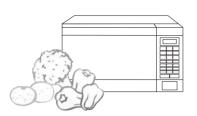


## **Panasonic**



## **Operating Instructions**

Microwave Oven Household Use Only Model No. NN-SA610S NN-SA710S

#### **Safety Information**

Precautionslr	nside cover
Important Safety Instruction	ı <b>s</b> 1-3
Installation and Grounding	
Instructions	4-5
Safety Precautions	6-7

## Operation

Control i anci	
Starting to Use Your Oven	11
Setting the Clock	11
Child Safety Lock	11
Selecting Power & Cook Time	12
Quick Min Feature	12
Keep Warm Feature	12
Popcorn Feature	13
More/Less Feature	13
Inverter Turbo Defrost Feature	14
Defrosting Tips & Techniques	14-15
Auto Reheat Feature	16
Auto Cook Feature	16

#### Operation

Timer Feature (Kitchen Timer/Star	nd
Time/Delay Start)	19
Microwave Shortcuts	20-21
Food Characteristics	22
Cooking Techniques	22-23
Quick Guide to Operation	27

#### **Maintenance**

Care and Cleaning of Your Microwa	ive
Oven	24
Accessory Purchases	24
Before Requesting Service	25
imited Warranty & Customer Servi	
Directory	26

#### **General Information**

Cookware Guide	8
Oven Components Diagram	
Specifications	
User's Record	29
Notos	30

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

Para instrucciones en español, voltee el libro.

For assistance, please call: 1-800-211-PANA(7262)

contact us via the web at: http://www.panasonic.com

Auto Cook Chart.....

(U.S.A and Puerto Rico)

For microwave oven safety reference, please visit FDA's webpage at: http://www.fda.gov/Radiation-EmittingProducts/ResourcesforYouRadiationEmittingProducts/Consumers/ucm142616.htm

> F00039R80AP IP0310-0 Printed in China

## **Microwave Oven Safety**

#### Your safety and the safety of others are very important.

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



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

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

### **A** DANGER

words mean:

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

## **AWARNING**

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

## **A** CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

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

# PRECAUTIONS TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

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

#### Thank you for purchasing a Panasonic Microwave Oven.

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

## **A** IMPORTANT SAFETY INSTRUCTIONS

## \_\_To reduce the risk of burns, electric shock, fire, injury to persons, or exposure to excessive microwave energy:

. Read all instructions before using this appliance.

- Read and follow the specific "PRECAUTIONS TO AVOID POSSIBLE EXPO-SURE TO EXCESSIVE MICROWAVE ENERGY," found on the inside front cover.
- 3. This appliance must be grounded. Connect only to a properly grounded outlet. See "GROUNDING INSTRUCTIONS" found on page 4.
- 4. As with any cooking appliance, **DO NOT** leave oven unattended while in use.
- 5. Install or locate this appliance only in accordance with the installation instructions found on page 4.
- 6. **DO NOT** cover or block any openings on this appliance.
- 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.
- When cleaning surfaces of the door and oven that come together on closing the door, use only mild, non-abrasive soaps or detergents applied with a sponge or soft cloth.
- DO NOT allow children to use this appliance, unless closely supervised by an adult. DO NOT assume that because a child has mastered one cooking skill he/she can cook everything.
- 11. **DO NOT** operate this appliance if it has a damaged cord or plug, if it is not working properly, or if it has been damaged or dropped.
- 12. **DO NOT** immerse cord or plug in water.
- 13. Keep cord away from heated surfaces.
- 14. **DO NOT** let cord hang over edge of a table or counter.
- 15. This appliance should be serviced only by qualified service personnel. Contact the nearest authorized service center for examination, repair or adjustment.

## **A** IMPORTANT SAFETY INSTRUCTIONS

(continued)

- 16. Some products such as whole eggs with or without shell, narrow neck bottles and sealed containers—for example, closed glass jars—may explode and should not be heated in this oven.
- 17. To reduce the risk of fire in the oven cavity:
  - (a) **DO NOT** overcook food. Carefully attend appliance when paper, plastic, or other combustible materials are placed inside the oven to facilitate cooking.
  - (b) Remove wire twist-ties from paper or plastic bags before placing bag in
  - (c) If material inside the oven ignites, keep oven door closed, turn oven off. and disconnect the power cord, or shut off power at the fuse or circuit breaker panel.
  - (d) **DO NOT** use the cavity for storage purposes. **DO NOT leave paper** products, cooking utensils or food in the cavity when not in use.
- 18. Superheated Liquids

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

To reduce the risk of injury to persons:

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



## **A** IMPORTANT SAFETY INSTRUCTIONS

(continued)

### **A WARNING**

#### TO AVOID THE RISK OF SHOCK:

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

#### TO REDUCE THE RISK OF EXPOSURE TO MICROWAVE ENERGY:

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

#### TO AVOID THE RISK OF FIRE:

- 1. DO NOT operate the oven empty. The microwave energy will reflect continuously throughout the oven causing overheating and damage, if food or water is not present to absorb energy.
- 2. **DO NOT** store flammable materials next to, on top of, or in the
- 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. Recyled 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.

### SAVE THESE INSTRUCTIONS

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

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

#### Roller Ring

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



## **A 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 three 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 3-inches (7.6 cm) of space on both sides of the oven and 1-inch (2.5 cm) of space on top of the oven.
  - (a) **DO NOT** block air vents. If they are blocked during operation, the oven may be overheated and 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 counter top household use only. It is not intended for built-in operation and is not approved or tested for mobile vehicle. marine, or commercial use.

#### Installation

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.

#### AWARNING

#### -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 on the appliance. The marked rating of the extension cord should be equal to or greater than the electrical rating of the appliance.

#### **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.



#### INSTALLATION AND GROUNDING INSTRUCTIONS (continued)

#### **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 are available and 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, (1) the marked electrical rating of the cord set or extension cord should be at least as great as the electrical rating of the appliance. (2) the extension cord must be a grounding-type 3-wire cord, and (3) 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

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

#### TV / Radio Interference

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



## **Safety Precautions**

Follow These Safety Precautions When Cooking in Your Oven.

#### **IMPORTANT**

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

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

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

#### 2) POPCORN

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

**CAUTION:** When using pre-packaged microwave popcorn, you can follow recommended package instructions or use the popcorn pad (refer to page 13). Otherwise, the popcorn may not pop adequately or may ignite and cause a fire. Never leave oven unattended when popping popcorn. Allow the popcorn bag to cool before opening, always open the bag facing away from your face and body to prevent steam burns.

#### 3) DEEP FAT FRYING

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

#### 4) FOODS WITH NONPOROUS SKINS

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

CAUTION: Cooking dry or old potatoes can cause fire.

## **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 1-inch (2.5 cm) of space between foil and interior oven walls or door.
- Dishes with metallic trim should not be used, as arcing may occur.

