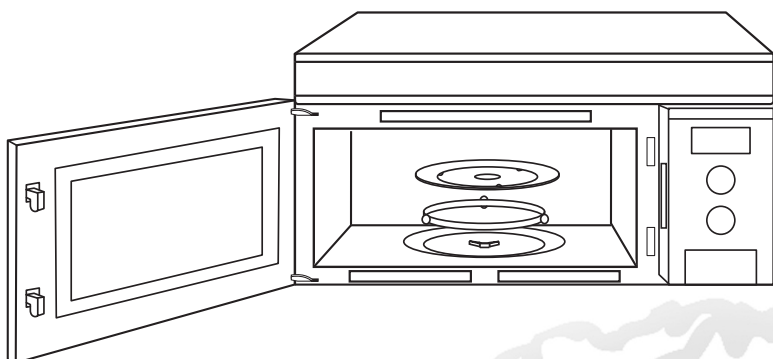


Panasonic®

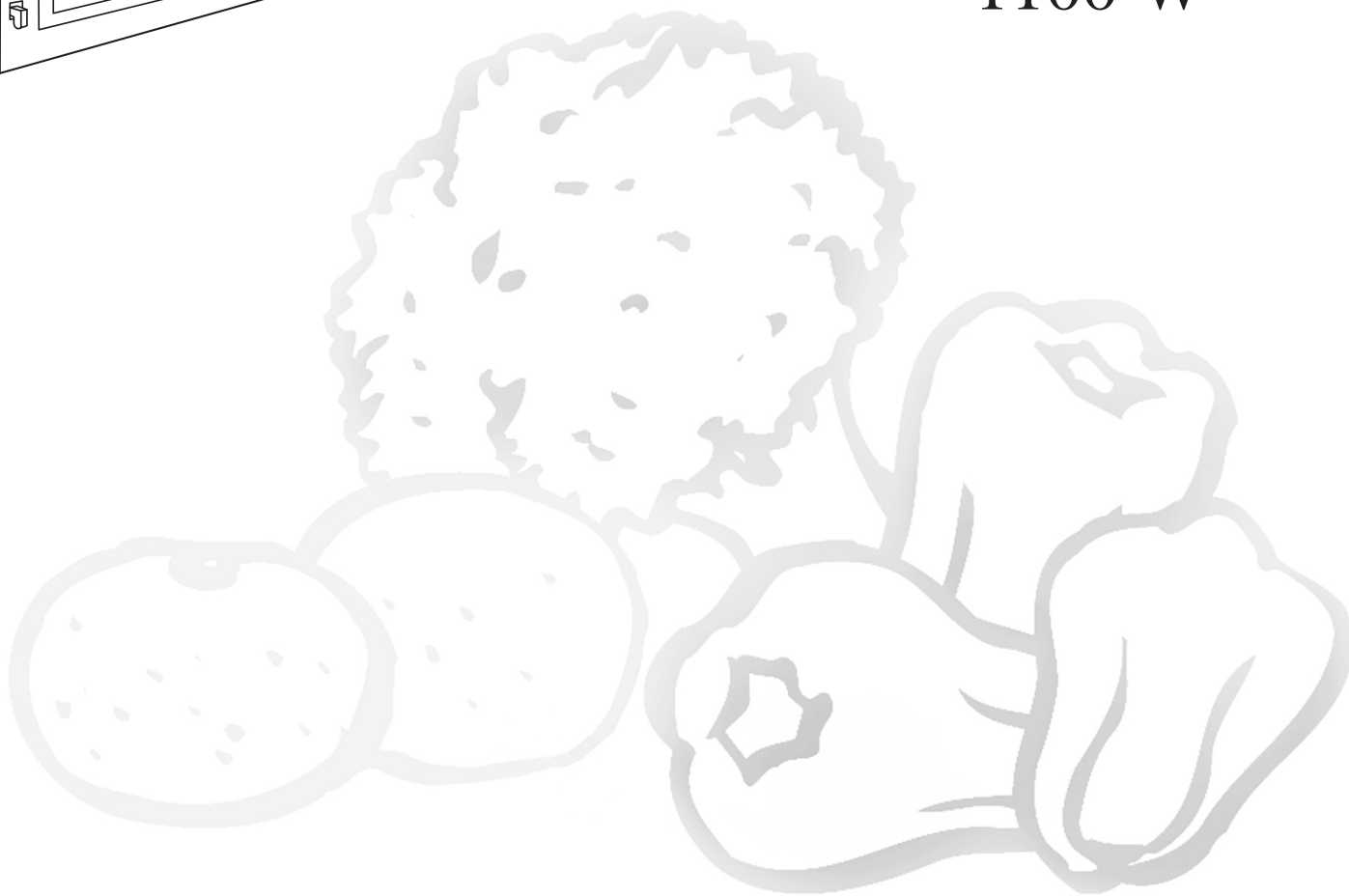
Operating Instructions Over The Range Microwave Oven

Model No. NN-SD291
Household Use Only



INVERTER

1100 W



**ATTACHED INSTALLATION INSTRUCTION
PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE USING THE OVEN,
AND SAVE THIS MANUAL FOR FUTURE USE.**

Inverser le manuel pour lire les instructions en français.

Panasonic Canada Inc.
5770 Ambler Drive
Mississauga, Ontario
L4W 2T3
Tel: (905) 624-5010
www.panasonic.ca

F00039X00CP
IP0611-0
Printed in China

Table of Contents

Safety Information

Precautions	1
Important Safety Instructions	2-3
Installation and Grounding Instructions	4-5
Safety Precautions	6

Operation

Control Panel	9
Dial Features	10
Function Features (LB/KG CHOICE/LANGUAGE CHOICE/BEEP CHOICE/MENU ACTION/DEMO MODE)	10-11
Child Safety Lock	11
Setting the Clock	12
Setting Light Hi-Warm/Hi-Cool/Low/Off	12
Setting Turntable On/Off	12
Setting Super/Turbo/Off	12
Setting Fan High/Low/Off	12
Setting Auto Off 1/3/5/10	12
Selecting Power & Cook Time	13
Quick Min Feature	13
Keep Warm Feature	13
Popcorn Feature	14
More/Less Feature	14
Inverter Turbo Defrost Feature	15
Defrosting Tips & Techniques	15-16
Sensor Reheat Feature	17
Sensor Cook Feature	17
Sensor Cook Chart	18
Microwave Recipes	19
Timer Feature (Kitchen Timer/Stand Time/Delay Start)	20
Operation	21
Microwave Shortcuts	22-23
Food Characteristics	24
Cooking Techniques	24-25
Quick Guide to Operation	31

Maintenance

Care and Cleaning of Your Microwave Oven	26-28
Cleaning Vent Grille (Oven Air Vent)	27
Installing the Replacement Charcoal Filter	27
Installing Vent Grille	27
Cleaning Grease Filters	28
Installing Grease Filters	28
Oven Light Replacement	28
Before Requesting Service	29
Warranty	30

General Information

Cookware Guide	7
Oven Components Diagram	8
Specifications	32
User's Record	32
Notes	33

Microwave Oven Safety

Your safety and the safety of others are very important.

We have provided important safety messages in this manual and on your appliance. Always read and obey all safety messages.



This is the safety alert symbol. It is used to alert you to potential hazards that can kill or hurt you and others.

All safety messages will follow the safety alert symbol and either the word "DANGER", "WARNING" or "CAUTION". These words mean:

DANGER

You can be killed or seriously injured if you don't immediately follow instructions.

WARNING

You can be killed or seriously injured if you don't follow instructions.

CAUTION

You can be exposed to a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

All safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.



PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- (a) Do not attempt to operate this oven with the door open since open-door operation can result in harmful exposure to microwave energy. It is important not to defeat or tamper with the safety interlocks.
- (b) Do not place any object between the oven front face and the door or allow soil or cleaner residue to accumulate on sealing surfaces.
- (c) Do not operate the oven if it is damaged. It is particularly important that the oven door close properly and that there is no damage to the:
 - (1) door (bent),
 - (2) hinges and latches (broken or loosened),
 - (3) door seals and sealing surfaces.
- (d) The oven should not be adjusted or repaired by anyone except properly qualified service personnel.

Thank you for purchasing a Panasonic Microwave Oven.

Your microwave oven is a cooking appliance and you should use as much care as you use with a stove or any other cooking appliance. When using this electrical appliances, basic safety precautions should be followed, including the following:



IMPORTANT SAFETY INSTRUCTIONS



WARNING

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

1. Read all instructions before using this appliance.
2. Read and follow the specific "PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY," found on page 1.
3. This appliance must be grounded. Connect only to a properly grounded outlet. See "GROUNDING INSTRUCTIONS" found on page 4.
4. As with any cooking appliance, **DO NOT** leave oven unattended while in use.
5. Install or locate this appliance only in accordance with the installation instructions found on page 4.
6. **DO NOT** cover or block any openings on this appliance.
7. **DO NOT** store this appliance outdoors. **DO NOT** use this product near water — for example, near a kitchen sink, in a wet basement, or near a swimming pool or similar locations.
8. Use this appliance only for its intended use as described in this manual. **DO NOT** use corrosive chemicals, vapors, or non-food products in this appliance. This type of oven is specifically designed to heat, or cook food. It is not designed for industrial or laboratory use. The use of corrosive chemicals in heating or cleaning will damage the appliance and may result in radiation leaks.
9. When cleaning surfaces of the door and oven that come together upon closing the door, use only mild, non-abrasive soaps or detergents applied with a sponge or soft cloth.
10. **DO NOT** allow children to use this appliance, unless closely supervised by an adult. **DO NOT** assume that because a child has mastered one cooking skill he/she can cook everything.
11. **DO NOT** operate this appliance if it has a damaged cord or plug, if it is not working properly, or if it has been damaged or dropped.
12. **DO NOT** immerse cord or plug in water.
13. Keep cord away from heated surfaces.
14. **DO NOT** let cord hang over edge of a table or counter.
15. This appliance should be serviced only by qualified service personnel. Contact the nearest authorized service center for examination, repair or adjustment.
16. Some products such as whole eggs with or without shell, narrow neck bottles and sealed containers—for example, closed glass jars—may explode and should not be heated in this oven.
17. To reduce the risk of fire in the oven cavity:
 - (a) **DO NOT** overcook food. Carefully attend appliance when paper, plastic, or other combustible materials are placed inside the oven to facilitate cooking.
 - (b) Remove wire twist-ties from paper or plastic bags before placing bag in oven.
 - (c) **If material inside the oven ignites, keep oven door closed, turn oven off, and disconnect the power cord, or shut off power at the fuse or circuit breaker panel.**
 - (d) **DO NOT** use the cavity for storage purposes. **DO NOT leave paper products, cooking utensils or food in the cavity when not in use.**
18. **Superheated Liquids**
 Liquids, such as water, coffee, or tea are able to be overheated beyond the boiling point without showing evidence (or signs) of boiling. Visible bubbling is not always present when the container is removed from the microwave oven. THIS COULD RESULT IN VERY HOT LIQUIDS SUDDENLY BOILING OVER WHEN THE CONTAINER IS DISTURBED OR A UTENSIL IS INSERTED INTO THE LIQUID.
 To reduce the risk of injury to persons:
 - (a) **STIR THE LIQUID BOTH BEFORE AND HALFWAY THROUGH HEATING IT.**
 - (b) **DO NOT heat water and oil, or fats together. The film of oil will trap steam, and may cause a violent eruption.**
 - (c) **DO NOT** use straight-sided containers with narrow necks.
 - (d) After heating, allow the container to stand in the microwave oven for a short time before removing the container.
19. **DO NOT** cook directly on the turntable. It can crack, cause injury or damage to the oven.



