



# MICROWAVE OVEN

## OWNER'S MANUAL & COOKING GUIDE

MODEL : MS-197MCG

Please read this manual carefully before operating your set. □  
Retain it for future reference.

## INSTALLATION

Install your oven by following three simple steps:

1. Remove all packing materials and accessories.
2. Place the oven in the level location of your choice but make sure there is at least 10 cm of place on the top and at the rear for proper ventilation. The top of the oven should be kept clear.  
An exhaust outlet is located on bottom of the oven. Blocking the outlet can damage the oven.
3. Plug your oven into a standard household outlet. Be sure the electrical circuit is at least 13 amps and that your microwave oven is the only appliance on the circuit.

**NOTE:** If your oven does not operate properly, unplug it from the household outlet and then plug it back in.

This appliance should not be used for commercial catering purposes.

## WIRING INSTRUCTIONS

### IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue	: Neutral
Brown	: Live
Green and 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 wires which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

The wire which is coloured green and yellow must be connected to the terminal which is marked with the earth symbol  $\perp$  or coloured green.

## **PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY**

Do not attempt to operate the with the door open since open door operation can 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 soil or cleaner residue to accumulate on sealing surfaces.

Do no operate the 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.

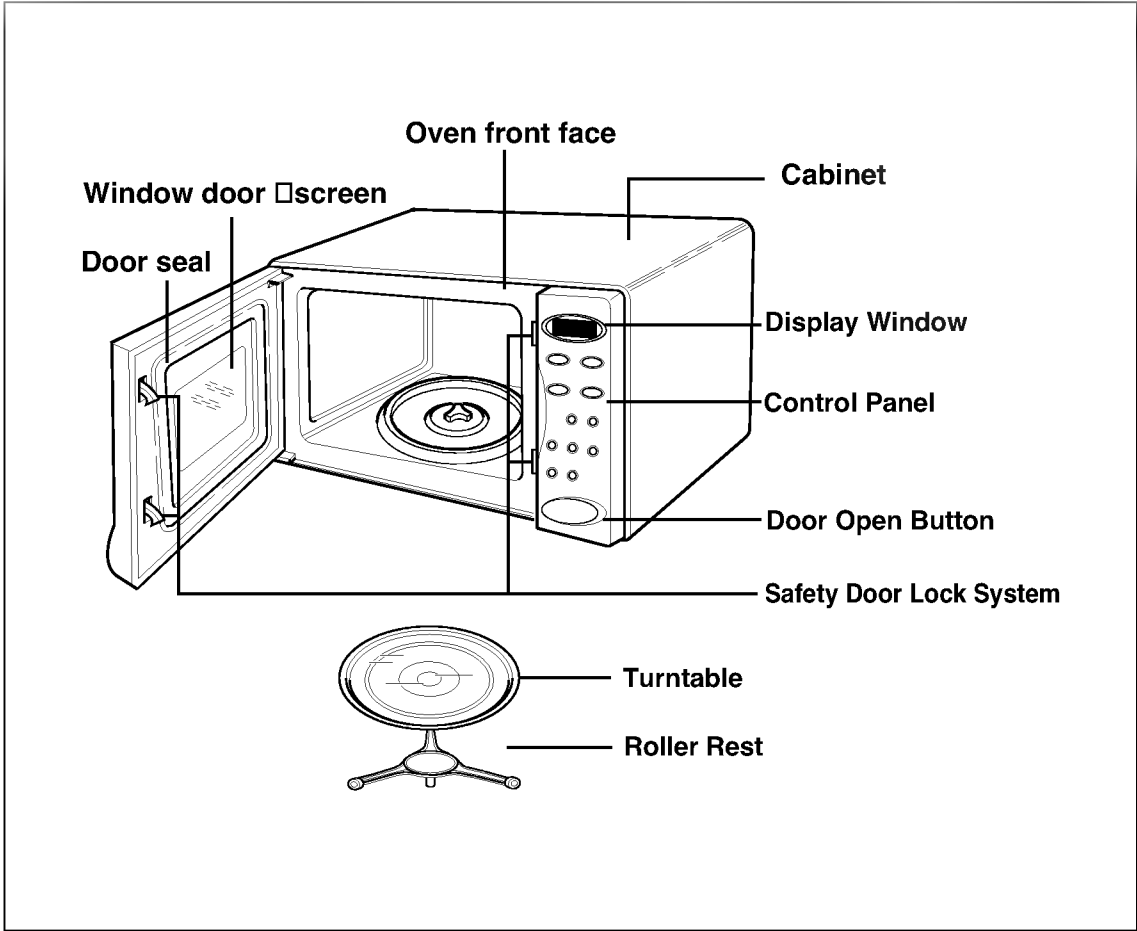
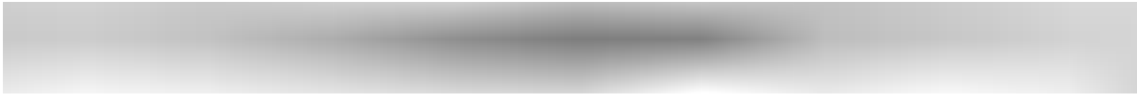
The oven should not be adjusted or repaired by anyone except properly qualified service personnel.

