

# Model RS-20\* 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.
2. Read and follow the specific "PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY" found on page 3.
3. This appliance must be grounded. Connect only to properly grounded outlet. See "GROUNDING INSTRUCTIONS" 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.
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 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

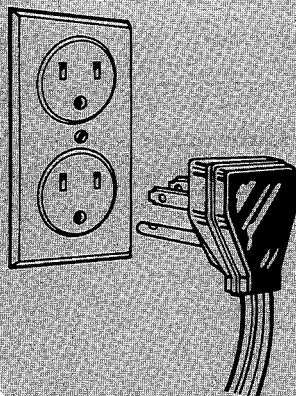
## UNPACKING THE OVEN

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 locate the oven with the sides, top or bottom airflow restricted. The oven must have sufficient airflow around it.

## GROUNDING INSTRUCTIONS



ENSURE PROPER GROUND  
CONTACTS 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 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.

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

## PRECAUTIONS

- (a) **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.
- (b) **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.
- (c) **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.
- (d) **Deep fat frying** must not be done in any microwave oven. The fat could overheat and be hazardous to handle.
- (e) **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.
- (f) **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.
- (g) **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.
- (h) **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.
- (i) **Newspapers** must never be used in a microwave oven since they may ignite.
- (j) **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. Check operation of the interlock switch systems. The **START BUTTON** turns the oven on. Microwave energy is generated only when the door is closed, cooking time has been set, the **COOKING POWER CONTROL DIAL** has been set on **FULL POWER, SLO COOK** or **DEFROST**, and the **START BUTTON** has been pushed. In addition, the oven has interlock switches to assure that no microwave energy is generated when the door is opened during cooking. To check or remove food before the cooking time has elapsed, open the oven door. When the door is opened, hidden interlock switches sense the motion of the door and automatically turn the oven off. Here

is how you may check the operation of the **START BUTTON**:

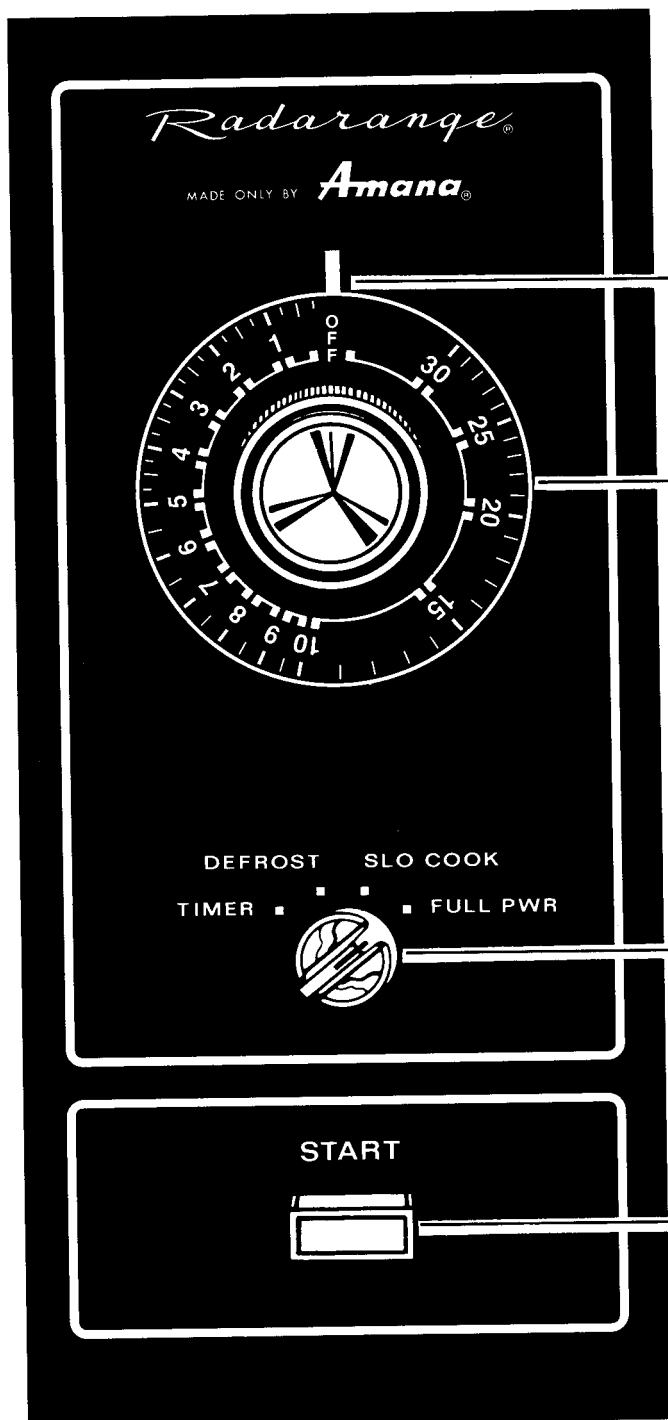
1. Place a glass of water in oven and close oven door.
2. Turn the **TIMER DIAL** clockwise.
3. Push the **START BUTTON**. The oven should operate, the **TIMER DIAL** should turn counterclockwise and the oven light should come on.
4. Open the oven door. The oven should shut off immediately, the **TIMER DIAL** should stop and the sound of the motor should cease. The oven light should go out.



5. Close the oven door and push the **START BUTTON**. The oven should operate and the **TIMER DIAL** should resume turning counterclockwise from where it stopped. The oven light should come on again.
6. Open the oven door and remove the glass of water. All oven functions should cease.

