

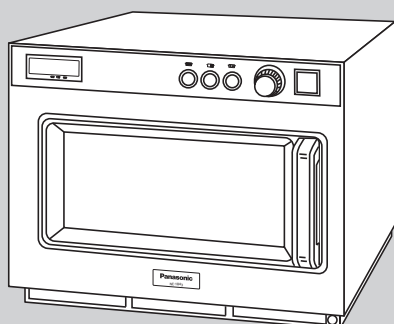
# Panasonic®

## Operating Instructions

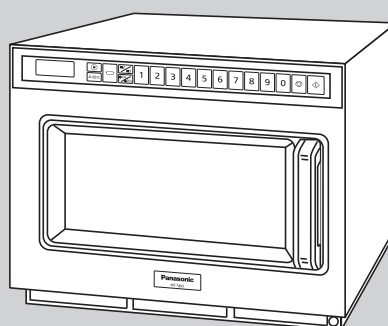
For Commercial Use

Models No. **NE-1843/NE-1853**  
Microwave Ovens

**NE-1843**



**NE-1853**



Please read these instructions completely before operating this oven and keep for future reference.



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This product is an equipment that fulfills the European standard for EMC disturbances (EMC = Electromagnetic Compatibility) EN 55011. According to this standard this product is an equipment of group 2, class B and is within required limits. Group 2 means that radio-frequency energy is intentionally generated in the form of electromagnetic radiation for warming and cooking of food. Class B means that this product may be used in normal household areas.

Manufactured by: Panasonic Corporation, 1006 Oaza Kadoma,  
Kadoma City, Osaka, Japan

Importer: Panasonic Marketing Europe GmbH  
Panasonic Testing Centre,  
Winsbergring 15, 22525 Hamburg,  
Germany

Sound pressure level is less than  
70 dB (A weighted).

# Important Safety Instructions

## INSTALLATION

### REMOVAL OF PROTECTIVE FILM

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

### ATTACH CAUTION LABEL.

If a caution label is enclosed with your oven, please attach it to the top of the appliance before using.

## EARTHING

**IMPORTANT: FOR PERSONAL SAFETY, THIS APPLIANCE MUST BE PROPERLY EARTHED.**

When an outlet is not earthed, it is personal responsibility and obligation of the customer to have it replaced with a properly earthed outlet.

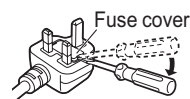
This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 13 amp fuse is fitted in this plug. Should the fuse need to be replaced, please ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover, you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover, the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be purchased from your local Panasonic Dealer.

#### HOW TO REPLACE THE FUSE

Open the fuse compartment with a screwdriver and replace the fuse.



IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY AND AN APPROPRIATE ONE FITTED.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

# Important Safety Instructions

## **VOLTAGE AND POWER WARNING**

The voltage used must be the same as specified on the microwave oven. Using a higher voltage than that which is specified is dangerous, and may result in a fire or other type of accident causing damage. Do not plug your oven in via an extension cable as this can be dangerous. It is important to plug the oven directly into a wall socket. The back of the appliance heats up during use. Do not allow the cord to be in contact with the back of the appliance or cabinet surface.

## **PLACEMENT OF THE OVEN**

Locate the oven on a surface which is flat and stable. Do not place the oven in a hot or damp place;

e.g. near a gas or electric range. Do not operate the oven when the room temperature is higher than 40°C and/or the humidity is more than 85%. Free airflow around the oven is important.

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

For safe and efficient operation, the oven must have sufficient air flow to the air vents i.e. 5 cm at the side and rear; 20 cm at the top.

Do not install appliances at higher than 1.6 m and also, less than 0.8 m. Oven must be placed for easy access to control panel and door and also, for disconnect power or shut off power by fuse or circuit breaker.



An external equipotential bonding conductor is provided at the back side of the oven and it is marked by this symbol.

## **GUARANTEE CARD**

Fill out and post the pre-addressed guarantee card.

# Important Safety Instructions

## WARNING

1. To reduce the risk of burns, electric shock, fire, injury to persons or excessive microwave energy:  
Read all instructions before using microwave oven.
2. If the door or door seals are damaged, the oven must not be operated until it has been repaired by a competent person.
3. The contents of feeding bottles and baby food jars shall be stirred or shaken and the temperature checked before consumption, in order to avoid burns.
4. Liquids and other foods must not be heated in sealed containers since they are liable to explode.
5. Microwave heating of beverages can result in delayed eruptive boiling, therefore care must be taken when handling the container.
6. It is hazardous for anyone other than a competent person to carry out any service or repair operation that involves the removal of a cover which gives protection against exposure to microwave energy.

# Important Safety Instructions

## CAUTION

1. In order to maintain the high quality of the magnetron tubes and other components, you are requested not to turn the oven on with no food inside.
2. High voltages are present inside the cabinet. Repairs and adjustments should be done only by qualified service personnel.
3. This microwave oven requires free airflow in the back for maximum cooling efficiency. You should keep the air vents clear while cooking.
4. Do not dry clothes in the microwave oven since there is a possibility of the clothes burning if left in the oven for too long of a time.
5. Use this microwave oven only for its intended use as described in this manual.
6. Do not operate this microwave oven, if it is not working properly, or if it has been damaged or dropped.
7. Do not use outdoors.
8. Do not immerse cord or plug in water.
9. Keep cord away from heated surfaces.
10. Do not let cord hang over edge of table or counter.
11. To reduce the risk of fire in the oven cavity:
  - a) Do not overcook food. Carefully attend microwave oven if paper, plastic, or other combustible materials are placed inside the oven to facilitate cooking.
  - b) Remove wire twist-ties from bags before placing bag in oven.
  - c) If materials inside the oven should ignite, keep oven door closed, turn oven off at the wall switch, or shut off power at the fuse or circuit breaker panel.

## **Important Safety Instructions**

12. Do not store flammable materials next to, on top of, or in the oven. It could be a fire hazard.
13. Do NOT use this oven to heat chemicals or other non-food products. Do NOT clean this oven with any product that is labelled as containing corrosive chemicals. The heating of corrosive chemicals in this oven may cause microwave radiation leaks.
14. Do not use your oven for home canning or the heating of any closed jar. Pressure will build up and the jar may explode. In addition, the microwave oven cannot maintain the food at the correct canning temperature. Improperly canned food may spoil and be dangerous to consume.
15. Do not attempt to deep fat fry in your microwave oven.
16. Potatoes, apples, egg yolks, whole squash and sausages are examples of foods with nonporous skins. This type of food must be pierced before cooking, to prevent bursting.
17. DO NOT USE A CONVENTIONAL MEAT THERMOMETER IN THE MICROWAVE OVEN. To check the degree of cooking of roasts and poultry use a MICROWAVE THERMOMETER. Alternatively, a conventional meat thermometer may be used after the food is removed from the oven. If undercooked, return meat or poultry to the oven and cook for a few more minutes at the recommended power level. It is important to ensure that meat and poultry are thoroughly cooked.
18. Extreme care should be taken when cooking popcorn in a microwave oven. Cook for minimum time as recommended by manufacturer. Use the directions suitable for the wattage of your microwave oven. NEVER leave oven unattended when popping popcorn.
19. When reheating babies bottles always remove top and teat. Liquid at the top of the bottle will be much hotter than at the bottom and must be shaken thoroughly before checking the temperature. The lid must also be removed from babies food jars, the contents must also be stirred or shaken before the temperature is checked.



## **Important Safety Instructions**

20. The door seals and door seal areas should be cleaned with a damp cloth.
21. If smoke is observed, switch off or unplug the appliance and keep the door closed in order to stifle any flames.
22. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
23. Before use, the user should check that utensils are suitable for use in the microwave ovens.
24. When heating liquids, e.g. soup, sauces and beverages in your microwave oven, overheating the liquid beyond boiling point can occur without evidence of bubbling. This could result in a sudden boil over the hot liquid. To prevent this possibility the following steps should be taken:
  - a) Avoid using straight-sided containers with narrow necks.
  - b) Do not overheat.
  - c) Stir the liquid before placing the container in the oven and again halfway through cooking time.
  - d) After heating, allow to stand in the oven for a short time, stirring again before carefully removing the container.
25. When heating food in plastic or paper containers, keep an eye on the oven due to the possibility of ignition.
26. Eggs in their shell and whole hard-boiled eggs should not be heated in microwave ovens since they may explode, even after microwave heating has ended.
27. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

## Important Safety Instructions

28. The appliance should not be cleaned with a water jet.
29. There is possibility of danger due to electromagnetic fields, and persons with heart pacemakers are advised to move away from areas with electromagnetic fields. In this case, take note of the instructions provided by the manufacturer.
30. If this product is not going to be used, do not keep items inside. Doing so may result in danger to the surroundings if the switch is accidentally turned on.
31. Do not use recycled paper products, as they may contain impurities which may cause sparks and/or fires when used, unless packaging states they are specifically designed for microwave use.
32. The appliance shall be disconnected from its power supply during service and whilst replacing parts. Following the removal of the supply plug, the plug should remain visible to the service operator to ensure that inadvertent reconnection is avoided.
33. The oven should be cleaned regularly and any food deposits removed.
34. Do not use metal ware, ceramics trimmed with gold or silver, or any container with a metal content.

