



MICROWAVE/GRILL OVEN

OWNER'S MANUAL

PLEASE READ THIS OWNER'S MANUAL THOROUGHLY BEFORE OPERATING.

MH-6348E

MH-6348B

MH-6348ES

MH-6348BS

MH-6348EB

MH-6348BB

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.

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.

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.

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 create 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

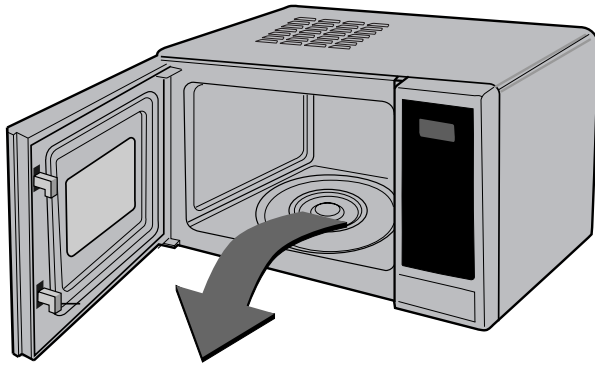
Your microwave oven is one of the safest of all home appliances. When the door is opened, the oven automatically stops producing microwaves. Microwave energy is converted completely to heat when it enters food, leaving no "left over" energy to harm you when you eat your food.

Precautions	2
Contents	3
Unpacking & Installing	4~5
Setting the Clock	6
Child Clock	7
Micro Power Cooking	8
Micro Power Level	9
Two stage Cooking	10
Quick Start	11
Grill Cooking	12
Combination Cooking	13
Special Menu	14~17
Auto Cook	18~20
Children cook	21
Keep warming	22
Auto Defrost	23~24
Quick Defrost	25
More or Less Cooking	26
Important safety instructions	27~28
Microwave - safe Utensils	29
Food characteristics & Microwave cooking	30~31
Questions & Answers	32
Plug Wiring Information/Technical Specifications	33

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.

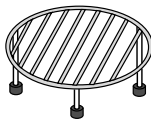
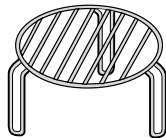
- 1** Unpack your oven and place it on a flat level surface.



GLASS TRAY

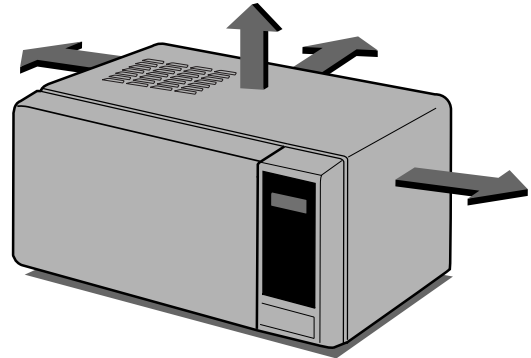


ROTATING RING



GRILL RACK

- 2** Place the oven in the level location of your choice with more than 85cm height but make sure there is at least 30cm 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.

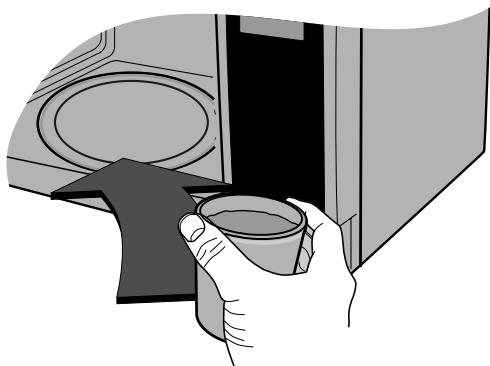


THIS OVEN SHOULD NOT BE USED FOR COMMERCIAL CATERING PURPOSES

3 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.**

4 Open your oven door by pulling the **DOOR HANDLE**. Place the **ROTATING RING** inside the oven and place the **GLASS TRAY** on top.

5 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 29 .



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



7 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

8 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

You can set either 12 hour clock or 24 hour clock.

In the following example I will show you how to set the time for 14:35 when using the 24 clock. 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) 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 different option, 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.

Press **CLOCK** or **START** to set the time.

The clock starts counting.

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. However your child can still open the oven door.

Press **STOP/CLEAR**.

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

The **CHILDLOCK** is now set.

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

"L" remains on the display to let you know that **CHILDLOCK** is set.

A gray rectangular box representing a digital display, with the letter 'L' centered in a bold, black font.

L

To cancel **CHILDLOCK** press and hold **STOP/CLEAR** until "L" disappears. You will hear BEEP when it is 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.

