

MICROWAVE OVEN

OWNER'S MANUAL

PLEASE READ THIS OWNER'S MANUAL THOROUGHLY BEFORE OPERATING.

MS-2348DR MS-2348DRS MS-2348DRB

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 cleaner 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.

A WARNING

Please ensure cooking times are correctly set as over cooking may result in the FOOD catching fire and subsequent damage to your oven.

When heating liquids, e.g. soups, sauces and beverages in your microwave oven, delayed eruptive boiling 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(especially the contents of feeding bottles and baby food jars) again carefully and check the temperature of them before consumption to avoid burns (especially, contents of feeding bottles and baby food jars). Be careful when handling the container.

A 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. Electricity, 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.

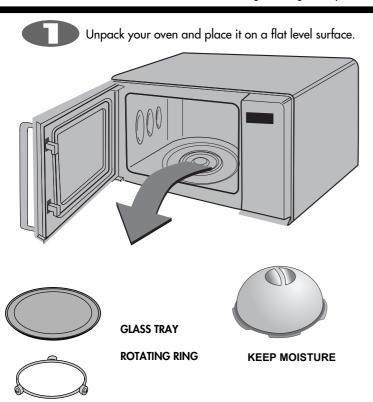
A very safe appliance

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.

Precautions —	_ 2
Contents —	— 3
Unpacking & Installing —	— 4 ~ 5
Setting the Clock —	— 6
Child Lock —	_7
Micro Power Cooking	— 8
Micro Power Level	
Two stage Cooking	— 10
Quick Start —	11
Special Menu	12 ~ 13
Auto Cook	14 ~ 15
Chilren cook—	— 16
Keep Moisture	— 1 <i>7</i> ~ 19
Auto Defrost	— 20 ~ 2 1
Quick Defrost	— 22
More or Less Cooking	
Important safety instructions —	— 24 ~ 2 5
Microwave - safe Utensils —	26
Food characteristics & Microwave cooking	— 27 ~ 28
Questions & Answers	- 29
Plug Wiring Information/Technical Specifications	— 30

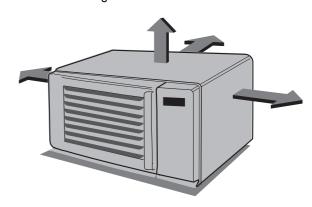
Unpacking &Installing

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.



Place the oven in the level location of your choice with more than 85cm height but make sure there is at least 20cm of space on the top and 10cm at the rear for proper ventilation. The front of the oven should be at least 8cm 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.

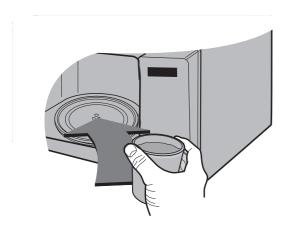


THIS OVEN SHOULD NOT BE USED FOR COMMERCIAL CATERING PURPOSES

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 it back in.

Open your oven door by pulling the **DOOR HANDLE**.
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 26.



Press the **STOP/CLEAR** button, and press the **START** button one time to set 30 seconds of cooking time.



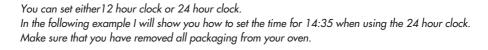
The **DISPLAY** will count down from 30 seconds. When it reaches 0 it will sound BEEPS. Open the oven door and test the temperature of the water. If your oven is operating the water should be warm. **Be careful when removing the container it may be hot.**



YOUR OVEN IS NOW INSTALLED

The contents of feeding bottles and baby food jars shall be stirred or shaken and the temperature checked before consumption, in order to avoid burns.

Setting the Clock





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) shows any strange looking symbols, unplug your oven from the electrical socket and plug it back in and reset the clock. Make sure that you have correctly installed your oven as described earlier in this book.

Press STOP/CLEAR.

Press CLOCK once.

(If you want to use a 12 hour clock, Press **CLOCK** once more. If you want to change different option after setting clock, you have to unplug and plug it back in.)

Press 10 MIN fifteen times.

Press 1 MIN three times.

Press 10 SEC five times.

If the key (10 MIN / 1 MIN / 10 SEC) is pressed and held, the time will increase rapidly.

Press **CLOCK** to set the time.

The clock starts counting.

Child Lock



oven door

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.

However your child can still open the

Press STOP/CLEAR.

