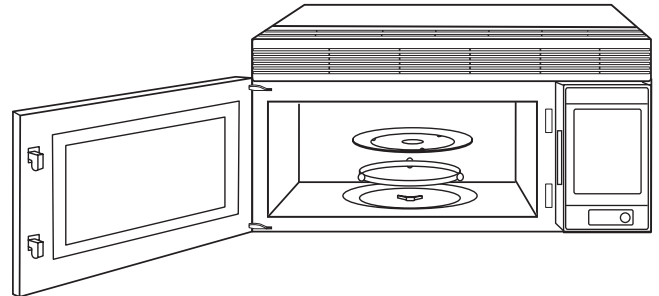
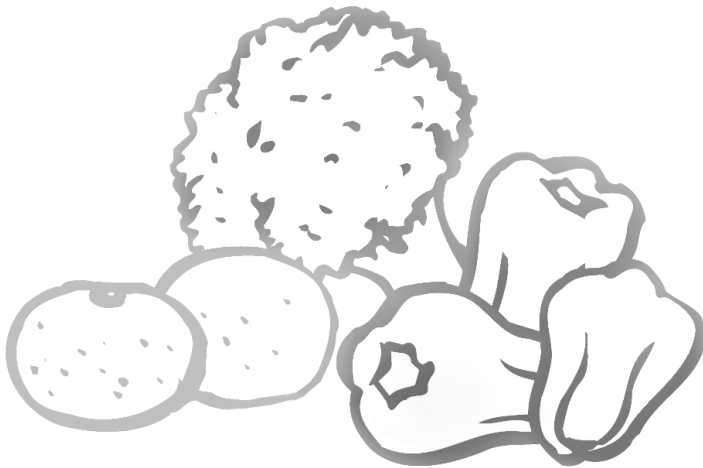




# Panasonic®

## Operating Instructions Microwave Oven

### Models: NN-S263/S253



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**READ ALL INSTRUCTIONS CAREFULLY BEFORE USING THE OVEN.**

Para instrucciones en español, voltee el libro.

For assistance, please call: 1-800-211-PANA(7262)  
or send e-mail to: [consumerproducts@panasonic.com](mailto:consumerproducts@panasonic.com)  
or visit us at [www.panasonic.com](http://www.panasonic.com)

(U.S.A)

For assistance, please call: 787-750-4300  
or visit us at [www.panasonicpr.com](http://www.panasonicpr.com)

(Puerto Rico)

# 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**

CAUTION indicates 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 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 the inside front cover.
3. This appliance must be grounded. Connect only to a properly grounded outlet. See "GROUNDING INSTRUCTIONS" found on page 3.
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 3.
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 on 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. Liquids, such as water, coffee, or tea are able to be overheated beyond the boiling point without appearing to be boiling. Visible bubbling when the container is removed from the microwave oven is not always present. **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 36 inches (91.4 cm) or less wide. To reduce the risk of fire and electric shock, install at least 13<sup>5</sup>/<sub>8</sub> inches (34.4 cm), 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. When flaming foods under the hood, turn the fan on.

### ⚠ WARNING

#### TO AVOID THE RISK OF SHOCK:

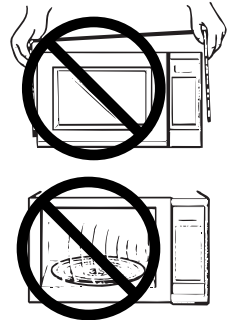
**DO NOT** remove outer panel from oven. Repairs must be done only by a qualified service person.

#### 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.



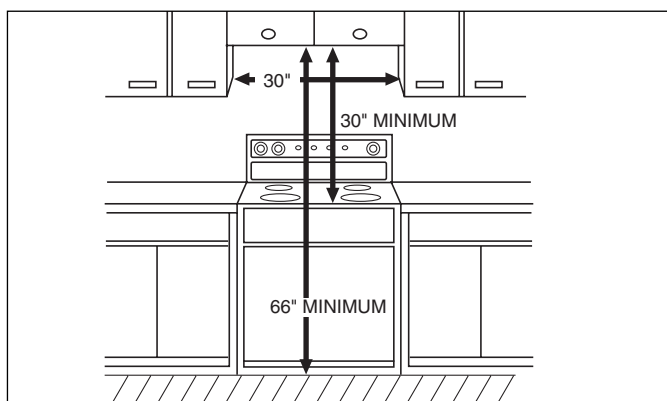
# INSTALLATION AND GROUNDING INSTRUCTIONS

## 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 30 in. 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 2" x 4" (5 x 10cm) stud and  $\frac{3}{8}$ " (1cm) minimum thickness drywall or plaster/lath. For further information, please consult the additional installation instructions provided.
4. Make sure the bottom of the top cabinet is 66" (1.67 m) or more from the floor and 30" (76 cm) or more from the cooking surface.
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

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. The oven must be plugged into at least a 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. 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 conditions. 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 this appliance is to be vented inside the kitchen, an optional charcoal filter kit should be installed in the unit before you operate. Additional charcoal filter kits 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 pad (refer to page 13). 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 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 1-inch (2.5 cm) 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 more 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**

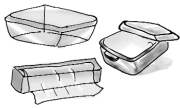
- **DO NOT** heat baby formula or baby food in the microwave oven. The glass jar or surface of the food may appear warm while the interior can be so hot as to burn the infant's mouth and esophagus.

### **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 (ex. Jelly Donuts).

### **11) GENERAL OVEN USAGE GUIDELINES**

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



# Cookware Guide

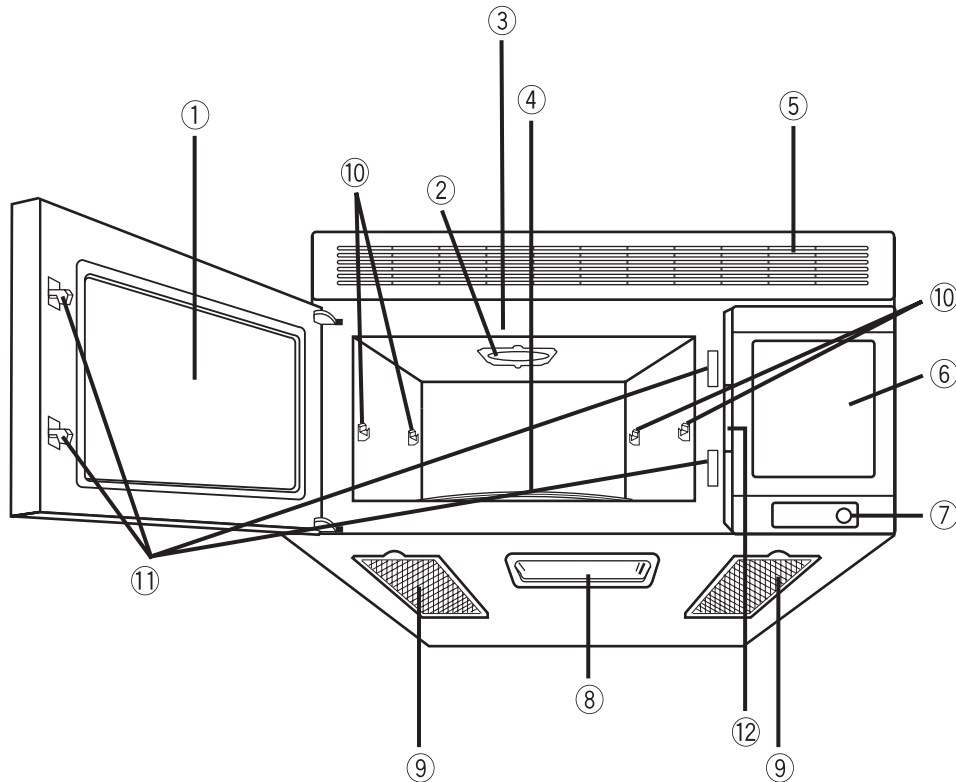
ITEM	MICROWAVE	COMMENTS
Aluminum Foil	Yes for Shielding only	Small strips of foil can be molded around thin parts of meat or poultry to prevent overcooking. Arcing can occur if foil is too close to oven wall or door and damage to your oven will result.
Browning Dish	Yes	Browning dishes are designed for 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 <b>CONTAINER TEST</b> 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 <b>CONTAINER TEST</b> 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 1/2-inch (1 cm) 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



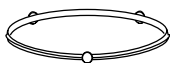
## Shelf

(NN-S263 only)