#### 6) PAPER TOWELS / CLOTHS

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

#### 7) BROWNING DISHES / OVEN COOKING BAGS

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

#### 8) THERMOMETERS

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

#### 9) BABY FORMULA / BABY FOOD

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

#### 10) REHEATING PASTRY PRODUCTS

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

#### 11) GENERAL OVEN USAGE GUIDELINES

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



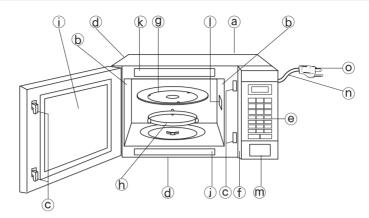
## **Cookware Guide**

Aluminum Foil Shielding only Shielding only only only only by prevent overcooking. Arcing can occur if foil is too close to oven wall or door and damage to you oven will result.  Browning Dish Yes Browning dishes are designed for microwave cooking only. Check browning dish information for instructions and heating chart. Do not preheat for more than 6 minute back of the dish, "Oven-Microwave Safe" 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 Pess Some frozen foods are packaged in these dishes. Can be purchased in grocery stores.  Fast Food Carton with Metal Handle No Metal can cause arcing and damage to your oven.  Heat Resistant Oven Glassware & Ceramics No Most glass jars are not heat resistant. Do not use for cooking or reheating.  Metal Twist-Ties No May cause arcing and damage to your oven.  Metal Twist-Ties No May cause arcing and damage to your oven.  Metal Twist-Ties No May cause arcing and damage to your oven.  Metal Twist-Ties No May cause arcing in the oven at one time.  Metal Twist-Ties No May cause arcing in the oven at one time.  Metal Twist-Ties No May cause arcing and damage to your oven.  Metal Twist-Ties No May cause arcing in the oven at one time.  Metal Twist-Ties No May cause arcing in the oven at one time.  Metal Twist-Ties No May cause arcing and damage to your oven.  Metal Twist-Ties No May cause arcing and damage to your oven.  Paper Plates & Cups Yes Ontrainer Tray No manufacturers' directions. Close bag with the nylo tie provided, a strip cut from the end of the bag, or a piec of cotton string. Do not close with metal twist-tie. Make si Ye-inch (1 cm) slits near the closure.  Use to warm colked foods, and to cook foods that required was a cover to prevent spattering. Safe for use in microwave use.  Recycled Paper Towels No May cause are the closure.  Use to warm rolls and sandwiches, only if labeled safe for microwave was plastic containers are not suitable on m	ITEM MICROWAVE COMMENTS		
Aluminum Foil Shielding only in the color of	ITEM	MICROWAVE	COMMENTS
Browning Dish  Yes only. Check browning dish information for instructions and heating chart. Do not preheat for more than 6 minute brown.  Brown paper bags No May cause a fire in the oven.  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 ?  Disposable polyester Paperboard Dishes Past Food Carton with Metal Handle Prozen Dinner Tray Metal Prozen Dinner Tray Metal Prozen Dinner Tray Microwave safe Yes Heat only 1 tray in the oven at one time.  Glass Jars No Most glass jars are not heat resistant. Do not use for cooking or reheating.  Heat Resistant Oven Glassware & Ceramics Yes Ideal for microwave cooking and browning.  Glassware & Ceramics No May cause arcing mylich could cause a fire in the oven.  Metal Twist-Ties No May cause arcing mylich could cause a fire in the oven.  Paper Plates & Cups Yes Use to warm cooked foods, and to cook foods that require short cooking times such as hot dogs.  Paper Towels & Napkins Yes Use to warm cooked foods, and to cook foods that require short cooking times such as hot dogs.  Pastic: Microwave Safe Yes, Use to warm cooked foods, and to cook foods that require short cooking times such as hot dogs.  Paper Towels & Napkins Yes Institute Pyes Institute	Aluminum Foil	Shielding	meat or poultry to prevent overcooking. Arcing can occur if foil is too close to oven wall or door and damage to your oven will result.
Dinnerware: Labeled "Microwave Safe"  Ves "Microwave Safe"  Ves Disposable polyester Paperboard Dishes Fast Food Carton with Metal Handle Frozen Dinner Tray Microwave safe Glass Jars  No Metal can cause arcing and damage to your oven.  Frozen Dinner Tray Microwave Safe Glass Jars  No Most glass jars are not heat resistant. Do not use for cooking or reheating.  Heat Resistant Oven Glassware & Ceramics  Metal Bakeware  No May cause arcing which could cause a fire in the oven.  Follow manufacturers' directions. Close with metal twist-tie. Make si '1/2-inch(1 cm) sits near the closure.  Paper Towels & Napkins  Recycled Paper Towels & Napkins  Parchment Paper  Plastic: Microwave Safe  Yes Suraw, Wicker, Wood Thermometers-  Ves Straw, Wicker, Wood Termometers-  Ves Chéck manufacturers' use and care directions for use in microwave microwave may date on the microwave safe meat and candy thermometers.  Chéck manufacturers' use and care directions for use in microwave safe.  Chéck manufacturers' directions  Metal Dinnerware  Paper Oven-Metal Handle No Metal andle may cause arcing.  Metal handle may cause arcing.  Metal or ly tray in the oven at one time.  Most glass jars are not heat resistant. Do not use for cooking or reheating.  Most glass jars are not heat resistant. Do not use for cooking or reheating.  (See CONTAINER TEST below)  Metal can cause arcing and damage to your oven.  Metal or use in microwave cooking and browning.  (See CONTAINER TEST below)  Most glass jars are not heat resistant. Do not use for cooking or reheating.  Most glass jars are not heat resistant. Do not use for cooking or reheating.  Most glass jars are not heat resistant. Do not use for cooking or theating.  Most glass jars are not sure immediate and browning.  (See CONTAINER TEST below.)  Metal or use in microwave cooking and browning.  (See CONTAINER TEST below.)  Most glass jars are not heat resistant. Do not use for cooking or eheating.  Most glass jars are not heat resistant one time.  Most glass jars are not heat resistant or netime.	Browning Dish		only. Check browning dish information for instructions and heating chart. Do not preheat for more than 6 minutes.
Labeled "Microwave Safe"   Unlabeled Dinnerware   Paperboard Dishes   Past Food Carton with Metal Handle   Frozen Dinner Tray Metal   Frozen Dinner Tray Microwave safe   Past Resistant Oven   Glass Jars   No   Metal can cause arcing and damage to your oven.  Heat Resistant Oven   Glassware & Ceramics   Metal Bakeware   No   Metal Twist-Ties   No   Metal Twist-Ties		No	
Disposable polyester Paperboard Dishes Fast Food Carton with Metal Handle No Metal handle may cause arcing.  Frozen Dinner Tray Metal Handle Frozen Dinner Tray Metal Prozen Dinner Tray Microwave safe Yes Heat only 1 tray in the oven at one time.  Glass Jars No Most glass jars are not heat resistant. Do not use for cooking or reheating.  Heat Resistant Oven Glassware & Ceramics No May cause arcing and damage to your oven.  Metal Bakeware No May cause arcing and browning.  Glass Jars No Most glass jars are not heat resistant. Do not use for cooking or reheating.  Metal Bakeware No May cause arcing which could cause a fire in the oven.  Metal Twist-Ties No May cause arcing which could cause a fire in the oven.  Follow manufacturers' directions. Close bag with the nylo tie provided, a strip cut from the end of the bag, or a piec of cotton string. Do not close with metal twist-tie. Make si 1/2-inch (1 cm) slits near the closure.  Paper Plates & Cups Yes Use to warm cooked foods, and to cook foods that requir short cooking times such as hot dogs.  Paper Towels & Napkins Yes Use to warm rolls and sandwiches, only if labeled safe for microwave use.  Recycled Paper Towels No Recycled paper products may contain impurities which m cause sparks.  Parchment Paper Yes Use as a cover to prevent spattering. Safe for use in microwave use.  Plastic: Yes, use caution Yes, owe microwave safe plastic containers are not suitable cooking foods with high fat or sugar content. The heat fro hot food may cause the plastic to warp.  Plastic, Melamine No This material absorbs microwave energy. Dishes get HO Plastic Foam Cups Yes, use caution use caution Security of the product of the pr	Labeled "Microwave Safe"		microwave heating. Some dinnerware may state on the back of the dish, "Oven-Microwave Safe".
Paper Diates Past Food Carton with Metal Handle No Metal Handle Prozen Dinner Tray Metal Handle Prozen Dinner Tray Metal Prozen Dinner Prozen Dinner Tray Metal Prozen Dinner Prozen Dinner Tray Metal Prozen Dinner Tray Prozen Dinner Pr			