### **WARNING**

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



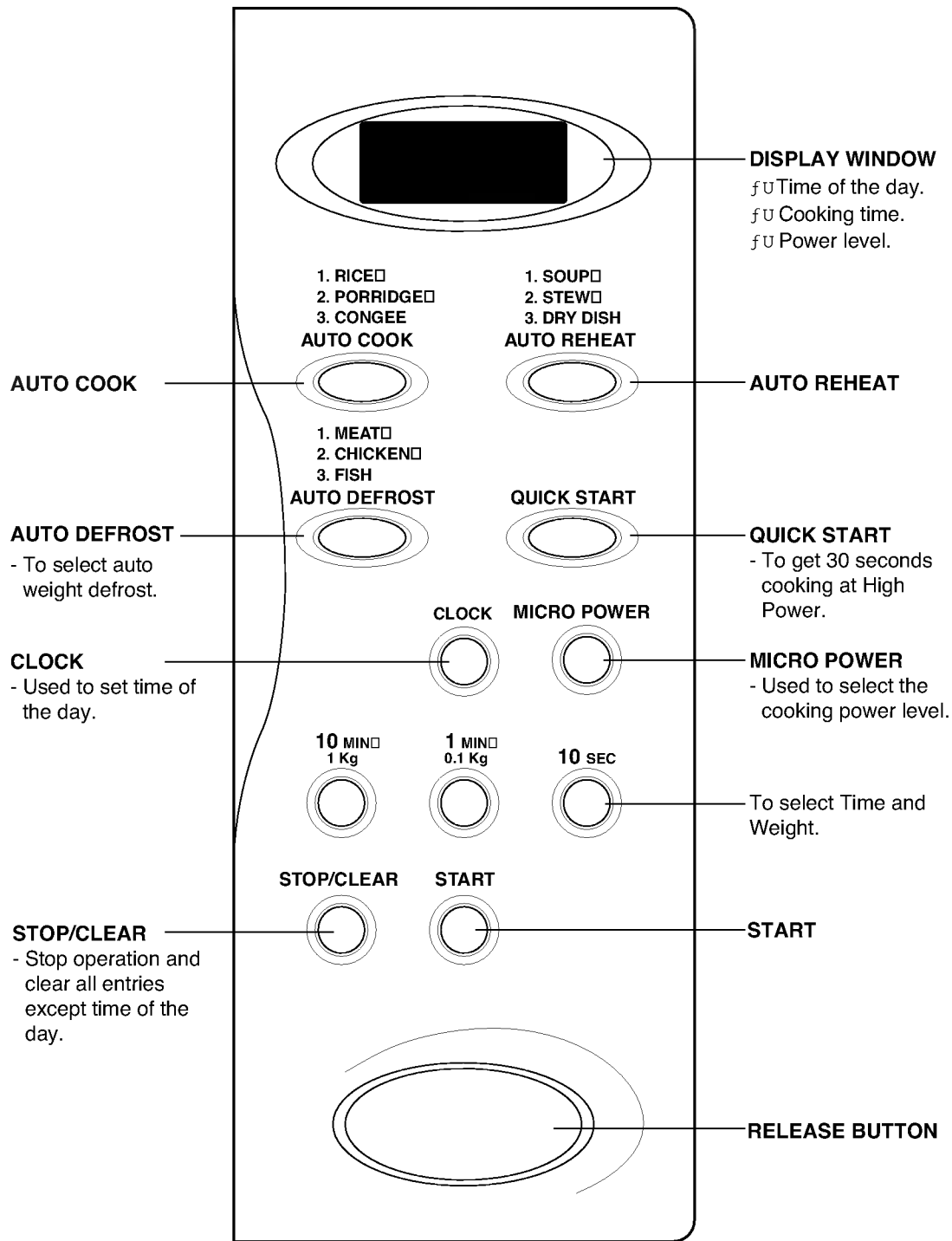
GENERAL INSTRUCTIONS .....	2
TABLE OF CONTENTS .....	3
FEATURE DIAGRAM .....	4
CONTROL PANEL .....	5
OPERATING INSTRUCTIONS .....	6
SETTING THE CLOCK/TIME AND POWER COOKING .....	6
AUTO DEFROST .....	7
AUTO COOK/AUTO REHEAT .....	8
QUICK START/CHILD LOCK .....	9
SAFETY PRECAUTIONS .....	10
CLEANING AND CARE .....	11
QUESTIONS AND ANSWERS .....	12
COOKING UTENSILS/SPECIFICATIONS .....	13
SERVICE CENTER .....	14



