

Amana[®]

Microwave Oven Owner's Manual & Cooking Guide

M1031E

M1031W

F1331E

F1331W

Attention:

Keep these instructions for future reference.
If microwave oven changes ownership, be sure
this manual accompanies microwave oven.

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Technical Specifications

MODEL	M1031E/W	F1331E/W
Power Supply	120V AC, 60Hz	120V AC, 60 Hz
Rated Power Consumption	1500 W	1500 W
Microwave Output	*1100 W	*1100 W
Frequency	2450 MHz	2450 MHz
Rated Current	13.3 A	13.3 A
Overall Dimensions(WxHxD)	20 ⁷ / ₈ " x 12 ³ / ₈ " x 15 ¹ / ₂ "	21 ⁷ / ₈ " x 12 ⁵ / ₈ " x 16 ³ / ₄ "
Oven Cavity Dimensions(WxHxD)	13 ³ / ₄ " x 9" x 14 ¹ / ₂ "	14 ³ / ₄ " x 9" x 16"
Effective Capacity of Oven Cavity	1.0 Cu.ft.	1.3 Cu.ft.

*IEC 705 RATING STANDARD

Specifications subject to change without prior notice.

Important Safety Instructions

PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- (a) Do not attempt to operate this oven with the door open since open-door operation can result in harmful exposure to microwave energy. It is important not to defeat or tamper with the safety interlocks.
- (b) Do not place any object between the oven front face and the door or allow soil or cleaner residue to accumulate on sealing surfaces.
- (c) Do not operate the oven if it is damaged. It is particularly important that the oven door 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.
- (d) The oven should not be adjusted or repaired by anyone except properly qualified service personnel.

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.
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 5 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 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, 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 the edge of a table or counter.
15. When cleaning surfaces of door and oven that come together when closing the door, use only mild, non abrasive 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 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 injury.
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

Installation

GROUNDING INSTRUCTIONS

WARNING

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

Extension cord:

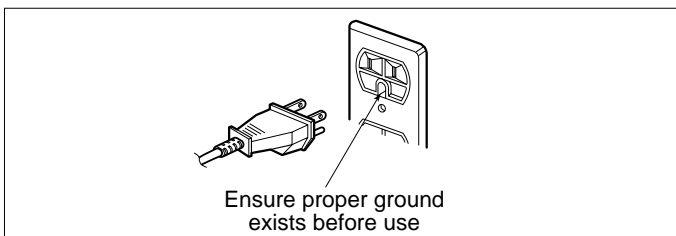
If it is necessary to use an extension cord, use only a 3-wire extension cord that has a 3-blade grounding plug, and a 3-slot receptacle that will accept the plug on the appliance. The marked rating of the extension cord shall be equal to or greater than the electrical rating of the appliance.

Longer cord sets or extension cords are available and may be used if care is exercised in their use.

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

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.

A short power-supply cord is provided to reduce the risks resulting from becoming entangled in or tripping over a long cord.



CIRCUITS

For safety purposes this oven must be plugged into a 15 or 20 Amp circuit. No other electrical appliances or lighting circuits should be on this line. If in doubt, consult a licensed electrician.

VOLTAGE

The voltage used at the wall receptacle must be the same as specified on the oven name plate located inside oven door. 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.

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.

PRECAUTIONS

- *Be certain to place the front surface of the door three inches away or more from the countertop edge to avoid accidental tipping of the appliance in normal usage.
- *For the most accurate programming of the electronic units, touch the center of each pad securely. Do not touch several pads at one time or touch between pads. A beep sound should be heard with each touch when a pad is touched correctly.
- *Do not hit or strike the control with objects such as silverware, utensils, etc. Breakage may occur.
- *Be careful when taking the cooking utensils out of the oven. Some dishes absorb heat from the cooked food and may be hot.
- *Do not rinse cooking utensils by immediately placing them into water just after cooking. This may cause breakage. Allow the turntable to cool.
- *Use only specific glass utensils. See cooking utensils section in this manual.
- *Do not operate the oven empty. Either food or water should always be in the oven during operation to absorb microwave energy.
- *Do not use your microwave oven to dry newspapers or clothes. They can catch fire.
- *Use only thermometers approved for microwave oven cooking.
- *Be certain the turntable is in place when you operate the oven.
- *Pierce the skin of potatoes, whole squash, apples, or any fruit or vegetable which has a skin covering before cooking.
- *Never use your microwave oven to cook eggs in the shell. Pressure can build up inside the shell, causing it to burst.
- *Do not pop popcorn, except in a microwave-safe container or commercial package designed especially for microwave ovens. Never try to pop popcorn in a paper bag not designed for microwave oven use. Overcooking may result in smoke and fire. Do not repop unpopped kernels. Do not reuse popcorn bags.

