

**Panasonic**<sup>®</sup>

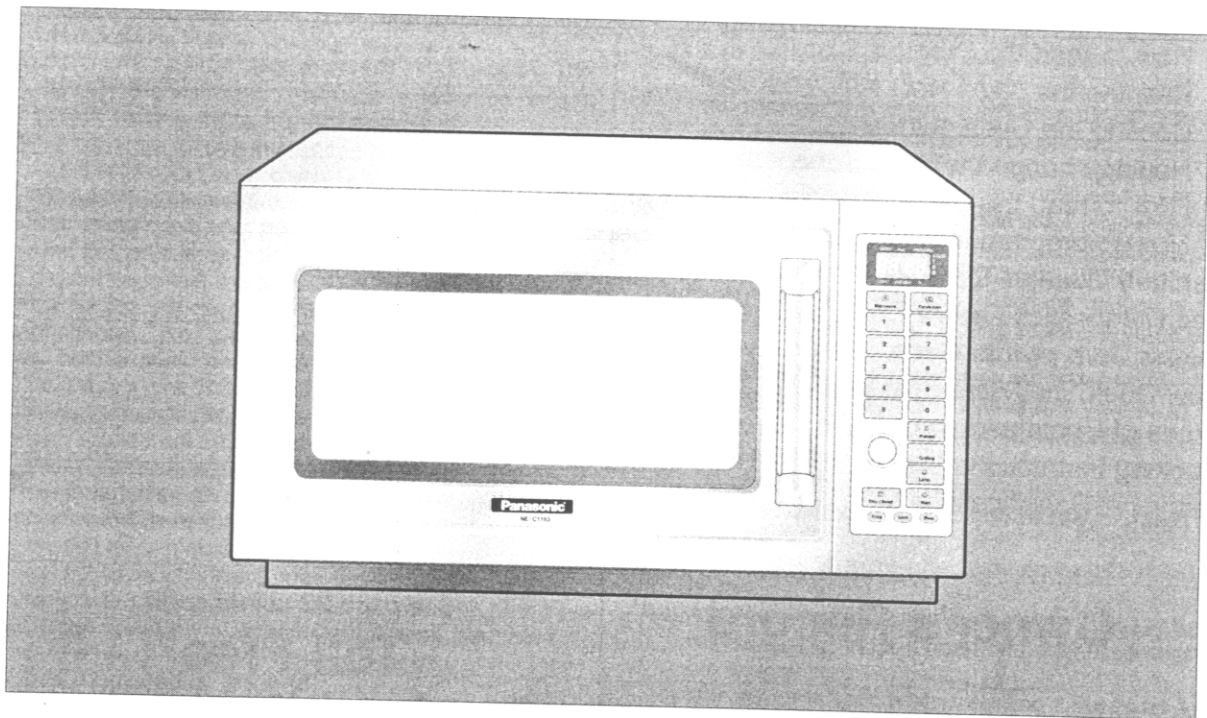
# Operating Instructions

## COMBI WAVE<sup>™</sup>

Commercial Microwave Convection Oven

NE-C1163V/W

NE-C1173V/W



Please read these instructions completely before operating this oven.

**Before Calling for Service:**

If failure code "F\*\*" appears in the display, unplug oven and wait 1 minute before reconnecting. If normal operation does not resume, call the service agent with the information of failure code. (See page 23.)

# 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. Under normal conditions, the oven will not operate with the door open.
- (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 closes properly and that there is no damage to the:
- (1) door (bent)
  - (2) hinges and latches (broken or loose)
  - (3) door seals and sealing surfaces.
- (d) The oven should not be adjusted or repaired by anyone except properly qualified service personnel. (See page 2.)

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 4.
4. As with any cooking appliance, **DO NOT** leave oven unattended while in use.
5. Install or locate this appliance only in accordance with the installation instructions found on page 4, 5.
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.

