

MICROWAVE OVEN / GRILL / COMBINATION

OWNER'S MANUAL

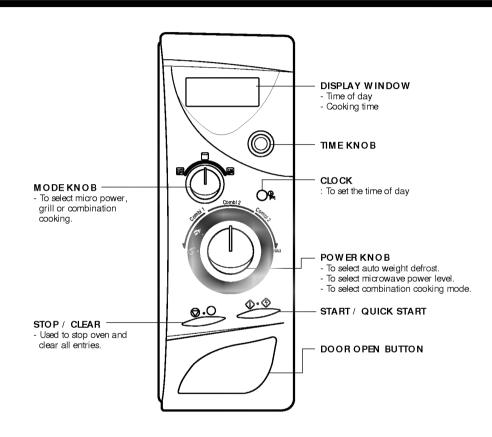
PLEASE READ THIS OWN ER'S MANUAL THOROUGHLY BEFORE OPERATING.

MG-580MD MH-680MD



Oven Control Panel





Precautions

Precautions to avoid possible exposure to excessive microwave energy.

You cannot operate your oven with the door open due to the safety interlocks built into the door mechanism. These safety interlocks automatically switch off any cooking activity when the door is opened; which in the case of a microwave oven could result in harmful exposure to microwave energy.

It is important not to tamper with the safety interlocks.

Do not place any object between the oven front face and the door or allow food or deaner residue to accumulate on sealing surfaces.

Do not operate your oven if it is damaged. It is particularly important that the oven door closes 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.

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

When heating liquids, e.g. soups, sauces and beverages in your microwave oven, overheating the liquid beyond boiling point can occur without evidence of bubbling. This could result in a sudden boil over of the hot liquid. To prevent this possibility the following steps should be taken:

- 1 Avoid using straight sided containers with narrow necks.
- 2 Do not overheat.
- 3 Stir the liquid before placing the container in the oven and again halfway through the heating time.
- 4 After heating, allow to stand in the oven for a short time, stir or shake them again carefully and check the temperature of them before consumption to avoid burns (especially, contents of feeding bottles and baby food jars).

Warning



Warning

Always allow food to stand after being cooked by microwaves and check the temperature of them before consumption. Especially contents of feeding bottles and baby food jars.

Contents

How the Microwave Oven Works

Microwaves are a form of energy similar to radio and television waves and ordinary daylight. Normally, microwaves spread outwards as they travel through the atmosphere and disappear without effect. Microwave ovens, however, have a magnetron which is designed to make use of the energy in microwaves. Bectricity, supplied to the magnetron tube, is used to created microwave energy.

These microwaves enter the cooking area through openings inside the oven. A turntable or tray is located at the bottom of the oven. Microwaves cannot pass through metal walls of the oven, but they can penetrate such materials as glass, porcelain and paper, the materials out of which microwave-safe cooking dishes are constructed.

Microwaves do not heat cookware, though cooking vessels will eventually get hot from the heat generated by the food.

A very safe appliance

Your microwave oven is one of the safest of all home appliances. When the door is opened, the oven automatically stops producing microwaves. Microwave energy is converted completely to heat when it enters food, leaving no "left over" energy to harm you when you eat your food.

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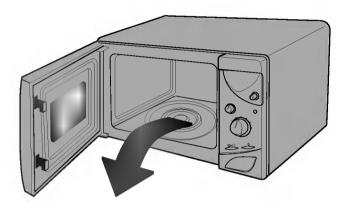
Unpacking &

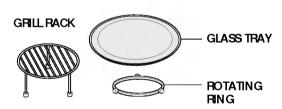
Installing

By following the basic steps on these two pages you will be able to quickly check that your oven is operating correctly. Please pay particular attention to the guidance on where to install your oven. When unpacking your oven make sure you remove all accessories and packing. Check to make sure that your oven has not been damaged during delivery.



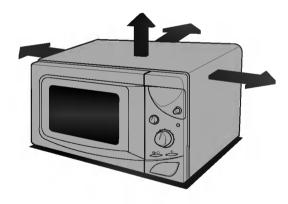
Unpack your oven and place it on a flat level





Place the oven in the level location of your choice with move than 85 cm height but make sure there is at least 30 cm of space on the top and 10 cm at the rear for proper ventilation. The front of the oven should be at least 8 cm from the edge of the surface to prevent tipping.