IMPORTANT SAFETY INSTRUCTIONS

(continued)

20. This appliance is suitable for use above both gas and electric cooking equipment 91.4 cm (36 inches) or less wide. To reduce the risk of fire and electric shock, install at least 34.6 cm (13⁵/₈ inches), above a cooktop, measured to the bottom of the oven.
21. Clean Ventilating Hoods Frequently – Grease should not be allowed to accumulate on hood or filter.
22. Use care when cleaning the Grease filter. Corrosive cleaning agents, such as lye-based oven cleaners, may damage the filter. Clean in hot detergent solution every month.
23. Never flame foods under the oven with the vent fan operating because it may spread the flames.

WARNING

TO AVOID THE RISK OF SHOCK:

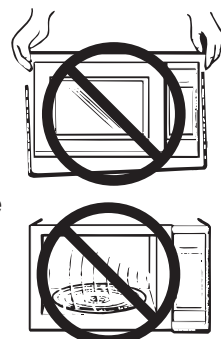
DO NOT remove top or outer panel from oven. Repairs must be done only by a qualified service person.

TO REDUCE THE RISK OF EXPOSURE TO MICROWAVE ENERGY:

DO NOT tamper with, or make any adjustments or repairs to Door, Control Panel Frame, Safety Interlock Switches, or any other part of oven, microwave leakage may result.

TO AVOID THE RISK OF FIRE:

1. **DO NOT** operate the oven empty. The microwave energy will reflect continuously throughout the oven causing overheating and damage, if food or water is not present to absorb energy.
2. **DO NOT** store flammable materials next to, on top of, or in the oven.
3. **DO NOT** dry clothes, newspapers or other materials in the oven, or use newspaper or paper bags for cooking.
4. **DO NOT** hit or strike Control Panel. Damage to controls may occur.
5. **DO NOT** use recycled paper products unless the paper product is labeled as safe for microwave oven use. Recycled paper products may contain impurities which may cause sparking.



TO AVOID THE RISK OF SCALDING:

POT HOLDERS should always be used when removing items from the oven. Heat is transferred from the HOT food to the cooking container and from the container to the Glass Tray. The Glass Tray can also be very HOT after removing the cooking container from the oven.

Glass Tray

1. **DO NOT** operate the oven without the Roller Ring and the Glass Tray in place.
2. **DO NOT** operate the oven without the Glass Tray fully engaged on the drive hub. Improper cooking or damage to the oven could result. Verify that the Glass Tray is properly engaged and rotating by observing its rotation when you press Start. **Note:** The Glass Tray can turn in either direction.
3. Use only the Glass Tray specifically designed for this oven. **DO NOT** substitute any other glass tray.
4. If the Glass Tray is hot, allow to cool before cleaning or placing in water.
5. **DO NOT** cook directly on the Glass Tray. Always place food in a microwave safe dish, or on a rack set in a microwave safe dish.
6. If food or utensil on the Glass Tray touches oven walls, causing the tray to stop moving, the tray will automatically rotate in the opposite direction.

Roller Ring

1. The Roller Ring and oven floor should be cleaned frequently to prevent excessive noise.
2. Always replace the Roller Ring and the Glass Tray in their proper positions.
3. The Roller Ring must always be used for cooking along with the Glass Tray.

SAVE THESE INSTRUCTIONS

For proper use of your oven, read remaining safety cautions and operating instructions.

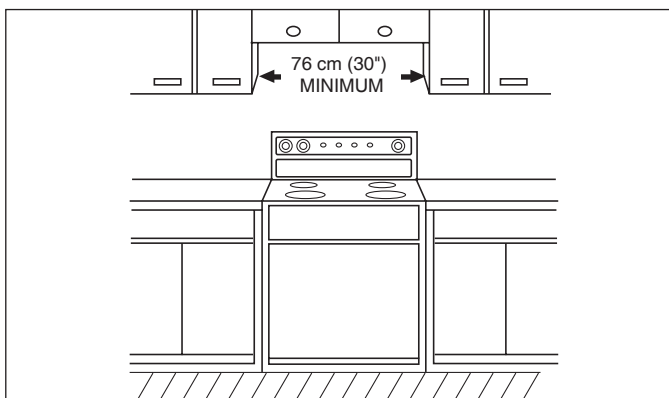
INSTALLATION AND GROUNDING INSTRUCTIONS

Examine Your Oven

Unpack oven, remove all packing material and examine the oven for any damage such as dents, broken door latches or cracks in the door. Notify dealer immediately if oven is damaged. **DO NOT** install if oven is damaged.

Installation

1. This oven must be installed in at least a 76 cm (30") inch opening, it is suitable for use above gas or electric cooking equipment 36 inches or less wide.
2. Be sure to install this oven only in accordance with the additional installation instructions provided.
3. It is recommended that the product be mounted to a flush wall of 5 x 10 cm (2" x 4") stud and 1cm ($\frac{3}{8}$ ") minimum thickness drywall or plaster/lath construction. For further information, please consult the additional installation instructions provided.
4. Make sure the kitchen cabinet height is as high as the specification described in the installation instructions.
5. This oven was manufactured for household use only.



WARNING

—IMPROPER USE OF THE GROUNDING PLUG CAN RESULT IN A RISK OF ELECTRIC SHOCK.

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

Grounding Instructions

THIS APPLIANCE MUST BE GROUNDED. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This appliance is equipped with a cord having a grounding wire with a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded.

- **Plug into properly installed and grounded 3 prong outlet.**
- **DO NOT remove ground prong.**
- **DO NOT use an adapter.**
- **DO NOT use an extension cord.**



INSTALLATION AND GROUNDING INSTRUCTIONS

(continued)

Wiring Requirements

1. The oven must be operated on a SEPARATE CIRCUIT. No other appliance should share the circuit with the microwave oven. If it does, the branch circuit fuse may blow or the circuit breaker may trip.
2. The oven must be plugged into a 15 AMP or 20 AMP, 120 VOLT, 60 Hz GROUNDED OUTLET. Where a standard two-prong outlet is encountered, it is the personal responsibility and obligation of the consumer to have it replaced with a properly grounded three-prong outlet.
3. The VOLTAGE used must be the same as specified on this microwave oven (120 V, 60 Hz). Using a higher voltage is dangerous and may result in a fire or oven damage. Using a lower voltage will cause slow cooking. Panasonic is NOT responsible for any damages resulting from the use of the oven with any voltage other than specified.

TV / Radio Interference

1. Operation of the microwave oven may cause interference to your radio, TV or similar equipment.
2. When there is interference, it may be reduced or eliminated by taking the following measures:
 - (a) Place the radio, TV, etc. away from the microwave oven as far as possible.
 - (b) Use a properly installed antenna to obtain stronger signal reception.
 - (c) Clean door and sealing surfaces of the oven. (See Care and Cleaning of Your Microwave Oven)

The Hood

1. **The vent fan in your oven will operate automatically under certain cooktop operating conditions. This is normal.** Caution is required to prevent the starting and spreading of accidental cooking fires while the vent fan is in operation.
2. Never leave surface units unattended at high heat setting. Boil over causes smoking and greasy spillovers that may ignite and spread if vent fan is operating. To minimize automatic fan operation, use adequate sized utensils and use high heat settings only when necessary.
3. In the event of a grease fire, smother flaming pan on surface unit by covering pan completely with well-fitting lid, cookie sheet or flat tray.
4. Keep hood and grease filters clean, according to instructions on page 28, to maintain adequate venting and avoid grease fires.
5. To protect the automatic fan feature, always keep the filter clean (see page 28). Should the fan require repair, do not operate microwave oven until it has been repaired.
6. Charcoal filter should be replaced periodically. It may be purchased from a local Panasonic dealer.

Indoor Venting

If the air exhaust must be recirculated by this unit inside the kitchen, a charcoal filter must be used. A charcoal filter has been installed for your convenience. However, we recommend that this filter be changed as soon as possible with the replacement charcoal filter kit (NN-CF203) that can be purchased from your local Panasonic dealer.

Fan Motor Operation

After using the oven repeatedly or for long time, the fan may operate to cool the electric components. This is perfectly normal, and you can take out the food from the oven while the fan operates.



Safety Precautions

Follow These Safety Precautions When Cooking in Your Oven.

IMPORTANT

Proper cooking depends upon the power, the time setting and quantity of food. If you use a smaller portion than recommended but cook at the time for the recommended portion, fire could result.

1) HOME CANNING / STERILIZING / DRYING FOODS / SMALL QUANTITIES OF FOODS

- **DO NOT** use your oven for home canning. Your oven cannot maintain the food at the proper canning temperature. The food may be contaminated and then spoil.
- **DO NOT** use the microwave oven to sterilize objects (baby bottles, etc.). It is difficult to keep the oven at the high temperature needed for sterilization.
- **DO NOT** dry meats, herbs, fruits or vegetables in your oven. Small quantities of food or foods with low moisture content can dry out, scorch or catch on fire if overheated.

2) POPCORN

Popcorn may be popped in a microwave oven corn popper. Microwave popcorn which pops in its own package is also available. Follow popcorn manufacturers' directions and use a brand suitable for the cooking power of your microwave oven.

CAUTION: When using pre-packaged microwave popcorn, you can follow recommended package instructions or use the popcorn button (refer to page 14). Otherwise, the popcorn may not pop adequately or may ignite and cause a fire. Never leave oven unattended when popping popcorn. Allow the popcorn bag to cool before opening, always open the bag facing away from your face and body to prevent steam burns.

3) DEEP FAT FRYING

- **DO NOT** deep fat fry in your microwave oven. Cooking oils may burst into flames and may cause damage to the oven and perhaps result in burns. Microwave utensils may not withstand the temperature of the hot oil, and can shatter or melt.

4) FOODS WITH NONPOROUS SKINS

- **DO NOT COOK/REHEAT WHOLE EGGS, WITH OR WITHOUT THE SHELL.** Steam buildup in whole eggs may cause them to explode, and possibly damage the oven or cause injury. Reheating SLICED hard-boiled eggs and cooking SCRAMBLED eggs is safe.
- **Potatoes, apples, whole squash and sausages** are examples of foods with nonporous skins. These types of foods must be pierced before microwave cooking to prevent them from exploding.

CAUTION: Cooking dry or old potatoes can cause fire.

5) GLASS TRAY / COOKING CONTAINERS / FOIL

- Cooking containers get hot during microwaving. Heat is transferred from the HOT food to the container and the Glass Tray. Use pot holders when removing containers from the oven or when removing lids or plastic wrap covers from cooking containers, to avoid burns.
- The Glass Tray will get hot during cooking. It should be allowed to cool before handling or before paper products, such as paper plates or microwave popcorn bags, are placed in the oven for microwave cooking.
- When using foil in the oven, allow at least 2.5 cm (1-inch) of space between foil and interior oven walls or door.
- Dishes with metallic trim should **not** be used, as arcing may occur.

6) PAPER TOWELS / CLOTHS

- **DO NOT** use paper towels or cloths which contain a synthetic fiber woven into them. The synthetic fiber may cause the towel to ignite. Use paper toweling under supervision.

7) BROWNING DISHES / OVEN COOKING BAGS

- Browning dishes or grills are designed for microwave cooking only. Always follow instructions provided by the manufacturer. **DO NOT** preheat browning dish for longer than 6 minutes.
- If an oven cooking bag is used for microwave cooking, prepare according to package directions. **DO NOT** use a wire twist-tie to close bag, instead use plastic ties, cotton string or a strip cut from the open end of the bag.

8) THERMOMETERS

- **DO NOT** use a conventional meat thermometer in your oven. Arcing may occur. Microwave safe thermometers are available for both meat and candy.

9) BABY FORMULA / BABY FOOD

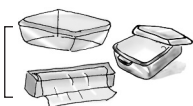
- **DO NOT** heat baby formula or baby food in the microwave oven. The glass jar or surface of the food may appear warm while the interior can be so hot as to burn the infant's mouth and esophagus.

10) REHEATING PASTRY PRODUCTS

- When reheating pastry products, check temperatures of any fillings before eating. Some foods have fillings which heat faster and can be extremely hot, while the surface remains warm to the touch (e.g. Jelly Donuts).

11) GENERAL OVEN USAGE GUIDELINES

- **DO NOT** use the oven for any purpose other than the preparation of food.