### USING YOUR OVEN

Do not store any objects inside the oven in case it is accidentally turned on.  
In case of electronic failure, the oven can be turned off at wall socket.

Do not slide the removable shelf in or out when placing or removing food. This action could cause damage to the shelf or cause hot food to tip towards the operator.

### MAINTENANCE OF YOUR OVEN

WHEN YOUR OVEN REQUIRES A SERVICE call your local Panasonic engineer (08701-591590).

Do not attempt to tamper with or make any adjustments or repairs to the door, control panel housing, safety interlock switches or any other part of the oven.

## Care of Your Microwave Oven

Failure to maintain the oven in a clean condition could lead to deterioration of the surface that could adversely affect the life of the appliance and possibly result in a hazardous situation.

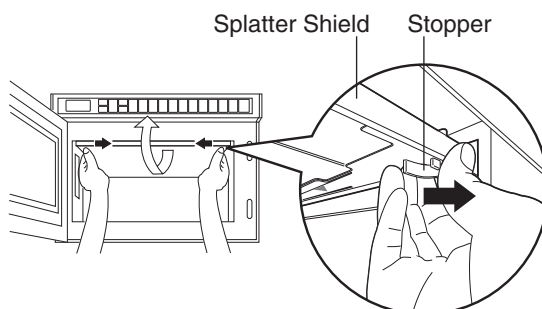
1. Remove the plug from the electrical socket before cleaning.
2. Keep the inside of the oven clean. If pieces of food or spilled liquids stick to the oven walls, or between door seal and door surface, they will absorb microwaves and may cause arcing or sparks. Wipe up all spills with a damp cloth. Kitchen detergent or Food Sanitizer Solution may be used if the oven gets very dirty. Do not use harsh detergents or abrasives.
3. The outside surface of this microwave oven should be cleaned with soap and water, then dried with a soft cloth. Make sure that water does not get into the back ventilation or control panel opening since this can damage the unit.
4. The window of the door should be washed with very mild soap and water. Be sure to use a soft cloth. Never use window cleaner. The front door can be scratched by harsh soap or cleaners.

### CLEANING OF THE SPLATTER SHIELD

1. Hold snap in / snap out stoppers of splatter shield with both hands and pull them in and down. Then take the splatter shield out of the oven cavity.
2. Rinse splatter shield in soapy water or Food Sanitizer Solution.
3. Be sure to replace the shield before using the oven.

#### CAUTION

Splatter shield must be in place securely when you use the oven.

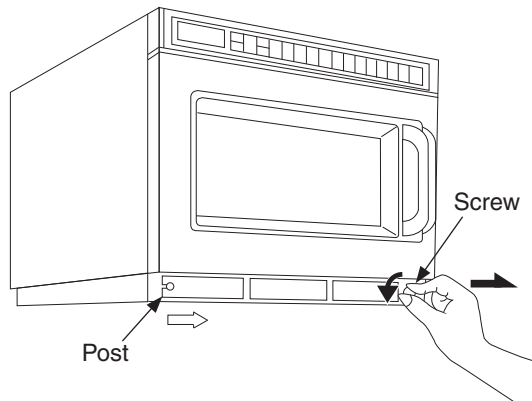


# Care of Your Microwave Oven

## CLEANING AIR FILTER

Clean the Air Filter regularly according to the following instructions. The oven may have problems when the Air Filter becomes clogged with dust(\*).

1. Remove the Air Filter from the front bottom skirt by turning the right screw to the left. Then slide the filter to the right and lift it off the post at the left.
  2. Wash this filter in warm soapy water.
  3. Be sure to replace the Air Filter before using the oven.
- (\*) If the Air Filter becomes clogged with debris this will cause an overheating problem with the oven.



# How Does the Microwave Work?

Microwaves are a form of high frequency radio waves similar to those used by a radio including AM, FM and CB. They are, however, much shorter than radio waves; approximately 12 cm long. Electricity is converted into microwave energy by the magnetron tube. From the magnetron tube, microwave energy is transmitted and absorbed.

## Reflection

Microwaves are reflected by metal just as a ball is bounced off a wall. A combination of stationary (interior walls) and rotating antenna, located underneath the bottom shelf and above the ceiling cover assure that the microwaves are well distributed within the oven cavity to produce even heating or cooking of foods.

## Transmission

Microwaves pass through some materials such as paper, glass and plastic much like sunlight shining through a window. Because these substances do not absorb or reflect the microwave energy, they are ideal materials for microwave oven cooking containers.

## Absorption

During heating, microwaves will be absorbed by food. They penetrate to a depth of about 1–5 cm. Microwave energy excites the molecules in the food (especially water, fat and sugar molecules), and causes them to vibrate at a rate of 2,450,000,000 times per second. This vibration causes friction, and heat is produced just as you will feel heat produced if you vigorously rub your hands together. The internal heating of larger foods is done by conduction. The heat which is produced by friction travels by conduction to the centre of the food. Foods also continue to heat by conduction during standing time. Because microwaves dissipate, much like sunlight as it reaches the Earth's surface, they are not stored in food.

## 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) Clean the door and sealed surfaces of the oven. (See Care of Your Microwave Oven found on page 11.)
  - b) Place the radio, TV, etc. as far away as possible, from the microwave.
  - c) Use a properly installed antenna, to obtain stronger signal reception.

# Before Use

## Cookware

1. Heat-proof glassware, such as Pyroceram and Pyrex, is best suited for use in the Microwave Oven.
2. If “arcing” should occur, check the cookware carefully again for metal.
3. You may use ordinary glassware, chinaware, plastic-ware and paper-ware, when cooking food that requires a low temperature. Using this type of cookware for high temperature cooking may cause cracking or warping.
4. You can cook steamed vegetables in special “see-through” wrapping film, such as Saran Wrap, or wax paper. Do not cook in a plastic bag.
5. Before using the oven always check that containers are suitable. **DO NOT MICROWAVE** sealed containers as they may explode.
6. **DO NOT** leave the appliance unattended if paper, plastic or other combustible containers are used. Do not use recycled paper products, as they may contain impurities which may cause sparks and/or fires when used, unless packaging states they are specifically designed for MICROWAVE use.

### CAUTION

Do not use METAL UTENSILS in this oven.

## Defrosting Frozen Food

1. If you try to completely defrost frozen food in the Microwave Oven, uneven defrosting may occur due to the differences in the thickness and shape of the food. Drip may also result, and sometimes a part of the food cooks although other parts still remain frozen. In actual usage of frozen foods, you should not normally defrost them 100%, 70% defrosting in the Microwave Oven is ideal and helpful for the next cooking operation.
2. To defrost evenly, turn over or rearrange the food during defrosting.
3. To defrost fatty meat, heat it in the Microwave Oven for a short time and leave it to stand at room temperature, or heat it intermittently until defrosted.
4. When you defrost a whole chicken, or any frozen food of irregular shape, wrap legs or thin parts with aluminium foil. Otherwise thin parts will be defrosted faster and sometimes cooked before other parts have properly defrosted. For big pieces of meat, wrap the sides with aluminium foil so that they will be uniformly thawed by vertical microwaves only.
5. Ice should be removed at times during defrosting.

## Other Helpful Instructions

### For best results

1. As microwave cooking times are much shorter than other cooking methods it is essential that recommended cooking times are not exceeded without first checking the food.  
Factors that may affect cooking times are: preferred degree of cooking, starting temperature, altitude, volume, size and shape of foods and utensils used.  
As you become familiar with the oven, you will be able to adjust these factors.  
It is better to undercook rather than overcook foods. If food is undercooked, it can always be returned to the oven for further cooking. If food is overcooked, nothing can be done. Always start with minimum cooking times.