Press and hold **STOP/CLEAR** until "L" appears on the display and BEEP sounds.

The CHILD LOCK is now set.

The time will disappear on the display if you have set the clock.

"L" remains displayed to let you know that CHILD LOCK is set.

L

To cancel **CHILD LOCK** press and hold **STOP/CLEAR** until "L" disappears. You will hear BEEP when it's released.

Micro Power

Cooking

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



Your oven has five microwave Power settings.

Make sure that you have correctly installed your oven as described earlier in this book.

Press STOP/CLEAR.

Press MICRO twice to select the 80% power.

"680" appears on the display.

POWER	%	Power Output
HIGH MAX	100%	850W
Medium High	80%	680W
MEDIUM	60%	510W
DEFROST MEDIUM LOW	40%	340W
Low	20%	170W

Press 1 MIN five times.
Press 10 SEC three times.

Press START.

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 the examples of food and their recommended cooking power levels for use with this microwave oven.

POWER LEVEL	USE	POWER LEVEL(%)	POWER OUTPUT
HIGH	* Boil Water * Brown minced beef * Cook poultry pieces, fish, vegetables * Cook tender cuts of meat	100%	8 <i>5</i> 0W
MEDIUM HIGH	* Reheating(Liquid) * Roast meat and poultry * Cook mushrooms and shellfish * Cook foods containing cheese and eggs	80%	680W
MEDIUM	* Reheating(Mashed potato, Plated meal, Ready meal) * Prepare eggs * Cook custard * Prepare rice, soup	60%	510W
DEFROST (MEDIUM LOW)	* All thawing * Melt butter and chocolate * Cook less tender cuts of meat	40%	340W
LOW	* Soften butter & cheese * Soften ice cream * Raise yeast dough	20%	170W



Two stageCooking

In the following example I will show you how to cook some food in two stages. The first stages will cook your food for 11 minutes on HIGH; the second will cook for 35 minutes on 340W.



During two stage cooking the oven door can be opened and food checked. Close the oven door and press **START** and the cooking stage will continue.

At the end of stage 1, BEEP sounds and stage 2 commences.

Should you wish to clear the programme press **STOP/CLEAR** twice.

Press **STOP/CLEAR**.

Set the power and the cooking time for stage 1. (You can omit this process for HIGH power.)
Press MICRO once to select HIGH power.

Press 10 MIN once.

Press 1 MIN once.

Set the power and the cooking time for stage2.

Press MICRO four times to select 340W power.

Press 10 MIN three times

Press 1 MIN five times.

Press **START**

Quick Start

In the following example I will show you how to set 2 minutes of cooking on high power.



The **QUICK START** feature allows you to set 30 seconds intervals of HIGH power cooking with a touch of the **QUICK START** button.

Press STOP/CLEAR.

Press **START** four times to select 2 minutes on HIGH power. Your oven will start before you have finished the fourth press.

During **QUICK START** cooking, you can extend the cooking time up to 10 minutes by repeatedly pressing the **START** button.

Special Menu

In the following example I will show you how to cook 0.3 kg of "Buckwheat(kasha)".



Special Menu allows you to cook most of your favorite food easily by selecting the food type and entering the weight of food.

Press STOP/CLEAR.

Press Buckwheat(Kasha).

The oven works automatically.

FOOD CATEGORY	WEIGHT LIMIT	UTENSILS	FOOD TEMP.	INSTRUCTIONS
1. Buckwheat (kasha)	0.3kg	Microwave- safe bowl &cover	Room	Number 1. Wash 300g of buckwheat and drain. Add 600 ml of water and salt into a deep and large bowl, let it stand for 15 minutes. Place food in the oven. Choose the meun and press start.
				3.When beep,open the door and stir,cover with lid. Press start to continue cook. 4.After cooking, stand covered for 15 minutes.
2. Home noodles	1 serve	Microwave- safe bowl & cover	Room	Ingredients:. Chicken parts -500g (Chicken backs or necks or breasts)
				Water -1000ml
				Home noodles -70g Salt to taste
			Wash chicken parts, place them into a large bowl and 400ml of water ,cover with lid. Place food in the oven. Choose the menu and press start. When beep, open the door and skim the foam which has accumulated from the top.Add	
				the remaining water for bouillon and salt, cover with lid. Press start to continue cooking. 3. When the second beep, open the door. Add the noodles and stir, uncovered. Press start
				to continue cooking.
				4.After cooking, remove from the oven and pour it into soup serving dishes and serve immediately.
3. Mushroom	4 serve	Microwave-		Ingrdients:
goulash		safe bowl&cover	Room	Mushroom -500g Tomato puree -1tablespoon Sweet perpper -1piece Flour -1tablespoon Onion -2piece Sour cream -0.5cup
				Vegetable oil -2 tablespoons Water -0.5cup
				Salt and perpper to taste
				Slice mushrooms and sweet pepper, finely chop onion.
				Mix them and oil into a lager bowl, Uncovered. Place food in the oven. Choose the menu and press start.
				When beep, open the door and take out the bowl. Mix the flour, tomato puree, water, sour cream and season into it. Cover with lid. Press start to continue cooking.
				4. After cooking, remove from the oven and stand.

