

5 30 Toque INICIO o NIVEL de POTENCIA Girar la PERILLA shows in the display.



3. Touch POTENCIA.

Nivel de POTENCIA Girar la PERILLA shows in the display.



 Turn DIAL knob until display shows P-80. P-80 Toque INICIO shows in the display.



5. Touch INICIO.5 30 shows in the display.Time counting down.

Example: To cook for 5 minutes, 30 seconds at 80% power.

This feature lets you program a specific cook time and power. For best results, there are 10 power level settings in addition to HIGH power (100%). Refer to the Microwave Power Level Chart on page 13 for more information.

NOTE: If you do not select a power level, the oven will automatically cook at HIGH (100%) power.

MICROWAVE POWER LEVELS

Your microwave oven has 10 cook power levels to let you cook or heat a wide variety of foods. Refer to the chart below for suggestions:

PowerLevel	Use
100% (High)	 Boiling water. Making candy. Cooking poultry pieces, fish, & vegetables. Cooking tender cuts of meat. Whole poultry.
90%	Reheating rice, pasta, & vegetables.
80%	 Reheating prepared foods quickly. Reheating sandwiches.
70%	 Cooking egg, milk, & cheese dishes. Cooking cakes, breads. Melting chocolate.
60%	Cooking veal. Cooking whole fish. Cooking pudding & custard.
50%	 Cooking ham, whole poultry, & lamb. Cooking rib roast, sirloin tip.
40%	Thawing meat, poultry, & seafood.
30%	 Cooking less tender cuts of meat. Cooking pork chaps, roast.
20%	Taking chill out of fruit. Softening butter.
10%	 Keeping casseroles & main dishes warm. Softening butter & cream cheese.

AUTO COOK



1. Touch **DETENER/BORRAR**.



2. Touch COCIMIENTO AUTOMATICO. COCIDO AUTOMATICO Girar la PERILLA shows in the display.

This feature allows to cook foods that you select by touching AUTO COOK pad, You choose 4 categories in this function; RICE, BACON, FISH SEA FOOD, CASSEROLE.

Example: To cook 4 slices bacon.



3. Turn **DIAL** knob until display shows BACON. **Cacerola toque INICIO** shows in the display.



 Touch INICIO.
 Gire la PERILLA para su seleccion shows in the display.



5. Turn **DIAL** knob until display shows 4 SLICES. **4 Tazas Toque INICIO** shows in the display.



6. Touch **INICIO.**Time counting down

AUTO COOK CHART

CATEGORY	DIRECTION	AMOUNT
Rice	Add 2 times the volume of boiling water to the rice or pasta. Cover with lid place the dish on the center of the turntable. After cooking, let stand 3 to 5 minutes or until all liquid has been absorbed.	1 to 2 cups
Bacon	Place bacon strips on microwave bacon rack for best results (Use dinner plate lined with paper towels if none available).	2 to 6 slices
Fish Sea Food	Choose fish of a similar shape and size. Place in a single layer in a flan dish. Cover with cling film. After cooking, let stand 2 minutes.	8 to 32 oz.
Casserole	Place the casserole in the dish and cover with lid. After cooking, let stand 5 minutes.	1 to 4 cups

MORE/LESS



1. Touch COCIMIENTO AUTOMATICO.



To adjust cooking time during Auto cook.



2. Select category by turning DIAL knob.

By using the MAS and MENOS functions, you can adjust the cooking time for Auto cook for a longer or shorter time. Pressing MAS will add 10 seconds to the cooking time each time you press it. Pressing MENOS will subtract 10 seconds from the cooking time each time you press it.



3. Touch INICIO.

5. Touch INICIO.



4. Select quantity by turning DIAL knob.





6. Touch **MAS** during cooking. (add 10 seconds)

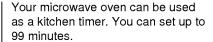


6. Touch **MENOS** during cooking. (subtract 10 seconds)

TIMER



 Touch TIEMPO.
 Tiempo en MINUTOS Y SEGUNDOS Girar la PERILLA shows in the display.





 Turn DIAL knob until display shows TIMER.
 Toque INICIO shows in the display.



3. Touch **INICIO.**Time counting down.

SENSOR REHEAT



1. Touch DETENER/BORRAR.



Touch RECALENTAR.
 RECALENTAR shows in the display.
 The oven starts working without the need to touch start.