### IMPORTANT

**If the recommended cooking times are exceeded, the food will be spoiled and in extreme circumstances it could catch fire and possibly damage the interior of the oven.**

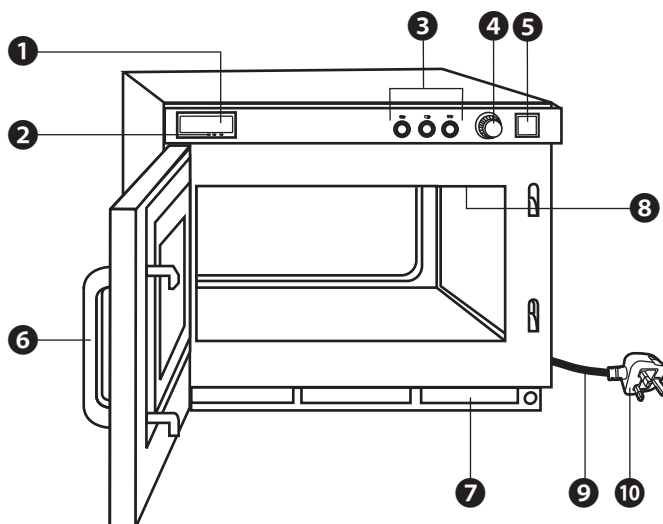
2. Be careful of the cooking time for small quantities of foods, or foods with low water content. They may burn if cooked too long.
3. Do not use the oven for drying kitchen towels or napkins. They may burn if heated too long.
4. Do not try to boil eggs in the oven.
5. When you cook an egg be sure to pierce the yolk membrane prior to placing into the oven to prevent the egg bursting.
6. To achieve more even cooking result, give the dish a half-turn, or turn the food over.
7. Christmas puddings and other foods high in fats or sugar, e.g. jam, mince pies, must not be over heated. These foods must never be left unattended as with over cooking these foods can ignite.
8. It is essential that reheated food is served “piping hot”. Remove the food from the oven and check that it is “piping hot”, i.e. steam is being emitted from all parts and any sauce is bubbling. If you wish you may choose to check the food has reached 72°C with a food thermometer—(but remember do not leave this thermometer inside the microwave.) or to a temperature recommended by Government Food Hygiene Regulations.  
For foods that cannot be stirred, e.g. lasagne, shepherds pie, the centre should be cut with a knife to test it is well heated through. Even if a manufacturer’s packet instructions have been followed, always check the food is piping hot before serving it. If in doubt return your food to the oven for further heating.
9. Standing time refers to the period at the end of cooking or reheating when food is left before being eaten, i.e. it is a rest time which allows the heat in the food to continue to conduct to the centre, thus eliminating cold spots.

# Definitions and Feature Explanations

This oven has many features not typically found on other commercial Microwave Ovens.

FEATURE	EXPLANATION
Manual Heating	Gives the user maximum flexibility to set the oven to desired heating time and power level. Ideal for menus that require variations in heating.
Single Stage Heating	Allows the oven to run at the selected power level for the selected heating time.
Interrupt Function	Allows opening of the oven door to check on the food in the cavity. Closing the door and touching Start Pad resumes heating. Cooking time does not countdown while you check on your food. <b>Note:</b> Interrupt Feature is deactivated in "Program Lock".
Repeat Function (For Manual Heating Only)	After you remove your food from the oven, the timer is automatically preset to repeat the last heating time and power level. This is especially convenient for daily specials that you do not want to program into Memory Pads.
Self Diagnostics	The oven constantly monitors its operation. When an operational problem develops, the Digital Display Window displays a Failure code. By checking the code number against the list in this manual you will know the nature of the problem, whether you can solve the problem yourself, or need to call a service agent or need to call an electrician. If a service agent is required the Failure code number will let him know which parts to bring on the Service call.
<b>NE-1853 only</b>	
2 to 5 Stage Heating	Allows the oven to be set to begin heating at one power level then shift automatically to a different power level after designated amount of heating time (i.e. HIGH to MED or DEF to HIGH).
Two Step Operation (In "Program Unlock" Only)	Gives you time to confirm and or revise the selected heating program before starting the heat cycle. (Select heating program either manually or by Pad number, and then touch Start Pad.)
One Touch Start (In "Program Lock" Only)	One touch of the desired programmed number pads starts heating. Great for Fast Food, Convenience store and Vending applications.
Cycle Counter	The oven can display the total number of times the oven has been operated by pad number, by manual operation and cumulatively. Great for analysing usage of the oven and traffic flow at the location.
Program Lock	<ol style="list-style-type: none"> <li>1. "Locks" the control panel number pads into their programmed heating times and power levels.</li> <li>2. Converts the oven to "One Touch Start" operation.</li> <li>3. Deactivates Program, Power Level Selector and Start Pad.</li> <li>4. Deactivates manual operation.</li> </ol> Prevents unwanted erasing of Memory Pads. Simplifies operation—Great for Fast Food, Convenience Store and Vending applications.
Program Unlock	Deactivates "Program Lock" and activates all other features.
Tone Loudness Control	Allows you to set the loudness of the beep tone to one of 4 different levels.
Tone Length Control	Allows you to set the length of the end of heating cycle beep tone to one of 3 different lengths.
Tone Pitch Control	Allows you to set the pitch of the end of heating cycle beep tone to one of 3 different pitches.
Program List	Allows you to review all currently programmed Pad numbers, heating times and Power levels for each stage.
Filter Clean Function	The word "FILt" will appear in the display after 500 hours of use, to remind you to remove and clean the Air Filter. This time can be reprogrammed to your own needs.
Double/Triple Quantity Pad	This Pad has a preset magnification of 1.6 times the original cooking time for double quantity and 2.2 times for the triple quantity, to cook two or three portions at once.
+10s/+20s Pad	This Pad has preset heating times of 10 seconds and 20 seconds. The heating at HIGH power for 10 seconds will start by touching this Pad once, and the heating at HIGH power for 20 seconds will start by touching this Pad twice.

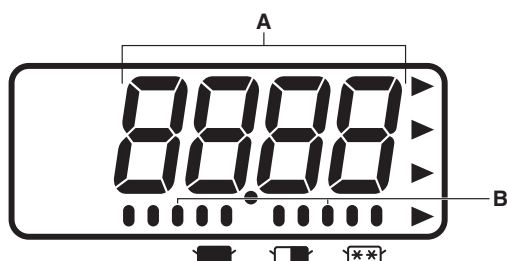
# Outline Diagram of NE-1843



- ❶ Digital Display Window (see below)
- ❷ Power Level Indicator Display
- ❸ Power Level Selector Buttons
- ❹ Timer Dial
- ❺ Start Button

- ❻ Door Handle
- ❼ Air Filter
- ❽ Splatter Shield (top of inner cavity)
- ❾ Power Cord
- ❿ Power Plug

Caution label is attached on the outside surface.



A — Heating Time Display (min. sec.)

B — Power Level Indicator

- : HIGH
- ▤ : MEDIUM
- ❄ : DEFROST




# How to Operate NE-1843

## Example: To cook food at MEDIUM power for 4 minutes





1. Make sure the oven is plugged into a properly earthed electrical outlet.






2. Open the door.  
The oven lamp will turn on. "0" will appear in the Digital Display Window and Power Level Indicator  will appear.
3. Put the food into a suitable container, place it in the centre of the oven and then close the door securely.  
The oven lamp will turn off.  
**Note:** While "0" appears, operation is available. 1 minute after the door is closed, "0" will disappear.



4. Press the desired Power Level Selector Button, if other than  (HIGH).  
The selected Power Level Indicator will be displayed under the Digital Display Window.  
[Example]: Press Power Level Selector Button once for  (MEDIUM).



5. Set the desired heating time.  
Please check the heating time will appear.  
**Note:** The maximum set time for  is 25 minutes, and 30 minutes for  or .  
[Example]: Set heating time for 4 minutes.




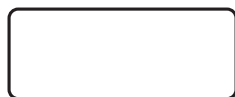
6. Press Start Button.  
A. The oven lamp will turn on.  
B. Heating will start.  
C. Power Level Indicator will start to blink.  
D. The heating time on digital display will count down.



