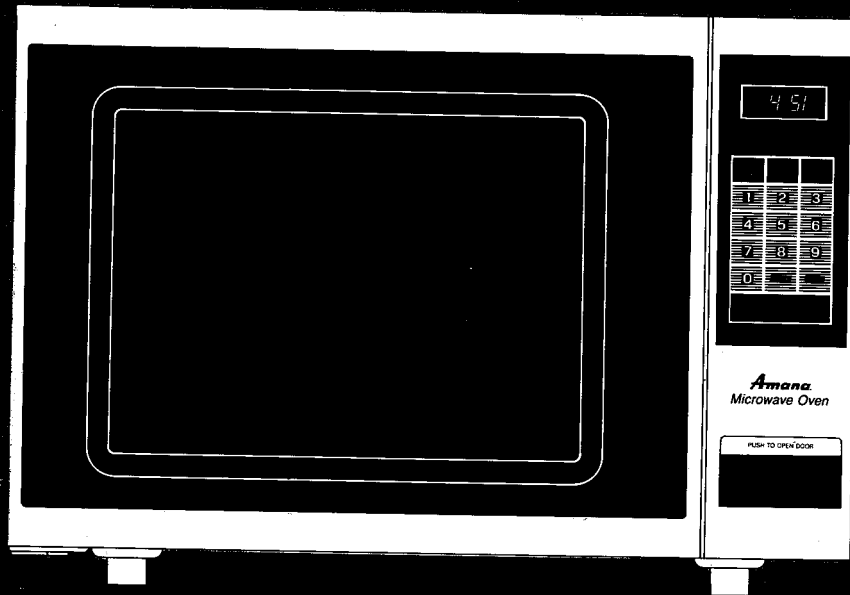


Amana® Microwave Oven

Model ML451T Use & Care Manual



Record in the space below the Model No., Manufacturing (Mfg.) No. and Serial No. found on the nameplate on the back of your oven.

Model No. _____

Serial No. _____

Mfg. No. _____

Date Installed _____

Selling Dealer _____

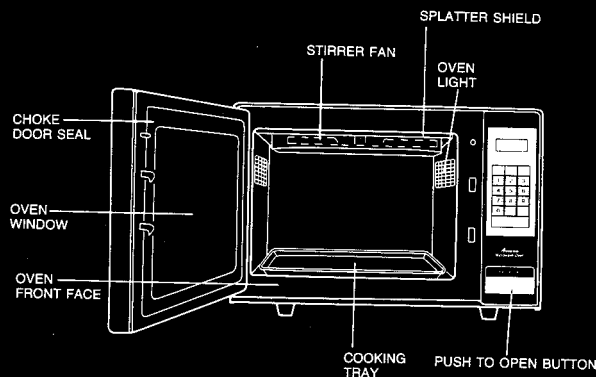
Retain these numbers and your Sales Receipt for proof of purchase should warranty questions arise. Your Sales Receipt is required should warranty service be needed. Complete the registration card, which is included in the packet that comes with the oven. This must be filled out and returned to Amana Refrigeration, Inc. Federal regulations require that all manufacturers of microwave ovens have a permanent record of the owners of each oven.

READ THIS MANUAL BEFORE OPERATING YOUR OVEN

CONTENTS

Important Safety Instructions	2
Unpacking the Oven	2
Oven Placement	2
Grounding Instructions	3
Safety Instructions	3
To Avoid Possible Exposure to Excessive Microwave Energy	3
The Control Panel	4
Setting the Clock	4
Cooking With High Power	5
Defrosting With the Accu-Thaw™ Feature	5
Cooking with Lower Power Levels	5
Programmed Cooking Using 2 Cooking Programs	6
Maintenance and Cleaning	6-7
If the Glass Tray Should Break	7
BEFORE YOU CALL FOR SERVICE	7
When Service Is Required	7

OVEN PARTS



IMPORTANT SAFETY INSTRUCTIONS

When using electrical appliances, basic safety precautions should be followed, including the following:

WARNING — To reduce 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 4.
3. This appliance must be grounded. Connect only to properly grounded outlet. See "GROUNDING INSTRUCTIONS" found on page 3.
4. Install or locate this appliance only in accordance with the provided installation instructions.
5. Some products such as whole eggs and sealed containers --- for example, closed glass jars --- may explode and should not be heated in this oven.
6. Use this appliance only for its intended use as described in this manual.
7. As with any appliance, close supervision is necessary when used by children.
8. Do not operate this appliance if it has a damaged cord or plug, if it is not working properly, or if it has been damaged or dropped.
9. This appliance should be serviced only by qualified service personnel. Contact nearest authorized service facility for examination, repair or adjustment.
10. Do not cover or block any openings on the appliance.
11. Do not use outdoors.
12. Do not immerse cord or plug in water.
13. Keep cord away from heated surfaces.
14. Do not let cord hang over edge of table or counter.
15. See door cleaning instructions on page 6.
16. To reduce the risk of fire in the cavity:
 - a. Do not overcook the 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, by pressing the RESET pad and disconnecting the power cord, or shutting off power at the fuse or circuit breaker panel.

