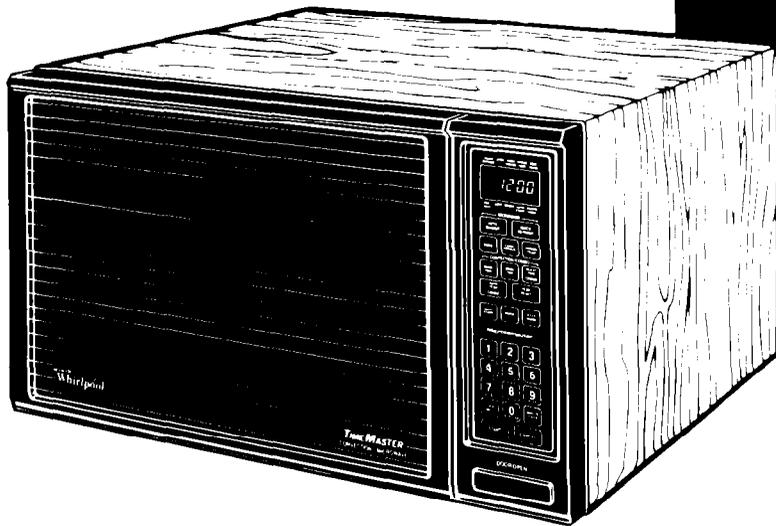


use & care guide



CONVECTION MICROWAVE OVEN

Models MC8990XT
MC8991XT

ers. Ice Makers. Dishwashers. Built-In Ovens and Surface Units. Ranges. Microwave Ovens. Trash Compactors. Room Air Conditioners. Dehumidifiers. Automatic Washers. Clothes Dryers. Freezers. Re



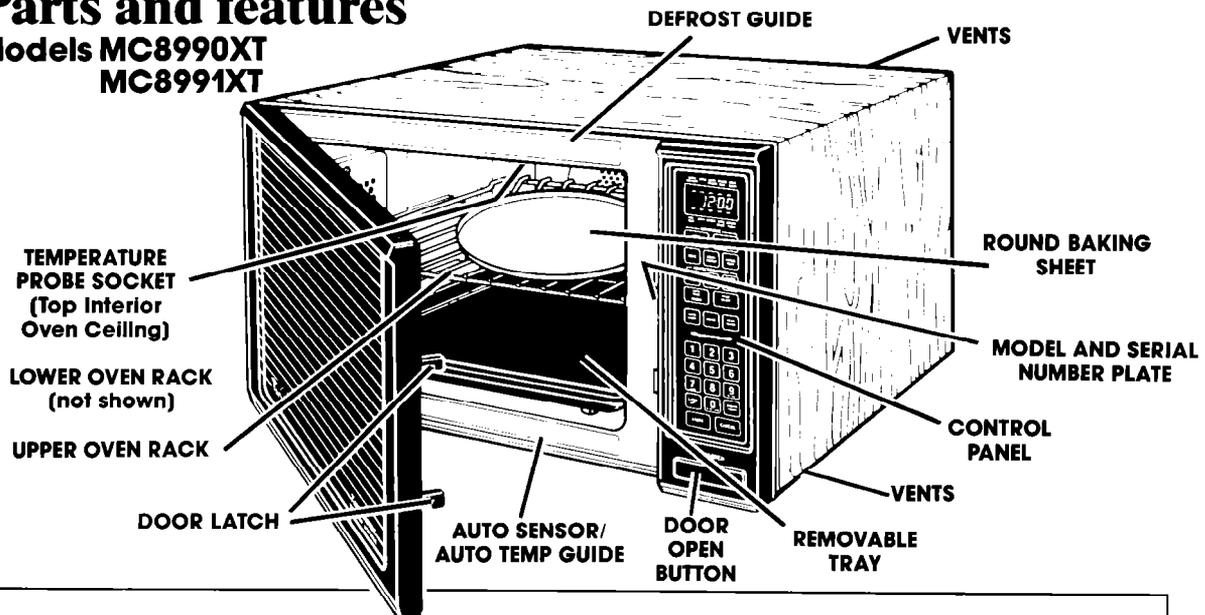
Contents

	Page		Page
Parts and Features	2	Defrosting with Microwave Energy	13
Before You Install Your Convection Microwave Oven	3	Cooking Automatically after Defrosting	14
Before You Use Your Convection Microwave Oven	3	Cooking with the Temperature Probe	17
Precautions to Avoid Possible Exposure to Excessive Microwave Energy	3	Using PAUSE	19
Important Safety Instructions	4	Using KEEP WARM	22
Using Your Convection Microwave Oven	5	Using AUTO START	23
Convection Microwave Oven Controls	5	Convection Cooking	26
Programming Tone	6	Combination Cooking	30
Setting the Clock	6	Using TEMP RESET	31
Using the Minute Timer	7	Bi-Level Cooking	34
Microwave Cooking	8	Other Operating Hints	34
Using AUTO SENSOR	8	Installation Instructions	35
Microwave Cooking at High Cook Power	11	Grounding Instructions	36
Microwave Cooking at Lower Cook Powers	12	Caring For Your Convection Microwave Oven	37
		Cleaning Chart	37
		Microwave Operating Safety Precautions	38
		If You Need Service or Assistance	40
		Convection Microwave Oven Warranty	44

©1988 Whirlpool Corporation

Parts and features

Models MC8990XT
MC8991XT



Thank you for buying a Whirlpool product.

For your convenience, please copy your Model and Serial Numbers here.

If you need service or call with a question, have this information ready:

1. **Complete** Model and Serial Numbers (from the label on the inside edge of the control panel and/or on the back of the oven).
2. Purchase date from sales slip.

Copy this information in these spaces. Keep this book and your sales slip together in a handy place. **Please complete and mail the Owner Registration Card furnished with this product.**

Model Number _____

Serial Number _____

Purchase Date _____

Service Company Phone Number _____

Fill out and return the "Microwave Registration Card" included with your oven. If the card is missing, please send the model number of your convection microwave oven with your name and address to...

Whirlpool Corporation
Microwave Registration Department
Administrative Center
2000 M-63
Benton Harbor, Michigan 49022

This information will help us reach you if there is ever a need to pass along information about your convection microwave oven.

Before you install your convection microwave oven

Read and carefully follow the "INSTALLATION INSTRUCTIONS" found on page 35 of this "Use and Care Guide."



WARNING: Failure to follow the Installation Instructions could lead to product malfunction or possible personal injury.

Before you use your convection microwave oven

Read this "Use & Care Guide" carefully for important use and safety information. Store in a convenient place for future use.



It is your responsibility and obligation to be sure your convection microwave oven:

- Has been installed where it is protected from the elements. **The convection microwave oven should be at a temperature above 50°F (10°C) for proper operation.**
- Has been installed on a surface strong enough to support its weight.
- Has been properly connected to electrical supply and grounded. (See "Installation Instructions.")
- Is not used by anyone unable to operate it properly.
- Is properly maintained.
- Is used only for jobs expected of a home convection microwave oven.

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

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.

DO NOT place any object between the oven front face and the door or allow soil or cleaner residue to accumulate on sealing surfaces.

DO NOT operate the oven if it is damaged. It is particularly important that the oven door close properly and that there is no damage to the

- (1) Door (bent),
- (2) Hinges and latches (broken or loosened),
- (3) Door seals and sealing surfaces.

DO NOT operate the convection microwave oven if the door window is broken.

The convection microwave oven should be checked for microwave leakage by qualified service personnel after a repair is made.

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

DO NOT operate the convection microwave oven with the outer cabinet removed.

IMPORTANT SAFETY INSTRUCTIONS

Convection microwave ovens have been used successfully in homes for a number of years. They are thoroughly tested for safe and efficient operation. However, as with any appliance, there are special installation and safety precautions which must be followed to ensure safe and satisfactory operation and prevent damage to the unit.

⚠ WARNING – To reduce the risk of burns, electric shock, fire, injury to persons or exposure to excessive microwave energy:

1. Read all instructions before using 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”** found on page 36.
4. Install or locate this appliance only in accordance with the provided **“INSTALLATION INSTRUCTIONS”** found on page 35.
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. Electric shock, fire or other hazard may result.
9. This appliance should be serviced only by qualified service personnel. Call a Whirlpool authorized factory service company for examination, repair or adjustment.
10. Do not cover or block any opening on the appliance, for fire may result.
11. Do not use outdoors for damage to the oven or electric shock may result.
12. Do not immerse cord or plug in water for electric shock may result.
13. Keep cord away from heated surfaces for electric shock may result.
14. Do not let cord hang over edge of table or counter for electric shock may result.
15. See door surface cleaning instructions on page 37.
16. To reduce the risk of fire or fire in the oven cavity:
 - a. Do not overcook food. Carefully attend appliance if paper, plastic, or other combustible materials are placed inside the oven to facilitate microwave cooking. Paper can char or burn, and some plastics can melt if used when heating foods.
 - b. Test dinnerware or cookware before using for microwave cooking. See page 39. Some dishes (melamine, Centura, etc.) absorb microwave energy, becoming too hot to handle and slowing microwave cooking times. Remove wire twist-ties from paper or plastic bags before using for microwave or combination cooking. Microwave cooking in metal containers can damage the oven. So can containers with hidden metal (twist-ties, foil lining, staples, metallic glaze or trim).
 - 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.
17. Read and follow **“MICROWAVE OPERATING SAFETY PRECAUTIONS”** starting on page 38.
18. **CAUTION:** Do not operate this appliance when it is empty, except when preheating for convection or combination cooking. See pages 26 and 30.

SAVE THESE INSTRUCTIONS

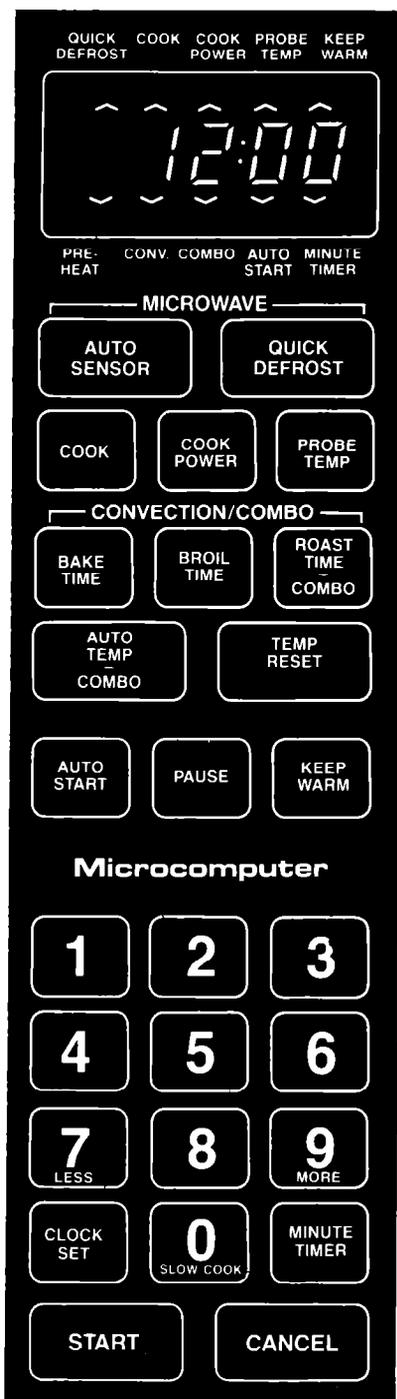
Using your convection microwave oven

Convection microwave oven controls

- There are three parts in the control section:
- The Digital Display/Clock and Indicator Lights.
 - Command Pads
 - Number Pads

Instructions for each control are covered on the following pages. Read them carefully.

