## Panasonic

Owner's Manual Microwave Oven Household Use Only Model No. NN-ST676S



PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE USING THIS PRODUCT, AND SAVE THIS MANUAL FOR FUTURE USE. Inverser le manuel pour lire les instructions en français.

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## **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 aithor the word "DANGER", "WARNING" or "CALITION". These

either the word "DANGER", "WARNING" or "CAUTION". These words mean:

## 



CAUTION

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

You can be killed or seriously injured if

you don't follow instructions. CAUTION indicates a potentially haz-

ardous 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 opendoor 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 electric appliance, 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 EXPO-SURE TO EXCESSIVE MICROWAVE ENERGY," found on page 1.
- 3. This appliance must be grounded. Connect only to a properly grounded outlet. See "GROUNDING INSTRUCTIONS" found on page 6.
- 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 5, 6.
- 6. DO NOT cover or block any openings on this appliance.
- 7. DO NOT store this appliance outdoors. DO NOT use this product near water - for example, near a kitchen sink, in a wet basement, or near a swimming pool or similar locations.
- 8. Use this appliance only for its intended use as described in this manual. DO **NOT** use corrosive chemicals, vapors or non-food products in this appliance. This type of oven is specifically designed to heat, or cook food. It is not designed for industrial or laboratory use. The use of corrosive chemicals in heating or cleaning will damage the appliance and may result in radiation leaks.
- 9. When cleaning surfaces of the door and oven that come together upon closing the door, use only mild, non-abrasive soaps or detergents applied with a sponge or soft cloth.
- 10. DO NOT allow children to use this appliance, unless closely supervised by an adult. DO NOT assume that because a child has mastered one cooking skill he/she can cook everything.
- 11. HOT CONTENTS CAN CAUSE SEVERE BURNS. DO NOT ALLOW CHILDREN TO USE THE MICROWAVE. Use caution when removing hot items.
- 12. 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.
- 13. **DO NOT** immerse cord or plug in water.
- 14. Keep cord away from heated surfaces.
- 15. **DO NOT** let cord hang over edge of a table or counter.

## IMPORTANT SAFETY INSTRUCTIONS (continued)

- This appliance should be serviced only by qualified service personnel. Contact the nearest authorized service center for examination, repair or adjustment.
- 17. 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.
- 18. 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.

#### 19. Superheated Liquids

Liquids, such as water, coffee, or tea are able to be overheated beyond the boiling point without showing evidence (or signs) of boiling. Visible bubbling is not always present when the container is removed from the microwave oven. THIS COULD RESULT IN VERY HOT LIQUIDS SUDDENLY BOILING OVER WHEN THE CONTAINER IS DISTURBED OR A UTENSIL IS INSERTED INTO THE LIQUID.

To reduce the risk of injury to persons:

- (a) STIR THE LIQUID BOTH BEFORE AND HALFWAY THROUGH HEATING IT.
- (b) DO NOT heat water and oil, or fats together. The film of oil will trap steam, and may cause a violent eruption.
- (c) **DO NOT** use straight-sided containers with narrow necks.
- (d) After heating, allow the container to stand in the microwave oven for a short time before removing the container.
- 20. **DO NOT** cook directly on the turntable. It can crack, cause injury or damage to the oven.

## IMPORTANT SAFETY INSTRUCTIONS

(continued)

## 

### 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 ARCING DAMAGE OR FIRE:

 DO NOT operate the microwave oven empty, cook small food portions unattended, or use metal containers. When using the microwave oven without water or food, or cook too small a serving, microwave energy cannot be absorbed and will continuously reflect throughout the cavity. This will cause arcing and damage the oven cavity, door or other con





- cause arcing and damage the oven cavity, door or other components.
- 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. The wire rack is designed for use only in the browning mode and will be hot after use. Care in handling must be exercised.

## SAVE THESE INSTRUCTIONS

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

### **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 touch 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, on a rack set in a microwave safe dish.
- 6. If food or utensils on the Glass Tray touch oven walls, causing the tray to stop moving, the tray will automatically rotate in the opposite direction.

### IMPORTANT SAFETY INSTRUCTIONS (continued)

### **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.

## 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.

### Placement of Oven

- 1. The oven must be placed on a flat, stable surface. Place the front surface of the door 7.6 cm (3 inches) or more from the counter top edge to avoid accidental tipping of the microwave oven during normal use. For proper operation, the oven must have sufficient air flow. Allow 7.6 cm (3 inches) of space on both sides of the oven and 5 cm (2 inches) of space on top of the oven.
  - (a) **DO NOT** block air vents. If they are blocked during operation, the oven may overheat and be damaged.
  - (b) **DO NOT** place oven near a hot, damp surface such as a gas or electric range, or dishwasher.
  - (c) **DO NOT** operate oven when room humidity is excessive.
- 2. This oven is manufactured for household use only. It is not approved or tested for mobile vehicle, marine, or commercial use.

### Installation

- 1. **DO NOT** block air vents. If they are blocked during operation, the oven may overheat. If the oven overheats, a thermal safety device will turn the oven off. The oven will remain inoperable until it has cooled.
- 2. If the oven is designed for installation into a wall cabinet, only use the proper Panasonic trim kit available from a local Panasonic dealer, or online from the Panasonic Canada eStore. Follow all instructions packed with the trim kit.
- 3. Use of a non-Panasonic trim kit will void the Manufacturer's warranty for the Microwave oven.

## 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. If it is necessary to use an extension cord, use only a three wire extension cord that has a three-prong polarized grounding plug, and a three-slot receptacle that will accept the plug of the appliance. The marked rating of the extension cord should be equal to or greater than the electrical rating of the appliance.