POWER	Power output	%
HIGH MAX	800W	100%
MEDIUM HIGH	640W	80%
MEDIUM	480W	60%
DEFROST MEDIUM LOW	320W	40%
LOW	160W	20%

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.

"640" appears on the display.

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	<ul style="list-style-type: none"> * Boil Water * Brown minced beef * Cook poultry pieces, fish, vegetables * Cook tender cuts of meat 	100%	800W
MEDIUM HIGH	<ul style="list-style-type: none"> * All reheating * Roast meat and poultry * Cook mushrooms and shellfish * Cook foods containing cheese and eggs 	80%	640W
MEDIUM	<ul style="list-style-type: none"> * Bake cakes and scones * Prepare eggs * Cook custard * Prepare rice, soup 	60%	480W
DEFROST/ MEDIUM LOW	<ul style="list-style-type: none"> * All thawing * Melt butter and chocolate * Cook less tender cuts of meat 	40%	320W
LOW	<ul style="list-style-type: none"> * Soften butter & cheese * Soften ice cream * Raise yeast dough 	20%	160W



Two stage Cooking

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 320.



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 stage 2**.

Press **MICRO** four times to select 320 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.

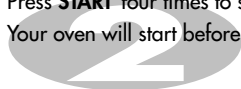


The **QUICK START** feature allows you to set 30 seconds intervals of HIGH power cooking with a touch of the **START** button.

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 by repeatedly pressing the **START** button.

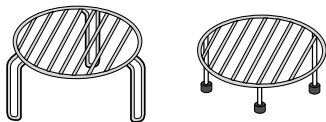


Grill Cooking

In the following example I will show you how to use the grill to cook some food for 12 minutes and 30 seconds.



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



Press **STOP/CLEAR**.

1

Press **Grill**.

2

Set the cooking time.

Press **10 MIN** once.

Press **1 MIN** twice.

Press **10 SEC** three times.

Press **START**.

4

Combination Cooking

In the following example I will show you how to programme your oven with combi mode Co-3 for a cooking time of 25 minutes.



Your oven has a combination cooking feature which allows you to cook food with **heater** and **microwave** at the same time or alternately. This generally means it takes less time to cook your food.

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

Press **STOP/CLEAR** .

1

Press **COMBI** three times " Co-3 " appears on the display.

2

Set the cooking time.

3

Press **10 MIN** twice.

Press **1 MIN** five times.

Press **START**.

4

Be careful when removing your food because the container will be hot!

Combination Cooking Mode

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	INSTRUCTIONS
Buckwheat (kasha)	0.3kg	Microwave- safe bowl (Food: Room)	<p>1.Wash 300g of buckwheat and drain.</p> <p>Add 600ml of water and salt into a deep and large bowl, let it stand for 15 minutes.</p> <p>2.Place food in the oven.Choose the menu and press start.</p> <p>3. After cooking, stand covered for 15 minutes.</p>
Home noodles	1serving	Microwave-safe bowl&cover (Food : Room)	<p>Ingredients:</p> <p>Chicken parts -500 g (chicken backs or necks or breasts)</p> <p>Water -1000ml</p> <p>Home noodles -70g</p> <p>Salt to taste.</p> <p>1. Wash chicken parts, place them into a large bowl and add 400ml of water,cover with lid. Place food in the oven.Choose the menu and press start.</p> <p>2. 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.</p> <p>3.When the second beep,open the door. Add the noodles and stir,uncovered. Press start to continue cooking.</p> <p>4. After cooking, remove from the oven and pour it into soup serving dishes and serve.</p>