When you first plug in the oven, a tone sounds and the Display will show 888:88. If after you set the Clock (page 6), the Display again shows all 8's, your electricity was off for a while. Reset the Clock.

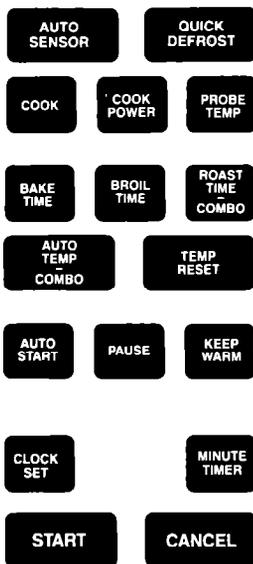


Digital display/clock and indicator lights



When you are not using the convection microwave oven, this is an accurate digital clock. When you are using the oven, it displays time settings, indicator lights and shows what number pads you touched.

Command pads



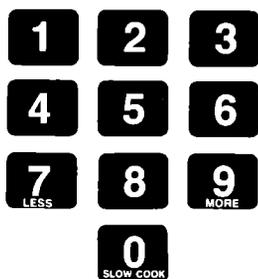
Touch Command Pads to tell the convection microwave oven what to do and in what order. A few examples:

- CLOCK SET tells the oven you are going to set the clock.
 - START tells the oven to start.
- See page 6 for information on the tone you hear when touching any pad.

Each Command Pad, (except START, CANCEL, PAUSE, AUTO SENSOR, TEMP RESET and CLOCK SET) lights an Indicator Light on the digital display. The Indicator Light comes on when you touch the Command Pad.

While the oven is running, an Indicator Light (or lights) will be on to show what the oven is doing.

Number pads



Once you've touched a Command Pad to tell the oven what you want it to do, you'll touch Number Pads to tell it...

- a time,
- a Cook Power,
- a food temperature,
- an oven temperature.

Programming tone

Each time you touch a pad you will hear a tone. If you don't hear a tone, it is because the instruction is not correct, or because the tones have been removed.

EXAMPLE: If you touch a Number Pad before you touch a Command Pad, you will not hear a tone. The instruction is not correct.

If you want to remove the programming tone and end of cooking tone (beep every 60 seconds while "End" is displayed):

- Open the door.
- Touch CANCEL **twice**, then touch START.
- The tone will not sound for any **touch**.

If you want to replace the programming tone and end of cooking tone (beep every 60 seconds while "End" is displayed):

- Open the door.
- Touch CANCEL **twice**, then touch START.
- The tone will sound for any correct **touch**.

If you want to remove all tones, except the minute timer signal:

- Open the door.
- Touch CANCEL **twice**, touch 0, then touch START.
- All audible tones will be cancelled.
- **To replace the tones**, repeat the above steps.

NOTE: If electric power ever goes off, the programming tones will again sound each time you touch a pad.

Setting the clock

When the oven is first plugged in, a tone sounds and the display shows **888:88**. If the electric power ever goes off, the display will again show all 8's when the power comes back on.

You can cook or use the Minute Timer without setting the clock, but the display will be blank after cooking.

DO THIS...



1. Touch CLOCK SET.

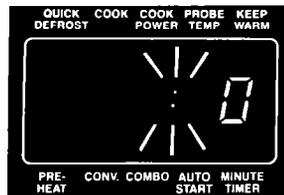


2. Touch Number Pads for the correct time of day.

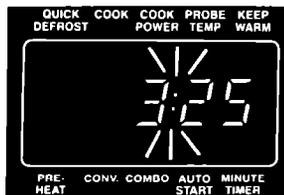


3. Touch START.

THIS HAPPENS...



The Display will show a "0" and the colon will start to flash. **The first Number Pad must be touched within 5 seconds or the Display will go blank.** Touch CLOCK SET again and continue.



The Display will show what numbers you touched **in the order you touched them**. This example shows 3:25.



The colon will stop flashing. The Clock is set.



If you have touched in an incorrect time, such as 12:65, "Err" will show on the Display. Touch CLOCK SET and start over.

NOTE: To reset the clock, touch CLOCK SET. The current time will show on the Display and the colon will flash. Continue to set the clock as shown above.

Using the minute timer

The Minute Timer does not start or stop cooking. It can be used alone or while the oven is operating. It works like a kitchen timer. You can set it for up to 99 minutes, 99 seconds.

DO THIS...



1. Touch MINUTE TIMER.

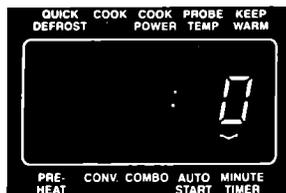


2. Touch Number Pads for minutes and seconds.



3. Touch START.

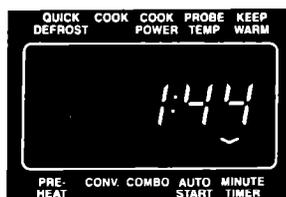
THIS HAPPENS...



The Minute Timer indicator Light will come on and the Display will show a "0." **The first Number Pad must be touched within 5 seconds or the Display will again show the time of day.** Touch MINUTE TIMER again and continue.



The Display will show what numbers you touched **in the order you touched them.** This example shows 1 minute, 45 seconds.



The Minute Timer Indicator Light will stay on to show that the Minute Timer is running.

The Display counts down the seconds to show how much time is left on the Minute Timer.

When the set time is up, a 3 second signal will sound and the Display will show the time of day.

Changing the minute timer

- Touch MINUTE TIMER.
- Touch numbers to set new time.
- Touch START.

New instructions cancel the old ones.

Cancelling the minute timer.

- Touch MINUTE TIMER.
- Touch CANCEL. **NOTE:** MINUTE TIMER must be touched before touching CANCEL.

If CANCEL is touched first, all cooking instructions will be cancelled and the Minute Timer will continue to operate.

The Minute Timer can be set to time other activities while the oven is operating in any other cycle. The Display will countdown the time of the cycle in operation. The Minute Timer will continue to countdown, but will not show on the Display. When the time is up, a 3 second signal will sound.

Opening the oven door does not stop the Minute Timer countdown; however, it does stop any cooking or defrosting. Close the door and touch START to continue cooking or defrosting.

Microwave cooking

Be sure to read the **CONVECTION MICRO MENUS® Cookbook** packed with your oven. It contains information about:

- What microwave energy is.
- How food is cooked by microwave energy.
- What affects cooking speed and cooking evenness.
- Safety tips.
- Utensils to use when cooking in a microwave oven.
- Cooking times for different foods.

Important things to remember to get the best microwave cooking results.

- ALWAYS cook food for the minimum recommended cooking time. If necessary, add time in one or two minute periods, then check for doneness to avoid overcooking the food.
- Stir, turn or rearrange the food being cooked about halfway through the cooking time for most even doneness with all recipes.
- If a glass cover is not available, use wax paper, paper towels or microwave approved plastic wrap. Turn back a corner to vent steam during cooking.
- When popping commercially packaged microwave popcorn, place bag on lower oven rack.

Using “AUTO SENSOR”

The AUTO SENSOR control allows you to cook food in the oven without computing time or power level. All foods give off moisture as they cook. When the oven senses the right amount of moisture from the food, it will automatically determine the remaining time and power needed to finish cooking the food. You only need to touch AUTO SENSOR and a number pad (for a food setting), then START. If you like your food less done than average you may decrease the cooking time by touching the “LESS” (Number 7) Pad after selecting the category (before touching START). If you like your food more done than average, touch the “MORE” (Number 9) Pad after selecting the category to extend the time. You may add ingredients, stir, turn or rotate during the **timed** portion of the Auto Sensor cycle. However, “Err” will show on the Display if the door is opened during the first (automatic) part of the Auto Sensor cycle. If “Err” is displayed, touch CANCEL. To finish cooking, estimate the remaining time and reset the oven using the Cook cycle. **Do not reset the Auto Sensor.** See the AUTO SENSOR chart included with your oven and the AUTO SENSOR guide on the interior oven frame for examples of food to cook at each setting.

DO THIS...

- 1. Put food in the oven and close the door.**



- 2. Touch AUTO SENSOR.**

THIS HAPPENS...



The Display will show “AS-”



- 3. Touch Number Pad(s) for the cooking category you want. (See guide on interior oven frame and separate AUTO SENSOR chart.)**



The Display will show the AUTO SENSOR setting you touched. This example shows you selected category 2.



4. Touch LESS (7) or MORE (9) if desired. (Skip to step 5 if you do not wish to shorten or lengthen cooking time.)



The Category Number will flash until START is touched.

PAUSE may be used to stop the oven between the automatic and timed portion of the cycle. See "Using PAUSE" on page 19.



5. Touch START.



The oven automatically cooks at a preset Cook Power for that setting. **Do not open the oven door during this part of the cycle.**



When you hear 2 beeps, the Display will count down the remaining cooking time. The oven door can now be opened, if needed, to stir, turn or rearrange food.



BEEP BEEP BEEP BEEP

When the cooking time ends, "End" will show on the Display and 4 beeps will sound. (You can stop the beeping by opening the door or by touching CANCEL.) "End" will remain on the Display and a beep will sound every 60 seconds (to remind you that food is left in the oven) until the door is opened or CANCEL is touched. The Display will then show the time of day.

SLOW COOK

The AUTO SENSOR Slow Cook (number 0) setting is similar to a slow cooker. The oven will automatically cook, simmer and keep food warm at different preset cook powers for a minimum of 2-4 hours or a maximum of 12 hours (including Keep Warm). If you find that food needs a longer cooking time than the setting allows, you may extend the time by touching the MORE (number 9) Pad after you have touched SLOW COOK. The LESS (number 7) Pad cannot be used with this cycle.

