

# USE AND CARE GUIDE

THERMADOR PROFESSIONAL® PRO HARMONY®  
DUAL FUEL RANGES

**Models**  
PRD30  
PRD36  
PRD48

***Thermador***  <sup>TM</sup>  
REAL INNOVATIONS FOR REAL COOKS <sup>TM</sup>

Congratulations on your recent THERMADOR® purchase! Whether you are a dedicated chef or simply a connoisseur of the art of cooking, owning a THERMADOR kitchen is the ultimate expression of personal style, good taste and an appreciation for the complete culinary experience. Our award-winning products have been empowering culinary enthusiasts for more than eleven decades.

Before you begin using your new THERMADOR product, please take a moment to review the Use and Care Guide. You will find the answers to all of your questions as well as some very important safety information. Pay special attention to the **Important Safety Instructions** located at the beginning of the manual. Your THERMADOR product is ready and waiting to be used for your next gourmet creation!

Our products are handcrafted with the highest quality authentic materials to ensure years of reliable service. In the unlikely event that you have a service question, please have your model and serial numbers of your product available. You can find this information beneath the control panel area of the range.

We realize that you have made a considerable investment in your kitchen. Please feel free to share your THERMADOR® kitchen photos and remodeling stories with us. Follow us on Twitter or post your kitchen photos on Facebook. We would love to hear from you!

THERMADOR wishes you many years of creative cooking.

**Thermador** ™  
REAL INNOVATIONS FOR REAL COOKS™

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This THERMADOR® appliance is made by  
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Irvine, CA. 92614

## Questions?

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[www.thermador.com](http://www.thermador.com)

**We look forward to hearing from you!**

# Safety



## Important Safety Instructions

READ AND SAVE THESE INSTRUCTIONS

### PLEASE READ CAREFULLY



#### WARNING:

If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- WHAT TO DO IF YOU SMELL GAS
  - Do not try to light any appliance.
  - Do not touch any electrical switch.
  - Do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.



#### WARNING:



A child or adult can tip the range over and be killed. Verify that the anti-tip bracket is securely installed. Ensure the anti-tip bracket is engaged when the range is moved.

Do not operate the range without the anti-tip bracket in place. Failure to follow the instructions in this manual can result in death or serious burns to children and adults.

Check for proper installation and use of anti-tip bracket. Carefully tip range forward pulling from the back to ensure that the anti-tip bracket engages the range aluminum cast base and prevents tip-over. Range should not move more than 1" (2.5cm).

## Gas and Electrical Requirements and Grounding Instructions

### Gas Type Verification

Verify the type of gas supplied to the location. Ensure that the appliance is connected to the type of gas for which it is certified. All models are certified for use with natural gas. Field conversion of the appliance for use with propane gas supply will require a conversion kit (PALPKITHC). Make certain your range and gas type are the same. Refer to the product rating label which can be located as indicated on *page 38*.



#### CAUTION:

When connecting the unit to propane gas, make certain the propane gas tank is equipped with its own high-pressure regulator in addition to the pressure regulator supplied with the range. **The maximum gas pressure to this appliance must not exceed 14.0" water column (34.9 mb) from the propane gas tank to the pressure regulator.**

### IMPORTANT:

When installing against a combustible surface, a High Shelf or Low Back guard is required. A THERMADOR® High Shelf or Low Back guard must be purchased separately. Before using the range, insure that it is equipped with a proper back guard. Refer to the *Installation Manual* accompanying this appliance for more information.

When using the Flush Island Trim, THERMADOR recommends a minimum 12" (305 mm) rear clearance to a combustible surface. Clearances from non-combustible materials are not part of the ANSI Z21.1 scope and are not certified by CSA. Clearances of less than 12" (305 mm) must be approved by the local codes and/or by the local authority having jurisdiction.

Before using the range, ensure that it is equipped with a proper backguard. Refer to the *Installation Manual* accompanying this appliance for more information.



# Important Safety Instructions

## READ AND SAVE THESE INSTRUCTIONS



### WARNING:

To avoid possible burn or fire hazard, a back guard designed specifically for this range must be installed whenever the range is used.



### CAUTION:

The high shelf can get very hot! **DO NOT** place the following items on top of the high shelf:

- plastics or containers that can melt
- flammable items
- a total load over 30 lbs. (13.6 kg)



### WARNING:

**ALWAYS** DISCONNECT THE ELECTRICAL PLUG FROM THE WALL RECEPTACLE BEFORE SERVICING THIS UNIT.



### CAUTION:

FOR PERSONAL SAFETY, THIS APPLIANCE MUST BE CONNECTED TO A PROPERLY GROUNDED AND POLARIZED ELECTRICAL POWER SUPPLY.

## PLEASE READ CAREFULLY

### 30" Dual Fuel Models:

240/208 volts, 60 Hz., 35 Amp electrical circuit required for each line.

### 36" Dual Fuel Models:

240/208 volts, 60 Hz., 35 Amp electrical circuit required for each line.

### 48" Dual Fuel Models:

240/208 volts, 60 Hz., 50 Amp electrical circuit required for each line.

It is recommended that a dedicated circuit servicing this appliance be provided.

The use of gas cooking appliances results in the production of heat and moisture.

See the *Installation Manual* for electrical requirements and grounding instructions.

It is the personal responsibility and obligation of you, the user, to have this appliance connected to the electrical power supply by a qualified electrician, in accordance with the National Electrical Code and/or applicable local codes and ordinances.



### WARNING:

#### IN CASE OF AN ELECTRICAL FAILURE

If for any reason a gas control knob is turned ON and there is no electrical power to operate the electronic igniters on the range's cooktop STAR<sup>®</sup> burners, **turn OFF the gas control knob and wait 5 minutes** for the gas to dissipate before lighting the STAR burner manually.

To light the STAR burners manually, carefully hold a lighted match to the STAR burner ports and turn the gas control knob to HI. During a power failure, you can use the standard cooktop STAR burners, but each must be lit with a match.

**DO NOT** attempt to light the two left XLO<sup>®</sup> STAR burners and two right XLO STAR burners manually. These STAR burners are equipped with the ExtraLow<sup>®</sup> feature and cannot be lit manually.

#### TESTED IN ACCORDANCE WITH:

- ANSI Z21.1 for Household Gas Appliances
- UL 858 for Household Electric Ranges
- CAN/CSA-22.2 No. 61-M89 for Household Cooking Ranges
- CAN/CSA 1.1-M81 Domestic Gas Ranges

Check your local building codes for the proper method of installation. In the absence of local codes, this unit should be installed in accordance with the National Fuel Gas Code No. Z223.1 current issue and the National Electrical Code ANSI/NFPA No. 70 current issue or the Can - B149 Installation Codes for Gas Burning Appliances and C22.1 Canadian Electrical Code Part 1.



## Important Safety Instructions

### READ AND SAVE THESE INSTRUCTIONS

It is the responsibility of the owner and the installer to determine if additional requirements and/or standards apply to specific installations.

### Safety Practices to Avoid Personal Injury

When properly cared for, your new THERMADOR PROFESSIONAL® range has been designed to be a safe, reliable appliance. However, use extreme care when using this restaurant caliber range as this type of appliance provides intense heat. When using kitchen appliances, basic safety precautions must be followed, including the following:

Read this Use and Care Guide carefully before using your new range to reduce the risk of fire, electrical shock, or injury to persons.

Insure proper installation and servicing. Follow the *Installation Manual* provided with this product. Have the range installed and electrically grounded by a qualified technician.

Have the installer show you where the gas supply shut-off valve is located so that you know how and where to turn off the gas to the range.

Have the installer show you the location of the circuit breaker. Mark it for easy reference.

**DO NOT** repair or replace any part of the appliance unless specifically recommended in this manual. All other servicing should be referred to a qualified technician.

Children should not be left alone or unattended in an area where appliances are in use. They should never be allowed to sit or stand on any part of the appliance. If children are allowed to use the appliance, they must be closely supervised.



### WARNING:

**DO NOT** store items of interest to children above or at the back of the range. If children should climb onto the appliance to reach these items, they could be seriously injured.

When children become old enough to operate the appliance, it is the legal responsibility of the parents or legal guardians to ensure that they are instructed in safe practices by qualified persons.

Never use any part of the range or oven for storage. Flammable materials can catch fire and plastic items may melt or ignite.

**DO NOT** hang articles from any part of the appliance or place anything against the oven. Some fabrics are quite flammable and may catch on fire.

If the range is near a window, be certain the curtains **DO NOT** blow over or near the range burners; they could catch on fire.

Have an appropriate fire extinguisher available, nearby, highly visible and easily accessible near the appliance. **DO NOT USE WATER ON GREASE FIRES.**

Turn appliance off and smother fire with baking soda or use a dry chemical or foam-type extinguisher.



### WARNING:

#### TO REDUCE THE RISK OF A GREASE FIRE:

- Never leave surface units unattended at high settings. Boilovers cause smoking and greasy spillovers that may ignite. Heat oils slowly on low or medium settings.
- Always turn hood ON when cooking at high heat or when flambéing food (i.e. Crepes Suzette, Cherries Jubilee, Peppercorn Beef Flambé).
- Clean hood filters frequently. Grease should not be allowed to accumulate on fan or filter.
- Use proper pan size. Always use cookware appropriate for the size of the cooktop burner.

Never let clothing, potholders, or other flammable materials come in contact with or too close to any infrared burner, top burner or burner grate until it has cooled. Fabric may ignite and result in personal injury.

Use only dry potholders: moist or damp potholders on hot surfaces may cause burns from steam. **DO NOT** use a towel or other bulky cloth in place of potholders. **DO NOT** let potholders touch hot elements, hot burners, or burner grates.



## Important Safety Instructions

### READ AND SAVE THESE INSTRUCTIONS

For personal safety, wear proper apparel. Loose fitting garments or hanging sleeves should never be worn while using this appliance. Some synthetic fabrics are highly flammable and should not be worn while cooking.

**DO NOT** use aluminum foil to line any part of the oven or range. Use of a foil liner could result in a shock or fire hazard, or the obstruction of the flow of combustion and ventilation air. Foil is an excellent heat insulator and heat will be trapped beneath it. This will upset the cooking performance and can damage the finish of the oven or the range.