SAVE THESE INSTRUCTIONS

UNPACKING THE OVEN

Inspect the oven for any damage such as dents or holes in the screen of the door or dents inside the oven cavity. Any dents or breakage should be reported to your Amana Dealer immediately. Your Amana Dealer will

tell you if the unit will operate correctly.

After removing packing material and literature, place the supplied glass tray in the oven. Do not operate oven without glass tray in place.

OVEN PLACEMENT

The oven must sit on a flat surface with its plastic feet in place.

Do not build the oven in with the sides, top or bottom air flow restricted. The oven must have sufficient airflow around it.

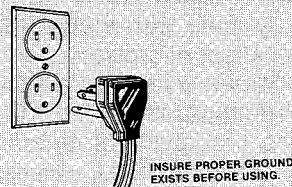
The vents are located on the top, bottom and

back of the oven. Never place objects over vents or allow anything to cover or block them.

The oven should be placed away from high temperature or steam.

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 with a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded. Do not use a two-prong adaptor.



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

Consult a qualified electrician or serviceman if the grounding instructions are not completely understood, or if doubt exists as to whether the appliance is properly grounded.

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 extension cord must be rated at a minimum of 15 amps, 120 volts, and should be no more than six feet in length. This oven should be plugged into a separate 120 volt, 15 amp, 60 hertz circuit. When a microwave oven is on a circuit with other appliances, cooking times can be increased and fuses can be blown.

SAFETY INSTRUCTIONS

Read and follow these Rules for Safe Operation

The Amana Microwave Oven is designed to be safe and reliable. As with all appliances, there are certain rules to follow. Make sure everyone who cooks is familiar with this product's operation and with these precautions.

PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

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

PRECAUTIONS

- (a) **Do not operate the oven when door seal is damaged.** To do so would allow microwave energy to escape.
- (b) **WARNING:** Liquids must be briskly stirred or poured (to mix in air) before being heated in a microwave oven. If air is not mixed into a liquid, the liquid can erupt in the oven or after removal from the oven.
- (c) **Eggs** must not be cooked or reheated in the shell, or with an unbroken yolk. To do so may result in a pressure buildup and eruption.

Pierce the yolk with a fork or knife before cooking. Do not reheat previously cooked eggs in the microwave oven unless finely chopped or scrambled.
- (d) **Use only popcorn in packages designed and labeled for microwave use.** Pop according to package directions, beginning with the minimum amount of time recommended. Pop until bag has expanded and there are one to two seconds between pops. Popcorn yields may vary. Do **not** continue to heat after popping has

stopped, since popcorn will scorch or burn. Do **not** leave oven unattended.

- (e) **Home canning** must not be done in a microwave oven. Home canning is generally done with metal lids. Since metal lids reflect microwaves, you cannot be assured that the food product will be heated uniformly to 212°F or above, and there is a probability of deterioration of the food product. USDA extension specialists do not recommend home canning in microwave ovens.
- (f) **Deep fat frying** must not be done in any microwave oven. The fat could overheat and be hazardous to handle.
- (g) **WARNING:** Do not heat sealed containers in any microwave oven. Containers with restricted openings such as syrup bottles must not be used for cooking. Food or liquid could expand quickly and cause the container to break.
- (h) **Regular cooking thermometers** must not be used in a microwave oven. They may contain mercury and may cause "arcing", malfunction, and/or damage to the oven.
- (i) **Plastic bags (and other air-tight containers)** must always be pierced or opened

before heating in a microwave oven. This is needed to allow steam to escape during cooking.

- (j) **Metal or ceramic accessories** which have a special design to absorb microwave energy to provide heat ("active" accessories such as browning skillets) may be used with caution. Be sure to test any such device before use and to read carefully and follow all manufacturer's instructions provided with the accessory. Any questions should be referred to the accessory manufacturer. Amana Refrigeration, Inc., does not endorse any brand of accessory. Remember that all microwave accessories are not "top quality"; some may not be suitable for microwave cooking. Caution must be used when purchasing microwave accessories.
- (k) **Newspapers** must never be used in a microwave oven since they may ignite.
- (l) **Paper towels** which contain nylon or have other synthetic fibers woven through them must not be used because the heated synthetics could melt and cause the paper to ignite.

THE CONTROL PANEL

READOUT DISPLAY—Normally shows time of day. Also shows cooking time, defrosting time, and power level number when selected.