Auto Cook

In the following example I will show you how to cook 0.6 kg of jacket potato .



AUTO COOK allows you to cook most of your favorite food easily by selecting the food type and entering the weight of the food.



Press Auto Cook two times.

"Ac-2" appears on the display.

Press the MORE key five times to enter 0.6kg.

Press START.

Function	Category	Weight Limit	Utensil	Food Temp.	Instructions
Auto Cook	Omelet (Ac 1)	4 eggs	Microwave-safe bowl	Room	Omelet "Breakfast for Lovers" Ingredients: Egg - 4 pieces Milk - 4 tablespoons Flour - 1 tablespoon Butter (for pan lubrication) Wooden sticks - 2 pieces Filling: Greenery: dill, parsley, leek Ham or sausage - 2 slices Salt and pepper to taste. Cheese - 2 slices 1. Stir eggs with whisk. Add flour and milk. Put cut greenery. Lubricate with butter on the bottom and sides of the pan(preferably of square form). Pour omelet there. Cover with plastic wrap and vented corner for uniformity. 2. Place the prepared dish in the oven. 3. Choose the menu and press start to cook. 4. After cooking, stand covered for 3-5 minutes in the oven. Divide omelet into two parts. Put a slice of cheese and ham(sausage) on each omelet piece, roll omelet out and fix with a wooden stickCook in the oven at 100% power for 30 seconds or until cheese melted.
	Jacket Potato (Ac 2)	0.2 ~ 1.0kg	On glass tray	Room	 Choose medium sized potatoes 180 -220g. Wash and dry potatoes. Pierce potatoes several timeswith a fork. Place potatoes in the oven. After cooking, stand covered with aluminum foil for 5 minutes.
	Fresh Vegetables (Ac 3)	0.2 ~ 0.8kg	Microwave-safe bowl	Room	1. Place vegetables in a microwave-safe bowl. Add the amount of water according to the quantity. ** 0.2kg - 0.4kg : 2 tablespoons of water ** 0.5kg - 0.8kg : 4 tablespoons of water 2. Cover with plastic wrap. Place food in the oven. 3. After cooking, stir for 3-4 seconds. Stand covered for 3 minutes.

Children

Cook

In the following example I will show you how to cook Sandwich.



Press Stop/Clear.

Press **Chilren cook** to select the **Hot Sandwich** programme. The oven will starts automatically.

Children Cook Guide

Use this function to cook sandwich quickly for children.

CATEGORY	WEIGHT	UTENSIL	INSTRUCTIONS
Hot Sandwich	3 pieces	Paper towel (Food : Room)	Ingredients: White bread -3 pieces Potato -1 piece Cheese -50 g Butter -25g Salt, greenery to taste Preliminary preparation: 1.Pierce potato in several places. Cook at 100% power for 5-6 minutes 2.Grate cheese and peeled potato into medium pieces. Salt potato. 3.Cook sandwiches according to the following scheme: bread, butter, grated potato, cheese. 4.Place sandwiches on the paper towel in the oven. 5.Choose the menu and press start to cook.

In the following example I will show you how to cook 0.3kg of Mince meat.

Keep Moisture



Keep Moisture allows you to cook most of your favorite food easily by selecting the food type and entering the weight of the food.

Press STOP/CLEAR. Press Keep Moisture twice to select the **Mince meat** programme. "Hc-2" appears on the display window. Press 1 MIN twice times. Press START.