An exhaust outlet is located on top or side of the oven. Blocking the outlet can damage the oven.



THIS OVEN SHOULD NOT BE USED FOR COMMERCIAL CATERING PURPOSES

Plug your oven into a standard household socket. Make sure your oven is the only appliance connected to the socket. If your oven does not operate properly, unplug

it from the electrical socket and then plug



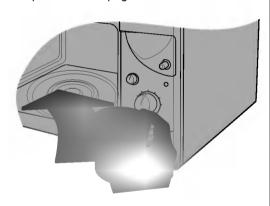
Open your oven door by pressing the **DOOR OPEN BUTTON**. Place the **ROTATING RING** inside the oven and place the **GLASS TRAY** on top.





Fill a microwave safe container with 300 ml (1/2 pint) of water. Place on the GLASS TRAY and close the oven door. If you have any doubts about what type of container to use please refer to page 18.

it back in.



Press the **STOP** button, and

press the START button three times to set 3 minutes of cooking time.

You will hear a BEEP each time you press the button. Your oven will start before you have finished the third press; don't worry this is normal.



The **DISPLAY** will count down from 3 minutes. When it reaches 0 it will sound three BEEPS. Open the oven door and test the temperature of the water. If your oven is operating the water should be warm. Be careful when comoving the container it may be hot.



Setting the

Clock

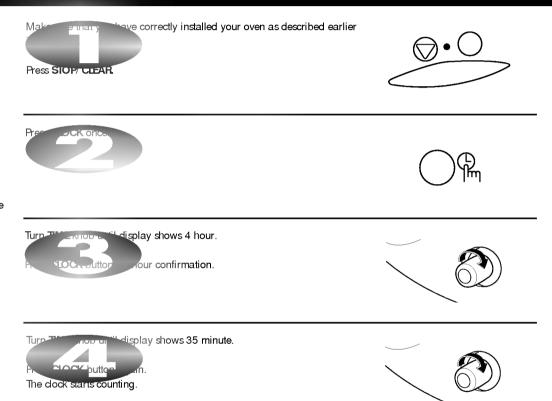
Your oven uses a 12 hour clock.

In the following example I will show you how to set the time for 4:35. Make sure that you have removed all packaging from your oven.



When your oven is plugged in for the first time or when power resumes after a power cut a '0' will be shown in the display; you will have to reset the clock.

If the clock (or display) show any strange looking symbols, unplug your oven from the electrical socket, plug it back in and reset the clock.



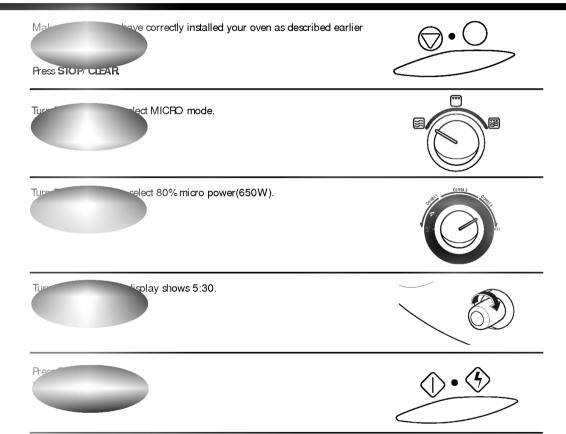
In the following example I will show you how to cook some food on 80% power for 5 minutes and 30 seconds.

Micro Power

Cooking



Your oven has five microwave Power settings.



Micro Power

Level

Your microwave oven is equipped with 5 power levels to give you maximum flexibility and control over cooking. The table below shows example foods and their recommended cooking power levels for use with this microwave oven.