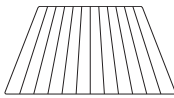
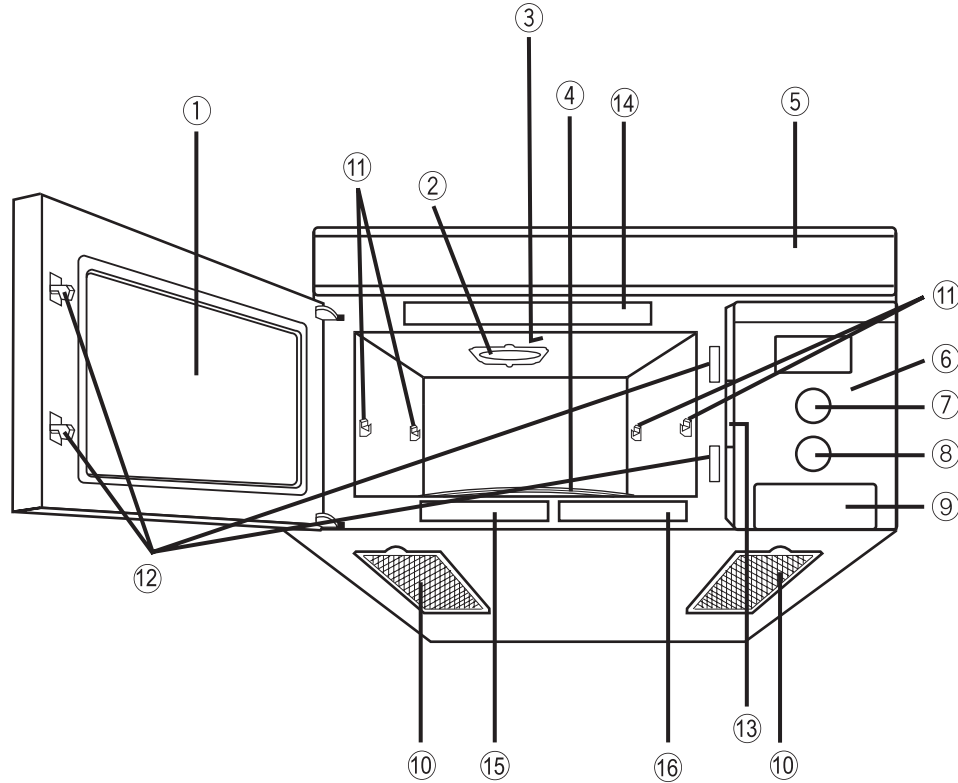
Cookware Guide

ITEM	MICROWAVE	COMMENTS
Aluminum Foil	Yes for Shielding only	Small strips of foil can be molded around thin parts of meat or poultry to prevent overcooking. Arcing can occur if foil is too close to oven wall or door and damage to your oven will result.
Browning Dish	Yes	Browning dishes are designed for microwave cooking only. Check browning dish information for instructions and heating chart. Do not preheat for more than 6 minutes.
Brown paper bags	No	May cause a fire in the oven.
Dinnerware: Labeled "Microwave Safe"	Yes	Check manufacturers' use and care directions for use in microwave heating. Some dinnerware may state on the back of the dish, "Oven-Microwave Safe".
Unlabeled Dinnerware	?	Use CONTAINER TEST below.
Disposable polyester Paperboard Dishes	Yes	Some frozen foods are packaged in these dishes. Can be purchased in grocery stores.
Fast Food Carton with Metal Handle	No	Metal handle may cause arcing.
Frozen Dinner Tray Metal	No	Metal can cause arcing and damage to your oven.
Frozen Dinner Tray Microwave safe	Yes	Heat only 1 tray in the oven at one time.
Glass Jars	No	Most glass jars are not heat resistant. Do not use for cooking or reheating.
Heat Resistant Oven Glassware & Ceramics	Yes	Ideal for microwave cooking and browning. (See CONTAINER TEST below)
Metal Bakeware	No	Not recommended for use in microwave ovens. Metal can cause arcing and damage to your oven.
Metal Twist-Ties	No	May cause arcing which could cause a fire in the oven.
Oven Cooking Bag	Yes	Follow manufacturers' directions. Close bag with the nylon tie provided, a strip cut from the end of the bag, or a piece of cotton string. Do not close with metal twist-tie. Make six 1 cm (1/2-inch) slits near the closure.
Paper Plates & Cups	Yes	Use to warm cooked foods, and to cook foods that require short cooking times such as hot dogs.
Paper Towels & Napkins	Yes	Use to warm rolls and sandwiches, only if labeled safe for microwave use.
Recycled Paper Towels & Napkins	No	Recycled paper products may contain impurities which may cause sparks.
Parchment Paper	Yes	Use as a cover to prevent spattering. Safe for use in microwave, microwave/convection and conventional ovens.
Plastic: Microwave Safe Cookware	Yes, use caution	Should be labeled, "Suitable for Microwave Heating." Check manufacturers' directions for recommended uses. Some microwave safe plastic containers are not suitable for cooking foods with high fat or sugar content. The heat from hot food may cause the plastic to warp.
Plastic, Melamine	No	This material absorbs microwave energy. Dishes get HOT!
Plastic Foam Cups	Yes, use caution	Plastic foam will melt if foods reach a high temperature. Use to reheat foods to a low serving temperature only.
Plastic Wrap	Yes	Use to cover food during cooking to retain moisture and prevent spattering. Should be labeled "Suitable for Microwave Heating". Check package directions.
Straw, Wicker, Wood	Yes, use caution	Use only for short term reheating and to bring food to a low serving temperature. Wood may dry out & split or crack when used.
Thermometers- Microwave safe	Yes	Use only microwave safe meat and candy thermometers.
Thermometers- Conventional	No	Not suitable for use in microwave oven, will cause sparks and get hot.
Wax paper	Yes	Use as a cover to prevent spattering and to retain moisture.

CONTAINER TEST

TO TEST A CONTAINER FOR SAFE MICROWAVE OVEN USE: Fill a microwave safe cup with cool water and place it in the microwave oven alongside the empty container to be tested; **heat one (1) minute at P10 (HIGH)**. If the container is microwave oven safe (transparent to microwave energy), the empty container should remain comfortably cool and the water should be hot. If the container is hot, it has absorbed some microwave energy and should NOT be used. This test cannot be used for plastic containers.

Oven Components Diagram

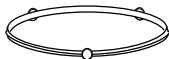


Shelf

Do not place SHELF permanently in the oven cavity. Use SHELF for 2-level cooking only. see page 21



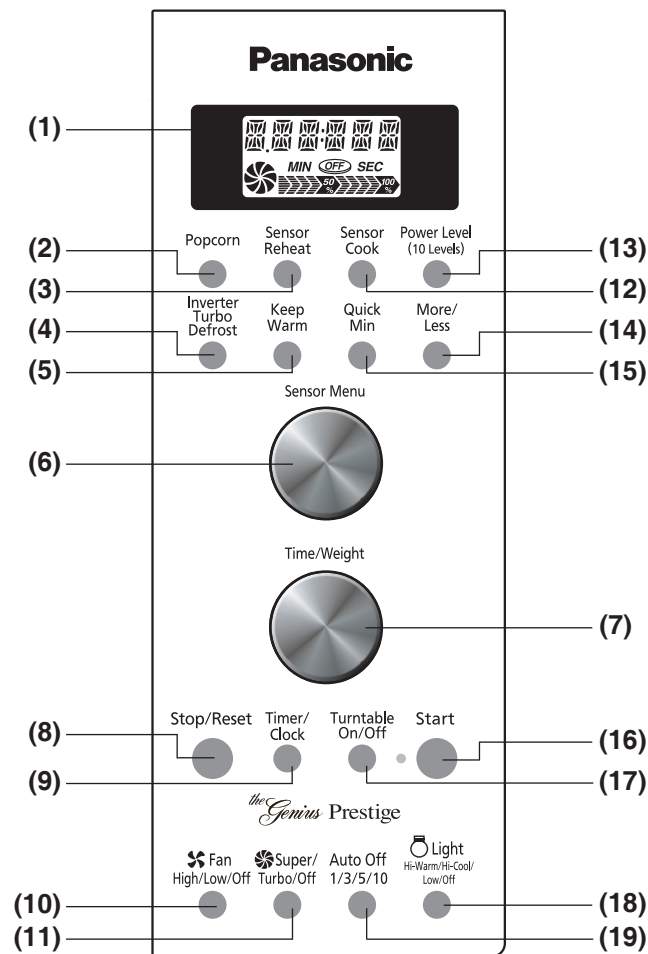
Glass Tray



Roller Ring

- ① **See-through Oven Window**
- ② **Waveguide Cover** (do not remove)
- ③ **Oven Light** (Oven Light can be replaced, see page 28)
- ④ **Glass Tray** (Turntable)
- ⑤ **Oven Air Vent** (Vent Grille is removable and can be cleaned, see page 27)
- ⑥ **Control Panel**
- ⑦ **Sensor Menu Dial**
- ⑧ **Time/Weight Dial**
- ⑨ **Door Release Button**
- ⑩ **Grease Filter** (Grease filter is removable and can be cleaned, see page 28)
- ⑪ **Shelf Supports**
- ⑫ **Door Safety Lock System**
- ⑬ **Identification Plate**
- ⑭ **Warning Label**
- ⑮ **Function Label**
- ⑯ **Menu Label**

Control Panel



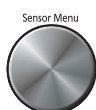
- (1) **Display Window:** The Display includes a clock and indicators to tell you time of day, cooking time settings and cooking functions selected.
- (2) **Popcorn Button:** Touch this button to pop a bag of packaged microwave popcorn. (☛ page 14)
- (3) **Sensor Reheat Button:** Touch this button to reheat food with only one touch. (☛ page 17)
- (4) **Inverter Turbo Defrost Button:** This feature allows you to defrost meat, poultry and seafood simply by entering the weight. (☛ page 15)
- (5) **Keep Warm Button:** Touch this button to keep foods warm for up to 30 minutes after cooking. (☛ page 13)
- (6) **Sensor Menu Dial:** Rotate the dial to select the Sensor Menus. (☛ page 17)
- (7) **Time/Weight Dial:** Rotate the dial to increase/decrease the cooking time/weight. (☛ page 10)
- (8) **Stop/Reset Button:** Touch this button to stop oven or clear all entries.
- (9) **Timer/Clock Button:** Touch this button to set the kitchen timer/enter the time of day.
- (10) **Fan High/Low/Off Button:** Touch this button to turn the fan on high, low, or off. (☛ page 12)
- (11) **Super/Turbo/Off Button:** Touch this button to turn the fan on super, turbo, or off. (☛ page 12)
- (12) **Sensor Cook Button** (☛ page 17)
- (13) **Power Level Button:** Touch this button to select a cooking power level. (☛ page 13)
- (14) **More/Less Button:** Touch this button to cook food for a longer or shorter time when using Popcorn, Sensor Reheat and Sensor Cooking buttons. (☛ page 14, 17)
- (15) **Quick Min Button:** Touch this button to set or add cooking time in 1 minute increments. (☛ page 13)
- (16) **Start Button:** Touch this button to start functioning. If you open the door after oven begins to cook, retouch START.
- (17) **Turntable On/Off Button:** Touch this button to turn the Turntable on or off. (☛ page 12)
- (18) **Light Hi-Warm/Hi-Cool/Low/Off Button:** Touch this button to turn on the cooktop light. (☛ page 12)
- (19) **Auto Off 1/3/5/10 Button:** Touch this button to set the fan time. (☛ page 12)

Notes:

1. If an operation is set and **Start** Button is not pressed, after 6 minutes, the oven will automatically cancel the operation. The display will revert back to clock or colon mode.
2. For saving energy, when the oven is in the following states, the display window backlight will go dark: 1. Plug in mode. 2. Clock or colon mode. 3. Child-lock. 4. Automatic fan is operating. 5. End of cooking.

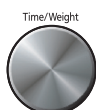


Dial Features



SENSOR MENU CHOICE

Dial can be rotated in either direction to select the Sensor Menus.