### WARNING:

#### **TO REDUCE THE RISK OF INJURY TO PERSONS, IN THE EVENT OF A RANGE TOP GREASE FIRE, OBSERVE THE FOLLOWING:**

- Smother flames with a close-fitting lid, cookie sheet, or other metal tray, then turn off the gas burner or the electric element. Be careful to prevent burns. If the flames do not go out immediately, Evacuate and call the fire department.
- Never pick up a flaming pan — You may be burned.
- **DO NOT USE WATER**, including wet dish cloths or towels — a violent steam explosion will result.
- Use an extinguisher only if:
  - You know you have a class ABC extinguisher and you already know how to operate it.
  - The fire is small and contained in the area where it started.
  - The fire department is being called.
- You can fight the fire with your back to an exit.



### WARNING:

The appliance is for cooking. Based on safety considerations, never use the oven or cooktop to warm or heat a room. Also, such use can damage the cooktop or oven parts.



### WARNING:

**NEVER** use this appliance as a space heater to heat or warm the room. Doing so may result in carbon monoxide poisoning and overheating of the oven.



### WARNING:

**NEVER** cover any slots, holes or passages in the oven bottom or cover an entire rack with materials such as aluminum foil. Doing so blocks air flow through the oven. Aluminum foil linings may also trap heat, causing a fire hazard.

When using the cooktop: **DO NOT TOUCH THE BURNER GRATES OR THE IMMEDIATE SURROUNDING AREA.** Areas adjacent to the burners may become hot enough to cause burns.

**Never leave the range unattended** when using high flame settings. Boil overs cause smoking and greasy spillovers that may ignite. More importantly, if the burner flames are smothered, unburned gas will escape into the room. See front of this manual, *page 1* regarding gas leaks.

**Only certain types of glass, heatproof glass-ceramic, ceramic, earthenware, or other glazed utensils are suitable for cooking on the range burners.** This type of utensil may break with sudden temperature changes. Use only on low or medium heat settings according to the utensil manufacturer's directions.

**DO NOT heat unopened food containers;** a buildup of pressure may cause the container to burst.

During cooking, set the burner control so that the flame heats only the bottom of the pan and does not extend beyond the bottom of the pan. Proper relationship of cookware to burner flame reduces safety risks.

Avoid using high flame setting with a pan larger than the grate or with one that spans more than one burner, such as a griddle, for prolonged periods of time. This can result in poor combustion that generates harmful by-products.

Use caution to insure that drafts like those from forced air vents or fans **DO NOT** blow flammable material toward the flames or push the flames so that they extend beyond the edges of the pot.

Always use utensils that have flat bottoms large enough to cover the burner. The use of undersized utensils could expose a portion of the flame and may result in ignition of clothing.



## Important Safety Instructions

### READ AND SAVE THESE INSTRUCTIONS

Bakeware, such as large casserole pans, cookie sheets, etc., should never be used on the cooktop.

**DO NOT** use flammable cleaners to clean the range.

To minimize the risk of burns, ignition of flammable materials and unintentional spillage, position handles of utensils inward so they do not extend over adjacent work areas, cooking areas, or the edge of the range's cooktop.

Hold the handle of the pan to prevent movement of the utensil when stirring or turning food.

**DO NOT** use pots or pans on the grill plate accessory.

**DO NOT** use the grill plate accessory for cooking excessively fatty meats or products which promote flare-ups.

The optional **cutting board accessory must be removed** before operating the griddle beneath it or burners adjacent to it.

**GREASE IS FLAMMABLE.** Let hot grease cool before attempting to handle it. Avoid letting grease deposits collect. Clean after each use.

For proper lighting and performance of the burners, keep the igniter ports clean. It is necessary to clean these when there is a boil over or when the burner does not light even though the electronic igniters activate. See "Cleaning Recommendations" on page 33.


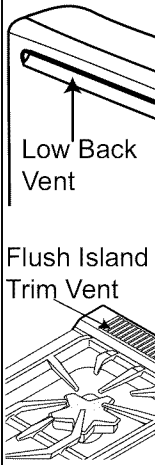


### WARNING:

After a spill or boil over, turn off the burner and using caution due to possible hot surfaces, clean around the burner and burner ports. After cleaning, check for proper operation.

**Clean the range with caution.** Avoid steam burns; **DO NOT** use a wet sponge or cloth to clean the range while it is hot. Some cleaners produce noxious fumes if applied to a hot surface. Follow directions provided by the cleaner manufacturer.

**DO NOT** obstruct the flow of combustion or ventilation air.

	 <b>WARNING:</b>
	<p><b>DO NOT block</b> or obstruct the flow of air through the ventilation openings. The oven vent is located at the back of the appliance. The vents need to be unobstructed and open to provide necessary airflow that is important for proper oven performance.</p> <p><b>DO NOT</b> touch oven vent area while the appliance is on and for several minutes after the appliance is off. Some parts of the vent and surrounding areas become hot enough to cause burns. Allow appliance sufficient time to cool before touching or cleaning vent areas.</p> <p><b>DO NOT</b> position plastic or other heat-sensitive items on or near the oven vent. These items could melt or ignite.</p>

Be sure all cooktop controls are turned off and the cooktop is cool before using any type of aerosol cleaner on or around the cooktop. The chemical that produces the spraying action could, in the presence of heat, ignite or cause metal parts to corrode.

When using the oven: **DO NOT TOUCH THE BROILER ELEMENT, THE INTERIOR SURFACES OF THE OVEN OR THE EXTERIOR AREA IMMEDIATELY SURROUNDING THE DOOR.** Interior oven surfaces become hot enough to cause burns. The heat deflector, which deflects heat away from the cooktop and the trim on the top and sides of the oven door, will also be hot when the oven is in use.

**Place oven racks in desired position while oven is cool.** If a rack must be moved while the oven is hot, **DO NOT** let the potholders contact the broiler element.

**Use care when opening the oven door;** let hot air or steam escape before removing or replacing foods.

**DO NOT clean, rub, damage, move or remove the door gasket.** It is essential for a good seal during baking. If the gasket becomes worn or excessively soiled with food particles, replace gasket to assure a tight seal.





## Important Safety Instructions

### READ AND SAVE THESE INSTRUCTIONS

**Protect the self-cleaning feature.** Clean only those parts indicated in this booklet. **DO NOT** use commercial oven cleaners or oven liner protective coatings of any kind in or around the self-cleaning oven.

For safety reasons and to avoid equipment damage, never sit, stand, or lean on the oven door.

Use CAUTION when opening the oven door during or immediately after operation. Stand to the side of the oven when opening an oven door to allow hot air or steam to escape. Keep face well away from the open door to avoid injury.

**Service should only be done by authorized technicians.** Technicians must disconnect the power supply before servicing this unit.

Listen to be sure the cooling blower runs whenever the oven controls are set in broil or bake modes. If the fan does not operate, **DO NOT** use the oven. Call an authorized service center for service.

To avoid a fire hazard, grease accumulation must be prevented by frequently cleaning the ventilation hood and filters.

In case of fire or when intentionally “flaming” liquor or other spirits on the range's cooktop, follow hood manufacturer's instructions.

Use caution when cooking foods with high alcohol content (e.g. rum, brandy, bourbon) in the oven. Alcohol evaporates at high temperatures. There is a risk of burning as the alcohol vapors may catch fire in the oven. Use only small quantities of alcohol in foods, and open the oven door carefully.



### WARNING:

Avoid using high flame setting with a pan larger than the grate or with one that spans more than one burner, such as a griddle, for prolonged periods of time. This can result in poor combustion that generates harmful by-products.

### Important Safety Notice:

The California Safe Drinking Water and Toxic Enforcement Act requires the Governor of California to publish a list of substances known to the state to cause cancer, birth defects or other reproductive harm, and requires businesses to warn customers of potential exposure to such substances.

The burning of gas cooking fuel and the elimination of soil during self-cleaning can generate some by-products which are on the list. To minimize exposure to these substances, always operate this unit according to the instructions contained in this booklet and provide good ventilation.

Exposure to these substances can be minimized by:

1. Providing good ventilation when cooking with gas.
2. Providing good ventilation during and immediately after self cleaning the oven.
3. Operating the unit according to the instructions in this manual.

**DO NOT** store or use corrosive chemicals, vapors, flammables or nonfood products in or near this appliance. It is specifically designed for use when heating or cooking food. The use of corrosive chemicals while heating or cleaning will damage the appliance and could result in injury.



### WARNING:

To avoid possible burn or fire hazard, a backguard designed specifically for this range must be installed whenever the range is used.

# Before You Begin

Before using your range for the first time, check that you have these items:

Table 1: Range Accessories and Parts

DESCRIPTION	30" 4 Burner	36" with Griddle	36" 6 Burner	48" with Griddle
Full Access® Oven Racks, Large Oven	3	3	3	3
Full Access Oven Racks, Secondary Oven	—	—	—	2
Two-Piece Broil Pan*	1	1	1	2
STAR® Burner Caps	4	4	6	6
Burner Grates	2	2	3	3
Center Grate	1	—	—	—
Control Knobs	5	6	7	9
Titanium Coated Aluminum Griddle	—	1	—	1
Handy Hints Guide	1	1	1	1
Product Registration Card	1	1	1	1
Low Back Backguard	1	—	—	—
Flush Island Trim**	—	1	1	1
Installation Manual	1	1	1	1
Use and Care Guide	1	1	1	1

\* All models have one porcelain two-piece broiler pan for the oven. The 48" models also have a small two-piece broiler pan for the Secondary Oven.

\*\* Models are supplied with a Flush Island Trim; however, see Warning concerning spacing behind the range when using the range with the Flush Island Trim.



Remove all packaging materials and temporary labels from oven and cooktop. Please, recycle the packaging material as all THERMADOR® packaging is recyclable.

1. Check that you have the items listed in Table 1.
2. **Record the Model and Serial number on page 38. See "Data Rating Plate."** These may be used for any future contacts with Customer Service. Enter this information on the Product Registration Card included with this product then mail it to the indicated address.

3. **Optional Accessories.** Grill Plate (PA12GRILHC), Black Knob Kit (KNOBBLKHC), Chopping Board (PC12CHPBLK), Griddle Cover (PA12CVRJ), Wok Support Ring (SWOKRINGF) and other accessories are available from your THERMADOR® Dealer.

4. **Position the racks correctly in the oven.** The correct rack position depends on the recipe and the cooking mode. **The rack positions are numbered from the bottom of the oven, like an elevator.** Rack position 3 is the most frequently used position. Place rack(s) in the proper position before turning on the oven.