Using SLOW COOK

1. Touch AUTO SENSOR. "AS" will be displayed and the Auto Sensor indicator will come on.
2. Touch number pad 0 (SLOW COOK). "AS-0" will be displayed.
3. Touch number pad 9 (MORE) if you wish to extend the cooking time. If not, skip to Step 4.
4. Touch START.

Two beeps will sound at the end of the automatic portion of the cooking cycle and "SL-C" will show on the Display. This tells you the door can be opened to stir, turn or add ingredients, if desired. When the food is done, you will hear four beeps and the oven will automatically keep the food warm for the remainder of the 12 hour cycle, or until you are ready to serve. Touch CANCEL when food is removed from the oven.

AUTO SENSOR operating hints

- All AUTO SENSOR cooking categories have preset Cook Powers.
- The COOK POWER Indicator Light does not come on during AUTO SENSOR Cycles.
- No Cook or Temperature cycles can be used with AUTO SENSOR Cycles.
- Quick Defrost and Keep Warm may be used with any AUTO SENSOR selection **except** SLOW COOK.
- Auto Start may be used with all Auto Sensor categories.
- Pause may be used with any AUTO SENSOR selection. It will stop the oven between the first and second part of the cycle. See "Using PAUSE," page 19.
- "Err" will show on the Display if the door is opened during the first part of any AUTO SENSOR cycle. "Err" will also show on the Display if AUTO SENSOR malfunctions. Touch CANCEL to clear the Display. **Do not reset AUTO SENSOR.** The food may overcook or undercook. To finish cooking food, estimate the remaining cooking time. Reset the oven using the COOK cycle and approximate Cook Power setting.

Microwave cooking at high cook power

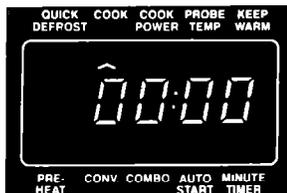
DO THIS...

THIS HAPPENS...

1. Put food in the oven and close the door.



2. Touch COOK.



The COOK Indicator Light will come on and the Display will show four 0's.



3. Touch Number Pads for the cooking time you want.



The Display will show the numbers you touched **in the order you touched them**. The example shows 1 minute, 30 seconds.

PAUSE may be set to stop the oven halfway through COOK to add ingredients, stir or rearrange food. See "Using PAUSE" on page 19.



4. Touch START.



The oven will automatically cook at high Cook Power.

The COOK Indicator Light will stay on to show that the oven is cooking.

The display counts down the time to show how much time is left.



BEEP BEEP BEEP BEEP

When the cooking time ends, "End" will show on the Display and 4 beeps will sound. (You can stop the beeping by opening the door or by touching CANCEL.) "End" will remain on the Display and a beep will sound every 60 seconds (to remind you that food is left in the oven) until the door is opened or CANCEL is touched. The Display will then show the time of day.

COOK can be preceded or followed by ROAST TIME, see page 29.

Changing the cooking time

You can change the cooking time before or after touching START.

1. Touch COOK.
2. Touch numbers for the new time.
3. Touch START.

Microwave cooking at lower cook powers

For best results, some recipes call for lower Cook Powers. The lower the Cook Power, the slower the cooking. Each Number Pad also stands for a different percentage of Cook Power. Many recipes in your CONVECTION MICRO MENUS® Cookbook tell you, by number, which Cook Power to use. Recipes in other books and magazines may tell you by name (HI, MED, LO, etc.) or percentage (10%, 50%, 80%, etc.).

The following chart gives the percentage of Cook Power each Number Pad stands for, and Cook Power name usually used.

automatic	100% of full power	HIGH	4	40% of full power
9	90% of full power		3	30% of full power MED-LOW/DEFROST
8	80% of full power		2	20% of full power
7	70% of full power	MED-HIGH	1	10% of full power LOW
6	60% of full power		0	timer (fan and light will be off)
5	50% of full power	MED		

DO THIS...

1. Put food in the oven and close the door.



2. Touch COOK.



3. Touch Number Pads for the cooking times you want.



4. Touch COOK POWER.



5. Touch a Number Pad for the Cook Power you want.

THIS HAPPENS...



The COOK Indicator Light will come on and the Display will show four 0's.



The Display will show the numbers you touched **in the order you touched them**. This example shows 7 minutes, 30 seconds.



The COOK POWER Indicator Light will come on and the Display will show "P-HI." This shows the oven is pre-programmed to cook at full (HIGH) power.



The Display will show what you touched. This example shows you touched Number Pad 5 for 50% of full power.



6. Touch START.



The COOK and COOK POWER Indicator Lights will stay on to show that the oven is cooking in the first cycle at a Cook Power other than high.



The Display counts down the time to show how much cooking time is left.



When the cooking time ends, "End" will show on the Display and 4 beeps will sound. (You can stop the beeping by opening the door or by touching CANCEL.) "End" will remain on the Display and a beep will sound every 60 seconds (to remind you that food is left in the oven) until the door is opened or CANCEL is touched. The Display will then show the time of day.

Changing cook power

You can change Cook Power before or after touching START.

- Touch COOK POWER.
- Touch a number for the new Cook Power.
- Touch START. The cycle will cook at the new Cook Power for the original time.
- OR...**
- Touch COOK POWER **twice** if you want to change a lower Cook Power to HIGH.
- Touch START.

Defrosting with microwave energy

Use QUICK DEFROST to thaw frozen food before cooking. For suggested defrost times, see the guide on the interior oven frame or in your CONVECTION MICRO MENUS® cookbook.

DO THIS...

THIS HAPPENS...

- 1. Put frozen food in the oven and close the door.**



2. Touch QUICK DEFROST.



The QUICK DEFROST Indicator Light will come on and the Display will show four 0's.

continued on next page

2 **4** **5**

3. Touch Number Pads for the defrosting time you want.

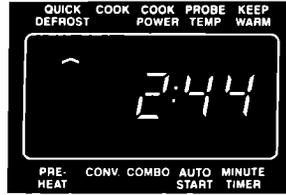


The Display will show the numbers you touched **in the order you touched them**. This example shows 2 minutes, 45 seconds.

PAUSE may be set to stop the oven halfway through QUICK DEFROST to allow you to turn over and/or rotate the food. See "Using PAUSE" on page 19.

START

4. Touch START.



The QUICK DEFROST Indicator Light will stay on to show that the oven is in the Quick Defrost cycle.

The Display counts down the time to show how much defrosting time is left.



When the cooking time ends, "End" will show on the Display and 4 beeps will sound. (You can stop the beeping by opening the door or by touching CANCEL.) "End" will remain on the Display and a beep will sound every 60 seconds (to remind you that food is left in the oven) until the door is opened or CANCEL is touched. The Display will then show the time of day.

Cooking automatically after defrosting

The controls can be set so the oven goes automatically from defrosting to the Cook Cycle you have touched in.

DO THIS...

1. Put food in the oven and close the door.

QUICK DEFROST

2. Touch QUICK DEFROST.

THIS HAPPENS...



The QUICK DEFROST Indicator Light will come on and the Display will show four 0's.

4 **3** **0**
SLOW COOK

3. Touch Number Pads for the defrosting time you want.



The Display will show the numbers you touched **in the order you touched them**. This example shows 4 minutes, 30 seconds.

COOK

4. Touch any cooking function except BROIL TIME. (This example shows use of the COOK cycle.)



The cooking cycle Indicator Light will come on and the Display will show four 0's.

3 **2** **5**

5. Touch Number Pads for the Cooking time you want.



The Display will show the numbers you touched **in the order you touched them**. This example shows 3 minutes, 25 seconds.

COOK POWER

6. Touch COOK POWER, if required. (Option: Skip to Step 8 if you want to cook at high power.)



The COOK POWER Indicator Light will come on and the Display will show "P-HI." This shows the oven is preprogrammed to cook at full power (HIGH).

6

7. Touch a Number Pad for the Cook Power you want.



The Display will show what you touched. This example shows you touched Number Pad 6 for 60% of full power.

START

8. Touch START.



When you touch START, the QUICK DEFROST Indicator Light will stay on. All other Indicator Lights will go off. The Display counts down the time to show how much time is left in the defrost cycle.

count down

When the defrost time ends, the oven automatically lets the food stand for the **same amount of time used for defrosting**. The QUICK DEFROST Indicator Light stays on and the Display counts down the standing time. **During the countdown the oven will be dark, and fan will be off.** If the door is opened during the standing time, the countdown will pause. Close the door and touch START to complete the standing time.

BEEP BEEP

When the standing time is over, you will hear 2 beeps and the cooking cycle will start.



The COOK Indicator Light will be on during the cooking cycle. The COOK POWER Indicator Light will also be on if **you are using a Cook Power other than high.**

count down

The Display counts down the time to show how much time is left in the Cook cycle.

continued on next page



When the Cook cycle ends, "End" will show on the Display and 4 beeps will sound. (You can stop the beeping by opening the door or by touching CANCEL.) "End" will remain on the Display and a beep will sound every 60 seconds (to remind you that food is left in the oven) until the door is opened or CANCEL is touched. The Display will then show the time of day.

Standing time

For best results, allow the food to stand for a while after defrosting. This helps equalize the temperature of the food for more even defrosting.

When any cooking function except BROIL TIME follows QUICK DEFROST, the oven automatically provides a standing time equal to the time touched in for QUICK DEFROST. The cooking cycle will begin after the automatic standing time. **NOTE: If the door is opened during the standing time, the timer will stop until the door is closed and START is touched.**

About the "QUICK DEFROST" Cycle

The electronic control oven automatically divides the time set for the QUICK DEFROST Cycle into three equal parts:

First part	80% of full Cook Power
Second part	50% of full Cook Power
Third part	20% of full Cook Power

This automatic step-down in Cook Power helps defrost food quickly and completely.

Changing or adding defrost time

You can change the defrosting time before or after touching START.

- Touch QUICK DEFROST.
- Touch numbers for new time.
- Touch START.

Any new time setting made while QUICK DEFROST is operating will continue the defrosting at 20% of full power.

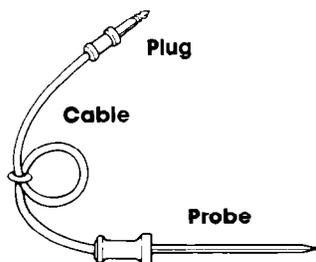
The best time to change the setting is near the end of the QUICK DEFROST Cycle.

- Open the door.
- Check the food with long-tined fork; if center area is hard frozen, set additional time. **Remember that standing time is necessary to complete defrosting.**
- Close the door and touch START to continue the cycle if no additional time is needed.
OR...
- Touch in new instructions for additional defrosting time.