FOOD CATEGORY	WEIGHT LIMIT	UTENSILS	INSTRUCTIONS																				
Mushroom goulash	4 servings	Microwave-safe bowl&cover (Food : Room)	<p>Ingredients:</p> <table> <tr> <td>Mushroom</td> <td>-500 g</td> <td>Tomato puree</td> <td>-1tablespoon</td> </tr> <tr> <td>Sweet pepper</td> <td>-1piece</td> <td>Flour</td> <td>-1tablespoon</td> </tr> <tr> <td>Onion</td> <td>-2pieces</td> <td>Sour cream</td> <td>-0.5cup</td> </tr> <tr> <td>Vegetable oil</td> <td>-2 tablespoons</td> <td>Water</td> <td>-0.5cup</td> </tr> </table> <p>Salt and pepper to taste</p> <ol style="list-style-type: none"> 1.Slice mushrooms and sweet pepper, finely chop onion. 2.Mix them and oil into a large bowl ,Uncovered. Place food in the oven. Choose the menu and press start. 3. 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. 	Mushroom	-500 g	Tomato puree	-1tablespoon	Sweet pepper	-1piece	Flour	-1tablespoon	Onion	-2pieces	Sour cream	-0.5cup	Vegetable oil	-2 tablespoons	Water	-0.5cup				
Mushroom	-500 g	Tomato puree	-1tablespoon																				
Sweet pepper	-1piece	Flour	-1tablespoon																				
Onion	-2pieces	Sour cream	-0.5cup																				
Vegetable oil	-2 tablespoons	Water	-0.5cup																				
Grilled vegetables	0.8kg	High rack On the metal tray (Food : Room)	<p>Ingredients</p> <table> <tr> <td>Zucchini</td> <td>-1 piece</td> <td>Eggplants</td> <td>-1 piece</td> </tr> <tr> <td>Onion</td> <td>-4 pieces</td> <td>Small tomatoes</td> <td>-6 piec</td> </tr> <tr> <td>Colored sweet pepper</td> <td>-4 pieces</td> <td>Small mushrooms</td> <td>-12 piec</td> </tr> </table> <p>Sauce:</p> <table> <tr> <td>Lemon juice</td> <td>-6 tablespoons</td> <td>Parsley, chopped</td> <td>-2 tablespoon</td> </tr> <tr> <td>Olive oil</td> <td>-200 ml</td> <td>Marjoram, chopped</td> <td>-2 tablespoon</td> </tr> </table> <p>Salt, pepper to taste</p> <p>Method of preparation:</p> <ol style="list-style-type: none"> 1.Slice eggplants, add salt and let stand for 30 minutes 2.Slice zucchini, onion and tomatoes into large pieces. 3.Fix vegetables and mushrooms into the skewers. About 200g percent skewer. Brush with oil. 4.Place vegetables on the high rack on the metal tray. 5.Choose the menu and press start. When beep, turn over,and press start to continue 6. After cooking ,serve the sauce separately. 	Zucchini	-1 piece	Eggplants	-1 piece	Onion	-4 pieces	Small tomatoes	-6 piec	Colored sweet pepper	-4 pieces	Small mushrooms	-12 piec	Lemon juice	-6 tablespoons	Parsley, chopped	-2 tablespoon	Olive oil	-200 ml	Marjoram, chopped	-2 tablespoon
Zucchini	-1 piece	Eggplants	-1 piece																				
Onion	-4 pieces	Small tomatoes	-6 piec																				
Colored sweet pepper	-4 pieces	Small mushrooms	-12 piec																				
Lemon juice	-6 tablespoons	Parsley, chopped	-2 tablespoon																				
Olive oil	-200 ml	Marjoram, chopped	-2 tablespoon																				

FOOD CATEGORY	WEIGHT LIMIT	UTENSILS	INSTRUCTIONS																								
Salmon roll	1pan	Metal tray on the low rack (Food : Room)	<p>Ingredients</p> <table> <tr> <td>Salmon</td> <td>-0.8kg</td> <td>Carrot</td> <td>-1 piece</td> </tr> <tr> <td>Eggs</td> <td>-2 pieces</td> <td>Flour</td> <td>- 3 tablespoon</td> </tr> <tr> <td>Cream</td> <td>-100 ml</td> <td>Mayonnaise</td> <td>-2 tablespoon</td> </tr> <tr> <td>White bread crumb</td> <td>-3 pieces</td> <td>Broccoli prepared</td> <td>-1piece</td> </tr> <tr> <td>Onion</td> <td>1 piece</td> <td>Salt, pepper to taste</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Parchment for baking</td> <td></td> </tr> </table> <p>1.Mince salmon and onion in the kitchen unit or mincing machine. Soak breadcrumb in cream and wring. Whisk eggs with mixer. Grate the carrot. Combine all the ingredients, add flour, beat up with mixer.</p> <p>2.Place parchment on the metal tray on the low rack. Place the mixture in the shape of semi ring.</p> <p>3.Choose the menu and press start to cook.</p> <p>4.When beep,open the door and take out the metal tray ,cover the roll with mayonnaise. Press start to continue cooking.</p> <p>5.After cooking ,serve with broccoli that be placed in the center of the semi ring.</p>	Salmon	-0.8kg	Carrot	-1 piece	Eggs	-2 pieces	Flour	- 3 tablespoon	Cream	-100 ml	Mayonnaise	-2 tablespoon	White bread crumb	-3 pieces	Broccoli prepared	-1piece	Onion	1 piece	Salt, pepper to taste				Parchment for baking	
Salmon	-0.8kg	Carrot	-1 piece																								
Eggs	-2 pieces	Flour	- 3 tablespoon																								
Cream	-100 ml	Mayonnaise	-2 tablespoon																								
White bread crumb	-3 pieces	Broccoli prepared	-1piece																								
Onion	1 piece	Salt, pepper to taste																									
		Parchment for baking																									
Grilled chicken wings	1.0kg	High rack On the metal tray (Food : Room)	<p>Ingredients</p> <table> <tr> <td>Chicken wings</td> <td>-1.0kg</td> <td></td> <td></td> </tr> <tr> <td>Lemon juice</td> <td>-1/2 piece</td> <td></td> <td></td> </tr> <tr> <td>Grill seasoning</td> <td>-1 tablespoon</td> <td></td> <td></td> </tr> <tr> <td>Oil</td> <td>- 1 tablespoon</td> <td></td> <td></td> </tr> </table> <p>1.Mix the ingredients of the marinade. Place the wings into the marinade and let them soak for 1 hour.</p> <p>2.Thread wings on wooden skewers, using 3 wings on each skewer, and place them on high rack on the metal tray.</p> <p>3.Choose the menu and press start. When beep, turn over,and press start to continue.</p> <p>4.After cooking serve.</p>	Chicken wings	-1.0kg			Lemon juice	-1/2 piece			Grill seasoning	-1 tablespoon			Oil	- 1 tablespoon										
Chicken wings	-1.0kg																										
Lemon juice	-1/2 piece																										
Grill seasoning	-1 tablespoon																										
Oil	- 1 tablespoon																										