# INSTALLATION AND GROUNDING INSTRUCTIONS (continued)

### **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.

### **Power Supply**

- 1. A short power-supply cord is provided to reduce the risks resulting from becoming entangled in or tripping over a longer cord.
- 2. Longer cord sets or extension cords may be used if care is exercised in their use. **DO NOT** let cord hang over edge of a table or counter.
- 3. If a long cord or extension cord is used,
  - The marked electrical rating of the cord set or extension cord should be at least as great as the electrical rating of the appliance.
  - The extension cord must be a grounding-type 3-wire cord.
  - The longer cord should be arranged so that it will not drape over the counter top or tabletop where it can be pulled on by children or tripped over accidentally.

#### Wiring Requirements

- 1. The oven must be operated on a SEPARATE CIRCUIT. No other appliance should share the circuit with the microwave oven. If it does, the branch circuit fuse may blow or the circuit breaker may trip.
- 2. The oven must be plugged into a 15 AMP or 20 AMP, 120 VOLT, 60 Hz GROUNDED OUTLET. (Beginning in 2017, all new construction and all renovated single family homes must have at least a 20 A, 120 VOLT, 60 Hz GROUNDED OUTLET). Where a standard two-prong outlet is encountered, it is the 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 / WIRELESS EQUIPMENT INTERFERENCE

This product has been tested and found to comply with the limits for Microwave Oven. This product can radiate radio frequency energy, which could cause interference to such products as radio, TV, baby monitor, cordless phone, Bluetooth, wireless router, etc., which can be confirmed by turning this product off and on. If present, the user is encouraged to try to correct by taking one or more of the following countermeasures: (1) Increase the spacing distance between the microwave oven and other product

- receiving the interference.
- (2) If possible, use a properly installed receiver antenna and/or reorient the receiving antenna of the other product receiving the interference.
- (3) Plug the microwave oven into a different outlet from the other product receiving the interference.
- (4) Clean door and sealing surfaces of the oven. (See Care and Cleaning of Your Microwave Oven)

## **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.
- **DO NOT** prepare small food portions at high power. This can cause energy concentration at a fixed spot, which can lead to arcing and damage to your oven. Select a lower cook power setting when preparing small portions.

## 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 18). 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.

## SAFETY PRECAUTIONS (continued)

## 5) GLASS TRAY / COOKING CONTAINERS / FOIL

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

### 6) PAPER TOWELS / CLOTHS

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

## 7) BROWNING DISHES / OVEN COOKING BAGS

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

### 8) THERMOMETERS

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

### 9) BABY FORMULA / BABY FOOD

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

## **10) REHEATING PASTRY PRODUCTS**

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

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

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



**Cookware Guide** 

Item	Microwave	Comments
Aluminum Foil	Yes for Shielding	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
Browning Dish	only Yes	to oven wall or door and damage to your oven will result. Browning dishes are designed for microwave cooking only. Check browning dish information for instructions and heating chart. Do not preheat for more than 6 minutes.
Brown paper bags	No	May cause a fire in the oven.
Dinnerware: Labeled "Microwave Safe"	Yes	Check manufacturers' use and care directions for use in microwave heating. Some dinnerware may state on the back of the dish, "Oven-Microwave Safe".
Unlabeled Dinnerware	?	Use CONTAINER TEST blew.
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	Yes	Metal handle may cause arcing and create a fire hazard.
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 & Ceramic	Yes	Ideal for microwave cooking and browning. (See <b>CONTAINER TEST</b> blew)
Metal Bakeware	No	Not recommended for use in microwave ovens. Metal can cause arcing and damage to your oven.
Metal Twist-Ties	No	May cause arcing which could cause a fire in the oven.
Oven Cooking Bag	Yes	Follow manufacturers' directions. Close bag with the nylon tie provided, a strip cut from the end of the bag, or a piece of cotton string. Do not close with metal twist-tie. Make six 1 cm (½-inch) slits near the closure.
Paper Plates & Cups	Yes	Use to warm cooked foods, and to cook foods that require short cooking times such as hot dogs in the microwave mode.
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 or create a fire hazard.
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 in the microwave mode only.

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.



## Care and Cleaning of Your Microwave Oven

**Caution:** After cooking, the oven should be cleaned with a soft cloth moistened with soapy water. If the oven is not cleaned occasionally to eliminate grease, it can accumulate and cause the oven to "Smoke and fire" during use.

#### **BEFORE CLEANING:**

Unplug oven at wall outlet. If outlet is inaccessible, leave oven door open while cleaning.

#### 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.

#### Label:

Do not remove, wipe with a damp cloth.

#### 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.

#### Glass Tray:

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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.

#### 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.

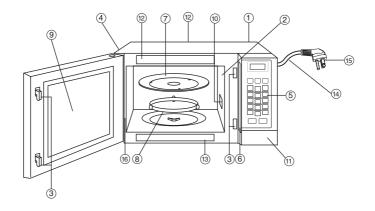
#### Roller Ring and oven cavity floor:

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.

Do not remove waveguide cover: It is important to keep cover clean in the same manner as the inside of the oven. Failure to do so may damage the cover.

AS WITH ANY COOKING APPLIANCE, MICROWAVE OVENS REQUIRE THE SAME LEVEL OF CARE TO PREVENT OVERHEATING OR DAMAGE. IT IS IMPORTANT TO KEEP THE OVEN CLEAN AND DRY. FOOD RESIDUE AND CONDENSATION MAY CAUSE RUSTING OR ARCING AND DAMAGE TO THE OVEN. AFTER USE, WIPE DRY ALL SURFACES, INCLUDING VENT OPENINGS, OVEN SEAMS, AND UNDER GLASS TRAY.

