# Model RS30\* Use & Care Manual



Record in the space below the Model No., Manufacturing (Mfg) No. and Serial No. found on the nameplate of your oven. The nameplate is located at the back of the oven interior in the upper left hand corner.

Model No.

Mfg. No.

Serial 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 if warranty service is needed. Complete the registration card, which is included with 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.

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# IMPORTANT SAFETY INSTRUCTIONS

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

**WARNING** — to reduce the risk of burns, electrical shock, fire, injury to persons or exposure to excessive microwave energy:

- 1. Read all instructions before using the appliance.
- Read and follow the specific "PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY" found on page 3.
- This appliance must be grounded. Connect only to properly grounded outlet. See "GROUNDING IN-STRUCTIONS" below.
- 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.
- 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.

- This appliance should be serviced only by qualified service personnel. Contact nearest authorized service facility for examination, repair or adjustment.
- 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 7.
- 16. To reduce the risk of fire in the 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.

# 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

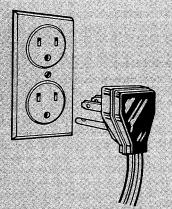
breakage should be reported to your Amana Dealer immediately. You will be told if the unit will operate correctly.

### **OVEN PLACEMENT**

Do not build the oven in with the sides, top or bottom airflow restricted. The oven must have sufficient airflow around it. If you wish to build in this Radarange Oven, use only Amana model "RS"

trim kits that have a label identifying which Amana Radarange Oven Model Series may be used. Trim kits can be purchased from your Amana Dealer.

# **GROUNDING INSTRUCTIONS**



INSURE PROPER GROUND EXISTS BEFORE USING.

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, an increase in cooking times may be required and fuses can be blown.

### SAFETY INSTRUCTIONS

Read and follow these Rules for Safe Operation.

This microwave oven is designed to be safe and reliable. As with all appliances, there are certain rules to follow. Make sure everyone who cooks with this oven 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 (d) 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: (a) Door (bent), (b) hinges and latches (broken or loosened), (c) door seals and sealing surfaces.
  - The oven should not be adjusted or repaired by anyone except properly qualified service personnel.

### **PRECAUTIONS**

- (a) Always press STOP/RESET before programming the oven.
- (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 build-up 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) 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.
- (e) Deep fat frying must not be done in any microwave oven. The fat could overheat and be hazardous to handle.
- (f) 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.

- (g) Regular cooking thermometers must not be used in a microwave oven. Most cooking thermometers contain mercury and may cause "arcing", malfunction, and/or damage to the oven.
- (h) 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.
- (i) 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 manufacturer's instructions provided with the accessory. Any questions concerning these accessory products 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.
- (j) Newspapers must never be used in a microwave oven since they may ignite.
- (k) Paper towels which contain nylon or other synthetic fibers woven through them must not be used because the heated synthetics could melt and cause the paper to ignite.

### **CHECKING OVEN OPERATION**

- A. Set the optional entry tone signal. This optional signal can be set to "beep" whenever a pad is pressed. It confirms the oven has "read" and accepted your entry. To program the entry signal:
  - 1.Plug in the oven. Dash lines will appear in the display.
  - 2. Press TIMER. The oven will "beep" now and whenever you press any pad.

To cancel the entry signal:

Unplug the oven and reconnect it, but do not press

**TIMER.** Dash lines will appear in the display. Set the clock as described on the next page. The oven will not beep when you press the pads.

B. To deactivate the end-of-cycle signal. This optional signal can be set to "beep" to indicate when cooking time has elapsed and when food has reached a set temperature.

To program the end-of-cycle signal:

The signal is automatically set when you plug in the oven.

To cancel the end-of-cycle signal:

# Press STOP/RESET before programming the oven.

**Note:** Throughout this manual, you will note references to a tone that signals the end of a cooking or timing operation. If you have cancelled the end-of-cycle signal, disregard these references.

C. Oven Light

The oven light will come on when the oven door is opened. It will also come on when the oven is operating.