CATEGORY	WEIGHT	UTENSIL	INSTRUCTIONS
Fish	0.2~0.6kg	Keep moisture	Ingredients:
(Hc-1)			Fillets, steaks, whole fish
(1.0-1)		(Food : Room)	- Oily fish : mackerel, salmon
			- White fish : cod, haddock, croaker
			Lemon juice
			Method:
			➤Arrange in a single layer in a plate and put on the keep moisture tray. Add 2 tablespoons of lemon juice.
			Add 2 tablespoons of lemon funce. Add 30ml water into the though of tray
			Cover on the tray. Place food in the oven. choose the menu and press sta t torcook.
			After cooking, stand for 3 minutes.
Mince meat	0.2~0.4kg	Keep moisture	Ingredients:
<i>"</i>			Mince meat 500g
(Hc-2)		(Food : Refrigerated)	Mushroom 100g
			Acid butter 25g
			Salt ,pepper
			Method:
			>Wash and mince mushroom, mix the mince meat and mushroom and else.
			➤ Make patty of 100g admixture.
			►Place on the plate and into the keep moisture . Add 30ml water into the though of tray
			choose the menu and press start to cook.
			►After cooking, stand for 3 minutes.
			Caution: The juices of the cooking meat is hot and be careful.
vegetables	0.2~0.4kg	Keep moisture	Ingredients
			Carrots, sliced (main)
(Hc-3)		(Food : Room)	Broccoli, Cauliflower (optional)
			Method:
			Cut the vegetable to small pieces.
			>Place vegetables in the glass bowl and put in keep moisture tray.
			Add 30g water into the though of tray .
			Cover with keep moisture cover. Place food in the oven.
			choose the menu and press start to cook.
			➤After cooking, Stand covered for 3 minutes.
			, this seeming, charte service for a minutes.

CATEGORY	WEIGHT	UTENSIL	INSTRUCTIONS
Omelet (Hc-4)	2eggs	Keep moisture (Food : Room)	Ingredients: Egg -4 pieces Milk -4 tablespoons Flour -1 tablespoon Butter (for pan lubrication) Wooden sticks -2 pieces Filling: Greenery: dill, parsley, leek Ham or sausage -2 slices Salt and pepper to taste. Cheese -2 slices Method: Stir eggs with whisk. Add flour and milk. Put cut greenery. Lubricate the plate with butter, pour omelet there. And put the plate on the keep moisture tray. Add 200 wester into the though Blose the prepared dish in the year.
			Add 30g water into the though, Place the prepared dish in the oven. Choose the menu and press start to cook. After cooking, stand covered for 3minutes in the oven. -Divide omelet into two parts. Put a slice of cheese and ham (sausage) on each omelet piece, roll omelet out and fix with a wooden stick. -Put into the tray, and add 30g water in the though of the tray, then covered. cook at 100% power for 1min or until cheese melted.
Fruit	0.2~0.6kg	Keep moisture	Ingredients
(Hc-5)		(Food : Room)	Apple 1000g Honey 125g
, ,		(1 000 : 1(0011)	Filling:
			chopped nuts (peanut or almond or walnut)
			Method:
			➤Delete hearts from apples. Cut to piece, and put honey and chopped nuts .
			>Put apples on the plate and into the keep moisture, add 30g water into the though.
			➤Cover , choose the menu and press start to cook. ➤After cooking, stand covered for 3minutes in the oven.

Auto Defrost

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. For example fish cooks so quickly that it is sometimes better to begin cooking while still slightly frozen. The FROZEN VEGETABLES programme is suitable for defrosting small items such as rolls or a small loaf. 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.



Your oven has four microwave defrost settings:- MEAT, POULTRY, FISH and Frozen vegetables; each defrost category has different power settings.

Press STOP/CLEAR.

Weight the food that you are about to defrost. Be certain to remove any metallic ties or wraps; then place the food in your oven and close the oven door.

Press AUTO DEFROST twice to select the POULTRY defrosting programme. "dEF2" appears on the display window.

Enter the weight of the frozen food that you are about to defrost.

Press the MORE key fourteen times to enter 1.4 Kg.

Press **START**

During defrosting your oven will "BEEP", at which point open the oven door, turn food over and separate to ensure even thawing. Remove any portions that have thawed or shield them to help slow down thawing. After checking close the oven door and press **START** to resume defrosting.