DEFROST INDICATOR LIGHT—Indicates when Accu-Thaw™ is being used.

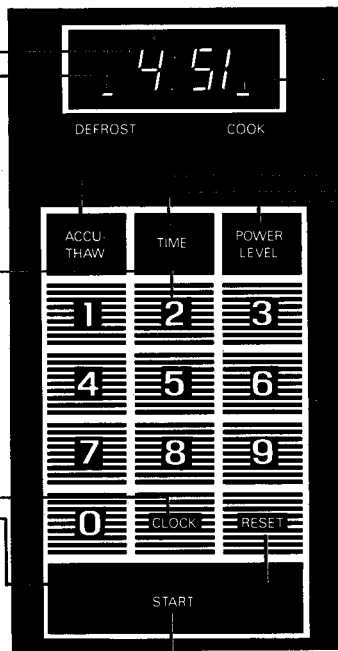
NUMBERS (0-9)—Use to select numbers for power level, cooking time and defrosting time.

CLOCK—Use to set time of day.

RESET—Cancels all instructions. Stops oven if oven is operating.

START—Press to start operation when ready to cook or defrost.

NOTE: All pads will sound a "beep" signal when pressed.



COOK INDICATOR LIGHT—Indicates when oven is operating.

ACCU-THAW—Controls defrosting cycle. Press before entering numbers for defrosting time. Oven will defrost using three power levels, which change automatically during defrosting time.

TIME—Controls cooking time. Press before entering numbers for cooking time.

POWER LEVEL—Controls cooking speed. Press before selecting number for one of the nine power levels. Oven automatically cooks on HIGH, which is Power Level 9.

DOOR OPERATION BUTTON—Push to open door.

SETTING THE CLOCK

When the oven is initially plugged in, "1:01" will appear in the display window.

1. Press **CLOCK**.
2. Press **RESET** within 5 seconds.
3. Enter the time of day by pressing the numbers in sequence. For example, if it is

3:45 (a.m. or p.m.), press number pads **3**, **4**, and **5** in that order.

4. Press **CLOCK** again. The two dots between the hour and minutes will flash every other second.

TRY IT! COOKING WITH HIGH POWER

Before operating this oven, please read the introductory chapter in the cookbook. This oven provides approximately 500 watts* of cooking power when operating on HIGH (Power Level 9).

1. Open oven door by pushing button labeled PUSH TO OPEN DOOR.
2. Place food in center of oven and close oven door.
3. Press **RESET** to erase any previous information.
4. Press **TIME**.
5. Press cooking time numbers (for 2 minutes and 30 seconds, press **2**, **3**, **0**).
6. Press **START** and the oven will automatically cook on HIGH, which is Power Level 9. The oven light will come on

and the blower will operate. The display will show cooking time as it "counts down". The cook indicator light will also appear in the display.

7. To interrupt cooking, simply open the oven door. Microwave energy will stop immediately, the display countdown will pause and the blower will turn off. To resume cooking, close oven door and press **START**. Operation will continue from where it stopped.
8. When cooking time has elapsed, a signal will sound three times and all oven functions will cease. The display will return to the time of day.

NOTE: If you press **RESET** while the oven is operating, the oven will shut off and all programming will be erased.

TRY IT! DEFROSTING WITH THE ACCU-THAW™ FEATURE

Most frozen food can be defrosted quickly by using **ACCU-THAW**, which automatically selects various power levels for optimum defrosting results, without much of the premature cooking that occurs with many ordinary microwave oven defrost cycles. It pulses microwave energy on and off at the proper power levels. During the "on" periods, the exterior of the food is heated. During the "off" periods, heat is conducted to the interior of the food, allowing uniform defrosting with little or no cooking on the exterior. **Note:** Many foods, especially meats, must be defrosted completely before cooking begins. If ice crystals remain inside foods, cooking will be uneven because the outside of the food will be done, but the inside will be underdone. Consult the Accu-Thaw Defrosting Guide in your cookbook when using **ACCU-THAW**.

To defrost foods using **ACCU-THAW**:

1. Place frozen food inside oven and close oven door. If food is inside a plastic bag, slit the bag to allow steam to escape.
- Press **RESET**.
3. Press **ACCU-THAW**.
 4. Press numbers for defrosting time. (For example, to defrost for 12 minutes, press **1**, **2**, **0**, **0**.) Start with the shortest length of time and increase if needed.
 5. Press **START** and the oven will operate. Defrosting time will be displayed as it "counts down". The defrost indicator light will also be displayed.

NOTE: If additional defrosting time is needed after the minimum automatic defrosting time, finish defrosting on Power Level 2.

*Per 1 liter test.