Sensor Reheat made easy. You can reheat food by touching only one key.

Example: To reheat refrigerated foods.

SENSOR DEFROST



1. Touch DETENER/BORRAR.



 Touch DESCONGELAR.
 Para sobre 1kg Toque otra vez shows in the display.



3. Touch **DESCONGELAR. hasta 1kg DESCONGELAMIENTO**shows in the display.

SENSOR DEFROST thaws frozen food without entering a cook time or cook power.

For best results:

- Remove fish, shellfish, meat and poultry from its original closed paper or plastic package (wrapper).
 Otherwise, the wrap will hold steam and juice close to the foods, which can cause the outer surface of the foods to cook.
- Shape ground meat into the form of a doughnut before freezing. When defrosting, remove thawed meat when the reminder tone sounds and continue defrosting.
- Place foods in a shallow container or on a microwave roasting rack to catch dripping.
- Food should still be somewhat icy in the center when removed from the oven.

Example: To defrost over 2 LBS.

SENSOR POPCORN



1. Touch DETENER/BORRAR.



- 2. Touch PALOMITAS DE MAIZ.
 Display shows PARA 100 G TOQUE
 OTRA VEZ.
 - The oven starts working without the need to touch **INICIO.**
- 3. **50 G Palomitas de Maiz** shows in the display.

Note: If you want to cook a 100g of popcorn, Touch PALOMITAS DE MAIZ twice.

Use this function to cook popcorn without entering a cook time or power.

Example: To cook a 50g of microwave popcorn.

SENSOR BEVERAGE



- 1. Touch DETENER/BORRAR.
- Touch BEBIDAS.
 BEBIDAS shows in the display.
 The oven starts working without the need to touch start.

By using the BEVERAGE keys, BEVERAGE program can be adjusted to temperature of your one. Pressing Beverage will adjust to temperature each time you press it.

SENSOR COOK



1. Touch **DETENER/BORRAR**.



 Turn DIAL knob to the LEFT until display shows frozen entree.
 Carne molida shows in the display.



3. Touch INICIO.

Carne molida shows in the display.

Sensor cooking provides exciting new features to make microwaving easier. When a sensor is selected, category will appear in the display. During cooking in the Microwave oven, the oven detects the cooking states. According to the detected cooking states, the oven automatically determines required cooking times for each food items. After you put in foods in the Microwave, if you select sensor category, the sensor detect periodically cooking state.

Example: To cook frozen entree.

SENSOR DEFROST CHART

FOODS	WEIGHT RANGE	INSTRUCTIONS
Meat joint Beef / Lamb /Pork	¹ / ₂ ~ 4 lbs.	 Place meat on (in) a recommended utensil on the turntable. When the beep sounds, turn over. To prevent over defrosting, Thin area of edges can be shielded with strips of aluminum foil. Stand, wrapped in foil, for 5 minutes.
Ground meat Beef / Lamb / Pork	¹ / ₂ ~ 4 lbs.	 Place minced meat on (in) a recommended utensil on the turntable. When the beep sounds, turn over. Stand, wrapped in foil, for 5 minutes.
Poultry	¹ / ₂ ~ 4 lbs.	 Place poultry breast side down on (in) a recommended utensil on the turntable. When the beep sounds, turn over. To prevent over defrosting, Thin area of edges can be shielded with strips of aluminum foil. Stand, wrapped in foil, for 10 minutes.
Chicken Pieces	¹ / ₂ ~ 2 lbs.	 Place portion breast side down on a defrost rack or in a suitable dish on the turntable. When the beep sounds, turn over. To prevent over defrosting, Thin area of edges can be shielded with strips of aluminum foil. Stand, wrapped in foil, for 5 minutes until defrost.
Fish	¹ / ₂ ~ 2 lbs.	 Place fish on a defrost rack or in a suitable dish on the turntable. When the beep sounds, turn over. To prevent over defrosting, Thin area of edges can be shielded with strips of aluminum foil. Stand, wrapped in foil, for 5 minutes until defrost.

NOTE:

- For the best results, remove meat joint, minced meat, poultry, chicken portion, fish and bread from its original paper or plastic package(wrapper). Otherwise it will hold steam and juice close to the food which can cause the outer surface of the food to cook.
- Do not open the door during the defrosting process. This cause inaccurate cooking results. When the beep sounds, you can open the oven door and turn over.