Your oven will not stop defrosting (even when the beep sounded) unless the door is opened.

Auto Defrost Guide

- * Food to be defrosted should be in a suitable microwave proof container and place uncovered on the glass turntable.
- * If necessary, shield small areas of meat or poultry with flat pieces of aluminum foil. This will prevent thin areas becoming warm during defrosting. Ensure the foil does not touch the oven walls.
- * Separate items like minced meat, chops, sausages and bacon as soon as possible.
- * When beep, remove the food from the oven, turn the food over and return to the microwave oven. Remove defrosted portions at this point. Continue to defrost remaining pieces.

Stand until completely thawed.

Category	Weight Limit	Utensil	Food
Meat (dEF1)	0.1 ~ 4.0kg	Microwave-safe plate	Meat Minced beef, Fillet steak, Cubes for stew, Sirloin steak, Pot roast, Rump roast, Beef burger, Lamp chops, Rolled roast, Sausage, Cutlets(2cm)
			After defrosting, stand covered with aluminum foil for 5-15 minutes.
Poultry (dEF2)			Poultry Whole chicken, Legs, Breasts, Turkey breasts(under 2.0kg)
			After defrosting, stand covered with aluminum foil for 20-30 minutes.
Fish (dEF3)			Fish Fillets, Steaks, Whole fish, Sea foods
			After defrosting, stand covered with aluminum foil for 10-20 minutes.
Frozen vegetables (dEF4)	0.1 ~ 2.0 kg	Microwave -safe bowl	Mixd vegetables, Baby carrots, etc. 1. Put the frozen food on a microwave-safe bowl. Place in the oven. 2. Adjust weight and press start. When beep,open the door and stir. 3. After defrosting, stand for 5 minutes.

QuickDefrost

Use this function to thaw only 0.5kg of Minced meat very quickly. This will require a standing time to allow the center to thaw. In the following example will show you how to defrost 0.5kg of forzen minced meat.



During defrosting your oven will "BEEP", at which point open the oven door, turn food over and separate to ensure even thawing. Remove any portions that have thawed or shield them to help slow down thawing.

After checking close the oven door and press START/QUICK START to resume defrosting.

Your oven will not stop defrosting (even when the beep sounded) unless the door is opened.

Press STOP/CLEAR.

Weight the food that you are about to defrost. Be certain to remove any metallic ties or wraps; then place the food in your oven and close the oven door.

Press QUICK DEFROST

The oven works automatically.

Quick Defrost Guide

Use this function to defrost quickly for minced meat.

Remove the meat completely from its wrapping. Place the mince onto a microwave-safe plate.

When beeps, at this point remove the mince from the microwave oven, turn the mince over and return to the microwave oven

Press start to continue. At the end of the program remove the mince from the microwave oven, cover with foil and allow to stand

5-15 minutes or until completely thawed.

Category	Weight	Utensil	Instructions
MINCED MEAT	0.5kg	Microwave-safe plate	Minced meat After defrosting, stand covered with aluminum foil for 5-15 minutes.

In the following example I will show you how to change the preset AUTO COOK programmes for a longer or shorter cooking time.

More or Less Cooking



If you find that your food is over or undercooked when using the AUTO COOK programme, you can increase or decrease cooking time by pressing the key

When cooking without Auto function you can extend the cooking time at any point by pressing key.

There is no need to stop the cooking process.

Press STOP/CLEAR.

Set the required AUTO COOK programme.

(Select weight of food.)

Press START.

Press MORE

The cooking time will increase by 10 seconds for each press of the key.

Press LESS

The cooking time will decrease by 10 seconds for each press of the key.

Important safety instructions

Read carefully and keep for future reference

WARNING

Please ensure cooking times are correctly set as over cooking may result in FIRE and subsequent DAMAGE to the OVEN.