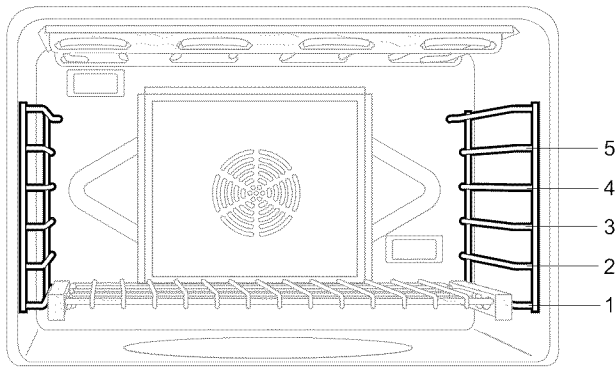


Figure 1: Main Oven Rack Positions

5. **THERMADOR® Full Access® oven racks are standard on all models.** Each gliding oven rack can be pulled out and pushed back into the oven with minimal effort — even while supporting a large turkey or roast.

Always remove  
before Self Clean

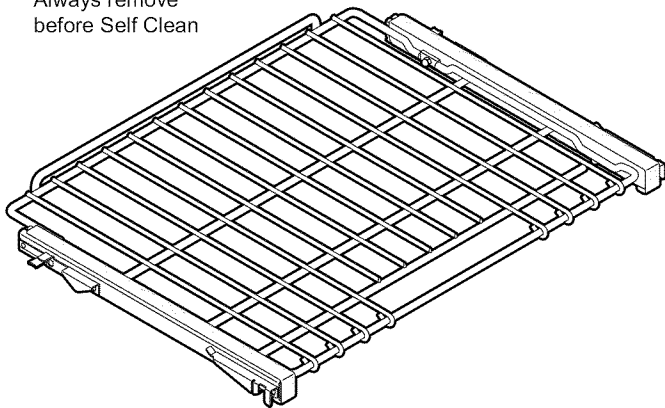


Figure 2: Full Access Oven Rack

6. **Ensure that the burner caps are correctly seated on the burner bases of the range's cooktop** (see *Figure 15* and *Figure 16* on *Page 14*). Turn on each burner to check for proper flame color. See “*Flame Description*” on *page 15* for details.

**IMPORTANT:**

Always remove the Full Access oven racks before self-cleaning the oven. If the gliding racks remain in the oven during Self-Clean, lubricants in the glide mechanisms of each rack will be lost and the finish will discolor.



**WARNING:**

To help prevent burns, **NEVER** remove or reposition the oven racks while the oven is ON or while the oven is cooling.

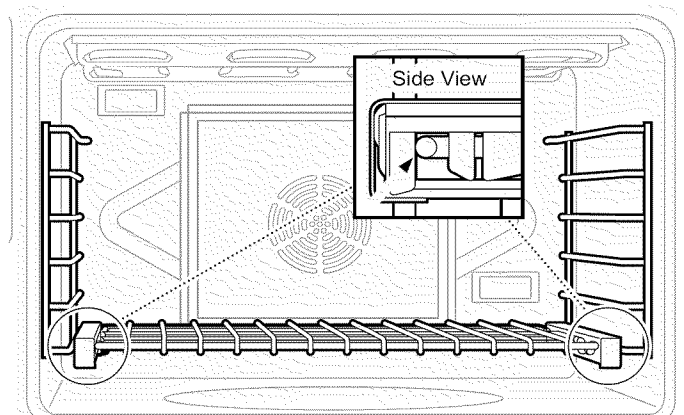
**Placing Rack In Oven:**

To insert a rack in the oven, hold the rack with the back rail up toward the back. Place the safety hooks under the front of the rail guides. Push the rack into the oven, lifting the rack stops over the front of the rail guides. Slide the rack into position.

When placing food on a rack, pull the rack out to the stop position. The racks are designed to lock and not tilt while in fully-extended position.

**Removing Rack from Oven:**

To remove or reposition a rack in the oven, pull the rack toward the front of the oven. Lift up the front of the rack over the safety stops and pull the rack from the oven.



**IMPORTANT:** When placing the gliding rack in the oven, make sure the front supports on the rack guides rest in the large slots at the front corners of the rack, as shown. This is necessary to keep the rack in the correct position while fully inserted into the oven.

Figure 3: Side View of Rack on the Rack Guide



## CAUTION:

Aluminum foil should never be used to cover the oven racks or to line the oven. **DO NOT** remove the broiler element in the electric oven.

### NOTE:

It is normal for the cooling process to push heated air out into the room when the oven is on.

The THERMADOR PROFESSIONAL® range occasionally has a smell or smoke when first used. These smells or smoke comes from the burning off of manufacturing residues and is typical of any new oven regardless of manufacturer.

**Before baking or broiling**, the oven and broiler should be turned on to burn off the manufacturing oils using one of the two following methods:

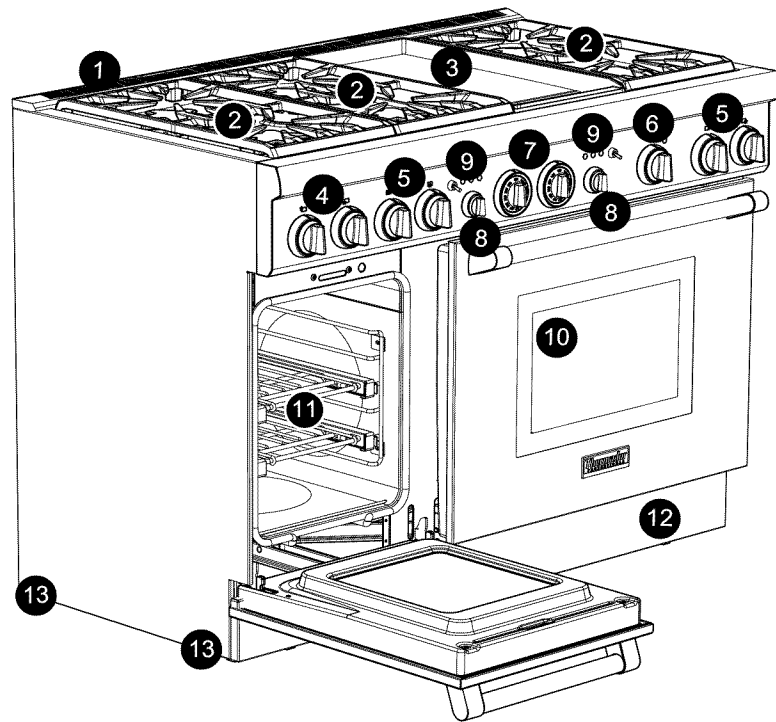
- Turn on kitchen ventilation (or if vent hood is a recirculation type open a window). Set oven at 500°F (260°C) and let the oven go through a 2 hour cycle at high heat then shut off the oven. Please read *“Care and Maintenance” on page 31* before cleaning the oven racks.
- Turn on kitchen ventilation (or if vent hood is a recirculation type open a window). Remove oven racks. Set oven into self clean cycle and let self clean run (see *“Self-Cleaning the Oven” on page 31*).

Please note that pet birds can be sensitive to the odors created during any high heat cooking whether it is a manufacturing residue burn off or food so it is recommended that birds be removed from the kitchen area.

**Please read *“Care and Maintenance” on page 31* before cleaning the oven racks.**

# Description

## Model and Parts Identification



### Key for 48" Models

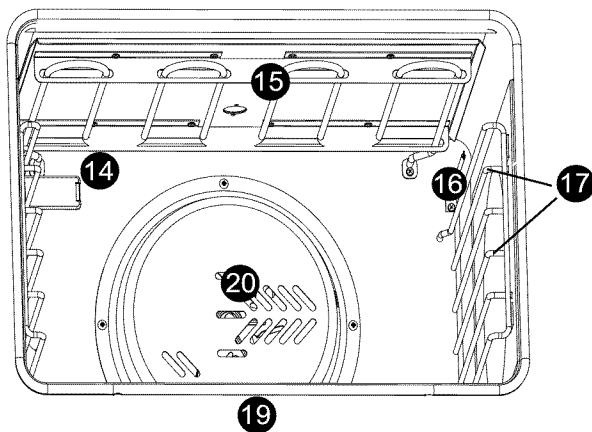
1. Flush Island Trim (shown, included), 22" High Shelf, 9" Low Back (ordered separately)
2. Burner Grates & Burners
3. Electric Griddle
4. Control Knobs, ExtraLow® Burners (2)
5. Control Knobs, Standard Burners (4)
6. Control Knob, Griddle (1)
7. Oven Temperature Selectors
8. Oven Mode Selector
9. Oven Light Switches
10. Oven Door
11. Secondary Oven (2 Full Access® Oven Racks, included)
12. Kick Panel
13. Range Feet (4)



### WARNING:

To provide proper ventilation of the range, **DO NOT** remove range feet.

Figure 4: 48" Dual Fuel Range Identification



### Electric Oven Interior

14. Oven Interior Light
15. Broil Element
16. Oven Thermostat
17. Rack Guides
18. Full Access Oven Racks (3 included, not shown)
19. Bake Element (hidden)
20. Convection Fan Cover (main oven only)

Figure 5: Oven Interior Identification

## Key for 36" Models

1. Flush Island Trim (included), 9" Low Back (shown), or 22" High Shelf (High Shelf and Low Back ordered separately)
2. Burner Grates & Burners
3. Control Knobs, ExtraLow® Burners (2)
4. Control Knobs, Standard Burners (4)
5. Oven Mode Selector
6. Oven Temperature Selector
7. Oven Light Switch
8. Oven Door
9. Kick Panel
10. Range Feet (4)
11. Electric Oven Interior (see *Figure 5*)



### WARNING:

To provide proper ventilation of the range, **DO NOT** remove range feet.