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.

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 television.
 - 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.

Other Helpful Information

MODEL IDENTIFICATION

Complete enclosed registration card and promptly return. If registration card is missing, call Consumer Affairs Department at 1-800-843-0304 inside U.S.A. 319-622-5511 outside U.S.A. When contacting Amana, provide product information located on rating plate.

Record the following:

Model Number: _____

Manufacturing Number: _____

Serial or S/N Number: _____

Date of purchase: _____

Dealer's name and address: _____

PARTS AND ACCESSORIES

Purchase replacement parts and additional accessories (e.g., refrigerator shelves, dryer racks, or cooktop modules) over the phone.

To order accessories for your Amana product, call 1-800-843-0304 inside U.S.A. or 319-622-5511 outside U.S.A.

SERVICE

Keep a copy of sales receipt for future reference or in case warranty service is required. Any questions or to locate an authorized servicer, call 1-800-NAT-LSVC (1-800-628-5782) inside U.S.A. 319-622-5511 outside U.S.A.

Warranty service must be performed by an authorized servicer. Amana, also recommends contacting an authorized servicer if service is required after warranty expires.

Asure™ EXTENDED SERVICE PLAN

Amana offers long-term service protection for this new oven.

Asure™ Extended Service Plan is specially designed to supplement Amana's strong warranty.

This plan covers parts, labor, and travel charges.

Call 1-800-528-2682 for information.

Other Helpful Information

GETTING THE BEST RESULTS FROM YOUR MICROWAVE OVEN

Keep an eye on things. The instructions in this book have been formulated with great care, but your success in preparing food 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. 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 may always be cooked a bit more, overcooked food is ruined for good. Some of the recipes, particularly those for bread, cakes, and custard, 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.

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 color. The most commonly used browning sauces are Worcestershire sauce, soy sauce, and barbecue sauce. Since relatively small amounts of browning sauces are added to foods, the original flavor of recipes is not altered.

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

Covering with waxed paper: Waxed paper effectively prevents spattering and helps food retain some heat. Since it makes a looser cover than a lid or cling-film, it allows the food to dry out slightly.

Wrapping in waxed paper 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 and 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 center as the outside 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 near the edge: 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.

Elevating: Thick or dense foods are often elevated so that microwaves can be absorbed by the underside and center 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 flavors to blend and develop.

Other Helpful Information

HOW FOOD CHARACTERISTICS AFFECT MICROWAVE COOKING

Density of foods: Light, porous food like 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 retain 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.

NOTE: It is a common misconception that micro-waves cook food from the inside out. This comes from heating filled pastries with a high sugar content, like jelly doughnuts. The pastry is cool but the filling is very hot! If you cook a chicken or a roast, you'll see the outside is cooked first.

Shape of foods: Microwaves penetrate only about 1 inch (2.5cm) into foods; the interior portion of thick foods is cooked as the heat generated on the outside travels inward. In other words, only the outer edge of any food 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 cube. The corners will burn long before the center is even warm. Round, thin, and ring shaped foods cook most successfully in the microwave.

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 halving a recipe.

Cooking Utensils

MICROWAVE-SAFE UTENSILS



SOME ITEMS ARE NOT INTENDED FOR MICROWAVE COOKING, INCLUDING SOME STONWARE AND ITEMS WITH HIGH IRON OR LEAD CONTENTS.

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 is 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 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, above.

2. Glassware: Glassware that is heat-resistant is microwave-safe. This includes all brands of oven-tempered glass cookware. However, do not use delicate glassware, such as tumblers 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 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 colored paper products as the color may run.

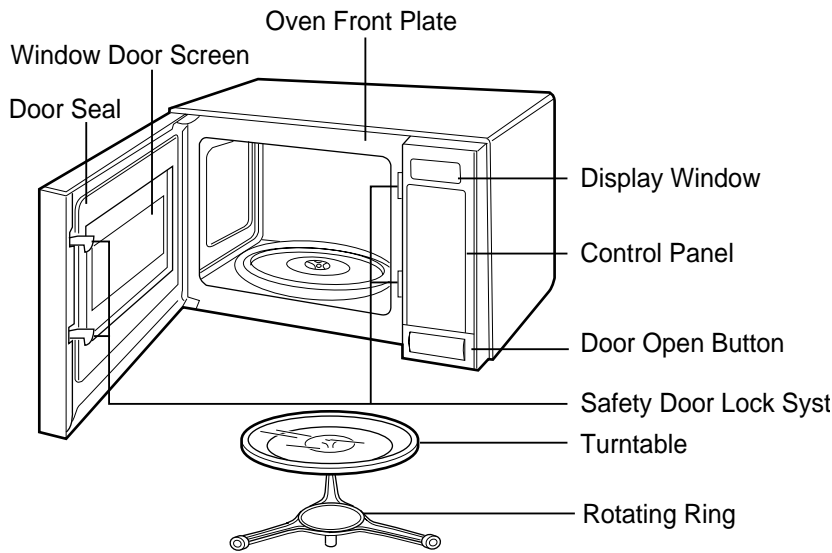
4. Plastic storage containers: These can be used to hold foods that are to be quickly reheated. However, they should not be used to hold foods that will need considerable time in the oven as hot foods will eventually warp or melt plastic containers.

