

# Touchmatic II

**Amana**<sup>®</sup>

**TOUCHMATIC II**<sup>™</sup>

*Radarange*<sup>®</sup>  
MICROWAVE OVEN

## Model RR-10 Series Use & Care Manual

A Mini Cooking School – to be completed at your convenience and in the privacy of your own home.

Read this manual carefully before installing and operating your new Radarange Oven. Store this manual in the specially designed pocket inside the front cover of your Amana cookbook.



Dear Radarange Oven Owner:

Welcome to the world of microwave cooking! We're sure you'll be pleased with your new Amana Touchmatic II Radarange Oven. You'll find it to be one of the best time and energy-saving appliances you'll ever own.

To be sure you get the full benefit from your Radarange Oven, please read the **Use and Care Manual** and introductory chapter of your Amana cookbook thoroughly.

In over ten years of working with microwave oven owners we've found cooking schools to be one of the best ways of learning to use a microwave oven to its best advantage. But not everyone has the opportunity to enroll in a cooking school. Many of us are employed or busy with many activities inside and outside our homes. Plus cooking schools may not always be available in the area in which you live. Therefore in this **Use and Care Manual** and the cookbook, we're bringing the cooking school to you.

Your **Use and Care Manual** is written in seven "sessions". Each session is designed to require less than one hour of your time. Each session "builds" on what you've learned in previous sessions. So set aside time each day for the first week or two you have your oven to complete the sessions and practice what you've learned. By completing each of the seven sessions you'll learn to use all the features of your microwave oven. Learn to use **all** the features to get the most benefit from your investment. The extra time you spend learning to operate your oven now will be well worthwhile.

If you have any questions, please write to me.

Sincerely,

*Ann MacGregor*

Ann MacGregor  
Home Economics Department  
Amana Refrigeration, Inc.

**Radarange**  
MICROWAVE OVEN

Record in space below the Model No., Manufacturing (MFG) No. and Serial No. recorded on the nameplate of your range. The nameplate is located on the back of the unit.

Model No. \_\_\_\_\_

MFG No. \_\_\_\_\_

Serial No. \_\_\_\_\_

Date Installed \_\_\_\_\_

Retain these numbers for future reference. We also suggest you retain your Sales Receipt.

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## Installing and Learning the Correct Use of Your Microwave Oven

In this session you'll install your microwave oven, learn how to set the clock and learn the rules and precautions for using the Radarange Oven.

Installation — Follow these easy steps:

1. Unpack and visually check the unit. After the oven is uncrated, all packing material must be removed from the oven cavity.

Inspect the oven for any damage such as damaged gasketing around the door, 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 and the delivering carrier immediately. Your Amana Dealer will tell you if the unit will operate correctly.

2. On the back of the oven is a metal serial plate. Record the model number, manufacturing number and serial number stamped on the plate in the space provided on page 1 of this book.

We suggest you also retain for future reference your Sales Receipt, or any document prepared by your selling dealer, which states model number, manufacturing number, serial number and purchase or delivery date.

3. Complete the warranty registration. Included with the packet that comes with the oven is a punched registration card.

**This must be filled out and returned to Amana Refrigeration, Inc., Amana, Iowa 52203. Federal regulations require that all manufacturers of microwave ovens have a permanent record of the owners of each oven.**

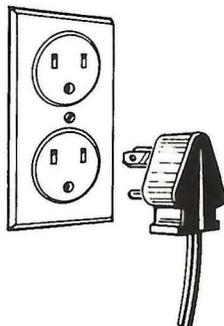
4. Connect your oven to the proper power source. Most Model RR-10 Series Radarange Ovens are designed to operate on 120 volt, 60 HZ current only. However, ovens that have the letters "ET" as part of the model number are factory-set to operate on the 120 volt, 50 HZ current used outside the United States. Owners of the "ET" type model **must** have an authorized Amana servicer convert the oven before operating it on the 120 volt, 60 HZ current that is standard in the United States and some other countries. Your oven should be plugged directly into a 15 amp circuit that does not have any other appliances or lights on it. If a microwave oven is on a circuit with other appliances, cooking times can be increased and fuses can be blown.

This appliance is equipped with a three-prong (grounding) plug for your protection against possible shock hazards. Where a two-prong wall receptacle is encountered, it is the personal responsibility and obligation of the customer to contact a qualified electrician and have it replaced with a properly grounded and polarized three-prong wall receptacle in accordance with the National Electrical Code.

**Do not use an extension cord.**

**Do not use a two-prong adaptor.**

**Do not under any circumstances cut or remove the round grounding prong from this plug.**



The unit must be grounded at all times. If you move the oven from area to area, the receptacle you use must be fully grounded and polarized.

Do not build the oven in with the sides, top or bottom air flow restricted. The oven must have sufficient air flow around it. If you wish to build in the Radarange Oven, an optional (at extra cost) built-in kit can be ordered through your Amana dealer.

#### 5. Read and follow these Rules for Safe Operation

The Amana Radarange Oven is designed to be **safe** and **reliable**. Now we ask you to do your part. As with all appliances, there are certain rules to follow, some that apply to **all** microwave ovens and some which are unique. Make sure everyone who cooks is familiar with this product's operation and with these precautions.

#### A. PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- 1) 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.
- 2) Do not place any object between the oven front face and the door or allow soil or cleaner residue to accumulate on sealing surfaces.
- 3) 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.
- 4) The oven should not be adjusted or repaired by anyone except properly qualified personnel.

#### B. Precautions regarding **specific types of foods, etc.**

- 1) **Eggs** should not be cooked or reheated in the shell. Eggs should not be cooked 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.

- 2) **Potatoes, tomatoes, or other foods with a "skin"** should only be cooked in the microwave oven after the skin has been pierced. You should be sure that all foods with an outer skin or membrane are pierced to allow steam to escape during cooking.
- 3) **Ordinary popcorn** should only be popped in the Radarange Microwave Oven in the specially designed Radarange Microwave Popcorn Popper. Special popcorn in bags designed and labeled for **microwave only** may also be used.
- 4) **Liquids** should be briskly stirred or poured (to mix in air) before being heated in a microwave oven. If air is not mixed into a liquid, it can erupt in the oven or when removed.
- 5) **Home canning** should 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.

### C. Precautions regarding **utensils**

- 1) **Containers with restricted openings** such as baby food jars and syrup bottles should not be used for cooking. Food or liquid could expand quickly and cause the container to break.
- 2) **Regular cooking thermometers** should not be used in the Radarange oven. Most cooking thermometers contain mercury and may cause "arcing", malfunction, and/or damage to the oven.
- 3) **Plastic bags (and other air-tight containers)** should always be pierced or opened before heating in a microwave oven. This is needed to allow steam to escape during cooking.
- 4) **Metal cookware** is not recommended for use in the microwave oven. Do not wrap food in aluminum foil except when recommended in the recipe (as poultry). The use of metal cookware, "TV" dinner trays or foil will increase cooking time and decrease energy efficiency. It usually causes uneven cooking and can cause "arcing". Also, with extended use, metal cookware could damage the magnetron tube of any microwave oven designed for home use.
- 5) **Newspapers** should never be placed in a microwave oven. Some types of printers' ink can absorb microwave energy and could cause the paper to ignite.
- 6) **Paper towels** which contain nylon or other synthetic fibers woven through them should not be used because the heated synthetics could cause the paper to ignite.

### D. Precautions regarding **specific features**

- 1) The **temperature probe** should always be stored outside the oven when not in use.
- 2) The **temperature probe** must always be securely inserted into food. If the probe should fall out, it will sense air temperature and the food will overcook.
- 3) The **temperature probe plug** should not be immersed in water for cleaning, and should not be washed in a dishwasher.
- 4) When both the **Temp Control** and **Hold** features on your Radarange Oven are used, you should always select a temperature of 140°F or above to prevent the growth of bacteria and toxins.
- 5) When using the **Start Time** feature on your Radarange Oven, do not hold foods longer than three (3) hours unless the food is frozen when placed in the oven. Foods which are highly perishable (e.g. milk, eggs, fish, stuffing) should not be held for use with the automatic start time feature. This precaution is to prevent the growth of bacteria and toxins.
- 6) When using the **Start Time** feature on your Radarange Oven, be very careful that the correct cooking sequence is programmed. If

mistakenly programmed to cook at too high power for too long a time in an unattended home, there is a remote chance a fire could occur inside the oven.

- 7) When using the **Start Time** feature on your Radarange Oven, caution children and others in the home **not** to touch the control panel after it is programmed. If several pads are touched there is a possibility the cooking instructions could be altered.
- 8) Always touch the  pad twice before programming the oven.