Fast Food Carton with Metal Handle Frozen Dinner Tray Metal Frozen Dinner Tray Metal Frozen Dinner Tray Microwave safe Glass Jars No Heat Resistant Oven Glassware & Ceramics Metal Bakeware No Metal Twist-Ties No Metal Twist-Ties No Moven Cooking Bag Yes Paper Plates & Cups Paper Towels & Napkins Parchment Paper Recycled Paper Towels & Napkins Parchment Paper Plastic: Microwave Safe Cookware Plastic: Microwave Safe Cookware Plastic: Microwave Safe Cookware Plastic: Metal Metal Handle may cause arcing and damage to your oven. Metal or microwave cooking and browning. (See CONTAINER TEST below) Most glass jars are not heat resistant. Do not use for cooking or reheating. Most glass jars are not heat resistant. Do not use for cooking and browning. (See CONTAINER TEST below) Most glass jars are not heat resistant. Do not use for cooking and browning. (See CONTAINER TEST below) Most glass jars are not heat resistant. Do not use for cooking and browning. (See CONTAINER TEST below) Most glass jars are not heat resistant. Do not use for cooking and browning. (See CONTAINER TEST below) Most glass jars are not heat resistant. Do not use for cooking and browning. (See CONTAINER TEST below) Most glass jars are not heat resistant. Do not use for cooking and browning. (See CONTAINER TEST below) Most glass jars are not heat resistant. Do not use for cooking and browning. (See CONTAINER TEST below) Most glass jars are not heat resistant. Do not use for cooking and browning. (See CONTAINER TEST below) Most glass jars are not heat resistant. Do not use for cooking in merowave ovens. Metal care not suitable of cotton string. Do not close with the nylo tie provided, a strip cut from the end of the bag, or a piec of cotton string. Do not close with metal twist-tie. Make si 'Jz-inch (1 cm') silts near the closure.  Paper Plates & Cups  Paper Plates & Cups  No  Recycled paper products may contain impurities which metal twist-tie. Make si 'Jz-inch (1 cm') silts near the closure.  Use as a cover to prevent spattering. Safe for use in micr		Yes	
Metal Can cause arcing and damage to your oven.  Frozen Dinner Tray Microwave safe  Glass Jars  Reat Resistant Oven Glassware & Ceramics  Metal Bakeware  No May cause arcing and browning.  Metal Twist-Ties  No May cause arcing and damage to your oven.  Metal Bakeware  No Retal Twist-Ties  No May cause arcing and damage to your oven.  Metal Bakeware  No Retal Bakeware  No Retal Twist-Ties  No May cause arcing and damage to your oven.  Metal Resistant Oven Glassware & Ceramics  No Retal Bakeware  No Retal Bakeware  No Retal Twist-Ties  No May cause arcing and damage to your oven.  Metal Twist-Ties  No May cause cooking and browning.  (See CONTAINER TEST below)  No Read Bakeware  No Recycled Pauge r in the oven.  Follow manufacturers' directions. Close bag with the nylo to provided, a strip cut from the end of the bag, or a piec of cotton string. Do not close with metal twist-tie. Make si '/₂-inch (1 cm) slits near the closure.  Paper Plates & Cups  Paper Towels & Napkins  Recycled Paper Towels & Napkins  Parchment Paper  Yes  No Recycled paper products may contain impurities which may cause sparks.  Personant Paper  Yes  Use as a cover to prevent spattering. Safe for use in microwave, microwave/convection and conventional over should be labeled, "Suitable for Microwave Heating," Chemanufacturers' directions for recommended uses.  Some microwave safe plastic containers are not suitable cooking foods with high fat or sugar content. The heat fro hot food may cause the plastic to warp.  Plastic Foam Cups  Plastic Foam Cups  Yes, use caution  Plastic Wrap  Yes, use caution  Yes, use caution  Yes, use caution  This material absorbs microwave energy. Dishes get HOT will melt if foods reach a high temperature. Use rowave Heating". Check package directions.  Use only for short term reheating and to bring food to a loserying temperature only.  Use to cover food during cooking to retain moisture and prevent spattering. Should be labeled "Suitable for Microwave Heating". Check package directions.  Use only for short term reh	Fast Food Carton	No	, ,
Microwave safe ' Yes Heat only 1 tray in the oven at one time.  Most glass jars are not heat resistant. Do not use for cooking or reheating.  Heat Resistant Oven Glassware & Ceramics Metal Bakeware No More microwave cooking and browning.  Metal Twist-Ties No May cause arcing and damage to your oven.  Metal Twist-Ties No May cause arcing which could cause a fire in the oven.  Follow manufacturers' directions. Close bag with the nylo tie provided, a strip cut from the end of the bag, or a piec of cotton string. Do not close with metal twist-tie. Make si '1/2-inch (1 cm) slits near the closure.  Paper Plates & Cups Yes Use to warm cooked foods, and to cook foods that require short cooking times such as hot dogs.  Recycled Paper Towels No Recycled paper products may contain impurities which means the cause sparks.  Recycled Paper Towels No Recycled paper products may contain impurities which means the cause sparks.  Parchment Paper Yes Use as a cover to prevent spattering. Safe for use in microwave. microwave/convection and conventional over should be labeled, "Suitable for Microwave Heating." Chemanufacturers' directions for recommended uses.  Some microwave safe plastic containers are not suitable cooking foods with high fat or sugar content. The heat fro hot food may cause the plastic to warp.  Plastic Foam Cups Yes, use caution Yes, use caution Yes, use cave to prevent spattering. Should be labeled "Suitable for Microwave energy. Dishes get HO' to reheat foods to a low serving temperature only.  Use to cover food during cooking to retain moisture and prevent spattering. Should be labeled "Suitable for Microwave Heating". Check package directions.  Yes, use caution Yes, use caut	Metal	No	Metal can cause arcing and damage to your oven.
Heat Resistant Oven Glassware & Ceramics  Metal Bakeware  No Metal Twist-Ties  No May cause arcing and damage to your oven. Follow manufacturers' directions. Close bag with the nylo tie provided, a strip cut from the end of the bag, or a piec of cotton string. Do not close with metal twist-tie. Make si ½-inch (1 cm) slits near the closure.  Paper Plates & Cups  Paper Towels & Napkins  Parchment Paper  Plastic: Microwave Safe Cookware  Plastic, Melamine  Plastic, Melamine  Plastic Wrap  Straw, Wicker, Wood  Thermometers-  No May cause arcing and damage to your oven. No May cause arcing which could cause a fire in the oven. Follow manufacturers' directions. Close bag with the nylo tie provided, a strip cut from the end of the bag, or a piec of cotton string. Do not close with metal twist-tie. Make si ½-inch (1 cm) slits near the closure. Use to warm cooked foods, and to cook foods that require short cooking times such as hot dogs.  Ves Use to warm rolls and sandwiches, only if labeled safe for microwave use.  Recycled paper products may contain impurities which metal sandwiches, only if labeled safe for microwave use.  Recycled paper products may contain impurities which metal sandwiches, only if labeled safe for use in microwave, microwave/convection and conventional over sandward sandwiches, only if labeled safe for use in microwave, microwave/convection and conventional over sandward		Yes	
See CONTAINER TEST below		No	cooking or reheating.
Metal Twist-Ties  No May cause arcing and damage to your oven.  May cause arcing which could cause a fire in the oven.  Follow manufacturers' directions. Close bag with the nylo 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 si ½-inch (1 cm) slits near the closure.  Paper Plates & Cups  Paper Towels & Napkins  Paper Towels & Napkins  Recycled Paper Towels & Napkins  Parchment Paper  Plastic:  Microwave Safe  Cookware  Plastic:  Microwave Safe  Cookware  Plastic:  Microwave Safe  Cookware  Plastic Foam Cups  Plastic Foam Cups  Plastic Foam Cups  No  Cause arcing and damage to your oven.  May cause arcing which could cause a fire in the oven.  Follow manufacturers' directions. Close bag with the nylo 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 si ½-inch (1 cm) slits near the closure.  Use to warm colked foods, and to cook foods that require short cooking times such as hot dogs.  Use to warm rolls and sandwiches, only if labeled safe for microwave use.  Recycled Paper Towels  Recycled Paper products may contain impurities which metals as a cover to prevent spattering. Safe for use in microwave, microwave/convection and conventional over Should be labeled, "Suitable for Microwave Heating." Che manufacturers' directions for recommended uses.  Some microwave safe plastic containers are not suitable cooking foods with high fat or sugar content. The heat fro hot food may cause the plastic to warp.  Plastic Foam Cups  Yes, use caution  Yes, use caution  Yes, use caution in priving temperature only.  Use to voer food during cooking to retain moisture and prevent spattering. Should be labeled "Suitable for Microwave Heating". Check package directions.  Use only for short term reheating and to bring food to a los serving temperature. Wood may dry out & split or crack when used.  Use only microwave safe meat and candy thermometers.	Glassware & Ceramics	Yes	(See CONTAINER TEST below)
Oven Cooking Bag  Yes  Follow manufacturers' directions. Close bag with the nylo tie provided, a strip cut from the end of the bag, or a piec of cotton string. Do not close with metal twist-tie. Make si 1/2-inch (1 cm) slits near the closure.  Use to warm cooked foods, and to cook foods that require short cooking times such as hot dogs.  Paper Towels & Napkins  Recycled Paper Towels & Napkins  Parchment Paper  Plastic:  Microwave Safe  Cookware  Plastic:  Microwave Safe  Cookware  Plastic, Melamine  Plastic, Melamine  Plastic Foam Cups  Plastic Wrap  Plastic Wrap  Straw, Wicker, Wood  Thermometers-  Follow manufacturers' directions. Close bag with the nylotie provided, a strip cut from the end of the bag, or a piec of cotton string. Do not close with metal twist-tie. Make si 1/2-inch (1 cm) slits near the closure.  Ves  Use to warm cooked foods, and to cook foods that require short cooking times such as hot dogs.  Use to warm rolls and sandwiches, only if labeled safe for microwave use.  Recycled paper products may contain impurities which metal twist-tie. Make si 1/2-inch (1 cm) slits near the closure.  Use as a cover to prevent spattering. Safe for use in microwave, microwave/convection and conventional over Should be labeled, "Suitable for Microwave Heating." Che manufacturers' directions for recommended uses.  Some microwave safe plastic containers are not suitable cooking foods with high fat or sugar content. The heat from the food may cause the plastic to warp.  Plastic Foam Cups  Use to cover food during cooking to retain moisture and prevent spattering. Should be labeled "Suitable for Microwave Heating". Check package directions.  Use only for short term reheating and to bring food to a lose serving temperature. Wood may dry out & split or crack when used.  Use only microwave safe meat and candy thermometers.			cause arcing and damage to your oven.