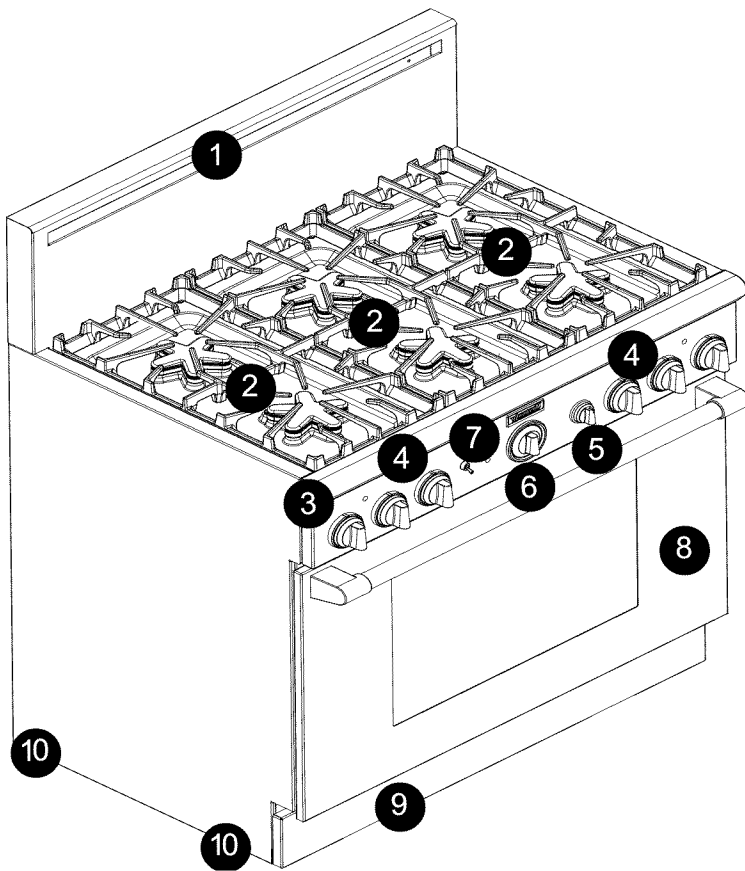


Figure 6: 36" Dual Fuel Range Identification

## Key for 30" Models

1. 6" Low Back (Flush Island Trim and High Shelf ordered separately)
2. Burner Grates & Burners
3. Center Grate
4. Control Knobs, ExtraLow® Burners (2)
5. Control Knobs, Standard Burners (2)
6. Oven Mode Selector
7. Oven Temperature Selector
8. Oven Light Switch
9. Oven Door
10. Kick Panel
11. Range Feet (4)
12. Electric Oven Interior (see *Figure 5*)



### WARNING:

To provide proper ventilation of the range, **DO NOT** remove range feet.

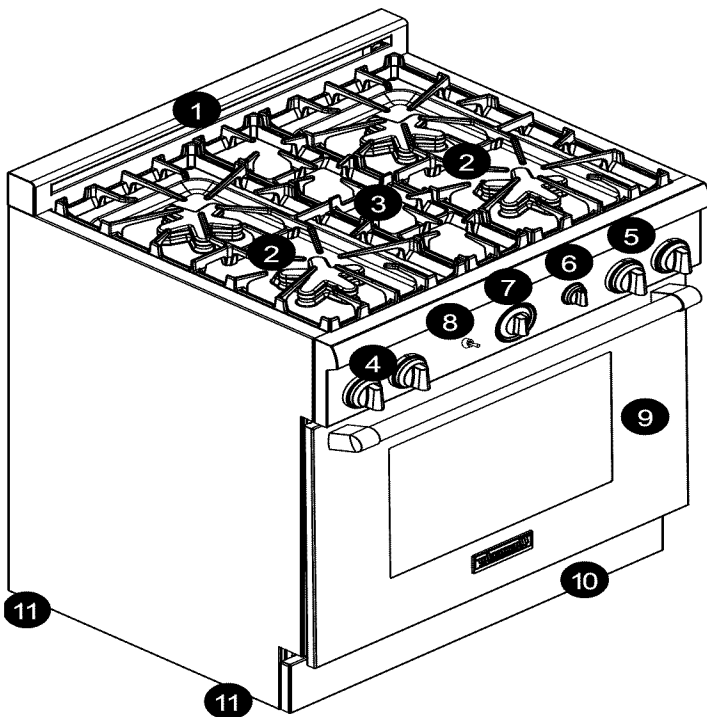


Figure 7: 30" Dual Fuel Range Identification

# Using The Cooktop

## Operation of the STAR<sup>®</sup> Burners

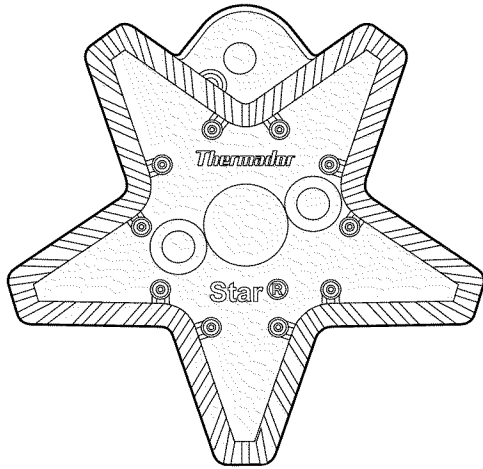


Figure 8: STAR Brass Burner Base

Your new range has sealed STAR burners. There are no burner parts under the cooktop to clean, disassemble or adjust. The cooktop features four or six gas surface burners; each rated at 18,000 BTU/HR (15,000 BTU/HR using Propane).

Each burner has a unique QuickClean<sup>™</sup> base feature which allows the burner and area around the burner to be easier to clean.

On all models, the two left burners have the exclusive ExtraLow<sup>®</sup> feature, the remaining burners are standard. Each burner has its own control knob.

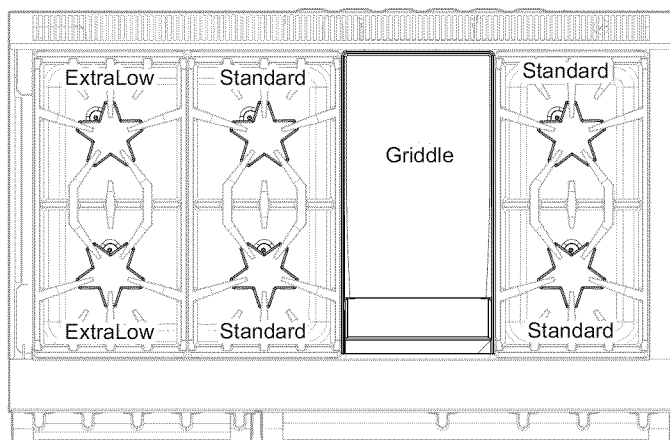


Figure 9: Burner Power Features

## Control Knobs

The control knobs for two gas burners, one in front and one in the rear, are located directly in front of and below the pair of burners on the control panel.

The symbol above each control knob identifies either the burner position on the cooktop or the griddle control, depending upon your model.

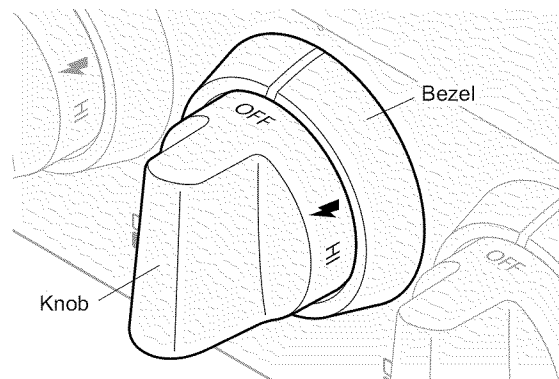


Figure 10: Standard Burner Control Knob

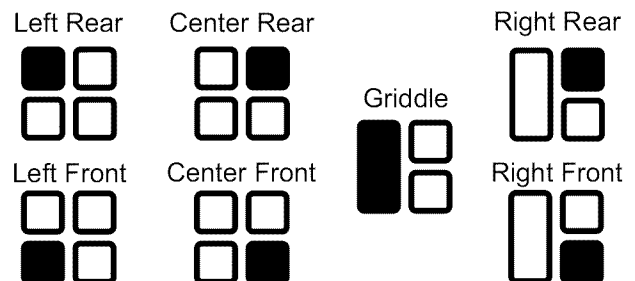


Figure 11: Cooktop Symbols

## Operation of the Burners

- Press in on the knob and turn it counter-clockwise to the HI setting on the knob.
- The igniter for the selected burner clicks and sparks.
- After burner ignition, the igniter stops clicking.
- Rotate the knob to any flame setting between HI and SIM.
- The blue signal light, between the burner knobs, will light when adjacent burners are lit. The light will remain on until the adjacent burners are turned off.

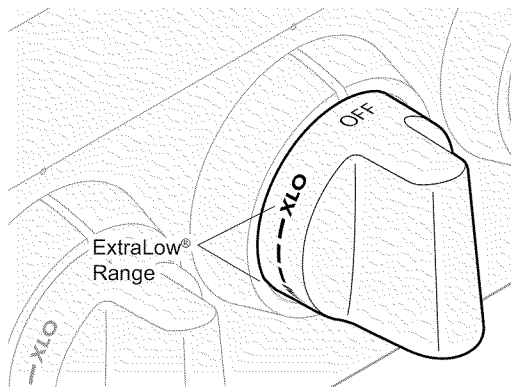
## BTU for Standard Burners

- HI is equivalent to 18,000 BTU / HR (15,000 BTU / HR using Propane).
- SIM is equivalent to 2,100 BTU / HR

## BTU for ExtraLow® Burner

- HI is equivalent to 18,000 BTU / HR (15,000 BTU / HR using Propane).
- SIM is equivalent to 3,000 BTU / HR
- XLO® is equivalent to 370 BTU / HR

The controls for the two left burners, front and rear, have flame settings even lower than the standard SIM settings.



**Figure 12: ExtraLow Burner Control Knob**

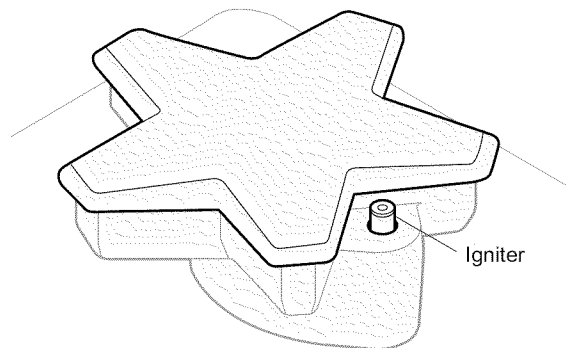
Figure 12 shows that the control knob has an additional range between the SIM and XLO settings. When the knob is set within this range, the flame cycles off and on. By varying the length of time the flame is off and on, the heat is reduced even further to cook delicate foods. For example, these very low settings are suitable for simmering and poaching, melting chocolate and butter, holding cooked foods at temperatures without scorching or burning, etc.

## Operation of the ExtraLow® Burners

- XLO, the very lowest setting, is achieved by cycling the flame ON for approximately 8 seconds and OFF for 52 seconds of each minute.
- When the knob is set just below the SIM setting, the flame will cycle ON for approximately 52 seconds and OFF for 8 seconds of each minute.
- To vary the amount of low heat to suit the food and quantity, the control can be set anywhere within the SIM and XLO range marked on the knob.