#### E. Precautions about **general use**

- 1) **Extreme overcooking**, as in conventional cooking, can cause food to smoke or possibly ignite. In the rare event this happens, push the  switch, keep the oven door closed and the fire will self extinguish.
- 2) We do not recommend **operating the oven when it is empty**. Microwave energy can damage the magnetron tube if the oven is operated empty for an extended period of time.
- 3) **Food and cookware** should not be rested on the oven door. It could misalign the door.
- 4) **Water** should never be poured into the bottom of the oven.
- 5) **Do not remove the outer case, door or control panel at any time**. Doing so would expose you to extremely high voltage. **All service and repair should be performed by a qualified service technician.**
- 6) **Do not leave the oven unattended when drying anything**. Foods, or other items, can become too dry and can ignite. If anything does ignite, press the  switch. **Do not open the door** until after the fire stops.

#### 6. Check to be sure the light works.

Locate this switch on the bottom right hand corner of your Radarange Oven:



This switch turns the interior light "on" and "off" when the oven door is closed. (The interior light will always be on when the oven door is open.) **Close the door. Push the switch to turn the light on. Push again to turn it off.**

#### 7. Check operation of the latch and interlock switch systems.

The Radarange Oven contains latch and interlock switches to assure no microwave energy is generated when the oven door is open.

When the door is closed, the control panel programmed, and the start switch pushed, a latch automatically locks the door before microwave energy is generated. As long as the oven is cooking (with time left on the timer and the start switch pushed) the door is latched. In addition,

hidden back-up interlocks sense motion of the door if it is opened, and automatically turn the oven off.

Here is how you may check the operation of the latch:

A. **Put a glass of water in the Radarange Oven.**

B. **Locate these switches on the Radarange Oven:**



C. **Touch 5, then 0.**

D. **Push the START switch.** The oven should now be operating and the latch should be engaged.

E. **Push the STOP switch.** The oven should shut off immediately. The sound of the motor should cease. The latch should now be disengaged and the door should open freely.

F. **Open the door fully.** The light should come on when the door is opened.

G. **Touch CHANGES CANCEL twice.**

If under any of the preceding conditions the oven does not operate as stated, do not use it. Call your Amana dealer or authorized servicier.

## 8. Set the Clock.

To set the time of day:

A. **Enter the time of day by touching the numbers in sequence.**

For example, if it is 10:35 (a.m. or p.m.), touch the number pads in sequence beginning with the 1, then the 0, followed by the 3 and ending with the 5.

B. **Touch CLOCK twice.** The clock is now set.

If the power to the oven is interrupted (for example if the oven is unplugged or if there is a power failure) the time of day will be erased. To reset the correct time of day, repeat steps "A" and "B" above.

## Summary — To Set the Clock

1) **Touch numbers in sequence; for 10:35, touch:**



2) **Touch CLOCK twice.**

Your Radarange Oven is now ready to use and you're familiar with the basic precautions for its safe use. In Session #2 you'll read the introductory chapter of your Amana cookbook.

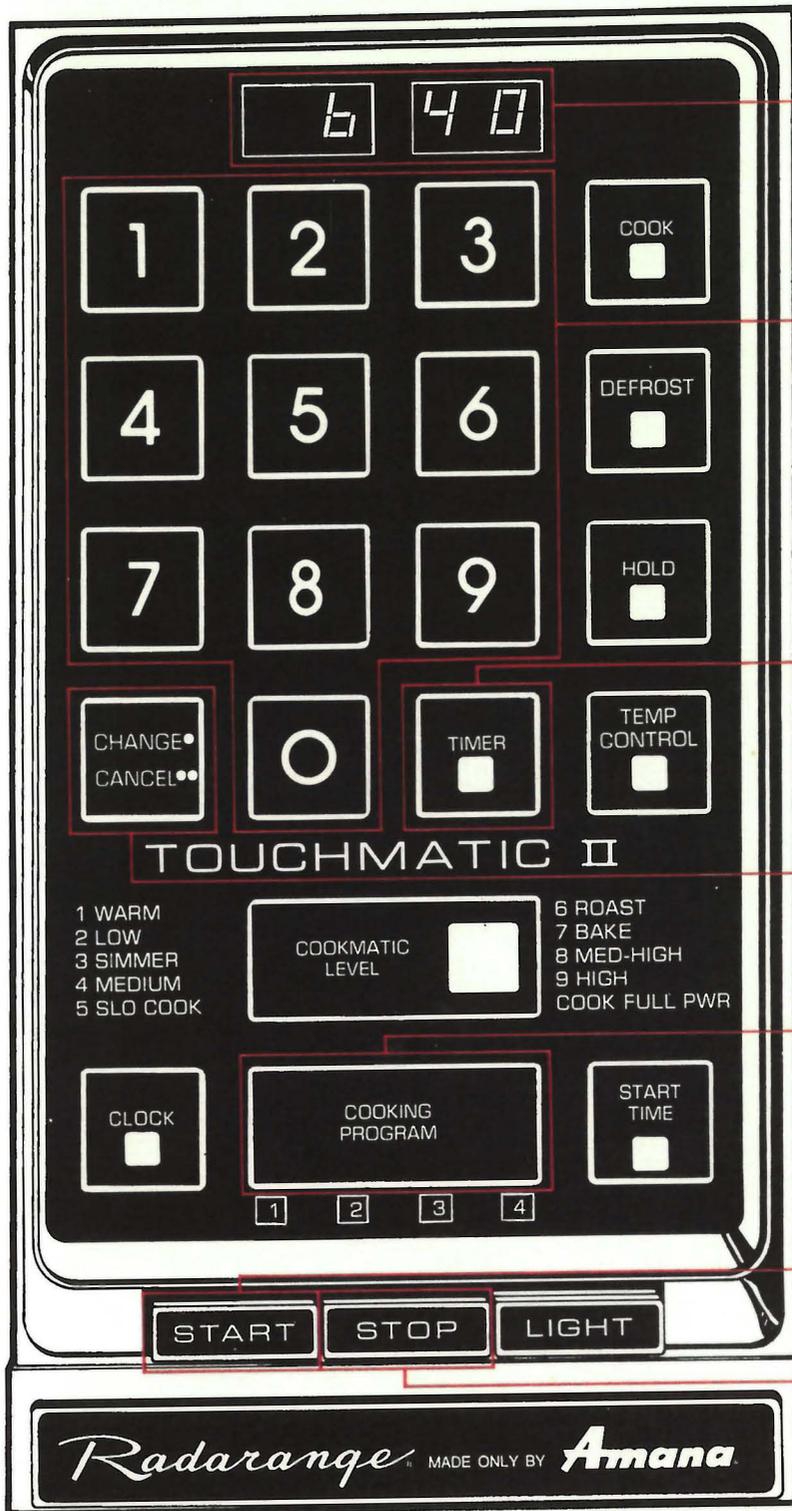
# Session 2

Read "Introduction to Radarange Cooking", the first section of your Amana cookbook. In reading this chapter you'll learn:

- how to use the cookbook
- the meanings of microwave cooking terms
- types of accessories and utensils recommended for use in your microwave oven
- many microwave cooking techniques
- how to adapt your favorite conventional recipes for the microwave oven.



# Session 3



# Quick Cooking With Full Microwave Power/ How to Use the Timer

The control panel on your Radarange Microwave Oven looks like the picture at left. In this session you'll only use the touch pads outlined.

**READOUT DISPLAY** — Normally shows time of day.

- When cooking with time, it shows remaining cooking time.
- When cooking with temperature, it shows set temperature and actual temperature.
- When using timer, shows time remaining.

**NUMBERS** — Used to program everything into the Touchmatic Control. They're arranged just like a touch-type telephone.

**TIMER** — Pad is touched when you want to use the timer. The timer can even be used when the microwave oven is cooking something else.

**CHANGE/CANCEL** — Used to change the instructions given to the Touchmatic Control. To change only a time entry, touch this pad once. To cancel everything you've programmed, touch it **twice**.

**COOKING PROGRAM** —

- Touch after  to return readout display to what's happening right now.
- It is also used to program 2, 3, or 4 cooking programs (as you'll learn in Session #6).

**START SWITCH** — Pushed to start cooking operation. You must program cooking time before pushing start switch.

**STOP SWITCH** — Pushed any time you want to stop cooking. When

there is time remaining on the cooking timer, you must push  switch before door can be opened.

At some time while you're learning to use your Radarange Oven you may make a programming mistake. If you do make a mistake, or are confused about what you've done — it's easy to get back on the right track.

— If the oven isn't operating yet — Touch  **twice**.

This will cancel all the instructions you've given the oven and you can start again.

— If the oven is operating — Touch  then .

Touching these pads tells the Touchmatic Control you want to know what's happening inside the oven **right now**. If the oven appears to be doing something other than what you intended, push the

 switch, then touch  **twice**.

This will erase everything you've set the oven to do and you can start again.