Remove your Microwave Oven and all materials from the shipping carton. Your oven will be packed with the following materials:



- Glass Turntable ..... 1 Each
- Roller Rest ..... 1 Each
- Owner's Manual & Cooking Guide ..... 1 Each

**DO NOT USE THIS MICROWAVE OVEN FOR COMMERCIAL PURPOSES.  
THIS MICROWAVE OVEN IS MADE FOR HOUSEHOLD USE ONLY.**



# 1. SETTING THE CLOCK

**EXAMPLE:** To set 3 : 45.

STEP	KEY BUTTON	
1. Plug the power cord into an electrical outlet. 2. Press "STOP/CLEAR". 3. Press "CLOCK". 4. Press "10 MIN" 3 times. 5. Press "1 MIN" 4 times. 6. Press "10 SEC" 5 times. 7. Press "CLOCK".	OPERATION	
	DISPLAY	

**NOTE:**

This is a 12 hour clock.

# 2. TIME AND POWER COOKING

**POWER:**

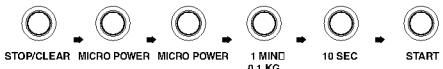

The oven has five power settings, incorporating the most commonly used power levels. To initiate power, touch POWER pad.

**Hi power is automatically available when power is selected. Continuous pressing of the POWER pad will select different power as detailed.**

To alter power to your requirements proceed as detailed below:

POWER	KEY BUTTON	PERCENT(%)
High	Once	100
Medium High	Twice	80
Medium	3 times	60
Defrost (Medium Low)	4 times	40
Low	5 times	20
High	6 times	100

**EXAMPLE:** To cook food on Medium High for 5 minutes 30 seconds.

STEP	KEY BUTTON	
1. Press "STOP/CLEAR". 2. Press " MICRO POWER". 3. Press "MICRO POWER" twice for Medium High Power. 4. Press "1 MIN" 5 times. 5. Press "10 SEC" 3 times. 6. Press "START".	OPERATION	
	DISPLAY	

### 3. AUTO DEFROST

Your microwave oven controls different output powers automatically during defrost cycle. Program by setting weight of food (Meat, Poultry, Fish) and selecting Auto Defrost function.