SENSOR COOK CHART

FUNCTION	CATEGORY	AMOUNT	UTENSILS	COVER	INSTRUCTIONS
SENSOR	Beverage	1 ~ 2 cups	Mug	None	Place in the mug on the turntable.
COOK	Popcorn	1.75 ~ 3.5 oz.			Heat only 1 package at a time. Do not leave the microwave oven Unattended while popping popcorn.
	Potato (230g each)	1 ~ 4 ea.		None	 Pierce each potato four times on each side. Place on the outside of the turntable evenly spaced. After cooking, let stand 5 minutes.
	Fresh vegetable	1 ~ 6 cups	Casserole	Wrap	 Place in a microproof bowl or casserole. Cover with plastic wrap (vented). Do not with lid. Add amount of water according to the quantity. (1 cup = 2 Ts, 2 cups = 1/4 cup, 3 cups = 1/3 cup, 4 cups = 1/2 cup)
	Frozen vegetable	¹ / ₂ ~ 2 lbs.	Casserole dish	Wrap	 Place in a microproof bowl or casserole. Cover with plastic wrap (vented). Do not with lid. Add amount of water according to the quantity. (1 cup = 2 Ts, 2 cups = 1/4 cup, 3 cups = 1/3 cup, 4 cups = 1/2 cup)
	Frozen Entree	10 ~ 21 oz.	Tray provided		Follow the package directions. If package direction suggests that remove the cover, just make slits on cover instead of removing.
	Ground meat	¹ / ₂ ~ 2 lbs.	Casserole	Wrap dish	Crumble into an appropriately size microwavable container and push. Gently to the sides, leaving a void in the center. Cover with plastic wrap. Do not use with lid.

NOTE:

- Do not Sensor cook if the glass tray is already hot, otherwise the food will not cook properly. Beginning with the glass tray at room temperature will yield the best results.
- Do not open the door during the reheating process. This causes inaccurate cooking results. Once the timer begins to count down, the oven door may be opened to stir, shield or add foods.

WARNING: Do not use aluminum foil during cooking cycle.

COOKING TIPS

Meat

- No special techniques are required. Meat should be prepared as with conventional cooking.
 Season if desired. Always thoroughly defrost meat before cooking.
- 2. Place the meat on a microwave roasting rack or microwave-proof plate and place on the turntable.
- Cook according to the Meat Cooking Chart (below).
 Use the longer time for large meats and the shorter time for smaller meats. For thicker chops, use the longer time.
- 4. Turn the meat once halfway through the cooking time
- 5. Let stand for 5-10 minutes wrapped in foil after cooking. The standing time is very important as it completes the cooking process.
- **6.** Make sure meat, especially pork, is thoroughly cooked before eating.

Meat Cooking Chart

Meat	Microwave Power	Cooking Time Per Pound
BEEF Standing/Rolled Rib - Rare - Medium - Well-done Ground Beef (to brown for casserole) Hamburgers, Fresh or defrosted (4 oz. each) - 2 patties - 4 patties	8 8 8 HIGH(100%) HIGH(100%)	8½ to 10½ minutes 9 to 11 minutes 11 to 13½ minutes 6 to 9 minutes 2 to 4 minutes 3 to 5 minutes
PORK Loin, Leg Bacon - 4 slices - 6 slices	8 HIGH(100%) HIGH(100%)	12 to 16 minutes 2 to 3 minutes 3 to 4 minutes

NOTE: The times listed above are only a guide. Allow for difference in individual tastes and preferences. The times may also vary due to the shape, cut, and composition of the food.

Poultry

- No special techniques are required. Poultry should be prepared as with conventional cooking. Season if desired.
- Poultry should be thoroughly defrosted. Remove giblets and any metal clamps.
- **3.** Prick the skin and brush lightly with vegetable oil unless the poultry is self-basting.
- 4. All poultry should be placed on a microwave roasting rack or a microwave-proof plate and placed on the turntable.
- 5. Cook according to the instructions in the Poultry Cooking Chart below. Turn over halfway through the cooking time. Because of its shape, poultry has a tendency to cook unevenly, especially in very bony parts. Turning during roasting helps to cook these areas evenly.
- **6.** Let stand for 5-10 minutes wrapped in foil after cooking before carving. The standing time is very important, as it completes the cooking process.
- 7. Make sure poultry is thoroughly cooked before eating. Whole poultry is completely cooked when the juices run clear from the inside thigh when it is pierced with a sharp knife. Poultry pieces should be pierced with a sharp knife through the thickest part to ensure that the juices are clear and the flesh is firm.