Power level 😸	Output	Use
HIGH, MAX	100% (900W)	* Boil Water * Brown minced beef * Cook poultry pieces, fish, vegetables * Cook tender cuts of meat
MEDIUM HIGH	80% (650W)	* All reheating * Poast meat and poultry * Cook mushrooms and shellfish * Cook foods containing cheese and eggs
MEDIUM	60% (400W)	* Bake cakes and scones * Prepare eggs * Cook custard * Prepare rice, soup
DEFROST/ MEDIUM LOW	40% (200W)	* All thawing * Melt butter and chocolate * Cook less tender cuts of meat
LOW/ WARM	20% (100W)	* Soften butter & cheese * Soften ice cream * Paise yeast dough

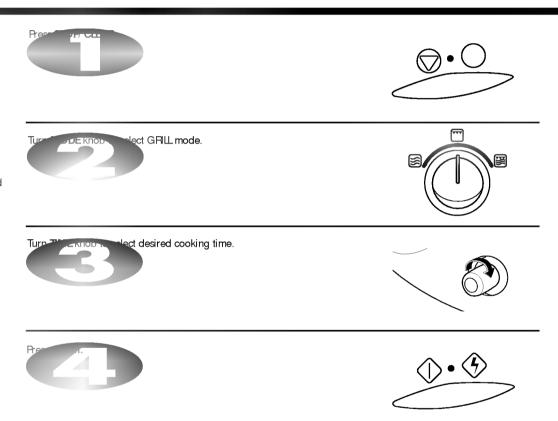
Grill Cooking



This model is fitted with a QUARTZ GRILL, so preheating is not needed.

This feature will allow you to brown and crisp food quickly.

The grill rack must be used during grill cooking.



Combination

Cooking

In the following example I will show you how to programme your oven with:- combi mode No.2 for a cooking time of 25 minutes.

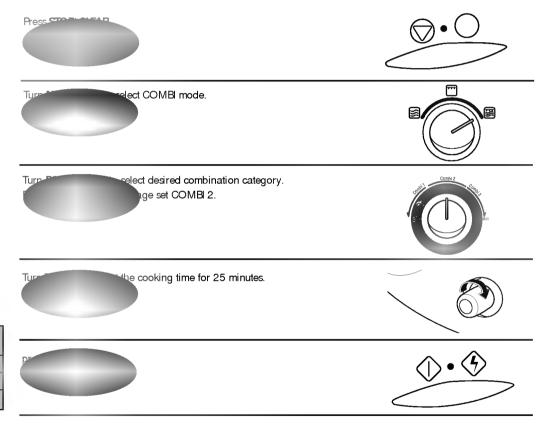


Your oven has a combination cooking feature which allows you to cook food with **grill** and **microwave** at the same time. The time it takes to cook food using this feature is generally shorter than using the two features separately.

The **quartz heater** grills the surface of the food while **microwave** cooking reaches inside. Moreover, preheating your oven is not necessary.

Combination Cooking Mode

CATEGORY	MICRO POWER (%)	HEATER POWER (%)
Co-1	20	80
Co-2	40	60
Co-3	60	40



The temperature and density of food varies, I would recommend that the food is checked before cooking commences. Pay particular attention to large joints of meat and chicken, some foods should not be completely thawed before cooking. These will require a standing time to allow the centre to thaw. In the following example I will show you how to defrost 1.4 Kg of frozen poultry.

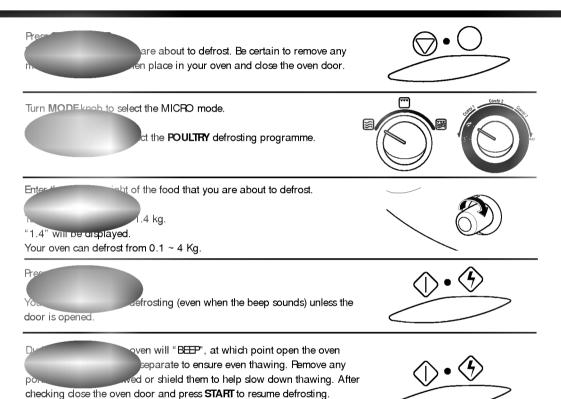
the door is opened.

Auto

Defrost



Your oven has two microwave defrost settings:- **MEAT, POULTRY** each defrost category has different power settings. **AUTO DEFROST** dial will select different settings.