#### 1. DEFROST 1 : MEAT (Touch "AUTO DEFROST" once)

**EXAMPLE:** To defrost 0.4 kg of meat.

STEP	KEY BUTTON	
1. Measure the weight of frozen food you wish to cook and place in the oven and close door. 2. Press "STOP/CLEAR". 3. Press "AUTO DEFROST" once to select meat defrosting programmed. 4. Press "0.1 KG" 4 times. 5. Touch "START".	OPERATION	
	DISPLAY	

#### 2. DEFROST 2 : CHICKEN (Touch "AUTO DEFROST" twice.)

**EXAMPLE:** To defrost 1.4 kg of poultry.

STEP	KEY BUTTON	
1. 2. Steps 1 and 2 are the same as "DEFROST 1", above. 3. Touch "AUTO DEFROST" twice to select chicken defrosting programmed. 4. Press "1 KG" once and "0.1 KG" 4 times. 5. Touch "START".	OPERATION	
	DISPLAY	

#### 3. DEFROST 3 : FISH (Touch "AUTO DEFROST" three times.)

**EXAMPLE:** To defrost 2.0 kg of fish.






STEP	KEY BUTTON	
1. 2. Steps 1 and 2 are the same as "DEFROST 1". 3. Touch "AUTO DEFROST" 3 times to select fish defrosting programmed. 4. Press "1 KG" twice. 5. Touch "START".	OPERATION	
	DISPLAY	

**NOTE:**

1. This oven can defrost from 0.1 kg to 4.0 kg.
2. Basic defrost quantity is 0.1 kg.
3. The oven may be programmed to accept stage 1 and / or stage 1 & 2 cooking instructions after defrosting cycle. Due to the many variables associated with defrosting e. g. some foods are deeper frozen than others, defrosted foods should be checked, and in some instances may require further defrosting, prior to cooking, therefore we urge caution with dense foods (joints) and in particular chicken.

## 4. AUTO COOK






Most microwave ovens require the selection of the power level and time for cooking. Your new oven makes cooking convenient and enables you to cook foods, "AUTO COOK" provides three preset categories for cookings.

STEP		KEY BUTTON	
1. Press "Stop/Clear". 2. Press "Auto Cook". (1: RICE, 2: PORRIDGE, 3: CONGEE) 3. Touch "Start".	OPERATION	 STOP/CLEAR	 AUTO COOK
	DISPLAY	 0	 1  19:00

NO	CATEGORY	AMOUNT	INSTRUCTIONS
1	RICE	150 g of rice 0.25 ㉨ of water	Wash rice until water runs clear. Place rice water into a deep casserole (about 3㉨) and soak for 30 mins. Cook with cover. After cooking, stir lightly and stand with cover for 5 mins.
2	PORRIDGE	100 g of rice 0.8 ㉨ of water	Same as rice
3	CONGEE	100 g of rice 1.0 ㉨ of water	Place boiled rice in a casserole and add diced vegetables. Cook with cover.

## 5. AUTO REHEAT

Most microwave ovens require the selection of the power level and time for reheating. Your new oven makes reheating convenient and enables you to reheat foods, "AUTO REHEAT" provides three preset categories for reheatings.

STEP		KEY BUTTON	
1. Press "STOP/CLEAR". 2. Press "AUTO REHEAT". (1 : SOUP, 2 : STEW, 3 : DRY DISH)	OPERATION	 STOP/CLEAR	 AUTO REHEAT
	DISPLAY	 0	 1  6:40

NO	CATEGORY	AMOUNT	INSTRUCTIONS
1	SOUP	750 g	Pour the soup in a low dish cover with wrap.
2	STEW	500 g	Pour the stew in a low dish same as soup.
3	DRY DISH	300 g	Same as soup.



## 6. QUICK START

One of the most useful time savers.

The “QUICK START” feature allows you to get 30 seconds cooking at High Power with a touch of “QUICK START” key.

It is possible to get up to 60 minutes at High Power with the repetitive pressing of the key.



**EXAMPLE:** 2 minutes cooking on Hi power.

STEP	KEY BUTTON	
1. Press “STOP/CLEAR”.  2. Press 2 minutes on High, press “Start” 4 times.	OPERATION	
	DISPLAY	

## 7. CHILD LOCK

Your oven has a lock out feature that inactivates the microwave power until you cancel the lock out.