7. When all time expires, beep tone will sound and all heating will stop.  
The oven lamp will turn off. "0000" will blink until the door is opened. 1 minute later, cooling fan will stop.



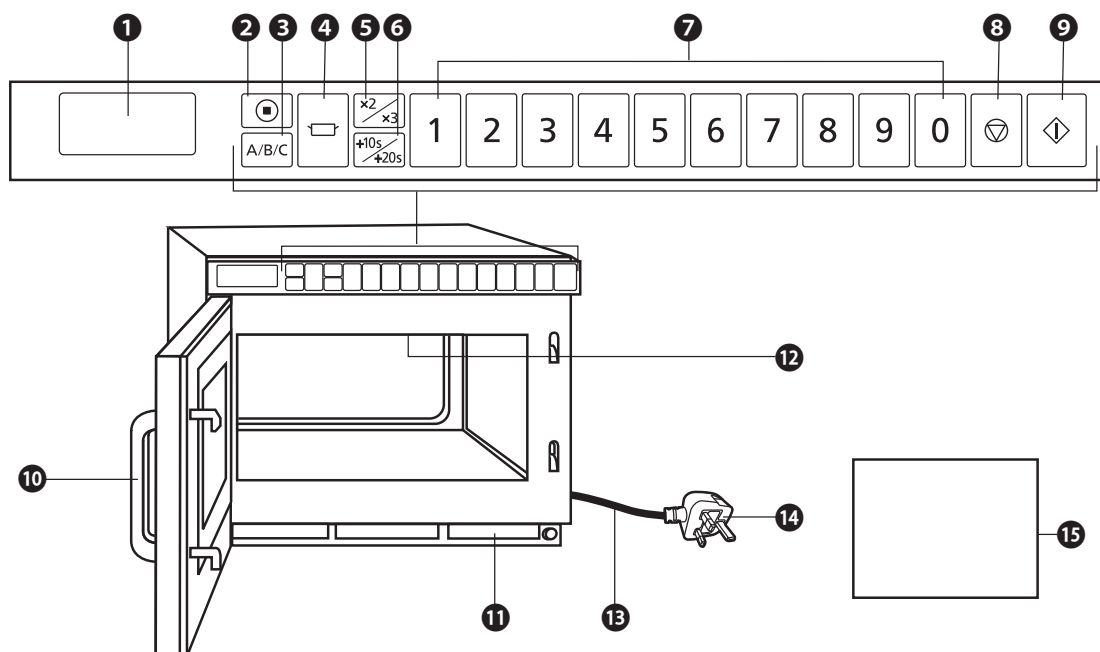
8. Open the door and take the food out.  
The oven lamp will turn on. Digital Display Window will show "0" and Power Level Indicator  will appear.



9. Close the door.  
The oven lamp will turn off and 1 minute later, the Digital Display Window will go blank.

- When you press the Start Button with door open, "0" will appear in the display in all cases.
- Even after setting the heating time you can still change the power level.
- If you wish to change the heating time during heating, simply adjust the timer to desired minutes and seconds.

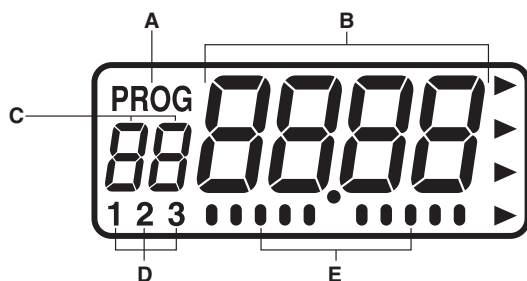
# Outline Diagram of NE-1853



- ① Digital Display Window (see below)
- ② Prog (Program) Pad
- ③ Shift (A/B/C) Pad
- ④ Power Level Selector Pad
- ⑤ Double/Triple Quantity Pad
- ⑥ +10s/+20s Pad
- ⑦ •Number/Memory Pads  
•Time Input
- ⑧ Stop/Reset Pad

- ⑨ Start Pad
- ⑩ Door Handle
- ⑪ Air Filter
- ⑫ Splatter Shield (top of inner cavity)
- ⑬ Power Cord
- ⑭ Power Plug
- ⑮ OPERATING GUIDE

Caution label is attached on the outside surface.



- A—Program Display
- B—Heating Time Display  
("min. sec." or "hour min.")
- C—•Memory Pad Number Display  
•Heating Stage Indicator
- D—Pattern of Buzzer Sound Setting
- E—•Calling Programmed Heating:  
Stage Number Indicator  
•Programmed Heating in Progress:  
Operation Indicator  
•Beep Tone Setting: Scale Indicator

## This oven is preset at the factory for the following:

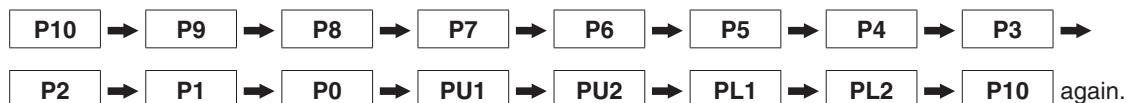
1. Manual operation
2. Number Pads preset to HIGH power at the indicated heating times for single stage heating.  
A1=10 sec.    A2=20 sec.    A3=30 sec.    A4=40 sec.    A5=50 sec.  
A6=1 min.    A7=1 min. 15 sec.    A8=1 min. 30 sec.    A9=1 min. 45 sec.    A0=2 min.
3. Program unlock
4. Double Quantity=1.6 times    Triple Quantity=2.2 times
5. Cycle counter set to "0" on all pads.
6. Oven Lamp    When the door is open = ON    Blinking at the end of heating cycle = OFF  
Decrease brightness during cooking = OFF
7. The default filter cleaning time is set to "500".

If you wish to change these times, please consult the operating instructions to find how to program them.

# How to Operate NE-1853

## POWER LEVEL SELECTOR PAD

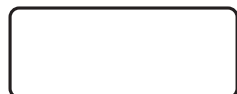
Each time the pad is touched, the Power Level switches as the illustration below.



HIGH	P10: 1800 W*	LOW	P3: 30%
MEDIUM HIGH	P9: 90%	DEFROST	P2: 25%
	P8: 80%	OFF	P1: 340 W
	P7: 70%	HEAT FROM TOP DOWN	P0: 0%
MEDIUM	P6: 60%	HEAT FROM BOTTOM UP	PU1: 50%
	P5: 50%		PU2: 25%
	P4: 40%		PL1: 50%
			PL2: 25%

\*IEC Test Procedure

## A. Manual Single Stage Heating



- Make sure the oven is plugged into a properly earthed electrical outlet.
- Open the door.  
The oven lamp will turn on. "0" will appear in the Digital Display Window.
- Put the food into a suitable container, place it in the centre of the oven and then close the door securely.  
The oven lamp will turn off.  
**Note:** While "0" appears, operation is available. 1 minute after the door is closed, "0" will disappear.
- Select the desired Power Level by touching Power Level Selector Pad.  
The selected Power Level will be displayed in the Digital Display Window and the single stage heating indicator "1" will start to blink.  
[Example]: Touch Power Level Selector Pad once for HIGH power.  
**Note:** Each time Power Level Selector Pad is touched, the Power Level switches as the above Power Level Selector illustrates.
- Set the desired heating time by touching the appropriate Number Pads.  
**Note:** The maximum set time for "DEFROST" and "P0" is 30 minutes, and 15 minutes for all others.  
[Example]: Touch Number Pads "2", "0" and "0" for 2 minutes.
- Touch Start Pad.
  - The oven lamp will turn on.
  - Heating will start.
  - During operation, the indicator appears from the left.
  - The heating time on digital display will count down.
- When all time expires, the end of cycle beep tone will sound and all heating will stop. The oven lamp will turn off. The display will blink "0000" until the door is opened. 1 minute later cooling fan will stop.

(Continued on next page.)

# How to Operate NE-1853



8. Open the door and take the food out.  
The oven lamp will turn on. The digital display will show the originally selected time and heating stage number.

9. Close the door.  
The oven lamp will turn off and 1 minute later the Digital Display Window will go blank.

## **SPECIAL NOTE: For both single and 4 stage heating.**

1. While heating, one touch on Stop/Reset Pad stops the oven. You can restart it by touching Start Pad or a second touch on Stop/Reset Pad will cancel the selected program.
2. While not in a heating cycle, one touch on Stop/Reset Pad cancels the selected program.