tie provided, a strip cut from the end of the bag, or a piec of cotton string. Do not close with metal twist-tie. Make si ½-inch (1 cm) slits near the closure.  Paper Plates & Cups  Paper Towels & Napkins  Paper Towels & Napkins  Recycled Paper Towels & No  Recycled Paper Towels & No  Parchment Paper  Plastic:  Microwave Safe  Cookware  Plastic, Melamine  Plastic Foam Cups  Plastic Foam Cups  Plastic Wrap  Straw, Wicker, Wood  Thermometers-  Tes tite provided, a strip cut from the end of the bag, or a piec of cotton string. Do not close with metal twist-tie. Make si ½-½-inch (1 cm) slits near the closure.  Use to warm cooked foods, and to cook foods that requing short cooking times such as hot dogs.  Use to warm rolls and sandwiches, only if labeled safe for microwave use.  Recycled paper products may contain impurities which metal twist-tie. Make si ½-½-inch (1 cm) slits near the closure.  Use as a cover to prevent spattering. Safe for use in microwave, microwave/convection and conventional over should be labeled, "Suitable for Microwave Heating." Che heat fro hot food may cause the plastic containers are not suitable cooking foods with high fat or sugar content. The heat fro hot food may cause the plastic to warp.  Plastic foam will melt if foods reach a high temperature. Use to cover food during cooking to retain moisture and prevent spattering. Should be labeled "Suitable for Microwave Heating". Check package directions.  Use only for short term reheating and to bring food to a loser of the plant of the page.  Use only microwave safe meat and candy thermometers.	Metal Twist-Ties	No	
Paper Plates & Cups Paper Towels & Napkins Paper Towels & Napkins Recycled Paper Towels & Napkins Parchment Paper Plastic: Microwave Safe Cookware Plastic, Melamine Plastic Foam Cups Plastic Foam Cups Plastic Wrap Plastic Wrap Straw, Wicker, Wood Thermometers-  Yes Should be labeled, "Suitable for Microwave Heating." Che Microwave tage plastic containers and to bring food to a low serving temperature. Wood may dry out & split or crack when used.  Should be labeled, "Suitable for Microwave Heating." Che manufacturers' directions for recommended uses. Some microwave safe plastic containers are not suitable cooking foods with high fat or sugar content. The heat fro hot food may cause the plastic to warp.  Plastic Foam Cups Plastic foam will melt if foods reach a high temperature. Use only for short term reheating and to bring food to a low serving temperature and prevent spattering. Should be labeled "Suitable for Microwave Heating". Check package directions.  Use only for short term reheating and to bring food to a low serving temperature. Wood may dry out & split or crack when used.  Use only microwave safe meat and candy thermometers.	Oven Cooking Bag	Yes	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 ½-inch (1 cm) slits near the closure.
Recycled Paper Towels & Napkins  Recycled Paper Towels & Napkins  Parchment Paper  Plastic:     Microwave Safe     Cookware  Plastic, Melamine  Plastic Foam Cups  Plastic Wrap  Straw, Wicker, Wood  Recycled paper products may contain impurities which macause sparks.  Recycled paper products may contain impurities which macause sparks.  Recycled paper products may contain impurities which macause sparks.  Recycled paper products may contain impurities which macause sparks.  Sequence Straw, Wicker, Wood  Microwave Safe on Should be labeled, "Suitable for Microwave Heating." Che macrowave safe plastic containers are not suitable cooking foods with high fat or sugar content. The heat from hot food may cause the plastic to warp.  Plastic Foam Cups  Yes, use caution  Use to cover food during cooking to retain moisture and prevent spattering. Should be labeled "Suitable for Microwave Heating". Check package directions.  Use only for short term reheating and to bring food to a losserving temperature. Wood may dry out & split or crack when used.  Thermometers-  Ves  Microwave use.  Recycled paper products may contain impurities which macause sparks.  Use as a cover to prevent spattering. Safe for use in microwave Heating." Check package directions.  Use only for short term reheating and to bring food to a losserving temperature. Wood may dry out & split or crack when used.	Paper Plates & Cups	Yes	short cooking times such as hot dogs.
& Napkins Parchment Paper  Yes Use as a cover to prevent spattering. Safe for use in microwave, microwave/convection and conventional over Microwave Safe Ocokware  Plastic: Microwave Safe Cookware  Yes, Use caution  Yes, Use as a cover to prevent spattering. Safe for use in microwave, microwave/convection and conventional over Safe Ocokware  Yes, Use caution  No Institute of Microwave Heating. Che manufacturers' directions for recommended uses.  Some microwave safe plastic containers are not suitable cooking foods with high fat or sugar content. The heat fro hot food may cause the plastic to warp.  Plastic, Melamine  No This material absorbs microwave energy. Dishes get HOT plastic foam will melt if foods reach a high temperature. Use to cover food during cooking to retain moisture and prevent spattering. Should be labeled "Suitable for Microwave Heating". Check package directions.  Yes, Use only for short term reheating and to bring food to a loserving temperature. Wood may dry out & split or crack when used.  Thermometers-  Ves  Use only microwave safe meat and candy thermometers.	<u> </u>	Yes	microwave use.
Plastic: Microwave Safe Cookware  Plastic, Melamine Plastic Foam Cups Plastic Wrap  Plastic Wrap  Straw, Wicker, Wood  Plastic, Wood  Straw, Wicker, Wood  Plastic:  Microwave Safe Yes, use caution  Yes, use cau	, ,	No	
Microwave Safe Cookware  Yes, use caution  Plastic, Melamine Plastic Foam Cups  Plastic Wrap  Plastic Wrap  Straw, Wicker, Wood  Thermometers-  Yes, use caution  No This material absorbs microwave energy. Dishes get HOT to reheat foods to a low serving temperature only.  Yes, use caution  Use only for short term reheating and to bring food to a lot serving temperature. Wood may dry out & split or crack when used.  Use only microwave safe plastic containers are not suitable for hot food may cause the plastic to warp.  The manufacturers' directions for recommended uses.  Some microwave safe plastic containers are not suitable for beat or sugar content. The heat fro hot food may cause the plastic to warp.  Plastic foam will melt if foods reach a high temperature. Use to reheat foods to a low serving temperature only.  Use to cover food during cooking to retain moisture and prevent spattering. Should be labeled "Suitable for Microwave Heating". Check package directions.  Use only for short term reheating and to bring food to a low serving temperature. Wood may dry out & split or crack when used.	Parchment Paper	Yes	microwave, microwave/convection and conventional ovens.
Plastic Foam Cups  Yes, use caution  Plastic Wrap  Yes  Straw, Wicker, Wood  Yes, use caution  Yes  Yes  Use to cover food during cooking to retain moisture and prevent spattering. Should be labeled "Suitable for Microwave Heating". Check package directions.  Use only for short term reheating and to bring food to a losserving temperature. Wood may dry out & split or crack when used.  Thermometers-  Yes  Use only microwave safe meat and candy thermometers.	Microwave Safe		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
Plastic Foam Cups  use caution  Ves  Ves  Straw, Wicker, Wood  Thermometers-  Use caution  use caution  to reheat foods to a low serving temperature only.  Use to cover food during cooking to retain moisture and prevent spattering. Should be labeled "Suitable for Microwave Heating". Check package directions.  Use only for short term reheating and to bring food to a log serving temperature. Wood may dry out & split or crack when used.  Use only microwave safe meat and candy thermometers.	Plastic, Melamine		This material absorbs microwave energy. Dishes get HOT!
Plastic Wrap  Yes  prevent spattering. Should be labeled "Suitable for Microwave Heating". Check package directions.  Use only for short term reheating and to bring food to a lose serving temperature. Wood may dry out & split or crack when used.  Thermometers-  Yes  Use only microwave safe meat and candy thermometers.	Plastic Foam Cups		Plastic foam will melt if foods reach a high temperature. Use to reheat foods to a low serving temperature only.
Straw, Wicker, Wood Straw, William Straw, Will	Plastic Wrap	Yes	prevent spattering. Should be labeled "Suitable for Microwave Heating". Check package directions.
			serving temperature. Wood may dry out & split or crack when used.
Microwave safe	Microwave safe	Yes	Use only microwave safe meat and candy thermometers.
Conventional No and get hot.	Conventional		
Wax paper Yes Use as a cover to prevent spattering and to retain moistu	Wax paper	Yes	Use as a cover to prevent spattering and to retain moisture.