Poultry Cooking Chart

Poultry	Microwave Power	Cooking Time Per Pound	
CHICKEN Whole Breast (boned) Portions	8 8 8	10 to 14 minutes 9 to 13 minutes 10 to 16 minutes	
TURKEY Whole	8	10 to 14 minutes	

NOTES:

- The times listed above are only a guide. Allow for difference in individual tastes and preferences. The times may also vary due to the shape, cut, and composition of the food.
- If whole poultry is stuffed, the weight of the stuffed bird should be used when calculating the cooking time.

COOKING TIPS (continued)

Fish

- 1. Arrange fish in a large shallow non-metallic dish or casserole.
- 2. Cover with pierced microwave plastic wrap or casserole lid.
- 3. Place the dish on the turntable.
- **4.** Cook according to the instructions in the Fresh Fish Cooking Chart below. Flakes of butter can be added to the fish if desired.
- 5. Let stand as directed in the Cooking Chart before serving.
- 6. After standing time, check to see that the fish is thoroughly cooked. The fish should be opaque and flake easily.

Fresh Fish Cooking Chart

Fish	Microwave Power	Cooking Time Per Pound	Butter	Standing Time
Fish Fillets	HIGH	4 to 7 minutes	Add 15 to 30 ml (1 to 2 tbsp.)	2 to 3 minutes
Whole Mackerel, Cleaned and Prepared	HIGH	4 to 7 minutes	-	3 to 4 minutes
Whole Trout, Cleaned and Prepared	HIGH	5 to 8 minutes	_	3 to 4 minutes
Salmon Steaks	HIGH	5 to 7 minutes	Add 15 to 30 ml (1 to 2 tbsp.)	3 to 4 minutes

Heating or Reheating Guide

To heat or reheat successfully in the microwave, it is important to follow several guidelines. Measure the amount of food in order to determine the time needed to reheat. Arrange the food in a circular pattern for best results. Room temperature food will heat faster than refrigerated food. Canned foods should be taken out of the can and placed in a microwavable container. The food will be heated more evenly if covered with a microwavable lid or plastic wrap and vented. Remove cover carefully to prevent steam burns. Use the following chart as a guide for reheating cooked food.

Items Cook time (at HIGH)		Special Instructions
Sliced meat 3 slices (1/ ₄ -inch thick)	1-2 minutes	Place sliced meat on microwavable plate. Cover with plastic wrap and vent. *Note: Gravy or sauce helps to keep meat juicy.
Chicken pieces 1 breast 1 leg and thigh	$2-31/_2$ minutes $11/_2$ -3 minutes	Place chicken pieces on microwavable plate. Cover with plastic wrap and vent.
Fish fillet (6-8 oz.)	2-4 minutes	Place fish on microwavable plate. Cover with plastic wrap and vent.
Lasagna 1 serving (10¹/₂ oz.)	4-6 minutes	Place lasagna on microwavable plate. Cover with plastic wrap and vent.
Casserole 1 cup 4 cups	1-31/ ₂ minutes 5-8 minutes	COOK covered in microwavable casserole. Stir once halfway through cooking.
Casserole – cream or cheese 1 cup 4 cups	1 ¹ / ₂ -3 minutes 3 ¹ / ₂ -5 ¹ / ₂ minutes	COOK covered in microwavable casserole. Stir once halfway through cooking.
Sloppy Joe or Barbecued beef 1 sandwich (¹/₂ cup meat filling) without bun	1 -2 ¹ / ₂ minutes	Reheat filling and bun separately. Cook filling covered in microwavable casserole. Stir once. Heat bun as directed in chart below.
Mashed potatoes 1 cup 4 cups	1-3 minutes 5-8 minutes	COOK covered in microwavable casserole. Stir once halfway through cooking.
Baked beans 1 cup	11/ ₂ -3 minutes	COOK covered in microwavable casserole Stir once halfway through cooking.
Ravioli or pasta in sauce 1 cup 4 cups	21/ ₂ -4 minutes 71/ ₂ -11 minutes	COOK covered in microwavable casserole. Stir once halfway through cooking.
Rice 1 cup 4 cups	$1^{1/}_{2}$ - $3^{1/}_{2}$ minutes 4 - $6^{1/}_{2}$ minutes	COOK covered in microwavable casserole. Stir once halfway through cooking.
Sandwich roll or bun 1 roll	15-30 seconds	Wrap in paper towel and place on glass mircrowavable rack.
Vegetables 1 cup 4 cups	11/ ₂ -4 minutes 5-8 minutes	COOK covered in microwavable casserole. Stir once halfway through cooking.
Soup 1 serving (8 oz.)	11/ ₂ -21/ ₂ minutes	COOK covered in microwavable casserole. Stir once halfway through cooking.