- 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. It is hazardous for anyone to carry out any service or repair operation which involves the removal of any cover which gives protection against exposure to microwave energy. 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 use the oven for the purpose of dehumidification. It can be the cause of serious damage of safety. (ex. Operating the microwave oven with the wet newspapers, clothes, toys, pet or portable electric devices, etc.)
- 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 Remove 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.
- 16 If the oven door or door seals are damaged, the oven must not be operated until it has been repaired by a qualified service technician.
- 17 If smoke is observed, switch off or disconnect the oven from the power supply and keep the oven door closed in order to stifle any flames.
- 18 When food is heated or cooked in disposable containers of plastic, paper or other combustible materials, check the oven frequently due to the possibility of the food container is deteriorating.
- 19 Only allow children to use the oven without supervision when adequate instructions have been given so that the child is able to use the oven in a safe way and understands the hazards of improper use.
- 20 Liquids or other foods must not be heated in sealed containers since they are liable to explode.
- 21 Do not operate the oven, if the door seals and adjacent parts of the microwave oven are faulty, until the oven has been repaired by a qualified service technician.
- 22 Check the utensils are suitable for use in microwave ovens before use.
- 23 Do not touch the oven door, outer cabinet, rear cabinet, oven cavity, accessories and dishes during grill mode, convection mode and auto cook operations, unless wearing thick oven gloves, as they will become hot. Before clearing make sure they are not hot.

Important safety instructions Read carefully and keep for future reference

- 24 Only use utensils that are suitable for use in microwave ovens.
- 25 When heating food in plastic or paper containers, keep an eye on the oven due to the possibility of ignition.
- 26 If smoke is observed, switch off or unplug the appliance and keep the door closed in order to stifle any flames.
- 27 Microwave heating of beverages can result in delayed eruptive boiling, therefore care must be taken when handing the container.
- 28 The contents of feeding bottles and baby food jars shall be stirred or shaken and the temperature checked before consumption, in order to avoid burns.
- 29 Eggs in their shell and whole hard-boiled eggs should not be heated in microwave ovens since they may explode, even after microwave heating has ended.
- 30 Details for cleaning door seals, cavities and adjacent parts.
- 31 The oven should be cleaned regularly and any food deposits removed.
- 32 Failure to maintain the oven in a clean condition could lead to deterioration of the surface that could adversely affect the life of the appliance and possibly result in a hazardous situation.

- 33 Only use the temperature probe recommended for this oven (for appliances having a facility to use a temperature-sensing probe).
- 34 If heating elements are provided, during use the appliance becomes hot. Care should be taken to avoid touching heating elements inside the oven.
- 35 The appliance is not intended for use by young children or infirm persons without supervision.

WARNING: If the door or door seals are damaged, the oven must not be operated until it has been repaired by a competent person.

WARNING: It is hazardous for anyone other than a competent person to carry out any service or repair operation that involves the removal of a cover which gives protection against exposure to microwave energy.

WARNING: Liquids and other foods must not be heated in sealed containers since they are liable to explode.

WARNING: Only allow children to use the oven without supervision when adequate instructions have been given so that the child is able to use the oven in a safe way and understands the hazards of improper use.

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

Provided they are made specially for cooking, cooking bags are microwave safe. 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.

Utensils should be checked to ensure that they are suitable for use in microwave ovens.

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 roasts 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. Remember 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. Round 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 cling 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. Food 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.

Elevating

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 clean

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 clean

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.

5 Do not use any steam cleaner.

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 Fan operates even when not operating the microwave oven. Is it failure?

A No. 'Auto Cooling System' operates such that the fan automatically operates for the consumer's safety if interior temperature of the microwave oven is more than appropriate values after cooking is completed.

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.
 - 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 CORN. NEVER ATTEMPT TO POP LEFTOVER KERNELS

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

A WARNING

This appliance must be earthed

The wires in this mains lead are colored in accordance with the following codes
BLUE ~ Neutral
BROWN ~ 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 terminals in your plug proceed as follows:

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

The wire which is colored BROWN must be connected to the terminal which is marked with the letter L or colored RED.

The wire which is colored GREEN & YELLOW or GREEN must be connected to the terminal which is marked with the letter E or $\stackrel{\leftarrow}{=}$.

If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard;

Technical Specification

	MS-2348DR / MS-2348DRS /
	MS-2348DRB
Power Input	230 V AC /50Hz
Output	850 W (IEC60705 rating standard)
Microwave Frequency	2450 MHz
Outside Dimension	507 mm(W) X 283mm(H) X 435mm(D)
Power Consumption Microwave	1250 Watts



Disposal of your old appliance

- When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
- All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
- 3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
- For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

P/No.: MFL61941404