Auto Cook

In the following example I will show ou how to cook 0.6kg of Grilled Fish.



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 **STOP/CLEAR** .



Press **AUTO COOK** twice to select Grilled Fish .
"Ac-2" appears on the display.



Press the **MORE** key five times to enter 0.6kg.



Press **START**.



FOOD CATEGORY	WEIGHT LIMIT	UTENSILS	INSTRUCTIONS												
Grilled chicken (Ac 1)	0.8-1.5kg	Low rack On the metal tray (Food : Refrigerated)	<p>Ingredients</p> <table> <tr> <td>1Chicken</td> <td>1.1-1.2kg</td> <td>Vegetable oil</td> <td>1 tablespoon</td> </tr> <tr> <td>Lemon juice</td> <td>½ piece</td> <td>Garlic</td> <td>1-3 crushed</td> </tr> <tr> <td></td> <td></td> <td>bay leaf</td> <td>1 piece</td> </tr> </table> <p>Spice for grill, spice for broiler, salt and pepper to taste</p> <ol style="list-style-type: none"> 1.Pickle a chicken for 1 hour. 2.Place chicken on the low rack on the metal tray on the glass turntable in the oven. 3.Adjust weight and press start. 4. When beep, open the door and turn food over. Press start to continue cooking. After cooking, remove from the oven and stand for 3-5 minutes before serving. Serve with boiled buckwheat or boiled rice. 	1Chicken	1.1-1.2kg	Vegetable oil	1 tablespoon	Lemon juice	½ piece	Garlic	1-3 crushed			bay leaf	1 piece
1Chicken	1.1-1.2kg	Vegetable oil	1 tablespoon												
Lemon juice	½ piece	Garlic	1-3 crushed												
		bay leaf	1 piece												
Grilled fish (Ac 2)	0.2-0.6kg	Low rack On the metal tray On the glass turntable (Food : Refrigerated)	<p>Ingredients</p> <p>2 fishes 150g of mayonnaise Spice for grill, spicy grasses, citric seasoning for a fish</p> <ol style="list-style-type: none"> 1.Strew fishes with spice and pickle in mayonnaise an approximately for 1 hour. 2.Place fishes on the low rack on the metal tray in the oven. 3.Choose the menu and adjust weight. Press start to cook. 4.When beep, open the door and turn food over. Press start to continue cooking. 5.After cooking, remove from the oven and stand covered with aluminum foil for 2-3min. 												

FOOD CATEGORY	WEIGHT LIMIT	UTENSILS	INSTRUCTIONS
Roast Beef (Ac 3)	0.5-1.5kg	Low rack On the metal tray (Food : Refrigerated)	Brush the beef with melted margarine or butter. Place on the low rack on the metal tray, The oven will beep, turn food over and press start to continue. After cooking, stand covered with foil for 10 minutes before serving.
Roast Pork (Ac 4)	0.5-1.5kg	Low rack On the metal tray (Food : Refrigerated)	Brush the pork with melted margarine or butter. Place on the low rack on the metal tray, The oven will beep, turn food over and press start to continue. After cooking, stand covered with foil for 10 minutes before serving.
Roast Veal (Ac 5)	0.5-1.5kg	Low rack On the metal tray (Food : Refrigerated)	Prepare marinade : mix lemon juice, vegetable oil, and spices, cut garlic Marinate meat for 1 hour. Place the veal on the low rack on the metal tray. Choose the menu and adjust weight. Press start to cook. When beep, open the door and turn food over. Press start to continue cooking. After cooking, remove from the oven and stand covered with aluminum foil for 10 minutes

Children Cook

In the following example I will show you how to cook 0.5 kg of Grilled sausage.