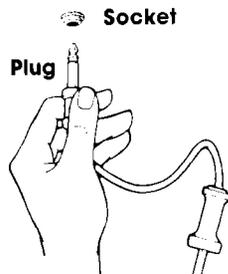
Cooking with the TEMPERATURE PROBE

The Temperature Probe helps take guesswork out of cooking roasts and larger casseroles. The probe is designed to turn off the oven when it senses the temperature you chose. The Temperature Probe can also be used in BAKE TIME (page 26) or ROAST TIME (page 30) to cook by temperature rather than time. See your CONVECTION MICRO MENUS™ Cookbook for helpful information in cooking different types of food.

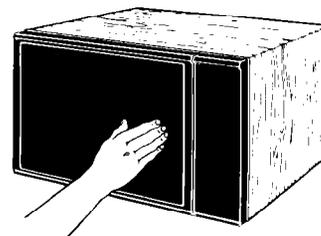
DO THIS...



1. Insert at least 1/3 of the temperature probe into the food.



2. Place food in the oven and plug the probe into the socket on the oven ceiling.



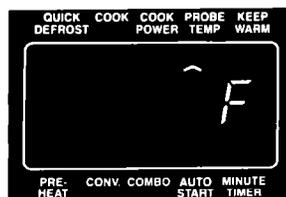
3. Make sure the probe does not touch any part of the oven interior. Close the door.

DO THIS...



4. Touch PROBE TEMP.

THIS HAPPENS...



The PROBE TEMP Indicator Light will come on and the Display will show "F."



5. Touch Number Pads for the desired final temperature between 90°F and 200°F.



The Display will show the numbers you touched **in the order you touched them**. This example shows a final cooked temperature of about 140°F.



6. Touch COOK POWER (Option: Touch START if you want to use high power.)



The COOK POWER Indicator Light will come on and the Display will show "P-HI." This shows the oven is pre-programmed to cook at full power (HIGH).



7. Touch the Number Pad for the Cook Power you want.



The Display will show what you touched. This example shows you touched Number Pad 6 for 60% of full power.

The PROBE TEMP and COOK POWER Indicator Lights will stay on.

continued on next page

START

8. Touch START.



The Display will show "COOL" to show the food is less than 90°F. As the food cooks, the Display will show the internal temperature of the food for every 5°F increase.



BEEP BEEP BEEP BEEP

When the probe senses the temperature you selected, the oven shuts off. "End" will show on the Display and 4 beeps will sound. (You can stop the beeping by opening the door or by touching CANCEL.) "End" will remain on the Display and a beep will sound every 60 seconds (to remind you that food is left in the oven) until the door is opened or CANCEL is touched. The Display will then show the time of day.

NOTE: "Err" will be displayed after START is touched, if an incorrect temperature has been selected (under 90°F or over 200°F).

Hints for using the temperature probe

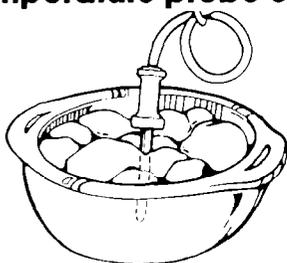
DO...	DON'T...
<ul style="list-style-type: none">• use hot pads when removing probe from food or food from oven.• stir foods during cooking when recommended.• stir soups, casseroles and drinks before serving.• cover roasts with foil and let stand a few minutes after microwave cooking. Remove foil if you decide to cook it longer.• remove the probe from the oven when not cooking by temperature.	<ul style="list-style-type: none">• let probe or probe cable touch any part of the oven interior.• let probe touch foil (if used). Foil can be kept away from probe with wooden toothpicks. Remove foil if arcing occurs.• use paper, plastic wrap or plastic containers. They will be in the oven too long.• force probe into frozen foods.• use probe for foods that need to simmer.

NOTE: Some foods are started using a timed cycle and finished by using a temperature cycle. You can set PROBE TEMP to follow COOK or QUICK DEFROST, to avoid the need to reset the oven half way through cooking. PROBE TEMP can be programmed with the temperature probe out. The oven will then pause between cycles. "Prob" will show on the Display to remind you to plug in the probe. Touch START to continue cooking.

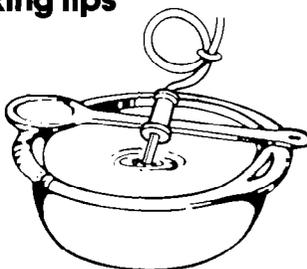
Changing the temperature setting

- When using the Temperature Probe, PROBE TEMP settings can be changed before or during operation.
- Touch PROBE TEMP.
 - Touch number for new temperature.
 - Touch START. The oven will continue cooking to the new temperature. If the new temperature is lower than the temperature of the food, the oven will shut off.

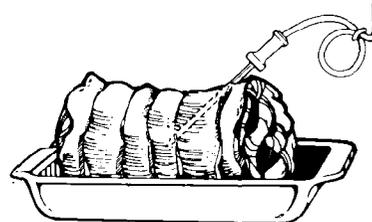
Temperature probe cooking tips



For casseroles, the tip of the probe should be in the center of the food. Stir foods when recommended. Replace the probe.



For liquids, balance the probe on a wooden spoon or spatula so the tip of the probe is in the center of the liquid.



For roasts, the tip of the probe should be in the center of the largest muscle, but not touching fat or bone.

- Casseroles cooked using the Temperature Probe should be made from precooked foods. Do not use raw meats, raw vegetables and cream sauces in casseroles.
- Dry casseroles do not work well.
- Thaw frozen casseroles and meats in the convection microwave oven before inserting the probe.
- If you are cooking individual servings such as mugs of soup, check the probe setting in several of the items – all the mugs may not heat at the same rate.
- Dry meat loaf mixtures don't work well.
- Remember that roasts may vary in size, shape and composition. Use the timings for minutes per pound as a guide as well as the Temperature Probe.

Cleaning the probe

1. Remove probe from convection microwave oven using hot pads.
2. Wipe probe with a hot sudsy cloth. Use a plastic scouring pad to remove stubborn foods.

Using PAUSE

Your microwave oven can be set to pause halfway through QUICK DEFROST or COOK, after the automatic part of AUTO SENSOR, and between COOK and ROAST TIME or ROAST TIME and COOK to allow you to stir or turn the food, to add ingredients or to plug in the probe.

Using PAUSE with QUICK DEFROST

DO THIS...

1. Put frozen food in the oven and close the door.

QUICK DEFROST

2. Touch **QUICK DEFROST**.

THIS HAPPENS...



The QUICK DEFROST Indicator Light will come on and the Display will show four 0's.

continued on next page



3. Touch Number Pads for the defrosting time you want.



The Display will show the number you touched **in the order you touched them**. This example shows 2 minutes, 30 seconds.



4. Touch PAUSE.



The Display will show "PAUSE:"



5. Touch START.



The QUICK DEFROST Indicator Light will stay on to show that the oven is in the Quick Defrost Cycle.

The Display counts down the time to show how much defrosting time is left.

BEEP BEEP

Halfway through QUICK DEFROST, two beeps will sound and the oven will shut off.



"PAUSE" will show on the Display and the Quick DEFROST Indicator Light will stay on.

6. Turn over or rearrange food being defrosted. Close door.
NOTE: Oven will remain off until you touch START.



7. Touch START.



The QUICK DEFROST Indicator Light stays on and the Display counts down the remaining time.



BEEP BEEP BEEP BEEP

When the defrost time ends, "End" will show on the Display and 4 beeps will sound. (You can stop the beeping by opening the door or by touching CANCEL.) "End" will remain on the Display and a beep will sound every 60 seconds (to remind you that food is left in the oven) until the door is opened or CANCEL is touched. The Display will then show the time of day.

Using PAUSE with AUTO SENSOR

Pause may be used to stop the oven when it advances from the automatic portion of the cycle to the timed portion.

1. Put food in the oven and close the door.
2. Touch AUTO SENSOR.
3. Touch a Number Pad for the cooking category you want.
4. Touch PAUSE.
5. Touch START.

When the first part of the AUTO SENSOR cycle is done, you will hear 2 beeps and the oven will shut off.

6. Open the door. Stir or turn the food or add ingredients. Close the door.
7. Touch START to continue.

NOTE: The oven will remain off until you touch START.

Adding PAUSE to cycle in operation

Pause can be added to COOK, QUICK DEFROST or AUTO SENSOR or between COOK and ROAST TIME after START has been touched.

1. Touch PAUSE.
2. Touch START.

Adding PAUSE to cycle not in operation

Pause can be added to a cycle that has been programmed, but has not started.

1. Touch cycle that you want to pause.
2. Touch PAUSE.
3. Touch START.

The oven will automatically stop halfway through QUICK DEFROST or COOK to allow you to turn over or rearrange the food being cooked or defrosted. It will stop after the first part of the AUTO SENSOR or between COOK and ROAST TIME cycles to allow you to stir, rotate or rearrange food or to add ingredients. **NOTE: The oven will remain off until you touch START.**

Pause is automatic between timed and temperature cycles

PAUSE is automatic between a timed cooking cycle and a temperature cycle. Your oven will automatically pause between a timed (COOK or QUICK DEFROST) cycle and a temperature (PROBE TEMP or AUTO TEMP) cycle. "Prob" will show on the Display to remind you to plug in the probe. Touch START to continue cooking.

Using KEEP WARM

Hot, cooked foods can be safely kept warm in your convection microwave oven for up to 99 minutes, 99 seconds (about 1 hour, 40 minutes). KEEP WARM can be used by itself, or it can automatically follow a cooking cycle, PROBE TEMP or AUTO SENSOR cycle.

DO THIS...

1. Put cooked, hot food in oven and close door.



2. Touch KEEP WARM.



3. Touch START.

THIS HAPPENS...



The KEEP WARM Indicator Light will come on. The Display will show the time of day.



The KEEP WARM Indicator Light will stay on. The oven light and the fan will come on. The Display will continue to show the time of day.

- KEEP WARM operates for up to 99 minutes, 99 seconds.
- **Opening the oven door cancels KEEP WARM.** Close the door and touch KEEP WARM, then START if additional KEEP WARM time is desired.
- Foods cooked covered should be covered during KEEP WARM.
- Pastry items (pies, turnovers, etc.) should be uncovered during KEEP WARM.
- Complete meals kept warm on a dinner plate should be covered during KEEP WARM.
- The use of more than one complete KEEP WARM (about 1 hour, 40 minutes) is not recommended. The quality of some foods will suffer with extended time.