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 cook with 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.

Feature Diagram

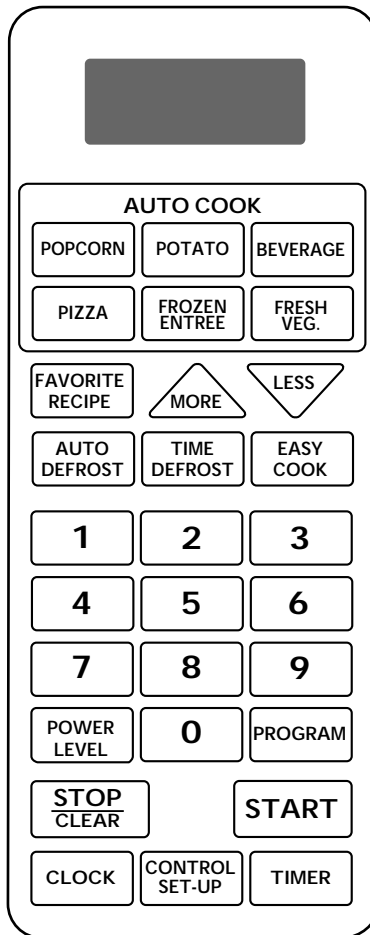


Your oven will be packed with the following materials:

- Glass Turntable 1 each
- Owner's Manual & Cooking Guide..... 1 each
- Rotating Ring..... 1 each

This microwave oven is designed for household use only. It is not recommended for commercial purposes and will void the warranty.

Control Panel



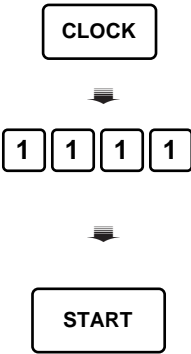
NOTE: A beep sounds when a pad on the control panel is touched, to indicate setting has been entered.

Operating Instructions

SETTING CLOCK

When your oven is plugged in for the first time or when power resumes after a power interruption, the words **PLEASE ENTER TIME OF DAY** in the display scrolls five times.

Example: To set 11:11 am or pm.



1. Touch **CLOCK** pad once for **AM** or twice for **PM**.
Display scrolls the words **AM (or PM) ENTER TIME OF DAY**.

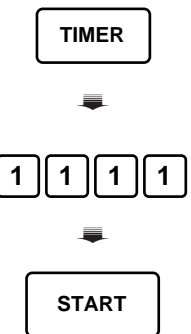
2. Enter the time by using the number pads.
Touch **[1]** pad 4 times.
Display scrolls the words **11:11 AM (or PM) PRESS START**.

3. Touch **START** pad .
(Start Clock)

TIMER

The timer feature allows the display to count down without the oven heating.

Example: To set the timer to 11 minutes and 11 seconds.



1. Touch **TIMER** pad.
Display scrolls the words **ENTER TIME**.

2. Touch **[1]** pad 4 times.
Display scrolls the words **11:11 PRESS START**.

3. Touch **START** pad.
(Start count down)


EASY COOK

Lets you quickly set and start microwave cooking without the need to touch **START**.

NOTE:

If you touch **EASY COOK** 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.

Example: To set EASY COOK pad for 2 minutes.



Touch **EASY COOK** pad 4 times.
The oven begins cooking and display shows time counting down.

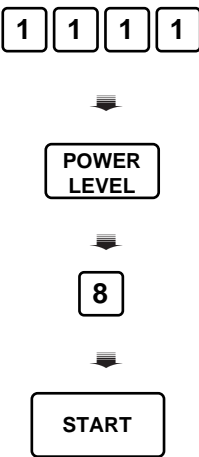
TIME COOK

This feature allows you to heat for a desired amount of time at a desired power level.
Use the eleven power levels to heat food slowly and evenly.

NOTE :

If you do not select the power level, the oven will operate at power HIGH. To set HI-POWER cooking, skip steps 2 & 3.