## TRY IT! Cooking with Full Microwave Power

Cooking with Full Power is the fastest and easiest way to cook in a microwave oven. When at Full Power your Radarange Oven will provide approximately 700 watts\* of cooking power. It's **very** fast!

- A. **Put a cup or glass of water in the Radarange Oven.** This is to absorb the microwaves as you experiment with the controls. When there is no food, water or other "load" to absorb the microwave energy, it could damage parts of the microwave oven.
- B. **Touch the  pad twice.** Touching the pad twice causes it to cancel everything it has been told except the time of day. Always touch the  pad twice before programming the Touchmatic Control. This will cancel any "leftover" instructions from previous cooking or which might have been accidentally programmed by curious children.
- C. To heat the water 50 seconds with full microwave power.

1. Touch , then .

2. Push the  switch. The readout will display 50 in the window. This signifies 50 seconds.

- Notice the readout counts down from 50 to 1, telling you the amount of cooking time remaining.
- A red light will be on behind the "1" below the  pad.

The oven automatically cooks in program 1 unless instructed to do differently. In session #6 you'll learn to use the other programs.

- Also notice that a red light will be on in the middle of the

 pad. The light tells you what the microwave oven is programmed to do — cook.

- When the 50 seconds cooking time is finished, an audible signal will be heard, the oven will turn off and the door will be automatically unlatched.

D. To heat the water for 1 minute 30 seconds:

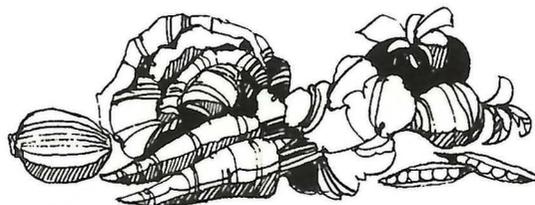
1. Touch **CHANGE CANCEL** twice.
2. Touch **1**, then **3**, then **0**. The readout will be 130, signifying 1 minute 30 seconds.
3. Push the **START** switch.
4. Watch the readout "count down". Notice that the readout following 100 is 59. Remember — the last two digits of the readout mean seconds; the previous digits mean minutes. Since there are 60 seconds in a minute, the number that follows 100 (1 minute, 0 seconds) is 59, which stands for 59 seconds.

Again, notice that a red light in the middle of the **COOK** pad tells you the microwave oven is programmed to cook.

5. As the readout is "counting down", push the **STOP** switch. Notice that when you stop the oven in the middle of what you're doing, it automatically "locks" the instructions in place.
6. Push the **START** switch again. When you push the start switch the oven automatically starts cooking from where you interrupted it.
7. If you don't want to finish the cooking, you can push the **STOP** switch, then touch **CHANGE CANCEL** twice to return to time of day.

## Summary — To Cook With Full Power

1. Touch **CHANGE CANCEL** twice.
2. Touch cooking time (to cook 6 minutes 10 seconds — touch **6 1 0**).
3. Push **START** switch.



## TRY IT! Changing a Time Entry

Occasionally you may make a mistake when entering a cooking time in the Touchmatic Control. If you do, the entry can easily be changed.

Suppose you want to cook with full microwave power for 30 seconds but accidentally program it for 50 seconds.

A. Put a cup or glass of cool water in the Radarange Oven.

B. Touch  twice.

C. Touch , then .

D. To change the entry —

1. Touch  once. The readout will go blank.

2. To enter the correct cooking time, touch , then .

E. Push  switch.

## Summary — To Change a Time Entry

1. Touch  once.

2. Reprogram correct entry.



## TRY IT! Using the Timer

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You may often want to use the Touchmatic Control like a regular timer (for timing mixing, steeping, or even phone calls!)

To time 30 seconds:

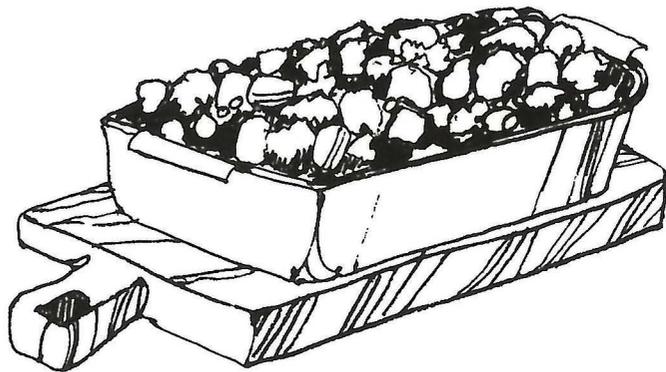
- A. Touch  twice.
- B. Touch the , then the .
- C. Touch the  pad. Note: You **don't** push the start switch. The start switch is used **only** when you want to cook in the microwave oven.

Notice the red light in the middle of the  pad. When the red light is on you know the timer is in use.

- D. When the 30 seconds is up, a signal will sound.

## Summary — To Use Timer

1. Touch time desired (to time 45 seconds touch  ).
2. Touch .



## TRY IT! Using Timer While Cooking

Sometimes you may want to use the Touchmatic timer while you're already cooking something in the Radarange Oven. You can! For example, while baking a cake in the Radarange Oven you can time mixing of ingredients for a cake topping or glaze.

To try this feature, assume you want to time 30 seconds while cooking for one minute.

A. **Place a glass of water in the Radarange Oven.** (Remember the rule from Session #1 — if you're reheating a liquid, be sure to pour or stir it first to mix in air.)

B. Touch  twice.

C. Touch , then , then  again.

D. **Push**  switch. The readout will "count down" from 1 minute as the water is heated. Notice the red light is on in the middle of the  pad, indicating the oven is programmed to cook.

E. Touch , then .

F. **Touch**  pad. The readout will now "count down" from 30 to 1 and a signal will sound when the 30 seconds is up.

Notice that now red lights are on in both the  pad and the  pad, indicating the oven is programmed to cook **and** time.

G. After the timer sounds, the display will then "count down" the remaining cooking time.

H. You may want to check the cooking time remaining before the timer has expired. If you do want to switch the readout back to the count

down of cooking time, you just touch , then . The readout will then countdown remaining cooking time and the audible signal will sound twice — once when the timer expires and once when the cooking time is completed.

## Summary — To Use Timer While Cooking

1. Touch time desired (to time 20 seconds touch  ).

2. Touch .

3. To return readout to ongoing cooking function before timer expires,

touch  then .

The timer on your Amana Radarange Oven can be changed — even while the oven is operating. For example, suppose you set the Touchmatic Control to time 60 seconds, started it, then decided you only want to time 10 seconds.

A. Touch **6** **0** then **TIMER**. Notice the timer immediately starts timing the 60 seconds and starts “counting down”.

B. Touch **1** **0** then **TIMER**. Notice the timer immediately quits timing the 60 seconds and starts “counting down” from 10 seconds.

## Summary — To Change Timer Setting

1. Touch new time desired (to time 20 seconds touch **2** **0**).
2. Touch **TIMER**.

In Session #3 you've learned how to cook with full microwave power, how to use the timer and how to change an entry if you ever make a mistake while programming the Touchmatic Control. We suggest you practice what you've learned in Session #3 before going on to Session #4. Select any recipe in the cookbook which uses only Full Power and Try It! A few things we'd suggest you try are:

### Breakfast

- Soften frozen orange juice
- Instant tea
- Instant coffee
- Frozen waffles
- Heat syrup
- Bacon
- Breakfast rolls

### Lunch

- Made-Right Mushroom Burgers
- Chili Dogs
- Chili Con Carne
- Soup (canned)
- Leftover Stew
- Reheat cookies

### Dinner

- Chicken Supreme
- Easy Barbecued Chicken
- French Fish Fillets
- Meat Ball Stew
- Tuna Oriental
- Frozen vegetables
- Dinner rolls
- Cherry Crisp
- Fruit-Flavor Gelatin

# 16 Session 4

## Cooking With Cookmatic Power Levels/ Defrosting

In this session you'll learn to cook with lower microwave power levels. You'll also learn how to use the defrost cycle. To do these things you'll use sections of the Touchmatic control you didn't use in Session #1 or #3. Locate these controls on your Radarange Oven:



**COOK PAD** — Used whenever the Radarange oven is programmed to cook a specific length of time **except** when doing quick cooking with Full Power (as you learned in Session #3).



**DEFROST PAD** — Used whenever the defrost cycle is desired.



**COOKMATIC LEVEL PAD** — Used to change the cooking power level.

### TRY IT! Cooking at Cookmatic Power Levels

Many foods cook very well at full microwave power (as you learned in Session #3). However, 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. Your Amana Radarange Microwave Oven has ten power levels to choose from. Each power level is particularly well suited for cooking different types of foods.