Fresh Vegetable Chart

Vegetable	Amount	Cook time at HIGH	Instructions	Standing Time
Artichokes (8oz. each)	2 medium 4 medium	5-8 10-13	Trim. Add 2 tsp water and 2 tsp juice. Cover.	2-3 minutes
Asparagus, Fresh, Spears	1lb.	3-7	Add 1/ ₂ cup water. Cover.	2-3 minutes
Beans, Green & Wax	1 lb.	8-12	Add $1/2$ cup water in $11/2$ qt. casserole. Stir halfway through cooking.	2-3 minutes
Beets, Fresh	1 lb.	14-18	Add $^{1}/_{2}$ cup water in $1^{1}/_{2}$ qt. covered casserole. Rearrange halfway through cooking.	2-3 minutes
Broccoli, Fresh, Spears	1lb.	5-9	Place broccoli in baking dish. Add 1/2 cup water.	2-3 minutes
Cabbage, Fresh, Chopped	1 lb.	6-8	Add $1/_2$ cup water in $11/_2$ qt. covered casserole. Stir halfway through cooking.	2-3 minutes
Carrots, Fresh, Sliced	2 cups	3-6	Add ¹ / ₄ cup water in 1 qt. covered casserole. Stir halfway through cooking.	2-3 minutes
Cauliflower, Fresh, Whole	1lb.	7-11	Trim. Add $^{1}\!/_{4}$ cup water in 1 qt. covered casserole. Stir halfway through cooking.	2-3 minutes
Flowerettes, Fresh Celery, Fresh, Sliced	2 cups 4 cups	3-5 7-9	Slice. Add $^{1}/_{2}$ cup water in $1^{1}/_{2}$ qt. covered casserole. Stir halfway through cooking.	2-3 minutes
Corn, Fresh	2 ears	5-9	Husk. Add 2 tbsp water in 1½ qt. baking dish. Cover.	2-3 minutes
Mushrooms, Fresh, Sliced	1/2 lb.	2-3 ¹ / ₂	Place mushrooms in $1^{1}/_{2}$ qt. covered casserole. Stir halfway through cooking.	2-3 minutes
Parsnips, Fresh, Sliced	1 lb.	4-8	Add $^{1}\!/_{2}$ cup water in $^{11}\!/_{2}$ qt. covered casserole. Stir halfway through cooking.	2-3 minutes
Peas, Green, Fresh	4 cups	7-10	Add $^{1}\!/_{2}$ cup water in $1^{1}\!/_{2}$ qt. covered casserole. Stir halfway through cooking.	2-3 minutes
Sweet Potatoes Whole Baking (6-8 oz. each)	2 medium 4 medium	5-10 7-13	Pierce potatoes several times with fork. Place on 2 paper towels. Turn over halfway through cooking.	2-3 minutes 2-3 minutes
White Potatoes, Whole Baking (6-8 oz. each)	2 potatoes 4 potatoes	5-8 9-15	Pierce potatoes several times with fork. Place on 2 paper towels. Turn over halfway through cooking.	2-3 minutes 2-3 minutes
Spinach, Fresh, Leaf	11b.	5-8	Add ¹ / ₂ cup water in 2 qt. covered casserole.	2-3 minutes
Squash, Acorn or Butternut, Fresh	1 medium	7-9	Cut squash in half. Remove seeds. Place in 8 x 8-inch baking dish. Cover.	2-3 minutes
Zucchini, Fresh, Sliced	1lb.	5-8	Add $^{1}\!/_{2}$ cup water in $1^{1}\!/_{2}$ qt. covered casserole. Stir halfway through cooking.	2-3 minutes
Zucchini, Fresh, Whole	1lb.	7-10	Pierce. Place on 2 paper towels. Turn zucchini over and rearrange halfway through cooking.	2-3 minutes