Example: To cook food on 80% Power (power8) for 11 minutes 11 seconds



1. Enter 11 minutes 11 seconds by touching **[1]** pad 4 times.
Display scrolls the words **11:11 PRESS START OR POWER**.

2. Touch **POWER LEVEL** pad.
Display scrolls the words **ENTER POWER LEVEL 0 TO 10**.

3. Touch **[8]** pad.
To select power level 80%.
Display scrolls the words **P-80 PRESS START**.

4. Touch **START** pad.

When cooking is complete, two short tones and one long tone will sound. The word **END** shows in the display window. Then, the oven shuts itself off.

Operating Instructions

MULTI-STAGE TIME COOK

Stages are consecutive heating cycles performed without interruption. This oven can perform 2 stages in a row.

For Multi-Stage cooking, touch PROGRAM and repeat Time Cook steps 1-3 on previous page before touching the START pad for additional Time and Power program you want to add.

Auto Defrost can be programmed before the first stage to defrost first and then cook.

MICROWAVE POWER LEVELS

Your microwave oven has eleven 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.

MICROWAVE POWER LEVEL CHART

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.

CHILD LOCK

This safety feature that prevents unwanted oven operation. Once the child lock is set, no cooking can take place. The Child Lock feature is also useful when cleaning the control panel. Child Lock prevents accidental programming when wiping the control panel.

If the CHILD LOCK is set and you touch another cooking pad, the word **LOCKED** shows in the display. Cancel the child lock according to the procedure below.

To set the child lock

STOP
CLEAR

1. Touch **STOP / CLEAR** pad.

0

2. Touch and hold **0** pad until the word **LOCKED** appears in the display and two beeps are heard.

To cancel the child lock

0

Touch and hold **0** pad until the word **LOCKED** disappears in the display.

After the CHILD LOCK is turned off, the time of day will return to the display window. The oven will operate normally.

Operating Instructions

AUTO COOK


Your oven's menu has been preprogrammed to cook food automatically.
Tell the oven what you want. Then let your microwave oven cook your selections.

Example: To cook popcorn (3.0 oz), simply follow the step below

*Place popcorn in the oven and close the door.

POPCORN

1. Touch **POPCORN** pad.
Display scrolls the words
1.75 OZ PRESS 1
3.0 OZ PRESS 2
3.5 OZ PRESS 3.

 2. Touch **2** pad.
Display shows **3.0 OZ.**
The oven begins the cooking you selected without the need to touch **START**. Be sure to close the door before selecting categories.

AUTO COOK CHART

Pad	Touch keypad	Serving size	Directions	Cover
POPCORN	1 Pad 2 Pad 3 Pad	1.75 oz. 3.0 oz. 3.5 oz.	* Follow package instructions. * Use popcorn package which is made especially for microwave cooking. * Do not try to pop unpopped kernels. * Heat only 1 package at a time. * Do not leave the microwave oven unattended while popping popcorn.	None
POTATO	1 Pad 2 Pad 3 Pad 4 Pad	1 (8 oz.) 2 (16 oz.) 3 (24 oz.) 4 (32 oz.)	* Place in center of the oven on paper towel. * Pierce potato several times with fork. * After cooking, let stand for 5 minutes. * No cover.	None
BEVERAGE	1 Pad 2 Pad	1 cup (8 oz.) 2 cups (16 oz.)	* Use mug or microwave-safe cup. * Stir after reheating.	None
PIZZA	1 Pad 2 Pad 3 Pad	1 slice (5 oz.) 2 slices (10 oz.) 3 slices (15 oz.)	* Place the refrigerated pizza on the plate in the center of the microwave oven.	None
FROZEN ENTREE	1 Time	10 oz.	* Follow the package instructions. * Example of one frozen entree is Lasagna with meat sauce, Chicken with Rice, and Sliced Turkey Breast with Rice and vegetable.	None
FRESH VEGETABLE	1 Pad 2 Pad 3 Pad 4 Pad	1 cup (8 oz.) 2 cups (16 oz.) 3 cups (24 oz.) 4 cups (32 oz.)	* Prepare vegetable (wash, cut-up vegetable into 1/2-inch slices or pieces). * Most vegetables need 2 minutes or 3 minutes standing time after cooking. 1 cup - Add 2 tablespoon water 2 cups - Add 2 tablespoon water 3 cups - Add 4 tablespoon water 4 cups - Add 4 tablespoon water	Plastic wrap

Operating Instructions

CONTROL SET-UP

CONTROL SET-UP provides six modes which make using your microwave oven quite handy. You can select **SOUND ON/OFF, CLOCK ON/OFF, SCROLL SPEED, LBS/KG, LANGUAGE, and DEMO MODE.**

Example 1: To turn off Sound of beeper.