Your oven will not stop defrosting (even when the beep sounded) unless

AUTO WEIGHT DETROST SEQUENCE UST

SEQUENCE		FOOD	MIN./ MAX. FOOD
MEAT	Beef	Minced beef, Fillet steak, Cubes for stew, Sirloin steak, Pot roast, Rump roast, Beef burger.	0.1/ 4.0 kg
	Lamb	Chops(2.5 cm thick), Polled roast.	
	Pork	Chops(1.2 cm thick), Spareribs, Polled roast, Sausage.	
	Veal	Cutlets(450 g, 1.2 cm thick)	
POULTRY	Chicken	Whole(under 2 Kg), Cut up Breasts(boneless), Legs.	0.1/ 4.0 kg
	Turkey	Breasts(under 2.5 Kg)	

- * The benefit of this Auto Defrost feature is automatic setting and control of defrosting, but just like conventional defrosting you must check the food during the defrosting time.
- * For best results, remove meat and poultry from its original paper or plastic package(wrapper). Otherwise, the wrap will hold steam and juice close to the food which can cause the outer surface of the food to cook.
- * Place foods in a shallow glass baking dish to catch drippings.
- * Food should still be some what icy in the centre when removed from the oven.
- * When it is difficult to remove the wrap from the food, defrost the wrapped food for about a quarter of the total defrost time, which is displayed at the beginning of the defrost cycle. Then remove the food from the oven and remove the wrap from the food.
- * Siced bread should be placed between sheets of kitchen towel, bread rolls should be cut in half before defrosting.



Quick

Start



The QUICK START feature allows you to set 1 minute intervals of HIGH POWER cooking with a touch of the QUICK START button.





star you have finished the second press.



Presci Guick ART cooking, you can extend the cooking time up to 90 speat ssing the QUICK START button.

Child

Lock



Your oven has a safety feature that prevents accidental running of the oven. Once the child lock is set, you will be unable to use any functions and no cooking can take place.



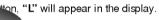


ard LOCKIS set.



The time will disappear from the display if you have set the clock. However, the time of day will appear in the display a few seconds later.







To press and hold STOP/ CLEAR until "L" disappears, near one it's released.



WARNING

subsequent DAMAGE to the OVEN.

precautions Please ensure cooking times are correctly set as over cooking may result in PIPE and

- 1 Do not attempt to tamper with, or make any adjustments or repairs to the door, control panel, safety interlock switches or any other part of the oven. Repairs should only be undertaken by a qualified service technician.
- 2 Do not operate the oven when empty. It is best to leave a glass of water in the oven when not in use. The water will safely absorb all microwave energy, if the oven is accidentally started.
- 3 Do not dry clothes in the microwave oven, which may become carbonized or burned if heated too long.
- 4 Do not cook food wrapped in paper towels, unless your cook book contains instructions, for the food you are cooking.
- 5 Do not use newspaper in place of paper towels for cooking.
- 6 Do not use wooden containers. They may heat-up and char. Do not use ceramic containers which have metallic (e.g. gold or silver) inlays. Always remove metal twist ties. Metal objects in the oven may arc which can cause serious damage.
- 7 Do not operate the oven with a kitchen towel, a napkin or any other obstruction between the door and the front edges of the oven, which may cause microwave energy leakage.
- 8 Do not use recycled paper products since they may contain impurities which may cause sparks and/ or fires when used in cooking.
- 9 Do not rinse the turntable by placing it in water just after cooking. This may cause breakage or damage.

- 10 Small amounts of food require shorter cooking or heating time. If normal times are allowed they may overheat and burn.
- 11 Be certain to place the oven so the front of the door is 8 cm or more behind the edge of the surface on which it is placed, to avoid accidental tipping of the appliance.
- 12 Before cooking, pierce the skin of potatoes, apples or any such fruit or vegetable.
- 13 Do not cook eggs in their shell. Pressure will build up inside the egg which will burst.
- 14 Do not attempt deep fat frying in your oven.
- 15 Pemove the plastic wrapping from food before cooking or defrosting. Note though that in some cases food should be covered with plastic film. for heating or cooking, as detailed in microwave cook books.
- 16 If the oven door is damaged, the oven must not be operated until it has been repaired by a qualified service technician.
- 17 If smoke is observed keep the oven door closed and switch off or disconnect the oven from the power supply.
- 18 When food is heated or cooked in disposable containers of plastic, paper or other combustible materials look at the oven frequently to check if the food container is deteriorating.