## **REPEAT FEATURE**

1. You can repeat exactly the same manually selected heating time by touching only Start Pad, if you use the oven again within 1 minute.
2. After 1 minute of non-use with the door closed, the repeat feature will be cancelled.

## **B. Manual 2 to 5 Stage Heating**



1. Follow Steps 1–5 on page 19.
2. Select the desired Power Level for the second stage heating by touching Power Level Selector Pad the appropriate number of times.  
The Power Level will be displayed in the Digital Display Window and the second stage indicator “2” will start to blink.  
[Example]: Touch Power Level Selector Pad 8 times for LOW power.



3. Set the desired heating time for the second stage by touching the appropriate Number Pads.  
**Note:** The maximum set time for “DEFROST” and “P0” is 30 minutes, and 15 minutes for all others.  
However, the TOTAL TIME can be set up to 25 minutes for continuous heating (1 to 5 stage heating) that excludes “DEFROST” and “P0”.  
[Example]: Touch Number Pads “1”, “0” and “0” for 1 minute.



4. Touch Start Pad.
  - A. The total time for both stages will be displayed.
  - B. The oven lamp will turn on.
  - C. During operation, the indicator appears in order from the left.
  - D. The heating time for the first stage will count down.



5. After the first stage heating time expires, a single beep tone will sound, the second stage heating indicator “2” will start to blink, and the heating time will continue to count down.



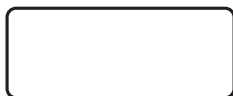
6. When all time expires, the end of cycle beep tone will sound. All heating will stop. The oven lamp will turn off. The time display will blink “0000” until the door is opened. 1 minute later cooling fan will stop.

(Continued on next page.)

# How to Operate NE-1853



7. Open the door and take the food out.  
The oven lamp will turn on. The digital display will show the originally selected time and heating stage number.



8. Close the door.  
The oven lamp will turn off and 1 minute later the Digital Display Window will go blank.

**Note:** For the heating cycle of the third and later stages, select Power Level once again after Step 3 on page 20 and set a heating time.

See Special Note of "Manual Single Stage Heating" on page 20.

## C. Programming Memory Pads for Single Stage Heating

The oven can not be programmed until the program lock feature is deactivated.

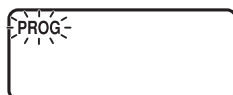
(See page 25, J. To Activate Program Lock.)



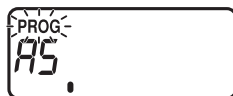
1. Make sure the oven is plugged into a properly earthed electrical outlet.



2. Open the door and leave it open.



3. Touch Prog Pad.  
"PROG" sign will start to blink in the Digital Display Window.



4. Touch Memory Pad you desire to program.  
The pad number and the previously programmed information will appear in the Digital Display Window.  
[Example]: Touch Memory Pad "5".



5. Select the desired Power Level by touching Power Level Selector Pad.  
The selected power level will be displayed in the window and the single stage heating indicator "1" will start to blink.  
[Example]: Touch Power Level Selector Pad 10 times for DEFROST power.



6. Set the desired heating time by touching the appropriate Number Pad.  
**Note:** The maximum set time for "DEFROST" and "P0" is 30 minutes, and 15 minutes for all others.  
[Example]: Touch Number Pads "1", "0" and "0" for 1 minute.



7. Touch Prog Pad again.  
The "PROG" sign and the single stage heating indicator "1" will stop blinking. This means that you have completed programming the selected Memory Pad for the single stage heating.



8. 3 seconds after programming is completed, "0" will appear.
9. Program the remaining Memory Pads as desired by repeating Steps 3–7 above.

**Note:** ●When the "PROG" Display is blinking, the program can be cancelled and/or one touch on Stop/Reset Pad erased the programmed Number/Memory Pad number.  
●When you want to program B or C side, touch Shift (A/B/C) Pad before touching Program Number Pad.

# How to Operate NE-1853

## D. Programming Memory Pads for 2 to 5 Stage Heating



1. Complete Steps 1–6 above.



2. Select Power Level for the second stage by touching Power Level Selector Pad. The selected Power Level will be displayed in the window and the second stage heating indicator “2” will start to blink.

[Example]: Touch Power Level Selector Pad once for HIGH power.



3. Set the desired heating time by touching appropriate Number Pads.

**Note:** The maximum set time for “DEFROST” and “P0” is 30 minutes, and 15 minutes for all others.

However, the TOTAL TIME can be set up to 25 minutes, and 15 minutes for continuous heating (1 to 5 stage heating) that excludes “DEFROST” and “P0”.

[Example]: Touch Number Pads “2”, “0” and “0” for 2 minutes.



4. Touch Prog Pad again and the “PROG” sign and the second stage heating indicator “2” will stop blinking. The total time for both stages will be displayed. This means that you have completed programming the desired Memory Pad for the second stage heating.



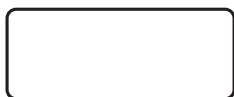
5. 3 seconds after programming is completed, “0” will appear.

6. Program the remaining pads as desired by repeating the Steps above.

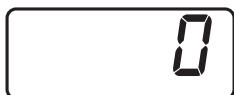
**Note:** ●When you want to program B or C side, touch Shift (A/B/C) Pad before touching Program Number Pad.

●Repeat the above procedure to set Heating for the third stage and later stages.

## E. Memory Pad Heating



1. Make sure the oven is plugged into a properly earthed electrical outlet.



2. Open the door.

The oven lamp will turn on. “0” will appear in the Digital Display Window.

**Note:** While “0” will appear, operation is available. 1 minute after the door is closed, “0” will disappear.

3. Put the food into a suitable container, place it in the centre of the oven and then close the door securely. The oven lamp will turn off.



4. Touch the desired Memory Pad.

A. The currently programmed information will be indicated.

[Example]: Memory Pad “5” (Program No. A-5)

The heating program (at DEFROST power for 1 minute, at HIGH power for 2 minutes) as programmed on pages 21–22 is set.



5. Touch Start Pad.

A. The oven lamp will turn on.

B. During operation, the indicator appears in order from the left.

C. The heating time will count down.

(Continued on next page.)

# How to Operate NE-1853



- When all the time expires, the end of the cycle beep tone will sound. All heating will stop. The oven lamp will turn off. The time display will blink "0000" until the door is opened. 1 minute later, cooling fan will stop.



- Open the door and take the food out.  
The oven lamp will turn on.
- Close the door.  
The oven lamp will turn off and 1 minute later the Digital Display Window will go blank.

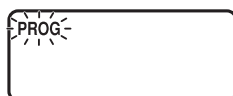
**Note:** To use B or C side Program, touch Shift (A/B/C) Pad before touching Program Number Pad.

## F. Programming Double/Triple Quantity Pad

(The oven can not be programmed until the program lock feature is deactivated.)



- Open the door and leave it open.  
The oven lamp will turn on, and "0" will appear.



- Touch Prog Pad.  
"PROG" will blink in the Digital Display Window.



- Touch Memory Pad for the desired program.  
The pad number and the previously programmed information will appear in the display. "PROG" will start to blink.



- Touch Double/Triple Quantity Pad once.  
The previously selected magnification number will appear in the display.  
[Example]: 1.6 times is 16. (Double quantity) 2.2 times is 22. (Triple quantity)



- Set the desired magnification by touching the appropriate Number Pad.  
[Example]: 1.5 times; Touch Number Pads "1" and "5".



- Touch Prog Pad again.  
The "PROG" will stop blinking. This means that you have completed programming the selected Memory Pad for appropriate double quantity.



- After 3 seconds later, "0" will appear.

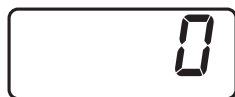
**Note:** If you want to change appropriate time for triple quantity, you touch Double/Triple Quantity Pad twice as in Step 4 above. The magnification is preset. Each magnification must be programmed separately for alterations.

**N.B.** Please test for correct times when setting the program to achieve correct temperatures.

# How to Operate NE-1853

## G. Memory Pad Heating for Double/Triple Quantity Heating

[Make sure the unit is properly programmed. (See page 23.)]