CONTAINER TEST

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

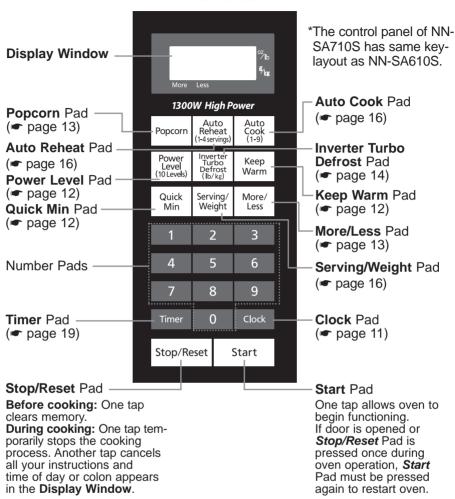
## **Oven Components Diagram**



- (a) External Air Vent
- **(b)** Internal Air Vent
- © Door Safety Lock System
- **d** Exhaust Air Vent
- (e) Control Panel
- (f) Identification Plate
- **9** Glass Tray
- (h) Roller Ring

- (i) Heat/Vapor Barrier Film (do not remove)
- (j) Menu Label
- **®** Warning Label
- Waveguide Cover (do not remove)
   Door Release Button
- n Power Supply Cord
- O Power Supply Plug





#### Beep Sound:

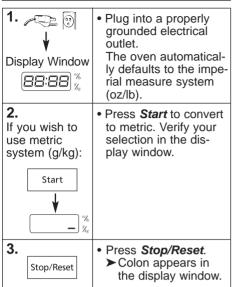
When a pad is pressed correctly, a beep will be heard.

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 an operation is set and start pad is not pressed, after 6 minutes, the oven will automatically cancel the operation. The display will revert back to clock or colon mode.

## Starting to Use Your Oven!





## Setting the Clock

Example: To set 11:25 a.m. or p.m.		
1. Clock	• Press Clock once. ➤ Colon flashes.	
2. 1 1 2 5	Enter time of day using the number pads.     Time appears in the display window; colon continues flashing.	
3. Clock	Press Clock.     Colon stops flashing; time of day is entered.	

#### NOTES:

- 1. To reset the clock, repeat step 1-3.
- The clock will retain the time of day as long as the oven is plugged in and electricity is supplied.
- 3. Clock is a 12 hour display.
- 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:	Press Start 3 times.     "Child" appears in the display window.     ▶"Child" continues to be displayed until Child Lock is cancelled. Keypads may be pressed but the microwave will not start.
To Cancel:  Stop/Reset	Press Stop/Reset 3 times.     The display will return to colon or time of day when Child Lock has been cancelled.

#### NOTF:

You can set Child Lock feature when the display shows a colon or time of day.



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

Power Level (10 Levels)  Press 5 times	Press Power Level until the desired power level appears in the display window.
<b>2.</b> 1 3 0	Set Cooking Time using number pads.
3.	Press Start.  Cooking will start. The time in the display window will count down.

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

#### NOTES:

- For more than one stage cooking, repeat steps 1 and 2 for each stage of cooking before pressing *Start* Pad. The maximum number of stages for cooking is 3. When operating, two beeps will sound between each stage. Five beeps will sound at the end of the entire sequence.
- 2. When selecting P10 (HIGH) power for the first stage, you may begin at step 2.
- When selecting P10 (HIGH) power, the maximum programmable time is 30 minutes. For other power levels, the maximum time is 99 minutes and 99 seconds.
- For reheating, use P10 (HIGH) for liquids, P7 (MED-HIGH) for most foods and P6 (MEDIUM) for dense foods.
- 5. For defrosting, use P3 (MED-LOW).

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



### **Quick Min Feature**

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

#### To Set Cooking Time:

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

#### NOTES:

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



## **Keep Warm Feature**

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

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

1. Keep Warm	• Press <b>Keep Warm</b> .
<b>2.</b> 0 to 9	Set warming time, up to 30 minutes.
3.	Press Start.  Keep Warm will start. The time in the display window will count down.

#### NOTE:

**Keep Warm** can be programmed as the final stage after cook time/s have been manually entered. It cannot be used in combination with sensor or auto features.



## **Popcorn Feature**

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

Example: 10 po	p 3.3 02. 01 popcor11
1. Popcorn	Press Popcorn until the desired size appears in the display window.
Press once	Press Weight once 3.5 oz. (99 g) twice 3.0 oz. (85 g) 3 times 1.75 oz. (50 g)
2. More/ Less Optional	• (see More/Less Feature.)
3.	Press Start.  After several seconds, cooking time appears in the display window and begins to count down.