## ExtraLow Techniques

- The type and quantity of food affects which setting to use.
- The pan selected affects the setting. Its size, type, material, and whether a lid is used, all affect the consistency of the cooking temperature.
- To maintain a low or simmer heat, bring food to a rolling boil. Stir well, then cover the pan and lower the heat to a setting just below SIM.
- Check periodically to see if the control knob should be turned to another setting.
- If an over-size pan is used, the simmer action may occur mainly in the center of the pan. To equalize the temperature throughout the food, stir the food around the outer edges of the pan into the food in the center.
- It is normal to stir food occasionally while simmering. This is especially important when simmering for several hours, such as for a homemade spaghetti sauce or beans.
- When lowering the flame setting, adjust it in small steps.
- If the setting is too low to hold a simmer, bring the food back to a boil before re-setting to a higher heat.
- It is normal not to see simmer bubbles immediately after the food has been stirred.
- There may be bubbling when the flame cycles ON and no bubbles when the flame is OFF. Even when the flame is OFF, there will be steam and a slight quiver on the liquid's surface.



**Figure 13: Burner Igniter**

Each burner has its own electronic igniter that sparks when the burner is turned on. Each burner should light in 4 seconds or less. If a burner does not light, check to see that the burner cap is positioned correctly on the burner base.



If a burner fails to ignite, refer to “Before Calling for Service” on page 38.

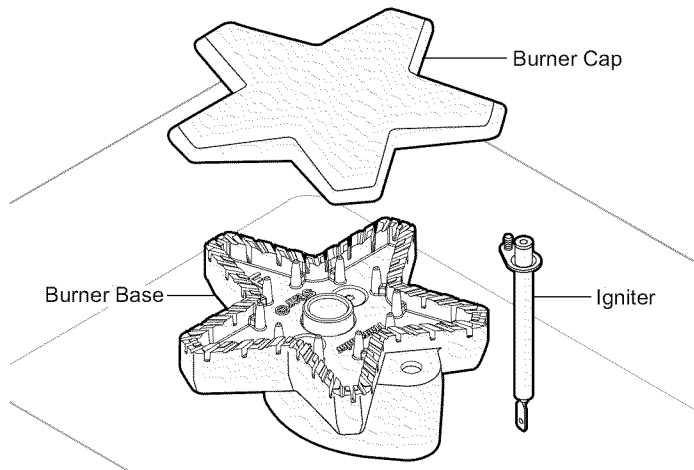


Figure 14: STAR® Burner Components



**CAUTION:**

**DO NOT** touch the STAR® burners when the igniters are sparking.

## Burner Cap Placement

The burner caps must be properly placed on the burner bases for the cooktop to function properly. If the burner cap is not properly placed, one or more of the following problems may occur.

- Burner flames are too high.
- Flames shoot out of burners.
- Burners do not ignite.
- Burner flames light unevenly.
- Burner emits gas odor.



**WARNING:**

To prevent flare-ups and avoid the creation of harmful by-products, do not use the cooktop without all burner caps and all burner grates properly positioned.



**WARNING:**

To prevent burns, do not touch burner caps or grates while hot. Turn the cooktop off and allow the burners to cool.

## Checking Burner Cap Placement

- Check each burner to make sure there is no gap between the burner cap and burner base. See *Figure 15 and Figure 16: Correct and Incorrect Burner Cap Placement* to see examples of correct and incorrect placements of the burner cap.
- You may gently try to move the burner caps from side to side to check if the caps are properly placed on the burner bases. When properly placed, each burner cap will rest flat on top of its burner base, and completely cover the star-shape of the burner base when viewed from the top as shown in *Figure 15: “Correct Burner Cap Placement”*.

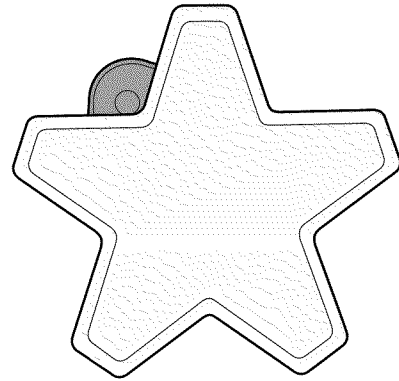
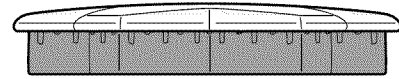


Figure 15: Correct Burner Cap Placement

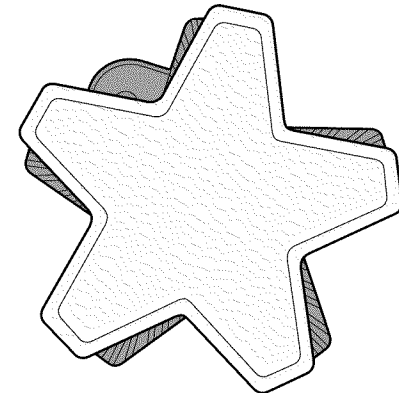


Figure 16: Incorrect Burner Cap Placement

## Automatic Re-Ignition

If any one or more burners blow out, the electronic igniter automatically activates to re-light the flame. **DO NOT touch the burners when the igniters are active.**

### IMPORTANT:

- For proper combustion DO NOT use the cooktop without the burner grates in place.
- There is a slight sound associated with gas combustion and ignition. This is a normal condition.
- On cooktops using propane gas (LP), a slight “pop” sound may be heard at the burner ports a few seconds after the burner has been turned off.

## Power Failure

- In the event of a power failure, only the standard burners can be manually lit. It is necessary to light each one individually. If the cooktop is being used when the power failure occurs, turn all knobs to the OFF position.
- The standard burners can be lit by holding a match at the ports and turning the control knob to the HI position. Wait until the flame is burning all around the burner cap before adjusting the flame to the desired height.
- The ExtraLow burners cannot be used during a power failure. **Be sure to turn them off.**
- If an ExtraLow burner is on when a power failure occurs, it cannot be turned back on until the knob is first turned off.
- The griddle cannot be used during a power failure.
- If you smell gas, refer to safety precautions in the front of this manual.



### WARNING:

In the event of a power failure, turn all knobs to the OFF Position. Only the Standard burners can be lit manually.

## Flame Height

- The correct flame height depends on 1) size and material of pan being used; 2) food being cooked; and 3) amount of liquid in the pan.
- Never extend the flame beyond the base of the pan.
- Use a low or medium flame for pan materials that conduct the heat slowly, such as porcelain coated steel or glass-ceramic.

## Flame Description

- The burner flame color should be blue with no yellow on the tips. It is not uncommon to see orange in the flame color; this indicates the burning of airborne impurities in the gas and will disappear with use.

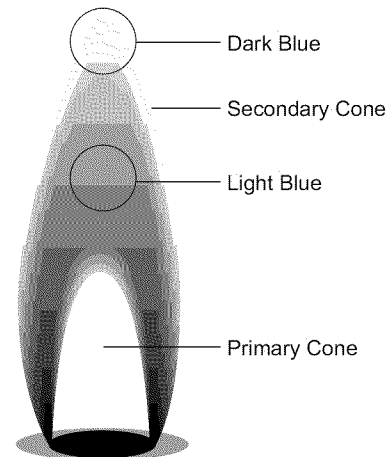


Figure 17: Flame Color

- With propane (LP) gas, slight yellow tips on the primary cone are normal.
- The flame should burn completely around the burner cap. If it doesn't, check that the cap is positioned correctly on the base and that the ports are not blocked.
- The flame should be stable with no excessive noise or fluttering.



### WARNING:

This product contains or, through ordinary use for its intended purpose, facilitates emission of chemicals or other substances known to the State of California to cause cancer and/or birth defects or other reproductive harm. To minimize exposure to these chemicals:

- 1) The STAR® burners should be adjusted by a certified installer or agency to ensure proper combustion.
- 2) Ensure proper ventilation with an open window or use a ventilation fan or hood when cooking with Gas.
- 3) **ALWAYS** operate the unit according to the instructions in this manual.

# Cookware Recommendations



## WARNING:

To avoid risk of serious injury, damage to appliance or cookware, please observe the following:

- Bakeware, such as large casserole pans, cookie sheets, etc. should never be used on the cooktop.
- Placement of large stock pots should be staggered when used on the cooktop.

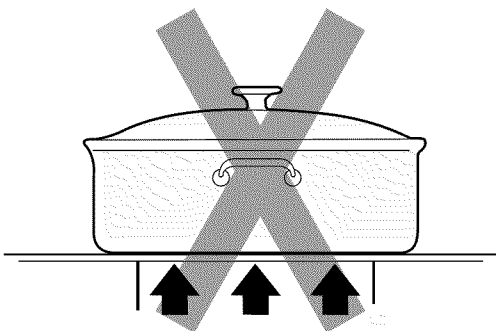


Figure 18: Base Diameter

- Select the base diameter to match the diameter of the flame. The diameter of the flame should be the same size as the pan base or slightly smaller. Oversize or under size pans sacrifice cooking performance. A 5½" (140 mm) base size is generally the smallest recommended.
- Avoid using high flame setting with a pan larger than the grate or with one that spans more than one burner, such as a griddle, for prolonged periods of time. This can result in poor combustion that generates harmful by-products.

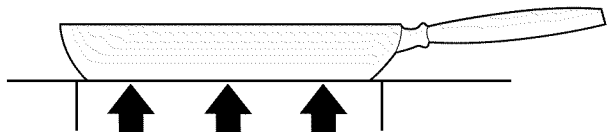


Figure 19: Balanced Pan

- Balance is important for stability and even cooking. The handle must not be heavier than the pan and tilt it unevenly. A pan must sit level on the grate without rocking or wobbling.
- Food packaged in aluminum foil should not be placed directly on the burner grate. Aluminum foil can melt during cooking.

- Do not let plastic, paper or cloth come in contact with a hot burner grate. They may melt or catch fire.
- Never let a pan boil dry. This can damage your pan and the cooking surface.
- Professional quality pans with metal handles are recommended because plastic handles can melt or blister if the flame extends up the side of the pan. Professional quality pans are found at restaurant supply stores and gourmet specialty shops. All cookware should have these characteristics: good heat conductivity, good balance, correctly sized base diameter, a heavy, flat base, and a proper fitting lid.
- For best cooking results, the flame should be contained under the bottom of the pan.
- Aluminum and copper are pan materials that conduct the heat quickly and evenly. These metals are sometimes attached to the base or in the core between stainless steel.