TRY IT! COOKING WITH LOWER POWER LEVELS

Your microwave oven cooks most foods well on HIGH Power (9). It can also operate on lower power levels such as those required in some of the recipes in the microwave oven cookbook. For example, to simmer a hot beverage:

1. Press **RESET**.
2. Press **POWER LEVEL**.
3. Press Power Level number (for example, **3**).
4. Press **TIME**.
5. Press numbers for cooking time (for 12 minutes, press **1, 2, 0, 0**).

6. Press **START**.

NOTE: To check time of day or to recheck power selected while the oven is operating, press **CLOCK** or **POWER LEVEL**. The display will show the time of day or power level for five seconds, then resume showing any remaining cooking or defrosting time. The oven will not shut off.

POWER LEVELS		
1 WARM	4 MEDIUM	7 BAKE
2 LOW	5 SLO COOK	8 MED HI
3 SIMMER	6 ROAST	9 HIGH (Full Power)

TRY IT! PROGRAMMED COOKING USING 2 COOKING PROGRAMS:

This oven can remember up to two cooking programs, so you can defrost food and cook, all with one set of instructions.

1. Put food in oven and close oven door.
2. Press **RESET**.
3. Enter your defrosting instructions for Cooking Program 1 by pressing **ACCUTHAW** first, then the numbers for defrosting time (for 15 minutes, press **1, 5, 0, 0**).
4. Press **TIME** to "advance" to Program 2.
5. Enter your cooking instructions for Program 2 by pressing cooking time numbers first (for 2 minutes, 45 seconds, press **2, 4, 5**). If a lower power level is desired, then press **POWER LEVEL** followed by the power level number (for example, **3**).
6. Press **START**.

MAINTENANCE---CLEANING THE OVEN

To Clean the Oven and Door Interiors

If the inside walls, floor, door, oven front face and splatter shield become splattered, simply wipe them with a paper towel or clean with a mild detergent in warm water using a soft sponge or cloth. If desired, a cup of water can be boiled for several minutes in the oven to help make cleaning easier. After boiling the water, allow the water vapor to settle on the oven walls to soften the soil for several minutes before you open the door.

Do not use abrasive cleansers or cleaners containing ammonia. They might damage the finish. Never pour water into the bottom of the oven.

To Clean the Glass Tray

Lift the tray and remove it from the oven.

Wash in warm water and detergent or in a dishwasher. Replace drip tray so the words "FOR MICROWAVE OVEN ONLY" are readable. Do not operate the oven without tray in position.

To Clean the Splatter Shield Inside Oven

The splatter shield keeps the top of the oven and stirrer fan from getting dirty. Normally, a damp cloth will remove any splatter from the shield.

To Clean the Oven Exterior

Use a soft sponge or cloth dampened with mild, sudsy water. Do not use abrasive cleaners.

To Clean the Discharge Air Vents

There will be a slight buildup of cooking vapors in the discharge vents located on the

top of the oven. These vents should be cleaned occasionally using a damp cloth.

If the Oven Light Should Fail

The oven light comes on whenever time is set and START is pressed, or when the door is

opened. If the light should fail, take the oven to your nearest authorized Amana servicer to have the light replaced. **DO NOT ATTEMPT TO REPLACE THE OVEN LIGHT BY YOURSELF!**

IF THE GLASS TRAY SHOULD BREAK

The glass oven tray must be in place when operating the oven. This allows the microwaves to be reflected up into the bottom of the food being cooked. The tray is a special

type of glass and unique to this oven model. If the tray is accidentally broken, it must be replaced with the same type of tray from your Amana Dealer.

BEFORE YOU CALL FOR SERVICE

If microwave power won't come on:

- Did you set the time correctly and press the START pad?
- Is the oven door securely closed?
- Is the oven plugged securely into the power outlet?
- Is a fuse or circuit breaker open?

If food is undercooked:

- Are there other energy-consuming appliances on the same circuit as the microwave oven? (Review grounding instructions.)
- Is the line voltage to your home low or lower than usual? (The power company in your area should be able to tell you if there is a low voltage to your home.)

WHEN SERVICE IS REQUIRED

Call nearest authorized service agency. (The dealer from whom you purchased your microwave oven can give you the name of your nearest authorized Service Center.) Help them give you prompt service by providing:

1. An accurate description of the trouble.
2. Complete model, manufacturing and serial numbers (located on the nameplate on the back of the oven).
3. Date of installation.

Remember, repair by an unauthorized service person that results in subsequent failure will

void the warranty promise.

Amana has a large network of Authorized Service Centers in the U.S. However, if you should have a service problem that is not resolved locally,

Write: Customer Relations Department
AMANA REFRIGERATION, INC.
Amana, Iowa 52204

Or dial: (319)622-5511 Monday through Friday
(8 a.m. - 4:30 p.m., Central Time Zone) and
ask for Customer Relations.