Press **Stop/Clear**.

1

Press **Children cook** to select the *Grilled sausage*.
The oven will start automatically.

2

Press the **MORE** key five times to enter **0.5kg**.

3

Press **START**.

4

Children Cook Guide

Use this function to cook *Grilled sausage* quickly for children.

CATEGORY	WEIGHT	UTENSIL	INSTRUCTIONS
Grilled sausage	0.1-0.5kg	Low rack On the metal tray (Food : Refrigerated)	1.Remove all packages and slit on the surface. Place it on the metal tray on the rack. 2.Open the door and make the moving heater horizontal. 3.Choose the menu and adjust weight.Press start to cook. 4.After cooking, remove from the oven. And serve.

Keep Warming

In the following example I will show you how to use the keep warming function to warm food at high level in 90 min.



If you want to warm your food when using the AUTO COOK programme, you can get the warming food by pressing the key.

When the food without Auto function need warming you can set warming at any point by pressing the key.

Keep warming function has only one time level-90 minutes. But the function will stop when you open the door.

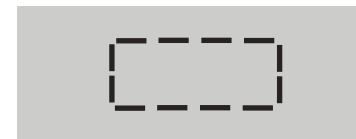
LEVEL	Press keep warming	Display
Low level	1 time	H0-L
High level	2 times	H0-H

Keep warming manually

Put some food into the micro-wave oven, press **"keep warming"** two times, "HO-H" appears on the display. Press **"start"**.

When keeping warming is running, it will display

And then you press **"keep warming"** again, the left time to keep warming will appear on the display.



Keep warming after AUTO COOK

Set the required AUTO COOK programme. Press **"start"**. And after the AUTO COOK programme, it will automatically run keeping warming function when five minutes later after AUTO COOK is over.

When the AUTO COOK is over, you can also press **"keep warming"**, and it will run keep warming function right away.

Display	Cover & Wrap	Difference in temperature after warming
H0-H	X	15°C
H0-H	O	8°C
H0-L	X	25°C
H0-L	O	15°C

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.

Category	Press DEFROST
MEAT	1 time
POULTRY	2 times
FISH	3 times
Frozen vegetables	4 times

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.

"dEF-2" appears on the display.

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 WEIGHT 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, at this point remove the food from the microwave oven, turn the food over and return to the microwave oven. Press start to continue. At the end of the program, remove the food from the microwave oven, cover with foil and allow to stand until completely thawed. To thaw completely, for example joints of meat and whole chickens should STAND for a minimum of 1 hour before cooking.

Category	Weight Limit	Utensil	Food
Meat Poultry Fish	0.1 ~ 4.0 kg	Microwave ware (Flat plate)	Meat Minced beef, Fillet steak, Cubes for stew, Sirloin steak, Pot roast, Rump roast, Beef burger Pork chops, Lamb chops, Rolled roast, Sausage, Cutlets(.2cm) Turn food over at beep. After defrosting, let stand for 5-15 minutes. Poultry Whole chicken, Legs, Breasts, Turkey breasts(under 2.0kg) Turn food over at beep. After defrosting, let stand for 20-30 minutes. Fish Fillets, Steaks, Whole fish, Sea foods Turn food over at beep. After defrosting, let stand for 10-20 minutes.
Frozen vegetables	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.

Quick Defrost

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 frozen 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.

More or Less Cooking

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



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.

WARNING

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

Important safety instructions

Read carefully and keep for future reference

- 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 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 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 handling 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 is 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. 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.

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 spills 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 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 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, just 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 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 \perp .


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

	MH-6348E/MH-6348ES MH-6348EB	MH-6348B/MH-6348BS MH-6348BB
Power Input	230 V AC /50Hz	
Output	800W (IEC60705 rating standard)	
Microwave Frequency	2450 MHz	
Outside Dimension	485mm(W) X 280 mm(H) X 377 mm(D)	
Power Consumption		
Microwave	1200 Watts	
Grill	1100 Watts	
Combination	2250 Watts	



<English>

 **Disposal of your old appliance**

1. 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.
2. 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.
4. 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.