To automatically follow another cycle

- **While you are touching in cooking instructions**, touch KEEP WARM before touching START.
OR...
- **After the oven starts operating**, touch KEEP WARM and then START.
- When the last cooking cycle is over you will hear 4 beeps. The KEEP WARM Indicator Light will come on and the time of day will be displayed while the oven continues to run.
- KEEP WARM will follow AUTO SENSOR (except for SLOW COOK), PROBE TEMP, QUICK DEFROST, COOK, BAKE TIME, ROAST TIME, BROIL TIME or AUTO TEMP.

Using AUTO START

The oven can be set to start automatically at a later time. Use AUTO START to delay the start of cooking for up to 11 hours, 59 minutes.

DO THIS...

1. Make sure the Clock is set to correct time of day. See page 6 if any change is needed.
2. Put food in oven and close the door. (See CAUTION on page 25.)



3. Touch AUTO START.



4. Touch Number Pads for the time of day you want cooking to start.

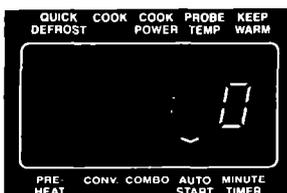


5. Touch COOK.



6. Touch Number Pads for the cooking time you want.

THIS HAPPENS...



The AUTO START Indicator Light will come on and the Display will show "0".



The Display will show the numbers you touched **in the order you touched them**. This example shows 5 o'clock.



The COOK Indicator Light will come on and the Display will show four 0's.



The Display will show the numbers you touched **in the order you touched them**. This example shows 8 minutes, 30 seconds.

continued on next page

COOK
POWER

7. Touch COOK POWER.
(Option: Skip to step 9
if you want to use high
power.)



The COOK POWER Indicator Light will come on and the Display will show "P-HI." This shows the oven is pre-programmed to cook at full (HIGH) power.

7
LESS

**8. Touch a Number Pad for
the Cook Power you want.**



The Display will show what you touched. This example shows you touched Number Pad 7 for 70% of full power.

START

9. Touch START.



The AUTO START Indicator Light will stay on. All other Indicator Lights will go off. The Display will go back to showing the time of day.



When the time of day reaches the time you have set in AUTO START, the AUTO START Indicator Light will go off, the COOK and COOK POWER Indicator Lights will come on, the cooking time will show on the Display, and the oven will start cooking.

count
down

The Display counts down the time to show how much time is left in COOK.

End

BEEP BEEP BEEP BEEP

When the cooking time ends, "End" will show on the Display and 4 beeps will sound. (You can stop the beeping by opening the door or by touching CANCEL.) "End" will remain on the Display and a beep will sound every 60 seconds (to remind you that food is left in the oven) until the door is opened or CANCEL is touched. The Display will then show the time of day.

NOTE: If the oven light and fan come on when you touch START, the Start Time has not been set correctly. Open and close door, reprogram AUTO START time, then touch START.

Additional information

- Additional cycles can be set when using AUTO START. Follow instructions under the proper heading (Using AUTO SENSOR, Defrosting, Using KEEP WARM, Convection Cooking, Combination Cooking) either before or after you touch START.
- You can change times, or add cycles at any time during the AUTO START cycle.
 1. Touch the COOK Cycle you wish to change or add.
 2. Touch numbers for new time.
 3. Touch COOK POWER, if desired.
 4. Touch number for new Cook Power, or touch COOK POWER again if high is desired.
 5. Touch START.
- Opening the door does not stop Auto Start operation.

CAUTION:

Use foods that will not go bad or spoil while waiting for cooking to start. Avoid using foods with milk or eggs, cream soups, cooked meats, poultry or fish, or any item with baking powder or yeast.

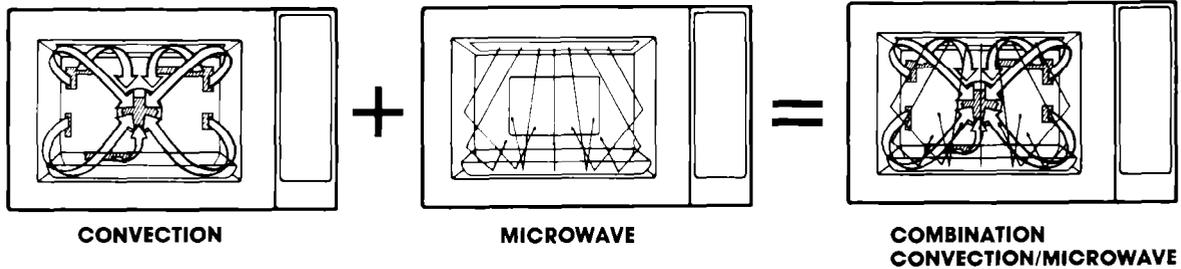
Smoked or frozen meats may be used; so can vegetables, fruits and casserole-type foods.

Any food that has to wait for cooking to start should be very cold or frozen before it is put in the oven. MOST UNFROZEN FOODS SHOULD NEVER STAND AT ROOM TEMPERATURE MORE THAN TWO HOURS BEFORE COOKING STARTS.

Convection cooking

Convection cooking circulates hot air through the oven cavity with a fan. The constantly moving air surrounds the food to heat the outer portion quickly. This seals in moisture and juices for more flavorful foods. This oven uses convection cooking whenever BAKE TIME, BROIL TIME, ROAST TIME or AUTO TEMP are programmed. **DO NOT USE THE OVEN WITHOUT THE REMOVABLE TRAY IN PLACE.** The bottom metal tray is designed with feet so that air can circulate under the tray for even cooking.

Sometimes Combination Convection Microwave cooking is suggested to achieve the proper cooking results. In this cooking process the convection heat and microwave energy alternate automatically.



Precautions for convection and combination cooking

- Use oven mitts to remove hot cooking utensils and hot oven racks. The interior surfaces of the oven will be hot.
- Use care to prevent burns whenever oven is in operation. The oven vent openings and surfaces near these openings, the oven door glass, door trim, etc. and interior oven surfaces can become hot enough to burn. Do not touch, or allow clothing or other flammable materials to contact these surfaces during, or after use, until they have had time to cool.
- Do not cover bottom of oven or oven racks with aluminum foil. This would prevent proper air flow and result in poor cooking performance.

Using BAKE TIME

The BAKE TIME cycle can be programmed up to 199 minutes, 99 seconds of convection cooking time. Set time in minutes and seconds. **NOTE: 3 hours, 30 seconds will be set 180:30.** Five digit numbers may be used as long as 1 is the first number used. **NOTE: 200 minutes may be set as 199:60.** This cycle will cook at 375°F unless another cooking temperature has been selected. BAKE TIME can be used with AUTO START, QUICK DEFROST and KEEP WARM. When using the Temperature Probe in BAKE TIME, the PROBE TEMP replaces the cooking time. This cycle requires preheating before the food is placed in the oven. The preheated time will vary depending on the set cooking temperature. The preheating time will be approximately 8-11 minutes.

DO THIS...

THIS HAPPENS...



1. Touch BAKE TIME.



The CONV. Indicator Light will come on and the Display will show "00:00."



2. Touch the Number Pads for the desired cooking time.



The Display will show the numbers you touched **in the order you touched them**. This example shows 90 minutes.

NOTE: The oven will automatically cook at the preset temperature of 375°F. See "Using Temp Reset," page 31 if a different temperature is desired.



3. Touch START.



The PREHEAT and CONV. Indicator Lights will come on and the Display will show "PREH."

When the oven temperature reaches 150°F, the Display will show the internal oven temperature for every 5°F increase.

BEEP BEEP



After the oven temperature has reached the temperature you selected, the oven beeps twice and the PREHEAT Indicator Light goes off. The set temperature will stay on the Display and the oven will hold that temperature up to 30 minutes, or until the food has been placed in the oven and START has been touched. **NOTE: The oven will automatically shut off and the Display will show the time of day if food has not been placed in the oven within 30 minutes.**

4. Place food in oven. Close the door.

The Display will show the programmed cooking time.



5. Touch START again.



The Display will count down the cooking time to show how much time is left in the cooking cycle.



BEEP BEEP BEEP BEEP

When the Bake Time cycle ends, "End" will show on the Display and 4 beeps will sound. (You can stop the beeping by opening the door or by touching CANCEL.) "End" will remain on the Display and a beep will sound every 60 seconds (to remind you that food is left in the oven) until the door is opened or CANCEL is touched. The display will then show the time of day. The fan will continue to run until interior oven parts have started to cool.

Using the temperature probe with BAKE TIME

1. Touch PROBE TEMP.
2. Touch Number Pads for the desired final temperature.
3. Touch BAKE TIME. (Touch TEMP RESET to change oven temperature, if desired.)
4. Touch START.
5. When oven reaches selected temperature:
 - a. Insert the Temperature Probe into the food. (See page 17.)
 - b. Place food in the oven and plug the probe into the socket on the oven ceiling. (Use care when inserting the probe. Oven walls will be hot.) Close the door.
 - c. Touch START.

Changing settings

- To change a time setting before or after starting the oven, touch BAKE TIME, touch number pads for new time setting, then touch START.
- To change a temperature setting before or after starting the oven, touch TEMP RESET, touch number pad for new temperature setting, then touch START.
- Microwave power can be added to BAKE TIME by touching COOK POWER, the new power level, then START. (See "Combination cooking," page 30.) "P-0" will show on the Display when COOK POWER is touched.
- If probe is plugged in during Preheat, the Display will show "Prob" for 2 seconds, then "Err." "Err" will stay on the Display until probe is removed. Remove probe. Close the door. The Display will return to the previous setting. Touch START.

Using BROIL TIME

The BROIL TIME cycle automatically cooks food items at 450°F in convection cooking. This cycle can be set up to 199 minutes, 99 seconds of cooking time. No other cooking cycle can be used with Broil Time. This cycle requires preheating before the food is placed in the oven. The preheating time will be approximately 15-20 minutes. **NOTE: Oven must be preheated before broiling.**

Always place food directly on the lower oven rack when broiling. A utensil is not required.

NOTE: Some smoke coming from the vent at the back of the oven is normal when broiling.

DO THIS...



1. Touch BROIL TIME.



2. Touch Number Pads for the broiling time you want.

START

3. Touch START.

THIS HAPPENS...



The CONV. Indicator Light will come on and the Display will show "00:00"



The Display will show the numbers you touched **in the order you touched them**. This example shows 12 minutes.



The PREHEAT and CONV. Indicator Lights will come on and the Display will show "PREH."

When the oven temperature reaches 150°F, the Display will show the internal oven temperature for every 5°F increase.

BEEP BEEP



When the oven temperature reaches 450°F, the oven beeps twice and the PREHEAT Indicator Light goes off. "450F" will stay on the Display and the oven will hold that temperature up to 30 minutes, or until the food has been placed in the oven and START has been touched. **NOTE: The oven will automatically shut off and the Display will show the time of day if food has not been placed in the oven within 30 minutes.**

4. Place food in oven. Close the door.

The Display will show the programmed broiling time.