**⚠ IMPORTANT SAFETY INSTRUCTIONS**  
(continued)

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 glass tray. It can crack, cause injury or damage to the oven.
20. Oversized foods or oversized metal utensils should not be inserted in a microwave/toaster oven as they may create a fire or risk of electric shock.
21. Do not clean with metal scouring pads. Pieces can burn off the pad and touch electrical parts involving a risk of electric shock.
22. Do not use paper products when appliance is operated in the toaster mode.
23. Do not store any materials, other than manufacturer's recommended accessories in this oven when not in use.
24. Do not cover racks or any other part of the oven with metal foil. This will cause overheating of the oven.
25. The outside of microwave oven becomes very hot when the convection and combination stages are being used. With the exception of the door handle and control panel, **DO NOT** touch the outside surface of the microwave oven, including the front door, while the convection and combination stages are being used.

**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, retain all packing material, and examine the oven for any damages such as dents, broken door latches or cracks in the door. Notify supplier immediately if unit is damaged. DO NOT install if unit is damaged.

**Note:** The appliance should be inspected for damage to the door seals and door seal areas. If these areas are damaged, the appliance should not be operated, until it has been repaired by a service technician trained by the manufacturer.

## Removal of Protective Film

A protective film is used to prevent scratching of the outer case during transportation. Remove this film before installation or use.

## Placement of the Oven

Oven must be placed on a flat, stable surface. For proper operation, the oven must have sufficient air flow. A gap of at least 2 inches must be available at the right, left sides and back wall of the oven. A minimum space of 8 inches must be left above the oven and the 2 exhaust vents at the rear.

There should be no gap between the table surface and the bottom of the oven. (See instructions "Sanitary Counter Top Seal" on page 23.) Do not place the oven in a hot or damp area, i.e. near a stove, sink or directly above heat lamps on a serving line. There is a possibility of a small amount of interference with weak broadcast signals if the microwave oven is located too close to a radio or TV.

## Air vents

This oven requires free airflow at the back for maximum cooling efficiency.  
Do not block the air vents.

## Maximum room temperature

Do not operate the oven when the room temperature is higher than 105 F and/or the humidity is higher than 90%. Free airflow around the oven is important.

## Outdoor use

Do not use this oven outdoors.

## Shelves

Do not place the oven directly above or beside a gas or electric range, the oven may be damaged. It is dangerous to position this oven on a shelf which is so high that food and accessories cannot be safely inserted or removed by the user.

## Stacking

DO NOT attempt to stack these ovens.

## Grounding Instructions

This oven must be electrically 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. The 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.

**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 connected.

Do not use an extension cord. If the power supply cord is too short, have a qualified electrician or serviceman install an outlet near the appliance.

## Wiring Requirements

No other appliance should share the circuit with the microwave convection oven. If it does, the branch circuit fuse may overload and either cause the oven to produce lower power output or blow the fuse.

1. This oven must be operated on a dedicated, separate 60 Hz GROUNDED CIRCUIT - minimum 20 amps.
2. This oven is built to operate only on a 208 V power supply. Using a power supply voltage higher than 208 V is dangerous and may result in overheating of the electrical components, thus shortening their life expectancy or possibly causing a fire or another incident.

Panasonic is NOT responsible for any damages resulting from the use of the oven with any voltage other than specified.

NEMA#  
6-20P



208 V  
Grounded Outlet  
NEMA# 6-20R

# Caution

## Before Use

Before using CONVECTION or COMBINATION function for the first time, operate this oven without food on Convection 500 F for 20 minutes, removing all accessories from the oven. This will cause the oil that is used for rust protection to be burned off.

## Operation when empty

**DO NOT** operate the oven empty in the microwave mode. The microwave energy will reflect continuously throughout the oven causing overheating, if food or water is not present to absorb energy. This could damage the oven and result in a risk of fire.

## Service

**DO NOT** tamper with or make any adjustments or repairs to door, control panel housing, safety interlock switches or any other part of the oven.

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

## Smoke/Fire

If a fire occurs in the oven, press the Stop/Reset Pad and **KEEP THE DOOR CLOSED**. Disconnect the power cord, or shut off the power at the fuse or circuit breaker panel.