### TO SET CHILD LOCK

STEP	KEY BUTTON	
1. Press “STOP/CLEAR”.  2. Press and hold “STOP/CLEAR” until a tiny “L” appears at the left of the display and a single beep is heard.	OPERATION	
	DISPLAY	

**NOTE:**


In this condition, the oven will not operate when “START” key has been touched.

### TO CANCEL THE CHILD LOCK

STEP	KEY BUTTON	
1. Press “STOP/CLEAR”.  2. Press and hold “STOP/CLEAR” until a tiny “L” disappears from the display and a single beep is heard.	OPERATION	
	DISPLAY	

**NOTE:**

Oven is now ready to use.

- 
1. Do not attempt to tamper with, or make any adjustments or repairs to the door, control panel, safety interlock switches or any other part of the oven. Repairs should 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 metal containers or crockery 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 over heat and burn.
  11. Be certain to place the oven so the front of the door is 8cm or more behind the edge of the surface on which it sits to prevent heat and burn.
  12. Before cooking, pierce the skin of potatoes, apples or any such fruit or vegetables.
  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, as detailed in microwave cook books.
  16. The oven must never be used if the door sealing is not in good working order.
  17. When liquids are cooked in microwave units, they may be overheated above their boiling point without visible bubbling. When the container is removed, the shock may cause the sudden formation of steam bubbles. A fountain of hot liquid can spring up out of the container explosively.
  18. If smoke is observed, keep the oven door closed, and switch off or disconnect the oven from the power supply.
  19. When food is heated or cooked in disposable containers of plastic, paper or other combustible materials, look at the oven frequently to check if the food container is deteriorating.

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

BE SURE THE OVEN IS TURNED OFF BEFORE CLEANING.

Keep the oven interior surfaces clean and dry. As a general rule, clean the oven every day, unless it has not been used.

## INTERIOR WALLS

Remove any crumbs and food remains between the door and oven using a damp cloth. This area has to be particularly well cleaned to ensure the door will shut properly. Remove any grease splashes with a soapy cloth, then rinse and dry. Do not use any cleaning cloth or pad, or cleaning agent that is abrasive because this should scratch and damage the metal surface of the oven.

NEVER POUR WATER INTO THE OVEN.

## DOOR

The door and door seals should be kept clean Use only warm, soapy water to 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.

## EXTERIOR

The outer cabinet is painted metal. Clean with mild soap and warm water, rinse and dry with a soft cloth. Do not spill water in the vents. If the power cord becomes soiled wipe it with a damp cloth or soapy water. ALWAYS ENSURE THAT THE DOOR SEALING SURFACES ARE CLEAN.

### ROTATING RING

The rotating ring should be removed and cleaned in hot soapy water at least once a week to prevent grease restricting the rotation of the wheels.

### WARNING

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

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

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

**A.** ;E Light bulb has blown. ;E Door is not closed.

**Q.** Why is steam coming out of the air exhaust vent?

**A.** Steam is normally produced during cooking operations. The microwave oven has been made to vent steam out of the side vent. This steam may condense on the door and drip out of the bottom of the seal, this is quite normal and safe.

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

**A.** No. The metal screen reflects the energy to the oven cavity. The holes or ports are made to allow light to pass; they do not let microwave energy through.

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

**A.** Yes. Never run it empty.

**Q.** Why do eggs sometimes pop?

**A.** When backing, or poaching eggs, the yolk may pop due to steam build up inside the yolk membrane. To prevent this, simply pierce the yolk with a toothpick before cooking. Never cook eggs without piercing shells.

**Q.** Why does may oven not always cook as fast as the microwave cooking guide says?

**A.** Check your cooking guide again to make sure you've followed directions exactly; and to see what might cause variations in cooking time. Cooking guide time and heat settings are suggestions, to help prevent over cooking... the most common problem in getting used to a microwave oven. Variations in the size, shape and weights and dimensions could require longer cooking time. Use your own judgement along with the cooking guide suggestions to check whether the food has been properly cooked just as you would do with a conventional cooker.