Other Helpful Instructions

For Best Results:

- When determining the time for a particular food, begin by using minimum time and checking occasionally for doneness. It is easy to overcook food because microwaves cook very quickly.
- Small quantities of food or foods with low water content may dry out and become hard if cooked too long.
- 3. Do not use the oven for drying kitchen towels or paper products. They may burn.
- 4. Break eggs before cooking them in the microwave.
- For food items such as apples, potatoes, egg yolks, chicken livers, etc., be sure to pierce the skin or membrane to prevent bursting of the food while cooking in the oven.

Defrosting Frozen Foods:

- Foods that have been frozen can be placed directly in the oven for thawing. (Be certain to remove any metallic ties or wraps.)
- 2. Defrost according to the Defrost Guide found in this Manual.
- For areas of the food thawing faster than others, shield if necessary.
 This helps slow down or stop the defrosting process.
- 4. Some foods should not be completely thawed before cooking. For example, fish cooks so quickly that it is sometimes better to begin cooking while still slightly frozen.
- 5. It may be necessary to increase or decrease the cooking time in some recipes, depending on the starting temperature of the foods.

NOTE:

Air from the vent may become warm during cooking. This is normal.

Browning:

There are a few foods which are not cooked long enough in the microwave oven to brown and may need additional colour.

Coatings such as SHAKE & BAKE®, paprika, and browning agents such kichen bouquet® or Worcestershire sauce may be used on chops, meat patties or chicken parts.

Roasts, poultry or ham, cooked for 10-15 minutes or longer, will brown nicely without extra additives.

Cooking Utensils:

- 1. Most glass, ceramic glass and heat resistant glassware utensils are excellent.
- Most paper napkins, towels, plates, cups, cartons, and cardboard are convenient utensils. Some recycled paper products may contain impurities which could cause arcing or fires when used in the microwave oven.
- Some plastic dishes, cups, containers, and wraps may be used in the microwave oven. Follow the manufacturer's instructions or information given in the cooking guide when using plastics in the microwave oven.
- Metal utensils and utensils with metallic trim should not be used in the microwave oven.

To Clean Your Oven:

- 1. Keep the inside of the oven clean, Food spatters or spilled liquids stick to oven walls and between seal and door surface. It is best to wipe up spillovers with a damp cloth right away. Crumbs and spillovers will absorb microwave energy and lengthen cooking times. Use a damp cloth to wipe out crumbs that fall between the door and the frame. It is important to keep this area clean to assure a tight seal. Remove greasy spatters with a sudsy cloth then rinse and dry. Do not use harsh detergent or abrasive cleaners. The glass tray can be washed by hand or in the dishwasher.
- Keep the outside of the oven clean.
 Clean the ouside of your oven with soap and water then with clean water and dry with a soft cloth or paper towel. To prevent damage to the operating parts inside the oven, the water should not be allowed to seep into the ventilation openings.
 - To clean control panel, open the door to prevent oven from accidentally starting, and wipe with a damp cloth followed immediately by a dry cloth. Press PARAR/BORRAR after cleaning.
- 3. If steam accumulates inside or around the outside of the oven door, wipe the panels with a soft cloth. This may occur when the microwave oven is operated under high humidity conditions and in no way indicates a malfunction of the unit.
- 4. The door and door seals should be kept clean. Use only warm, soapy water, rinse then dry thoroughly. DO NOT USE ABRASIVE MATERIALS, SUCH AS CLEANING POWDERS OR STEEL AND PLASTIC PADS. Metal parts will be easier to maintain if wiped frequently with a damp cloth.