#### D. Set the Clock

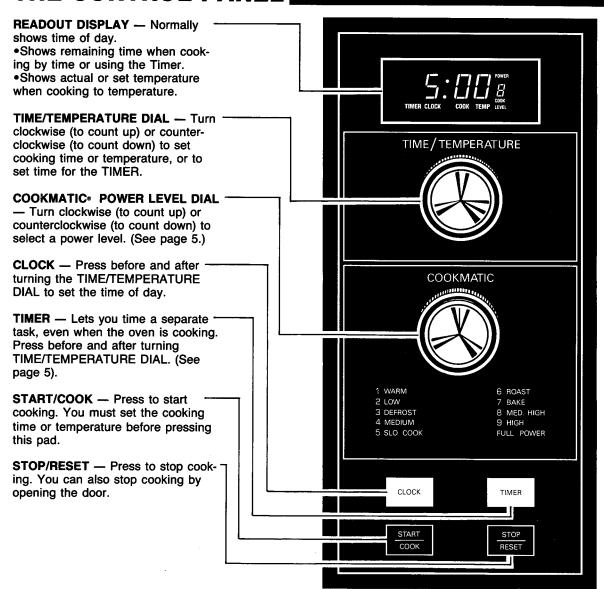
- 1. Check that the temperature probe is not in the oven. Press CLOCK."CLOCK" will flash in the display.
- 2. Turn the **TIME/TEMPERATURE DIAL** clockwise (to count up) or counterclockwise (to count down) to set the correct time of day.
- 3. **Press CLOCK** again. "CLOCK" will disappear from the display.
- E. Check operation of the interlock switch systems. The START/COOK and STOP/RESET pads turn the oven on and off. Microwave energy is generated only when the door is closed, cooking time or temperature has been set, and START/COOK has been pressed. In addition, the oven has interlock switches to assure that no microwave energy is generated when the door is open. To check or remove food before the cooking time has elapsed, you may either press STOP/RESET or open the oven door to turn the oven off. Before the oven door opens, hidden interlock switches sense the motion of the door handle and automatically turn the oven off.

Here is how you may check the operation of

# START/COOK, STOP/RESET and the interlock switches:

- 1. Place a glass of water in oven and close oven door.
- 2. Turn the TIME/TEMPERATURE DIAL clockwise.
- 3. **Press START/COOK.** The oven should operate and the oven light should come on.
- 4. **Press STOP/RESET.** The oven should shut off immediately and the sound of the motor should cease. The oven light should go out.
- 5. **Open oven door fully.** The oven light should come on when the door is opened.
- 6. **Press STOP/RESET**. The time of day will be displayed again. If under any of the preceding conditions the oven does not operate as stated, do not use it. Call your dealer or authorized service agency.

### THE CONTROL PANEL;



### TRY IT! COOKING WITH FULL POWER:

This is the fastest and easiest way to cook. At Full Power, your oven provides approximately 650 watts\* of cooking power. It's very fast!

- Place food in oven and close oven door. When using the oven, always have food or water inside to absorb microwave energy.
- 2. Press STOP/RESET.
- Turn the TIME/TEMPERATURE DIAL clockwise to set cooking time. If you turn past the desired time, simply turn the dial in the opposite direction. The display will count up or down as follows:
  - Between 5 seconds and 2 minutes: in 5-seconds increments. (for example, :5, :10, :15, :20 and so on).
  - Between 2 minutes and 10 minutes: in 10-second increments. (For example, 2:10, 2:20, 2:30, 2:40 and so on).
  - Between 10 minutes and 20 minutes: in 30-second increments. (For example, 10:30, 11:00, 11:30, 12:00 and so on.)

- Between 20 minutes and 99 minutes: In 1-minute increments. (For example, 21:00, 22:00, 23:00, 24:00 and so on).
- 4. Turn the TIME/TEMPERATURE DIAL To Full Power ("F COOK LEVEL" is displayed.)
- Press START/COOK and the oven will operate. The time in the display will count down. "COOK" will be displayed, indicating that the oven is cooking. "POWER" will be displayed constantly, indicating that full power is being used.
- 6. To change the cooking time during cooking, turn the TIME/TEMPERATURE DIAL until the desired new time appears in the display. You do not have to stop the oven. Cooking time will be added or subtracted, in the increments listed above, from the point in the countdown where the time was changed.
- The oven will stop and sound a signal at the end of cooking time. The time of day will reappear in the display.

### TRY IT! USING THE TIMER

You can use the oven like a seperate timer to time mixing, steeping or even telephone calls.