Shelf can be used for 2-level cooking,  
see page 22



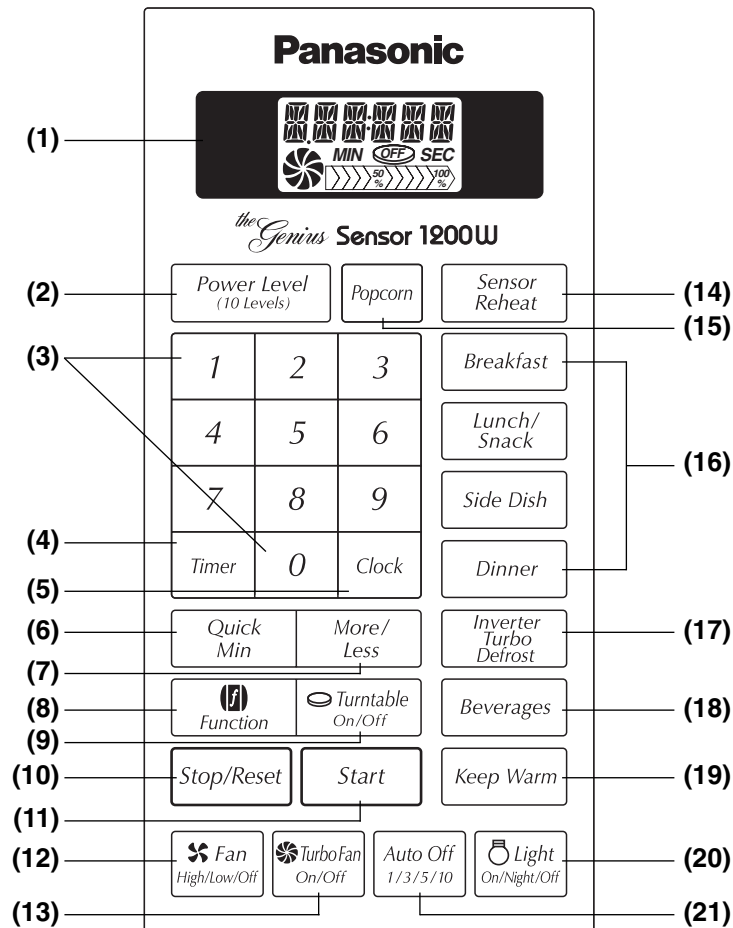
## Glass Tray



## Roller Ring

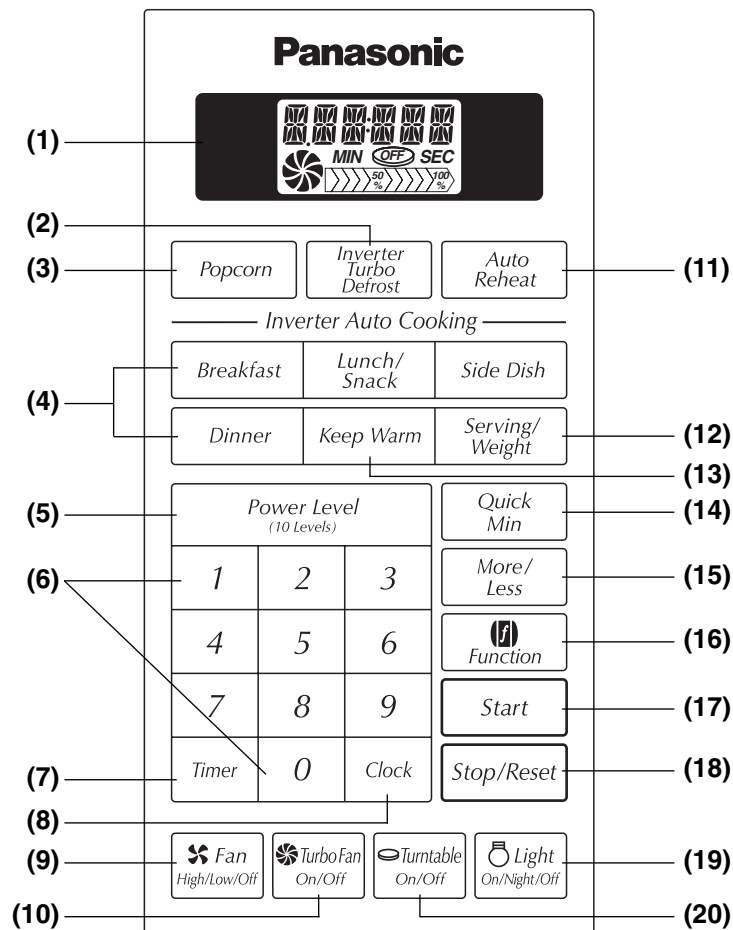
- ① **See-through Oven Window**
- ② **Waveguide Cover** (do not remove)
- ③ **Oven Light** (Oven Light can be replaced, see page 29)
- ④ **Glass Tray** (Turntable)
- ⑤ **Oven Air Vent** (Vent Grille/Vent Grille is removable and can be cleaned, see page 28)
- ⑥ **Control Panel**
- ⑦ **Door Release Button**
- ⑧ **Cooktop Light** (Cooktop Light can be replaced, see page 29)
- ⑨ **Grease Filter** (Grease filter is removable and can be cleaned, see page 28)
- ⑩ **Shelf Supports** (NN-S263 only)
- ⑪ **Door Safety Lock System**
- ⑫ **Identification Plate**

# Control Panel (NN-S263)



- (1) **Display Window:** The Display includes a clock and indicators to tell you time of day, cooking time settings and cooking functions selected.
- (2) **Power Level Pad:** Touch this pad to select a cooking power level. (☛ page 12)
- (3) **Number Pads:** Touch number pads to enter cooking time, power level, quantities or weights.
- (4) **Timer Pad:** Touch this pad to set the kitchen timer. (☛ page 21)
- (5) **Clock Pad:** Touch this pad to enter the time of day. (☛ page 11)
- (6) **Quick Min Pad:** Touch this pad to set or add cooking time in 1 minute increments. (☛ page 12)
- (7) **More/Less Pad:** Touch this pad to cook food for a longer or shorter time when using Popcorn, Sensor Reheat and Sensor Cooking pads. (☛ page 13, 16)
- (8) **Function Pad:** Touch this pad to change the oven's default settings for sound, clock, display speed, defrost weight, and demo mode operations. (☛ page 10)
- (9) **Turntable On/Off Pad:** Touch this pad to turn the Turntable on or off. (☛ page 11)
- (10) **Stop/Reset Pad:** Touch this pad to stop oven or clear all entries.
- (11) **Start Pad:** Touch this pad to start a function. If you open the door after oven begins to cook, retouch START.
- (12) **Fan High/Low/Off Pad:** Touch this pad to turn the fan on or off. (☛ page 11)
- (13) **Turbo Fan On/Off Pad:** Touch this pad to turn the Turbo Fan on or off. (☛ page 11)
- (14) **Sensor Reheat Pad:** Touch this pad to reheat any quantity of food with only one touch. (☛ page 16)
- (15) **Popcorn Pad:** Touch this pad to pop bags of packaged microwave popcorn. (☛ page 13)
- (16) **Sensor Cooking Pads** (☛ page 16)
- (17) **Inverter Turbo Defrost Pad:** This feature allows you to defrost meat, poultry and seafood simply by entering the weight. (☛ page 14)
- (18) **Beverages Pad:** Touch this pad to reheat room temperature beverages without setting power and time. (☛ page 13)
- (19) **Keep Warm Pad:** Touch this pad to keep foods warm for up to 30 minutes after cooking. (☛ page 12)
- (20) **Light On/Night/Off Pad:** Touch this pad to turn on the cooktop light. (☛ page 11)
- (21) **Auto Off 1/3/5/10 Pad:** Touch this pad to set the fan time. (☛ page 11)

# Control Panel (NN-S253)


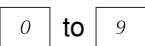
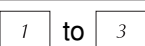


- (1) **Display Window:** The Display includes a clock and indicators to tell you time of day, cooking time settings and cooking functions selected.
- (2) **Inverter Turbo Defrost Pad:** This feature allows you to defrost meat, poultry and seafood simply by entering the weight. (☛ page 14)
- (3) **Popcorn Pad:** Touch this pad to pop bags of packaged microwave popcorn. (☛ page 13)
- (4) **Inverter Auto Cooking Pads** (☛ page 18)
- (5) **Power Level Pad:** Touch this pad to select a cooking power level. (☛ page 12)
- (6) **Number Pads:** Touch number pads to enter cooking time, power level, quantities or weights.
- (7) **Timer Pad:** Touch this pad to set the kitchen timer. (☛ page 21)
- (8) **Clock Pad:** Touch this pad to enter the time of day. (☛ page 11)
- (9) **Fan High/Low/Off Pad:** Touch this pad to turn the fan on or off. (☛ page 11)
- (10) **Turbo Fan On/Off Pad:** Touch this pad to turn the Turbo Fan on or off. (☛ page 11)
- (11) **Auto Reheat Pad:** Touch this pad to reheat a dinner plate, soup/sauce, or casserole. (☛ page 18)
- (12) **Serving/Weight Pad:** Touch this pad to verify serving size when using Inverter Auto Cooking. (☛ page 18)
- (13) **Keep Warm Pad:** Touch this pad to keep foods warm for up to 30 minutes after cooking. (☛ page 12)
- (14) **Quick Min Pad:** Touch this pad to set or add cooking time in 1 minute increments. (☛ page 12)
- (15) **More/Less Pad:** Touch this pad to cook food for a longer or shorter time when using Popcorn, Auto Reheat and Inverter Auto Cooking pads. (☛ page 13, 18)
- (16) **Function Pad:** Touch this pad to change the oven's default settings for sound, clock, display speed, defrost weight, and demo mode operations. (☛ page 10)
- (17) **Start Pad:** Touch this pad to start a function. If you open the door after oven begins to cook, retouch START.
- (18) **Stop/Reset Pad:** Touch this pad to stop oven or clear all entries.
- (19) **Light On/Night/Off Pad:** Touch this pad to turn on the cooktop light. (☛ page 11)
- (20) **Turntable On/Off Pad:** Touch this pad to turn the Turntable on or off. (☛ page 11)



# Function Features

This unique function of your PANASONIC microwave oven allows you to establish the initial non-cooking features of your oven such as CHILD LOCK, WORD SPEED, LANGUAGE CHOICE (ENGLISH, FRENCH OR SPANISH), plus many more. See below.

