



OWNER'S MANUAL

MICROWAVE OVEN

PLEASE READ THIS OWNER'S MANUAL THOROUGHLY
BEFORE OPERATING.

LCS1413** / LCRT1513**



MFL30128603

www.lg.com

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Thank you for purchasing a LG microwave oven.

Please record the model number and serial number of this unit for future reference. We also suggest you record the details of your contact with LG (LG Electronics U.S.A., Inc.) concerning this unit.

Staple your receipt here for proof of purchase.

Model No: _____

Serial No: _____

Dealer: _____

Dealer Phone No: _____

Customer Relations
 LG Electronics U.S.A., Inc.
 Service Division Bldg. #3
 201 James Record Rd.
 Huntsville, AL 35824-0126

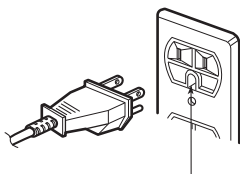
SAFETY

PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- **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.
- **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 close properly and that there is no damage to the:
 - door (bent),
 - hinges and latches (broken or loosened),
 - door seals and sealing surfaces.
- **The oven should not be adjusted or repaired** by anyone except properly qualified service personnel.

GROUNDING INSTRUCTIONS

This appliance must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This appliance is equipped with a cord having a grounding wire and a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded.



Ensure proper ground exists before use

WARNING

Improper grounding can result in a risk of electric shock. Consult a qualified electrician if the grounding instructions are not completely understood, or if doubt exists as to whether the appliance is properly grounded, and either:

1. If it is necessary to use an extension cord, use only a 3-wire extension cord that has a 3-blade grounding plug and a 3-slot receptacle that will accept the plug on the appliance.
2. Do not use an extension cord. If the power supply cord is too short, have a qualified electrician or serviceman install an outlet near the appliance.
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 extension cord must be a grounding-type 3-wire cord, and (3) 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.

SAFETY

IMPORTANT SAFETY INSTRUCTIONS

The safety instructions below will tell you how to use your oven to avoid harm to yourself or damage to your oven.



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

1. Read all instructions before using the appliance.

2. Read and follow the specific **PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY** found on page 3 of this manual.

3. This appliance must be grounded. Connect only to properly grounded outlet.

See **GROUNDING INSTRUCTIONS** found on page 3 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 are able to 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 the 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, near a swimming pool, or similar location.

12. Do not immerse cord or plug in water.

13. Keep cord away from heated surfaces.

14. Do not let cord hang over the edge of a table or counter.

15. When cleaning surfaces of door and oven that come together on closing the door, use only mild, nonabrasive soaps or detergents applied with a sponge or soft cloth.

16. To reduce the risk of fire in the oven cavity:

a. Do not overcook food. Carefully attend appliance when paper, plastic, or other combustible materials are placed inside the oven to facilitate cooking.

b. Remove wire twist-ties from paper or plastic bags before placing bag in oven.

c. If materials inside the oven ignite, **KEEP OVEN DOOR CLOSED**, turn oven off, and disconnect the power cord or shut off power at the fuse or circuit breaker panel.

d. Do not use the cavity for storage purposes. Do not leave paper products, cooking utensils, or food in the cavity when not in use.

SAFETY

- 17.** Liquids such as water, coffee, or tea are able to be overheated beyond the boiling point without appearing to be boiling. Visible bubbling or boiling when the container is removed from the microwave oven is not always present. **THIS COULD RESULT IN VERY HOT LIQUIDS SUDDENLY BOILING OVER WHEN THE CONTAINER IS DISTURBED OR A SPOON OR OTHER UTENSIL IS INSERTED INTO THE LIQUID.** To reduce the risk of injury to persons;
- 1) Do not overheat the liquid.
 - 2) Stir the liquid both before and halfway through heating it.
 - 3) Do not use straight-sided containers with narrow necks.
 - 4) After heating, allow the container to stand in the microwave oven for a short time before removing the container
 - 5) Use extreme care when inserting a spoon or other utensil into the container.
- 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

UNDERSTANDING YOUR MICROWAVE OVEN

SPECIFICATIONS

MODEL	LCS1413**
Power Supply	120 V AC, 60 Hz
Rated Power Consumption	1500W
Microwave Output	*1100 W
Frequency	2450 MHz
Rated Current	13A
Overall Dimensions (WxHxD)	21 7/8"x12 1/2"x16 5/16"
Oven Cavity Dimensions (WxHxD)	15 11/16"x10 3/32"x15 5/8"
Capacity of Oven Cavity	1.4 Cu.ft.

MODEL	LCRT1513 **
Power Supply	120 V AC, 60 Hz
Rated Power Consumption	1500W
Microwave Output	*1100 W
Frequency	2450 MHz
Rated Current	13A
Overall Dimensions (WxHxD)	21 7/8"x12 1/2"x17 7/32"
Oven Cavity Dimensions (WxHxD)	15 21/32"x10 7/16"x15 27/32"
Capacity of Oven Cavity	1.5 Cu.ft.

*IEC 60705 RATING STANDARD

Specifications subject to change without prior notice.

INSTALLATION

A. Circuits

For safety purposes this oven must be plugged into a 20 Amp circuit. No other electrical appliances or lighting circuits should be on this line. If in doubt, consult a licensed electrician.

B. Voltage Warning

The voltage used at the wall receptacle must be the same as specified on the oven name 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 normally in spite of proper voltage, remove and reinsert the plug.

C. 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 at least 100cm (39.4 inches) from floor. Do not place oven above a gas range. Free air flow around the oven is important. Allow at least 4 inches of space at the top, sides, and back of the oven for proper ventilation.