## Hot Surfaces

Exterior oven surfaces, including air vents on the cabinet and the oven door will get hot during use. (Convection and Combination) Take care when opening or closing door and when inserting or removing food and accessories. The oven has heaters situated in the back of the oven. After use, the ceiling, walls and floor will be very hot.

## Fan Motor Operation

After using MICROWAVE, CONVECTION and COMBINATION, the fan motor always rotates for approx. 5 minutes to cool the electric components. This is normal and you can take out food even though the fan motor is operating.

## Storage of Accessories

When the oven is not being used, do not store any objects other than oven accessories inside the oven in case it is accidentally turned on. In case of electronic failure, the oven can only be turned off at the wall socket or breaker.

## Interference

There is a possibility of a small amount of interference with weak broadcast signals if the oven is too close to a radio or TV.

## General Use

**DO NOT** dry clothes, newspapers or other materials in oven, or use newspapers or paper bags for cooking. Fire could result.

**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 sparks, and result in fires when used.

**DO NOT** hit or strike control panel. Damage to controls may occur. Fire could result.

**POT HOLDERS** should always be used when removing items from the oven. Heat is transferred from the **HOT** food to the cooking container.

**DO NOT** store flammable materials next to, on top of, or in the oven. These could be fire hazards.

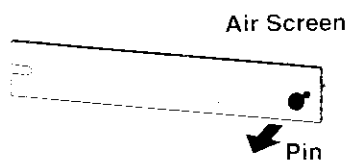
**DO NOT** use metal utensils in oven except when recommended by microwave food manufacturers or recipe requires metal utensils in convection or combination mode. Heat food in containers made of heat resistant glass or china if possible.

**After the oven has been used for some time, the internal surface of the cavity may become permanently dark. Please note this condition is normal and it does not affect the oven's performance.**

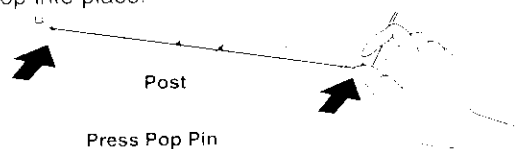
## How to install the Air Screen

Before using the oven, please place the Air Screens to the front bottom skirt.

1. Pull the Pop Pin straight out.



2. Align the screen with the center Post, hold the front of the Pop Pin forward, and insert the back of the pin into its hole. Press the front of the pin and it will pop into place.



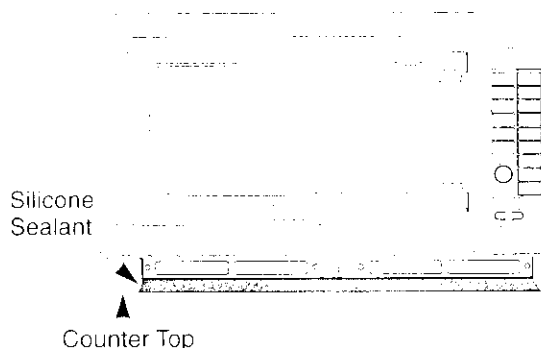
# Sanitary Counter Top Seal

When oven is placed on a counter top, its base must be sealed in accordance with N.S.F.

Standards as per the following instructions.

1. Oven should be located on a level counter top surface. Complete the electrical connections.
2. Thoroughly clean and sanitize the oven bottom perimeter and the counter top area around the oven perimeter.
3. Remove the Air Screens from the front of the oven before applying high temp. silicone.
4. Lay generous bead of high temp. silicone seal around the entire perimeter of the base of each oven unit.
5. Smooth the silicone seal into the crevice with your finger or tool to provide a cove seal.

**Note:** DO NOT FORGET to re-install the Air Screens after applying high temp. silicone.



## Self Diagnostics Failure Code Explanation

Your oven is equipped with a Self Diagnostic Failure Code System: This means the oven monitors its own operation and will show a Failure Code in the display window in the unlikely event of a malfunction.