## **Oven Components Diagram**



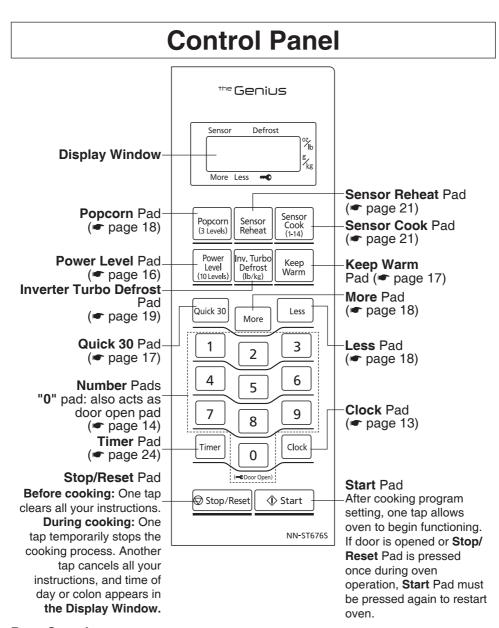
- **① External Air Vent**
- ② Internal Air Vent
- **3 Door Safety Lock System**
- (4) Exhaust Air Vent
- **(5) Control Panel**
- **6 Identification Plate**
- **⑦** Glass Tray
- **8 Roller Ring**
- Heat/Vapor Barrier Film (do not remove)

- Waveguide Cover (do not remove)
- Door Release Button
- 12 Warning Label
- **13 Warning Label**
- **14 Power Supply Cord**
- **(5) Power Supply Plug**
- **16 Door hinges**

To prevent injury when opening or closing the door, keep fingers away from the door hinges.

#### NOTES:

- 1. The illustration is for reference only.
- 2. You can paste the provided label which was put with this manual on the oven door or on the top of the oven.



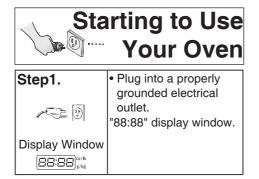
#### Beep Sound:

When a pad is pressed correctly, a beep will be heard.

If a pad is pressed and no beep is heard, the unit did not or cannot accept the instruction. When operating, the oven will beep twice between programmed stages. At the end of any complete program, the oven will beep 5 times.

#### Note:

- If there is no operation for 6 minutes after setting cooking program, the oven will automatically cancel the cooking program. The display will return to clock or colon display.
- If no beep sound is heard, check "beep ON/OFF" function feature (see page 15).





Step1.	Press <b>Clock</b> once. ►Colon flashes.
Step2.	<ul> <li>Set time of day using the number pads.</li> <li>Time appears in the display window; colon continues flashing</li> </ul>
Step3.	<ul> <li>Press Clock.</li> <li>Colon stops flash- ing; time of day is entered.</li> </ul>

#### NOTES:

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

## Child Safety Lock

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

To set:	<ul> <li>Press Start 3 times. The indication light "▼" appears in the display window.</li> <li>The indication light continues to be displayed until Child Lock is cancelled. Keypads may be pressed but the microwave will not start.</li> </ul>
To Cancel:	<ul> <li>Press Stop/Reset         <ul> <li>3 times.</li> <li>The display will             return to colon or             time of day when             Child Lock has been             cancelled.</li> </ul> </li> </ul>

#### NOTES:

- 1. You can set the Child Lock feature when the display shows a colon or time of day.
- 2. To set or cancel child safety lock, **Start** or **Stop/Reset** button must be pressed 3 times within 10 seconds.



## Setting the Child Safety Door Lock

Your microwave is equipped with an electronic child-safety function, to be more precise: the door lock function, which enables the oven door to be "locked" so that children or anyone unfamiliar with it cannot operate it accidentally. Distinguishing from that of child safety lock, the door lock does not lock access to the microwave function, it simply prevents burning by opening the door accidentally. Specifically, the electronic child-safety door lock is activated or deactivated through specific buttons on the control panel.

When plugged in, the door lock is automatically activated as soon as cooking starts. The window flashes "▼ " to indicate that the oven is locked. Follow below sequences to unlock the door, which must be finished within 10 seconds. If there is not any operation within 30 minutes from the end of cooking, the door would be unlocked automatically.

## To unlock the oven during or after cooking:

1. O	<ul> <li>Press the "0" pad</li></ul>
( Door Open)	once.
2. Press door release button, the oven door is now unlocked.	<ul> <li>Open the door and take out the food with special care.</li> </ul>

Simply leave the door lock feature disengaged if you don't need it temporarily, or follow the instruction to reactivate, the function setting should be under the circumstance that the oven door is unlocked and function setting must be finished within 10 seconds.

To deactivate: Inv. Turbo Defrost (lb/kg) ↓ Timer ↓ Popcorn (3 Levels)	<ul> <li>Press Inverter Turbo Defrost - Timer - Popcorn in sequence, a long beep will be heard.</li> <li>The door lock function is now invalid.</li> </ul>
To reactivate: Inv. Turbo Defrost (lb/kg) ↓ Timer ↓ Popcorn (3 Levels)	<ul> <li>Press Inverter Turbo Defrost - Timer - Popcorn in sequence, the window will flash</li> <li>♥ " or replug the oven.</li> <li>&gt; Both ways can reactivate the function.</li> </ul>

#### Note:

You can deactivate/reactivate the Child Safety Door Lock feature when the display shows a "colon" or time of day.