1. 	• Press <b>Function</b> .
2.  Press	• Press selection by number pad (see chart below).
3.  Press	• Press selection.
4. If other options are desired, repeat steps 1-3 for additional selections.	



→ 1	<b>LANGUAGE CHOICE</b> The oven has a choice of English, French or Spanish display. The display appears in English when you plug-in. → *1 ENGLISH ↔ Display appears in English. → 2 FRANCAIS ↔ Display appears in French. → 3 ESPANOL ↔ Display appears in Spanish.
→ 2	<b>Lb/KG CHOICE</b> The oven has both imperial and metric weight measurements. The oven displays the weight in imperial when you plug it in. → *1 Lb ↔ Weight can be set in oz/lb, (Imperial). → 2 KG ↔ Weight can be set in g/kg, (Metric).
→ 3	<b>WORD SPEED</b> The speed of word scrolling on the Display Window can be sped up or slowed down. → 1 QUICK ↔ Words scroll quickly. → *2 MEDIUM ↔ Scrolling speed returns to initial setting. → 3 SLOW ↔ Words scroll slowly.
→ 4	<b>MENU ACTION ON/OFF</b> MENU ACTION SCREEN helps you to program your oven by prompting the next step to be taken. When you become familiar with your oven, the prompt can be turned off. → *1 ON ↔ Prompting Guide will appear. → 2 OFF ↔ Prompting Guide will not appear.
→ 5	<b>CHILD LOCK ON/OFF</b> The oven has a Child Safety Lock feature which prevents use by children. It does not lock the door. → 1 ON ↔ Child Lock has been set and operation will not be accepted. → *2 OFF ↔ Child Lock has been cancelled.
→ 6	<b>BEEP ON/OFF</b> If you wish to have the oven operate with no beep, it can be eliminated. → *1 ON ↔ Beep sound will reactivate. → 2 OFF ↔ Beep sound will not be heard.
→ 7	<b>REMINDER BEEP ON/OFF</b> A reminder beep works to remind you to remove the food from the oven after the completion of cooking. It will occur every 15 seconds. → 1 ON ↔ Reminder beep will work. → *2 OFF ↔ Reminder beep will not work.
→ 8	<b>DAYLIGHT SAVING ON/OFF</b> → 1 ON ↔ Time of day will advance one hour. → *2 OFF ↔ Time of day returns to original setting.
→ 9	<b>CLOCK ON/OFF</b> Clock display can be turned off. → *1 ON ↔ Clock display will appear on the Display Window. → 2 OFF ↔ Clock display will not appear on the Display Window. Time of day will be stored in memory while the display is off.
→ 0	<b>DEMO MODE ON/OFF</b> Demo mode is designed for retail store display. In this mode, the oven can be demonstrated with no power in the oven. → 1 ON ↔ The oven is in Demo mode. → *2 OFF ↔ The oven is not in Demo mode.

\* DEFAULT MODE



## Setting the Clock

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

1.		<ul style="list-style-type: none"> <li>Press <b>Clock</b> once.</li> <li>▶ Colon flashes.</li> </ul>
2.		<ul style="list-style-type: none"> <li>Enter time of day using the number pads.</li> <li>▶ Time appears in the display window; colon continues flashing.</li> </ul>
3.		<ul style="list-style-type: none"> <li>Press <b>Clock</b>.</li> <li>▶ Colon stops flashing; time of day is entered.</li> </ul>

### NOTES:

- To reset the clock, repeat step 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 On/Night/Off

	<p>This feature allows you to control the brightness of Cooktop Light. Press "Light On/Night/Off" pad once for bright light, twice for the night light or three times to turn the light off.</p>
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## Setting Turntable On/Off

	<p>For best cooking results, leave the turntable on. It can be turned off for large dishes. Press "Turntable On/Off" pad to turn the turntable on or off. When you turn it off,  will appear in the display window.</p>
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### 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 / Keep Warm / Sensor Reheat / Sensor Cook / Auto Reheat / Inverter Auto Cooking. **Sometimes the turntable can become too hot to touch.** Be careful when touching the turntable during and after cooking.



## Setting Fan High/Low/Off

	<p>The Fan (Vent Fan) removes steam and other vapors from the cooking surface. Press "Fan High/Low/Off" pad once for High fan speed, twice for Low fan speed, or a three times to turn the fan off. When you turn it on,  will appear on the display window.</p>
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### NOTE: Automatic Fan

If the temperature gets too hot around the microwave oven, the fan in the vent hood will automatically turn on at the Turbo setting to cool the oven.

When this occurs, the Display Window shows "VENTILATING" and **you cannot turn the fan off manually.** The fan will automatically turn off when the internal parts are cool. It may stay on for 30 minutes or more.



## Setting Turbo Fan On/Off

	<p>Use "Turbo Fan On/Off" pad for maximum fan speed. Press "Turbo Fan On/Off" pad once to turn on the Turbo Fan or twice to turn it off. When you turn it on,  will appear on the display window.</p>
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## Setting Auto Off 1/3/5/10 (NN-S263)

	<p>After you have selected Fan High/Low or Turbo Fan On, you can set the desired time that automatically turns off the Fan or Turbo Fan. Press "Auto Off 1/3/5/10" pad to set fan time. The following is the set times for the number of taps to the key:</p>
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one tap	—	1 min	←
		↓	
two taps	—	3 min	
		↓	
three taps	—	5 min	
		↓	
four taps	—	10 min	
		↓	
five taps	—		

**NOTE:** If Auto Off is retouched while Auto Off time had been set, you must reset the time.

**When "HOT" appears on the Display Window:** When using range below on high heating power or using electric oven for a long time, "HOT" appears on the Display Window and the microwave oven does not work. In this case, wait until the microwave oven is cool and "HOT" disappears. Using "Turbo Fan On" makes the oven cool rapidly.



## Selecting Power & Cook Time

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

1. Press 5 times.	• Press <b>Power Level</b> until the desired power level appears in the display window.
2.	• Set Cooking Time using number pads.
3.	• Press <b>Start</b> . ➤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 (MEDIUM-HIGH)
5 times	P6 (MEDIUM)
6 times	P5
7 times	P4
8 times	P3 (MEDIUM-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** Pad. The maximum number of stages for cooking is 5. 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 99 minutes and 99 seconds.
- For reheating, use P10 (HIGH) for liquids, P7 (MEDIUM-HIGH) for most foods and P6 (MEDIUM) for dense foods.
- For defrosting, use P3 (MEDIUM-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.	• Press <b>Quick Min</b> until the desired cooking time (up to 10 minutes) appears in the display window. Power Level is pre-set at P10.
2.	Press <b>Start</b> . 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 **Quick Min** Pad, you cannot use Number Pads.
- Quick Min** Pad can be used to add more time during manual cooking.



## 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.	• Press <b>Keep Warm</b> .
2.	• Set warming time, up to 30 minutes.
3.	• Press <b>Start</b> . ➤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

### Example: To pop 3.5 oz. of popcorn

<b>1.</b>  	<ul style="list-style-type: none"> <li>Press <b>Popcorn</b> until the desired size appears in the display window.</li> </ul> <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Press</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>once</td> <td>3.5 oz (99 g)</td> </tr> <tr> <td>twice</td> <td>3.0 oz (85 g)</td> </tr> <tr> <td>3 times</td> <td>1.75 oz (50 g)</td> </tr> </tbody> </table>	Press	Weight	once	3.5 oz (99 g)	twice	3.0 oz (85 g)	3 times	1.75 oz (50 g)
Press	Weight								
once	3.5 oz (99 g)								
twice	3.0 oz (85 g)								
3 times	1.75 oz (50 g)								
<b>2.</b>   Optional	(see <b>More/Less</b> Feature.)								
<b>3.</b>  	<ul style="list-style-type: none"> <li>Press <b>Start</b>.               <ul style="list-style-type: none"> <li>➤ After several seconds, cooking time appears in the display window and begins to count down.</li> </ul> </li> </ul>								

#### NOTES ON POPCORN FEATURE:

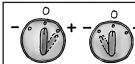
- Pop one bag at a time.
- Place bag in oven according to manufacturers' directions.
- Start with popcorn at room temperature.
- Allow popped corn to sit unopened for a few minutes.
- Open bag carefully to prevent burns, because steam will escape.
- Do not reheat unpopped kernels or reuse bag.