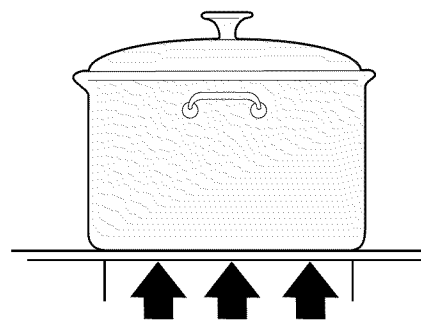


Figure 20: Flat Base Pan

- A heavy, flat base is more apt to remain flat when heated. Pan bases that are warped, dented, ridged or too lightweight will heat unevenly. Heat and cool pans gradually to avoid sudden temperature changes which tend to distort cookware. Do not add cold water to a hot pan.
- A properly fitting lid will shorten cooking time and make it possible to use lower heat settings.

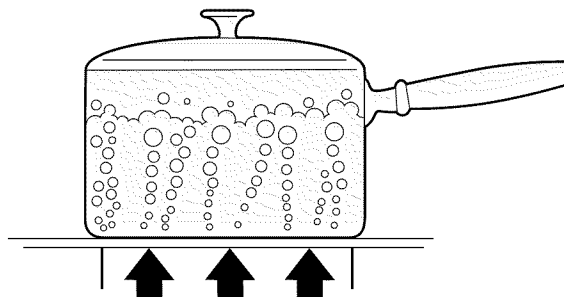


Figure 21: Covered Pan

## Specialty Cookware

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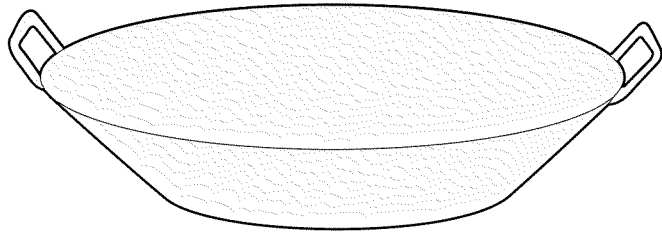


Figure 22: Flat-Bottom Wok Pan

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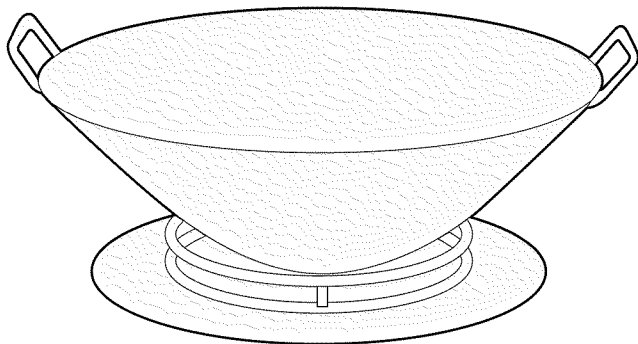


Figure 23: Round-Bottom Wok in Support Ring

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- **Woks** — Either flat based or round bottom woks with the accessory ring can be used on all models. Round bottom woks must be used with a support ring. The Wok pan and the porcelain-coated cast iron wok support ring must be purchased separately (PWOKRINGHC).
- **Canners and Stock Pots** — Select one with a base diameter that extends no more than 2" (51mm) beyond the grate.

### Standard Size Water Bath Canner

21 to 22 quarts (19.95 to 20.9 liters), with an 11" to 12" base (279–305 mm) and a 9" to 11" depth (229–279 mm).

### Standard Size Pressure Canner

8 to 22 quarts (7.6 to 20.9 liters), with an 8" to 11" base (203–279 mm) and a 6½" to 12" depth (165–305mm).

#### Canning Tips:

- A flat base pan is preferred to one with a concave, convex or rippled base.
- When using two canners at the same time, use staggered burners. Do not block air to the burners. A flame needs the right amount of air for complete combustion.
- Use a cover on a canner when bringing the contents to a boil.
- Once the contents have reached a boil on HI, use the lowest flame possible to maintain the boil or pressure.
- Canning produces a large amount of steam. Take precautions to prevent burns.

## Cooking Recommendations

Use the chart on *page 18* through *page 20* as a guide. The settings you use will vary depending on the pans selected and the starting temperature of the food.

On the chart, the "Finish Setting" has been separated for the standard and ExtraLow burners. There may or may not be a change between the two burner settings.

The ExtraLow® setting can be either a cooking or a holding setting.

Raise or lower the flame setting gradually. Allow time for the pan and the food to adjust to the new setting.

# Surface Burner Cooking Recommendations

Food	Start Setting	Finish Setting Standard STAR® Burners	Finish Setting ExtraLow® (XLO®) STAR Burners
<b>BEVERAGES</b> Cocoa	<b>MED</b> – heat milk, cover	<b>SIM</b> – finish heating	<b>XLO</b> – keep warm, cover*
<b>BREADS</b> French Toast, Pancakes, Grilled Sandwiches	<b>MED</b> – preheat skillet	<b>SIM to MED</b> – cook	Same as for Standard Burners
<b>BUTTER</b> Melting	<b>SIM</b> – to start melting		Allow 5 – 10 minutes to melt
<b>CEREALS</b> Cornmeal, Grits, Oatmeal	<b>HI</b> – cover, bring water to a boil, add cereal	<b>SIM to MED</b> – finish cooking according to package directions	Same as for Standard Burners <b>XLO</b> – to hold, cover*
<b>CHOCOLATE</b> Melting	<b>XLO</b> – may be stirred to hasten melting		<b>XLO</b> – allow 10 – 15 minutes to melt <b>XLO</b> – to hold*
<b>DESSERTS</b> Candy	<b>SIM to MED</b> – cook following recipe	<b>SIM to MED</b>	Same as for Standard Burners
Pudding and Pie Filling Mix	<b>SIM to MED SIM</b> – cook according to package directions	<b>SIM</b>	Same as for Standard Burners
Pudding	<b>SIM to MED SIM</b> – bring milk to a boil	<b>SIM</b>	Same as for Standard Burners
<b>EGGS</b> Cooked in Shell	<b>MED HI</b> – cover eggs with water, add lid, bring to boil		<b>XLO</b> – cook 3 – 4 minutes for soft cooked; or 15 – 20 minutes for hard cooked
Fried, Scrambled	<b>SIM to MED</b> – melt butter, add eggs	<b>SIM</b> finish cooking	Same as for Standard Burners <b>XLO</b> – to hold for a short period*
Poached	<b>HI</b> – bring water to the boiling point, add eggs	<b>SIM to MED</b> – finish heating	Same as for Standard Burners
<b>MEAT, FISH, POULTRY</b> Bacon, Sausage Patties	<b>MED HI</b> – until meat starts to sizzle	<b>SIM to MED</b> – finish cooking	Same as for Standard Burners
Braising: Swiss Steak, Pot Roast, Stew Meat	<b>MED HI</b> – melt fat, then brown on <b>MED HI</b> , add liquid, cover		<b>XLO</b> – Simmer until tender
Quick Frying: Breakfast Steaks	<b>MED HI</b> – preheat skillet	<b>MED HI</b> – fry quickly	Same as for Standard Burners
Frying: Chicken	<b>MED HI</b> – heat oil, then brown on <b>MED</b>	<b>SIM</b> – cover, finish cooking	Same as for Standard Burners
Deep Frying: Shrimp	<b>MED HI</b> – heat oil	<b>MED to MED HI</b> – to maintain temperature	Same as for Standard Burners

\* These foods should be stirred occasionally.

<b>Food</b>	<b>Start Setting</b>	<b>Finish Setting Standard STAR® Burners</b>	<b>Finish Setting ExtraLow® (XLO®) STAR Burners</b>
Pan Frying: Lamb Chops, Thin Steaks, Hamburgers, Link Sausage	<b>MED HI</b> – preheat skillet	<b>MED</b> – brown meat	Same as for Standard Burners <b>XLO</b> – to hold
Poaching: Chicken, whole or pieces, Fish	<b>MED HI</b> – Cover, bring liquids to a boil		To finish cooking
Simmering: Stewed Chicken, Corned Beef, Tongue, etc.	<b>HI</b> – cover, bring liquid to a boil		<b>XLO</b> – to simmer slowly <b>XLO</b> – to hold, cover
<b>PASTAS</b> Macaroni, Noodles, Spaghetti	<b>HI</b> – bring water to a boil, add pasta	<b>MED HI to HI</b> – to maintain a rolling boil	Same as for Standard Burners
<b>POPCORN</b> (use a heavy, flat bottom pan)	<b>HI</b> – cover, heat until kernels start to pop	<b>MED HI</b> – finish popping	Same as for Standard Burners
<b>PRESSURE COOKER</b> Meat	<b>MED HI to HI</b> – build up pressure	<b>SIM to MED</b> – maintain pressure	Same as for Standard Burners
Vegetables	<b>HI</b> – build up pressure	<b>SIM to MED</b> – maintain pressure	Same as for Standard Burners
<b>RICE</b>	<b>HI</b> – cover, bring water and rice to a boil	<b>SIM</b> – to maintain Low Boil. Cover and cook until water is absorbed	Same as for Standard Burners <b>XLO</b> – to hold, cover
<b>SAUCES</b> Tomato Base	<b>MED HI</b> – cook meat/vegetables, follow recipe	<b>SIM</b> – to maintain simmer	<b>XLO</b> – simmer to thicken sauce, uncovered
White, Cream, Bernaise,	<b>MED</b> – melt fat, follow recipe	<b>SIM</b> – finish cooking	<b>XLO</b> – to hold, cover*
Hollandaise	<b>XLO</b>		<b>XLO</b> – to hold, lowest setting for short period, stir frequently
<b>SOUPS, STOCK</b>	<b>HI</b> – cover, bring liquid to a boil	<b>SIM</b> to maintain simmer	Simmer <b>XLO</b> – to hold, cover*
<b>VEGETABLES</b> Fresh	<b>HI</b> – cover, bring water and vegetables to a boil	<b>SIM to MED</b> – cook 10 minutes, or until tender	Same as for Standard Burners <b>XLO</b> – to hold, cover
Frozen	<b>HI</b> – cover, bring water and vegetables to a boil	<b>SIM to MED</b> – cook according to package directions	Same as for Standard Burners
Deep Frying	<b>HI</b> – heat oil	<b>MED to MED HI</b> – maintain frying temperature	Same as for Standard Burners
In Pouch	<b>HI</b> – bring water and pouch to a boil	<b>SIM to MED</b> – cook according to package directions	Same as for Standard Burners
Saute	<b>HI</b> – heat oil or melt butter, add vegetables	<b>SIM to MED</b> – cook to desired doneness	Same as for Standard Burners
Stir Fry	<b>HI</b> – heat oil, add vegetables	<b>HI to MED HI</b> – finish cooking	Same as for Standard Burners

\* These foods should be stirred occasionally.