## **Function Features**

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

This microwave oven has the functions below:

**LB/KG CHOICE:** The oven has both imperial and metric weight measurements. **BEEP CHOICE:** The oven has both Beep On and Beep Off mode.

Plug into a properly grounded electrical outlet.			
	① Start		
LB/KG CHOICE	<ul> <li>Press Start once. The oven automatically defaults to the imperial measure system (LB).</li> </ul>	<ul> <li>Press <b>Timer</b> once to choose metric weight measurements (KG).</li> </ul>	
BEEP CHOICE	<ul> <li>Press Start twice. The default mode is Beep On.</li> </ul>	Timer     Tress <b>Timer</b> once. The mode changes to Beep Off.	
Press Stop/Reset pad to exit			

**NOTES:** These choices can be selected only when you plug-in the oven.

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

NO	<b>NOTE:</b> After setting, it will revert back to the metric weight measurement setting if <b>Start</b> pad is pressed again. Press <b>Stop/Reset</b> pad to exit.		
5.	Timer	Press <b>Timer</b> once. The mode changes to Beep Off.	
4.	🕼 Start	Press Start once to Beep Choice.	
3.	Timer	<ul> <li>Press Timer once to choose metric weight measurements (KG).</li> </ul>	
2.	🕼 Start	• Press Start once.	
1.		<ul> <li>Plug into a properly grounded electrical outlet.</li> </ul>	

Microwave Power & Cook Time			
Example:	To coo power	ok at P 6 (MEDIUM) for 1 minute 30 seconds	
Step1. Power Level (10 Levels) Press 5 times		• Press <b>Power Level</b> until the desired power level appears in the display window.	
<b>Step2.</b> 1 3 0		• Set Cooking Time using number pads to 1 minute and 30 seconds.	
Step3.		<ul> <li>Press Start.</li> <li>Cooking will start. The time in the display window will count down.</li> </ul>	
Press		Power Level	
once twice 3 times 4 times 5 times 6 times 7 times 8 times 9 times 10 times	P10 (HIGH) P9 P8 P7 (MEDIUM-HIGH) P6 (MEDIUM) P5 P4 P3 (MEDIUM-LOW)/DEFROST P2 P1 (LOW)		

#### NOTES:

- 1. For more than one stage cooking, repeat steps 1 and 2 for each stage of cooking before pressing **Start** Pad (see right side for reference).
- 2. When using P10 (HIGH) power for the first stage, you may skip step1.
- 3. 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.**
- 4. For reheating, use P10 (HIGH) for liquids, P7 (MEDIUM-HIGH) for most foods and P6 (MEDIUM) for dense foods.
- 5. For defrosting, use P3 (MEDIUM-LOW).

**DO NOT OVERCOOK.** This oven requires less time to cook than an older unit. Overcooking 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. **Caution:** 

**DO NOT** defrost food at a high power setting. Doing so can cause energy concentration at a focused point, which can lead to arcing and damage to the oven. Use the "Defrost" function instead.

## 3-Stage Cooking

This feature allows you to program 2-3 Stages of cooking continuously.

Example: Continually set P10 for 5 minutes, P7 for 3 minutes and P4 for 5 minutes.	
Step1. Power Level (10 Levels) Press once	• Enter the desired <b>Power level</b> .
Step2. 500 Press	<ul> <li>Set Cooking Time using number pads to 5 minutes.</li> </ul>
Step3. Power Level (10 Levels) Press 4 times	• Enter the desired <b>Power level</b> .
Step4. 3 0 0 Press	<ul> <li>Set Cooking Time using number pads to 3 minutes.</li> </ul>
Step5. Power Level (10 Levels) Press 7 times	• Enter the desired <b>Power level</b> .
<b>Step6.</b> 500 Press	<ul> <li>Set Cooking Time using number pads to 5 minutes.</li> </ul>
Step7.	<ul> <li>Press Start.</li> <li>Cooking will start. The time in the display window will count down.</li> </ul>

#### NOTES:

- 1. The maximum number of stages for cooking is 3.
- 2. When selecting P10 (HIGH) power for the first stage, you may skip step1.
- 3. When operating, two beeps will sound between each stage. Five beeps will sound at the end of the entire sequence.
- Inverter turbo defrost, sensor or other auto features can not be used with 3 stage cooking.



This feature allows you to set or add cooking time in 30 seconds increments up to 5 minutes.

### To Set Cooking Time:

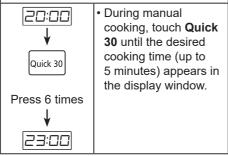
Example: To cook at P6 (MEDIUM) pow- er for 1 minute 30 seconds		
Step1. Quick 30	<ul> <li>Press Quick 30 until the desired cooking time (up to 5 minutes) appears in the display window. Power Level is pre-set at P10.</li> </ul>	
Step2.	• Press <b>Start</b> . Cooking begins and the time will count down. At the end of cooking, 5 beeps sound.	

#### NOTES:

- 1. If desired, you can use other power levels. Select desired power level before setting cooking time.
- 2. After setting the time by **Quick 30** Pad, you cannot use Number Pads.
- 3. Quick 30 Pad can be used to add more time during manual cooking.

## To Add Time using Quick 30:

#### Example: Add 3 minutes.





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

#### Example: To keep 2 cups of gravy warm

Step1.	• Press Keep Warm.
Keep Warm	
<b>Step2.</b> 0 Thru 9	<ul> <li>Set warming time, up to 30 minutes.</li> </ul>
Step3.	<ul> <li>Press Start.</li> <li>Keep Warm will start. The time in the display window will count down.</li> </ul>

#### NOTE:

**Keep Warm** can be programmed as the final stage after cook times have been manually entered. It cannot be used in combination with inverter turbo defrost sensor or auto features.