#### NOTE:

If popcorn is of a different weight than listed, follow instructions on popcorn package. **Never leave the oven unattended.** If popping slows to 2 to 3 seconds between pops, stop oven. **Overcooking can cause fire.**

#### 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** Pad, the programs can be adjusted to cook popcorn for a longer or shorter time if desired.

- 1 tap = Adds Approx. 10 secs.
- 2 taps = Adds Approx. 20 secs.
- 3 taps = Subtracts Approx. 10 secs.
- 4 taps = Subtracts Approx. 20 secs.
- 5 taps = Original setting

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

#### For Sensor Reheat/Cook (NN-S263) and Auto Reheat/Inverter Auto Cooking (NN-S253):

Preferences for food doneness vary with each individual. After having used the **Sensor Reheat/Cook** or **Auto Reheat/Inverter Auto Cooking** 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

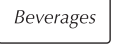
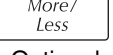

Press **More/Less** pad before pressing **Start**.



## Beverages (NN-S263)

This feature allows you to reheat 1 cup (250 ml) or 2 cups (500 ml) of room temperature beverages without setting power and time.

### Example: To reheat 2 cups of beverage

<b>1.</b>   Press twice	<ul style="list-style-type: none"> <li>Press <b>Beverages</b> until the desired number of servings appears in the display window.</li> </ul>
<b>2.</b>   Optional	(see <b>More/Less</b> Feature.)
<b>3.</b>  	<ul style="list-style-type: none"> <li>Press <b>Start</b>.               <ul style="list-style-type: none"> <li>➤ Cooking time appears in the display window and begins to count down.</li> </ul> </li> </ul>

#### NOTE:

- Use a microwave safe cup.
- Heated liquids can erupt if not mixed with air. Do not heat liquids in your microwave oven without stirring before and halfway through heating.
- Care must be exercised not to overheat liquids when using the Beverage feature. It is programmed to give proper result when heating 1 cup (250 ml) or 2 cups (500 ml) of liquid, starting from room temperature. Overheating will cause an increased risk of scalding, or water eruption. Refer to page 1, item 18.






## Inverter Turbo Defrost Feature

This feature allows you to 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.		• Press <b>Inverter Turbo Defrost</b> .
2.		• Enter weight of the food using the number pads.
3.		• Press <b>Start</b> . 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



## 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 15.
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	DEFROST TIME at P3 mins (per lb)	DURING DEFROSTING	AFTER DEFROSTING	
			Stand Time	Rinse
<b>Fish and Seafood</b> [up to 3 lbs. (1.4 kg)]				
Crabmeat	6	Break apart/Rearrange	5 min.	YES
Fish Steaks	4 to 6	Turn over		
Fish Fillets	4 to 6	Turn over/Rearrange/Shield ends		
Sea Scallops	4 to 6	Break apart/Remove defrosted pieces		
Whole fish	4 to 6	Turn over		
<b>Meat</b>	4 to 5	Turn over/Remove defrosted portion/Shield edges	10 min.	NO
Ground Meat				
Roasts [2½-4 lbs. (1.1-1.8 kg)]	4 to 8	Turn over/Shield ends and defrosted surface	30 min. in refrig.	
Chops/Steak	6 to 8	Turn over/Rearrange/Shield ends and defrosted surface	5 min.	
Ribs/T-bone	6 to 8	Turn over/Rearrange/Shield ends and defrosted surface		
Stew Meat	4 to 8	Break apart/Rearrange/Remove defrosted pieces		
Liver (thinly sliced)	4 to 6	Drain liquid/Turn over/Separate pieces		
Bacon (sliced)	4	Turn over	- - - -	
<b>Poultry</b>				
Chicken, Whole [up to 3 lbs. (1.4 kg)]	4 to 6	Turn over/Shield	20 min. in refrig.	YES
Cutlets	4 to 6	Break apart/Turn over/Remove defrosted Pieces	5 min.	
Pieces	4 to 6	Break apart/Turn over/Shield	10 min.	
Cornish Hens	6 to 8	Turn over/Shield		
Turkey Breast [5-6 lbs. (2.3-2.7 kg)]	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 17, please refer to page 12 for manual cooking.



## Sensor Reheat Feature (NN-S263)

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

### Example: To reheat a plate of food

1.		• Press <b>Sensor Reheat</b> .
2.	 Optional	(see <b>More/Less</b> Feature) (☛ page 13)
3.		• Press <b>Start</b> . ➤ Cooking starts.

After steam is detected by the Genius Sensor, 2 beeps sound. The remaining cooking time appears in the display window and begins to count down.  
At the end of cooking, five beeps sound.

#### 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 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 (NN-S263)

- Breakfast




Lunch/  
Snack

Side Dish

Dinner

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

### Example: To cook a 10 oz. Frozen Entrée

1.	 Press 3 times	Press until the desired category appears on the display window.
2.	 Optional	(see <b>More/Less</b> Feature) (☛ page 13)
3.		• Press <b>Start</b> . ➤ Cooking starts.

After steam is detected by the Genius Sensor, 2 beeps sound. The remaining cooking time appears in the display window and begins to count down.  
At the end of cooking, five beeps sound.

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

##### BEFORE Reheating/Cooking:

1. The room temperature surrounding the oven should be below 95° F (35° C).
2. Food weight should exceed 4 oz. (110 g).
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. 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 2 beeps sound and cooking time appears on the Display Window. Doing so will cause inaccurate cooking since the steam from food is no longer contained within the oven cavity. Once the cooking time begins 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 (NN-S263)




Pad	Recipe	Serving/Weight	HINTS
Breakfast	1. Oatmeal	1/2 - 1 cup (40 - 80 g)	Place inside a microwave safe serving bowl with no cover. Follow manufacturers' directions for preparation.
	2. Breakfast Sausage	2 - 8 links	Follow manufacturers' directions for preparation of pre-cooked breakfast sausage. Place in a radial pattern.
	3. Omelet	2, 4 eggs	Follow Basic Omelet recipe on page 20.
Lunch/Snack	4. Soup	1 - 2 cups (250 - 500 ml)	Pour soup into a microwave safe serving bowl. Cover with lid or vented plastic wrap.
	5. Hot Dog	4 maximum	Make 3 slits on each Hot Dog. Place Hot Dog on paper plate or microwave safe dish leaving space between each. Times may vary by size and manufacturer.
	6. Frozen Entrées	8 - 32 oz. (225 - 900 g)	Follow manufacturers' directions for preparation of 8 and 10 oz. sizes. For larger sized entrées, where the directions state for the entire film cover to be removed, do not vent or remove film cover to ensure the sensor will detect accurately for complete cooking. After 2 beeps, stir or rearrange. Be careful when removing the film cover after cooking. Remove away from you to avoid steam burns. If additional time is needed, continue to cook manually.
	7. Frozen Pizza (single)	4, 8 oz. (110, 225 g)	Follow manufacturers' directions for preparation.
	8. Frozen Pocket Sandwich	1 sandwich (4.5 oz.) (128 g)	Follow manufacturer's directions for preparation.
Side Dish	9. Potatoes	4 maximum (6 - 8 oz. each) (170 - 225 g)	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 1 inch (2.5 cm) apart. Do not cover. Let stand 5 minutes to complete cooking.
	10. Fresh Vegetables	4 - 16 oz. (110 - 450 g)	All pieces should be the same size. Wash thoroughly and 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.
	11. Frozen Vegetables	6 - 16 oz. (170 - 450 g)	Wash thoroughly and add 1 tbsp. of water per 1/2 cup of vegetables. Do not salt/butter until after cooking. (Not suitable for vegetables in butter or sauce.) After 2 beeps, stir or rearrange.
	12. Canned Vegetables	15 oz. (430 g)	Empty contents into microwave safe serving bowl. Do not cover.
	13. Rice	1/2 - 1 1/2 cup (110 - 335 g)	Place rice with hot water in a microwave safe casserole dish. Cover with lid or vented plastic wrap. Let stand 5 to 10 minutes before serving.
Dinner	14. Frozen Dinners	11 - 16 oz. (300 - 450 g)	Follow manufactures' directions for covering or removing covers. Do not use frozen foods packaged in foil trays.
	15. Chicken Pieces	1/2 - 2 lb. (170 - 900 g)	Place skin-side up. Cover with vented plastic wrap. Let stand 5 minutes before serving.
	16. Pasta	2 - 8 oz. (56 - 225 g)	Place pasta with hot water in a microwave safe casserole dish. Cover with lid or vented plastic wrap.
	17. Ground Meat	16 - 32 oz. (450 - 900 g)	Break apart in glass bowl or colander. Cover with vented plastic wrap. After 2 beeps, stir. Re-cover and press <b>Start</b> . Juices should be clear. Drain.
	18. Fish Fillets	4 - 16 oz. (110 - 450 g)	Arrange in a single layer. Cover with lid or vented plastic wrap.