# Using the Electric Griddle (available on some models)


## Description


The built-in griddle is made of restaurant-quality aluminum that has a non-stick titanium coating. This produces a surface with even heat that is easy to clean.

A maple chopping block (PC12CHPBLK), stainless steel cover (PA12CVRJ), and non-stick titanium coated aluminum grill plate (PA12GRILHC) are available as accessories and are purchased separately. The maple chopping block and stainless steel cover are sized to fit on top of the surface when the griddle is not being used. The non-stick grill plate accessory is designed to replace the griddle plate. See the instructions that come with the grill plate accessory for more details.

The maple chopping block and stainless steel cover must be removed before turning the griddle on.

- The griddle plate (or grill plate accessory) must always be in place when the griddle is turned on.
- The electric griddle element is rated 120 volts AC, 1,630 watts.

	<b>CAUTION:</b>
The griddle element is hot after use. Allow sufficient time for griddle components to cool before cleaning.	

	<b>WARNING:</b>
To avoid risk of injury, <b>NEVER</b> operate griddle without the griddle plate installed. <b>NEVER</b> use griddle in a manner that is not prescribed by the Use and Care Guide.	

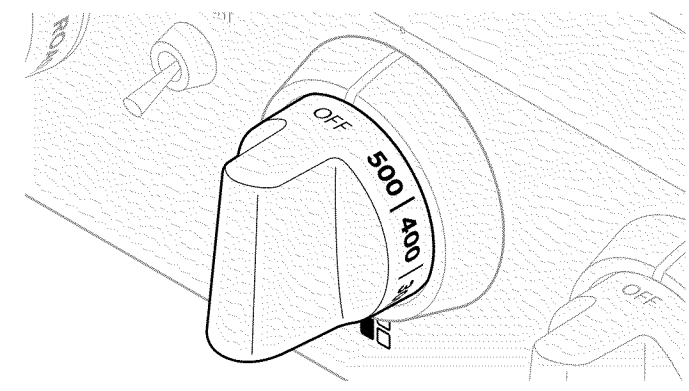


Figure 24: Griddle Control Knob

- The griddle is electronically controlled with temperatures marked on the knob from 150 – 500°F (66 – 260°C).
- There are no fixed settings on the knob.
- Press and turn the knob clockwise to the temperature setting.

## Preparing the Griddle (not all models)

If the range is equipped with an electric griddle, check the griddle frame adjustment by pouring two tablespoons of water on the back of the griddle plate. The water should slowly roll into the grease tray. If not, adjust the two screws under the back of the frame. Start with one half turn counterclockwise (CCW) of the screws. Further adjustment should be made by one-quarter turn until water slowly flows into the grease tray (*Figure 25*).

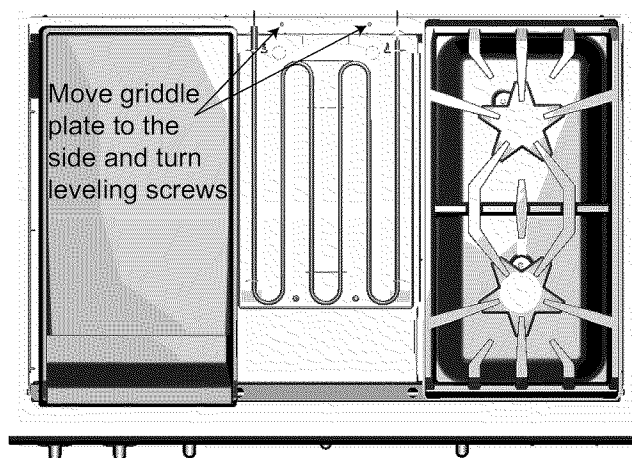


Figure 25: Griddle Plate Leveling Screws

The griddle plate should be washed with warm soapy water then rinsed with clear water prior to use. The griddle may be used without any butter, margarine or oil. However, a very small amount may be used to flavor foods.

Any utensil may be used on the griddle surface. Care should be taken that the surface is not gouged when utensils are used. **DO NOT** cut directly on the griddle plate.

**NOTICE:**

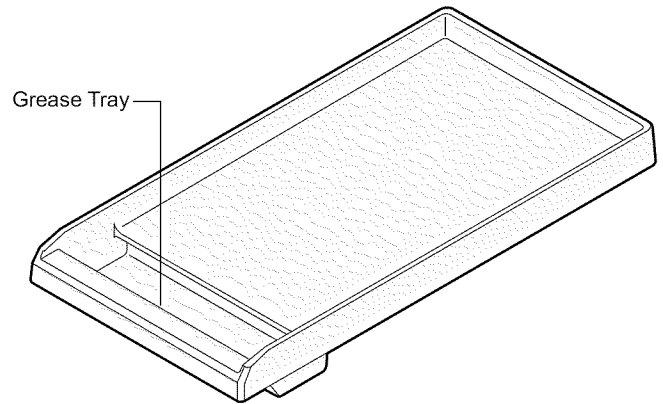
Griddle/Grill performance may vary if there is an excessive amount of airflow in the vicinity of the appliance. The excessive airflow could be from an air-conditioning register or ceiling fan blowing at the cooktop. This could create longer than normal heat-up time, or it could cause the Griddle/Grill temperature to be higher or lower than the knob setting.

**NOTE:**

Having a properly installed ventilation hood is not considered a source of excessive airflow.

**Griddle Cooking Recommendations**

Food	Setting
Eggs	325°F – 350°F (160°C – 180°C)
Bacon, Breakfast Sausage	375°F – 400°F (190°C – 200°C)
Toasted Sandwiches	350°F – 375°F (180°C – 190°C)
Boneless Chicken Breasts	375°F – 400°F (190°C – 200°C)
Boneless Pork Chops, 1" (25.4 mm) thick	375°F – 400°F (190°C – 200°C)
Boneless Pork Chops, 1" (25.4 mm) thick	375°F – 400°F (190°C – 200°C)
Steaks, 1" (25.4 mm) thick	400°F – 425°F (200°C – 220°C)
Ground Beef Patties, 6 ounces	375°F – 400°F (190°C – 200°C)
Hot Dogs	350°F – 375°F (180°C – 190°C)
Ham Slices, ½" (12.7 mm) thick	350°F – 375°F (180°C – 190°C)
Pancakes, French Toast	400°F – 425°F (200°C – 220°C)
Potatoes, Hash Browns	375°F – 400°F (190°C – 200°C)

**Griddle Grease Tray****Figure 26: Grease Tray**

- Clean the tray after every use. When removing the tray, use care when tipping it so that the contents do not spill.
- The griddle plate and its grease tray are dishwasher safe.
- After cooling, pour the grease into a grease-resistant container for disposal.

**Cooking on the Griddle**

1. Turn the knob to the appropriate cooking temperature to preheat the griddle.
2. Preheat until the griddle light goes off.
3. Add butter, margarine, oil or shortening if desired.



# Using the Oven

## Oven Functions

### Tips for Bake

#### Preheating the Oven

Most cooking times in recipes are designed for a preheated oven and require that the oven already be at a certain temperature before cooking starts. Refer to your recipe for preheating recommendations. Preheating time depends on the temperature setting and the number of racks in the oven (refer also to "To Set the Oven" on page 25).

#### Getting the Best Results

- Minimize opening the door by using a timer and the interior oven light.
- Use the bakeware recommended in the recipe.
- Store the broiler pan(s) outside the oven. An extra pan without food, affects the browning and cooking.
- The type of pan used affects the browning. For tender, golden brown crusts, use light non-stick/anodized or shiny metal pans. For brown crisp crusts, use dark non-stick/anodized or dark, dull metal pans or glass bakeware. These may require lowering the bake temperature 25°F (14°C).

#### Bakeware Type

- Metal bakeware (with or without a non-stick finish), heat-proof glass, glass-ceramic, pottery, or other utensils are suitable for the oven.
- Suitable cookie sheets have a small lip on one side only. Heavy sheets or those with more than one side may affect the baking time.
- The 36" and 48" (914mm and 1219mm) ovens will hold a full-sized commercial baking sheet (18" x 26") (457mm x 660mm).

#### Full Access® Oven Racks

Your range includes three extendable, gliding racks that can be pulled out and pushed back into the oven with minimum effort - even while supporting a large turkey or roast. If yours is a 48" model, the secondary oven of your range also has two gliding racks.

- **Placing racks in oven:** To insert racks into the oven, hold the rack with the back rail up toward the back. Place the safety hooks under the front of the rail guides. Push the rack into the oven, lifting the rack stops over the front of the rail guides. Slide the rack into position.

- **Removing racks from oven:** To remove racks or reposition racks in the oven, pull the rack toward the front of the oven. Lift up the front of the rack over the safety stops and pull from the oven.
- Place oven racks in desired positions before turning on the oven.
- When placing food on a rack, pull the rack out to the stop position. The racks are designed to lock and not tilt when pulled forward.



Figure 27: Full Access Oven Rack

#### Bake Rack Positions

Rack level positions in the oven are numbered like an elevator. Number one level is the lowest (Figure 28).

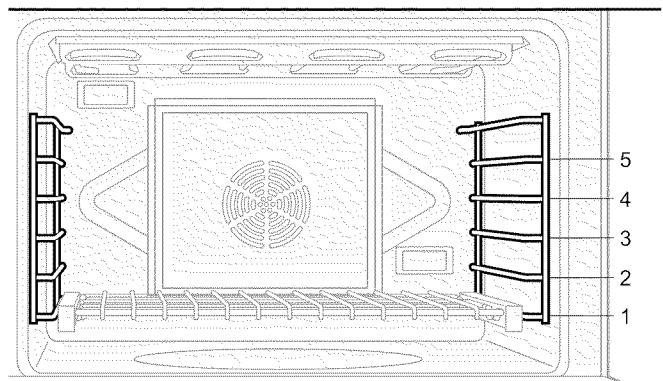
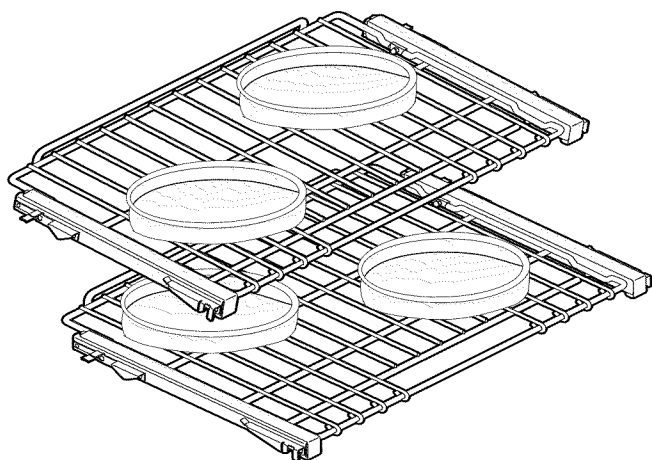


Figure 28: Main Oven Rack Positions

#### Pan Placement

- Allow at least 1" (25.4mm) of space between the pans and the oven walls so heat can circulate around each pan.