NOTES:

- Never place the turntable in the oven upside down.

D. Do not block the 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. Radio interference

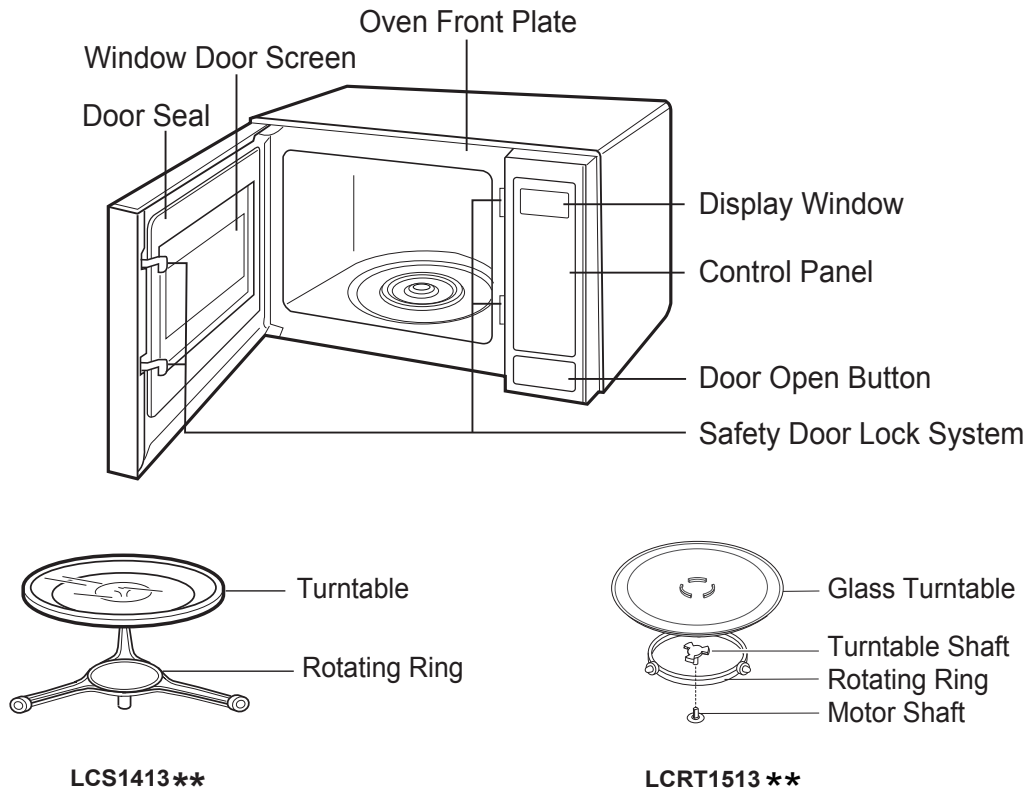
1. Microwave oven operation may interfere with TV or radio reception.
2. When there is interference, it may be reduced or eliminated by taking the following measures:
 - a. Clean the door and the sealing surfaces of the oven.
 - b. Reorient the receiving antenna of radio or TV.
 - c. Relocate the microwave oven in relation to the TV or radio.
 - 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

UNDERSTANDING YOUR MICROWAVE OVEN

PARTS AND ACCESSORIES

Your oven comes with the following accessories:

- Owner's Manual and Cooking Guide : 1 each
- Glass Turntable : 1 each
- Rotating Ring : 1 each



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

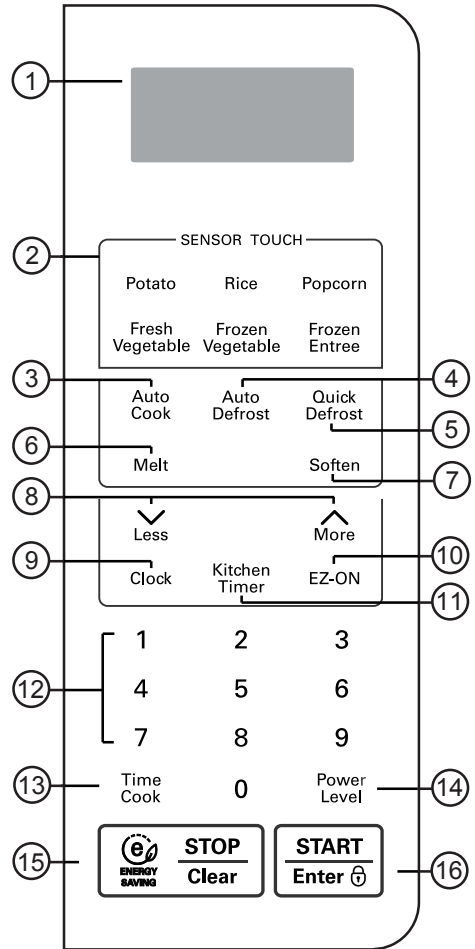
⚠ WARNING:

Do not operate the oven when empty or without the glass tray. It is best to leave a glass water in the oven when not in use. The water will safely absorb all microwave energy, if the oven is accidentally started.