## Auto Reheat Feature (NN-S253)

This feature allows you to reheat 1 to 4 servings of precooked refrigerator temperature foods without setting power and time.

### Example: To reheat 2 servings of casserole

<b>1.</b>  Press twice	<ul style="list-style-type: none"> <li>Press <b>Auto Reheat</b> until the desired number of servings appears in the display window.</li> </ul>
<b>2.</b>  Optional	(see <b>More/Less</b> Feature) (☛ page 13)
<b>3.</b> 	<ul style="list-style-type: none"> <li>Press <b>Start</b>.              ►Cooking begins and the time will count down.</li> </ul>

Press Auto Reheat pad to indicate number or servings	Average Serving Size	Time
once	4-6 oz.	will vary depending on size and wattage of oven
twice	8 oz.	
3 times	12 oz.	
4 times	16 oz.	

**NOTES:** For best results, follow these recommendations:





- All foods must be previously cooked.
- Foods should always be covered loosely with plastic wrap, wax paper or casserole lid.
- All foods should have a covered stand time of 3 to 5 minutes.
- DO NOT reheat bread and pastry products using Auto Reheat. Use manual power and time instead.
- DO NOT reheat beverages.
- Times are based on an approximate serving size of 4 oz.
- A plate of food is normally 3-4 servings.

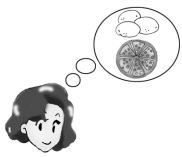


## Inverter Auto Cooking Feature (NN-S253)

These are tested and pre-timed (based on the power rating of this oven) for the quantity of food listed in the chart on page 19. Locale, power fluctuations and personal tastes are not taken into account. Should you prefer your food cooked differently, use power and time method shown on page 12.

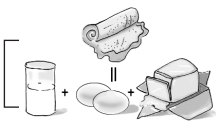
### Example: To cook a 10 oz. Frozen Entrées

<b>1.</b>  Press 3 times	<ul style="list-style-type: none"> <li>Press <b>Lunch/Snack</b>.</li> </ul>
<b>2.</b>  Press twice	<ul style="list-style-type: none"> <li>Press <b>Serving/Weight</b> until the desired serving/weight appears in the display window.</li> </ul>
<b>3.</b>  Optional	(see <b>More/Less</b> Feature) (☛ page 13)
<b>4.</b> 	<ul style="list-style-type: none"> <li>Press <b>Start</b>.              ►Cooking begins and the time will count down.</li> </ul>



# Inverter Auto Cooking Chart (NN-S253)

	Recipe	Serving/Weight	Hints
Breakfast	1. Oatmeal	1/2, 1 cup (40, 80 g)	Place inside a microwave safe serving bowl with no cover. Follow manufacturers' directions for preparation.
	2. Beverages	1, 2 cups (250, 500 ml)	This feature allows you to reheat 1 cup (250 ml) or 2 cups (500 ml) of room temperature beverages without setting power and time. <b>NOTE:</b> 1. Use a microwave safe cup. 2. Heated liquids can erupt if not mixed with air. Do not heat liquids in your microwave oven without stirring before and halfway through heating. 3. Care must be exercised not to overheat liquids when using the Beverage feature. It is programmed to give proper result when heating 1 cup (250 ml) or 2 cups (500 ml) of liquid, starting from room temperature. Overheating will cause an increased risk of scalding, or water eruption. Refer to page 1, item 18.
	3. Bacon (slice)	4 slices (3.2-4 oz) (90-110 g) 6 slices (4.8-5.8 oz) (135-165 g) 10 slices (8.1-9.5 oz) (230-270 g) 14 slices (11.6-13 oz) (330-370 g)	Place slices of bacon on a microwave safe dish. Cover with paper towel. Time may vary by brand and weight. If bacon is not cooked to your liking, continue to heat by manually adding more time.
Lunch/Snack	4. Soup	1, 2 cups (250, 500 ml)	Pour soup into a microwave safe serving bowl. Cover with lid or vented plastic wrap.
	5. Hot Dog	1, 2, 3, 4 pieces	Make 3 slits on each Hot Dog. Place Hot Dog on paper plate or microwave safe dish leaving space between each. Times may vary by size and manufacturer.
	6. Frozen Entrées	8, 10, 20, 32 oz. (225, 300, 600, 900 g)	Follow manufacturers' directions for preparation of 8 and 10 oz. sizes. For larger sized entrées, where the directions state for the entire film cover to be removed, do not vent or remove film cover to ensure complete cooking. After 2 beeps, stir or rearrange. Be careful when removing the film cover after cooking. Remove away from you to avoid steam burns. If additional time is needed, continue to cook manually.
	7. Frozen Pizza (single)	4, 8 oz. (110, 225 g)	Follow manufacturers' directions for preparation.
	8. Frozen Pocket Sandwich	1 sandwich (4.5 oz.) (128 g)	Follow manufacturer's directions for preparation.
Side Dish	9. Potatoes	1, 2, 3, 4 pieces (6 to 8 oz. each) (170 - 225 g)	Pierce each potato with a fork 6 times spacing around surface. Place potato or potatoes around the edge of paper-towel-lined glass tray the edge of paper-towel-lined glass tray (Turntable), at least 1 inch (2.5 cm) apart. Do not cover. Let stand 5 minutes to complete cooking.
	10. Fresh Vegetables	4, 8, 12, 16 oz. (110, 225, 340, 450 g)	All pieces should be the same size. Wash thoroughly and 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.
	11. Frozen Vegetables	6, 10, 16 oz. (170, 300, 450 g)	Wash thoroughly and add 1 tbsp. of water per 1/2 cup of vegetables. Do not salt/butter until after cooking. (Not suitable for vegetables in butter or sauce.) After 2 beeps, stir or rearrange.
	12. Rice	1/2, 1, 1 1/2 cups (125, 250, 375 ml)	Place rice with hot water in a microwave safe casserole dish. Cover loosely with lid or vented plastic wrap. Let stand 5 to 10 minutes before serving.
Dinner	13. Frozen Dinners	11, 15 oz. (300, 450 g)	Follow manufactures' directions for covering or removing covers. Do not use frozen foods packaged in foil trays.
	14. Pasta	2, 4, 6, 8 oz. (56, 110, 170, 225 g)	Place pasta with hot water in a microwave safe casserole dish. Cover with lid or vented plastic wrap.
	15. Fish Fillets	4, 8, 12, 16 oz. (110, 225, 340, 450 g)	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 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.

Cook, covered with vented plastic wrap, using OMELET selection. 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

**Approx. cooking time:** 4 minutes.

**NOTE:** Double ingredients for a 4 egg Omelet.

## CASSEROLE

### Shepherd's Pie

- 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
- 8 oz. (1/2 lb dry weight) macaroni, cooked and drained
- 1/3 cup bread crumbs
- 1 teaspoon paprika

In a 2-Qt. casserole, 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

- 1 pound lean ground beef
- 1 small onion, chopped
- 1/2 green bell pepper, chopped
- 1 cup chopped celery
- 2 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 8-10 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 6 oz. can tuna, drained and flaked
- 4 cups cooked and drained noodles
- 1 10 3/4 oz. can condensed cream of mushroom soup
- 1 4 oz. can mushroom pieces and stems, drained
- 1 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.


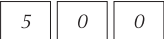

**Yield:** 4-6 servings




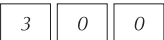



# Timer Feature

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:

<b>Example: To count down 5 minutes.</b>	
1. 	• Press <b>Timer</b> .
2. 	• Set desired amount of time using number pads. (up to 99 minutes and 99 seconds).
3. 	• Press <b>Start</b> . ▶ Time will count down without oven operating.


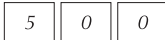

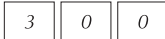

## To Set Stand Time:

<b>Example: To cook at P6 power for 3 minutes, with stand time of 5 minutes.</b>	
1.  Press 5 times	• Enter the desired <b>Power Level</b> (see page 12 for directions).
2. 	Set desired cooking time using number pads.
3. 	• Press <b>Timer</b> .
4. 	• Set desired amount of Stand Time using number pads. (up to 99 minutes and 99 seconds)
5. 	• Press <b>Start</b> . ▶ 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:

<b>Example: To delay the start of cooking for 5 minutes, and cook at P6 power for 3 minutes.</b>	
1. 	• Press <b>Timer</b> .
2. 	• Enter desired amount of delay time using number pads. (up to 99 minutes and 99 seconds)
3.  Press 5 times	• Enter the desired <b>Power Level</b> (see page 12 for directions).
4. 	Set desired cooking time using number pads.
5. 	• Press <b>Start</b> . ▶ 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.