#### **NOTES ON POPCORN FEATURE:**

- 1. Pop one bag at a time.
- 2. Place bag in oven according to manufacturers' directions.
- Start with popcorn at room temperature.
- 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 times may vary slightly. This does not affect the popcorn results.



### More/Less Feature

#### For Popcorn:

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

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

Press More/Less pad before pressing Start.

#### For Auto Reheat/Cook:

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

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

Press More/Less pad before pressing Start.



## **Inverter Turbo Defrost Feature**

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

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

Place food on microwave safe dish

Inverter Turbo Defrost (lb/kg)	Press Inverter Turbo Defrost.
1 5	Enter weight of the food using the number pads.
3.	Press Start.     Defrosting will start.     The time will count down. Larger weight foods will cause a signal midway through defrosting. If 2 beeps sound, turn over, rearrange foods or shield with aluminum foil.

#### Conversion Chart:

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

Ounces	Hundredths	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 6 lbs. (3 kg).



## Pefrosting Tips & Techniques

#### **Preparation For Freezing:**

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

#### To Defrost:

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

#### After Defrosting:

- 1. Large items may be icy in the center. Defrosting will complete during STANDING TIME.
- 2. Let stand, covered, following stand time directions on page 15.
- 3. Rinse foods indicated in the chart.
- 4. Items which have been layered should be rinsed separately or have a longer stand time.



## Defrosting Tips & Techniques (continued)

	DEFROST		AFTER DEFF	ROSTING
FOOD	TIME at P3 mins (per lb)	DURING DEFROSTING	Stand Time	Rinse
Fish and Seafood [up to 3 lbs. (1.4 kg)] Crabmeat	6	Break apart/Rearrange		
Fish Steaks	4 to 6	Turn over	5 min.	YES
Fish Fillets	4 to 6	Turn over/Rearrange/Shield ends		
Sea Scallops	4 to 6	Break apart/Remove defrosted pieces		
Whole fish	4 to 6	Turn over		
Meat Ground Meat	4 to 5	Turn over/Remove defrosted portion/Shield edges	10 min.	
Roasts [2 <sup>1</sup> / <sub>2</sub> -4 lbs. (1.1-1.8 kg)]	4 to 8	Turn over/Shield ends and defrosted surface	30 min. in refrig.	
Chops/Steak	6 to 8	Turn over/Rearrange/Shield ends and defrosted surface		
Ribs/T-bone	6 to 8	Turn over/Rearrange/Shield ends and defrosted surface	5 min.	NO
Stew Meat	4 to 8	Break apart/Rearrange/ Remove defrosted pieces	o min.	NO
Liver (thinly sliced)	4 to 6	Drain liquid/Turn over/ Separate pieces		
Bacon (sliced)	4	Turn over		
Poultry Chicken, Whole [up to 3 lbs. (1.4 kg)]	4 to 6	Turn over/Shield	20 min. in refrig.	
Cutlets	4 to 6	Break apart/Turn over/ Remove defrosted Pieces	5 min.	YES
Pieces	4 to 6	Break apart/Turn over/Shield	10 min	ILS
Cornish Hens	6 to 8	Turn over/Shield	10 min.	
Turkey Breast [5-6 lbs. (2.3-2.7 kg)]	6	Turn over/Shield	20 min. in refrig.	



## Auto Reheat Feature

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

#### Example: To reheat 2 servings of casserole

Auto Reheat (1-4 servings)  Press twice	Press Auto Reheat until the desired num- ber of servings appears in the display window.
2. More/ Less Optional	• (see More/Less Feature) (• page 13)
3. Start	Press Start. Cooking begins and the time will count down.

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

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

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



## Auto Cook Feature

These are tested and pre-timed (based on the power rating of this oven) for the quantity of food listed in the chart on page 17. Locale, power fluctuations and personal tastes are not taken into account. Should you prefer your food cooked differently, use power and time method shown on page 12.

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

1. Auto Cook (1-9) Press 4 times	Press until the desired number of category appears in the display window.
Serving/ Weight  Press twice	Press Serving/Weight until the desired serv- ing/weight appears in the display window.
3. More/Less Optional	• (see More/Less Feature) (• page 13)
4. Start	Press Start.     Cooking begins and the time will count down.



## **Auto Cook Chart**

Recipe	Serving/Weight	Hints
1.Oatmeal	0.5, 1 cup (40, 80 g)	Place inside a microwave safe serving bowl with no cover. Follow manufacturers' directions fo preparation.
2. Beverages	1, 2 cups (250, 500 ml)	This feature allows you to reheat 1 cup (250 ml) or 2 cups (500 ml) of room temperature beverages without setting power and time.  NOTE:  1. Use a microwave safe cup.  2. Heated liquids can erupt if not mixed with air.  Do not heat liquids in your microwave oven without stirring before and halfway through heating.  3. Care must be exercised not to overheat liquids when using the Beverage feature. It is programmed to give proper result when heating 1 cup (250 ml) or 2 cups (500 ml) of liquid, starting from room temperature. Overheating will cause an increased risk of scalding, or water eruption. Refer to page 2, item 18.
3. Bacon (sliced)	4, 6, 10, 14 slices (3.2 - 4, 4.8 - 5.8, 8.1 - 9.5, 11.6 - 13 oz.) (90 - 110, 135 - 165, 230 - 270, 330 - 370 g)	Place slices of bacon on top of paper-towel-lined microwave safe dish. Cover with paper towel. Time may vary by brand and weight. If bacon is not cooked to your liking, continue to heat by manually adding more time.
4. Frozen Entrées	8, 10, 20, 32 oz. (225, 300, 600, 900 g)	Follow manufacturers' directions for preparation. After 2 beeps, stir or rearrange. Be careful when removing the film cover after cooking. Remove facing away from you to avoid steam burns. If additional time is needed, continue to cook manually.
5. Frozen Pizza (single)	8 oz. (225 g)	Follow manufacturers' directions for preparation. Add more time of cooking if needed.



## **Auto Cook Chart**

(continued)

·	0	10.6
Recipe	Serving/Weight	Hints
6. Potatoes	1, 2, 3, 4 pieces (6 - 8 oz. each) (170 - 225 g)	Pierce each potato with a fork 6 times spacing around surface. Place potato or potatoes around the edge of paper-towel-lined glass tray (Turntable), at least 1 inch (2.5 cm) apart. Do not cover. For NN-SA610S: Turn over after 2 beeps. Let stand 5 minutes to complete cooking.
7. Fresh Vegetables	4, 8, 12, 16 oz. (110, 225, 340, 450 g)	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.
8. Frozen Vegetables	6, 10, 16 oz. (170, 300, 450 g)	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. (Not suitable for vegetables in butter or sauce.) After 2 beeps, stir or rearrange.
9. Hot Dog	1, 2, 3,4 pieces	Make 3 slits on each Hot Dog. Place Hot Dog on paper plate or microwave safe dish leaving space between each. Times may vary by size and manufacturer.



#### **Timer Feature**

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

#### To Use as a Kitchen Timer:

Example: To count down 5 minutes.		
1. Timer	• Press <b>Timer</b> .	
<b>2.</b> 5 0 0	Set desired amount of time using number pads. (up to 99 minutes and 99 seconds).	
3.	Press Start. Time will count down without oven operating.	