**Q.** Why do sparks and crackling (arcing) occur in the oven?

**A.** There may be several reasons why sparks and crackling (arcing) within cavity happens.  
;E You are using dishes with metal parts or trim (silver or gold)  
;E You have left a fork or other metal utensil in the oven.  
;E You are using a large amount of metal foil.  
;E You are using a metal twist - tie.

**Q.** The display is blank. Why?

**A.** ;E Check that the oven is plugged in and switched on.  
;E Check that the plug wiring is correct and secure.  
;E Check the fuse has blown.

## COOKING UTENSIL:

Most glass, glass ceramic and heat resistant glassware utensils are excellent. Those with metallic trim must not be used in microwave oven.

Any utensil used for microwave cooking must be capable of withstanding very high temperatures from the food. There are many heat resisting utensils, of paper or plastic, available which can be used in both microwave and convectional ovens.

Many traditional cooking utensils are, of course, perfectly satisfactory. To find out whether pottery, stoneware or porcelain items (cooking utensils and serving dishes, etc.) are safe, check them in the oven. Place the empty container in the oven and turn on the power for one minute. If the container becomes very hot (be careful not to burn your fingers) it is not suitable.

Metal containers and deep trays are not suitable. They reflect energy away from the food. Foil lined cartons are, similarly, unsuitable.

Place the utensil in question next to a glass measure filled with water in the microwave oven.

Set the microwave to maximum power for 1 minutes, if the water heats up, but the utensil remains cold to touch, the utensil is microwave oven.

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.

NOTE: To ensure even cooking of food that has thin and thick sections, shield the thinner pieces with aluminium foil. Make certain, however, that the foil is at least 2.5 cm away from the sides of the oven.

Power Input	: 220 V AC., 50 Hz
Output	: 800 Watts (IEC 705)
Microwave Frequency	: 2450 MHz
Outside Dimensions	: 483 (W) X 280 (H) X 348 (D) mm
Cavity Dimensions	: 302 (W) X 194 (H) X 318 (D) mm
Power Consumption	: 1100 Watts
Net weight	: 13.7 Kg (approx.)

\* Dimensions shown are approximate.

\* Because we continually strive to improve our products we may change specifications without prior notice.

## THAILAND

LG MITR ELECTRONICS CO., LTD  
SUKHUMVIT SERVICE CENTER  
75/1 RICHMOND B/D SOI 26 Sukhumvit RD., Klong-Toey  
Bangkok 10110. Thailand  
TEL : 66-2-2608787 (30 Line)  
FAX : 66-2-260-8810

LG MITR ELECTRONICS CO., LTD  
OMNOI SERVICE CENTER  
84 MOO 12 PHETKASEM RD., SOI 120 Samutsakorn  
74310  
TEL : 66-2-431-0010 (10 LINE)  
FAX : 810-3378

LG MITR ELECTRONICS CO., LTD  
DIN-DAENG SERVICE CENTER  
22/2 Vipacadee-Rungsir RD., Din Daeng, Bangkok 10400,  
Thailand  
TEL : 66-2-247-3151  
FAX : 66-2-247-3153

LG MITR ELECTRONICS CO., LTD  
CHIANG MAI SERVICE CENTER  
17/9 Kwangsing Cross, Chiangmai-Lampang RD, Tambol  
Chang-1 Amphor Muang, Chiangmai 50000, Thailand  
TEL : 66-53-408-187  
FAX : 66-53-408-187

LG MITR ELECTRONICS CO., LTD  
PHISANULOK SERVICE CENTER  
5/1-2 MITRAPARB RD, Tambol Nai-Muang, Amphor Muang,  
Phisani 65000, Thailand  
TEL : 66-56-280-004  
FAX : 66-56-280-007

LG MITR ELECTRONICS CO., LTD  
UDON THANI SERVICE CENTER  
304 Moo 4, Liang-Muang Ban Muang RD, Tambol  
Nongkhonkwang, Amphor Muang, Udon Thani 41000, Thailand  
TEL : 66-42-249-562  
FAX : 66-42-249-562