# Operation

## How to Use the Shelf When Microwaving (only for NN-S263)

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 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.



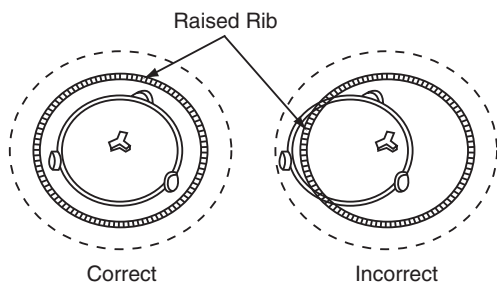
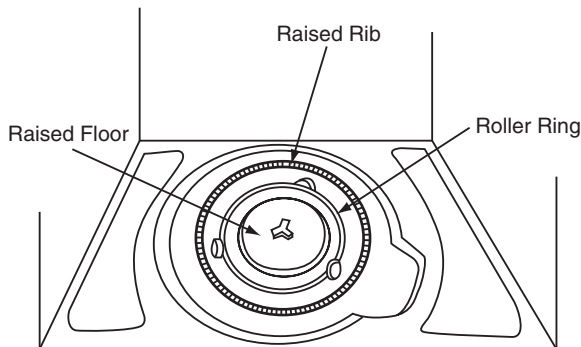
### Caution:

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

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

## Setting the Roller Ring

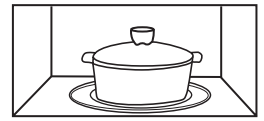
Before using the microwave oven, be sure the Roller Ring is properly installed. Incorrect installation can result in improper cooking, damage to the oven or spillage of food. The Roller Ring must be located on the surface between the raised rib and raised floor.



## For best cooking results

### 1-Level cooking

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

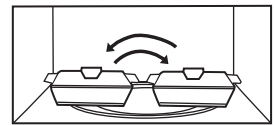


(Turntable On)  
For best results

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.

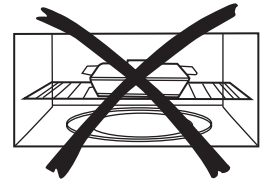


(Turntable Off)  
Rotate dish  
halfway through cooking



(Turntable Off)  
Interchange dishes  
halfway through cooking

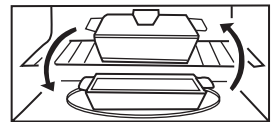
For best cooking results, remove the shelf unless you are reheating on more than one level.



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 / Auto Reheat / Inverter Auto Cooking.





## Microwave Shortcuts

FOOD	POWER	TIME (in mins.)	DIRECTIONS
To separate refrigerated <b>Bacon</b> , 1 pound (450 g)	P10 (High)	30 sec.	Remove wrapper and place in microwave safe dish. After heating, use a plastic spatula to separate slices.
To soften <b>Brown Sugar</b> 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 <b>Butter</b> , 1 stick, 1/4 pound (110 g)	P3 (MED-LOW)	1	Remove wrapper and place butter in a microwave safe dish.
To melt refrigerated <b>Butter</b> , 1 stick, 1/4 pound (110 g)	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 <b>Chocolate</b> , 1 square, 1 oz. (28 g)	P6 (MEDIUM)	1 - 1 1/2	Remove wrapper and place chocolate in a microwave safe dish. After heating, stir until completely melted. <i>Note: Chocolate holds its shape even when softened.</i>
To melt <b>Chocolate</b> , 1/2 cup (125 ml) chips	P6 (MEDIUM)	1 - 1 1/2	
To toast <b>Coconut</b> , 1/2 cup (125 ml)	P10 (High)	1	Place in a microwave safe dish. Stir every 30 seconds.
To soften <b>Cream Cheese</b> , 8 oz. (225 g)	P3 (MED-LOW)	1 - 2	Remove wrapper and place in a microwave safe bowl.
To brown <b>Ground Beef</b> , 1 pound (450 g)	P10 (High)	4 - 5	Crumble into a microwave safe colander set into another dish. Cover with plastic wrap. Stir twice. Drain grease.
To cook <b>Vegetables</b> , Fresh (1/2 lb) (225 g)	P8	3 1/2 - 4	All pieces should be the same size. Wash thoroughly and 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 (10 oz) (285 g)	P8	3 1/2 - 4	
Canned (15 oz) (430 g)	P8	3 1/2 - 4	



# Microwave Shortcuts

(continued)

FOOD	POWER	TIME (in mins.)	DIRECTIONS
To cook baked <b>Potato</b> , (6 - 8 oz. each) (170 - 225 g) 1 2	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 1 inch (2.5 cm) apart. Do not cover. Let stand 5 minutes to complete cooking.
To steam <b>Hand Towels</b> - 4	P10 (High)	20 - 30 sec.	Soak in water, then wring out excess. Place on a microwave safe dish. Heat. Present immediately.
To soften <b>Ice Cream</b> , ½ gallon (2 L)	P3 (MED-LOW)	1 - 1½	Check often to prevent melting.
Cup of liquid <b>To boil water, broth, etc.</b> 1 cup, 8 oz. (250 ml) 2 cups, 16 oz. (500 ml)	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 <b>To warm Beverage,</b> 1 cup, 8 oz. (250 ml) 2 cups, 16 oz. (500 ml)	P7 (MED-HIGH)	2 - 3 4 - 5	
To roast <b>Nuts</b> , 1½ cups (375 ml)	P10 (High)	4 - 5	Spread nuts into a 9-inch (230 mm) microwave safe pie plate. Stir occasionally.
To toast <b>Sesame Seeds</b> , ¼ cup (60 ml)	P10 (High)	3 - 5	Place in a small microwave safe bowl. Stir twice.
To skin <b>Tomatoes</b> , (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 <b>Cooking Odors</b> ,	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

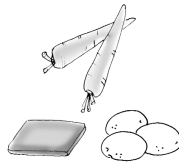
### Bone and Fat

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 centers be very careful. Certain foods have centers made with sugar, water, or fat and these centers 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 center.



### 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 center 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 SCRAMBLED eggs is safe.



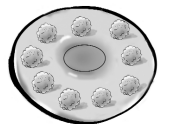
### Browning

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.





## 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 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 center and the less cooked center 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 center and pieces from the center 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 insure even cooking, these food 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 5°F to 15°F (3°C to 8°C), 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 center 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 to the United States Department of Agriculture's recommended temperatures.

TEMP	FOOD
160°F	...for fresh pork, ground meat, boneless white poultry, fish, seafood, egg dishes and frozen prepared food.
165°F	...for leftover, ready-to-reheat refrigerated, and deli and carryout "fresh" food.
170°F	...white meat of poultry.
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. If outlet is inaccessible, leave oven door open while cleaning. Do not attempt to clean the Oven Light or Cooktop/Night Light compartment.

## AFTER CLEANING:

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

### Inside of the oven:

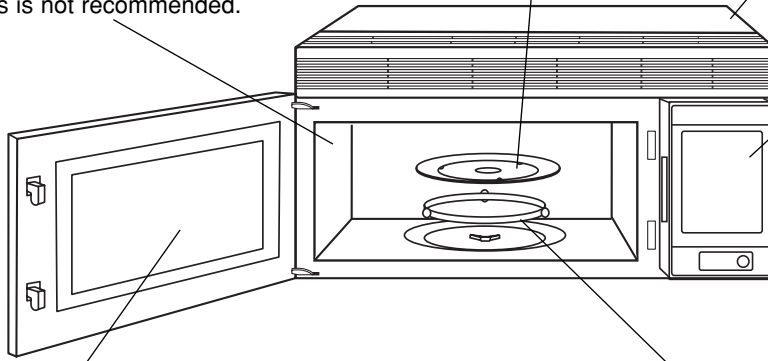
Wipe with a damp cloth after using, mild detergent may be used if needed. The use of harsh detergents or abrasives is not recommended.

### 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:

\* Covered with a removable protective film to prevent scratches during shipping. Small bubbles may appear under this film. (Hint - To remove film, apply masking or clear tape to an exposed corner and pull gently.)  
\* If the Control Panel becomes wet, clean it with a soft dry cloth. Do not use harsh detergents or abrasives on the Control Panel.

### 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 (NN-S263 only)

Clean with a soft damp cloth to avoid scratches.