Рор	corn Feature	
Example: To pop	3.5 oz. (99 g) of popcorn	
Step1.	<ul> <li>Press <b>Popcorn</b> until the desired size appears in the display window.</li> </ul>	
	Press Weight	
Press once	once         3.5 oz. (99 g)           twice         3.0 oz. (85 g)           3 times         1.75 oz. (50 g)	
Step2. More or Less	(see <b>More/Less</b> Feature.)	
Optional		
Step3.	<ul> <li>Press Start.</li> <li>After several seconds, cooking time appears in the display window and begins to count down.</li> </ul>	

#### NOTES ON POPCORN FEATURE:

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

#### 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 time may vary slightly. This does not affect the popcorn results.

## - (m) - (m) More/Less Feature

#### For Popcorn:

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

More	: Adds time
	= Adds Approx. 10 secs.

More 2 = Adds Approx. 20 secs.

Less 1 = Subtracts time Less 1 = Subtracts Approx. 10 secs. Less 2 = Subtracts Approx. 20 secs. Press **More** Pad or **Less** pad before pressing **Start**.

#### For Sensor Reheat/Cook:

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



e : Adds time

More = Adds Approx. 20% time



#### : Subtracts time

Less = Subtracts Approx. 20% time Press **More** Pad or **Less** pad before pressing **Start**.

## Inverter Turbo Defrost Feature

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

#### Example: To Defrost 1.5 pounds of meat

Place food on microwave safe dish.

Step1. Inv. Turbo Defrost (Ib/kg)	Press Inverter Turbo     Defrost.
<b>Step2.</b>	<ul> <li>Set weight of the food, using the number pads.</li> </ul>
Step3.	<ul> <li>Press Start. Defrosting will start. The time will count down. Larger weight foods will cause a signal midway through defrosting. If 2 beeps sound, turn over, rearrange foods or shield with aluminum foil.</li> </ul>

### **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	Tenths of
	of a Pound	a Pound
0	.0105	0.0
1 - 2	.0615	0.1
3 - 4	.1625	0.2
5	.2635	0.3
6 - 7	.3645	0.4
8	.4655	0.5
9 - 10	.5665	0.6
11 - 12	.6675	0.7
13	.7685	0.8
14 - 15	.8695	0.9

#### Note:

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

## Defrosting Tips & Techniques

### Preparation for freezing:

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

### To Defrost:

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

#### After Defrosting:

1. Large items may be icy in the centre. Defrosting will complete during STANDING TIME.

- 2. Let stand, covered, following stand time directions on page 20.
- 3. Rinse foods as indicated in the chart.
- 4. Items which have been layered should be rinsed separately or have a longer tand time.

## [ **Defrosting Tips & Techniques** (continued)

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

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## Sensor Reheat Feature

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

Example: To reheat a plate of food	
Step1.	• Press <b>Sensor</b> Reheat.
Step2. More or Less Optional	(see More/Less Feature.) (  page 18)
Step3.	<ul> <li>Press Start.</li> <li>≻Cooking starts.</li> </ul>

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

#### NOTE:

**Casseroles** - Add 3 to 4 tablespoons of liquid, cover with lid or vented plastic wrap. Stir when time appears in the display window. **Canned foods** - Empty contents into casserole dish or serving bowl, cover dish with lid or vented plastic wrap. After reheating, let stand for a few minutes. **Plate of food** - Arrange food on plate; top with butter, gravy, etc. Cover with lid or vented plastic wrap. After reheating, let stand for a few minutes.

#### DO NOT USE SENSOR REHEAT

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



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

Example: To cook Frozen Entrées		
Step1.	• Press <b>Sensor Cook</b> until the desired food number appears on the display window	
Press 6 times		
Step2.	(see More/Less Feature.) (☞ page 18)	
Step3.	<ul> <li>Press Start.</li> <li>Cooking starts.</li> </ul>	
Cooking is comple	ete when 5 beeps	

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

## For the best results with the *GENIUS SENSOR*, follow these recommendations. **BEFORE** Reheating/Cooking:

- 1. The room temperature surrounding the oven should be below 35 °C (95 °F).
- 2. Food weight should exceed 110 g (4 oz.).
- 3. Be sure the glass tray, the outside of the cooking containers and the inside of the microwave oven are dry before placing food in the oven. Residual beads of moisture turning into steam can mislead the sensor.
- 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 for some menus. AFTER Reheating/Cooking:

All foods should have a stand time.