UNDERSTANDING YOUR MICROWAVE OVEN

CONTROL PANEL

1. **DISPLAY.** The display includes a clock and indicators that tell you time of day, cooking time settings, and cooking functions selected.
2. **SENSOR TOUCH.** This pad allows you to cook most of your favorite foods without having to select cooking times and power levels.
3. **AUTO COOK.** Touch this pad to select the foods that you like. It has 6 food categories.
4. **AUTO DEFROST.** Meat, poultry and fish. Touch this pad to select food type and defrost food by weight.
5. **QUICK DEFROST.** Touch this pad to thaw only 1 lb of food very quickly.
6. **MELT.** Touch this pads to melt butter/margarine, chocolate, cheese, or marshmallows.
7. **SOFTEN.** Touch this pad to soften butter, ice cream, cream cheese, or frozen juice.
8. **MORE/LESS COOKING.** By using the More or Less keys, timed cook program can be adjusted to cook food for a longer or shorter time.
9. **CLOCK.** Touch this pad to enter the time of day.
10. **EZ-ON.** Touch this pad, it will add 30 seconds up to 3 minutes 30 seconds; after 3 minutes 30 seconds, every touch will add 1 minute up to 99 min 59 seconds.
11. **KITCHEN TIMER.** Touch this pad to use your microwave oven as a kitchen timer.
12. **NUMBER PADS** Touch number pads to enter cooking time, power level, quantities, or weights.
13. **TIME COOK.** Touch this pad to set a cooking time.
14. **POWER LEVER.** Touch this pad to set a cooking power
15. **STOP/CLEAR.** Touch this pad to stop the oven or clear entries
ENERGY SAVING. Touch this pad also to save energy.
16. **START/ENTER.** START allows oven to begin functioning. Touch this pad to start entries and to turn Child Lock on or off.



UNDERSTANDING YOUR MICROWAVE OVEN

TIPS FOR MICROWAVE COOKING

BROWNING

Meat and poultry with high fat content cooked for at least 10 to 15 minutes will brown lightly. Foods cooked a shorter time can be brushed with a browning agent, such as Worcestershire sauce, soy sauce, or barbecue sauce.

COVERING

A cover will trap heat and steam and cause the food to cook more quickly. Use a lid or microwave-safe plastic wrap with one corner folded back to vent the excess steam. Lids on glass casseroles can become hot during cooking; always handle carefully. Waxed paper will prevent the food from splattering in the oven and help retain heat. When warming bread items, use waxed paper, napkins, or paper towels. To absorb extra moisture, wrap sandwiches and fatty foods in paper towels.

SPACING

Arrange individual foods, such as baked potatoes, cupcakes, and hors d'oeuvres in a circle and at least 1 inch apart. This will help the food cook more evenly.

STIRRING

Stirring blends flavors and redistributes the heat in foods. Always stir from the outside toward the center of the dish. Food at the outside of the dish heats first.

TURNING

Large foods, such as roasts and whole poultry, should be turned so that the top and bottom cook evenly. Also turn over chicken pieces and chops.

ARRANGEMENT

Do not stack food. Arrange in a single layer in the dish for more even cooking. Because dense foods cook more slowly, place thicker portions of meat, poultry, fish, and vegetables toward the outside of the dish.

TESTING FOR DONENESS

Foods cook quickly in a microwave oven; test frequently for doneness.

STANDING TIME

Food often needs to stand from 2 to 15 minutes after being removed from the oven. Usually, you need to cover food during standing time to retain heat. Remove most foods when they are slightly undercooked and they will finish cooking during standing time. The internal temperature of food will rise about 10°F during standing time.

SHIELDING

To prevent some portions of rectangular or square dishes from overcooking, you may need to shield them with small strips of aluminum foil to block the microwaves. You can also cover poultry legs and wing tips with foil to keep them from overcooking.

Always keep foil at least 1 inch from oven walls to prevent arcing.

PIERCING

Pierce the shell, skin, or membrane of foods before cooking to prevent them from bursting. Foods that require piercing include yolks and whites of eggs, hot dogs, clams, oysters, and whole vegetables, such as potatoes and squash.

UNDERSTANDING YOUR MICROWAVE OVEN

PRECAUTIONS

- Place the front surface of the door three inches or more from the countertop edge to avoid accidental tipping of the microwave oven during normal use.
- To program the oven, make sure you touch the center of each pad firmly since the areas between the pads will not activate the oven. A tone will sound each time a pad is touched correctly. Do not touch several pads at once.
- Do not strike the control panel with silverware, cookware, etc. Breakage may occur.
- Always use caution when taking cookware out of the oven. Some dishes absorb heat from the cooked food and may be hot. See the "Cookware Guide" earlier in this section for more information.
- Do not rinse cookware immediately after cooking. This may cause breakage. Also, always allow the turntable to cool before removing it from the oven.
- Never operate the oven when it is empty. Food or water should always be in the oven during operation to absorb the microwave energy.
- Do not use the oven to dry newspapers or clothes. They may catch fire.
- Use thermometers that have been approved for microwave oven cooking.
- The turntable must always be in place when you operate the oven.
- Do not use your microwave oven to cook eggs in the shell. Pressure can build up inside the shell, causing it to burst.
- There are several precautions to follow when microwaving popcorn:
 - Do not pop popcorn, except in a microwave-safe container or commercial packages designed for microwave ovens.
 - Never try to pop popcorn in a paper bag that is not microwave-approved.
 - Overcooking may result in smoke and fire.
 - Do not repop unpopped kernels.
 - Do not reuse popcorn bags.
 - Listen while corn pops. Stop oven when popping slows to 2-3 seconds between pops.
 - Do not leave microwave unattended while popping corn.
 - Follow directions on bag.

CLEANING

NOTE: Before cleaning the oven, unplug the power cord. If this is impossible, open the oven door to prevent an accidental oven start.

INTERIOR

Wipe the oven inside and outside with a soft cloth and a mild detergent solution. Then rinse and wipe dry. This should be done weekly or more often, if needed. Never use cleaning powders or rough pads.

Excessive oil splatters on the inside top will be difficult to remove if left for many days. Wipe splatters with a wet paper towel, especially after cooking chicken or bacon.