Safety

Food characteristics &

Microwave cooking

Keeping an eye on things

The recipes in the book have been formulated with great care, but your success in preparing them depends on how much attention you pay to the food as it cooks. Always watch your food while it cooks. Your microwave oven is equipped with a light that turns on automatically when the oven is in operation so that you can see inside and check the progress of your food. Directions given in recipes to elevate, stir, and the like should be thought of as the minimum steps recommended. If the food seems to be cooking unevenly, simply make the necessary adjustments you think appropriate to correct the problem.

Factors affecting microwave cooking times

Many factors affect cooking times. The temperature of ingredients used in a recipe makes a big difference in cooking times. For example, a cake made with ice-cold butter, milk, and eggs will take considerably longer to bake than one made with ingredients that are at room temperature. All of the recipes in this book give a range of cooking times. In general, you will find that the food remains under-cooked at the lower end of the time range, and you may sometimes want to cook your food beyond the maximum time given, according to personal preference. The governing philosophy of this book is that it is best for a recipe to be conservative in giving cooking times. While overcooked food is ruined for good. Some of the recipes. particularly those for bread, cake, and custards, recommend that food be removed from the oven when they are slightly undercooked. This is not a mistake. When allowed to stand, usually covered, these foods will continue to cook outside of the oven as the heat trapped within the outer portions of the food gradually travels inward. If the food is left in the oven until it is cooked all the way through, the outer portions will become overcooked or even burnt. You will become increasingly skilful in estimating both cooking and standing times for various foods.

Density of food

Light, porous food such as cakes and breads cook more quickly than heavy, dense foods such as roasts and casseroles. You must take care when microwaving porous food that the outer edges do not become dry and brittle.

Height of food

The upper portion of tall food, particularly roasts, will cook more quickly than the lower portion. Therefore, it is wise to turn tall food during cooking, sometimes several times

Moisture content of food

Since the heat generated from microwaves tends to evaporate moisture, relatively dry food such as roads and some vegetables should either be sprinkled with water prior to cooking or covered to retain moisture.

Bone and fat content of food

Bones conduct heat and fat cooks more quickly than meat. Care must be taken when cooking bony or fatty cuts of meat that they do not cook unevenly and do not become overcooked.

Quantity of food

The number of microwaves in your oven remains constant regardless of how much food is being cooked. Therefore, the more food you place in the oven, the longer the cooking time. Pernember to decrease cooking times by at least one third when halving a recipe.

Shape of food

Microwaves penetrate only about 2.cm into food, the interior portion of thick foods are cooked as the heat generated on the outside travels inward. Only the outer edge of food in cooked by microwave energy; the rest is cooked by conduction. The worst possible shape for a food that is to be microwaved is a thick square. The corners will burn long before the centre is even warm. Pound thin foods and ring shaped foods cook successfully in the microwave.

Covering

A cover traps heat and steam which causes food to cook more quickly. Use a lid or microwave ding film with a corner folded back to prevent splitting.

Browning

Meats and poultry that are cooked fifteen minutes or longer will brown lightly in their own fat. Foods that are cooked for a shorter period of time may be brushed with a browning sauce such as worcestershire sauce, soy sauce or barbecue sauce to achieve an appetizing colour. Since relatively small amounts of browning sauces are added to food the original flavour of the recipe is not altered.

Covering with greaseproof paper

Greaseproofing effectively prevents spattering and helps food retain some heat. But because it makes a looser cover than a lid or clingfilm, it allows the food to dry out slightly.

Arranging and spacing

Individual foods such as baked potatoes, small cakes and hors d'oeuvres will heat more evenly if placed in the oven an equal distance apart, preferably in a circular pattern. Never stack foods on top of one another.

Food characteristics &

Microwave cooking

Stirring

Stirring is one of the most important of all microwaving techniques. In conventional cooking, food is stirred for the purpose of blending. Microwaved food, however, is stirred in order to spread and redistribute heat. Always stir from the outside towards the centre as the outside of the food heats first.

Turning over

Large, tall foods such as roasts and whole chickens should be turned so that the top and bottom will cook evenly. It is also a good idea to turn cut up chicken and chops.