1. Follow Steps 1–3 in “E. Memory Pad Heating”.



2. Touch Double/Triple Quantity Pad once.

**Note:** When you want triple quantity heating, touch Double/Triple Quantity Pad twice.



3. Touch the desired Memory Pad.

[Example]: Memory Pad 5 (Program No. A-5)



4. Touch Start Pad.

A. The oven lamp will turn on.

B. During operation, the indicator appears in order from the left.

C. The heating time will count down.

**Note:** If program lock is activated, the heating program starts immediately, i.e. there is no need to touch Start Pad. (See page 25.)



5. When all time has expired, the end of the cycle beep tone will sound. All heating will stop. The oven lamp will turn off. The time display will blink “0000” until the door is opened.



6. Open the door and remove the food. Close the door.

1 minute later the Digital Display Window will go blank.

**Note:** To use B or C side Program, touch Shift (A/B/C) Pad before touching Program Number Pad.

## H. +10s/+20s Pad Heating



1. Make sure the oven is plugged into a properly earthed electrical outlet.



2. Open the door.

The oven lamp will turn on. “0” will appear in the Digital Display Window.

**Note:** While “0” will appear, operation is available. 1 minute after the door is closed, “0” will disappear.

3. Put the food into a suitable container, place it in the centre of the oven and then close the door securely.

The oven lamp will turn off.



4. Touch +10s/+20s Pad once.

A. The oven lamp will turn on.

B. During operation, the indicator appears in order from the left.

C. Heating will start on HIGH power for 10 seconds.

[Example]: Touch +10s/+20s Pad once for 10 seconds.

Touch +10s/+20s Pad twice for 20 seconds.



5. When all the time expires, the end of cycle beep tone will sound. All heating will stop. The oven lamp will turn off. The time display will blink “0000” until the door is opened. 1 minute later, cooling fan will stop.

(Continued on next page.)



# How to Operate NE-1853



6. Open the door and take the food out.  
The oven lamp will turn on.
7. Close the door.  
The oven lamp will turn off and 1 minute later the Digital Display Window will go blank.

**Note:** While heating, one touch on Stop/Reset Pad or opening the door will cancel the heating program.

## I. To Read the Cycle Counter

### •To display all cooking times ever used



1. Open the door and leave it open.  
The oven lamp will turn on. "0" will appear in the display.



2. While touching Start Pad, touch Number Pad "3".  
All the cooking times that were ever used will appear.

### •To display the cumulative number of times the oven was used

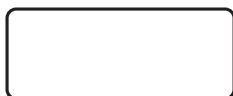


1. Open the door and leave it open.  
The oven lamp will turn on. "0" will appear in the display.

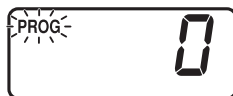


2. While touching Start Pad, touch Power Level Selector Pad.  
The Number of cycles that the oven has been used will appear.  
**Note:** The last two digits are dropped from the cumulative number of times the oven was used, which is displayed in units of 100 when used over 100 times.

## J. To Activate Program Lock



1. Make sure the oven is plugged into a properly earthed electrical outlet.



2. Open the door and leave it open.  
The oven lamp will turn on. "0" will appear in the display. While touching Start Pad, touch Prog Pad until the display show "PROG", "P" and "L" (for more than 2 seconds).



3. Program Lock feature is now activated.  
**Note:** In "Program Lock"
  - a. The oven is started by touching the desired Memory Pad. There is no need to touch Start Pad.
  - b. The Interrupt feature is deactivated—opening the door cancels the remaining time on the program.
  - c. The oven can not be programmed or run manually until the Program Lock feature is deactivated.

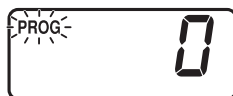
## K. To Deactivate Program Lock



1. Make sure the oven is plugged into a properly earthed electrical outlet.

(Continued on next page.)

# How to Operate NE-1853



2. Open the door and leave it open.  
The oven lamp will turn on. "0" will appear in the display. While touching Start Pad, touch Prog Pad until the Digital Display Window show "PROG" and "P" (for more than 2 seconds).



3. Program Lock feature is now deactivated.

**Note:** In "Program Unlock"

- a. Oven reverts to a two-touch operating mode (Number/Memory Pad + Start Pad).
- b. Repeat and interrupt features are operational.
- c. Memory Pads can be programmed.
- d. Manual heating is operational.
- e. Tone loudness control, length control and pitch control (beep tone at the end of heating cycle/filter cleaning alarm) are operational.

## L. To Read Program List



1. Open the door and leave it open.



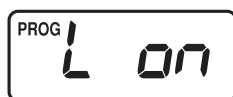
2. While touching Start Pad, touch Number Pad "1".  
All currently programmed information (the program set into each Number/Memory Pad (A0 to C9), Beep Tone, Program Lock, Oven Lamp settings when the door is open, Oven Lamp blink settings at the end of heating cycle and Oven Lamp reduction settings during cooking information) will continuously appear.

**Note:** When the filter cleaning alarm counter is set, this appears after Program Lock.



### How to erase memory content

1. Open the door (keep it open) and touch Prog Pad.
2. Select the memory number you want to erase, and touch Power Level Selector Pad.
3. Touch Stop/Reset Pad, and "0" is displayed to indicate that memory is erased.  
\*Memory content is automatically erased if overwritten.



# How to Operate NE-1853

## M. To Select Beep Tone Options

**(The oven can not be programmed until the program lock feature is deactivated.)**

The beep tone can be set for loudness—(4 Levels), length of tone—(3 Options), pitch of tone—(3 Options) and pitch of filter cleaning alarm—(3 Options). You can select the combination of loudness, length and pitch that best suits your needs.

The beep tone is set at the factory to the loudest level (#3), to 3 beeps and to normal pitch.

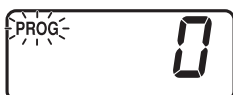
### To Select Loudness Level

1. Make sure the oven is plugged into a properly earthed electrical outlet.



2. Open the door and leave it open.

The oven lamp will turn on. "0" will appear in the display.



3. Touch Prog Pad first and then touch Start Pad.

"3 bEEP" and pattern of buzzer sound settings indicator "1" will appear in the Digital Display Window and "PROG" will blink.



4. Select the desired sound loudness level by touching Start Pad.

Repeated touching of Start Pad will lower the loudness of the tone all the way to silent. The tone will sound at its loudness level and the Digital Display Window will display loudness level in digits (3 to 0—loud to silent) followed by the word "bEEP".

[Example]: 3 bEEP—Loudest (Factory Setting)

1 bEEP—Low

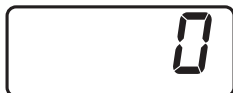
2 bEEP—Mid

0 bEEP—Silent



5. Touch Prog Pad again, and "PROG" will stop blinking, and the set loudness of beep tone will appear for 3 seconds. Then "0" will appear.

To proceed to set length of beep tone, touch Start Pad before "0" is displayed after Step 5.



### To Select Length of Tone

There are 3 options for the length of beep tone at the end of heating cycle.

1st. 3 beeps (Factory Setting)

2nd. Short beeps for 60 seconds

3rd. "Beep" sounds for 5 seconds, and then 3 beeps sound 30 seconds later and again 60 seconds later. (Buzzer reminder functions to prevent food from being forgotten in the oven.)



6. Within 3 seconds after touching Prog Pad at Step 5, touch Start Pad.

A. "PROG" will blink.

B. Current length of beep tone will be displayed.

C. The display changes to 1st, 2nd, and 3rd each time Start Pad is touched and the settings change.



7. When the desired length of tone has been selected, touch Prog Pad again.

"PROG" will stop blinking, and the set length of tone at the end of heating cycle will appear for 3 seconds, then "0" will appear.



To proceed to set pitch of beep tone, touch Start Pad before "0" is displayed after Step 7.

(Continued on next page.)

# How to Operate NE-1853

## To Select Pitch of Tone

There are 3 options for the pitch of tone at the end of the heating cycle.

•: Low, ••: Normal (Factory Setting), •••: High



8. Within 3 seconds after touching Prog Pad at Step 7, touch Start Pad.
  - A. "PROG" will start to blink.
  - B. Current pitch of tone will be displayed.
  - C. The display changes to "•", "••", and "•••" each time Start Pad is touched and the settings change (Under the "bE" in "bEEP").



9. When the desired pitch of tone has been selected, touch Prog Pad again. "PROG" will stop blinking, and the set pitch of tone at the end of heating cycle will appear for 3 seconds. Then "0" will appear.