REMOVABLE PARTS

The turntable and rotating ring are removable. They should be hand-washed in warm (not hot) water with a mild detergent and a soft cloth. Once they are clean, rinse well and dry with a soft cloth. Never use cleaning powders, steel wool, or rough pads.

- The turntable may be cleaned at the sink. Be careful not to chip or scratch the edges as this may cause the turntable to break during use.
- The rotating ring should be cleaned regularly.

DOOR

For best performance and safety, the inner door panel and the oven front frame should be free of food or grease buildup. Wipe often with a mild detergent; then rinse and wipe dry. Never use cleaning powders or rough pads.

After cleaning the control panel, touch CLEAR to clear any entries that might have been entered accidentally while cleaning the panel. Also make sure that the turntable and rotating ring are in the right position.

USING YOUR MICROWAVE OVEN

SETTING TIME OF DAY

When your oven is plugged in for the first time or when power resumes after a power interruption, the numbers in the display reset to '1'.

Example : To set the clock for 10:30.

1.  Touch **STOP/Clear**.
2. **Clock** Touch **Clock**.
3. **1030** Enter the time by using the number key pad.
4.  Touch **Clock**. (or **START**)

NOTE: This is a 12 hour clock. You can switch between AM and PM by touching **Clock**.

EZ-ON

A time-saving pad, this simplified control lets you quickly set and start microwave cooking at 100% power without the need to set the time and press **START**.

Example: To cook for 1 minute.

1.  Touch **STOP/Clear**.
2. **EZ-ON** Twice. The oven begins cooking and display shows time counting down.

NOTE:

If you touch **EZ-ON**, it will add 30 seconds up to 3 minutes 30 seconds; after 3 minutes 30 seconds, every touch will add 1 minute up to 99 min 59 seconds.

KITCHEN TIMER

You can use your microwave oven as a timer. Use the Timer for timing up to 99 minutes, 99 seconds.

Example: To count 3 minutes.

1.  Touch **STOP/Clear**.
2. **Kitchen Timer** Touch **Kitchen Timer**.
3. **3 0 0** Enter the time by using the number key pad.
4.  Touch **START**.
Time counting down
When the time is over, you will hear seven beeps and End will display.

CHILD LOCK

Use this safety feature to lock the control panel when you are cleaning it, or to prevent children from using the oven when you do not want them to.

To set CHILD LOCK.

1.  Touch **STOP/Clear**.
2.  Touch and hold **START** more than 4 seconds. L will appear in the display window with two beeps.

To cancel CHILD LOCK.

1.  Touch and hold **START** more than 4 seconds. L will appear in the display window with two beeps.

USING YOUR MICROWAVE OVEN

TIME COOK

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

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

1.  **STOP**
Clear Touch **STOP/Clear.**
2. **Time Cook** Touch **Time Cook.**
3. **5 3 0** Touch **[5],[3]**and**[0].**
4. **Power Level** Touch **Power Level.**
5. **8** Touch **8.**
6.  Touch **START.**
Time counting down

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

MORE/LESS

By using the More or Less keys, Time Cook program can be adjusted to cook food for a longer or shorter time. Pressing More will add 10 seconds to the cooking time each time you press it. Pressing Less will subtract 10 seconds of cooking time each time you press it.

To adjust the cooking time for a longer time, or for a shorter time.

1.  **STOP**
Clear Touch **STOP/Clear.**
2. **1 0 0** Touch **1, 0, 0.**
3.  Touch **START**
then the oven will start.
4.   Touch **More** or **Less.**
Remaining time will increase or decrease by 10 seconds.

MULTISTAGE COOKING

For best results, some recipes call for different cooking power levels during different stages of a cook cycle. You can program your oven to switch from one power level to another for up to 2 stages.

Example: To set a 2-stage cook cycle.

1.  **STOP**
Clear Touch **STOP/Clear.**
2. **Time Cook** Touch **Time Cook.**
3. **3 0 0** Enter 3 minutes by touching **[3],[0]**and**[0].**
4. **Power Level** Touch **Power Level.**
5. **8** Touch **8** to select power level 80%.
6. **Time Cook** Touch **Time Cook.**
7. **7 0 0** Enter 7 minutes by touching **[7],[0]**and**[0].**
8. **Power Level** Touch **Power Level.**
9. **5** Touch **5** to select power level 50%.
10.  Touch **START.**

When the first stage is over, you will hear two short tones as the oven begins the second cook stage.

USING YOUR MICROWAVE OVEN

MICROWAVE POWER LEVELS

Your microwave oven is equipped with ten power levels to give you maximum flexibility and control over cooking. The table below will give you some idea of which foods are prepared at each of the various power levels.

*The table below shows the power level settings for your oven.

MICROWAVE POWER LEVEL TABLE

Power Level	Use
10 (High)	*Boiling water. *Making candy. *Cooking poultry pieces, fish, & vegetables. *Cooking tender cuts of meat. *Whole poultry.
9	*Reheating rice, pasta, & vegetables.
8	*Reheating prepared foods quickly. *Reheating sandwiches.
7	*Cooking egg, milk and cheese dishes. *Cooking cakes, breads. *Melting chocolate.
6	*Cooking veal. *Cooking whole fish. *Cooking puddings and custard.
5	*Cooking ham, whole poultry, lamb. *Cooking rib roast, sirloin tip.
4	*Thawing meat, poultry and seafood.
3	*Cooking less tender cuts of meat. *Cooking pork chops, roast.
2	*Taking chill out of fruit. *Softening butter.
1	*Keeping casseroles and main dishes warm. *Softening butter and cream cheese.
0	* Standing time. * Independent.