CONTROL SET-UP

1. Touch **CONTROL SET-UP** pad.
Six modes show in the display repeatedly. You can set them according to your intention.

➡

1

2. Touch **1** pad.
Display scrolls the words **SOUND ON PRESS 1 OFF PRESS 2.**

➡

2

3. Touch **2** pad.
Display scrolls the words **SOUND OFF.**
The current time will be displayed.

NOTE:
To turn sound back on, repeat steps 1-2. Then touch number 1.

Example 2: To select French.

CONTROL SET-UP

1. Touch **CONTROL SET-UP** pad.
Six modes show in the display continuously. You can set them according to your intention.

➡

5

2. Touch **5** pad.
Display scrolls the words **ENGLISH PRESS 1 ESPANOL PRESSIONE 2 FRANC PRESSER 3.**

➡

3

3. Touch **3** pad.
Display scrolls the words **FRANC.**
The current time will be displayed.

NOTE:
1. To select ENGLISH or SPANISH, repeat steps 1-3.
2. Once set, the window will display in the language chosen.

CONTROL SET-UP FUNCTION CHART

NO	FUNCTION	CHOICE	REMARKS
1	SOUND ON / OFF	Sound On or Sound Off	All of the key sound and EOC sound on or off.
2	CLOCK ON / OFF	Clock On or Clock Off	When clock is off nothing displays when oven is not in use.
3	SCROLL SPEED	Slow, Normal, or Fast	Scroll speed control speed of message that scroll across display.
4	LBS / KG	Lbs or Kg	Set control to LBS or KG for Auto Cook and Auto defrost features.
5	LANGUAGE	English, Spanish, or French	Set the control to desired language.
6	DEMO ON / OFF	Demo On or Demo Off	Demo mode allows oven to operate without oven heating.

NOTE: When the power cord is first plugged in, the default setting are Sound ON, Clock ON, Normal Speed, LBS, English, and DEMO OFF.

Operating Instructions

FAVORITE RECIPE

This feature allows you to set and execute a frequently used single stage program. Once the cooking program is set, you can use it by pressing the **FAVORITE RECIPE**.

NOTE:

- * If you do not select the power level, the oven will operate at power HIGH. To set HI-POWER cooking, skip steps 3 & 4.
- * The FAVORITE RECIPE will retain its program until you reset it.

Example: To set cooking program, 11 minutes 11 seconds at power level 80%.

1. Touch **FAVORITE RECIPE** pad.
Display scrolls the words **1:00 PRESS START OR ENTER NEW TIME.**

2. Enter 11 minutes and 11 seconds.
Display scrolls the words **11:11 PRESS START OR POWER.**

3. Touch **POWER LEVEL** pad.
Display scrolls the words **ENTER POWER LEVEL 0 TO 10.**

4. Touch **8** pad.
Display scrolls the words **P-80 PRESS START.**

5. Touch **START** pad.

MORE/LESS

By using the MORE or LESS pad, all of the **AUTO COOK, TIME COOK, EASY COOK and FAVORITE RECIPE** programs 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.

Example: To adjust the one touch cook (popcorn) cooking time for a longer time

1. Touch **POPCORN** pad.
Display scrolls the words **1.75 OZ PRESS 1 3.0 OZ PRESS 2 3.5 OZ PRESS 3.**

2. Touch **1** pad.

3. Touch **MORE** pad.

NOTE:
Press the MORE or LESS pad during time countdown.

TIME DEFROST

This feature allows you to choose the time you want to defrost.

Example: To defrost for 2 minutes.

1. Touch **TIME DEFROST** pad.
Display scrolls the words **ENTER DEFROST TIME.**

2. Touch **[2], [0], and [0]** pad.
Display scrolls the words **2:00 PRESS START.**

3. Touch **START** pad.
(Defrosting START)

Operating Instructions

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 sequence list will show you which defrost sequence is recommended for the food you are defrosting.

With the Auto Defrost feature, the oven automatically sets the defrosting time and power levels for you.

The oven automatically determines required defrosting times for each food item according to the weight you enter.

For added convenience, the Auto Defrost includes a built-in beep mechanism that reminds you to check, turn over, separate, or rearrange.

Three different defrosting levels are provided.

- 1 MEAT**
- 2 POULTRY**
- 3 FISH**

*You can select the category by touching the numeric key 1 (MEAT), numeric key 2 (POULTRY), and numeric key 3 (FISH) after touching the AUTO DEFROST pad.