To proceed to set pitch of filter cleaning alarm, touch Start Pad before "0" is displayed after Step 9.

## To Select Pitch of Filter Cleaning Alarm

There are 3 options for the pitch of the filter cleaning alarm.

•: Low, ••: Normal (Factory Setting), •••: High



10. Within 3 seconds after touching Prog Pad at Step 9, touch Start Pad.
  - A. "PROG" will start to blink.
  - B. Current pitch of filter cleaning alarm will be displayed.
  - C. The display changes to "•", "••", and "•••" each time Start Pad is touched and the settings change (Under the "EP" in "bEEP").



11. When the desired pitch of filter cleaning alarm has been selected, touch Prog Pad again. "PROG" will stop blinking, and the set pitch of filter cleaning alarm will appear for 3 seconds. Then "0" will appear.



**Note:** When the programmed hour of cleaning Air Filter is "0", the pitch of filter cleaning alarm can not be selected.

## N. Procedure to Program the Air Filter



1. Open the door and leave it open.  
The oven lamp will turn on. "0" will appear in the Digital Display Window.



2. While touching Start Pad, touch Number Pad "7".



3. The display will show the length of time (in hours) between cleaning the Air Filter you have programmed in or the original time preset by the manufacturer.



4. Set the desired time between cleaning by touching the appropriate Number Pads. (Up to 9999 hours)  
[Example]: Touch Number Pads "6", "0" and "0" for 600 hours.

(Continued on next page.)

# How to Operate NE-1853



5. Touch Prog Pad.

This completes the procedure to program time between cleaning of the Air Filter.



6. After 3 seconds, "0" will appear in the Digital Display Window. The oven is now ready for use.



**Note:** When "FILT" sign appears in Digital Display Window, remove the Air Filter and clean it.

Touch Stop/Reset Pad for 2 seconds to clear the display.



## To display the filter cleaning alarm counter

1. Open the door and leave it open.
2. While touching Start Pad, touch Number Pad "5".
3. The cumulative total cooking time starts over and is displayed after it is cleared.



After 3 seconds, "0" will appear in the Digital Display Window.

**N.B.** If the oven cuts out after short operation, check the Air Filter is clean before calling an engineer.

## O. Oven Lamp

(The oven can not be programmed until the program lock feature is deactivated.)

### •Oven Lamp settings when the door is open

#### To turn Oven Lamp settings OFF



1. Open the door and leave it open.  
The oven lamp will turn on, and "0" will appear.



2. While touching Start Pad, touch Number Pad "9".  
"PROG" will start to blink. The previously set Oven Lamp settings are displayed.



3. Touch Start Pad.  
**Note:** "on" → "oFF" → "on" is repeated each time the Pad is touched.



4. Touch Prog Pad.  
"PROG" will stop blinking, and the Oven Lamp settings will appear for 3 seconds. Then "0" will appear.

To proceed to Step 5, touch Start Pad before "0" is displayed after Step 4.



(Continued on next page.)

# How to Operate NE-1853

## •Oven Lamp blinks at the end of heating cycle

### To turn the blinking Oven Lamp ON at the end of heating cycle



5. Within 3 seconds after touching Prog Pad at Step 4, touch Start Pad.  
"PROG" will start to blink. The previously set Oven Lamp blink settings are displayed.

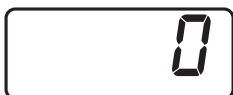


6. Touch Start Pad.  
**Note:** "oFF" → "on" → "oFF" is repeated each time the Pad is touched.



7. Touch Prog Pad.  
"PROG" will stop blinking, and the Oven Lamp blink settings will appear for 3 seconds. Then "0" will appear.

To proceed to Step 8, touch Start Pad before "0" is displayed after Step 7.



## •Adjusting Oven Lamp brightness during cooking

### To decrease brightness of the inner cavity during cooking



8. Within 3 seconds after touching Prog Pad at Step 7, touch Start Pad.  
"PROG" will start to blink. The previously set Oven Lamp reduction settings are displayed.



9. Touch Start Pad.  
**Note:** "oFF" → "on" → "oFF" is repeated each time the Pad is touched.



10. Touch Prog Pad.  
"PROG" will stop blinking, and the Oven Lamp reduction settings will appear for 3 seconds. Then "0" will appear.



# Before Cooking

## Microwave Basics

Fundamental principles determine the success of microwave food preparation.

They include:

1. **Temperature of Foods**—Frozen or refrigerated food items will require longer heating times to reach a desired serving temperature than foods from room temperature.
2. **Food Components**—Foods high in sugar, salt, fats and moisture content heat faster because these properties attract microwave energy. Denser foods high in protein and fibre, absorb microwave energy slower which means a lengthier heating time.
3. **Bulk/Volume**—The greater the mass of food, the longer it takes to heat.
4. **Containers**—Ceramic, paper, china, styrofoam, glass and plastic are suitable for use in microwave ovens with the following caution:

Heating foods with either high sugar or high fat content should be done **ONLY** in high temperature-resistant containers since these foods get very hot. Using styrofoam containers for these foods will cause the styrofoam to warp. Other low temperature restaurant glass or plastic platters may crack or warp under similar conditions.

**DO NOT HEAT** foods in a **SEALED** container or bag. Foods expand when heated and can break the container or bag.

5. **AVOID METAL** because it “bounces” the microwaves, causing uneven heating and sometimes even flashes, which may pit or mark the interior of the oven, the metal container or plate trim.
6. Heated liquids can erupt if not mixed with air. Do not heat liquids in your microwave oven without first stirring.

## General Guidelines for Heating in a Microwave Oven

For specific time, see each food category for appropriate heating techniques, plus necessary pre-preparation of foods.

### Heating Foods from Refrigerated Temperature

Foods stored in the refrigerator (5°C) should be covered before reheating with the exception of breads, pastries or any breaded product, which should be heated uncovered to prevent sogginess.

Most conventionally prepared foods should be slightly undercooked, and held in the refrigerator, so that overcooking does not occur during microwave heating.

Cooked items, such as vegetables, may be portion plated and covered for reheating without loss of colour, texture or nutritional content.

### Heating Foods from Room Temperature

Food items such as canned entrees, vegetables, etc. will require significantly less heating time than those at refrigerated temperatures.

### Important Recommendations

1. For best results it is recommended that foods conventionally prepared be slightly undercooked when subsequently heated in this oven.
2. **REMEMBER** that after the heating cycle has been completed, internal food temperatures continue to rise slightly in foods heated in this oven.
3. A major abuse of microwave applications is the category of breads, pastries and pies. They are drier than insides or fillings, they heat more slowly. Therefore, baked goods should **ONLY** be heated until the crust is warm to the touch (50°C–55°C).
4. **DO NOT OVERHEAT YOUR FOOD:** 99% of all food quality complaints of microwave heated foods can be traced to overheating.






# Cooking Instructions — Heating and Defrosting Time Charts —

The times given in the chart below are a **guideline only**. Many factors eg **starting temperature** of the food can affect the final heating time required. The cooking and defrosting times must be adjusted when necessary. All times are tested using foods at **starting temperatures** as below;

Chilled foods .....Approx. +5°C

Frozen foods .....Approx. -18°C

Always check for the correct core temperature with a temperature probe to comply with current Government Food Hygiene Regulations.