TIME CHOICE

Rotate the dial clockwise to increase the cooking time and rotate the dial counter-clockwise to decrease the cooking time.

WEIGHT CHOICE

Rotate the dial clockwise to increase the weight and rotate the dial counter-clockwise to decrease the weight setting.

NOTE:

The maximum of programmable time using Time Dial is up to 90 minutes.



Function Features

This unique function of your PANASONIC microwave oven allows you to establish the initial non-cooking features of your Oven.

This microwave oven has five functions:

1. LB/KG CHOICE: The oven has both imperial and metric weight measurements.
2. LANGUAGE CHOICE: The oven has a choice of English, French or Spanish display.
3. BEEP CHOICE: The oven has both Beep On and Beep Off mode.
4. MENU ACTION: Help you to program your oven by prompting the next step to be taken
5. DEMO MODE : Designed for retail store display.

  • Plug into a properly grounded electrical outlet.	
LB/KG CHOICE	Start • Press Start once. The oven automatically defaults to the imperial measure system (LB). Time/Weight • Rotate the dial to choose metric weight measurements (KG).
LANGUAGE CHOICE	Start • Press Start twice. The default display language is English. More/Less • Press More/Less once. The display language changes to French. • Press More/Less twice. The display language changes to Spanish.
BEEP CHOICE	Start • Press Start 3 times. The default mode is Beep On. Timer/Clock • Press Timer/Clock once. The mode changes to Beep Off.
MENU ACTION	• The default mode is Menu Action On. Timer/Clock • Press Timer/Clock Button 4 times. The mode changes to Menu Action Off.
DEMO MODE	• The default mode is Demo Mode Off. Power Level (10 Levels) Start Stop/Reset • Press Power Button once, Start Button 4 times and Stop/Reset Button 4 times. The mode changes to Demo Mode On.



Function Features

Set LB/KG, LANGUAGE and BEEP by following the steps below:

1.		• Plug into a properly grounded electrical outlet.
2.		• Press Start once.
3.		• Rotate the dial to choose metric weight measurements (KG).
4.		• Press Start once to set Language.
5.		• Press More/Less once. The display language changes to French. • Press More/Less twice. The display language changes to Spanish.
6.		• Press Start once to Beep Choice.
7.		• Press Timer/Clock once. The mode changes to Beep Off.



Child Safety Lock

This feature prevents the electronic operation of the oven until cancelled. It does not lock the door.

To Set: 	• Press Start 3 times. "LOCK" appears in the display window. ➤ "LOCK" continues to be displayed until Child Lock is cancelled. Key buttons may be pressed but the microwave will not start.	To Cancel: 	• Press Stop/Reset 3 times. ➤ The display will return to colon or time of day when Child Lock has been cancelled.
---	--	---	--

NOTE:

1. You can set Child Lock feature when the display shows a colon or time of day.
2. You cannot set Child Lock feature when setting Language Choice, LB/KG Choice or Beep Choice.



Setting the Clock

Example: To set 11:25 a.m. or p.m.

1. Timer/ Clock	- Press Time/Clock twice. ➤ Colon flashes.
2. Time Dial  Rotate	- Set time of day by using Time Select Dial. ➤ Time appears in the display window; colon continues flashing.
3. Timer/ Clock	- Press Timer/Clock once. ➤ Colon stops flashing; time of day is entered.

NOTES:

- To reset the clock, repeat steps 1-3.
- The clock will retain the time of day as long as the oven is plugged in and electricity is supplied.
- Clock is a 12 hour display.
- Oven will not operate while colon is flashing.



Setting Light Hi-Warm/Hi-Cool/Low/Off

 Light Hi-Warm/Hi-Cool/ Low/Off	This feature allows you to control the brightness of Cooktop Light. Press "Light Hi-Warm/Hi-Cool/Low/Off" button once for Hi-Warm light, twice for the Hi-Cool light, three times for Low light, and press again to turn the light off.
---	--



Setting Turntable On/Off

 Turntable On/Off	For best cooking results, leave the turntable on. It can be turned off for large dishes. Press "Turntable On/Off" button to turn the turntable on or off. When you turn it off,  will appear in the display window.
--	---

NOTE:

When "Turntable OFF" is selected, it will automatically return to "ON" again after the heating cycle is completed.

Do not operate the oven "Turntable Off" when cooking foods on Popcorn / Inverter Turbo Defrost / Sensor Reheat / Sensor Cook.

Sometimes the glass tray can become too hot to touch. Be careful when touching the glass tray during and after cooking.



Setting Super/Turbo/Off

 Super/ Turbo/Off	Use "Super/Turbo/Off" button for maximum fan speed. Press "Super/Turbo/Off" button once to turn on the Super Fan, twice to turn on the Turbo Fan and press again to turn it off. When you turn it on,  will appear in the display window.
--	---



Setting Fan High/Low/Off

 Fan High/Low/Off	The Fan (Vent Fan) removes steam and other vapors from the cooking surface below the microwave oven. Press "Fan High/Low/Off" button once for High fan speed, twice for Low fan speed, and press again to turn the fan off. When you turn it on,  will appear in the display window. Note: The "Turbo" fan speed will run for a few seconds even though the "High/Low" fan setting is selected. This is absolutely normal.
---	--

NOTE: Automatic Fan

If the microwave oven is used for a long time or if cooking equipment under the microwave oven is used simultaneously, the temperature may get too hot around the microwave oven and the vent hood fan will automatically turn on at the Turbo setting to cool the oven. When this occurs the display window shows "VENTILATING", and **the fan cannot be manually turned off**. If subsequently another key is pressed and "HOT" appears in the display window, the **microwave oven will not operate**, and you must wait until the microwave is cool and "HOT" disappears from the display to re-program. The fan will automatically turn off when the internal components are cool. It may continue cooling for 30 minutes or longer.

When "COOLING" appears in the display window

After either using the microwave oven for a long time or using the cooking equipment under the microwave, "COOLING" may appear in the display window, and the cooling fan will run until components inside are cool. The microwave oven will continue to operate normally.

Setting Auto Off 1/3/5/10

 Auto Off 1/3/5/10	After you have selected Fan High/Low or Super Fan/Turbo Fan On, you can set the desired time that automatically turns off the Fan or Super/Turbo Fan. Press "Auto Off 1/3/5/10" button to set fan time. The following is the set times for the number of taps to the key:
--	--

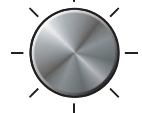
one tap	1 min
two taps	3 min
three taps	5 min
four taps	10 min
five taps	

NOTE: If Auto Off is touched after Auto Off time had been set, you must reset the time.



Selecting Power & Cook Time

Example: To cook at P 6 (MEDIUM) power for 1 minute 30 seconds

1. Power Level (10 Levels) Press 5 times.	Press Power Level until the desired power level appears in the display window.
2. Time Dial  Rotate	Set cooking time by using Time Select Dial to 1 minute and 30 seconds.
3.  Start	Press Start. ➤Cooking will start. The time in the display window will count down.

Press	Power Level
once	P10 (HIGH)
twice	P9
3 times	P8
4 times	P7 (MED-HIGH)
5 times	P6 (MED)
6 times	P5
7 times	P4
8 times	P3 (MED-LOW)/DEFROST
9 times	P2
10 times	P1 (LOW)

NOTES:

- For more than one stage cooking, repeat steps 1 and 2 for each stage of cooking before pressing **Start** Button. The maximum number of stages for cooking is 3. When operating, two beeps will sound between each stage. Five beeps will sound at the end of the entire sequence.
- When selecting P10 (HIGH) power for the first stage, you may begin at step 2.
- When selecting P10 (HIGH) power, the maximum programmable time is 30 minutes. For other power levels, the maximum time is 90 minutes.
- For reheating: use P10 (HIGH) for liquids, P7 (MED-HIGH) for most foods and P6 (MEDIUM) for dense foods.
- For defrosting, use P3 (MED-LOW).

DO NOT OVER COOK. This oven requires less time to cook than an older unit. Over cooking will cause food to dry out and may cause a fire. A microwave oven's cooking power tells you the amount of microwave power available for cooking.



Quick Min Feature

This feature allows you to set or add cooking time in 1 minute increments up to 10 minutes.

To Set Cooking Time:

1.  Quick Min	Press Quick Min until the desired cooking time (up to 10 minutes) appears in the display window. Power Level is pre-set at P10.
2.  Start	Press Start. Cooking begins and the time will count down. At the end of cooking, 5 beeps sound.

NOTES:

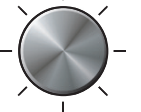
- If desired, you can use other power levels. Select desired power level before setting cooking time.
- After setting the time by using the **Quick Min** Button, you cannot use Time Dial.
- Quick Min** Button can be used to add more time during manual cooking. Check the Display Window to verify the additional cooking time.



Keep Warm Feature

This feature will keep food warm for up to 30 minutes after cooking.

Example: To keep 2 cups of gravy warm

1.  Keep Warm	Press Keep Warm.
2. Time Dial  Rotate	Set warming time, up to 30 minutes.
3.  Start	Press Start. ➤Keep Warm will start. The time in the display window will count down.

NOTES:

Keep Warm cannot be used in combination with sensor or auto features.



Popcorn Feature

This sensor feature allows you to pop popcorn without setting weight and time. The oven simplifies programming.

1. 	• Press Popcorn .
2.  Optional	• (see More/Less Feature.)
3.  Start	• Press Start . ➤ Cooking starts.

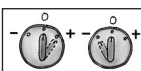
Cooking is complete when 5 beeps sound. (When steam is detected by the Genius Sensor and 2 beeps sound, the remaining cooking time will appear in the display window.)

NOTES ON POPCORN FEATURE:

1. Pop one bag at a time.
2. Place bag in oven according to manufacturers' directions.
3. Start with popcorn at room temperature.
4. Allow popped corn to sit unopened for a few minutes.
5. Open bag carefully to prevent burns, because steam will escape.
6. Do not reheat unpopped kernels or reuse bag.

REMARKS:

When popping multiple bags one right after the other, the cooking times may vary slightly. This does not affect the popcorn results.



More/Less Feature

For Popcorn:

By using the **More/Less** Button, the programs can be adjusted to cook popcorn for a longer or shorter time if desired.

- 1 tap = More (Adds Approx. 3% time)
- 2 taps = More (Adds Approx. 6% time)
- 3 taps = Less (Subtracts Approx. 3% time)
- 4 taps = Less (Subtracts Approx. 6% time)
- 5 taps = Original setting

Press **More/Less** button before pressing **Start**.

For Sensor Reheat/Cook:

Preferences for food doneness vary with each individual. After having used the **Sensor Reheat/Cook** feature a few times, you may decide you would prefer your food cooked to a different doneness.

- 1 tap = More (Adds Approx. 10% time)
- 2 taps = Less (Subtracts Approx. 10% time)
- 3 taps = Original setting

Press **More/Less** button before pressing **Start**.

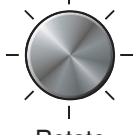


Inverter Turbo Defrost Feature

This feature allows you to automatically defrost foods such as: meat, poultry and seafood simply by entering the weight.

Example: To defrost 1.5 pounds of meat

Place food on microwave safe dish.

1. Inverter Turbo Defrost	• Press Inverter Turbo Defrost .
2. Weight Dial  Rotate	• Set weight of the food, using the Weight Select Dial to 1.5 pounds.
3. 	• Press Start . Defrosting will start. The time will count down. Larger weight foods will cause a signal midway through defrosting. If 2 beeps sound, turn over, rearrange foods or shield with aluminum foil.

Conversion Chart:

Follow the chart to convert ounces or hundredths of a pound into tenths of a pound. To use Inverter Turbo Defrost, enter the weight of the food in lbs. (1.0) and tenths of a lb. (0.1). If a piece of meat weighs 1.95 lbs. or 1 lb. 14 oz., enter 1.9 lbs.