Placing thicker portions facing outwards

Since microwaves are attracted to the outside portion of food, it makes sense to place thicker portions of meat, poultry and fish to the outer edge of the baking dish. This way, thicker portions will receive the most microwave energy and the food will cook evenly.

Shielding

Strips of aluminium foil (which block microwaves) can be placed over the corners or edges of square and rectangular foods to prevent those portions from overcooking. Never use too much foil and make sure the foil is secured to the dish or it may cause 'arcing' in the oven.

Bevating

Thick or dense foods can be elevated so that microwaves can be absorbed by the underside and centre of the foods.

Piercing

Foods enclosed in a shell, skin or membrane are likely to burst in the oven unless they are pierced prior to cooking. Such foods include yolks and whites of eggs, clams and oysters and whole vegetables and fruits.

Testing if cooked

Food cooks so quickly in a microwave oven, it is necessary to test it frequently. Some foods are left in the microwave until completely cooked, but most foods, including meats and poultry, are removed from the oven while still slightly undercooked and allowed to finish cooking during standing time. The internal temperature of foods will rise between 5°F (3°C) and 15°F (8°C) during standing time.

Standing time

Foods are often allowed to stand for 3 to 10 minutes after being removed from the microwave oven. Usually the foods are covered during standing time to retain heat unless they are supposed to be dry in texture (some cakes and biscuits, for example). Standing allows foods to finish cooking and also helps flavour blend and develop.

To Clean Your Oven

1 Keep the inside of the oven dean

Food spatters or spilled liquids stick to oven walls and between seal and door surface. It is best to wipe up spillovers with a damp cloth right away. Crumbs and spillovers will absorb microwave energy and lengthen cooking times. Use a damp cloth to wipe out crumbs that fall between the door and the frame. It is important to keep this area clean to assure a tight seal. Remove greasy spatters with a soapy cloth then rinse and dry. Do not use harsh detergent or abrasive cleaners. The glass tray can be washed by hand or in the dishwasher.

2 Keep the outside of the oven dean

Clean the outside of your oven with soap and water then with clean water and dry with a soft cloth or paper towel. To prevent damage to the operating parts inside the oven, the water should not be allowed to seep into the ventilation openings. To clean control panel, open the door to prevent oven from accidentally starting, and wipe a damp cloth followed immediately by a dry cloth. Press STOP/ CLEAR after cleaning.

- 3 If steam accumulates inside or around the outside of the oven door, wipe the panels with a soft cloth. This may occur when the microwave oven is operated under high humidity conditions and in no way indicates a malfunction of the unit.
- 4 The door and door seals should be kept clean. Use only warm, soapy water, rinse then dry thoroughly.

DO NOT USE ABRASIVE MATERIALS, SUCH AS CLEANING POWDERS OR STEEL AND PLASTIC PADS.

Metal parts will be easier to maintain if wiped frequently with a damp cloth.

Microwave-safe

Utensils

Never use metal or metal trimmed utensils in your microwave oven

Microwaves cannot penetrate metal. They will bounce off any metal object in the oven and cause arcing, an alarming phenomenon that resembles lightning.

Most heat resistant non metallic cooking utensils are safe for use in your microwave oven. However, some may contain materials that render them unsuitable as microwave cookware. If you have any doubts about a particular utensil, there's a simple way to find out if it can be used in your microwave oven.

Place the utensil in question next to a glass bowl filled with water in the microwave oven. Microwave at power HIGH for 1 minute. If the water heats up but the utensil remains cool to the touch, the utensil is microwave~safe. However, if the water does not change temperature but the utensil becomes warm, microwaves are being absorbed by the utensil and it is not safe for use in the microwave oven. You probably have many items on hand in your kitchen right now that can be used as cooking equipment in your microwave oven. Just read through the following checklist.

Dinner plates

Many kinds of dinner-ware are microwave-safe. If in doubt consult the manufacturer's literature or perform the microwave test.

Glassware

Glassware that is heat-resistant is microwave-safe. This would include all brands of oven tempered glass cookware. However, do not use delicate glassware, such as tumblers or wine glasses, as these might shatter as the food warms.