*Available weight is 0.1~6.0 lbs(0.1~4.0 kgs).

Example: To defrost 1.2 lbs of ground beef.

AUTO DEFROST

↓

1

↓

1

2

↓

START

1. Touch **AUTO DEFROST** pad.
Display scrolls the words
MEAT PRESS 1
POULTRY PRESS 2
FISH PRESS 3.

2. Touch **1** pad.
Display scrolls the words
ENTER WEIGHT.

3. Enter the weight by touching
[1] and **[2]** pad.
Display scrolls the words
1.2 LBS PRESS START

4. Touch **START** pad.
Defrosting starts.

NOTE:

When you touch the START pad, the display changes to defrost time count down. The oven will beep twice during the DEFROST cycle. At each beep, 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.**

* 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.

* Place foods in a shallow glass baking dish 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
1 MEAT	<p>BEEF Ground beef, Round steak, Cubes for stew, Tenderloin steak, Pot roast, Rib roast, Rump roast, Chuck roast, Hamburger patty.</p> <p>LAMB Chop (1 inch thick), Rolled roast</p> <p>PORK Chop (1/2 inch thick), Hot dogs, Spareribs, Country-style ribs, Rolled roast, Sausage.</p> <p>VEAL Cutlets (1 lbs, 1/2 inch thick)</p>
2 POULTRY	<p>POULTRY Whole (under 4 lbs.), Cut up Breasts (boneless)</p> <p>CORNISH HENS Whole</p> <p>TURKEY Breast(under 6 lbs)</p>
3 FISH	<p>FISH Fillets, Whole Steaks</p> <p>SHELLFISH Crab meat, Lobster tails, Shrimp, Scallops</p>

Heating or Reheating Guide



Do not use aluminum foil during cooking cycle.

MEAT

1. The roast should be prepared and seasoned (if desired) as for any other conventional method. Meat should be thoroughly defrosted before cooking.
2. Place the meat on a microwave roasting rack or ovenproof plate and place on the turntable.
3. Cook according to the cooking chart (below), using 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. STAND for 5-10 minutes wrapped in foil after cooking. The standing time is very important as it completes the cooking process.
6. Ensure meat, especially pork, is thoroughly cooked before eating.

MEAT COOKING CHART

Cut	Microwave power	Cooking time per pound
BEEF		
Standing/Rolled Rib		
-Rare	8	8½~9½ minutes
-Medium	8	8~10 minutes
-Well-done	8	10~12 minutes
Ground Beef (to brown for casserole)	HIGH	6~8 minutes
Hamburgers, Fresh or defrosted (4 oz. each)		
-2 patties	HIGH(100%)	2~4 minutes
-4 patties	HIGH(100%)	3~5 minutes
PORK		
Loin, Leg	8	11~14 minutes
Bacon		
-4 slices	HIGH	2~3 minutes
-6 slices	HIGH	3~4 minutes

NOTE:

The above times should be regarded only as a guide. Allow for difference in individual tastes and preferences. The times may vary due to the shape, cut, and composition of the meat.

POULTRY

1. No special techniques are required. The poultry should be prepared as for any other conventional method. Season if desired.
2. Poultry should be thoroughly defrosted, ensuring giblets and any metal clamps are removed.
3. Prick the skin and brush lightly with vegetable oil unless 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 cooking chart (below), turning the bird over halfway through the cooking time. Poultry, because of its shape, has a tendency to cook unevenly, especially in very bony parts. Turning the bird during roasting helps to cook these areas evenly.
6. 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. Ensure 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 portions 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	8	9~13 minutes
Breast(boned)	8	9~13 minutes
Portions	8	9~15 minutes
TURKEY		
Whole	8	10~13 minutes

NOTE:

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

Heating or Reheating Guide

FISH

1. Arrange fish in a large shallow non-metallic dish or casserole.
2. Cover with pierced microwave plastic film or casserole lid.
3. Place the dish on the turntable.
4. Cook according to the instructions in the cooking chart (below). 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	4~7 minutes	Add 15~30 ml (1~2 tbsp.) lemon juice	2~3 minutes
Whole Mackerel, Cleaned and Prepared	HIGH	4~7 minute	—	3~4 minutes
Whole Trout, Cleaned and Prepared	HIGH	5~7 minutes	—	3~4 minutes
Salmon Steaks	HIGH	5~7 minutes	Add 15~30 ml (1~2 tbsp.) lemon juice	3~4 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, vented. Remove cover carefully to prevent steam burns. Use the following chart as a guide for reheating cooked food.