Each recipe in your Amana cookbook specifies the Cookmatic power level to be used for cooking. For example, hot chocolate is cooked at Cookmatic Level 8 (Medium High) for one minute 45 seconds. To heat a cup of hot chocolate:

- A. **Place a cup of chocolate milk (or a cup of cold water) in the Radarange Oven.**
- B. Touch  pad twice.
- C. Touch   .
- D. Touch  . Note: This step is different than cooking at Full Power, as you did in Session #1. The  pad **must** be touched before proceeding to the next step.
- E. Touch , then  . This tells the oven you want to use #8 Cookmatic Level (Medium High), which is 80% of full power.
- F. Push  switch. The oven will now heat the hot chocolate at Cookmatic Level 8 (Medium High). Notice the red light in the middle of

the **COOK** pad, indicating the oven is programmed to cook. Also

notice the "8" in the middle of the **COOKMATIC LEVEL** pad, confirming the oven is cooking at Cookmatic Level 8 (Medium High). A red light will

be on behind the "1" below the **COOKING PROGRAM** pad. The oven automatically cooks in Program 1 unless it is told to do differently. In Session #6 you'll learn to use the other cooking programs.

## Summary — To Cook With Cookmatic Power Levels

1. Touch cooking time (to cook 1 minute 45 seconds, touch **1**

**4** **5** ).

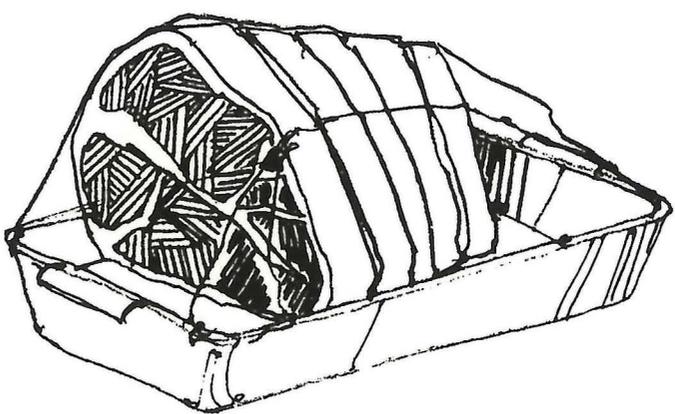
2. Touch **COOK** .

3. Touch Cookmatic Level number (to cook at Level 3 [Simmer] touch

**3** ).

4. Touch **COOKMATIC LEVEL** .

5. Push **START** switch.



## TRY IT! Changing Cookmatic Level During Cooking

Sometimes you may want to switch the Cookmatic power level as you're cooking. For example, if something is cooking too quickly or appears like it might boil over, you'll want to change the Cookmatic power level to a lower setting. With your Amana Radarange Oven you can change the power level instantly, without even stopping the oven.

A. Place a cup of hot tap water in the Radarange Oven.

B. Touch **3**, then **○**, then **○** again. This sets the Touchmatic Control to use three minutes.

C. Touch **COOK**. This programs the oven to cook.

D. Touch **9**, then **COOKMATIC LEVEL**. This programs the oven to use the #9 Cookmatic Level.

E. Push **LIGHT** switch, so you can see inside the oven.

F. Push **START** switch. Notice the red light in the middle of the **COOK** pad and the red "9" in the middle of the **COOKMATIC LEVEL** pad. These lights indicate the oven is cooking at Cookmatic Level 9. The water will start to boil during the three minutes. When it does, change the power level to a lower setting as follows:

1. Touch **2**, then **COOKMATIC LEVEL**. Notice a red "2" will now appear in the **COOKMATIC LEVEL** pad indicating the oven is cooking at Cookmatic Level 2. Watch the water — it will stop boiling but it will stay hot.

2. Touch **○**, **COOKMATIC LEVEL**. This changes the Cookmatic level to Full Power. The water will now start to boil. Remember — when no Cookmatic power level is programmed, the Touchmatic control assumes you want to cook at Full Power. Therefore, to change a Cookmatic level from a lower setting back to Full Power, you must set the oven for "0" Cookmatic Level.

3. A red light will be flashing behind the "1" below the Cooking Program pad. This indicates you are making a change or reviewing information in the Cooking Program. Touch **○**, then **COOKING PROGRAM**. The red light behind the "1" will stop flashing, but remain on.

# Summary — To Change Cookmatic Level While Cooking

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1. Touch new Cookmatic Level number (to cook at Cookmatic Level 3

[Simmer] touch ).

2. Touch



3. Touch



## TRY IT! Defrosting

Your Radarange Microwave Oven is designed to allow quick defrosting of frozen foods. Most foods are defrosted using the defrost cycle. The defrost cycle pulses microwave energy on and off automatically. During the "on" periods (approximately 30% of defrost time programmed) microwave energy is produced, heating the exterior of the frozen food. During the "off" periods the heat is conducted to the interior of the food. This allows the food to be evenly defrosted, with little or no cooking of the exterior before the interior is completely thawed.

Defrosting instructions for specific types of foods are provided at the beginning of appropriate chapters of your Amana cookbook. A 10-oz. package of frozen fruit is defrosted in 3½ to 4½ minutes.

- A. **Unwrap and place 10 oz. frozen fruit in a 1-quart covered casserole.** If the fruit is packaged in a plastic bag, merely slit the bag to allow steam to escape. (If you do not have frozen fruit on hand, place 2 ice cubes in a cup in the Radarange Oven.)
- B. **Place fruit or cup of ice in Radarange Oven.**
- C. Touch  twice to erase any previous instructions.
- D. Touch , then , then . This sets the control for three minutes 30 seconds of time. (Note: Start with the shortest amount of time and increase only if needed.)
- E. Touch .
- F. Push  switch. Notice the red light in the middle of the defrost pad. It indicates the oven is programmed to defrost the fruit. The microwave power is being pulsed on and off automatically.
- G. At the end of 3½ minutes, **remove the casserole from the Radarange Oven. Remove cover, and stir fruit.**
- H. If additional defrosting is necessary return fruit to oven, touch

  , then ; push  switch.

**Note:** Some frozen foods defrost better on one of the lower Cookmatic power levels. If defrosting with a Cookmatic power level is recommended, follow the directions for cooking with Cookmatic power

levels (page 16). The  pad is not used when defrosting with lower Cookmatic power levels.

**Note:** Many foods, especially meats, need to be completely defrosted before cooking begins. If not completely defrosted on the inside as well as the outside, cooking will be uneven. If ice crystals remain in the inside of meats when cooking starts, the meat will be done on the outside while the inside is underdone. Defrosting times and power levels suggested in your Amana cookbook have been thoroughly tested to provide optimum defrosting. Be sure to follow defrosting instructions exactly.

## Summary — To Defrost (Using Defrost Cycle)

1. Touch defrosting time (to defrost 8 minutes touch   ).
2. Touch .
3. Push  switch.

## TRY IT! Changing Cooking or Defrosting Time After the Oven is Started

In Session #1 you learned to touch  once to erase a time entry before the oven is started. You can also change a time entry after the oven is started. You merely "write over" the original entry.

A. **Place a cup of cool water in the Radarange Oven.**

B. Touch   . This sets the oven to cook for 2 minutes at Full Power. Since most of your cooking will be done at Full Power, the Touchmatic Control assumes it should Cook at Full Power unless you set it differently.

C. **Push the  switch.** The oven will now start cooking.

D. Touch   . Watch the control switch to 10 seconds cooking time.

E. Now let's try changing a defrost time while the oven is defrosting. Touch    . The oven is now set to defrost for 3 minutes.

F. Push **START** switch.

G. Touch **1** **0** **0** **DEFROST** . Notice the readout changes to 100.

and the red light in the middle of the **DEFROST** pad stays on.

Notice you **must** touch the **DEFROST** or **COOK** pad when you change the time setting when the oven is operating. If you **don't**, the Touchmatic Control can't accept the instruction.

H. Notice the red light flashing behind the "1" below the cooking program pad. This indicates you are making a change in the cooking program or the **START** switch has not yet been pushed.

Touch **0** **COOKING PROGRAM** . The red light will now stop flashing, but remain on behind the "1".

## Summary — To Change Cooking or Defrosting Time After the Oven is Started

Write directly over the ongoing program as follows:

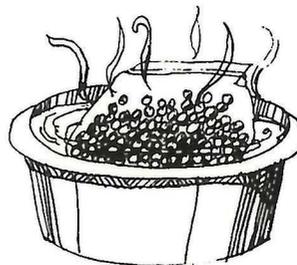
1. Touch new time (to change the setting to 1 minute, touch

**1** **0** **0** ).

2. Touch **COOK** or **DEFROST** , depending on which function the oven is performing.

3. Touch **0** **COOKING PROGRAM** .

In this session you've learned to cook with lower microwave power levels. Plus you've learned to use the Radarange Oven automatic defrost cycle. We suggest you practice what you've learned in Session #4 before going on to Session #5. Try any recipe in the cookbook which uses any one of the Cookmatic power levels. You will also want to try defrosting. Select any food in a defrost chart (at the beginning of appropriate chapters in your Amana cookbook) and try it!