#### To Set Stand Time:

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

5 minutes.	
Power Level (10 Levels)  Press 5 times	Enter the desired     Power Level (see     page 12 for directions).
<b>2.</b> 3 0 0	<ul> <li>Set desired cooking time using number pads.</li> </ul>
3. Timer	• Press <b>Timer</b> .
<b>4.</b> 5 0 0	• Set desired amount of Stand Time using number pads. (up to 99 minutes and 99 seconds)
5.	<ul> <li>Press Start.</li> <li>Cooking will start.</li> <li>After cooking, stand time will count down without oven operating.</li> </ul>

#### CAUTION:

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

#### To Set Delay Start:

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

Timer	Press Timer.
<b>2.</b> 5 0 0	Enter desired amount of delay time using number pads. (up to 99 minutes and 99 seconds)
Press 5 times	Enter the desired     Power Level (see     page 12 for directions).
<b>4.</b> 3 0 0	Set desired cooking time using number pads.
5. Start	Press <i>Start</i> .     Delay time will count down. Then cooking will start.

#### NOTE:

- When each stage finishes, a two-beep signal sounds. At the end of the program, the oven will beep five times.
- 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 any automatic Function. This is to prevent the starting temperature of food from rising before defrosting or cooking begins. A change in starting temperature could cause inaccurate results.



## **Microwave Shortcuts**

FOOD	POWER	TIME (in mins.)	DIRECTIONS	
To separate refrigerated <b>Bacon</b> , 1 pound (450 g)	P10 (HIGH)	30 sec.	Remove wrapper and place in microwave safe dish. After heating, use a plastic spatula to separate slices.	
To soften <b>Brown Sugar</b> 1 cup (250 ml)	P10 (HIGH)	20 - 30 sec.	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, <sup>1</sup> / <sub>4</sub> pound (110 g)	P3 (MED-LOW)	1	Remove wrapper and place butter in a microwave safe dish.	
To melt refrigerated <b>Butter</b> , 1 stick, <sup>1</sup> / <sub>4</sub> pound (110 g)	P6 (MEDIUM)	11/2 - 2	Remove wrapper and place butter in a microwave safe dish covered with lid or vented plastic wrap.	
To melt <b>Chocolate</b> , 1 square, 1 oz. (28 g) To melt <b>Chocolate</b> , 1/2 cup (125 ml) chips	P6 (MEDIUM) P6 (MEDIUM)	1 - 1 <sup>1</sup> / <sub>2</sub> 1 - 1 <sup>1</sup> / <sub>2</sub>	Remove wrapper and place chocolate in a microwave safe dish. After heating, stir until completely melted. NOTE: Chocolate holds its shape even when softened.	
To toast <b>Coconut</b> , 1/2 cup (125 ml)	P10 (HIGH)	1	Place in a microwave safe dish. Stir every 30 seconds.	
To soften <b>Cream Cheese</b> , 8 oz. (225 g)	P3 (MED-LOW)	1 - 2	Remove wrapper and place in a microwave safe bowl.	
To brown <b>Ground Beef</b> , 1 pound (450 g)	P10 (HIGH)	4 - 5	Crumble into a microwave safe colander set into another dish. Cover with plastic wrap. Stir twice. Drain grease.	
To cook <b>Vegetables</b> , Fresh (1/2 lb.) (225 g)	P8	31/2 - 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 vente plastic wrap. Do not salt/butter until after cooking.	
Frozen (10 oz.) (285 g)	P8	31/2 - 4	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. (Not suitable for vegetables in butter or sauce.)	
Canned (15 oz.) (430 g)	P8	31/2 - 4	Empty contents into microwave safe serving bowl. For NN-SA610S: Cover with lid or vented plastic wrap. For NN-SA710S: Do not cover.	



## Microwave Shortcuts

(continued)

FOOD	POWER	TIME (in mins.)	DIRECTIONS	
To cook baked <b>Potato</b> , (6 - 8 oz. each) (170 - 225 g)			Pierce each potato with a fork 6 times spacing around surface. Place potato or potatoes around the edge of paper-towellined glass tray (Turntable), at least 1 inch (2.5 cm) apart. Do not cover. Let stand 5 minutes to complete cooking.	
2	P8 P8	3 <sup>1</sup> / <sub>2</sub> - 4 6 - 7		
To steam <b>Hand Towels</b> - 4	P10 (HIGH)	20 - 30 sec.		
To soften <b>Ice Cream</b> , 1/2 gallon (2 L)	P3 (MED-LOW)	1 - 11/2	Check often to prevent melting.	
Cup of liquid  To boil water, broth, etc. 1 cup, 8 oz. (250 ml) 2 cups, 16 oz. (500 ml)	P10 (HIGH)	1½ - 2 2½ - 3	Heated liquids can erupt if not stirred. Do not heat liquids in microwave oven without stirring before heating.	
Cup of liquid To warm Beverage, 1 cup, 8 oz. (250 ml) 2 cups, 16 oz. (500 ml)	P7 (MED-HIGH)	1½ - 2 2½ - 3		
To roast <b>Nuts</b> , 1½ cups (375 ml)	P10 (HIGH)	3 - 4	Spread nuts into a 9-inch (23 cm) microwave safe pie plate. Stir occasionally.	
To toast <b>Sesame Seeds</b> , <sup>1</sup> / <sub>4</sub> cup (60 ml)	P10 (HIGH)	2 - 21/2	Place in a small microwave safe bowl. Stir twice.	
To skin <b>Tomatoes</b> , (one at a time)	P10 (HIGH)	30 sec.	Place tomato into a microwave safe bowl containing boiling water. Rinse and peel. Repeat for each tomato.	
To remove <b>Cooking Odors</b> ,	P10 (HIGH)	5	Combine 1 to 11/2 cups (250 - 375 ml) water with the juice and peel of one lemon in a 2 quart microwave safe bowl.  After water finishes boiling, wipe interior of oven with a cloth. You can also use a combination of several whole cloves and 1/4 cup of vinegar with 1 cup of water.	

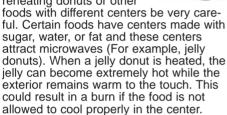
## **Food Characteristics**

#### 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



Quantity

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

**Shape** 

Uniform sizes heat more evenly. The thin end of a drumstick will cook more quickly than the meaty



end. To compensate for irregular shapes, place thin parts toward the center of the dish and thick pieces toward the edge.

#### **Size**

Thin pieces cook more quickly than thick pieces.



**Starting Temperature** 

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



## **Cooking Techniques**

Piercing

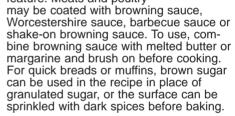
Foods with skins or membranes must be pierced scored or have a strip of skin peeled before cooking to allow steam to escape. Pierce clams,



oysters, chicken livers, whole potatoes and whole vegetables. Whole apples or new potatoes should have a 1-inch strip of skin peeled before cooking. Score sausages and frankfurters. Do not Cook/Reheat whole eggs with or without the shell. Steam build up in whole eggs may cause them to explode, and possibly damage the oven or cause injury. Reheating SLICED hard-boiled eggs and cooking SCRAMBLED eggs is safe.

**Browning** 

Foods will not have the same brown appearance as conventionally cooked foods or those foods which are cooked utilizing a browning feature. Meats and poultry



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.

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

#### **Cooking time**

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

#### Stirring

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

#### Rearranging

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

#### **Turning**

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

#### Stand Time

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

#### **Test for Doneness**

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

## ABOUT FOOD SAFETY AND COOKING TEMPERATURE

Check foods to see that they are cooked to the United States Department of Agriculture's recommended temperatures.

3	
TEMP	FOOD
160 °F	for fresh pork, ground meat, boneless white poultry, fish, seafood, egg dishes and frozen prepared food.
165 °F	for leftover, ready-to-reheat refrigerated, and deli and carryout "fresh" food.
170 °F	white meat of poultry.
180 °F	dark meat of poultry.

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



Label:

damp cloth.

Inside of the oven: Wipe with a damp cloth

gents or abrasives.

## Care and Cleaning of Your Microwave Oven

#### **BEFORE CLEANING:**

Do not remove, wipe with a

after using. Mild detergent

may be used if needed.