Ounces	Hundredths of a Pound	Tenths of a Pound
0	.01 - .05	0.0
1 - 2	.06 - .15	0.1
3 - 4	.16 - .25	0.2
5	.26 - .35	0.3
6 - 7	.36 - .45	0.4
8	.46 - .55	0.5
9 - 10	.56 - .65	0.6
11 - 12	.66 - .75	0.7
13	.76 - .85	0.8
14 - 15	.86 - .95	0.9

NOTE:

The maximum weight for Inverter Turbo Defrost is 3 kg (6 lb).



Defrosting Tips & Techniques

Preparation For Freezing:

1. Freeze meats, poultry, and fish in packages with only 1 or 2 layers of food. Place wax paper between layers.
2. Package in heavy-duty plastic wraps, bags (labeled "For Freezer"), or freezer paper.
3. Remove as much air as possible.
4. Seal securely, date, and label.

To Defrost:

1. Remove wrapper. This helps moisture to evaporate. Juices from food can get hot and cook the food.
2. Set food in microwave safe dish.
3. Place roasts fat-side down. Place whole poultry breast-side down.
4. Select power and minimum time so that items will be under-defrosted.
5. Drain liquids during defrosting.
6. Turn over (invert) items during defrosting.
7. Shield edges and ends if needed. (See Cooking Techniques).

After Defrosting:

1. Large items may be icy in the center. Defrosting will complete during **STANDING TIME**.
2. Let stand, covered, following stand time directions on page 16.
3. Rinse foods indicated in the chart.
4. Items which have been layered should be rinsed separately or have a longer stand time.



Defrosting Tips & Techniques

(continued)

FOOD	MANUAL DEFROST TIME at P3 (min/kg)(min/lb)		DURING DEFROSTING	AFTER DEFROSTING	
				Stand Time	Rinse
Fish and Seafood [up to 1.4 kg (3 lbs.)]				5 min.	YES
Crabmeat	13	6	Break apart/Rearrange		
Fish Steaks	8 to 12	4 to 6	Turn over		
Fish Fillets	8 to 12	4 to 6	Turn over/Rearrange/Shield ends		
Sea Scallops	8 to 12	4 to 6	Break apart/Remove defrosted pieces		
Whole fish	8 to 12	4 to 6	Turn over		
Meat	8 to 10	4 to 5	Turn over/Remove defrosted portion/Shield edges	10 min.	NO
Ground Meat					
Roasts [1.1-1.8 kg (2½-4 lbs.)]	8 to 16	4 to 8	Turn over/Shield ends and defrosted surface	30 min. in refrig.	
Chops/Steak	12 to 16	6 to 8	Turn over/Rearrange/Shield ends and defrosted surface	5 min.	
Ribs/T-bone	12 to 16	6 to 8	Turn over/Rearrange/Shield ends and defrosted surface		
Stew Meat	8 to 16	4 to 8	Break apart/Rearrange/Remove defrosted pieces		
Liver (thinly sliced)	8 to 12	4 to 6	Drain liquid/Turn over/Separate pieces		
Bacon (sliced)	8	4	Turn over	----	
Poultry					
Chicken, Whole [up to 1.4 kg (3 lbs.)]	8 to 12	4 to 6	Turn over/Shield	20 min. in refrig.	YES
Cutlets	8 to 12	4 to 6	Break apart/Turn over/Remove defrosted Pieces	5 min.	
Pieces	8 to 12	4 to 6	Break apart/Turn over/Shield	10 min.	
Cornish Hens	12 to 16	6 to 8	Turn over/Shield		
Turkey Breast [2.3-2.7 kg (5-6 lbs.)]	12	6	Turn over/Shield	20 min. in refrig.	

Automatic features are provided for your convenience. If results are not suitable to your individual preference or if serving size is other than what is listed on page 18, please refer to page 13 for manual cooking.



Sensor Reheat Feature

This sensor feature allows you to reheat food without setting time. The oven simplifies programming.

Example: To reheat a plate of food

1.  Sensor Reheat	• Press Sensor Reheat .
2.  More/Less Optional	• (see More/Less Feature) (☛ page 14)
3.  Start	• Press Start . ➤ Cooking starts.
Cooking is complete when 5 beeps sound. (When steam is detected by the Genius Sensor and 2 beeps sound, the remaining cooking time will appear in the display window.)	

NOTE:

Casseroles - Add 3 to 4 tablespoons of liquid, cover with lid or vented plastic wrap. Stir when time appears in the display window.

Canned foods - Empty contents into casserole dish or serving bowl, cover dish with lid or vented plastic wrap. After reheating, let stand for a few minutes.

Plate of food - Arrange food on plate; top with butter, gravy, etc. Cover with lid or vented plastic wrap. After reheating, let stand for a few minutes.

DO NOT USE SENSOR REHEAT:

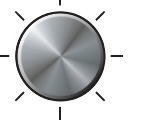
1. To reheat bread, meat pie and pastry products. Use manual power and time for these foods.
2. For raw or uncooked foods.
3. If oven cavity is warm.
4. For beverages.
5. For frozen foods.



Sensor Cook Feature

This sensor feature allows you to cook food without setting time. The oven simplifies programming.

Example: To cook a 300 g (10 oz.) Frozen Entrée

1.  Sensor Cook	• Press Sensor Cook .
2.  Sensor Menu Dial Rotate	• Select the desired category number using the Sensor Menu Select Dial.
3.  More/Less Optional	• (see More/Less Feature) (☛ page 14)
4.  Start	• Press Start . ➤ Cooking starts.
Cooking is complete when 5 beeps sound. (When steam is detected by the Genius Sensor and 2 beeps sound, the remaining cooking time will appear in the display window.)	

For the best results with the *GENIUS SENSOR*, follow these recommendations.

BEFORE Reheating/Cooking:

1. The room temperature surrounding the oven should be below 35° C (95° F).
2. Food weight should exceed 110 g (4 oz.).
3. Be sure the glass tray, the outside of the cooking containers and the inside of the microwave oven are dry before placing food in the oven. Residual beads of moisture turning into steam can mislead the sensor.
4. Cover food with lid, or with vented plastic wrap. Never use tightly sealed plastic containers—they can prevent steam from escaping and cause food to overcook.

DURING Reheating/Cooking:

DO NOT open the oven door until the end of cooking or 2 beeps sound. Doing so will cause inaccurate cooking since the steam from food is no longer contained within the oven cavity. If 2 beeps sounds, the remaining cooking time will begin to count down. The oven door may be opened to stir, turn, or rearrange foods.

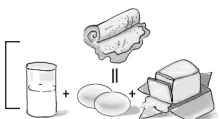
AFTER Reheating/Cooking:

All foods should have a stand time.



Sensor Cook Chart

Recipe	Serving/Weight	Hints
1. Potatoes	1 - 4 potatoes (170 - 225 g) (6 - 8 oz. each)	Pierce each potato with a fork 6 times spacing around surface. Place potato or potatoes around the edge of paper-towel-lined glass tray (Turntable), at least 2.5 cm (1-inch) apart. Do not cover. Let stand 5 minutes to complete cooking.
2. Fresh Vegetables	110 - 450 g (4 - 16 oz.)	All pieces should be the same size. Wash thoroughly, add 1 tbsp of water per $\frac{1}{2}$ cup of vegetables, and cover with lid or vented plastic wrap. Do not salt/butter until after cooking.
3. Frozen Vegetables	170 - 450 g (6 - 16 oz.)	Wash thoroughly, add 1 tbsp of water per $\frac{1}{2}$ cup of vegetables, and cover with lid or vented plastic wrap. Do not salt/butter until after cooking. (Not suitable for vegetables in butter or sauce.) After 2 beeps, stir or rearrange.
4. Canned Vegetables	430 g (15 oz.)	Empty contents into microwave safe serving bowl. Do not cover.
5. Frozen Pizza (single)	225 g (8 oz.)	Follow manufacturers' directions for preparation.
6. Frozen Pocket Sandwich	1 sandwich (128 g) (4.5 oz.)	Follow manufacturers' directions for preparation.
7. Frozen Entrées	225 - 900 g (8 - 32 oz.)	Follow manufacturers' directions for preparation. After 2 beeps, stir or rearrange. Be careful when removing the film cover after cooking. Remove facing away from you to avoid steam burns. If additional time is needed, continue to cook manually.
8. Frozen Dinners	300 - 450 g (11 - 16 oz.)	Follow manufacturers' directions for covering or removing covers. Do not use frozen foods packaged in foil trays.
9. Oatmeal	40 - 80 g (0.5 - 1 cup)	Place inside a microwave safe serving bowl with no cover. Follow manufacturers' directions for preparation.
10. Soup	1 - 2 cups (250 - 500 ml)	Pour soup into a microwave safe serving bowl. Cover with lid or vented plastic wrap. Stir after cooking.
11. Rice	0.5 - 1.5 cups (110 - 335 g)	Place rice with hot tap water in a microwave safe casserole dish. Cover with lid or vented plastic wrap. Let stand 5 to 10 minutes before serving.
12. Pasta	56 - 225 g (2 - 8 oz.)	Place pasta with hot tap water in a microwave safe casserole dish. Cover with lid or vented plastic wrap.
13. Breakfast Sausage	2 - 8 links	Follow manufacturers' directions for preparation of pre-cooked breakfast sausage. Place in a radial pattern.
14. Ground Meat	450 - 900 g (16 - 32 oz.)	Break apart in glass bowl or colander. Cover with lid or vented plastic wrap. After 2 beeps, stir. Re-cover and press Start . Juices should be clear. Drain.
15. Fish Fillets	110 - 450 g (4 - 16 oz.)	Arrange in a single layer. Cover with lid or vented plastic wrap.



Microwave Recipes

OMELET

Basic Omelet

- 1 tablespoon butter or margarine
- 2 eggs
- 2 tablespoons milk
- salt and ground black pepper, if desired

Heat butter in a microwave safe 22.5 cm (9-inch) pie plate, 30 seconds at P10, or until melted. Turn the plate to coat the bottom with butter. Meanwhile, combine the remaining ingredients in a separate bowl, beat together and pour into the pie plate. Cover with vented plastic wrap, and cook at P6 power for 3-4 minutes. Let stand 2 minutes. With a spatula, loosen the edges of the omelet from the plate, fold into thirds to serve. **Always use scrambled eggs.**

Yield: 1 serving

NOTE: Double ingredients for a 4 egg Omelet. (Cook at P6 power for 5 minutes.)

CASSEROLE

Shepherd's Pie

- 450g (1 pound) lean ground beef
- 1/2 cup frozen peas, thawed
- 1/4 cup chopped onion
- 1 tablespoon gravy powder
- 1/2 teaspoon curry powder
- 1/4 teaspoon salt
- 1/4 teaspoon ground black pepper
- 2 cups mashed potatoes

In a 2-Qt. casserole dish, crumble the ground beef and cook for 8-10 minutes at P6 or until the meat is cooked, stirring twice. Add the remaining ingredients, except for potatoes. Stir well, and then spread the potatoes evenly on the top. Cover with a lid or vented plastic wrap and cook at P6 power for 19-21 minutes.

Yield: 4 servings

Macaroni and Cheese

- 1/4 cup butter
- 2 tablespoons chopped onion
- 1 clove minced garlic
- 1/4 cup all-purpose flour
- 1 teaspoon dry mustard
- 1 teaspoon salt
- 1/4 teaspoon ground black pepper
- 2 cups milk
- 2 cups grated cheddar cheese
- 250g (8 oz.) (dry weight) macaroni, cooked and drained
- 1/3 cup bread crumbs
- 1 teaspoon paprika

In a 2-Qt. casserole dish, melt the butter for 40 seconds at P10. Add onion and garlic and cook for 1 minute at P10. Stir in flour, mustard, salt and pepper, and gradually add the milk. Cook for 3-4 minutes at P10 until sauce thickens, stirring once. Add the cheddar cheese, stirring thoroughly. Pour and stir the sauce into the macaroni, in a 3-Qt. casserole. Top with bread crumbs and paprika. Cover with lid or vented plastic wrap. Cook at P6 power for 19-21 minutes.