ENERGY SAVING

ENERGY SAVING feature saves energy by turning off the display. This feature only operates when the STOP/Clear (ENERGY SAVING) button is touched and then cancels when the door is opened or any button is touched.



Touch **STOP/Clear**

The display will go out and ENERGY SAVING will be active.

Touch **STOP/Clear** or **any other button** to cancel this feature when it is on.

USING YOUR MICROWAVE OVEN

AUTO COOK

AUTO COOK made easy! You oven's menu has been preprogrammed to automatically cook food. Tell the oven what you want and how many items there are. Then let your microwave oven cook your selections.

Example: To cook 4 slices of bacon

1.  Touch **STOP/Clear**.
2. **Auto Cook** Touch **Auto Cook** once. 'Ac-1' appears in the display.
3. **4** Touch number **4**. '4' appears in the display.
4.  Touch **START**.

AUTO COOK CHART

Code	Category	Direction	Amount
Ac-1	Bacon	Place bacon strips on microwave bacon rack for best results. (Use diner plate lined with paper towels if none available.)	2-6 slices
Ac-2	Frozen Roll/Muffin	Remove from display package and place on plate. (If muffins are over 3 oz. each, count as two when keying quantity.)	1-6 pieces. (2-3 ounces each)
Ac-3	Fresh Roll/Muffin	Remove from display package and place on plate. (If muffins are over 3 oz. each, count as two when keying quantity.)	1-6 pieces. (2-3 ounces each)
Ac-4	Beverage	Remove from display package and place on plate. (Be careful! The beverage will be very hot! Sometimes liquids heated in cylindrical containers will splash out when the cup is moved.)	1-2 cups
Ac-5	Chicken Pieces	Place th chicken pieces in an appropriately sized microwavable container, cover with plastic wrap, and vent.	1½-2.0 lbs
Ac-6	Hot Cereal	Prepare as directed on package and cook. Stir and allow standing time before eating. Use only instant hot cereal.	1-6 servings

USING YOUR MICROWAVE OVEN

SENSOR TOUCH OPERATION INSTRUCTION

Quick Sensor Touch cooking provides exciting new features to make microwave oven easier. Your new microwave oven will guide you, step by step, whether it be simply to reheat food or cook food and sensor menu with all the popular food choices helps you to cook perfectly because it has been pre-programmed and can tell how long to cook or reheat food items.

Categories :

1. Sensor Touch Potato
 2. Sensor Touch Rice
 3. Sensor Touch Popcorn
 4. Sensor Touch Fresh Vegetable
 5. Sensor Touch Frozen Vegetable
 6. Sensor Touch Frozen Entree
1. The Sensor Touch system works by detecting a build-up of vapor.
 2. Make sure the door remains closed.
 3. Opening the door or touching the STOP/CLEAR pad before the vapor is detected will abort the process. The oven will stop.
 4. Before using Sensor Touch , make sure the exterior of the reheating container and the interior of the oven are dry, to assure the best results.

POTATO (EXAMPLE)

SENSOR COOK allows you to cook most of your favorite foods without having to select cooking times and power levels. This oven automatically determines required cooking times for each food item.

Example: To cook potato

1.  **STOP**
Clear Touch **STOP/Clear**

2. **Potato** Touch **Potato**.

The oven will start automatically.

QUICK SENSOR TOUCH TABLE

CATEGORY	DIRECTION	AMOUNT
Potato	Pierce each potato with a fork and place on the oven tray around the edge, at least one inch apart.	1~4 medium approx. 10 oz. each
Rice	Place rice and twice as much liquid (water or chicken or vegetable stock) in a 2-quart microwavable dish. Cover with plastic wrap. When cooking is complete, allow 10 minutes standing time. Stir for fluffier rice.	1/2~2 cups Use medium or long grain rice. Cook instant rice according to directions on the package.
Popcorn	Place only bag of prepackaged microwave popcorn on the center of turntable.	Regular size Use one fresh bag of popcorn 3.0-3.5 oz.
Fresh Vegetable	Prepare as desired, wash, and leave residual water on the vegetables. Place in an appropriately-sized microwave container, cover with plastic wrap and vent.	1~4 cups
Frozen Vegetable	Remove from package, rinse off frost under running water. Place in an appropriately-sized microwave container, cover with plastic wrap and vent.	1~4 cups
Frozen Entree	Remove from outer display package. Slit cover. If not in microwave-safe container, place on plate, cover with plastic wrap, and vent.	10.5~21 oz.

NOTE: If you open the door or press STOP/Clear during sensing, the process will be canceled.

USING YOUR MICROWAVE OVEN

AUTO DEFROST

Three defrost sequences are preset in the oven. The defrost feature provides you with the best defrosting method for frozen foods. The auto defrost guide will show you which defrost sequence is recommended for the food you are defrosting.

For added convenience, the Auto Defrost includes a built-in beep mechanism that reminds you to check, turn over, separate, or rearrange to get the best defrost results. Three different defrosting levels are provided.

dEF1. MEAT

dEF2. POULTRY

dEF3. FISH

Example: To defrost 1.2 lbs. of ground beef.