5. Touch START again.



The Display will count down the cooking time to show how much time is left in the broiling cycle.

Check the food just before the broiling time is up. If food needs more cooking time, **add before broil time is finished.** This prevents the oven from going into another PREHEAT cycle.



When the Broil Time cycle ends, "End" will show on the Display and 4 beeps will sound. (You can stop the beeping by opening the door or by touching CANCEL.) "End" will remain on the Display and a beep will sound every 60 seconds (to remind you that food is left in the oven) until the door is opened or CANCEL is touched. The display will then show the time of day. The fan will continue to run until internal oven parts have started to cool.

Changing settings

- Broiling time may be changed before or after starting the cycle. Touch BROIL TIME, new broiling time, then START.
- **Always check food for doneness just before the broiling time is finished.** This allows you to add additional cooking time, if required.

Combination cooking

Combination cooking alternates convection hot air cooking with microwave energy cooking. This type of cooking is generally used for roasts and large cuts of meats. Refer to CONVECTION MICRO MENUS® Cookbook for suggested recipes and times.

Using ROAST TIME/COMBO

The ROAST TIME/COMBO cycle can be programmed up to 199 minutes, 99 seconds of combination cooking time. This cycle will cook at 350°F unless another cooking temperature has been selected. Once the cooking temperature has been reached, the oven maintains that temperature while it adds a 10% or selected microwave Cook Power. ROAST TIME/COMBO can be used with AUTO START, QUICK DEFROST and KEEP WARM. When using the Temperature Probe in ROAST TIME/COMBO, the PROBE TEMP replaces the cooking time. **NOTE: It is easier to use AUTO TEMP/COMBO when cooking with the temperature probe. See page 32.** The microwave Cook Cycle may be set to either precede or follow ROAST TIME/COMBO, if desired.

The oven does not automatically preheat in this cycle. If preheat is desired, touch ROAST TIME/COMBO twice, the desired cooking time, then START. The oven will preheat to set temperature and hold for up to 30 minutes. Place food in the oven and touch START.

DO THIS...



1. Touch ROAST TIME/COMBO.



2. Touch the Number Pads for the desired cooking time.

NOTE: The oven will automatically cook at the preset temperature of 350°F and 10% microwave cook power. If a different cooking temperature or microwave cook power is desired, see "Changing settings" on page 31.

START

3. Touch START.

THIS HAPPENS...



The COMBO Indicator Light will come on and the Display will show "000:00"



The Display will show the numbers you touched **in the order you touched them**. This example shows 120 minutes (2 hours).



The COMBO Indicator Light will come on and the Display will count down the cooking time to show how much time is left in the cooking cycle.



When the Roast Time/Combo cycle ends, "End" will show on the Display and 4 beeps will sound. (You can stop the beeping by opening the door or by touching CANCEL.) "End" will remain on the Display and a beep will sound every 60 seconds (to remind you that food is left in the oven) until the door is opened or CANCEL is touched. The display will then show the time of day. The fan will continue to run until internal oven parts have started to cool.

Using the Temperature Probe with ROAST TIME/COMBO

1. Insert the temperature probe into the food. (See page 17.)
2. Place food in the oven and plug the probe into the socket on the oven ceiling. Close the door. (See page 17.)
3. Touch PROBE TEMP.
4. Touch Number Pads for the desired final temperature.
5. Touch ROAST TIME/COMBO.
6. Touch START.

Changing settings

- To change a **time** setting before or after starting the oven, touch ROAST TIME/COMBO, touch number pads for new time setting, then touch START.
- To change a **temperature** setting before or after starting the oven, touch TEMP RESET, touch the number pads for new temperature setting, then touch START.
- To change the microwave Cook Power before or after starting the oven, touch COOK POWER, touch the number pad for the new power level, then START.
- The oven will not accept roasting times longer than 199 minutes 99 seconds. It also will not accept a 5 digit number beginning with 2 through 9. Cancel and reset. **(Example: Set 200:00 as 199:60).**

Using TEMP RESET

TEMP RESET allows pre-programmed convection temperatures in BAKE TIME, ROAST TIME and AUTO TEMP to be changed before or after starting the oven.

To change a temperature setting:

- Touch TEMP RESET.
- Touch Number Pads for new temperature setting.
- Touch START.

Using AUTO TEMP/COMBO

AUTO TEMP/COMBO provides a short-cut method for setting commonly used convection microwave combination probe temperature settings. This cycle includes preset cooking temperatures and microwave cook power settings, plus nine preset probe temperature settings (110°F-190°F). It is preset to cook at 350°F (unless another cooking temperature has been selected.) Once the selected cooking temperature has been reached, the oven maintains that temperature while it adds 10% or selected microwave Cook Power. AUTO TEMP/COMBO can be used with AUTO START, QUICK DEFROST and KEEP WARM. It can also be set to follow a microwave only cooking cycle.

The oven does not preheat in this cycle.

DO THIS...

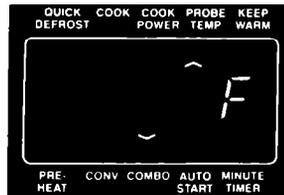
1. Insert at least $\frac{1}{3}$ of the temperature probe into the food.
2. Place food in the oven and plug the probe into the socket in the top of the oven cavity.
3. **Make sure the probe does not touch any part of the oven interior. Close the door.**

DO THIS...



4. Touch AUTO TEMP/COMBO.

THIS HAPPENS...



The COMBO and PROBE TEMP Indicator Lights will come on and the Display will show "F."



5. Touch the Number Pad (1-9) for the desired final temperature (110°-190°F).



The Display will show the temperature you selected. This example shows you touched Number 4 for a final cooked temperature of 140°F.

NOTE: The oven will automatically cook at the preset temperature of 350°F with 10% microwave cook power. If a different cooking temperature or microwave cook power is desired, see "Changing settings" on page 33.

START

6. Touch START.



The COMBO and PROBE TEMP Indicator Lights will stay on.

The Display will show "COOL" to show the food is less than 90°F. As the food cooks, the Display will show the internal temperature of the food for every 5°F increase.



BEEP BEEP BEEP BEEP

When the probe senses the temperature you selected, the oven shuts off. "End" will show on the Display and 4 beeps will sound. (You can stop the beeping by opening the door or by touching CANCEL.) "End" will remain on the Display and a beep will sound every 60 seconds (to remind you that food is left in the oven) until the door is opened or CANCEL is touched. The display will then show the time of day.

The fan will continue to run until internal oven parts have started to cool.

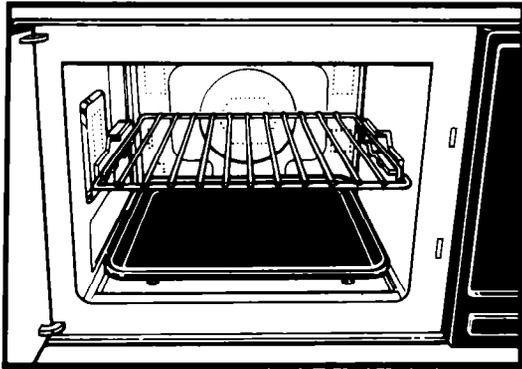
Changing settings

- To change a temperature setting before or after starting the oven, touch TEMP RESET, touch the number pads for new temperature setting, then touch START.
- To change the microwave Cook Power before or after starting the oven, touch COOK POWER, touch the number pad for the new power level, then START.

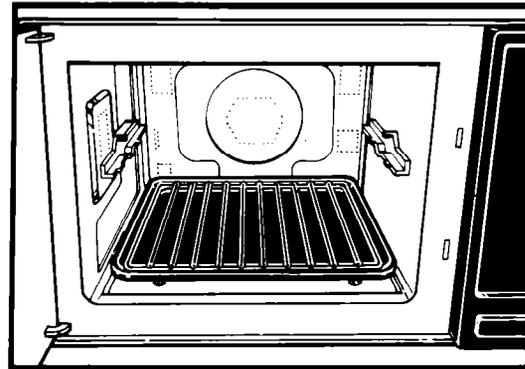
NOTE: "Prob" will show on the Display if the Temperature Probe is not plugged in when START is touched.

Bi-level cooking

The metal oven rack is designed for use in this convection microwave oven. The round baking sheet is also designed for use in this oven, but should be used for convection cooking only. For convection bi-level baking of cakes, cookies, etc., use the removable tray for a second baking sheet.



Upper rack is used for bi-level cooking for items such as layer cakes and cookies.



The **lower rack** inserted in the removable tray is used for roasting or broiling in convection and combination cooking. This allows better air circulation and juices to drain away from food.

The **round baking sheet** is the correct size to allow for proper air flow in convection cooking. When using the round baking sheet, place it in the center of the upper rack for bi-level cooking or on the bottom rack for one level cooking.

1. Do not use the rack on the bottom of the oven in place of the removable tray.
2. Be sure that the oven rack and round baking sheet are not touching the interior oven walls before cooking.

Other operating hints

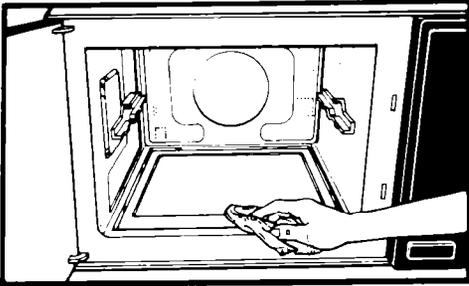
These are a number of things you can do with your convection microwave oven. Some will be reminders. Others will be mentioned for the first time.

1. **To double check settings** while the oven is running, touch the command pad for the setting you want to check. The instruction programmed for that pad will show on the Display for 5 seconds. Then the Display will return to the previous display.
2. **To stop the oven while it is running:**
 - Open the door. The oven will stop. You can restart it by closing the door and touching START.
 - Touch CANCEL. All instructions will be erased. You must touch in new instructions.
3. If you touch two instructions into the same cycle, the second set of instructions will cancel the first.
4. Your Convection Microwave oven has a self-diagnostic system built in to it. If you see FAIL, FAIL 2, FAIL 3, or FAIL 4 on the Display, call the Whirlpool COOL-LINE[®] service assistance telephone number. (See page 40 for further information.)
5. If foods undercook during convection and combination cooking:
 - Follow reliable recipes exactly for ingredients, utensils, cooking time and proper rack position.
 - When appropriate, preheat the oven before placing the food in it.
 - Make sure foods are prepared and ready to place in the oven. This reduces heat loss due to door being open.
 - Roasts or broiled meats should be cooked directly on the lower rack for proper cooking.
 - Some foods may require additional cooking time.
 - Lower than normal electric supply will cause undercooking. Your electric company can tell you if the line voltage is low.
 - Some meat thermometers are not reliable or accurate in a convection oven.
6. Preheating times in the convection oven will vary depending on preheat temperature programmed, room temperature and differences in power supply voltage.