If the oven is not cooking:

- 1. PressSTOP/RESET.
- Press TIMER. The display will show "0" and the word "TIMER" will flash.
- 3. Turn the TIME/TEMPERATURE DIAL to set the desired time.
- 4. **Press TIMER**. The display will "count down" and show "TIMER", indicating the timer function is in use.
  - Note: Do not press **START/COOK**. Press it only when you want to cook.
- A signal will sound when the time has elapsed. The time of day will reappear in the display.

### If the oven is cooking:

1. **Press TIMER**. Do not stop the oven.

# 2. Turn the TIME/TEMPERATURE DIAL to set the desired time.

- 3. **Press TIMER**. The display will "count down" the timer time and show "TIMER" along with the other ongoing oven functions. When the timer time has elapsed, a signal will sound, the display will show any remaining cooking time and the oven will finish cooking.
- To change a timer setting, simply dial in the new time desired and press TIMER again.
- To check the cooking time before the timer has elapsed, press START/COOK. To check the time remaining on the timer, press TIMER.
- After the timer sounds, the display will count down any remaining cooking time.

# TRY IT! DEFROSTING/ USING COOKMATIC® POWER LEVELS

Just as some foods cook better conventionally at lower rather than higher oven temperatures, some foods cook better at lower rather than higher microwave power levels. This oven has 10 power levels, including defrost, each well-suited for different types of foods. Most frozen foods can be defrosted quickly by using Cookmatic level 3, while other foods may defrost better at other Cookmatic levels.

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 food will be done, but the inside will be underdone. For best defrosting and cooking results at low power levels, carefully follow the appropriate instructions for the desired foods in the cookbook that came with this oven.

To defrost or cook using lower Cookmatic levels:

1. Place food in oven and close oven door.

- 2. Press STOP/RESET.
- 3. Turn TIME/TEMPERATURE DIAL to set cooking time.
- Turn COOKMATIC POWER LEVEL
   DIAL to set power level (to defrost at Level 3, turn the dial until "3 COOK LEVEL" is displayed).
- 5. Press START/COOK and the oven will operate.
- To change power levels during operation, turn the COOKMATIC POWER LEVEL DIAL until the new power is displayed. To return to Full Power, turn the dial clockwise until "F COOK LEVEL" is displayed.
- The oven will stop and sound a signal at the end of the cooking time.

<sup>\*</sup> Per 1-liter test.

# USING THE AUTOMATIC TEMPERATURE CONTROL SYSTEM

### Read these special hints first.

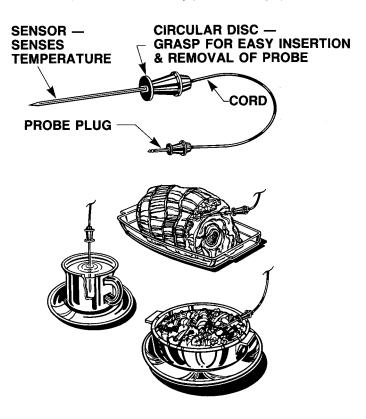
Use the automatic temperature control system to cook foods, especially meats, to a precise temperature. It can also be used for heating leftovers, warming soups and beverages and many other tasks. And you can hold a casserole, fondue, meat or almost any other food at serving temerature for even the latest of the late arrivals.

- Do not use the temperature probe to cook candies.
   The highest temperature sensed by the probe is 195° F, while most candies require a temperature of 230° F or higher.
- Insert the temperature probe as shown at right.
   Meats Insert probe sensor tip in the thickest lean section, halfway between the center and the exterior, but away from fat and bone.

Casseroles, Leftovers, Beverages — Insert probe sensor tip in center, without touching bottom or sides.

- Be sure probe is securely inserted into food. If the probe accidentally falls out of food, air temperature will be sensed and food will not cook properly. The probe could become damaged.
- Do not use the probe with foil or other metal. Arcing could result. If the recipe suggests using foil, do not use the probe.
- 5. Do not operate the oven if probe is caught in oven
- Do not use the automatic temperature control system when cooking different foods at the same time. Different foods cook at different speeds, and the results may be unsatisfactory.
- Do not force the temperature probe into frozen food.
   The sensor tip could be damaged or the probe could break.
- Use a hot pad to remove the hot temperature probe.
   During cooking, the probe could become hot enough to burn you.