Plastic storage containers

These can be used to hold foods that are to be quickly reheated. However, they should not be used to hold foods that will need considerable time in the oven as hot foods will eventually warp or melt plastic containers.

Paper

Paper plates and containers are convenient and safe to use in your microwave oven, provided that the cooking time is short and foods to be cooked are low in fat and moisture. Paper towels are also very useful for wrapping foods and for lining baking trays in which greasy foods such as bacon are cooked. In general, avoid coloured paper products as the colour may run. Some recycled paper products may contain impurities which could cause arcing or fires when used in the microwave oven.

Plastic cooking bags

These are microwave: safe, provided they are specially made for cooking. However, be sure to make a slit in the bag so that steam can escape. Never use ordinary plastic bags for cooking in your microwave oven, as they will melt and rupture.

Plastic microwave cookware

A variety of shapes and sizes of microwave cookware are available. For the most part, you can probably use items you already have on hand rather than investing in new kitchen equipment.

Pottery, stoneware and ceramic

Containers made of these materials are usually fine for use in your microwave oven, but they should be tested to be sure.

CAUTION

Some items with high lead or iron content are not suitable for cooking utensils.

Questions &

Answers

Q What's wrong when the oven light will not glow?

A There may be several reasons why the oven light will not glow. Light bulb has blown Door is not closed

Q Does microwave energy pass through the viewing screen in the door?

A No. The holes, or ports, are made to allow light to pass; they do not let microwave energy through.

Q Why does the beep tone sound when a pad on the Control Panel is touched?

A The beep tone sounds to assure that the setting is being properly entered.

Q Will the microwave oven be damaged if it operates empty?

A Yes Never run it empty or without the glass tray.

Q Why do eggs sometimes pop?

A When baking, frying, or poaching eggs, the yolk may pop due to steam build up inside the yolk membrane. To prevent this, simply pierce the yolk before cooking. Never microwave eggs in the shell.

Q Why is standing time recommended after microwave cooking is over?

A After microwave cooking is finished, food keeps on cooking during standing time. This standing time finishes cooking evenly throughout the food. The amount of standing time depends on the density of the food.

Q Is it possible to pop corn in a microwave oven?

- A Yes, if using one of the two methods described below
- 1 Popcorn-popping utensils designed specifically for microwave cooking.
- 2 Prepackaged commercial microwave popcorn that contains specific times and power outputs needed for an acceptable final product.

FOLLOW EXACT DIRECTIONS GIVEN BY EACH MANUFACTURER FOR THEIR POPCORN PRODUCT. DO NOT LEAVE THE OVEN UNATTENDED WHILE THE CORN IS BEING POPPED. IF CORN FAILS TO POP AFTER THE SUGGESTED TIMES, DISCONTINUE COOKING. OVERCOOKING COULD RESULT IN THE CORN CATCHING FIRE

CAUTION

NEVER USE A BROWN PAPER BAG FOR POPPING COFN. NEVER ATTEMPT TO POP LEFTOVER KEFNELS.

Q Why doesn't my oven always cook as fast as the cooking guide says?

A Check your cooking guide again to make sure you've followed directions correctly, and to see what might cause variations in cooking time.

Cooking guide times and heat settings are suggestions, chosen to help prevent overcooking, the most common problem in getting used to a microwave oven. Variations in the size, shape, weight and dimensions of the food require longer cooking time. Use your own judgement along with the cooking guide suggestions to test food condition, lust as you would do with a conventional cooker.

Plug wiring information/

Technical Specifications

Warning

This appliance must be earthed

The wires in this mains lead are coloured in accordance with the following codes.

BLUE ~ Neutral
BPOWN ~ Live
GREEN & YELLOW ~ Earth

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the with the terminals in your plug proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or Coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter Lor coloured RED.

The wire which is coloured GREEN & YELLOW or GREEN must be connected to the terminal which is marked with the letter E or 🛓 .

Technical Specification			
Power Input	230V AC / 50Hz	240V AC / 50Hz	
Microwave Frequency	2450 MHz	2450 MHz	
Power Consumption			
Microwave	1350 Watts	1400 Watts	
Grill	1250 Watts	1300 Watts	
Combination	2550 Watts	2600 Watts	





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