Function	Food	Weight	Power Level	Approx. Time	
				NE-1843	NE-1853
<b>Defrosting</b>	Fish Fillets	500 g	 DEFROST (P1)	8 min	8 min
	Minced Beef	500 g		5 min	5 min
	Whole Chicken	1.36 kg		25 min	25 min
	Composite Dish				
	Multi portion	1.36 kg		20 min	20 min
	Single portion	275 g		8 min	8 min
	Apple Pie	1 portion		1 min 15 s	1 min 15 s
	Gateau	1 portion		2 min	2 min
	Bread Rolls	1 portion 50 g		30 s	30 s
<b>Cooking from Chilled Raw Food</b>	Scrambled Egg	2 eggs + 2 tbsp. milk	 HIGH (P10)	40–50 s	25–30 s
	Broccoli	500 g		4 min 30 s	3 min 30 s
	Fish Fillets	500 g		3 min 30 s	2 min 45 s
	Bacon	2 rashers		1 min 10 s	50 s
	Chicken Portions	500 g		6 min	4 min 45 s
<b>Cooking and/or Reheating from Frozen</b>	Peas	500 g	 HIGH (P10)	5 min 10 s	4 min
	Cooked Rice	167 g		2 min 10 s	1 min 40 s
	Cooked Sausages	x 3 (50 g each)		1 min 15 s	1 min
	Cooked Wings of Fire	x 7 pieces		2 min 10 s	1 min 40 s
	Cooked Boxed Cheeseburger	75 g		1 min 15 s	1 min
	Chocolate Fudge Cake	1 portion	 DEFROST (P1)	30 s	30 s
<b>Reheating from Cooked Chilled</b>	Lasagne	325 g	 HIGH (P10)	5 min 30 s	4 min
	Chilli	325 g		3 min 30 s	3 min
	Apple Pie	1 portion		20 s	16 s
	Pepper Sauce	100 ml		1 min	50 s
	Baked Beans	100 ml		1 min	50 s
	Soup	125 ml		1 min 20 s	56 s

- HINTS:**
- Do not cook/reheat/defrost directly onto the base of the oven — use a suitable container.
  - When defrosting **multi portions** of foods, turn over and break apart halfway through defrost time to allow better penetration of microwave energy.
  - **Solid/dense foods** should not be cooked from frozen as they will be overcooked round the edges before the centre has reached the required temperature.
  - **Cover** dishes where appropriate during cooking/reheating. This will retain moisture and prevent splashing/spillages.
  - Loosen lids/pierce clingfilm before cooking/reheating covered foods.
  - **Stir** or **shake** foods halfway through cooking/defrosting time to distribute the heat evenly.
  - Allow a **Stand Time** before food temperature is checked and/or offered for consumption.



# Self Diagnostics Failure Code Explanation

This oven monitors its operation and displays a Failure Code in the Digital Display Window when a problem occurs.

## What to do when a failure code appears:

Unplug the oven and wait more than 10 seconds before reconnecting.

If normal operation does not resume, follow the chart below.

CODE	PROBLEM	WHAT TO DO (BELOW)
F01	Temperature of exhaust air too High	1./2./3./4./5.
F33	Defective Thermistor Circuit	1./5.
F44	Defective Control Panel	1./5.
F81–82	Defective Relay Circuit	5./6./7.
F86–87	Defective Relay Circuit	1./5.
U30	Memory cooking has exceeded the maximum time during double quantity and triple quantity setting.	Check and change the time. —See page 19, step 5 “Note”.

1. Oven shuts off automatically. Disconnect the power cord from the wall socket.
2. Oven beeps continuously.
3. Oven resets for operation when cool.
4. Move oven to cooler location.
5. If problem persists call service agent.
6. Oven will operate even if failure code appears, just not as designed. Call service agent.
7. Touch Stop/Reset Pad and try again.

**Note:** Above Codes shown in the display do not indicate all the possible failures on the unit.

# Installation Instructions for Stacking

## Important

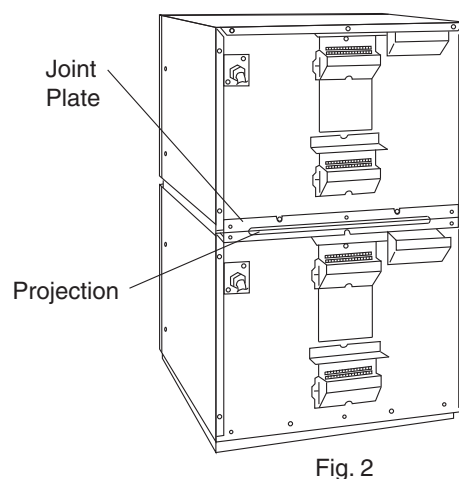
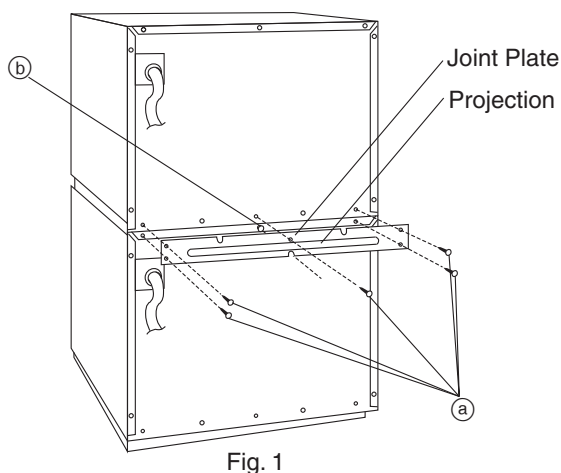
1. Disconnect the power cord from the wall socket before attempting installation.
2. For stacking installation, you must use the Panasonic Joint Plate A1134-3280 (Available via service route).
3. Combination of the unit for stacking is limited within only the following models.  
NE-1843, NE-1853
4. Do not stack more than one oven above bottom oven.

## Preparation







Be sure the oven cavity is empty.

## Installation

1. Stack the units and remove five screws (a) as shown in Fig. 1.
2. Loosen the screw (b).
3. The projection on the Joint Plate must face away from the oven. Place the Joint Plate on the screw (b).
4. Attach and tighten five screws (a) and the screw (b). See Fig. 2.
5. Ensure the top oven is at a safe and workable height.

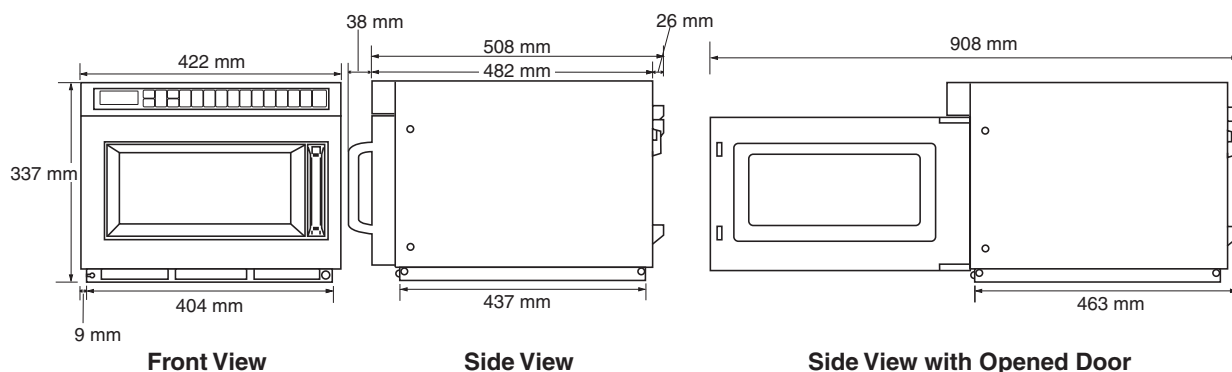


# Technical Specifications

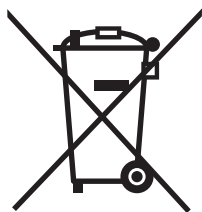
		NE-1843	NE-1853
Power Source		50 Hz, single phase 230–240 V	50 Hz, single phase 230–240 V
Required Power		12.3 A 2830 W	12.3 A 2830 W
Output*	HIGH	 1800 W*	P10: 1800 W*
	MEDIUM HIGH	————	P9: 90% P8: 80% P7: 70% P6: 60%
	MEDIUM	 900 W	P5: 50% P4: 40%
	LOW	————	P3: 30% P2: 25%
	DEFROST	 340 W	P1: 340 W
	OFF	————	P0: 0%
	HEAT FROM TOP DOWN	————	PU1: 50% PU2: 25%
	HEAT FROM BOTTOM	————	PL1: 50% PL2: 25%
Frequency		2450 MHz	2450 MHz
Outside Dimensions (W×D×H)		422 mm×508 mm×337 mm	422 mm×508 mm×337 mm
Cavity Dimensions (W×D×H)		330 mm×310 mm×175 mm	330 mm×310 mm×175 mm
Net Weight		30.0 kg	30.0 kg
Timer		Maximum programmable time for heating  =25 minutes  ,  =30 minutes	30 minutes (digital)/10 touch pads Maximum programmable time for single stage heating P1 and P0=30 minutes P10–P2, PU1–PL2=15 minutes

## \*IEC Test Procedure

Specifications subject to change without notice.



## Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)



This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.

For proper treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some countries you may be able to return your products to your local retailer upon the purchase of an equivalent new product.

Disposing of this product correctly will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. Please contact

your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

## For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

## Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

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