## Using the Automatic Temperature Control System

Your Amana Radarange Oven has an automatic temperature control system which allows you to cook food to the precise temperature desired. You'll find this feature particularly helpful for cooking meats to the exact temperature you want. You can also use it to reheat leftovers, to warm soups and beverages and for many other cooking tasks. **The temperature probe is not intended for use as a candy thermometer.** The highest temperature sensed by the probe is 190°F, while most candies require temperatures of 230°F or higher.

To use the automatic temperature control system, you'll use sections of the Touchmatic Control you didn't use in Sessions #1, #3, or #4. Locate each of these controls on your Radarange Oven:



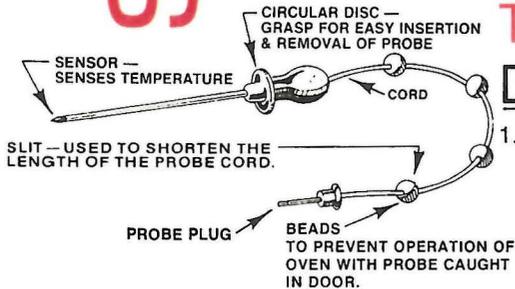
**HOLD PAD** — Used in conjunction with the Temp Control pad to hold food at a given temperature. It is also used in some defrosting/cooking programs (as you'll learn in Session #6).



**TEMP CONTROL PAD** — Used to cook food to a given temperature. It is also used in conjunction with the Hold pad to hold food at a specified temperature.

## Special Hints for Using the Temperature Probe

### Do



1. Insert probe as instructed in recipe or as shown at left.

a. Meats

— With the sensor tip in the thickest section, away from fat and bone.

b. Casseroles, Leftovers

— With tip in center of casserole or dish, not touching bottom or sides.

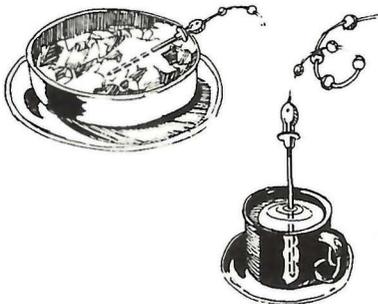
c. Beverages

— With tip in center of liquid.

2. Be sure probe is **securely** inserted into food. If probe should accidentally fall out of food it will sense air temperature and the food will overcook. If the probe tends to slip out of the food, loop the cord (as shown in the beverage drawing at left). The cord can be secured in the slit in the bead closest to the probe plug. Simply loop the cord, then press a section of the cord into the slit in the bead.

3. If you plan to use the temperature probe to cook frozen food — plan ahead. You **must** prepare the food to accept the temperature probe **before** it is frozen. The sensor tip of the probe can be damaged if it is forced into frozen food. To prepare the foods **before** they are frozen:

a. Insert a clean, rigid **plastic** drinking straw into the meat, casserole or other unfrozen food. Insert the straw in the same location in which the temperature probe will be placed. Be sure the end of the straw is in the center of the food, away from fat and bone.



- b. Using scissors, clip the length of straw protruding from the surface of the food. Discard, or use for another piece of meat.
- c. Wrap and freeze food as usual.

The straw will form a channel into the frozen food. When you remove the food from the freezer the probe can be inserted through the straw. The food can then be defrosted and cooked without need to return to the oven to insert the temperature probe after the food is thawed.

- d. **If you forget to insert the straw before freezing, or purchase food pre-frozen, defrost food completely before inserting temperature probe. The sensor tip of the probe can be damaged if forced into frozen food.**
- e. Complete defrosting of food is essential before the Radarange

Oven cooks using  . If the temperature probe is in contact with a frozen area (such as the center of a partially defrosted roast) the Automatic Temperature Control System may turn the oven off shortly after the oven has started cooking using



. Therefore, when using the temperature probe in a frozen food (which has been prepared with a plastic drinking straw as described) you should program your oven all at once to defrost, hold, and then cook to temperature as you will learn in Session #6.

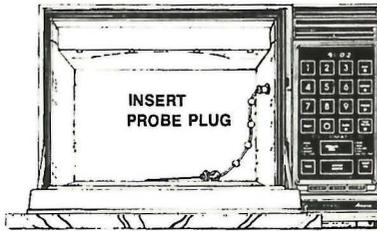
4. If a recipe suggests covering with plastic wrap, use a heavy duty plastic wrap, such as one made of Saran. Some light-weight plastic wraps can melt if in contact with a hot temperature probe for a long time.
5. If necessary, use a hot pad to remove hot temperature probe. During cooking the probe could become hot enough to burn you.
6. Wash the probe with hot, soapy water. Do not immerse the probe plug in water or wash in an automatic dishwasher. Rinse and dry probe thoroughly.
7. Always remove the temperature probe after use. Store the temperature probe somewhere other than inside the Radarange Oven, in a place where it won't be lost or damaged.

## Don't

1. Do not attempt to force the temperature probe into solidly frozen foods. The temperature sensor tip could be damaged or the probe could break.
2. Do not use the temperature probe in conjunction with foil or other metal. Arcing could result. **If a recipe suggests the use of foil, do not use the temperature probe for cooking.**
3. Do not immerse the temperature probe plug in water or wash in an automatic dishwasher. An electrical problem could occur.
4. Do not store the temperature probe inside the Radarange Oven.
5. Do not attempt to operate the microwave oven if the temperature probe should accidentally get caught in the oven door.
6. Do not use the Automatic Temperature Control System when cooking different dishes or foods in the Radarange Oven at the same time.

Because different foods cook at different rates, the results may be unsatisfactory.

## TRY IT! Cooking to Temperature



Try using the automatic temperature control system to heat water to 190°F to make instant coffee.

- A. **Before using the temperature probe, wash it** in hot soapy water. Never immerse the probe plug in water. Rinse and dry.
- B. **Place cup of cold water in Radarange Oven.**
- C. **Insert probe plug into the probe receptacle** on the right side of the microwave oven cavity.
- D. **Place tip of probe in center of cup.**
- E. **Close Radarange Oven door.**

F. Touch  twice.

G. Touch . You always touch the middle number of the desired end temperature. See chart at left.

The lowest temperature which can be sensed by the temperature probe is 110°F; the highest 190°F.

H. Touch . This sets the Touchmatic Control to cook to the temperature you just specified.

I. Push  switch. The Radarange Oven is now cooking at Full Power until the temperature probe senses the water has reached 190°F. When using the automatic temperature control system, no cooking time is programmed, since the oven will cook by temperature alone. **Notice the readout display.** On the right side will be a red "9". This indicates the end temperature you have programmed (remember 9 stands for 190°F. You always program the **middle** number of the desired temperature.)

On the left side you will see a number indicating the **actual** temperature. A "0" means that the actual temperature of the water is less than 110°F, the lowest temperature sensed by the temperature control system. A "1" would indicate the actual temperature is 110°F. The number on the actual temperature readout will increase until the programmed temperature is reached. When the programmed temperature is reached and both numbers displayed are the same, the microwave oven will turn off automatically.

Also notice the red light in the middle of the  pad. This light is on when the Radarange Oven is cooking by temperature.

**Note:** In this example, you cooked to temperature using Full Power. You can also cook to temperature using a lower Cookmatic power level. For example, if you were heating milk or hot chocolate you would want to cook at Cookmatic Level 8 (Medium High) to 140°F. To cook at a lower Cookmatic level, complete Steps "A" through "H" above,

For

110°F	Touch	
120°F	Touch	
130°F	Touch	
140°F	Touch	
150°F	Touch	
160°F	Touch	
170°F	Touch	
180°F	Touch	
190°F	Touch	

	
ACTUAL TEMPERATURE	PROGRAMMED TEMPERATURE

then touch the Cookmatic level number and  pad before pushing the  switch.

**Note:** The Radarange Oven has an automatic "temp-probe check". **Whenever the oven's Touchmatic Control is told to cook with temperature, it automatically checks to be sure the probe jack is securely fastened in the oven receptacle and is working correctly.** If the probe plug is not securely placed in the receptacle or is not working correctly, the Touchmatic Control shuts the oven off.

So — if your oven turns off by itself when you attempt to use the temperature probe — check the following:

- 1) Is the food you're cooking already as hot or hotter than the temperature you've programmed?
- 2) Is the probe plug securely inserted into the oven receptacle?

If not, reinsert, touch , then reprogram instructions.