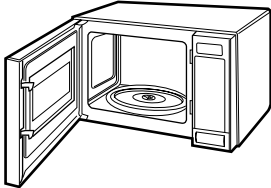
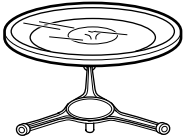

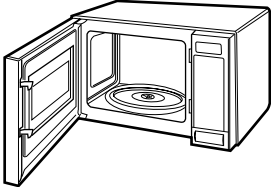
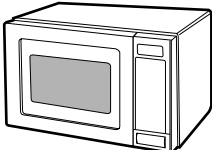
Items	Cook time (at HIGH)	Special Instructions
Sliced meat 3 slices (1/4-inch thick)	1~2 minutes	Place sliced meat on microwavable plate. Cover with plastic wrap and vent. Note: Gravy or sauce helps to keep meat juicy.
Chicken pies 1 breast 1 leg and thigh	2~3 1/2 minutes 1 1/2~3 minutes	Place chicken 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 (10 1/2 oz.)	4~5 minutes	Place lasagna on microwavable plate. Cover with plastic wrap and vent.
Casserole 1 cup 4 cups	1~3 1/2 minutes 4 1/2~7 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 1/2~3 minutes 5~8 minutes	COOK covered in microwavable casserole. Stir once halfway through cooking.
Baked beans 1 cup	1 1/2~3 minutes	COOK covered in microwavable casserole. Stir once halfway through cooking.
Ravioli or pasta in sauce 1 cup 4 cups	2 1/2~4 minutes 7~10 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 microwavable rack.
Vegetables 1 cup 4 cups	1 1/2~4 minutes 5~7 minutes	COOK covered in microwavable casserole. Stir once halfway through cooking.
Soup 1 serving(8 oz.)	1 1/2~2 1/2 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 10~12	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.	7~10	Add 1/2 cup water in 1- 1/2 qt. casserole. Stir halfway through cooking.	2-3 minutes
Beets, Fresh	1 lb.	12~16	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	1lb.	5~7	Add 1/2 cup water in 1- 1/2 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	1 lb.	6~10	Trim. Add 1/4 cup water in 1 qt. covered casserole. Stir halfway through cooking.	2-3 minutes
Celery, Fresh, Sliced	2 cups 4 cups	3~5 7~9	Slice. Add 1/4 cup water in 1- qt. covered casserole. Stir halfway through cooking	2-3 minutes
Corn, Fresh	2 ears	5~8	Husk. Add 2 tbsp water in 1-1/2 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	1lb.	4~8	Add 1/2 cup water in 1-1/2 qt. covered casserole. Stir halfway through cooking.	2-3 minutes
Peas, Green, Fresh	4 cups	6~9	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	5~8 6~11	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	5~7 8~13	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	1lb.	5~7	Add 1/2 cup water in 2 qt. covered casserole.	2-3 minutes
Squash, Acorn or Butternut, Fresh	1 medium	6~8	Cut squash in half. Remove seeds. Place in 8x8-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.	7~8	Pierce. Place on 2 paper towels. Turn zucchini over and rearrange halfway through cooking.	2-3 minutes

Cleaning

Before cleaning the oven, unplug the power supply cord of the oven.
 If impossible, open the oven door to prevent an accidental oven start.

Part	Description
<p>INSIDE OF THE OVEN</p> 	<p>Use a damp cloth to wipe out crumbs and spillovers.</p> <p>It is important to keep the area between door and cavity front clean to assure a tight seal.</p> <p>Remove greasy spatters with a sudsy cloth, then rinse and dry.</p> <p>Do not use harsh detergent or abrasive cleaners.</p>
<p>GLASS TRAY</p> 	<p>The glass tray can be washed by hand or in the dishwasher.</p>
<p>CONTROL PANEL</p> 	<p>Wipe with a damp cloth followed immediately by a dry cloth.</p> <p>The Child Lock feature is also useful when cleaning the control panel.</p> <p>Child Lock prevents accidental programming when wiping the control panel.</p>
<p>DOOR</p> 	<p>If steam accumulates inside or around the outside of the oven door, wipe the panel with a soft cloth.</p> <p>This may occur when the microwave oven is operated under high humidity conditions and in no way indicates a malfunction of the unit.</p>
<p>OUTSIDE OVEN SURFACE</p> 	<p>Clean with damp cloth.</p> <p>To prevent damage to the operating parts inside the oven, the water should not be allowed to seep into the ventilation openings.</p>

After cleaning the oven, be sure that the rotating ring and the glass tray are in the right position.
 Press the STOP/CLEAR pad twice to reset any accidental key setting.

Before Calling For Service

Please check your problem by using the guide below and try the solutions for each problem. If the microwave oven still does not work properly, contact the nearest authorized service center.