## **Sensor Cook Chart**

Recipe	Serving/Weight Hints	
1. Oatmeal	0.5 - 1 cup (40 - 80 g) Place inside a microwave safe serving bo no cover. Follow manufacturers' direction preparation.	
2. Breakfast Sau- sage	2 - 8 links pattern. Follow manufacturers' directions for preparation of precooked breakfast sausage. Place in a rad	
3. Omelet	2 - 4 eggs	Follow Basic Omelet recipe on page 23.
4. Quinoa	¼ - 1 cups (45 - 180 g)	Place quinoa in a microwave safe 3 qt casserole dish. Add 2 parts water to 1 part quinoa. Cover with lid or vented plastic wrap. After 2 beeps, stir. Let stand 14 minutes before serving.
5. Soup	1 - 2 cups (250 ml - 500 ml)	Pour soup into a microwave safe serving bowl. Do not cover. Stir after cooking.
6. Frozen Entrées	Follow manufacturers' directions for preparati After 2 beeps, stir or rearrange. Be careful wh (220 - 800 g) (8 - 28 oz.) facing away from you to avoid steam burns. If additional time is needed, continue to cook manually.	
7. Frozen Pizza (single)	220 g (8 oz.)	Follow manufacturers' directions for preparation. Add more time of cooking if needed.
8. Potatoes (pierce skin)	1 - 4 potatoes (170 - 220 g)Pierce each potato with a fork 6 times sp around surface. Place potato or potatoes a the edge of paper-towel-lined glass tray (Tu table), at least 1 inch (2.5 cm) apart. Do not er. Turn over after 2 beeps. Let stand 5 minuto to complete cooking.	
9. Fresh Vegetables	All pieces should be the same size. Wash th	
10. Frozen Vegetables	Wash thoroughly, add 1 tbsp. of water per $\frac{1}{2}$	
11. Rice	1/2 - 11/2 cups (110 - 335 g)Place rice with hot tap water in a microw cas-serole dish. Cover with lid or vented wrap. Let stand 5 to 10 minutes before s	
12. Frozen Dinners	300 - 450 g (11 - 16 oz.)	Follow manufacturers' directions for covering or removing covers. Do not use frozen foods packaged in foil trays. After 2 beeps, stir or rearrange.
13. Pasta	55 - 220 g (2 - 8 oz.)	Place 2 oz. pasta and 3 cups hot tap water in a microwave safe 2 qt casserole, salt and oil, if de- sired, covered with lid or vented plastic wrap. For 4 oz. pasta use 4 cups water, for 6 oz. pasta use 6 cups water in 3 qt casserole, for 8 oz. pasta use 7 cups water.
14. Fish Fillets	110 - 450 g (4 - 16 oz.)	Arrange in a single layer. Cover with lid or vented plastic wrap.

## **Microwave Recipes**

### OMELET

#### Basic omelet

- 1 tablespoon butter or margarine
- 2 eggs
- 2 tablespoons milk

salt and ground black pepper, if desired Heat butter in a microwave-safe 23 cm (9inch) pie plate, 20 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

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

## CASSEROLE

Shepherd's Pie

450  $\,\mathrm{g}$  (1 pound) lean ground beef

- 1/2 cup frozen peas, thawed
- <sup>1</sup>/<sub>4</sub> 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 5-7 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 16-18 minutes. **Yield:** 4 servings

### Macaroni and Cheese

- <sup>1</sup>/<sub>4</sub> 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
- $\ensuremath{$  220  $\ensuremath{\,g}$  (8 oz.) (dry weight) macaroni, cooked and drained
- ⅓ cup bread crumbs
- 1 teaspoon paprika

In a 2-qt. casserole dish, melt the butter for 40 seconds at P10. Add onion and garlic and cook for 1 minute at P10. Stir in flour, mustard, salt and pepper, and gradually add the milk. Cook for 3-4 minutes at P10 until sauce thickens, stirring once. Add the cheddar cheese, stirring thoroughly. Pour and stir the sauce into the macaroni, in a 3-qt. casserole dish. Top with bread crumbs and paprika. Cover with lid or vented plastic wrap. Cook at P6 power for 16-18 minutes.

Yield: 6 servings

#### Beef and Macaroni Casserole

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

Crumble the ground beef in a 3-qt. casserole dish. Cook for 5-7 minutes at P6 or until the meat is cooked, stirring twice. Stir in onion, peppers and celery. Cook for 3-4 minutes at P10. Stir in the remaining ingredients, except cheese. Cover with lid or vented plastic wrap. Cook at P6 power for 16-18 minutes. Sprinkle with cheese. Cover and let stand 5 minutes. **Yield**: 4-6 servings

#### Tuna Casserole

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

In a 3-qt. casserole dish, combine tuna, noodles, soup, mushrooms, peas and milk; mix well. Cover with lid or vented plastic wrap. Cook at P6 power for 16-18 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.

#### CAUTION:

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

### To Use as a Kitchen Timer:

Example: To count down 5 minutes.

Step1. • Press Timer once.	
Timer	
<b>Step2</b> . 5 0 0	<ul> <li>Set desired amount of time using number pads.</li> </ul>
Step3.	<ul> <li>Press Start.</li> <li>Time will count down without oven operatings.</li> </ul>

### To Set Stand Time:

Example: To cook at P6 power for 3 minutes, with stand time of 5 minutes.		
Step1. Power (10 Levels) Press 5 times	• Enter the desired <b>Power level</b> (see page 16 for directions).	
<b>Step2</b> . 3 0 0	<ul> <li>Set desired cooking time using number pads.</li> </ul>	
Step3.	Press Timer once.	
<b>Step4</b> . 5 0 0	<ul> <li>Set desired amount of Stand Time using number pads.</li> </ul>	
Step5.	<ul> <li>Press Start.</li> <li>Cooking will start.</li> <li>After cooking, stand time will count down without oven operating.</li> </ul>	



## **Timer Feature**

(continued)

### To Set Delay Start:

Example: To delay the start of cooing for 5 minutes, and cook at P6 power for 3 minutes.		
Step1.	Press Timer once.	
<b>Step2</b> .	<ul> <li>Enter desired amount of delay time using number pads.</li> </ul>	
Step3. Power Level (10 Levels) Press 5 times	• Enter the desired <b>Power level</b> (see page 16 for directions).	
<b>Step4</b> .	<ul> <li>Set desired cooking time using number pads.</li> </ul>	
Step5.	<ul> <li>Press Start.</li> <li>Delay time will count down. Then cooking will start.</li> </ul>	

### NOTES:

- 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.
- Stand time and Delay start cannot be programmed before inverter turbo defrost, sensor or other auto features. This is to prevent the starting temperature of food from rising before defrosting or cooking begins. A change in starting temperature could cause inaccurate results.
- 4. The maximum programmable time of Standing Time, Kitchen Time or Delay Time is up to 99 minutes and 99 seconds.
- 5. The Standing time or Delay start feature can only be added to a 2-cycle cooking sequence.