- 3) Is the oven plugged into a receptacle that's properly grounded and polarized?
- 4) If the oven still turns off when you attempt to use the temperature probe, the probe may be broken. See page 41 for instructions for calling your nearest Amana authorized service center.

## Summary — To Cook to Temperature

1. Insert probe into food and oven receptacle.
2. Touch middle number of desired end temperature (to cook to 140 F, touch ).
3. Touch .
4. If less than full microwave power is desired, touch Cookmatic power level number, then touch .
5. Push  switch.

Readout on right side of display signifies desired end temperature. Readout on left side signifies present temperature. The numbers displayed are the **middle** numbers of the temperatures ("4" means 140 F).

## TRY IT! Holding at Temperature

The temperature-holding capability of your Amana Radarange Microwave Oven allows you to prepare the most even, tender meats ever cooked in a microwave oven. You can also maintain a precise simmer of sauces, stews, and soups for as long as you wish. And you can hold a casserole, fondue, meat or almost any other food at serving temperature for even the latest of the late-comers.

To illustrate, suppose you want to hold liquid at a 140°F temperature.

- A. Place a cup or glass of fresh cold water in the Radarange Oven.
- B. Insert probe into the middle of cup. Insert the probe plug into the oven receptacle.

C. Close Radarange Oven door.

D. Touch  twice.

E. Touch  Remember, you touch the middle number of the desired temperature.

F. Touch  .

G. Push  switch. The Radarange Oven will heat the water with full microwave power to 140°F. The microwave power will then cycle on and off to maintain the temperature at 140°F until you turn the oven off, by pushing the

 switch. Red lights in the middle of the  and 

pads indicate the oven is programmed to hold the food at a given temperature. Notice the readout display. The "4" on the right side of the display indicates the oven is holding the food at 140°F. The number on the left side of the display is the actual temperature of the food at any given time. The left number will go from 0 to 4 as the water is heated and then may fluctuate between 3 and 4 as the water cools slightly and is then reheated to 140°F.

H. Push  switch to turn oven off.

I. Touch  twice to return readout display to correct time of day.

**Note:** In the above example, you cooked and held at temperature using full microwave power. To cook at a lower Cookmatic power level, complete Steps "A" through "F", then touch the desired Cookmatic power level number and  pad before pushing the  switch.

**Note:** You may wish to keep track of the length of time the food temperature is held. For example, some baby formulas suggest holding at a given temperature for a set length of time. (Some meat recipes may also suggest holding temperature for a specific length of time to tenderize meat.)

If you wish to time the length of temperature-hold:

Complete Steps "A" through "G" above. When the numbers on the right and left of the readout display are the same, (programmed temperature = actual temperature):

— Touch time desired (to time one hour [60 min.], touch

   ).

— Touch .

— To return to readout display of actual and programmed

temperatures touch , then . To see the

amount of time remaining, touch .

— When timer expires and the buzzer sounds, push

 switch.

**Note:** If you wish to use the temperature hold feature, especially with cooked meat, poultry or fish, it should be held at 140°F or above to prevent the growth of bacteria or the production of toxins.

## Summary — To Hold at Temperature

1. Insert probe into food and oven receptacle.
2. Touch middle number of desired holding temperature (to hold at 120 F, touch ).
3. Touch  .
4. If less than full microwave power is desired, touch Cookmatic power level number, then touch .
5. Push  switch.
6. Push  switch to turn oven off.
7. Touch  twice to return readout display to correct time of day.

## TRY IT! Changing Programmed Temperature While Cooking

Occasionally you may want to change the programmed temperature while you're cooking. This can be done while cooking to temperature or while holding at temperature. To try this, complete Steps "A" through "G" of "TRY IT! Holding at temperature", pages 25-26. To change the temperature:

- A. Touch middle number of desired temperature (Touch  for 150°F).
- B. Touch .
- C. If you wish to hold food at this temperature, touch .
- D. Touch  .
- E. Push  switch to turn the oven off.
- F. Touch  twice to return readout display to correct time of day.

## TRY IT! Using the Temperature Probe Without Cooking

You can also use the temperature probe as a thermometer, even when the oven isn't cooking! For example, you may want to measure to see if tap water is warm enough to soften dry yeast (110°F), or if food is less than serving temperature (less than 140°F).

- A. Place a glass of hot tap water in the Radarange Oven.
- B. Insert temperature probe in the water. Insert probe plug into the oven wall receptacle.
- C. Touch  pad. The number which appears on the left side of the readout display signifies the actual temperature. For example, if a "2" appears on the display the water is 120°F. If a "0" appears, the water is less than 110°F.
- D. Touch  to return readout display to time of day.

## Summary — To Use the Temperature Probe Without Cooking

1. Insert temperature probe tip into food; insert probe plug into oven wall receptacle.
2. Touch .
3. To return readout display to correct time of day,

touch .

In this session you have learned to use the automatic temperature control system both to cook to temperature and to hold food at a given temperature. We'd suggest trying each of these cooking procedures on your own before going on to Session #6. In Session #6 you'll learn to use the Cooking Programs of your Amana Radarange Microwave Oven.

Remember — the temperature probe should not be stored in the Radarange Oven when not in use. When you're through using it:

- Unplug the probe plug from the oven receptacle.
- Wash the probe in hot, soapy water. Do not immerse the plug in water or wash in a dishwasher. Rinse and dry probe thoroughly.
- Store the probe somewhere other than inside the Radarange Oven. Store the probe in a place where it won't be lost or damaged.

## Programmed Cooking Using 2, 3 or 4 Cooking Programs/ Automatic Start Time/ Touchmatic Instant Replay

Your Amana Radarange Microwave Oven's Touchmatic Control allows it to remember up to four cooking programs. This feature allows you to tell the Radarange Oven to do any combination of four of the following:

- cook by time (using 1 of 10 power levels)
- defrost
- hold
- cook to temperature (also using 1 of 10 power levels).

You can combine these options ("programs") in any sequence and repeat any program up to four times. You may also cook to temperature, then hold the food at that temperature in the final program. This means you can cook foods using the best techniques to optimize flavor and tenderness — yet all you need to do is program the instructions and start the oven. You can often forget the food until it's time to serve it.

You've already learned how to do each of these four possible program options. For programmed cooking you merely combine the things you've learned in Sessions #1 through #5.

**If the Temp Control-Hold option is used in a 2, 3, or 4 program cooking sequence, Temp Control-Hold must be the last program in the sequence.** Temp Control-Hold does exactly what it says it does — it holds the food at the set temperature until the oven is turned off. (If the Temp Control-Hold is used in other than the last cooking program, the instructions following Temp Control-Hold will never be completed. The oven will hold the food at the Temp Control-Hold temperature until the oven is turned off.)

The one program option which you haven't used by itself in previous sessions is the Hold option. The hold option merely holds the food a specified length of time. No microwave power is applied to the food during a hold program. The fan stays on to circulate air, but no microwave power is produced. Hold time is often suggested in recipes after defrosting, to allow food temperatures to completely equalize before cooking. The Hold option can be used in any cooking program in the sequence.

## Programming is Simple!

Your Amana Radarange Oven is capable of doing some very sophisticated things. But we've made them simple for you. All you do is sequentially touch the correct Touchmatic pads and push the start switch!

Programmed recipes in your Amana cookbook all have simple Touchmatic charts similar to the one illustrated on the next page.

1	COOKING PROGRAM	1:00	DEFROST	
2	COOKING PROGRAM	:30	HOLD	
3	COOKING PROGRAM	4	TEMP CONTROL	HOLD
				5
				COOKMATIC LEVEL

These charts tell you exactly which Touchmatic pads to touch and in what order. You read the chart from left to right, just like you read a sentence.

Notice that all instructions for **each program** are in the same line. You can tell what the unit will be doing in a program by looking at the line. For example, look at line 3 of the Touchmatic chart shown.

This tells you in the third cooking program your Radarange Oven will be cooking to 140°F, then holding the food at 140°F, using Cookmatic Level 5.

Notice also — **You always tell the oven's Touchmatic Control which cooking program you're talking about before you tell it what you want done in the cooking program.** And, just like you've been doing since Session #1, you **always** tell it a number (or numbers) before you tell it the function (Defrost, Hold, Cook, Temp Control or Temp Control-Hold).

### Cooking Programs are Easy to Check!

Once you've touched in instructions, it's easy to check to be sure you've made no mistakes. You should **always** check cooking programs before starting the Radarange Oven. If you don't correct a mistake, food won't be cooked properly — or it could even be ruined.

To check a cooking program you merely touch the cooking program number, then



. For example, if you're not certain what you've told

the oven to do in Program 3, touch **3**, then . The red lights which appear will tell you what the oven's been told to do in cooking program 3.

When you're through checking the cooking programs, touch , then



to return the current display.