If a Failure Code appears in the display window, follow these steps:

(It will appear as an "F" then a two digit number)

eg.

F 01

1. Close the door and unplug the oven at the main socket. Ensure all air vents are clear.
2. Leave 1 minute and then reconnect the oven at the main socket.
3. Open the door and place food or a jug of water in the cavity, close the door.
4. Try the same function that had been in operation prior to the appearance of the Failure Code in the display window.

If the Failure Code appears again, then contact the dealer from whom you purchased the oven.

**What to do when a failure code appears:**

CODE	CAUSE	WHAT TO DO
F01	<ul style="list-style-type: none"> <li>• Overcooked food.</li> <li>• Temperature of exhaust air too high.</li> </ul>	<ul style="list-style-type: none"> <li>• Unplug the appliance to stop beeping.</li> <li>• Wait for appliance to cool down to reset operation.</li> <li>• If food ignites, do not open the door.</li> <li>• If normal operation does not resume, call the service agent with information of failure code.</li> </ul>
F05	<ul style="list-style-type: none"> <li>• Defective Memory IC.</li> </ul>	<ul style="list-style-type: none"> <li>• Unplug the appliance and wait more than 1 minute and reconnect.</li> </ul>
F30	<ul style="list-style-type: none"> <li>• Defective thermistor circuit.</li> </ul>	<ul style="list-style-type: none"> <li>• If normal operation does not resume, call the service agent with information of failure code.</li> </ul>
F44	<ul style="list-style-type: none"> <li>• Defective control panel.</li> </ul>	<ul style="list-style-type: none"> <li>• Check line frequency and reconnect to the right power source.</li> </ul>
F09	<ul style="list-style-type: none"> <li>• Incoming line frequency is not matched.</li> </ul>	<ul style="list-style-type: none"> <li>• Check line frequency and reconnect to the right power source.</li> </ul>

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# Taking Care of Your Oven

It is essential that you follow these points to get the maximum use from your oven. Microwaves are attracted to moisture and grease, therefore a dirty oven does not cook EFFICIENTLY.

**Caution:** Do not clean this oven with any product that is labeled as containing corrosive chemicals.

**The heating of corrosive chemicals in this oven may cause microwave radiation leaks.**  
DO NOT clean this oven by spraying with water.

## 1. Before Cleaning

Unplug the oven at the socket.

## 2. Door Seals

Pay special attention to cleaning the door seals and door seal areas.  
Regularly wipe the Drip Ledge to avoid a build up of moisture and grease.

## 3. Door

Keep the inside glass of the door clean by wiping regularly with a soft damp cloth. Small amounts of oven cleaner can be used—DO NOT SPRAY DIRECTLY onto door—spray onto a cloth and wipe oven. Do not use harsh detergents or abrasives.

## 4. Oven Walls

The walls should be wiped regularly with a soft damp cloth. Small amounts of oven cleaner can be used—DO NOT SPRAY DIRECTLY onto walls—spray onto a cloth and wipe.

**DO NOT ALLOW OVEN CLEANER NEAR THE HOLES IN THE WALL OF THE OVEN.** If corrosive cleaner gets behind the oven wall, your oven could be damaged. Do not allow cleaning liquids to seep into openings.

Excess grease can be softened for ease of cleaning by placing 500 - 800 ml of hot water in a microwave-safe bowl with a chopped fresh lemon. Heat on 100 % Power for 15 - 20 min. The moisture produced on the walls should be wiped with a soapy cloth.

## 5. Oven Floor

The wave guides are situated beneath the ceramic base of the oven. Any spills must therefore be wiped clean to ensure even heating. Do not use harsh detergents or abrasives.

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# Taking Care of Your Oven

## 6. Ceiling

Before cleaning, ensure oven has cooled to avoid burns. Wipe the ceiling regularly with a damp cloth to minimize build up of grease and smoke.