## **Microwave shortcuts**

FOOD	POWER	TIME (in mins.)	DIRECTIONS
To separate refrigerated <b>Bacon</b> , 450 g (1 pound)	P10 (HIGH)	30 sec.	Remove wrapper and place in microwave safe dish. After heating, use a plastic spatula to separate slices.
To soften <b>Brown Sugar</b> 250 ml (1 cup)	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, 110 g (¼ pound)	P3 (MED-LOW)	1	Remove wrapper and place butter in a microwave safe dish.
To melt refrigerated <b>Butter</b> , 1 stick, 110 g (¼ poundh)	P6 (MEDIUM)	1½ - 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, 28 g (1 oz.) To melt <b>Chocolate</b> , 125 ml (½ cup) chips	P6 (MEDIUM) P6 (MEDIUM)	1 - 1½ 1 - 1½	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 toast <b>Coconut</b> , 125 ml (½ cup)	P10 (HIGH)	1	Place in a microwave safe dish. Stir every 30 seconds.
To soften <b>Cream Cheese</b> , 225 g (8 oz.)	P3 (MED-LOW)	1 - 2	Remove wrapper and place in a microwave safe bowl.
To brown <b>Ground Beef</b> , 450 g (1 pound)	P10 (HIGH)	4 - 5	Crumble into a microwave safe colander set into another dish. Cover with plastic wrap. Stir twice. Drain grease.
To cook <b>Vegetables,</b> Fresh (225 g) (½ pound)	P8	3½ - 4	All pieces should be the same size. Wash thoroughly, add 1 tbsp of water per ½ cup of vegetables, and cover with lid or vented plastic wrap. Do not salt/butter until after cooking.
Frozen (280 g) (10 oz.)	P8	3½ - 4	Wash thoroughly, add 1 tbsp of water per 1/2 cup of vegetables, and cover with lid or vented plastic wrap. Do not salt/butter until after cooking. (Not suitable for vegetables in butter or sauce.)
Canned (430 g) (15 oz.)	P8	3½ - 4	Empty contents into microwave safe serving bowl. Cover with lid or vented plastic wrap.



## Microwave shortcuts

(continued)

FOOD	POWER	TIME (in mins.)	DIRECTIONS
To cook baked <b>Potato</b> , (170 - 220 g) (6 - 8 oz. each) 1	P8 P8	3½ - 4 6 - 7	Pierce each potato with a fork 6 times spac- ing around surface. Place potato or potatoes around the edge of paper-towel-lined glass tray (Turntable), at least 2.5 cm (1 inch) apart. Do not cover. Let stand 5 minutes to complete cooking.
To steam <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> , 2 qt. (½ gallon)	P3 (MED-LOW)	1 - 1½	Check often to prevent melting.
Cup of liquid <b>To boil water, broth,</b> etc. 1 cup, 250 ml (8 oz.) 2 cups, 500 ml (16 oz.)	P10 (HIGH)	1½ - 2 2½ - 3	Heated liquids can erupt if not stirred.
Cup of liquid <b>To warm Beverage</b> , 1 cup, 250 ml (8 oz.) 2 cups, 500 ml. (16 oz.)	P7 (MED-HIGH)	1½ - 2 2½ - 3	Do not heat liquids in microwave oven without stirring before heating.
To roast <b>Nuts</b> , 375 ml (1½ cups)	P10 (HIGH)	3 - 4	Spread nuts into a 23 cm (9-inch) microwave safe pie plate. Stir occasionally.
To toast <b>Sesame Seeds</b> , 60 ml (¼ cup)	P10 (HIGH)	2 - 2½	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</b> Odours	P10 (HIGH)	5	Combine 1 to $250 - 375$ ml ( $1\frac{1}{2}$ cups) 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. You can also use a combi- nation of several whole cloves and $\frac{1}{4}$ cup of vinegar with 1 cup of water.

## **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 al-



low 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.



## Cooking Techniques

(continued)

### Covering

As with conventional cooking, moisture evaporates during microwave cooking. Casserole lids or plastic wrap are used for a tighter seal. When using plastic wrap, vent the plastic wrap by folding back part of the plastic wrap from the edge of the dish to allow steam to escape. Loosen or remove plastic wrap as recipe directs for stand time. When removing plastic wrap covers, as well as any glass lids, be careful to remove them 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 3 °C to 8 °C (5 °F to 15 °F), if allowed to stand, tented with foil, for 10 to 15 minutes. Casseroles and vegetables need a shorter amount of standing time, but this standing time is necessary to allow foods to complete cooking to the 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 at the recommended temperatures.