## TRY IT! Programmed Cooking

To get quick practice using the cooking programs, let's try it with a cup of water in the oven.

- Place a cup or glass of fresh cold water in the Radarange Oven.
- Insert the tip of the temperature probe in the water. Insert the probe plug securely in the oven receptacle.
- Close oven door.
- Touch twice. (Remember — This is to cancel any "leftover" instructions).
- Touch all pads as indicated in the Touchmatic chart at left.

1	COOKING PROGRAM	1:00	DEFROST	
2	COOKING PROGRAM	:30	HOLD	
3	COOKING PROGRAM	4	TEMP CONTROL	HOLD
				5
				COOKMATIC LEVEL

(If you make a mistake — no problem! Just re-do the line in which you made a mistake. Retouch the **correct** pads for the entire line.)

F. Check to be sure you've programmed instructions exactly as shown in the Touchmatic chart. To check:

1) Touch **1**  .

- Notice which lights are on below the  pad. There should be three red lights visible directly beneath it. The lights are on behind the "1", "2" and "3", but the light behind "4" is not on. This indicates you have put instructions in programs 1, 2, and 3, but none in program 4. The flashing red light behind the "1" indicates you are now reviewing instructions in program 1.
- Notice the 100 in the readout display. This tells you you've instructed the Touchmatic Control to do something for 1 minute in program 1.

- The red light in the middle of the  pad indicates the oven will be defrosting in program 1.

By looking at these lights you know the oven will be defrosting for 1 minute in program 1. Exactly what you told it to do!

2) Touch **2**  .

- Notice the red light behind the "2" below the  pad is now flashing. This tells you you're examining instructions in program 2.
- The 30 in the readout display tells you the oven will do something for 30 seconds in program 2.
- The light in the middle of the  pad tells you the oven will hold in program 2.

By looking at these lights you know the oven will be holding for 30 seconds in program 2. Exactly what you told it to do!

3) Touch **3**  .

- The display should be as follows:
  - solid red lights behind the "1" and "2" directly below the  pad.
  - a flashing red light behind the "3" directly below the  pad.
  - a "4" on the right side of the readout display.
  - red lights in the middle of the  and  pads.
  - a red "5" in the  pad.

These lights tell you in cooking program 3 that the oven will cook to 140°F then hold the food at 140°F, using Cookmatic Level 5. Exactly what you told it to do!

If you find you've made a mistake in one of the cooking programs —

Enter the correct information exactly as it appears in the corresponding line of the Touchmatic chart. For example, if you'd made a mistake in program 1, you'd just retouch these pads:



G. Push **START** switch. The oven will now defrost for 1 minute, hold for 30 seconds, then heat the water to 140°F and hold it at that temperature.

H. Push **STOP** switch after the water reaches 140°F (when both numbers in the readout display are "4"s).

## Summary — To Cook With Cooking Programs

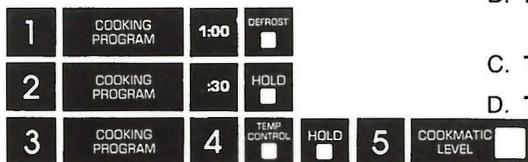
1. Touch all the pads as indicated in the recipe's Touchmatic Chart.
2. Check to be sure you've touched in all the programs correctly.
3. Push **START** switch.

## TRY IT! Changing a Cooking Program After the Oven is Started

Sometimes you may want to change part of a cooking program after you've started the oven. For example, you may want to change the end temperature, the length of cooking time or the Cookmatic power level to be used. With your Amana® Radarange Oven you can change any (or all) of the **remaining** cooking programs without even stopping the oven.

To see how you do it —

- A. Put a glass or cup of cold water in the Radarange Oven.
- B. If you've removed the temperature probe, reinsert.
- C. Touch the **CHANGE/CANCEL** button twice (to erase any "leftover" instructions).
- D. Touch in the cooking sequence illustrated at left.



E. Check to be sure you've touched in all the programs correctly.

F. Push **START** switch.

G. Touch-in the instructions in the program(s) you want to change. For example, to hold the food at 150°F rather than 140°F in the third cooking program, touch pads as indicated at left.



Notice the oven keeps running, but accepts your new instructions.

- H. Touch  then . This tells the oven you're through changing instructions and you're ready to return the display to what's happening in the oven right now. Watch the readout display. It will return to a display of the ongoing cooking function. You must always touch  then  to return to the correct display.

## Automatic Start Time

The automatic start time feature allows you to prepare a food and put it in the Radarange Oven up to 12 hours before you want it to start cooking. Automatic start time instructions in your Amana cookbook are designed for preparing the food either four hours or eight to eleven hours before you want it to start cooking. The perfect way to come home to a piping hot dinner after a long day at the office or an afternoon shopping spree!

Oven designs and recipe instructions have been thoroughly tested to provide excellent results with the utmost in safety. However, there are a few common-sense rules you **must** follow when using the automatic start time feature:

1. Do not hold foods longer than three (3) hours unless the food is frozen when placed in the oven. Foods which are highly perishable (e.g. milk, eggs, fish, stuffing) should not be held for use with the automatic start time feature. This precaution is to prevent the growth of bacteria and toxins.
2. Be very careful that the correct cooking sequence is programmed. If mistakenly programmed to cook at too high power for too long a time in an unattended home, there is a remote chance a fire could occur. Extreme overcooking, as in conventional cooking, can cause food to smoke or char.
3. Caution children and others in the home **not** to touch the control panel after it is programmed. If several pads are touched there is a possibility the cooking instructions could be altered.

### When You Use the Automatic Start Time Feature

1. Select a recipe which will work well with the automatic start time feature. Select one which is safe for holding (for example, no fish, eggs, milk or stuffing). Use only frozen foods if the food is to be held longer than three hours before cooking.

Select a food which requires little or no stirring. We do not recommend using the automatic start time feature for recipes which suggest frequent stirring. If you are not there to stir the food when suggested, results will not be optimum.

Foods we especially recommend include:

- solidly frozen meats
- frozen casseroles
- non-frozen soups or casseroles which don't contain milk, meat, fish or eggs.

Foods we do not recommend include non-frozen meats and poultry, milk, stuffings and egg dishes.

Several recipes in your Amana cookbook provide exact instructions for cooking using the automatic start time feature.

2. Always check to be sure the Radarange Oven clock is set correctly.
3. To use the automatic start time feature, you need to determine what time the oven should start in order to have the food ready at the time you want to serve it. A quick, easy formula to determine start time is: **servicing time – approximate oven time = start time.**

Look in your Amana cookbook to determine approximate Radarange Oven time.

For example, if you want to serve a roast at 6:00 and it requires a total of 2 hours oven time, the oven should start at 4:00.

## TRY IT! Automatic Start Time

Just to see how the automatic start time works,

- A. Place a cup or glass of cold water in the Radarange Oven. Close door.
- B. Touch  twice.
- C. Look at the readout display to check the present time of day. To start cooking two minutes from now, add two minutes to this time. (For example, if it is presently 2:30, the start time will be 2:32.)
- D. Touch the pads indicating the Start Time you selected. (Remember, when the readout is functioning as a clock, the digits indicate:

Hour                      Minutes  
 or 2:32.)

- E. Then touch  (located in the lower right corner of the Touchmatic Control). This sets the Touchmatic Control to start cooking at the start time you selected.
- F. Touch   . This programs the oven to defrost for 20 seconds.
- G. Push the  switch. You will hear a “click” and a soft “humming” noise. Notice the oven doesn’t start cooking, but the door is locked. The door will remain locked until the oven is through cooking or until the  switch is pushed. At the time you set for start time, the oven will turn on and cook for 20 seconds.

## Summary — To Use Automatic Start Time

1. Check to be sure the clock is at the correct time of day.
2. Touch desired start time (to start at 2:45, touch    .) (Serving time – oven time = Start Time.)

3. Touch .
4. Touch in the entire cooking sequence desired.
5. Push  switch.
6. If you want to check the time of day before the oven starts,  
touch .

## TRY IT! Using the Automatic Start Time Like an Alarm Clock

The Automatic Start Time feature of your Radarange Oven can even be used like an alarm clock. You can use it to remind you to take your medicine — or when it's time to leave for an appointment.

Just to see how to use the Start Time feature like an alarm clock:

- A. **Check to be sure the clock is set to the correct time of day.**
- B. Select a time (within the next 12 hours) when you'd like to be reminded to do something. **Touch the numbers corresponding to the time you select.** (For example, if you need to take a pill at 9:00, touch

   .)

- C. Touch .

At the time you set, the reminder signal will sound.

## Summary — To Use the Start Time Like an Alarm Clock

1. Check to be sure the clock is set correctly.
2. Touch the numbers corresponding to the time you want the reminder signal to sound. (For 9:00, touch    .)
3. Touch .