Yield: 6 servings

Beef and Macaroni Casserole

- 450g (1 pound) lean ground beef
- 1 small onion, chopped
- 1/2 green bell pepper, chopped
- 1 cup chopped celery
- 2 430 g (15 oz.) cans tomato sauce
- 1 1/4 cups water
- 1 cup uncooked elbow macaroni
- 1 teaspoon parsley
- 1/2 teaspoon salt
- 1/4 teaspoon ground black pepper
- 1/2 cup grated cheddar cheese

Crumble the ground beef in a 3-Qt. casserole. Cook for 5-7 minutes at P6 or until the meat is cooked, stirring twice. Stir in onion, peppers and celery. Cook for 3-4 minutes at P10. Stir in the remaining ingredients, except cheese. Cover with lid or vented plastic wrap. Cook at P6 power for 19-21 minutes. Sprinkle with cheese. Cover and let stand 5 minutes.

Yield: 4-6 servings

Tuna Casserole

- 1 170 g (6 oz.) can tuna, drained and flaked
- 4 cups cooked and drained noodles
- 1 300 g (10 3/4 oz.) can condensed cream of mushroom soup
- 1 110 g (4 oz.) can mushroom pieces and stems, drained
- 1 450 g (16 oz.) package frozen peas, defrosted
- 3/4 cup milk
- 1 cup crushed potato chips
- 1/2 cup grated cheddar cheese

In a 3-Qt. casserole, combine tuna, noodles, soup, mushrooms, peas and milk; mix well. Cover with lid or vented plastic wrap. Cook at P6 power for 19-21 minutes. Top with potato chips and cheese before serving.

Yield: 4-6 servings



Timer Feature

This feature allows you to program the oven as a kitchen timer. It can also be used to program a standing time after cooking is completed and/or to program a delay start.

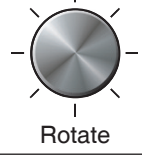
To Use as a Kitchen Timer:

Example: To count down 5 minutes.

1. 	• Press Timer/Clock once.
2.  Rotate	• Set time, using Time Select Dial to 5 minutes.
3. 	• Press Start . ➤ Time will count down without oven operating.

To Set Stand Time:

Example: To cook at P6 power for 3 minutes, with stand time of 5 minutes.

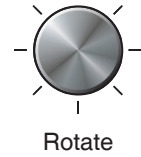
1.  Press 5 times	• Enter the desired Power Level (see page 13 for directions).
2.  Rotate	• Set cooking time, using Time Select Dial to 3 minutes.
3. 	• Press Timer/Clock once.
4.  Rotate to 5 minutes.	• Set stand time, using Time Select Dial.
5. 	• Press Start . ➤ Cooking will start. After cooking, stand time will count down without oven operating.

CAUTION:

If oven lamp is lit while using the timer feature, the oven is incorrectly programmed. Stop oven immediately and re-read instructions.

To Set Delay Start:

Example: To delay the start of cooking for 5 minutes, and cook at P6 power for 3 minutes.

1. 	• Press Timer/Clock once.
2.  Rotate	• Set delay time, using Time Select Dial to 5 minutes.
3.  Press 5 times	• Enter the desired Power Level (see page 13 for directions).
4.  Rotate to 3 minutes.	• Set cooking time, using Time Select Dial.
5. 	• Press Start . ➤ Delay time will count down. Then cooking will start.

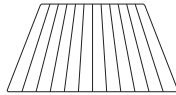
NOTE:

1. When each stage finishes, a two-beep signal sounds. At the end of the program, the oven will beep five times.
2. If the oven door is opened during Stand Time, Kitchen Timer or Delay Time, the time on the display will continue to count down.
3. Stand time and Delay start cannot be programmed before any automatic Function. This is to prevent the starting temperature of food from rising before defrosting or cooking begins. A change in starting temperature could cause inaccurate results.
4. The maximum programmable time of Standing Time, Kitchen Time or Delay Time is up to 90 minutes.

Operation

How to Use the Shelf When Microwaving

1. The shelf must be positioned on Shelf Supports securely to prevent damage to the oven from arcing.
2. **DO NOT** use a microwave browning dish on the shelf. The shelf and dish could overheat.
3. **DO NOT** use the oven with the shelf on the microwave floor. This could damage the microwave.
4. Use pot holders when handling the shelf—it may be hot.



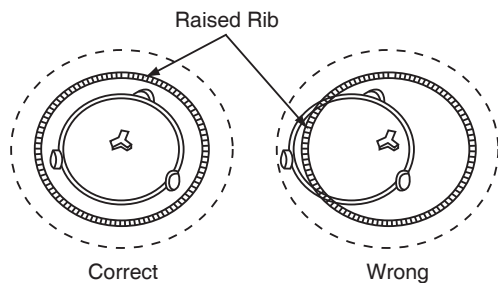
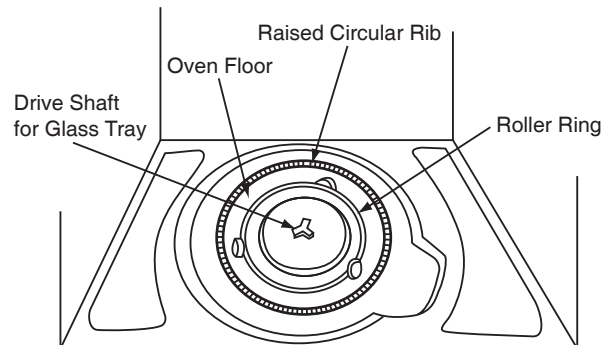
Caution:

Do not heat liquids on shelf, use the turntable for heating liquids.

Also be careful when removing hot items from the shelf or turntable.

Placement of the Roller Ring

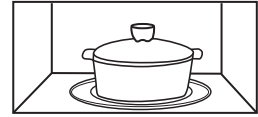
Before using the microwave oven, be sure the Roller Ring is properly installed. Incorrect installation can result in improper cooking, damage to the oven or spillage of food. The Roller Ring must be located on the surface between the raised rib and raised floor.



For best cooking results

1-Level cooking

Food microwaves best when placed onto the turntable, with turntable on (rotating).

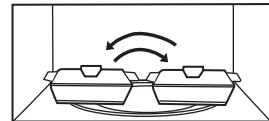


(Turntable On)
For best results

When a large dish or more than one dish is used for cooking, the turntable can be turned off. For best results, rotate large dish and interchange multiple dishes, halfway through cooking cycle.

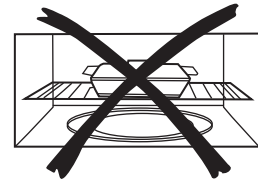


(Turntable Off)
Rotate dish
halfway through cooking



(Turntable Off)
Interchange dishes
halfway through cooking

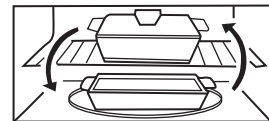
For best cooking results, remove the shelf unless you are reheating on more than one level.



Uneven results

2-Level cooking

1. Multiply reheat time by 1½.
2. Interchange dishes halfway through cooking.



Interchange dishes
halfway through cooking

DO NOT use the shelf or operate Turntable Off when cooking foods on Popcorn / Inverter Turbo Defrost / Keep Warm / Sensor Reheat / Sensor Cook.



Microwave Shortcuts

FOOD	POWER	TIME (in mins.)	DIRECTIONS
To separate refrigerated Bacon , 450 g (1 pound)	P10 (HIGH)	30 sec.	Remove wrapper and place in microwave safe dish. After heating, use a plastic spatula to separate slices.
To soften Brown Sugar 1 cup (250 ml)	P10 (HIGH)	20 - 30 sec.	Place brown sugar in microwave safe dish with a slice of bread. Cover with lid or plastic wrap.
To soften refrigerated Butter , 1 stick, 110 g (1/4 pound)	P3 (MED-LOW)	1	Remove wrapper and place butter in a microwave safe dish.
To melt refrigerated Butter , 1 stick, 110 g (1/4 pound)	P6 (MEDIUM)	1 1/2 - 2	Remove wrapper and place butter in a microwave safe dish covered with lid or vented plastic wrap.
To melt Chocolate , 1 square, 28 g (1 oz.)	P6 (MEDIUM)	1 - 1 1/2	Remove wrapper and place chocolate in a microwave safe dish. After heating, stir until completely melted.
To melt Chocolate , 1/2 cup (125 ml) chips	P6 (MEDIUM)	1 - 1 1/2	<i>Note: Chocolate holds its shape even when softened.</i>
To toast Coconut , 1/2 cup (125 ml)	P10 (HIGH)	1	Place in a microwave safe dish. Stir every 30 seconds.
To soften Cream Cheese , 225 g (8 oz.)	P3 (MED-LOW)	1 - 2	Remove wrapper and place in a microwave safe bowl.
To brown Ground Beef , 450 g (1 pound)	P10 (HIGH)	4 - 5	Crumble into a microwave safe colander set into another dish. Cover with plastic wrap. Stir twice. Drain grease.
To cook Vegetables , Fresh (225 g) (1/2 lb)	P8	3 1/2 - 4	All pieces should be the same size. Wash thoroughly, add 1 tbsp of water per 1/2 cup of vegetables, and cover with lid or vented plastic wrap. Do not salt/butter until after cooking.
Frozen (285 g) (10 oz.)	P8	4 1/2 - 5	Wash thoroughly, add 1 tbsp of water per 1/2 cup of vegetables, and cover with lid or vented plastic wrap. Do not salt/butter until after cooking. (Not suitable for vegetables in butter or sauce.)
Canned (430 g) (15 oz.)	P8	3 1/2 - 4	Empty contents into microwave safe serving bowl. Do not cover.



Microwave Shortcuts

(continued)

FOOD	POWER	TIME (in mins.)	DIRECTIONS
To cook baked Potato , 170 - 225 g (6 - 8 oz.) each 1 potato 2 potatoes	P8 P8	4½ - 5 8 - 9	Pierce each potato with a fork 6 times spacing around surface. Place potato or potatoes around the edge of paper-towel-lined glass tray (Turntable), at least 2.5 cm (1-inch) apart. Do not cover. Let stand 5 minutes to complete cooking.
To steam Hand Towels - 4	P10 (HIGH)	20 - 30 sec.	Soak in water, then wring out excess. Place on a microwave safe dish. Heat. Present immediately.
To soften Ice Cream , 2 qt. (½ gallon)	P3 (MED-LOW)	1 - 1½	Check often to prevent melting.
Cup of liquid To boil water, broth, etc. 1 cup, 250 ml (8 oz.) 2 cups, 500 ml (16 oz.)	P10 (HIGH)	2½ - 3 4	Heated liquids can erupt if not stirred. Do not heat liquids in microwave oven without stirring before heating.
Cup of liquid To warm Beverage , 1 cup, 250 ml (8 oz.) 2 cups, 500 ml (16 oz.)	P7 (MED-HIGH)	2 - 3 4 - 5	
To roast Nuts , 1½ cups (375 ml)	P10 (HIGH)	4 - 5	Spread nuts into a 23 cm (9-inch) microwave safe pie plate. Stir occasionally.
To toast Sesame Seeds , ¼ cup (60 ml)	P10 (HIGH)	3 - 5	Place in a small microwave safe bowl. Stir twice.
To skin Tomatoes , (one at a time)	P10 (HIGH)	30 sec.	Place tomato into a microwave safe bowl containing boiling water. Rinse and peel. Repeat for each tomato.
To remove Cooking Odours ,	P10 (HIGH)	5	Combine 1 to 1½ cups (250 - 375 ml) water with the juice and peel of one lemon in a 2 quart microwave safe bowl. After water finishes boiling, wipe interior of oven with a cloth.

Food Characteristics

Bone and Fat

Both bone and fat affect cooking. Bones may cause irregular cooking. Meat next to the tips of bones may overcook while meat positioned under a large bone, such as a ham bone, may be undercooked. Large amounts of fat absorb microwave energy and the meat next to these areas may overcook.