1.  **STOP**
Clear Touch **STOP/Clear.**
2. **Auto Defrost** Touch **Auto Defrost** once.
MEAT TOUCH ONCE
POULTRY TOUCH TWICE
FISH TOUCH TRIPLE
3. **1 and 2** Touch number **1 and 2**
4.  **START**
Enter  Touch **START.**
Time counting down

NOTE:

When you touch the START pad, the display changes to defrost time countdown. The oven will beep during the DEFROST cycle. At this time, open the door and turn, separate, or rearrange the food. Remove any portions that have thawed. Return frozen portions to the oven and touch START to resume the defrost cycle. **The oven will not stop during the BEEP unless the door is opened.**

OPERATING TIPS

- 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.
- For best results, shape your ground meat into the form of a doughnut before freezing. When defrosting, scrape off thawed meat when the beep sounds and continue defrosting.
- Place foods in a shallow container or on a microwave roasting rack to catch drippings.
- Food should still be somewhat icy in the center when removed from the oven.

AUTO DEFROST SEQUENCE LIST

Sequence	Food	Min./Max.
MEAT (dEF1)	BEEF Ground beef, Round steak, Cubes for stew, Tenderloin steak, Pot roast, Rib roast, Rump roast, Chuck roast, Hamburger patty. LAMB Chops (1 inch thick), Rolled roast PORK Chops (1/2 inch thick), Hot dogs, Spareribs, Country-style ribs. Rolled roast, Sausage. VEAL Cutlets (1 lbs, 1/2 inch thick)	0.1~6.0lbs
POULTRY (dEF2)	POULTRY Whole (under 4 lbs.), Cut-up, Breasts (boneless) CORNISH HENS Whole TURKEY Breast (under 6 lbs.)	0.1~6.0lbs
FISH (dEF3)	STEAKS/CHOPS Round beef steak, Tenderloin steak Lamb chops (1 inch thick) Pork chops (1/2 inch thick) Veal cutlets (1 lbs, 1/2 inch thick) FISH Fillets, Whole Steaks SHELLFISH Crab meat, Lobster tails, Shrimp, Scallops	0.1~6.0lbs

QUICK DEFROST

This feature should be used only when you defrost 1.0 lbs. of frozen ground meat, fish and poultry.

1.  **STOP**
Clear Touch **STOP/Clear.**
2. **Quick Defrost** Touch **Quick Defrost.**
Time counting down

NOTES: When the oven sounds a tone during time counting down, open the door and turn, separate, or rearrange food.

USING YOUR MICROWAVE OVEN

AUTO DEFROST TABLE

Meat setting

FOOD	SETTING	AT BEEP	SPECIAL INSTRUCTIONS
BEEF			Meat of irregular shape and large, fatty cuts of meat should have the narrow or fatty areas shielded with foil at the beginning of a defrost sequence.
Ground Beef, Bulk	MEAT	Remove thawed portions with fork. Turn over. Return remainder to oven.	Do not defrost less than 1/4 lb. Freeze in doughnut shape.
Ground Beef, Patties	MEAT	Separate and rearrange.	Do not defrost less than 2 oz. patties. Depress center when freezing.
Round Steak	MEAT	Turn over. Cover warm areas with aluminum foil.	Place on a microwavable roasting rack.
Tenderloin Steak	MEAT	Turn over. Cover warm areas with aluminum foil.	Place on a microwavable roasting rack.
Stew Beef	MEAT	Remove thawed portions with fork. Separate remainder. Return remainder to oven.	Place in a microwavable baking dish.
Pot Roast, Chuck Roast	MEAT	Turn over. Cover warm areas with aluminum foil.	Place on a microwavable roasting rack.
Rib Roast	MEAT	Turn over. Cover warm areas with aluminum foil.	Place on a microwavable roasting rack.
Rolled Rump Roast	MEAT	Turn over. Cover warm areas with aluminum foil.	Place on a microwavable roasting rack.
LAMB			
Cubes for Stew	MEAT	Remove thawed portions with fork. Return remainder to oven.	Place in a microwavable baking dish.
Chops (1 inch thick)	MEAT	Separate and rearrange.	Place on a microwavable roasting rack.
PORK			
Chops (1/2 inch thick)	MEAT	Separate and rearrange.	Place on a microwavable roasting rack.
Hot Dogs	MEAT	Separate and rearrange.	Place on a microwavable roasting rack.
Spareribs Country-style Ribs	MEAT	Turn over. Cover warm areas with aluminum foil.	Place on a microwavable roasting rack.
Sausage, Links	MEAT	Separate and rearrange.	Place on a microwavable roasting rack.
Sausage, Bulk	MEAT	Remove thawed portions with fork. Turn over. Return remainder to oven.	Place in a microwavable baking dish.
Loin Roast, Boneless	MEAT	Turn over. Cover warm areas with aluminum foil.	Place on a microwavable roasting rack.

USING YOUR MICROWAVE OVEN

AUTO DEFROST TABLE (CONT.)

Poultry setting

FOOD	SETTING	AT BEEP	SPECIAL INSTRUCTIONS
CHICKEN Whole	POULTRY	Turn over (finish defrosting breast-side down). Cover warm areas with aluminum foil.	Place chicken breast-side up on a microwavable roasting rack. Finish defrosting by immersing in cold water. Remove giblets when chicken is partially defrosted.
Cut-up		Separate pieces and rearrange. Turn over. Cover warm areas with aluminum foil.	Place on a microwavable roasting rack. Finish defrosting by immersing in cold water.
CORNISH HENS Whole	POULTRY	Turn over. Cover warm areas with aluminum foil.	Place on a microwavable roasting rack. Finish defrosting by immersing in cold water.
TURKEY Breast	POULTRY	Turn over. Cover warm areas with aluminum foil.	Place on a microwavable roasting rack. Finish defrosting by immersing in cold water.