Do not use harsh deter-

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

1

#### Glass Tray:

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

#### 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.

#### 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.

Do not remove wave quide cover: It is important to keep cover clean in the same manner as the inside of the oven.

#### 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.

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.

#### PARTS DESCRIPTION PART NUMBER

Instructions / Operating Manual (this book) F00039R80AP

Glass Tray A06014T00AP A06014A00AP

Roller Ring Assembly F290D9330AP (NN-SA610S) (NN-SA710S)

#### Accessory Purchases (U.S.A and Puerto Rico)

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at: http://www.pstc.panasonic.com

or, send your request by E-mail to: npcparts@us.panasonic.com

You may also contact us directly at:

1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) (Monday-Friday 9 am to 8 pm, EST.)

Panasonic Service and Technology Company

20421 84th Avenue South,

Kent. WA 98032

(We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

For hearing or speech impaired TTY users, TTY: 1-866-605-1277



## **Before Requesting Service**

#### These things are normal:

The oven causes interference with my TV.

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

Steam accumulates on the oven door and warm air comes from the oven vents During cooking, steam and warm air are given off from the food. Most of the steam and warm air are removed from the oven by the air which circulates in the oven cavity. However, some steam will condense on cooler surfaces such as the oven door. This is normal. After use, the oven should be wiped dry (see page 24).

#### **PROBLEM**

#### **POSSIBLE CAUSE**

#### REMEDY

Oven will not turn on.

The oven is not plugged in Remove plug from outlet, wait securely. Remove plug from outlet, wait 10 seconds and re-insert.

Circuit breaker or fuse is tripped or blown.

Reset circuit breaker or replace fuse.

There is a problem with the outlet.

**Start** Pad was not pressed

Plug another appliance into the outlet to check if it is working.

Close the oven door securely.

The door is not closed completely.

Press **Start** Pad.

Oven will not start

after programming.

Another program is already entered into the oven.

Press **Stop/Reset** Pad to cancel 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.

cooking.

The Glass Tray is not positioned properly on the Roller Ring or there is food under the Roller Ring.

Take out Glass Tray and Roller Ring. Wipe with a damp cloth and reset Roller Ring and Glass Tray properly.

When the oven is operating, there is noise coming from the glass tray.

The Roller Ring and oven bottom are dirty.

Clean these parts according to Care and Cleaning of your Microwave Oven (see page 24).

The word "Child" appears in the **Display Window**.

The CHILD SAFETY LOCK was activated by pressing *Start* pad 3 times.

Deactivate CHILD SAFETY LOCK by pressing activated by pressing **Stop/Reset** pad 3 times.

The oven stops cooking by microwave and "H97" or "H98" appears in the display window.

This displaying indicates a problem with the microwave generation system.

Please contact an authorised Service Center (see page 26).

## Limited Warranty & Customer Services Directory (For U.S.A and Puerto Rico only)

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

#### Panasonic Microwave Oven Product Limited Warranty

#### Limited Warranty Coverage

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

ALL PARTS (EXCEPT MAGNETRON TUBE)
MAGNETRON TUBE

PARTS LABOR 1 (ONE) YEAR 1 (ONE) YEAR 5 (FIVE) YEAR 1 (ONE) YEAR

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

Carry-In or Mail-In Service

For Čarry-In or Mail-In Service in the United States U.S.A and Puerto Rico call 1-800-211-PANA(7262) or visit Panasonic Web Site: http://www.panasonic.com

**Limited Warranty Limits And Exclusions** 

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER glass, plastic parts, temperature probes(if included) and normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Service center or other Authorized Services or damage that is attributable to acts of God.

Factory Service center or other Authorized Servicer, or damage that is attributable to acts of God.

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

CHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

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

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

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

#### Customer Services Directory (U.S.A and Puerto Rico)

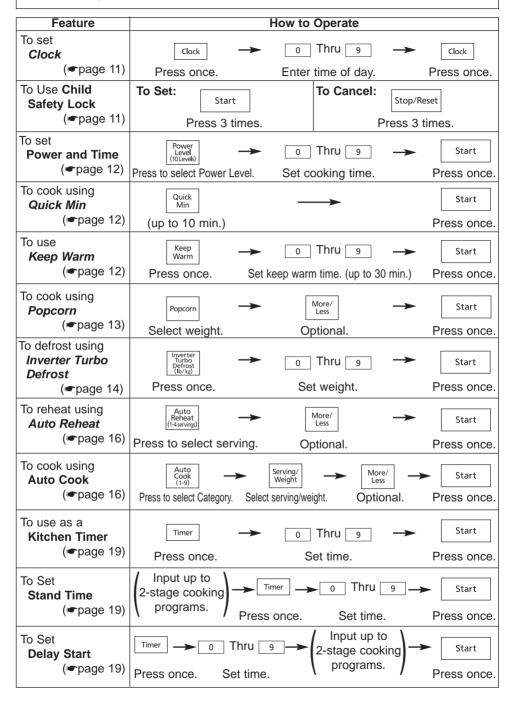
Obtain Product Information and Operating Assistance; locate your nearest Dealer or service center; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at: <a href="http://www.panasonic.com/help">http://www.panasonic.com/help</a>

or, contact us via the web at: http://www.panasonic.com/contactinfo

You may also contact us directly at: **1-800-211-PANA(7262)**, Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

For hearing or speech impaired TTY users, TTY: 1-877-833-8855

### QUICK GUIDE TO OPERATION





## **Specifications**

NN-SA610S		
120 V, 60 Hz		
12.7 Amps, 1,480 W		
1,300 W		
20³/ <sub>8</sub> " x 11 <sup>7</sup> / <sub>8</sub> " x 16"		
(518 mm x 301 mm x 406 mm)		
14 <sup>3</sup> / <sub>4</sub> " x 9 <sup>3</sup> / <sub>16</sub> " x 15 <sup>3</sup> / <sub>16</sub> "		
(375 mm x 233 mm x 386 mm)		
2,450 MHz		
Approx. 26 lbs. (11.7 kg)		
NN-TK529S		
(Stainless)		
27" x 16 <sup>1</sup> / <sub>2</sub> "		
(685 mm x 419 mm)		
22 <sup>11</sup> / <sub>16</sub> " x 15 <sup>5</sup> / <sub>16</sub> " x 21"		
(576 mm x 389 mm x 533.4 mm)		

Model Number:	NN-SA	710S	
Power Source:	120 V, 60 Hz		
Power Consumption:	12.7 Amps, 1,460 W		
Cooking Power:*	1,250 W		
Outside Dimensions	21 <sup>7</sup> / <sub>8</sub> " x 12" x 20"		
(W x H x D):	(555 mm x 304 mm x 508 mm)		
Overall Oven Cavity	16 <sup>7</sup> / <sub>16</sub> " x 9 <sup>1</sup> / <sub>8</sub> " x 18 <sup>1</sup> / <sub>2</sub> "		
Dimensions (W x H x D):	(418 mm x 231 mm x 470 mm)		
Operating Frequency:	2,450 MHz		
Net Weight:	Approx. 31 lbs. (13.9 kg)		
Trim Kit:	NN-TK729S (Stainless)	NN-TK739S (Stainless)	
Outside Dimensions:	27" x 16 1/2 "	30 " x 16 ½ "	
Outside Dimensions.	(685 mm x 419 mm)	(762 mm x 419 mm)	
Cabinet Opening:	24 <sup>7</sup> / <sub>8</sub> " x 15 <sup>5</sup> / <sub>16</sub> " x 21"		
Cabinet Opening.	(632 mm x 389 mm x 533.4 mm)		

<sup>\*</sup>IEC Test procedure Specifications subject to change without notice.

### **User's Record**

Panasonic Consumer Electronics Company, Division of Panasonic Corporation of North America One Panasonic Way Secaucus, New Jersey 07094

Panasonic Home Appliances Microwave Oven (Shanghai) Co., Ltd.