Safety Precautions

- 1. Do not attempt to tamper with, or make any adjustments or repairs to the door, control panel, safety interlock switches or any other part of the oven. Repairs should only be undertaken by a qualified service technician.
- 2. Do not operate the oven when empty. It is best to leave a glass of water in the oven when not in use. The water will safely absorb all microwave energy, if the oven is accidentally started.
- 3. Do not dry clothes in the microwave oven, which may become carbonized or burned if heated too long.
- 4. Do not cook food wrapped in paper towels, unless your cook book contains instructions, for the food you are cooking.
- 5. Do not use newspaper in place of paper towels for cooking.
- Do not use wooden containers. They may heat-up and char.
 Do not use metal containers or crockery containers which have metallic (e.g. gold or silver) inlays. Always remove metal twist ties.
 - Metal objects in the oven may arc, which can cause serious damage.
- 7. Do not operate the oven with a kitchen towel, a napkin or any other obstruction between the door and the front edges of the oven, which may cause microwave energy leakage.
- 8. Do not use recycled paper products since they may contain impurities which may cause sparks and/or fires when used in cooking.
- 9. Do not rinse the turntable by placing it in water just after cooking. This may cause breakage or damage.
- 10. Small amounts of food require shorter cooking or heating time. If normal times are allowed they may overheat and burn.
- 11. Be certain to place the oven so the front of the door is 8cm or more behind the edge of the surface on which it is placed, to avoid accidental tipping of the appliance.
- 12. Before cooking, pierce the skin of potatoes, apples or any such fruit or vegetable.
- 13. Do not cook eggs in their shell. Pressure will build up inside the egg which will burst.
- 14. Do not attempt deep fat frying in your oven.
- 15. Remove the plastic wrapping from food before cooking or defrosting. Note though that in some cases food should be covered with plastic film, for heating or cooking, as detailed in microwave cook books.
- 16. The oven must never be used if the door sealing is not in good working order.
- 17. When liquids are cooked in microwave units, they may be overheated above their boiling point without visible bubbling. When the container is removed, the shock may cause the sudden formation of steam bubbles. A fountain of hot liquid can spring up out of the container explosively.
- 18. If smoke is observed keep the oven door closed and switch off or disconnect the oven from the power supply.
- 19. When food is heated or cooked in disposable containers of plastic, paper or other combustible materials look at the oven frequently to check if the food container is deteriorating.

WARNING—Please ensure cooking times are correctly set as over cooking may result in FIRE and subsequent DAMAGE to the OVEN.

Questions And Answers

- Q.What's wrong when the oven light will not glow?
- A. There may be several reasons why the oven light will not glow.
 - Light bulb has blown.
 - Door is not closed.
- Q. Does microwave energy pass through the viewing screen in the door?
- A. No. The holes, or ports, are made to allow light to pass; they do not let microwave energy through.
- Q. Why does the beep tone sound when a pad on the Control Panel is touched?
- A. The beep tone sounds to assure that the setting is being properly entered.
- Q. Will the microwave oven be damaged if it operates while empty?
- A. Yes. Never run it empty or without the glass tray.
- Q. Why do eggs sometimes pop?
- A. When baking, frying, or poaching eggs, the yolk may pop due to steam build up inside the yolk membrane. To prevent this, simply pierce the yolk before cooking. Never microwave eggs in the shell.
- Q. Why is standing time recommended after microwave cooking is over?
- A. After microwave cooking is finished, food keeps on cooking during standing time. This standing time finishes cooking evenly throughout the food. The amount of standing time depends on the density of the food.
- Q. Is it possible to pop popcorn in a microwave oven?
- A. Yes, if using one of the two methods described below:
 - (1) Popcorn-popping utensils designed specifically for microwave cooking.
 - (2) Prepackaged commercial microwave popcorn that contains specific times and power outputs needed for an acceptable final product.

FOLLOW EXACT DIRECTIONS GIVEN BY EACH MANUFACTURER FOR THEIR POPCORN PRODUCT. DO NOT LEAVE THE OVEN UNATTENDED WHILE THE CORN IS BEING POPPED. IF CORN FAILS TO POP AFTER THE SUGGESTED TIMES, DISCONTINUE COOKING. OVERCOOKING COULD RESULT IN AN OVEN FIRE.

CAUTION: NEVER USE A BROWN PAPER BAG FOR POPPING CORN. NEVER ATTEMPT TO POP LEFTOVER KERNELS.

- Q. Why doesn't my oven always cook as fast as the cooking guide says?
- A. Check your cooking guide again to make sure you've followed directions correctly, and to see what might cause variations in cooking time. Cooking guide times and heat settings are suggestions, chosen to help prevent over-cooking, the most common problem in getting used to a microwave oven. Variations in the size, shape, weight and dimensions of the food require longer cooking time. Use your own judgement along with the cooking guide suggestions to test for doneness, just as you would do with a conventional cooking.