7. Turn the **TIMER DIAL** counterclockwise until it clicks "off".
- B. **Oven Light**  
The oven light will come on when the oven is operating and when using the **TIMER**.

## THE CONTROL PANEL



**TIMER SETTING MARK** — Aids in precise setting of time. Align desired timer mark on the **TIMER DIAL** with this mark.

**TIMER DIAL** — Turn clockwise to select from 1 minute to 30 minutes of cooking time. The dial is calibrated as follows:

- Numbers represent minutes of cooking time.
- "1" to "5" — The three small marks between the numbers represent 15 seconds each. (For example, to cook for 4 minutes 15 seconds, turn the **TIMER DIAL** so the first mark between "4" and "5" is aligned with the **TIMER SETTING MARK**.)
- "5" to "10" — The single mark between numbers represents 30 seconds. (For example, to cook for 7 minutes 30 seconds, turn the **TIMER DIAL** to the mark between "7" and "8".)
- "10" to "30" — Each mark represents 1 minute. (For example, to cook for 12 minutes, turn the **TIMER DIAL** to the second mark past "10".)
- The last mark (at the right of "OFF") is the setting for 30 minutes. To cook longer, reset the **TIMER DIAL** for the additional time required after the first 30 minutes have elapsed, then start the oven again.

**COOKING POWER CONTROL DIAL** — Turn in either direction to select the cooking power setting desired, or to set the kitchen timer (**TIMER**).

**START BUTTON** — Push to start cooking. You must select time on **TIMER DIAL** before pushing this button.

## 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!

1. Place food in oven and close oven door. When using the oven, always have food or water inside to absorb microwave energy.
2. Turn the **TIMER DIAL** clockwise to set cooking time (to cook 1 minute 15 seconds, turn dial so the first mark after "1" is aligned with the **TIMER SETTING MARK**.)

## TRY IT! USING THE TIMER

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

1. Close oven door.
2. Turn the **COOKING POWER CONTROL DIAL** to the **TIMER** setting.
3. Turn the **TIMER DIAL** to the time desired.
4. Push the **START BUTTON**. The oven blower and oven light will come on, the **TIMER DIAL** will move counterclockwise as time elapses, but the oven will not cook. You can estimate the amount of time remaining

3. Push the **START BUTTON** and the oven will begin operating. The **TIMER DIAL** will move counterclockwise as the time elapses. You can estimate the amount of remaining cooking time by looking at the setting directly behind the **TIMER SETTING MARK**.
4. The oven will stop and sound a signal at the end of cooking time.

by looking at the setting directly behind the **TIMER SETTING MARK**.

5. A signal will sound when the time has elapsed.

**NOTE:** When the oven is set to use the timer, the **COOKING POWER CONTROL DIAL** should not be changed from the **TIMER** position. This prevents the oven from generating any microwave energy when it is operating as a timer. Remember, do not attempt to cook when the oven is empty.

## TRY IT! SLO COOKING

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 three cooking power levels, each well-suited for different types of foods. The oven produces these power levels by cycling microwave power on and off at various time intervals. If a recipe in the cookbook that came with your oven is designed to be cooked at a lower power level, the recipe may tell you to use either the **SLO COOK** or **DEFROST** cycle. Consult "3-Power Level Oven Conversion Chart" and "Guidelines for Using Oven with 3 Power Level Settings" in the cookbook. Other foods should be cooked at **FULL POWER**, following the recipe cooking times and other instructions exactly as written.

1. Place food or water in oven and close oven door.
2. Turn the **TIMER DIAL** to the time desired.
3. Turn the **COOKING POWER CONTROL DIAL** to **SLO COOK**.
4. Push the **START BUTTON** and the oven will operate. Microwave power will cycle on for approximately 60% of the cooking time. Electric ranges operate similarly, cycling electric energy on and off to maintain a slower cooking speed.

## TRY IT! DEFROSTING

Most frozen food can be defrosted quickly by using the **DEFROST** cycle. Microwave power is pulsed on and off automatically. During the "on" periods (approximately 20% of the time set on the **TIMER DIAL**) the exterior of the food is heated. During the "off" periods (approximately 80% of the time set on the **TIMER DIAL**), the heat is conducted to the interior of the food, allowing uniform defrosting with little or no cooking on the exterior.

1. Place frozen food in oven and close oven door. If food is inside a plastic bag, slit the bag to allow steam to escape.
2. Turn the **TIMER DIAL** to the time desired. Start

with the shortest amount of time and increase only if needed.

3. Turn the **COOKING POWER CONTROL DIAL** to **DEFROST**.
4. Push the **START BUTTON** and the oven will operate.
5. The oven will stop and sound a signal at the end of defrosting time.
6. If additional defrosting is necessary, set the **TIMER DIAL** accordingly and push the **START BUTTON**.

\* Per 1-liter test.

## 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.

### To Clean 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 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:

- 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.
- 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. Tighten the screw. Do not operate oven without having plate in place.
- 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.

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

- Have you followed the use and care instructions exactly? Review them to be sure.
- 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 on this page.

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

- Did you press the **START BUTTON**?
- Is the oven door securely closed?
- If the condition remains unchanged, perform the steps listed in the box on this page.

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

If condition remains unchanged, please perform the following step:

- Check to see if a fuse or circuit breaker is open.

**YOUR OVEN MUST BE ON A GROUNDED, POLARIZED CIRCUIT.**

**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 FOOD IS OVERCOOKED:

- Did you set the correct cooking time? (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 select the correct cooking power level? (Review instructions, page 5.)