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

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



## **Before Requesting Service**

## (These things are normal:

•				
The oven causes interference with my TV.		ference is similar to the interf	quipment interference might e microwave oven. This inter- erence caused by small appli- ms, blow dryers, etc. It does not	
Steam accumulates on the oven door and warm air comes from the oven vents.		During cooking, steam and warm air are given off from the food. Most of the steam and warm air are removed from the oven by the air which circulates in the oven cavity. However, some steam will condense on cooler surfaces such as the oven door. This is normal. After use, the oven should be wiped dry (see page 10).		
PROBLEM		POSSIBLE CAUSE	REMEDY	
		The oven is not plugged in securely.	Remove plug from outlet, wait 10 seconds and re-insert.	
Oven will not turn on.	→	Main circuit breaker or main fuse is tripped or blown.	Reset main circuit breaker or replace main fuse.	
		There is a problem with the outlet.	Plug another appliance into the outlet to check if it is working.	
		The door is not closed completely.	Close the oven door securely.	
		Start Pad was not pressed after programming.	Press <b>Start</b> Pad.	
Oven will not start cooking.	<b>→</b>	Another program is already entered into the oven.	Press <b>Stop/Reset</b> Pad to can- cel the previous program and enter new program.	
		The program is not correct.	Program again according to the Operating Instructions.	
		Stop/Reset Pad has been pressed accidentally.	Program oven again.	
The Glass Tray wobbles.	*	The Glass Tray is not positioned properly on the Roller Ring or there is food under the Roller Ring.	Take out Glass Tray and Roller Ring. Wipe with a damp cloth and reset Roller Ring and Glass Tray properly.	
When the oven is operating, there is noise coming from the glass tray.	<b>→</b>	The Roller Ring and oven bottom are dirty.	Clean these parts according to Care and Cleaning of your Microwave oven (see page 10).	
The indication light	<b>→</b>	The CHILD LOCK was activated.	Deactivate LOCK by pressing <b>Stop/Reset</b> Pad 3 times.	
The oven stops cooking and nothing appears in the display window.	<b>→</b>	If the Display Window is blank, there is a problem with the microwave genera- tion system.	Please contact an authorised Service Center (see page 31).	

## Warranty

#### Panasonic Canada Inc. 5770 Ambler Drive, Mississauga, Ontario L4W 2T3 Panasonic PRODUCT – LIMITED WARRANTY

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

Category	Service type	Parts	Labour	Magnetron
Counter top microwave oven (except Prestige models)	Carry-in	1 Year	1 Year	Additional 4 Years (Part only)
Counter top microwave oven – Prestige model (Genius Prestige, Genius Prestige Plus and Genius Prestige Grill)	In-home	2 Years	2 Years	Additional 3 Years (Part only)
Microwave Convection oven	In-home	2 Years	2 Years	Additional 3 Years (Part only)
Over The Range (OTR) microwave oven	In-home	2 Years	2 Years	Additional 3 Years (Part only)

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

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

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

#### LIMITATIONS AND EXCLUSIONS

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

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

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

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

#### WARRANTY SERVICE

#### PRODUCT OPERATION ASSISTANCE

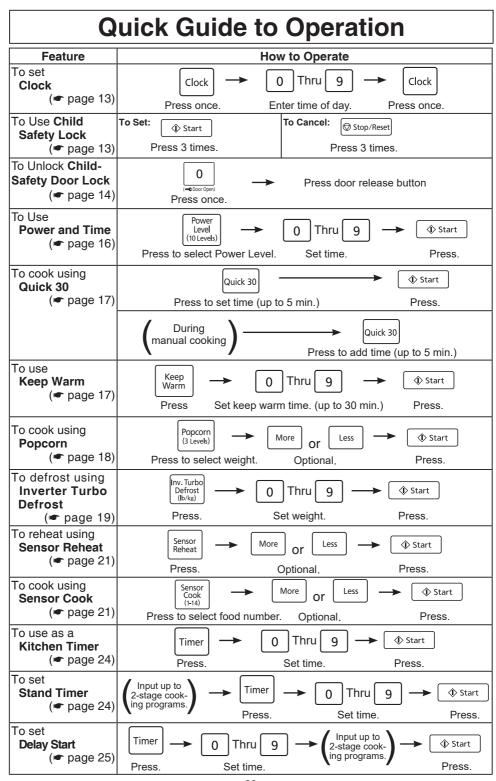
For product information and operation assistance, please visit our Support page:

#### www.panasonic.ca/english/support

#### **PRODUCT REPAIRS**

Please locate your nearest Authorized Servicentre: <u>panasonic.ca/english/support/servicentrelocator</u> IF YOU SHIP THE PRODUCT TO A SERVICENTRE

Carefully pack and send prepaid, adequately insured and preferably in the original carton. Include details of the defect claimed, and proof of date of original purchase.





## **Specifications**

Model Number		NN-ST676S
Power Source:		120 V 60 Hz
Power Consumption:	Microwave	12.4 A 1,480 W
Cooking Power:	Microwave*	1,200 W
Outside Dimensions		525 mm x 310 mm x 401 mm
(W x H x D):		(20 <sup>11</sup> / <sub>16</sub> " x 12 <sup>1</sup> ⁄ <sub>4</sub> " x 15 <sup>3</sup> ⁄ <sub>4</sub> ")
Overall Oven Cavity		355 mm x 251 mm x 365 mm
Dimensions (W x H x	D):	(14" x 9 <sup>7</sup> /8" x 14 <sup>3</sup> /8")
Operating Frequency		2,450 MHz
Net Weight:		Approx. 11.5 kg (25.4 lbs.)

### Trim Kit:

Model Number:	NN-TK621S
	(Stainless)
Outside Dimensions	684 mm x 419 mm
(W x H):	(27" x 16 ½")
Cabinet Opening	648 mm x 389 mm x 533 mm
(W x H x D):	(25 <sup>1</sup> /2" x 15 <sup>5</sup> /16" x 21")

\*IEC Test procedure

Specifications subject to change without notice.

## **User's Record**

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

Model No.

Serial No.

Date of Purchase