**IT IS IMPORTANT TO KEEP THE OVEN CLEAN. FOOD RESIDUE AND CONDENSATION MAY CAUSE RUSTING OR ARCING AND DAMAGE TO THE OVEN.**

## ORDER FORM

### DESCRIPTION

Instructions / Operating Manual (this book)  
Glass Tray  
Shelf (Metal Rack: NN-S263 only)  
Roller Ring Assembly  
Oven Light, Cooktop Light

### PART NUMBER

F00035V10AP  
A06015H00AP  
F06025H00AP  
F290D5Q00AP  
F60305H00AP

For pricing quotes, call or write the Parts & Literature Department at the phone or address listed below. Please have your credit card information readily available.

*Shipping & handling are not included. Price & availability subject to change. Sorry, no COD's.*

PANASONIC SERVICES COMPANY  
20421 84th Avenue South  
Kent, WA 98032

(800) 833-9626 - Phone  
(800) 237-9080 - FAX

You can purchase parts, accessories or locate your nearest service center by visiting our Web Site:  
Web Site: <http://www.Panasonic.com>

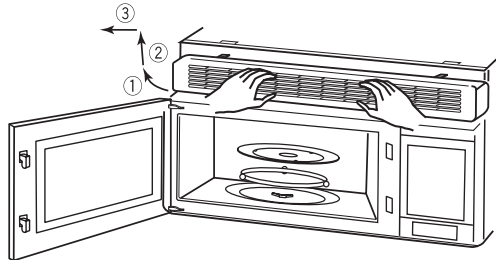


# Care and Cleaning of Your Microwave Oven *(continued)*

## Cleaning Vent Grille (Oven Air Vent)

Vent Grille can be removed and cleaned.

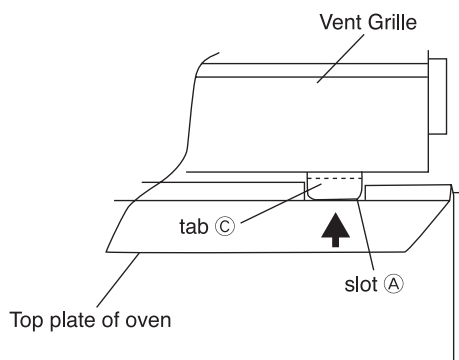
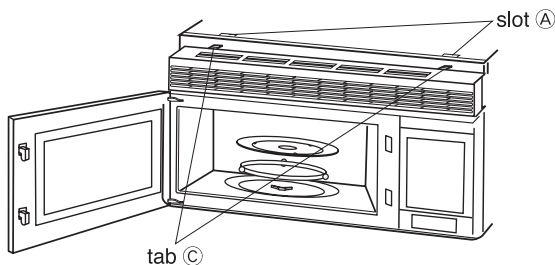
1. Open the oven door.
2. ① Pull the bottom of Vent Grille and ② raise the Vent Grille, ③ then pull out.



3. Soak Vent Grille in hot water with mild detergent. Wipe with a soft cloth after rinsing well. Do not use ammonia or a dishwasher.

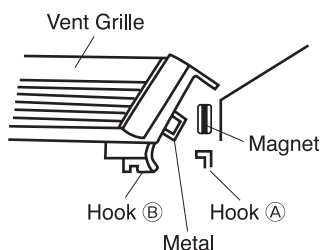
## Installing Vent Grille

1. Open the door.
2. Insert two tabs ③ of Vent Grille into slots ① at the top of the oven.



3. Push Vent Grille down to attach the metal to magnet, then push forward to insert hook ① into the slit of hook ②.

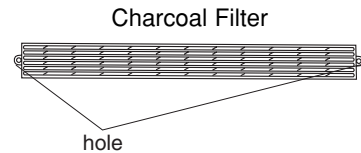
**Be sure that tabs ③ at the top and hooks ② at the bottom of Vent Grille are positioned correctly to prevent Vent Grille from falling off.**



## Charcoal Filter Attachment/Replacement (Optional)

If your oven is vented inside the kitchen, the optional charcoal filter should be attached and replaced every 6 to 12 months, or more often if necessary. **The charcoal filter cannot be cleaned. To order a charcoal filter, contact your local Panasonic dealer.**

1. Remove the Vent Grille. (See "Cleaning Vent Grille".)
2. Install Charcoal Filter and adjust two holes. Secure with 2 screws provided.

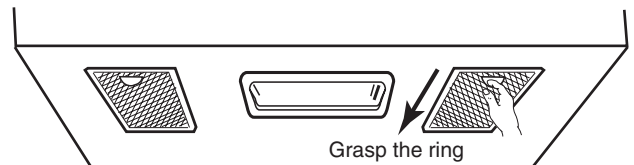


3. Reinstall the Vent Grille. (See "Installing Vent Grille".)

## Cleaning Grease Filters

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

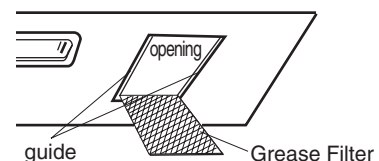
1. Grasp the "metal ring" on the Grease Filter. Slide the Grease Filter to the rear of oven.



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.

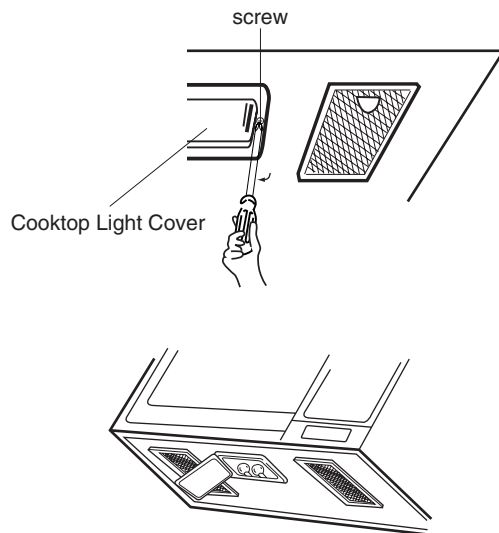


# Care and Cleaning of Your Microwave Oven *(continued)*

## Cooktop/Night Light Replacement

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

1. Unplug microwave oven or disconnect power.
2. Loosen the screw to open the Cooktop Light Cover.  
(Be careful not to lose the screw.)
3. Replace the old bulb with a new one.



(use 115-125 V, 30 W bulb)

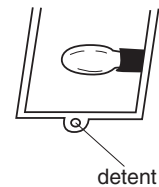
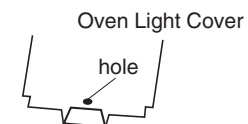
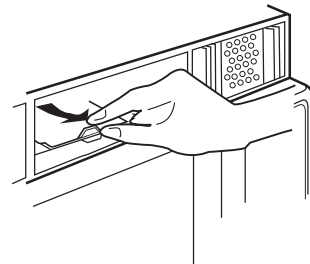
If this bulb is not available locally, contact your local Panasonic dealer. Part number is F60305H00AP.

4. Reinstall the Cooktop Light Cover.

## 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 "Cleaning Vent Grille/Charcoal Filter attachment/replacement on page 28).
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 115-125 V, 30 W bulb)  
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 area adjacent, 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.

### PROBLEM

### POSSIBLE CAUSE

### REMEDY

Oven will not turn on.	<p>→ The oven is not plugged in securely.</p> <p>→ Circuit breaker or fuse is tripped or blown.</p> <p>→ There is a problem with the outlet.</p>	<p>Remove plug from outlet, wait 10 seconds and re-insert.</p> <p>Reset circuit breaker or replace fuse.</p> <p>Plug another appliance into the outlet to check if it is working.</p>
Oven will not start cooking.	<p>→ The door is not closed completely.</p> <p>→ <b>Start</b> Pad was not pressed after programming.</p> <p>→ Another program is already entered into the oven.</p> <p>→ The program is not correct.</p> <p>→ <b>Stop/Reset</b> Pad has been pressed accidentally.</p>	<p>Close the oven door securely.</p> <p>Press <b>Start</b> Pad.</p> <p>Press <b>Stop/Reset</b> Pad to cancel the previous program and enter new program.</p> <p>Program again according to the Operating Instructions.</p> <p>Program oven again.</p>
The Glass Tray wobbles.	<p>→ The Glass Tray is not positioned properly on the Roller Ring or there is food under the Roller Ring.</p>	<p>Take out Glass Tray and Roller Ring. Wipe with a damp cloth and reset Roller Ring and Glass Tray properly.</p>
When the oven is operating, there is noise coming from the glass tray.	<p>→ The Roller Ring and oven bottom are dirty.</p>	<p>Clean these parts according to <b>Care and Cleaning of your Microwave Oven</b> (see page 27).</p>
The word "Child" appears in the <b>Display Window</b> .	<p>→ The CHILD LOCK was activated by pressing <b>Function</b> pad and selecting "CHILD LOCK ON".</p>	<p>Deactivate LOCK by pressing <b>Function</b> pad, touching number 5 and selecting "CHILD LOCK OFF". (see page 10)</p>
The word "DEMO MODE" appears on the <b>Display Window</b> .	<p>→ Function Pad was pressed and selected "DEMO MODE ON".</p>	<p>Deactivate mode by pressing function pad, touching number and selecting "DEMO OFF". (see page 10)</p>