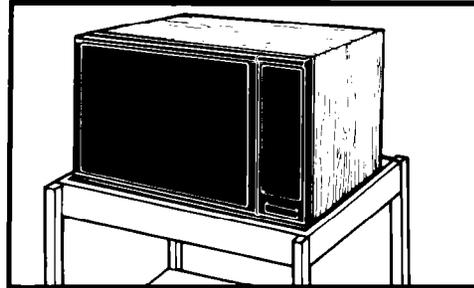
Installation instructions

BEFORE YOU BEGIN, READ THE FOLLOWING INSTRUCTIONS COMPLETELY AND CAREFULLY.

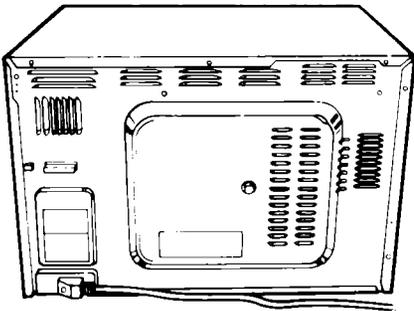
Installing your convection microwave oven



1. Empty the oven and clean inside it with a soft, damp cloth. Check for damage such as misaligned door, damage around the door or dents inside the oven or on the exterior. If there is any damage, please do not operate the unit until it has been checked by an authorized Whirlpool service technician and any repairs made.

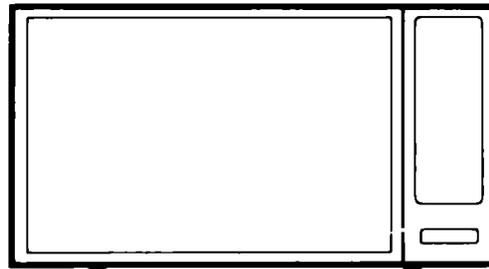


2. Put the oven on a cart, counter, table or shelf that is strong enough to hold the oven, the food and the utensils you put in it. **(The control panel side of the unit is the heavy side. Use care when handling.)** The weight of the oven is approximately 56 lbs. (25.2 kg).



3. **Do not block the vent and air intake openings on the back and the bottom of the oven.** Blocking vent or air intake openings can cause poor cooking results.

Make sure the oven legs are in place. Do not set the oven on anything that will block the air intake openings.



4. **Do not install the oven next to a conventional surface unit or in any area where excessive heat and steam are generated.** This could damage the outside of the cabinet.

continued on next page

5. Electrical requirements

Observe all governing codes and ordinances.

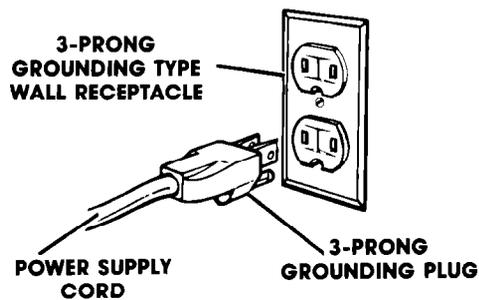
A 120 Volt, 60 Hz, AC only, 15 or 20 amp fused electrical supply is required. (Time-delay fuse is recommended.) It is recommended that a separate circuit serving only this appliance be provided.

6. GROUNDING INSTRUCTIONS

WARNING: Improper use of the grounding plug can result in a risk of electrical shock.

DO NOT, UNDER ANY CIRCUMSTANCES, REMOVE THE POWER SUPPLY CORD GROUNDING PRONG.

7. For your personal safety, 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 polarized 3-prong grounding plug. It must be plugged into a correct polarized mating 3-prong grounding type wall receptacle, properly installed and grounded in accordance with the National Electrical Code and local codes and ordinances. If a mating wall receptacle is not

available or if you are not sure if the wall receptacle is properly grounded and polarized, have it checked by a qualified electrician.

It is the personal responsibility and obligation of the customer to have a properly grounded and correctly polarized 3-prong wall receptacle installed by a qualified electrician.

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

It is **NOT** recommended to use an extension cord with your oven, but if you find it necessary to do so temporarily (until a properly grounded and polarized 3-prong receptacle is installed), use only a heavy duty UL listed 3-wire grounding type extension cord containing three 16-gauge (minimum) copper wires. It must not be longer than 10 feet (cords longer than 10 feet may affect the cooking performance of your oven). The plug on the extension cord must fit into a 3-prong grounding type wall receptacle (as shown on this page) and the receptacle end of the extension cord must accept the 3-prong grounding plug of the oven.



8. To test the microwave oven, plug it into the proper electrical outlet. Put about one cup (250 mL) of room temperature water in a glass container on the removable tray in the oven. Close the door. Make sure it latches. Follow the directions on page 11 to set the oven to COOK for 1½ minutes. When the timer is up, the water should be warm.

9. This convection microwave oven is designed for use in the household only and must not be used for commercial purposes.

DO NOT remove the outer case, door, or control panel at any time. The unit is equipped with high voltage and should not be serviced unless by an authorized Whirlpool trained service technician.

SAVE THESE INSTRUCTIONS

Caring for your convection microwave oven

BE SURE THE OVEN IS OFF AND COOL BEFORE CLEANING. Keep the oven interior clean and dry.

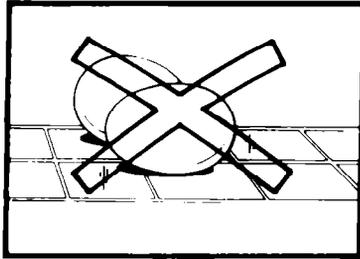
Cleaning chart

PART	WHAT TO USE	HOW TO CLEAN AND CARE FOR
Exterior surfaces	Soft cloth and warm soapy water. Nylon or plastic scrubbing pad for stubborn spots.	<ul style="list-style-type: none">• Wash, rinse and dry well when oven is cool.• Do not use abrasive or harsh cleansers.• Do not place hot dishes on cabinet exterior.
Control panel	Damp soft cloth or spray glass cleaner.	<ul style="list-style-type: none">• Wipe clean with a damp cloth.• Follow directions provided with cleaner.• Do not spray directly on control panel. Use a soft cloth.• Do not scrub or use any sort of chemical cleaners.• Avoid use of excess water or spray.
Oven door	Spray glass cleaner; Soft cloth and warm soapy water.	<ul style="list-style-type: none">• Make sure oven is cool.• Follow directions provided with cleaner.• Wash, rinse and dry well with a soft cloth.• Do not use abrasive or harsh cleansers.
Interior walls	Soft cloth or sponge and warm soapy water. If heavier soil builds up: Commercial oven cleaner (not a spray).	<ul style="list-style-type: none">• Clean after each use.• Wipe down oven interior when cool.• Follow directions provided with cleaner.• Do not let oven cleaner get in holes on the back wall of the oven cavity.
CAUTION: GREASE OR SOIL ACCUMULATION MAY CAUSE SLOWER COOKING TIMES OR CAUSE A FIRE HAZARD.		
Top of oven	Soft cloth and warm soapy water.	<ul style="list-style-type: none">• Wash, rinse and dry well.• Clean frequently.
Removable tray	Automatic dishwasher or warm, soapy water and a soft cloth.	<ul style="list-style-type: none">• Wash with other cooking utensils.• Clean frequently.• Do not use abrasive or harsh cleansers.• Do not cook without bottom metal tray in place.
Round baking sheet	Soft cloth and warm soapy water.	<ul style="list-style-type: none">• Wash, rinse and dry well.• Do not cut directly on baking sheet.
Oven racks	Soft cloth and warm soapy water. Soapy scouring pad.	<ul style="list-style-type: none">• Wash, rinse and dry well.• Clean stubborn areas with soapy scouring pad.
Temperature probe	Damp cloth or soft sponge.	<ul style="list-style-type: none">• Gently wipe off probe after each use.• Do not use abrasive or harsh cleansers or scouring pads.• Do not drop the probe.

Microwave operating safety precautions

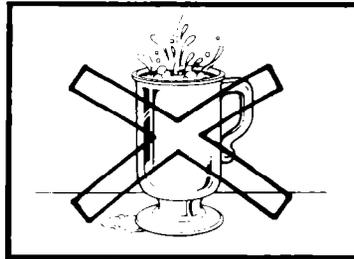


WARNING: DO NOT use oven until you have read and understand **ALL** the information on safe use.

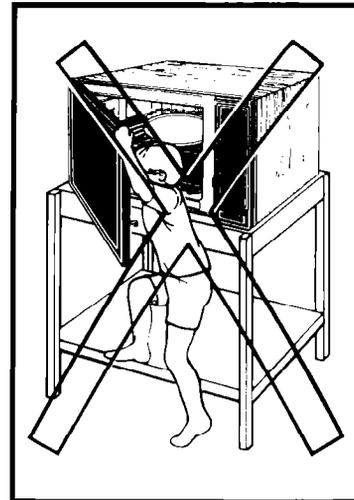


NEVER COOK OR REHEAT A WHOLE EGG.

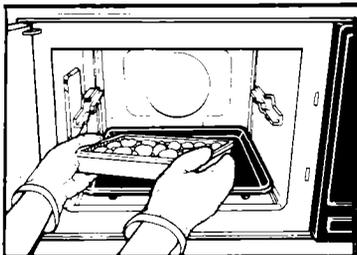
Steam build-up in whole eggs may cause them to burst and burn you, and possibly damage the oven. Slice hard boiled eggs before heating. In rare instances, poached eggs have been known to explode. Cover poached eggs and allow a standing time of one minute before cutting into them.



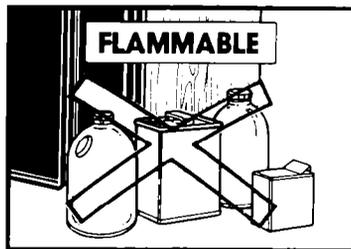
Liquids heated in certain containers (especially cylindrical-shaped containers) may become overheated. The liquid may splash out with a loud noise during or after heating or when adding ingredients (coffee, etc.) resulting in harm to the oven and possible personal injury. For best results stir any liquid several times before heating or reheating.



NEVER lean on the door or allow a child to swing on it when the door is open. Injury could result.



USE OVEN MITTS. Microwave energy does not heat containers, but the hot food does. Convection oven cooking makes food, utensil and oven walls hot.