- Always remove the probe after use. Do not store it in the oven. Keep it in a place where it won't become lost or damaged.
- Wash the probe with hot, soapy water. Do not immerse the probe plug in water nor wash in an automatic dishwasher. Rinse and dry probe thoroughly.



# TRY IT! COOKING TO TEMPERATURE/

**Note:** The Temperature-Hold feature is designed to operate when the end temperature is 140° F or above. Food such as cooked meat, poultry or fish should be held at 140° F or above to prevent the growth of bacteria or the production of toxins.

- 1. Read the rules and hints above.
- 2. Place food in oven.
- Insert temperature probe into receptacle located in the right oven interior wall near the back. The display will show the actual food temperature and "F COOK LEVEL".
- 4. Insert the probe tip into food and close oven door.
- 5. Press STOP/RESET.
- 6. Turn the TIME/TEMPERATURE DIAL clockwise until the desired temperature appears in the display. The display may return to the actual temperature of the food. The probe's temperature sensing range is 100° F to 195° F. The temperature setting can be increased or decreased in 5° increments by turning the dial clockwise or counterclockwise, respectively.
- 7. If less than full microwave power is desired, turn the COOKMATIC POWER LEVEL DIAL counterclockwise to the appropriate cook level.

- 8. Press **START/COOK** and the oven will operate. (You don't program any cooking time, because the oven will cook by temperature only.) The display will show the actual temperature of the food and show "TEMP", indicating that the oven is cooking to temperature.
- To see the set temperature while the oven is cooking, turn the TIME/TEMPERATURE DIAL either way. The set temperature will be displayed for a few seconds, then the actual temperature will reappear.
- 10. When a set temperature is reached, the oven will sound a signal. If the set temperature is 100° F to 135° F, the oven will automatically stop when the temperature is reached. AUTOMATIC HOLD If the set temperature is 140° F or higher, the oven will automatically "hold" food at that temperature for 60 minutes, or until you

press **STOP/RESET**. If you stop the oven during the hold period, the timing of the 60 minutes will begin again.

11. When cooking has finished press STOP/RESET.
Remove temperature probe from oven to return the display to the time of day.

### MAINTENANCE — CLEANING THE OVEN

### To Clean The Oven and Door Interior

If the inside walls, floor, door and splatter shield at the top of the oven should 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 in the oven to loosen soil before cleaning. After boiling the water, allow the water vapor to settle on the oven walls and soften the soil for several minutes before you open the door.

Do not use an abrasive to clean the inside. It might damage the finish. Never pour water into the bottom of the oven.

#### The Splatter Shield Inside Oven

The splatter shield keeps the top of the oven and antenna from getting dirty. Normally, a damp cloth will remove any splatter from the shield. However, if you want to clean it more thoroughly, remove the splatter shield. Be careful not to bend the antenna when removing the splatter shield. The shield snaps into a lip in the front of the oven and three slots in the back. Place your thumbs in the two indentations in the front of the shield. Press lightly towards the back and carefully lower the shield away from the antenna. Pull the shield out of the

back slots and out of the oven.

Wash the shield in hot soapy water. Do not wash in a dishwasher. Do not use harsh or abrasive cleansers. When replacing, again be careful not to bend the antenna. To replace, fit shield tabs into the three slots at the top of the back. Lift front until shield snaps into place.

To check antenna operation, place a glass or cup of water in the unit, close the door and start the unit. A rotating shadow should be visible above the splatter shield.

To Clean the Temperature Probe, wash the metal probe in hot, soapy water. Do not immerse the probe or wires in water. Do not wash in a dishwasher.

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 along the discharge louvers in the back of the oven on the right hand side. Clean the air vent with a damp cloth.

### HOW TO CHANGE THE OVEN LIGHT



To remove bulb, turn it in the direction shown.

The lightbulb for the inside of the oven can be changed only from the back. On the upper left hand side of the oven back is a metal plate with one screw. The lightbulb is located behind this plate.

Follow these steps to change the bulb:

a. Unplug the oven from the electrical outlet.