Fish setting

FOOD	SETTING	AT BEEP	SPECIAL INSTRUCTIONS
FISH Fillets	FISH	Turn over. Separate fillets when partially thawed if possible.	Place in a microwavable baking dish. Carefully separate fillets under cold water.
Steaks	FISH	Separate and rearrange.	Place in a microwavable baking dish. Run cold water over to finish defrosting.
Whole	FISH	Turn over.	Place in a microwavable baking dish. Cover head and tail with foil; do not let foil touch sides of microwave. Finish defrosting by immersing in cold water.
SHELLFISH Crabmeat	FISH	Break apart. Turn over.	Place in a microwavable baking dish.
Lobster tails	FISH	Turn over and rearrange.	Place in a microwavable baking dish.
Shrimp	FISH	Separate and rearrange.	Place in a microwavable baking dish.
Scallops	FISH	Separate and rearrange.	Place in a microwavable baking dish.

USING YOUR MICROWAVE OVEN

SOFTEN

The oven uses low power to soften foods (butter, ice cream, cream cheese, and frozen juice) See the following table.

Example: To Soften Quart Ice Cream.

1.  **STOP** **Clear** Touch **STOP/Clear**.
2. **Soften** Touch **Soften** twice .
3. **2** Touch **2**.
4.  Touch **START**.

MELT

The oven uses low power to melt foods (butter, margarine, chocolate, cheese and marshmallows). See the following table.

Example: To Melt 8 oz. Chocolate.

1.  **STOP** **Clear** Touch **STOP/Clear**.
2. **Melt** Touch **Melt** twice.
3. **2** Touch **2**.
4.  Touch **START**.

SOFTEN TABLE

Code	Category	Direction	Amount
1	Butter	Unwrap and place in microwavable container. No need to cover butter. Butter will be at room temperature and ready for use in recipe.	1stick (1) 2sticks (2) 3sticks (3)
2	Ice Cream	Place container in oven. Ice cream will be soft enough to make scooping easier.	Pint(1) Quart(2) Half gallon(3)
3	Cream Cheese	Unwrap and place in microwavable container. Cream cheese will be at room temperature and ready for use in recipe.	3oz. (1) 8oz. (2)
4	Frozen Juice	Remove top. Place in oven. Frozen juice will be soft enough to easily mix with water.	6oz. (1) 12oz.(2) 16oz.(3)

MELT TABLE

Code	Category	Direction	Amount
1	Butter/ Margarine	Unwrap and place in microwavable container. No need to cover butter. Stir at the end of cooking to complete melting.	1stick (1) 2sticks(2) 3sticks (3)
2	Chocolate	Choose the 4 or 8 oz.(actual weight) selection to melt squares of baking chocolate. Unwrap squares and place them in a microwavable container. Stir at the end of cycle to complete melting. If using chocolate morsels always use the 4 oz. setting. Stir at the end of the cycle to complete melting. Add time as necessary if more than 4 oz. dry measure is being melted.	4oz. (1) 8oz. (2)
3	Cheese	Use processed cheese food only. Cut into cubes. Place in a single layer in microwavable container. Stir at the end of cooking to complete melting.	8oz. (1) 16oz. (2)
4	Marshmallows	Large or miniature marshmallows may be used. Place in microwavable container. Stir at the end of cycle to complete melting.	5oz. (1) 10oz. (2)

TROUBLESHOOTING

Questions and Answers

Operation

Question	Answer
Why is the oven light not on during cooking?	There may be several reasons why the oven light is not on. Have you: • Set a cook time? • Touched START?
Why does steam come out of the air exhaust vent?	Steam is normally produced during cooking. The microwave oven has been designed to vent this steam.
Will the microwave oven be damaged if it operates empty?	Yes. Never operate the oven empty or without the glass turntable.
Does microwave energy pass through the viewing screen in the door?	No. The metal screen bounces the energy back to the oven cavity. The holes (or ports) allow only light to pass through. They do not let microwave energy pass through.
Why does a tone sound when a pad on the control panel is touched?	The tone tells you that the setting has been entered.
Can my microwave oven be damaged if food is cooked for too long?	Like any other cooking appliance, it is possible to overcook food to the point that the food creates smoke and even possibly fire and damage to the inside of the oven. It is always best to be near the oven while you are cooking.
When the oven is plugged into wall outlet for the first time, it might not work properly. What is wrong?	The microcomputer controlling your oven may temporarily become scrambled and fail to function as programmed when you plug in for the first time or when power resumes after a power interruption. Unplug the oven from the 120-volt household outlet and then plug it back in to reset the microcomputer.
Why do I see light reflection around the outer case?	This light is from the oven light which is located between the oven cavity and the outer wall of the oven.
What are the various sounds I hear when the microwave oven is operating?	The clicking sound is caused by a mechanical switch turning the microwave oven's magnetron ON and OFF. The heavy hum and clunk is from the change in power the magnetron draws as it is turned ON and OFF by a mechanical switch. The change in blower speed is from the change in line voltage caused by the magnetron being turned ON and OFF.

Food

Question	Answer
What is wrong when baked foods have a hard, dry, brown spot?	A hard, dry, brown spot indicates overcooking. Shorten the cooking or reheating time.
Why do eggs sometimes pop?	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. CAUTION: Never microwave eggs in the shell.