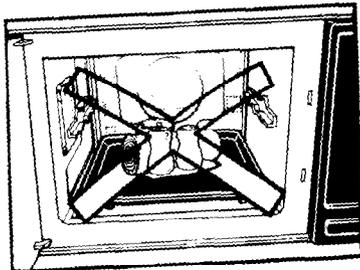


DO NOT heat, store or use flammable or inflammable materials in or near the oven.

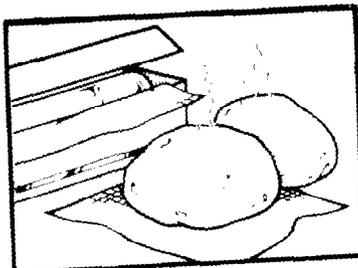
DO NOT can foods in the oven. Closed glass jars may explode resulting in damage to the oven or possible personal injury.

DO NOT use the oven to sterilize objects (baby bottles, etc.). It is difficult to maintain the high temperature required for safe sterilization.

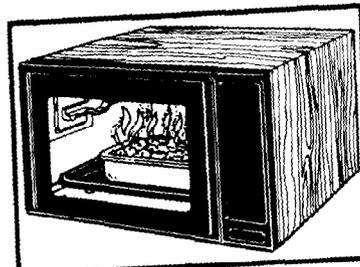
CAUTION: DO NOT use the oven until you have read and understand ALL precautions to prevent damage to the oven.



DO NOT use the oven for storage. Do not leave paper products, books or cooking utensils in the oven when not in use. Fire may result if someone accidentally starts the oven. Don't let anything touch the top of the oven.

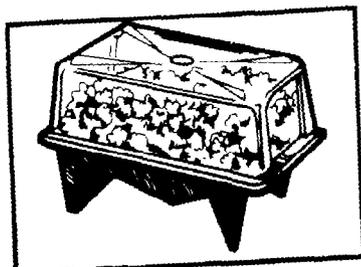


DO NOT OVERCOOK POTATOES. Fire could result. At the end of the recommended cooking time they should be slightly firm. Wrap in foil and set aside for 5 minutes. They will finish cooking while standing.



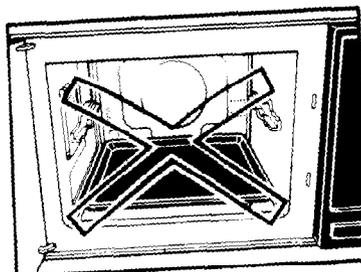
If a fire should start in the oven cavity:

- keep door closed
- turn oven off
- disconnect the power supply at the cord, fuse box or circuit breaker box.

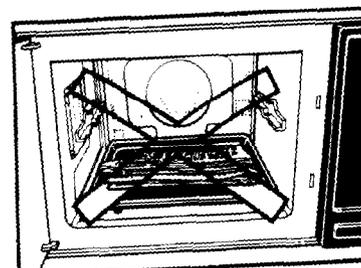


DO NOT pop popcorn, except in a microwave-approved popcorn popper or commercial package designed especially for microwave ovens. Results are the manufacturer's responsibility.

NEVER try to pop corn in a paper bag. Overcooking may result in smoke and fire.

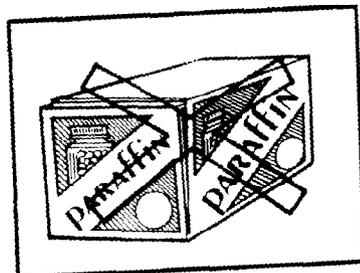


Starting a microwave oven when it's empty is not recommended. If you experiment, put a container of water in the oven.



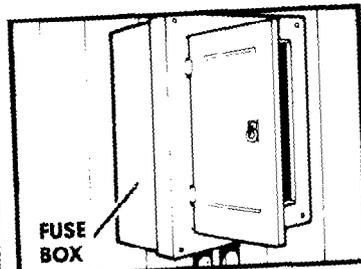
DO NOT use newspaper or other printed paper in the oven. Fire could result.

DO NOT dry flowers, fruit, herbs, wood, paper, gourds or clothes in the oven. Fire or other hazards may result.

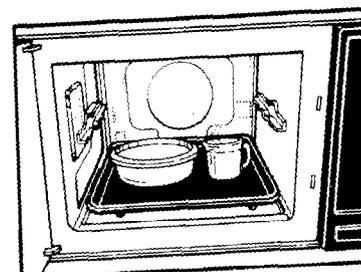


DO NOT try to melt paraffin wax in the oven. Fire or other hazards may result.

General information



If your electric power line voltage is less than the normal 120 volts, cooking times may be longer.



To test a dish for safe microwave use, put it into the oven with a cup of water **beside it**. Cook on high Cook Power for one minute. **If the dish gets hot and water stays cool, do not use it.**

If you need service or assistance, we suggest you follow these five steps:

1. Before calling for assistance...

If nothing operates:

- Is the power supply cord plugged into a live circuit with the proper voltage? (See page 36.)
- Have you checked your home's main fuses or circuit breaker box?
- Have you checked the electric company for a power failure?

If the oven will not run:

- Is the oven being used as a timer?
- If the temperature probe is being used, is it plugged tightly into its socket?
- Is the door firmly closed and latched?
- Did you touch START?
- Did you follow the directions exactly?

If the cooking times seem too long:

- Is the electric supply to your home low or lower than normal? Your electric company can tell you if the line voltage is low.
- Is the Cook Power at the recommended setting?
- Are you allowing for more time when microwave cooking more food at one time?

If the display shows a time counting down but the oven is not cooking:

- Is the oven door closed completely?
- Is the oven in a standing time between QUICK DEFROST and a cooking cycle? (See page 14.)
- Have you set the control as a kitchen timer?

If you do not hear a Programming Tone (page 6):

- Is the command correct?
- Has the tone been cancelled?

If the fan seems to be running slower than usual:

- Has the oven been stored in a cold area? The fan will run slower until the oven warms up to normal room temperature.

If smoke is coming from the back of the oven during broiling:

- This is normal, just as in conventional broiling.

If the fan keeps running after convection cooking:

- It is normal for the fan to keep running after convection cooking. The fan will even run when the door is open. The fan will automatically shut off when the oven components have cooled down.

If there has been a power interruption, the Display will show 888:88. Reset the clock (page 6).

If the oven turns off too soon or not soon enough when using the probe:

- Is at least 1/3 of the probe in the food?
- Is the probe tip in the center of the food?
- Is the probe touching bone or fat?
- Have you allowed roasts to stand for a few minutes after cooking?
- Is the probe plugged tightly into its socket?
- Is the Cook Power set correctly?
- Is the Probe Temperature set correctly?

If FAIL, FAIL 2, FAIL 3, or FAIL 4 shows in the Display, call your Whirlpool COOL-LINE® service assistance telephone number.

2. If you need assistance*...

Call Whirlpool COOL-LINE® service assistance telephone number. Dial free from anywhere in the U.S.:

1-800-253-1301

and talk with one of our trained Consultants. The Consultants can instruct you in how to obtain satisfactory operation from your appliance or, if service is necessary, recommend a qualified service company in your area.

3. If you need service*...



Whirlpool has a nationwide network of franchised TECH-CARE® service companies. TECH-CARE service technicians are trained to fulfill the product warranty and provide after-warranty

service, anywhere in the United States. To locate TECH-CARE service in your area, call our COOL-LINE service assistance telephone number (see Step 2) or look in your telephone directory Yellow Pages under:

APPLIANCES - HOUSEHOLD -
MAJOR - SERVICE & REPAIR

ELECTRICAL APPLIANCES -
MAJOR - REPAIRING & PARTS

OR

WHIRLPOOL APPLIANCES
FRANCHISED TECH-CARE SERVICE

WHIRLPOOL APPLIANCES
FRANCHISED TECH-CARE SERVICE

SERVICE COMPANIES
XYZ SERVICE CO
123 MAPLE 999-9999

SERVICE COMPANIES
XYZ SERVICE CO
123 MAPLE 999-9999

OR

WASHING MACHINES, DRYERS
& IRONERS - SERVICING

WHIRLPOOL APPLIANCES
FRANCHISED TECH-CARE SERVICE

SERVICE COMPANIES
XYZ SERVICE CO
123 MAPLE 999-9999

4. If you have a problem*...

Call our COOL-LINE service assistance telephone number (see Step 2) and talk with one of our Consultants, or if you prefer, write to:

Mr. Robert Stanley
Division Vice President
Whirlpool Corporation
2000 M-63
Benton Harbor, MI 49022

5. If you need FSP® replacement parts*...

FSP is a registered trademark of Whirlpool Corporation for quality parts. Look for the symbol of quality whenever you need a replacement part for your Whirlpool appliance. FSP replacement parts will fit right and work right, because they are made to the same exacting specifications used to build every new Whirlpool appliance.

To locate FSP replacement parts in your area, refer to Step 3 above or call your Whirlpool COOL-LINE service assistance telephone number in Step 2.

* If you must call or write, please provide: model number, serial number, date of purchase, and a complete description of the problem. This information is needed in order to better respond to your request for assistance.

WHIRLPOOL® FULL SIZE COUNTERTOP CONVECTION MICROWAVE OVEN WARRANTY

MW001

LENGTH OF WARRANTY	WHIRLPOOL WILL PAY FOR
FULL ONE-YEAR WARRANTY From Date of Purchase	FSP® replacement parts and repair labor to correct defects in materials or workmanship. Service must be provided by a franchised TECH-CARE® service company.
LIMITED FOUR-YEAR WARRANTY Second Through Fifth Year From Date of Purchase	FSP replacement parts for solid-state touch control system if defective in materials or workmanship. (Touch Control models only.) The solid-state touch control parts are shown below.
LIMITED NINE-YEAR WARRANTY Second Through Tenth Year From Date of Purchase	FSP replacement magnetron tube if defective in materials or workmanship. The magnetron is shown below.
WHIRLPOOL WILL NOT PAY FOR	
<p>A. Service calls to:</p> <ol style="list-style-type: none"> 1. Correct the installation of the microwave product. 2. Instruct you how to use the microwave product. 3. Replace house fuses or correct house wiring. 4. Replace owner accessible light bulbs. <p>B. Repairs when microwave product is used in other than normal, single-family household use.</p> <p>C. Pick up and delivery. This product is designed to be repaired in the home.</p> <p>D. Damage to microwave product caused by accident, misuse, fire, flood, acts of God or use of products not approved by Whirlpool.</p> <p>E. Any labor costs during the limited warranties.</p>	

WHIRLPOOL CORPORATION SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow the exclusion or limitation of incidental or consequential damages so this limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Outside the United States, a different warranty may apply. For details, please contact your franchised Whirlpool distributor or military exchange.

PARTS COVERED BY YOUR LIMITED WARRANTY