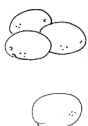
Density

Porous, airy foods such as breads, cakes or rolls take less time to cook than heavy, dense foods such as potatoes and roasts. When reheating donuts or other foods with different centres be very careful. Certain foods have centres made with sugar, water, or fat and these centres attract microwaves (For example, jelly donuts). When a jelly donut is heated, the jelly can become extremely hot while the exterior remains warm to the touch. This could result in a burn if the food is not allowed to cool properly in the centre.



Quantity

Two potatoes take longer to cook than one potato. As the quantity of the food decreases so does the cooking time. Overcooking will cause the moisture content in the food to decrease and a fire could result. Never leave microwave unattended while in use.



Shape

Uniform sizes heat more evenly. The thin end of a drumstick will cook more quickly than the meaty end. To compensate for irregular shapes, place thin parts toward the centre of the dish and thick pieces toward the edge.



Size

Thin pieces cook more quickly than thick pieces.



Starting Temperature

Foods that are at room temperature take less time to cook than if they are chilled, refrigerated, or frozen.



Cooking Techniques

Piercing

Foods with skins or membranes must be pierced, scored or have a strip of skin peeled before cooking to allow steam to escape. Pierce clams, oysters, chicken livers, whole potatoes and whole vegetables. Whole apples or new potatoes should have a 1-inch strip of skin peeled before cooking. Score sausages and frankfurters. Do not Cook/Reheat whole eggs with or without the shell. Steam build up in whole eggs may cause them to explode, and possibly damage the oven or cause injury. Reheating SLICED hard-boiled eggs and cooking SCRAM-BLED eggs is safe.



Browning

Foods will not have the same brown appearance as conventionally cooked foods or those foods which are cooked utilizing a browning feature. Meats and poultry may be coated with browning sauce, Worcestershire sauce, barbecue sauce or shake-on browning sauce. To use, combine browning sauce with melted butter or margarine and brush on before cooking.



For quick breads or muffins, brown sugar can be used in the recipe in place of granulated sugar, or the surface can be sprinkled with dark spices before baking.

Spacing

Individual foods, such as baked potatoes, cupcakes and appetizers, will cook more evenly if placed in the oven equal distances apart. When possible, arrange foods in a circular pattern.





Cooking Techniques

(continued)

Covering

As with conventional cooking, moisture evaporates during microwave cooking. Casserole lids or plastic wrap are used for a tighter seal. When using plastic wrap, vent the plastic wrap by folding back part of the plastic wrap from the edge of the dish to allow steam to escape. Loosen or remove plastic wrap as recipe directs for stand time. When removing plastic wrap covers, as well as any glass lids, be careful to remove them facing away from you to avoid steam burns. Various degrees of moisture retention are also obtained by using wax paper or paper towels.

Shielding

Thin areas of meat and poultry cook more quickly than meaty portions. To prevent overcooking, these thin areas can be shielded with strips of aluminum foil. Wooden toothpicks may be used to hold the foil in place.

▲ CAUTION is to be exercised when using foil. Arcing can occur if foil is too close to oven wall or door and damage to your oven will result.

Cooking time

A range of cooking time is given in each recipe. The time range compensates for the uncontrollable differences in food shapes, starting temperature, and regional preferences. Always cook food for the minimum cooking time given in a recipe and check for doneness. If the food is undercooked, continue cooking. It is easier to add time to an undercooked product. Once the food is overcooked, nothing can be done.

Stirring

Stirring is usually necessary during microwave cooking. Always bring the cooked outside edges toward the centre and the less cooked centre portions toward the outside of the dish.

Rearranging

Rearrange small items such as chicken pieces, shrimp, hamburger patties, or pork chops. Rearrange pieces from the edge to the centre and pieces from the centre to the edge of the dish.

Turning

It is not possible to stir some foods to distribute the heat evenly. At times, microwave energy will concentrate in one area of the food. To help ensure even cooking, these foods need to be turned. Turn over large foods, such as roasts or turkeys, halfway through cooking.

Stand Time

Most foods will continue to cook by conduction after the microwave oven is turned off. In meat cookery, the internal temperature will rise 3°C to 8°C (5°F to 15°F), if allowed to stand, tented with foil, for 10 to 15 minutes. Casseroles and vegetables need a shorter amount of standing time, but this standing time is necessary to allow foods to complete cooking to the centre without overcooking on the edges.

Test for Doneness

The same tests for doneness used in conventional cooking may be used for microwave cooking. Meat is done when fork-tender or splits at fibers. Chicken is done when juices are clear yellow and drumstick moves freely. Fish is done when it flakes and is opaque. Cake is done when a toothpick or cake tester is inserted and comes out clean.

ABOUT FOOD SAFETY AND COOKING TEMPERATURE

Check foods to see that they are cooked at the recommended temperatures.

TEMP	FOOD
71°C (160°F)	...for fresh pork, ground meat, boneless white poultry, fish, seafood, egg dishes and frozen prepared food.
74°C (165°F)	...for leftover, ready-to-reheat refrigerated, and deli and carryout "fresh" food.
77°C (170°F)	...white meat of poultry.
82°C (180°F)	...dark meat of poultry.

To test for doneness, insert a meat thermometer in a thick or dense area away from fat or bone. NEVER leave the thermometer in the food during cooking, unless it is approved for microwave oven use.



Care and Cleaning of Your Microwave Oven

BEFORE CLEANING:

Unplug oven at wall outlet.

AFTER CLEANING:

Be sure to place the Roller Ring and the Glass Tray in the proper position and press Stop/Reset Button to clear the Display.

Inside of the oven:

Wipe with a damp cloth after using, mild detergent may be used if needed. Do not use harsh detergents or abrasives.

Glass Tray:

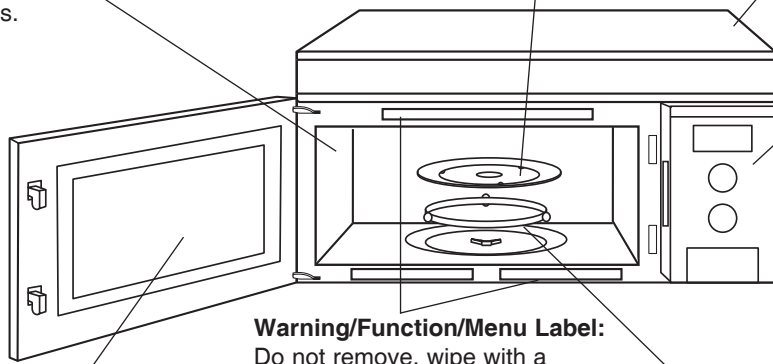
Remove and wash in warm soapy water or in a dishwasher.

Outside oven surfaces:

Clean with a damp cloth. To prevent damage to the operating parts inside the oven, water should not be allowed to seep into ventilation openings.

Control Panel:

If the Control Panel becomes wet, clean it with a soft, dry cloth. Do not use harsh detergents or abrasives.



Warning/Function/Menu Label:

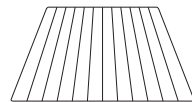
Do not remove, wipe with a damp cloth.

Oven Door:

Wipe with a soft, dry cloth when steam accumulates inside or around the outside of the oven door. During cooking, especially under high humidity conditions, steam is given off from the food. (Some steam will condense on cooler surfaces, such as the oven door. This is normal.) Inside surface is covered with a heat and vapor barrier film. **Do not remove.**

Roller Ring and oven cavity floor:

Clean the bottom surface of the oven with mild detergent water or window cleaner, and dry. Roller Ring may be washed in mild soapy water or dishwasher. These areas should be kept clean to avoid excessive noise.



Shelf

Clean with a soft damp cloth to avoid scratches.

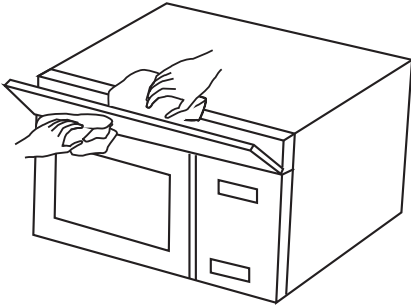
IT IS IMPORTANT TO KEEP THE OVEN CLEAN AND DRY. FOOD RESIDUE AND CONDENSATION MAY CAUSE RUSTING OR ARCING AND DAMAGE TO THE OVEN. AFTER USE, WIPE DRY ALL SURFACES-INCLUDING VENT OPENINGS, OVEN SEAMS, AND UNDER GLASS TRAY.



Care and Cleaning of Your Microwave Oven *(continued)*

Cleaning Vent Grille (Oven Air Vent)

1. Moisten a soft cloth in hot water containing mild detergent.
2. Wipe the front surface gently.
3. Tilt the Grille cover forward slowly as shown in Fig. A.



(Fig. A)

4. Wipe inside the Grille cover.

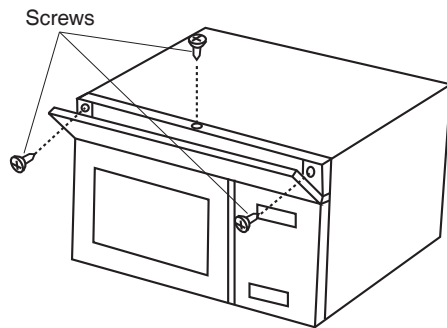
To avoid the risk of injury when cleaning, DO NOT directly contact the metal edges of the Grille cover.

For Non-vented (ductless) application only. Charcoal Filter Replacement (NN-CF203)

This product is shipped for use in the top exhaust ventilation mode. If you wish to install this product without using an exhaust duct, the exhaust must be recirculated through the front louver and a charcoal filter. A temporary charcoal filter has been installed for your convenience. However, we recommend that this filter be changed as soon as possible with the replacement charcoal filter kit (NN-CF203) that can be purchased from your local Panasonic dealer. The charcoal filter cannot be cleaned. Once the replacement filter has been installed, it should be replaced periodically every 6 to 12 months, or more often if necessary. Refer to the following instructions for replacement.

1. Remove the Vent Grille

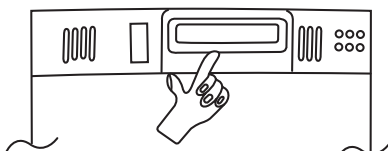
Pull the front louver down to open as shown in Fig. B.
Remove two screws from the front and one from the top, then pull the Vent Grille forward.



(Fig. B)

2. Remove the temporary Charcoal Filter

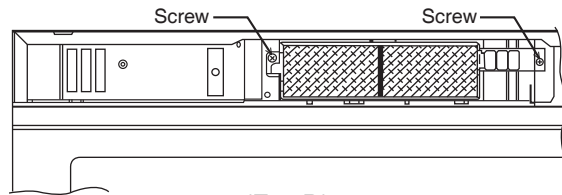
Insert your finger under the bottom of the filter, and pull the Charcoal Filter forward as shown in Fig. C.



(Fig. C)

3. Install replacement Charcoal Filter (NN-CF203)

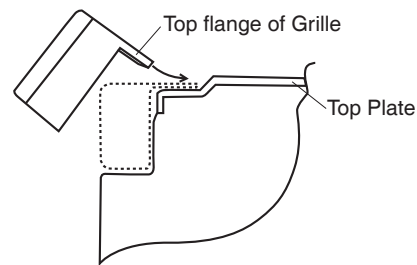
Install the Charcoal Filter aligning the two holes, then secure with two screws as shown in Fig. D.



(Fig. D)

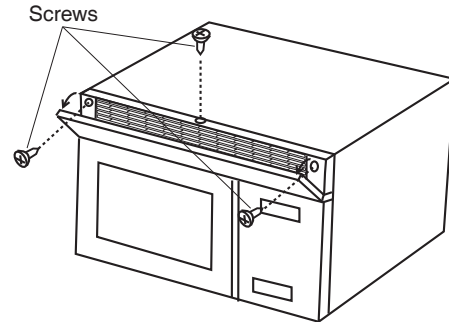
Installing Vent Grille

1. Slide the top flange of Grille along the top plate, then tilt the Grille down to fit as shown in Fig. E.



(Fig. E)

2. Tilt the front louver downwards, then secure with three screws, one on each side and one on top as shown in Fig. F.



(Fig. F)

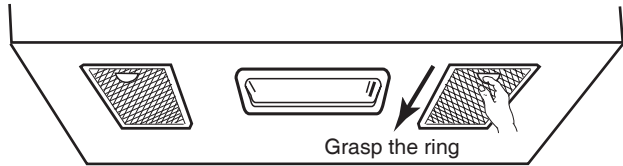


Care and Cleaning of Your Microwave Oven *(continued)*

Cleaning Grease Filters

The Grease Filters should be removed and cleaned often, at least once a month.