## 7. Control Panel

If the Control Panel becomes dirty, clean with a soft, dry cloth. Do not use harsh detergents or abrasives on Control Panel. Do not use a saturated cloth as the remaining moisture may damage the panel. When cleaning the Control Panel, keep the oven door open to prevent the oven from accidentally turning on. After cleaning, touch Stop/Reset Pad to clear display window.

## 8. Accessories

The accessories should be cleaned regularly to maximize efficiency of the oven.  
Wire Rack Shelf—This should be cleaned every day. Do not use harsh abrasives.

## 9. Shelf Supports

Remove the shelf supports and clean regularly. Do not forget to clean oven walls behind supports. If food splashes are not cleaned off from shelf supports they will be carbonized during further heating and may cause ARCING during microwave mode.

## 10. Replacement of the Oven Lamp

If the Oven Lamp burns out, it can be replaced by following these directions.

1. Unplug the oven.
2. Remove the screw and the Oven Lamp Cover which is located on the left side of the cabinet.
3. Replace the old bulb with a new one.  
(use 220/240 V, 25 W max., E-14 lamp.)
4. Reinstall the Oven Lamp Cover.

**Caution:** Remove the plug from the electrical socket before replacement of the Oven Lamp Bulb.



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# Taking Care of Your Oven

## 11. Cleaning the Air Screen

Clean the Air Screens occasionally according to the following instructions. Problems may occur with the oven if the screens become clogged with dirt or dust.\*

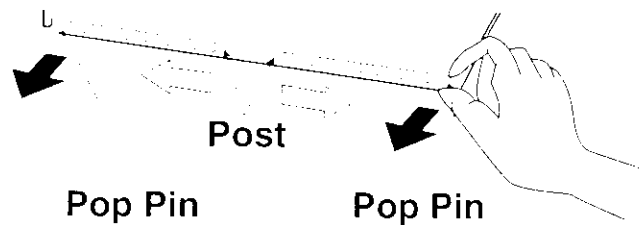
1. Remove the right Air Screen from the front bottom skirt by pulling the Right Pop Pin straight out. Then slide the screen to the right and lift it off the post at the center.

Remove the left Air Screen the same as right one.

2. Wash the screens with soap and water.

3. To replace, align the screen with the center post, hold the front of the Pop Pin forward, and insert the back of the pin into its hole. Press the front of the pin and it will pop into place. Be sure to replace the Air Screens before using the oven.

\*If the Air Screen becomes clogged with dust or grease, it may cause an overheating problem in the oven.



## 12. Cleaning Service Schedule

For the Exhaust Duct, Heater Unit and Oil Pan inside the oven, it is recommended to schedule Cleaning Service by an authorized service person every 6 months, or when a heavy grease buildup is seen on the back of the oven cavity. This is NOT covered under warranty.

# Technical Specifications

Model	NE-C1163V	NE-C1173V	NE-C1163W	NE-C1173W
Power Source	208V / 60Hz, Single Phase		230V / 60Hz, Single Phase	
Required Power	3300W / 15.9A		3300W / 14.5A	
Output	Microwave: 1100W (IEC 705-88) Convection Heater: 2300W Grill Heater: 2300W			
Frequency	2450 MHz			
Outer Dimensions (W x D x H)	23 <sup>5</sup> / <sub>8</sub> " x 20 <sup>7</sup> / <sub>16</sub> " x 15 <sup>3</sup> / <sub>16</sub> " (600 mm x 519 mm x 385 mm)			
Cavity Dimensions (W x D x H)	16" x 13 <sup>1</sup> / <sub>4</sub> " x 8 <sup>9</sup> / <sub>16</sub> " (406 mm x 336 mm x 217 mm)			
Net Weight	88 lbs (40 kg)			
Timer	Microwave: 100 - 60 % power		15 minutes	
Maximum Setting Time	50 - 10 % power		60 minutes	
	Convection: 2 hours		Combination: 1 hour	
Memory Programs	100 Memory Programs			

Specifications subject to change without notice.

For the voltage requirements, the production year and month, country and serial number, please refer to the identification plate on the Microwave Convection Oven.