- Facing the oven back, remove the screw and remove the plate.
- To remove the bulb, turn it counterclockwise, being careful not to burn fingers or break the bulb.
- d. Replace the bulb with a 40 watt, 115-125 volt appliance bulb, which can be purchased at grocery or hardware stores. To replace bulb, turn it clockwise.
- Reposition the plate, being careful not to bend the hinge tab. Replace and tighten the screw. Do not operate oven without having plate in place.
- f. Connect the oven to power outlet.

### **BEFORE YOU CALL FOR SERVICE:**

Be sure you have read and followed the operating instructions. Avoid unnecessary service calls. The space-age, electronic control module used in this microwave oven is the finest in versatility, quality and reliability. In many cases, a customer call for module timer service is caused by conditions other than failure of the controls. That's why you should read the following before calling for service.



NOTE: A Power Interruption Signal (dash lines) will appear in the display whenever the oven is initially plugged into an electrical outlet. The lines will also appear whenever electrical power to the oven has been interrupted and then restored. When you see these lines, simply reset the clock. IF THE READOUT DISPLAY DOESN'T LIGHT UP, PLEASE CHECK:

- Is the oven plugged securely into the proper power outlet?
- Is a fuse blown or circuit breaker open?
- If the condition remains unchanged, perform the steps listed in the box on the next page.

#### IF THE READOUT APPEARS WRONG:

- Did you remember to press STOP/RESET before programming the oven?
- Have you (or someone else) pressed the controls after cooking started?
- If the condition remains unchanged, perform the steps listed in the box on the next page.

# IF THE CONTROL WILL NOT ACCEPT YOUR INSTRUCTIONS:

- For cooking to temperature, did "TEMP" light up when you connected the temperature probe? If not, check to see if the probe jack is securely inserted into the oven receptacle. (Review explanation, page 6.)
- For cooking by time, if the condition remains unchanged, perform the steps listed in the box on the next page.

## IF ANOTHER FEATURE DOESN'T APPEAR TO BE OPERATING CORRECTLY:

- Have you followed the use and care instructions exactly? Review them to be sure.
- Did you press STOP/RESET twice before programming the oven?
- Is the oven plugged into a properly grounded and polarized outlet as described in the grounding instructions (page 2)? Improper installation can result in erratic operation.
- If the condition remains unchanged, perform the steps listed in the box below.

### IF MICROWAVE POWER WON'T COME ON:

- Did you press **START/COOK**?
- Is the oven door securely closed?
- If the condition remains unchanged, perform the steps listed in the box below.

### IF THE OVEN LIGHT PULSES DIMMER, THEN BRIGHTER:

• Is the line voltage to your home low or lower than usual? (The power company in your area should be

If condition remains unchanged, please perform the following steps:

- 1. Check to see if a fuse or circuit breaker is open.
- 2. Unplug the oven.
- Reconnect the oven to the wall outlet. Dash lines will appear in the display.
- 4. Set the clock. (Dash lines will disappear.)

YOUR OVEN MUST BE ON A GROUNDED, POLARIZED CIRCUIT.

### able to tell you if there is low voltage to your home.)

# IF ROOM LIGHTS DIM OR PULSE DIMMER, THEN BRIGHTER WHEN THE OVEN IS IN USE:

 Is the microwave oven on a separate circuit? (Review grounding instructions on page 2.)

## IF THE TEMPERATURE PROBE APPEARS NOT TO FUNCTION CORRECTLY:

- Is the probe jack securely inserted into the receptacle?
   This tells the oven that it is about to be set to cook to temperature.
- Is the food you're attempting to heat already hotter than the temperature you're programming?
- Is the food completely defrosted?
- Has the probe been accidentally left in the oven when cooking by a method other than temperature cooking?
   The probe could be destroyed by leaving it in the oven when cooking by a method other than temperature cooking.

### IF FOOD IS OVERCOOKED:

 Did you remember to program the correct cooking power level? (Review instructions, page 5.)

### IF FOOD IS UNDERCOOKED:

- Are there other energy-consuming appliances on the same circuit as the microwave oven? (Review grounding instructions, page 2.)
- 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 low voltage to your home.)
- Did you remember to program the correct cooking power level? (Review instructions, page 5.)

### 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 authorized Amana Service Center.) Help them give you prompt service by providing:

- 1. An accurate description of the trouble.
- 2. Complete model and serial numbers. (See front cover)
- 3. Date of installation. (We also suggest you retain your sales receipt.)

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.