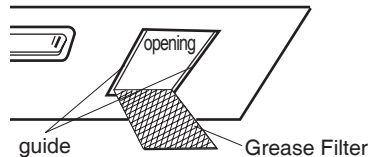
1. Grasp the "metal ring" on the Grease Filter. Slide the Grease Filter to the rear of oven.



2. Pull the Grease Filter out.
3. Use care when cleaning the Grease Filters. Corrosive cleaning agents, such as lye-based oven cleaners, may damage the Grease Filters. Clean the Grease Filters with a warm detergent solution. Do not use ammonia or other alkali because it will darken metal. Light brushing can be used to remove embedded dirt. Shake and remove moisture before replacing.

Installing Grease Filters

1. Slide in the edge of the Grease Filters along the opening's guide edges.
2. Push up front edge and pull forward until it fits.



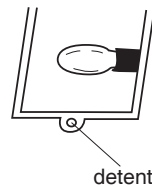
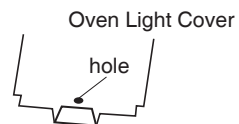
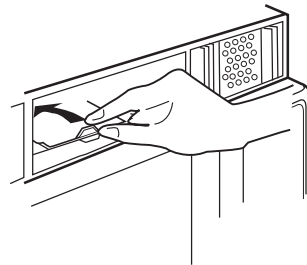
Caution: After removing the Grease Filter, be careful with the sharp edges at the openings.

Never operate the Vent Fan without the Grease Filters in place.

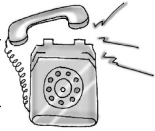
Oven Light Replacement

Be careful as the Oven Light Cover and the bulb may be hot.

1. **Unplug microwave oven or disconnect power.**
2. Remove the Vent Grille and Charcoal Filter. (see page 27 for Charcoal Filter replacement).
3. Lift the tab of Oven Light Cover, and push back. Lift up and remove the cover.
4. Replace the old bulb with a new one. (use 120 V, Max. 30 W)
If this bulb is not available locally, contact your local Panasonic dealer. Part number is F60305H00AP.
5. Reinstall the Oven Light cover securely aligning the hole in cover, onto the detent.



When cleaning the Oven Light Cover or the adjacent area, clean with a soft damp cloth.
To avoid scratches, do not use harsh detergents or abrasives.



Before Requesting Service

These things are normal:

The oven causes interference with my TV.

Some radio and TV interference might occur when you cook with the microwave oven. This interference is similar to the interference caused by small appliances such as mixers, vacuums, blow dryers, etc. It does not indicate a problem with your oven.

Steam accumulates on the oven door and warm air comes from the oven vents.

During cooking, steam and warm air are given off from the food. Most of the steam and warm air are removed from the oven by the air which circulates in the oven cavity. However, some steam will condense on cooler surfaces such as the oven door. This is normal. After use, the oven should be wiped dry (see page 26).

PROBLEM	POSSIBLE CAUSE	REMEDY
Oven will not turn on.	→ The oven is not plugged in securely. → Circuit breaker or fuse is tripped or blown. → There is a problem with the outlet.	Remove plug from outlet, wait 10 seconds and re-insert. Reset circuit breaker or replace fuse. Plug another appliance into the outlet to check if it is working.
Oven will not start cooking.	→ The door is not closed completely. → Start Button was not pressed after programming. → Another program is already entered into the oven. → The program is not correct. → Stop/Reset Button has been pressed accidentally.	Close the oven door securely. Press Start Button. Press Stop/Reset Button to cancel the previous program and enter new program. Program again according to the Operating Instructions. Program oven again.
The word "DEMO MODE" appears on the Display Window .	→ Demo mode was selected "On".	Deactivate mode by pressing Power Level button once Start Button 4 times and Stop/Reset Button 4 times.
The Glass Tray wobbles.	→ The Glass Tray is not positioned properly on the Roller Ring or there is food under the Roller Ring.	Take out Glass Tray and Roller Ring. Wipe with a damp cloth and reset Roller Ring and Glass Tray properly.
When the oven is operating, there is noise coming from the glass tray.	→ The Roller Ring and oven bottom are dirty.	Clean these parts according to Care and Cleaning of your Microwave Oven (see page 26).
The word "LOCK" appears in the Display Window .	→ The CHILD LOCK was activated.	Deactivate LOCK by pressing Stop/Reset button 3 times (see page 11).
The oven stops cooking by microwave and "H00", "H97" or "H98" appears in the Display Window .	→ This display indicates a problem with the microwave generation system.	Please contact an authorised Service Center (see page 30).

Warranty

Panasonic Canada Inc.
5770 Ambler Drive, Mississauga, Ontario L4W 2T3

PANASONIC PRODUCT – LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship under normal use and for a period as stated below from the date of original purchase agrees to, at its option either (a) repair your product with new or refurbished parts, (b) replace it with a new or a refurbished equivalent value product, or (c) refund your purchase price. The decision to repair, replace or refund will be made by Panasonic Canada Inc.

Microwave Oven: **Two (2) years, parts and labour (Carry-in Service). Additional three (3) year warranty on the magnetron (parts only, labour extra).**

In-home Service applies to Convection, Over-The-Range and Stainless Steel ovens only.

In-home Service will be carried out only to locations accessible by roads and within 50 km of an authorized Panasonic service facility.

This warranty is given only to the original purchaser, or the person for whom it was purchased as a gift, of a Panasonic brand product mentioned above sold by an authorized Panasonic dealer in Canada and purchased and used in Canada, which product was not sold "as is", and which product was delivered to you in new condition in the original packaging.

IN ORDER TO BE ELIGIBLE TO RECEIVE WARRANTY SERVICE HEREUNDER, A PURCHASE RECEIPT OR OTHER PROOF OF DATE OF ORIGINAL PURCHASE, SHOWING AMOUNT PAID AND PLACE OF PURCHASE IS REQUIRED

LIMITATIONS AND EXCLUSIONS

This warranty **ONLY COVERS** failures due to defects in materials or workmanship, and **DOES NOT COVER** normal wear and tear or cosmetic damage. The warranty **ALSO DOES NOT COVER** damages which occurred in shipment, or failures which are caused by products not supplied by Panasonic Canada Inc., or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Authorized Servicer, or damage that is attributable to acts of God.

Over-The-Range cooktop light bulbs are excluded from coverage under this warranty.

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT OR ARISING OUT OF ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY. (As examples, this warranty excludes damages for lost time, travel to and from the Authorized Servicer, loss of or damage to media or images, data or other memory or recorded content. This list of items is not exhaustive, but for illustration only.)

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable. This warranty gives you specific legal rights and you may have other rights which vary depending on your province or territory.

WARRANTY SERVICE

For product operation and information assistance, please contact:

PRODUCT OPERATION ASSISTANCE

Customer Care Centre:	Telephone #:	1-800-561-5505
	Fax #:	(905) 238-2360
	Email link:	"Support→ contact us→ email" on www.panasonic.ca

PRODUCT REPAIRS

Please locate your nearest Authorized Servicentre.

Link: "Support→ Panasonic Servicentre® locator" on www.panasonic.ca

IF YOU SHIP THE PRODUCT TO A SERVICENTRE

Carefully pack and send prepaid, adequately insured and preferably in the original carton.

Include details of the defect claimed, and proof of date of original purchase.

Quick Guide to Operation

Feature	How to Operate			
To Set Clock (☛ page 12)	Timer/Clock →  Time Dial → Timer/Clock Press twice. Set time of day. Press once.			
To Set Light Hi-Warm/Hi-Cool/Low/Off (☛ page 12)	Hi-Warm  Hi-Warm/Hi-Cool/Low/Off Press once.	Hi-Cool  Hi-Warm/Hi-Cool/Low/Off Press twice.	Low  Hi-Warm/Hi-Cool/Low/Off Press three.	Turn off the Light  Hi-Warm/Hi-Cool/Low/Off Press again.
To Set Turntable On/Off (☛ page 12)	To Set Turntable off Turntable On/Off Press once.		To Set Turntable on Turntable On/Off Press again.	
To Set Super/Turbo/Off (☛ page 12)	To set Super Fan  Super/Turbo/Off Press once.	To set Turbo Fan  Super/Turbo/Off Press twice.	To turn off  Super/Turbo/Off Press again.	
To Set Fan High/Low/Off (☛ page 12)	To turn on at High Speed  High/Low/Off Press once.	To turn on at Low Speed  High/Low/Off Press twice.	To turn off  High/Low/Off Press again.	
To Use Auto Off 1/3/5/10 (☛ page 12)	To turn on for one minute Auto Off 1/3/5/10 Press once.	To turn on for 3 minutes Auto Off 1/3/5/10 Press twice.	To turn on for 5 minutes Auto Off 1/3/5/10 Press three times.	To turn on for 10 minutes Auto Off 1/3/5/10 Press again.
To Set Power and Time (☛ page 13)	Power Level (10 Levels) →  Time Dial → Start Press to select Power Level. Set Cooking Time. Press.			
To Cook Using Quick Min (☛ page 13)	Quick Min (up to 10 min) →  Start Press.			
To use Keep Warm (☛ page 13)	Keep Warm →  Time Dial → Start Press once. Set keep warm time. (up to 30 min.) Press.			
To Cook using Popcorn (☛ page 14)	Popcorn →  More/Less → Start Press once. Optional. Press.			
To Defrost using Inverter Turbo Defrost (☛ page 15)	Inverter Turbo Defrost →  Weight Dial → Start Press once. Set weight. Press.			
To Reheat Using Sensor Reheat (☛ page 17)	Sensor Reheat →  More/Less → Start Press once. Optional. Press.			
To Cook Using Sensor Cook (☛ page 17)	Sensor Cook →  Sensor Menu Dial → More/Less → Start Press once. To select category. Optional. Press.			
To Use as a Kitchen Timer (☛ page 20)	Timer/Clock →  Time Dial → Start Press once. Set time. Press.			
To Set Stand Time (☛ page 20)	(Input up to 2-stage cooking programs.) → Timer/Clock →  Time Dial → Start Press once. Set time. Press.			
To Set Delay Start (☛ page 20)	Timer/Clock →  Time Dial → (Input up to 2-stage cooking programs.) → Start Press once. Set time. Press.			



Specifications

Power Source:	120 V, 60 Hz			
Power Consumption:	1,440 W			
Cooking Power:*	1,100 W			
Outside Dimensions (W x H x D):	759 mm x 418 mm x 393 mm (29 ⁷ / ₈ " x 16 ⁷ / ₁₆ " x 15 ¹ / ₂ ")			
Oven Cavity Dimensions (W x H x D):	591 mm x 242 mm x 367 mm (23 ¹ / ₄ " x 9 ¹ / ₂ " x 14 ⁷ / ₁₆ ")			
Charcoal Filter (optional):	NN-CF203			
Operation Frequency:	2,450 MHz			
Ventilation Power:	Super 450 CFM	Turbo 300 CFM	High 160 CFM	Low 130 CFM
Noise Level:	60 dB	55 dB	49 dB	40 dB
Net Weight:	Approx. 25.0 kg (55 lbs.)			

*IEC Test procedure

Specifications/part numbers subject to change without notice.

User's Record

The serial number of this product may be found on the left side of the control panel. You should note the model number and the serial number of this oven in the space provided and retain this book as a permanent record of your purchase for future reference.

Model No. _____

Serial No. _____

Date of Purchase _____



Notes