TROUBLESHOOTING

Questions and Answers (continued)

Food

Question	Answer
Why are scrambled eggs sometimes a little dry after cooking?	Eggs will dry out when they are overcooked, even if the same recipe is used each time. The cooking time may need to be varied for one of these reasons: • Eggs vary in size. • Eggs are at room temperature one time and at refrigerator temperature another time. • Eggs continue cooking during standing time.
Is it possible to pop popcorn in a microwave oven?	Yes, if using one of the two methods described below: (1) microwave-popping devices designed specifically for microwave cooking (2) prepackaged commercial microwave popcorn that is made for specific times and power output needed Follow exact directions given by each manufacturer for its popcorn popping product and do not leave the oven unattended while the corn is being popped. If corn fails to pop after the suggested time, discontinue cooking. Overcooking could result in an oven fire. CAUTION: • Never use a brown paper bag for popping corn or attempt to pop leftover kernels. • Do not pop prepackaged commercial microwave popcorn directly on the glass turntable. To avoid excessive heating of the glass turntable, place the popcorn bag on a plate. • Listen while corn pops. Stop oven when popping slows to 2-3 seconds between pops. • Do not leave microwave unattended while popping corn. • Follow directions on bag.
Why do baked apples sometimes burst during cooking?	The peel has not been removed from the top half of each apple to allow for expansion of the interior of the apple during cooking. As in conventional cooking methods, the interior of the apple expands during the cooking process.
Why do baked potatoes sometimes burn during cooking?	If the cooking time is too long, fire could result. At the end of the recommended cooking time, potatoes should be slightly firm. CAUTION: Do not overcook.
Why is a standing time recommended after microwave cooking time is over?	Standing time allows foods to continue cooking evenly for a few minutes after the actual microwave oven cooking cycle. The amount of standing time depends upon the density of the foods.
Why is additional time required for cooking food stored in the refrigerator?	As in conventional cooking, the initial temperature of food affects total cooking time. You need more time to cook food taken out of a refrigerator than for food at room temperature.

TROUBLESHOOTING

Before Calling for Service

You can often correct operating problems yourself. If your microwave oven fails to work properly, locate the operating problem in the list below and try the solutions listed for each problem.

If the microwave oven still does not work properly, contact the nearest LG Authorized Service Center.

LG Authorized Service Centers are fully equipped to handle your service requirements.

Problem	Possible Causes
Oven does not start	• Is the power cord plugged in? • Is the door closed? • Is the cooking time set?
Arcing or Sparking	• Are you using approved cookware? • Is the oven empty?
Incorrect time of day	• Have you tried to reset the time of day?
Unevenly Cooked Foods	• Are you using approved cookware? • Is the glass turntable in the oven? • Did you turn or stir the food while it was cooking? • Were the foods completely defrosted? • Was the time/cooking power level correct?
Overcooked Foods	• Was the time/cooking power level correct?
Undercooked Foods	• Are you using approved cookware? • Were the foods completely defrosted? • Was the time/cooking power level correct? • Are the ventilation ports clear?
Improper Defrosting	• Are you using approved cookware? • Was the time/cooking power level correct? • Did you turn or stir the food during the defrosting cycle?

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

⚠ WARNING:

This equipment generates and uses ISM frequency energy and if not installed and used properly, that is in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with limits for ISM Equipment pursuant to part 18 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following:

- Reorient the receiving antenna of the radio or television.
- Relocate the microwave oven with respect to the receiver.
- Move the microwave oven away from the receiver.
- Plug the microwave oven into a different outlet so that the microwave oven and the receiver are on different branch circuits.

The manufacturer is not responsible for any radio or TV interference caused by **unauthorized modification** to this microwave oven. It is the responsibility of the user to correct such interference.

⚠ WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. ***Wash hands after handling.***



LG MICROWAVE OVEN LIMITED WARRANTY — USA

Model LCS1413**/ LCRT1513**

LG Electronics, Inc. will repair or replace your product, at LG's option, if it proves to be defective in material or workmanship under normal use, during the warranty period set forth below, effective from the date of original consumer purchase of the product. This warranty is good only to the original purchaser of the product and effective only when used in the United States, including U.S. Territories.

<u>WARRANTY PERIOD:</u> LABOR: One Year from the Date of Purchase*. PARTS (except as listed below): One Year from the Date of Purchase*. MAGNETRON: Ten Years from the Date of Purchase*. Replacement Units and Repair Parts are warranted for the remaining portion of the original unit's warranty period. * Retain your Sales Receipt to prove the date of purchase. A copy of your Sales Receipt must be submitted at the time warranty service is provided.	<u>HOW SERVICE IS HANDLED:</u> <u>Product Replacement</u> Please call 1-800-243-0000 and choose the Customer Service/Appliance options. (Phones are answered 24 hours a day, 365 days per year.) You will receive a certificate to purchase a replacement product from your local dealer. You will then send the purchase receipts for the original and the replacement microwave ovens, along with the purchase authorization certificate to us. We will send you a refund check for the purchase price of the original product. This gives you the opportunity to upgrade to another model or to receive the full purchase price of the original model even if you decide to purchase a less expensive model. Please visit our website at: www.lg.com
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THIS LIMITED WARRANTY DOES NOT APPLY TO:

- Service trips to your home to deliver, pick up, and/or install the product, instruct, or replace house fuses or correct wiring, or correction of unauthorized repairs.
- Damages or operating problems that result from misuse, abuse, operation outside environmental specifications or contrary to the requirements of precautions in the Operating Guide, accident, vermin, fire, flood, improper installation, acts of God, unauthorized modification or alteration, incorrect electrical current or voltage, or commercial use, or use for other than intended purpose.

The cost of repair or replacement under these excluded circumstances shall be borne by the consumer.

CUSTOMER INTERACTIVE CENTER NUMBERS

To obtain Customer Assistance, Product Information, or Dealer or Authorized Service Center location:	Call 1-800-243-0000 (24 hours a day, 365 days per year) and select the appropriate option from the menu. Or visit our website at: www.lg.com
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LG Customer Interactive Center
P. O. Box 240007
201 James Record Road
Huntsville, Alabama 35824
ATTN: CIC