# Limited Warranty & Customer Services Directory

PANASONIC CONSUMER ELECTRONICS COMPANY,  
DIVISION OF MATSUSHITA ELECTRIC  
CORPORATION OF AMERICA  
One Panasonic Way  
Secaucus, New Jersey 07094

PANASONIC SALES COMPANY,  
DIVISION OF MATSUSHITA  
ELECTRIC OF PUERTO RICO, INC.,  
Ave. 65 de Infanteria, Km. 9.5  
San Gabriel Industrial Park  
Carolina, Puerto Rico 00985

## Panasonic Microwave Oven Product Limited Warranty

### Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

	<b>PARTS</b>	<b>LABOR</b>
<b>ALL PARTS (EXCEPT MAGNETRON TUBE)</b>	<b>1 (ONE) YEAR</b>	<b>1 (ONE) YEAR</b>
<b>MAGNETRON TUBE</b>	<b>5 (FIVE) YEAR</b>	<b>1 (ONE) YEAR</b>

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry-in or mail-in your product during the warranty period. This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

### Carry-In or Mail-In Service

For Carry-In or Mail-In Service in the United States call 1-800-211-PANA(7262) or visit Panasonic Web Site:  
<http://www.panasonic.com>

For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.

### Limited Warranty Limits And Exclusions

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER glass, plastic parts, temperature probes(if included) and 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 the warrantor, 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, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Service center or other Authorized Servicer, or damage that is attributable to acts of God.

**THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY.** (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, or travel to and from the servicer. The items listed are not exclusive, but are for illustration only.) **ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have others rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Service center. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

**PARTS AND SERVICE WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.**

### Customer Services Directory

**For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact: 1-800-211-PANA (7262), Monday-Friday 9 am-9 pm; Saturday-Sunday 9 am-7 pm, EST.**

**Web Site: <http://www.panasonic.com>**

**you can purchase parts, accessories or locate your nearest service center by visiting our Web Site.**

#### Accessory Purchases:

1-800-332-5368 (Customer Orders Only)

Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032

(6 am to 5 pm Monday-Friday; 6 am to 10:30 am Saturday; PST)

(Visa, MasterCard, Discover Card, American Express, Check)

































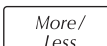










#### Service in Puerto Rico

**Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/Factory Service center:**


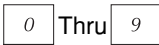


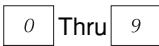












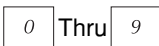




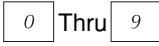
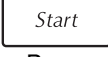




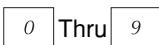








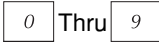






**Ave. 65 de Infanteria, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985**

**Phone (787) 750-4300 Fax (787) 768-2910**

# Quick Guide to Operation (NN-S263)

Feature	How to Operate							
To Use <b>Function</b> (☛ page 10)	 Press.	→	0 Thru 9	→	1, 2 or 3	Select.		
To Set <b>Clock</b> (☛ page 11)	 Press once.	→	0 Thru 9	→	 Press once.			
To Set <b>Light On/Night/Off</b> (☛ page 11)	<b>Bright Light</b>  Press once.		<b>Night Light</b>  Press twice.		<b>Turn off the Light</b>  Press three times.			
To Set <b>Turntable On/Off</b> (☛ page 11)	To Set Turntable on  Press once.		To Set Turntable off  Press twice.					
To Set <b>Fan High/Low/Off</b> (☛ page 11)	To turn on at High Speed  Press once.		To turn on at Low Speed  Press twice.		To turn off  Press three times.			
To Set <b>Turbo Fan On/Off</b> (☛ page 11)	To turn on  Press once.		To turn off  Press twice.					
To Use <b>Auto Off 1/3/5/10</b> (☛ page 11)	To turn on for one minute  Press once.	To turn on for 3 minutes  Press twice.	To turn on for 5 minutes  Press three times.	To turn on for 10 minutes  Press four times.				
To Set <b>Power and Time</b> (☛ page 12)	 Press to select Power Level.	→	0 Thru 9	→	 Press.			
To Cook Using <b>Quick Min</b> (☛ page 12)	 (up to 10 min)	→	 Press.					
To use <b>Keep Warm</b> (☛ page 12)	 Press once.	→	0 Thru 9	→	 Press.			
To Cook using <b>Popcorn</b> (☛ page 13)	 Select weight.	→	 Optional.	→	 Press.			
To use <b>Beverages</b> (☛ page 13)	 Press to select servings.	→	 Optional.	→	 Press.			
To Defrost using <b>Inverter Turbo Defrost</b> (☛ page 14)	 Press.	→	0 Thru 9	→	 Press.			
To Reheat Using <b>Sensor Reheat</b> (☛ page 16)	 Press.	→	 Optional.	→	 Press.			
To Cook Using <b>Sensor Cook</b> (☛ page 16)	eg.  Select category.	→	 Optional.	→	 Press.			
To Use as a <b>Kitchen Timer</b> (☛ page 21)	 Press once.	→	0 Thru 9	→	 Press.			
To Set <b>Stand Time</b> (☛ page 21)	(Input up to 4-stage cooking programs.)		 Press once.	→	0 Thru 9	→	 Press.	
To Set <b>Delay Start</b> (☛ page 21)	 Press once.	→	0 Thru 9	→	(Input up to 4-stage cooking programs.)		→	 Press.

# Quick Guide to Operation (NN-S253)

Feature	How to Operate		
To Use <b>Function</b> (☛ page 10)	 Press.	→ 	→  Select.
To Set <b>Clock</b> (☛ page 11)	 Press once.	→ 	→  Press once.
To Set <b>Light On/Night/Off</b> (☛ page 11)	<b>Bright Light</b>  Press once.	<b>Night Light</b>  Press twice.	<b>Turn off the Light</b>  Press three times.
To Set <b>Turntable On/Off</b> (☛ page 11)	To Set Turntable on  Press once.	To Set Turntable off  Press twice.	
To Set <b>Fan High/Low/Off</b> (☛ page 11)	To turn on at High Speed  Press once.	To turn on at Low Speed  Press twice.	To turn off  Press three times.
To Set <b>Turbo Fan On/Off</b> (☛ page 11)	To turn on  Press once.	To turn off  Press twice.	
To Set <b>Power and Time</b> (☛ page 12)	 Press to select Power Level.	→ 	→  Press.
To Cook Using <b>Quick Min</b> (☛ page 12)	 (up to 10 min)	→  Press.	
To use <b>Keep Warm</b> (☛ page 12)	 Press once.	→ 	→  Press.
To Cook using <b>Popcorn</b> (☛ page 13)	 Select weight.	→  Optional.	→  Press.
To Defrost using <b>Inverter Turbo Defrost</b> (☛ page 14)	 Press.	→ 	→  Press.
To Reheat using <b>Auto Reheat</b> (☛ page 18)	 Select desired servings.	→  Optional.	→  Press.
To Cook using <b>Inverter Auto Cooking</b> (☛ page 18)	eg.  Select category.	→  Select the weight.	→  Optional.
To Use as a <b>Kitchen Timer</b> (☛ page 21)	 Press once.	→ 	→  Press.
To Set <b>Stand Time</b> (☛ page 21)	(Input up to 4-stage cooking programs.)	→ 	→ 
To Set <b>Delay Start</b> (☛ page 21)	 Press once.	→ 	→ (Input up to 4-stage cooking programs.) →  Press.



# Specifications

	NN-S263	NN-S253	
Power Source:	120 V, 60 Hz		
Power Consumption:	12.2 Amps, 1,430 W		
Cooking Power:*	1,200 W		
Outside Dimensions (H x W x D):	16 <sup>7</sup> / <sub>16</sub> " x 29 <sup>7</sup> / <sub>8</sub> " x 15" (418 mm x 759 mm x 381 mm)		
Oven Cavity Dimensions (H x W x D):	9 <sup>1</sup> / <sub>2</sub> " x 23 <sup>1</sup> / <sub>4</sub> " x 14 <sup>7</sup> / <sub>16</sub> " (242 mm x 591 mm x 367 mm)		
Charcoal Filter (option):	NN-CF208P		
Operation Frequency:	2,450 MHz		
Ventilation Power:	Turbo 300 CFM	High 180 CFM	Low 140 CFM
Net Weight:	Approx. 55 lbs. (25.0 kg)		Approx. 53 lbs. (24.0 kg)

\*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 back side of the oven. 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** \_\_\_\_\_

**Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America**  
One Panasonic Way  
Secaucus, New Jersey 07094

**Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. ("PSC")**  
Ave. 65 de Infanteria, Km. 9.5  
San Gabriel Industrial Park,  
Carolina, Puerto Rico 00985