Symptom	Check
OVEN WILL NOT START AT ALL	<ul style="list-style-type: none"> * Electrical cord for oven is not plugged in. -Plug into the outlet. * Door is open. -Close the door, and try again. * Wrong operation is set. -Check operation instructions.
ARCING OR SPARKING	<ul style="list-style-type: none"> * Materials to be avoided in microwave oven are used. -Use microwave-safe cookware only. * The oven is operated when empty. -Do not operate with oven empty. * Food refuse remains in the cavity or inside the cavity is uncleaned. -Clean cavity with wet towel.
UNEVEN COOKING OR POOR DEFROSTING	<ul style="list-style-type: none"> * Materials to be avoided in microwave oven are used. -Use microwave-safe cookware only. * Cooking time/Cooking power level is not suitable. -Use correct time/Cooking power level. * Food is not turned or stirred. -Turn or stir food.
OVERCOOKED FOODS	<ul style="list-style-type: none"> * Cooking time/Cooking power level is not suitable. - Use correct time/cooking power level when you cook the same food. * Use the LESS pad, and cook time will be decreased 10 seconds per one touch.
UNDERCOOKED FOODS	<ul style="list-style-type: none"> * Materials to be avoided in microwave oven are used. -Use microwave-safe cookware only. * Food is not defrosted completely. -Completely defrost food. * Oven ventilation ports are restricted. -Check to see that oven ventilation ports are not restricted. * Cooking time/Cooking power level is not suitable. -Use correct time/Cooking power level when you cook the same food. * Use the MORE pad, and time will be increased 10 seconds per one touch.

ALL THESE THINGS ARE NORMAL

- * Dull thumping sound during oven operation.
- * Steam or vapor escaping from around the door.
- * Light reflection around door or outer wrapper.
- * Dimming oven light and change in blower sound during oven operation at power levels other than high.

- * Some radio and TV interference might occur during operations. It is similar to the interference caused by other small appliances such as mixers, blow dryer, etc.

Warranty

Amana[®] MICROWAVE OVEN ONE YEAR WARRANTY ON ALL PARTS FIVE YEAR WARRANTY ON MAGNETRON TUBE

FIRST YEAR

Amana Appliances will repair or replace, including related labor, any part (f.o.b. Amana, Iowa) which proves to be defective as to workmanship or materials, when carried into an authorized Amana servicer.

SECOND THRU FIFTH YEAR

Amana Appliances will repair or replace, including related labor, a magnetron tube, (f.o.b. Amana, Iowa), which proves defective as to workmanship or materials, when carried into an authorized Amana servicer.

OWNER'S RESPONSIBILITIES:

- Provide proof of purchase. (Sales Receipt)
- Provide normal care and maintenance, including cleaning as instructed in owner's manual.
- Replace owner replaceable items where directions appear in the Owner's Manual.
- Make product accessible for service.
- Pay for premium service costs for service outside servicer's normal business hours.
- Pay for service calls related to product installation and customer education
- Pay for service technician's travel expenses.

ITEMS NOT COVERED:

- Normal product maintenance and cleaning.
- Lost or broken air filters.
- Light bulbs.
- Damages which occur in shipment.
- General rebuilding or refurbishing that is not a legitimate warranty repair.
- Failures caused by:
 - Unauthorized service.
 - Grease or other material buildup due to improper cleaning or maintenance.
 - Accidental or intentional damage.
 - Connection to an improper power supply.
 - Acts of God.
 - Operating an empty oven.
 - Use of improper pans, containers, or accessories that causes damage to the product.

WARRANTY LIMITATIONS:

- Begins at date of original purchase.
- Applies to product used for NORMAL food preparation.
- Applies to product used within the United States or in Canada if product has appropriate agency listing when shipped from the factory.
- Service must be performed by an authorized Amana servicer.

WARRANTY IS VOID IF:

- Serial plate is defaced.
- Product has a defect or damage due to product alteration, connection to an improper electrical supply, installation in a corrosive environment accident, fire, flood, lighting, or other condition beyond the control of Amana Appliances. Product is improperly installed, used, or maintained.
- Product is used on a commercial, rental, or leased, basis.

IN NO EVENT SHALL AMANA APPLIANCES BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES*

* This warranty gives you specific legal rights and you may have others which vary from state to state. For example, some states do not allow the exclusion or limitation of incidental or consequential damages so this exclusion may not apply to you.

For answers to questions regarding the above or to locate an authorized Amana servicer, contact:

Amana Appliances
2800 220th Trail
Amana, Iowa 52204-0001
USA
1-800-843-0304 inside U.S.A.
1-319-622-5511 outside U.S.A.

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