## Touchmatic Instant Replay

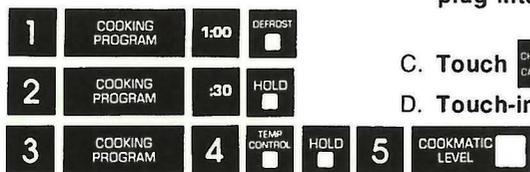
Your Amana Radarange Oven has “instant replay” features that let you ask it questions. Questions like:

What time is it? (For example, you may want to know the time while the oven is cooking.)

What's the temperature of the food? (For example, to decide if a food needs reheating or if water is “lukewarm” as called for in recipe.)

What did I tell you to do in cooking program 2? (If you forget.).

# TRY IT! Touchmatic Instant Replay



- A. Place a cup or glass of hot water in the Radarange Oven.  
 B. Insert the tip of the temperature probe in the water; insert the probe plug into the oven receptacle. Close oven door.

C. Touch  twice.

D. Touch-in the instructions in the Touchmatic Chart illustrated at left.

E. To ask the oven "What's the temperature of the water?" touch .

A number should appear on the left side of the readout display. This tells you the actual temperature of the water right now. (Remember the number on the display is the **middle** number of the actual temperature. A "3" means 1**3**0°F. A "0" means the water is less than 1**0**°F.)

Touch . This returns the readout display to the ongoing cooking function (or time of day when the oven hasn't been started).

F. To ask the oven "What time did I tell you to start cooking?" touch .

The readout display should be blank in this case, since you didn't tell it a start time. If you had, a time would be displayed.

Touch  to take the readout display back to the ongoing cooking function (or time of day if oven isn't started yet).

G. To ask the oven "What did I tell you to do in the second cooking program?" touch .

The lights which are on tell you what the oven will be doing in the second cooking program.

Touch  to return the display to the ongoing cooking function (or time of day if oven isn't started yet).

H. Push  switch. The oven will now start the sequence you told it to do. You could ask the oven each of the above questions while it is operating.

I. To ask the oven "What time is it?" touch . The readout display will now show the time of day.

Touch  to return the readout display to the ongoing cooking function.

J. Touch     as if you were timing something else for a minute. Before the minute expires, touch   to go back to the readout display of the ongoing cooking function. Touch  to ask over "How much time is remaining on the timer?" Touch   again. to go back to the ongoing cooking function

## Summary — To Check Present Temperature of Food (temperature probe must be inserted)

1. Touch . Readout will be the middle number of the actual temperature ("4" means 140°F).
2. To return to display of ongoing function, touch  .

## Summary — To Check Present Time of Day (clock must be set to correct time of day)

1. Touch . Readout will be present time of day.
2. To return to display of ongoing function, touch  .

## Summary — To Check Start Time Programmed

1. Touch .
2. To return to display of ongoing function touch  .

## Summary — To Check Time Left on Timer

1. Touch .
2. To return to display of ongoing function touch  .

## Summary — To Review Cooking Programs

1. Touch number of program you want to review, then touch . Repeat for each program you want to review.
2. To return to display of ongoing function touch  .



**To Clean The Oven Interior**

The inside walls and floor are made of stainless steel. If they should become splattered, all you do is 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.

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

**To Clean The Glass Tray**, lift up the tray and remove. Wash in warm water and detergent or in a dishwasher. Replace with drip tray pattern up. Do not operate the oven without tray in position.

**Always Keep The Touchmatic Plate Clean.**

If it is not clean, it may not register the instructions you touch. To clean the Touchmatic plate merely wipe with a **damp** soft cloth or sponge. If the time of day display is accidentally erased from the Touchmatic Control, merely

touch  **twice**, then set the correct time of day.

**To Clean The Temperature Probe** wash the metal probe in hot soapy water. Do not immerse the probe plug or wires in water. Do not wash probe in dishwasher.

**To Clean The Discharge Air Vents**

There will be a slight build-up of cooking vapors in the discharge vent located in the upper right hand corner, above the control panel. This vent should be cleaned occasionally. Do not attempt to remove the front of the Touchmatic Control module; it is an integral part of the oven. Clean the air vent with a damp cloth.

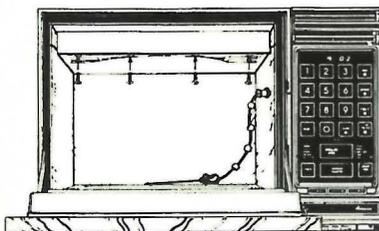
**To Clean The Splatter Shield Inside Oven**

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 is secured by four screws in recessed wells in the front underside of the shield and four tabs which fit into slots in the back oven wall. Remove the four screws. Then carefully lower the shield and, clearing the antenna, pull the shield forward out of the back wall 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. Also be sure the splatter shield tabs fit snugly into the slots in the back of the oven before replacing the screws.



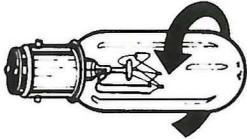
## How to Change the Oven Light

Always unplug the oven from the electric outlet before you change the oven light.

The light bulb for the inside of the oven can be changed easily from the back. On the upper right hand side of the oven back is a metal plate with a screw. The light bulb is located behind this plate.

Follow these steps to change the bulb:

- a) Unplug the Radarange Oven from the electric outlet.
- b) Facing the oven back, remove the screw, allowing the metal plate and light to swing outward.
- c) Remove the bulb, being careful not to burn fingers or break the bulb. (To remove the bulb press into socket and turn counterclockwise.)
- d) Replace the bulb with a 25 watt 25T8DC bayonet base bulb. (To replace the bulb press into socket before turning clockwise.)
- e) Reposition the plate, being careful not to bend hinge tabs. Replace the screw.
- f) Connect the Radarange Oven to the power outlet.



To remove bulb, press in and turn counterclockwise.

## 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 that is being cooked. The tray is a special type of glass and, if it is accidentally broken, it must be replaced with the same type of glass from your Amana Dealer.

## Before You Call for Service

If the readout display doesn't light up, please check:

- Is the oven plugged securely into the proper power outlet?  
**Remember**, most Model RR-10 Series Radarange Ovens operate only on 120 volt, 60 HZ current. Owners of ovens that have the letters "ET" as part of the model number **must** have an authorized Amana servicer convert the oven to the voltage rating of the area in which the oven will be used (120 volt, 50 HZ outside the United States; 120 volt, 60 HZ inside the United States). Check the nameplate on the back of your oven for the exact model number.
- Is a fuse blown or circuit breaker open?

If microwave power won't come on:

- Did you push the **START** switch?
- Is the oven door securely closed?

If food is overcooked:

- Did you remember to program the correct Cooking Power Level? (Review instructions, page 16.)

If food is undercooked:

- Are there other energy-consuming appliances on the same circuit as the microwave oven? (Review installation 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.)

If the temperature probe appears not to function correctly:

- Is the probe jack securely inserted into the receptacle?
- Is the food you're attempting to heat already hotter than the temperature you're programming?

If the time of day readout is erased:

- Power to the oven has likely been interrupted momentarily. Reset the clock as instructed on page 6.

If the readout appears wrong:

- Did you remember to touch  twice before programming the oven?
- Have you (or someone else) touched the Touchmatic pad after cooking is started? If the readout ever appears wrong, touch 

 to see the readout of what the oven is doing right now.

If another 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 installation instructions (page 2)? Improper installation can result in erratic operation.**

If room lights dim, or pulse dimmer, then brighter when the oven is in use:

- 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).
- Is your microwave oven on a separate circuit? (Review Installation Instructions, page 2.)

## When Service is Required

Call nearest authorized service agency. (The dealer from whom you purchased your Radarange 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 and serial numbers (located on nameplate on the back of the Radarange Oven).
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 and ask for Customer Relations.



## *The Heritage of* **Amana**

## *An American Tradition*

In 1854 a group of God fearing people of West German, Swiss and Alsatian ancestry left New York State and founded the seven villages of Amana in the fertile fields of Iowa. They established their own woolen mills, wagon shops, furniture factory and other industries. Each member contributed some particular skill handed down from father to son in true old-world tradition.

The excellence of the Amana products soon attracted the attention of the outside world and the colonies enjoyed a national reputation for superb workmanship. In all America there is no other community quite like the Amana colonies of Iowa. Here today are blended the new ways with the old . . . 20th century efficiency and time honored, fine craftsmanship.

Amana pioneered in low temperature refrigeration; and Amana Refrigeration, Inc. continues to be a leading manufacturer of a quality line of microwave ovens, refrigerators, freezers, room air conditioners, electric ranges and cooktops, trash compactors, and central cooling and heating products. Every Amana product reflects the heritage of technical skill, integrity, pride of workmanship and highest quality standards.

*Backed by a Century-Old Tradition of Fine Craftsmanship*