- Stagger bakeware so that one is not directly above another. Allow 1½" (38mm) above and below each pan.



**Figure 29: Pan Placement**

## Rack Positions

### One Rack Baking

- The Bake mode is best for baking on one rack with rack level #3 used for most baked items. If the item is tall, such as an angel food cake, rack level #2 may be used. Pies are best baked on rack level #2 to make certain the bottom of the crust is done without over browning the top. When large pieces of meat or poultry are roasted, such as a prime rib of beef or a turkey, rack level #2 is the preferred rack.

### Two Rack Baking

- Casserole dishes may be baked using rack levels #2 and #4.

### Three Rack Baking

- If three-rack baking is desired, the Convection Bake mode should be used.

## Secondary Oven (48" Models)

- Baking on rack #3 will result in the best product. When additional height is needed, rack #2 may be used. The use of rack #2 with pies will result in a crisp bottom crust without over baking the top.

# Convection

## Cooking with Convection

There are many advantages to cooking with convection. In the convection system, a fan in the back of the oven moves heated air evenly around the oven. The moving air provides even heat so foods can be placed on any rack level with consistent results. Multiple racks of foods can be cooked or large quantities of foods can be cooked at the same time. Foods will cook thoroughly without having to rotate pans.

Low, shallow bakeware should be used with convection cooking. This allows the heated air to circulate around the food. Pans with high sides or pans that are covered are not suitable for convection cooking because high sides or lids prohibit the warm air from circulating around the food.

Your favorite pans and cookware can be used for convection cooking provided they have low sides to allow the heated air to circulate around the food. Any food cooked uncovered will brown evenly and form a nice crust. Foods in covered dishes (casseroles, pot roast) or delicate custards do not benefit from convection cooking.

## Convection Baking

Time can be saved by baking an entire batch of cookies at the same time. The cookies will bake evenly and be done all at once. The baking time may be shorter due to the warm circulating air. For small items such as cookies, check to see if they are done one to two minutes before the recipe time. For larger baked items such as cakes, check five to six minutes before the time indicated on the recipe.

Convection cooking of meat and poultry will result in foods that are brown and crispy on the outside and moist and juicy on the inside. Large meat or poultry items may cook up to 30 minutes less than the suggested time so check them so they will not be over baked. A meat thermometer or an instant read thermometer will provide more accurate results than the "minute per pound" method. The larger the piece of meat or poultry, the more time you will save.

### Converting Conventional Baking to Convection Baking

To convert most recipes for baked items (cookies, cakes, pies, etc.); reduce the oven temperature by 25°F (14°C). For meats and poultry, the temperature should not be reduced. The same temperature recommended in recipes and cooking charts for meats and poultry should be used.

## Tips for Convection Bake

### Preheating the Oven

Preheat the oven before cooking any foods, except large pieces of meat or poultry. See your recipe for preheating recommendation. Preheating time depends on the temperature setting and the number of racks in the oven.

### Temperature Setting

When using Convection Bake, reduce the temperature recommended in the recipe by 25°F (14°C), although the temperature does not need to be reduced when cooking meats and poultry. When roasting meats, check internal temperature prior to time recommended by recipe to prevent over cooking.

### High Altitude Baking

When baking at high altitudes, in either Bake or Convection Bake, recipes and baking times vary. For accurate information, write the Extension Service, Colorado State University, Fort Collins, Colorado 80521. There may be a cost for the bulletins. Specify the type of information you want (example: cakes, cookies, breads, etc.).

### Condensation

It is normal for a certain amount of moisture to evaporate from the food during any cooking process. The amount depends on the moisture content of the food. The moisture will condense on any surface cooler than the inside of the oven, such as the control panel.

### Rack Positions (see *Figure 1 on Page 8*)

#### — One-Rack Baking

- When baking on one rack, best results are obtained in the bake mode (See “*One Rack Baking*” on page 23.)
- When roasting a turkey or a large piece of meat, convection bake may be used. Rack #2 is the most appropriate rack.

#### — Two-Rack Baking

- Racks #2 and #4 are most appropriate when using the convection bake mode for cakes, cookies, biscuits, and other baked goods. Cake pans should be staggered on racks #2 and #4. Cookie sheets should be placed on rack #2 directly under the one on rack #4.
- To bake several casseroles, frozen pies, or cakes, use racks #2 and #4.
- These two racks can also be used for a large oven meal.

#### — Three-Rack Baking

- When several sheets of cookies are to be baked, bake them on racks #1, #3, and #5. Place the baking sheets directly above each other on the respective racks to allow air to flow around the baking sheets.

#### — Bakeware Type

- Aluminum bakeware gives the best browning results.
- Cookie sheets with only one or two sides give the best results. Aluminum commercial half-sheets or professional cooking utensils may be used but baking times may be increased.

#### — Placement

- For better browning, utensils such as cookie sheets, jelly roll pans and rectangular baking pans should be placed crosswise on the rack with the shorter sides on the right and the left. This allows the air to circulate freely.
- When baking on more than one rack, cookie sheets should not be staggered; round cake pans should be staggered.
- When baking on more than one rack, cookie sheets and rectangular (9 x 13) cake pans should not be staggered; round cake pans should be staggered.



### CAUTION:

**When using the oven in any mode never use aluminum foil to cover the oven racks or to line the oven.** It can damage the oven and cause a fire hazard if heat is trapped under it.

### Minimum Internal Cooking Temperatures

The minimum internal temperatures that foods must reach to be considered safe to eat, as determined by the *U. S Department of Agriculture Food Safety and Inspection Service*, are as follows:

<b>Fresh ground beef, veal, lamb, pork</b>	160°F (72°C)
<b>Beef, veal, lamb roasts, steaks, chops</b>	
Medium rare	145°F (63°C)
Medium	160°F (71°C)
Well done	170°F (77°C)
<b>Fresh pork roasts, steaks, chops</b>	
Medium	160°F (72°C)
Well done	170°F (77°C)
<b>Ham</b>	
Cook before eating	160°F (72°C)
Fully cooked, to reheat	140°F (60°C)
<b>Poultry</b>	
Ground chicken, turkey	165°F (74°C)
Whole chicken, turkey	180°F (82°C)
Breasts, roasts	170°F (77°C)
Thighs and wings	180°F (82°C)
Stuffing (cooked alone or in bird)	165°F (74°C)
Egg dishes, casseroles	160°F (72°C)
Leftovers	165°F (74°C)

# Setting Bake, Convection Bake, or Extended Bake

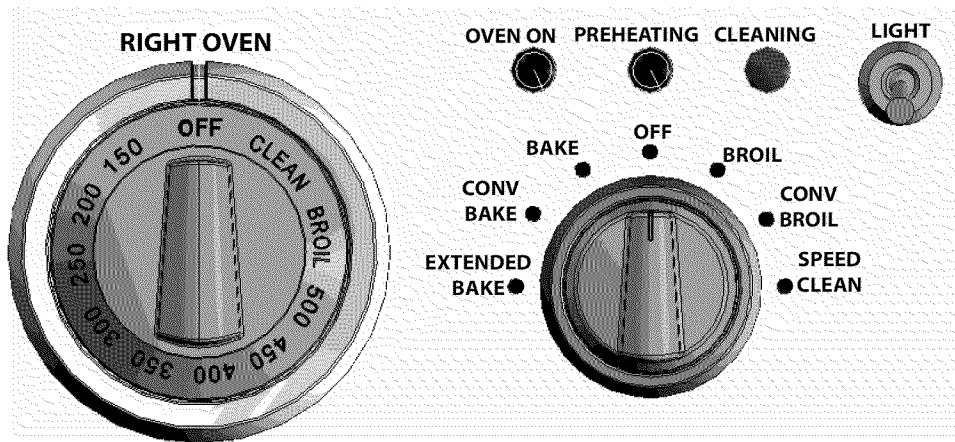


Figure 30: Oven Controls for 36" Range

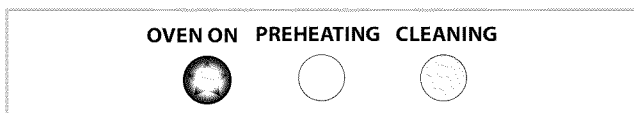
These cooking modes are for baking, roasting or warming using one, two or three racks.

## To Set the Oven

1. Select **BAKE** mode or **CONVECTION BAKE** mode using the Mode Selector Knob.
2. Set oven temperature using the Temperature Selector Knob.
  - If using **CONVECTION BAKE**, set the Temperature Selector Knob 25°F (14°C) below the temperature suggested in the recipe. No variation in temperature setting is necessary if roasting meats or poultry.
  - The **OVEN ON** and **PREHEATING** lights turn on.



- The oven is preheated to the set temperature when the **PREHEATING** light cycles off the first time.



- The **OVEN ON** light stays on during any active cooking mode, and remains on until either of the oven temperature knobs is turned to the **OFF** position.

### NOTE:

The interior oven light is operated by a separate switch that turns the light on and off, independent of any control setting.

## Extended Bake

This unique cooking mode is for assisting the user for compliance to Sabbath principles.

1. Select **EXTENDED BAKE** mode using the Mode Selector Knob.
2. Set oven temperature using the Temperature Selector Knob.
  - **PREHEATING PHASE** is the same as for other **BAKE** modes. Once the oven is preheated to the selected temperature, the twenty-two (22) minute Extended Bake cycle begins.
  - **ACTIVE PHASE** baking is as usual for nineteen (19) minutes, except during the last two (2) minutes, the **OVEN ON** and **PREHEATING** lights blink slowly (on 3 sec. / off 3 sec. together) to serve as a **NOTICE** for the final phase.



- **ACCESS PHASE (oven idle):** Once the two lights stop blinking (both remaining on), the final three (3) minutes allows the Sabbath user access to the oven without effecting a change in the operation of the range. Heating elements remain off during this phase.

# Setting Warm & Proof in the Secondary Oven (48" Range)

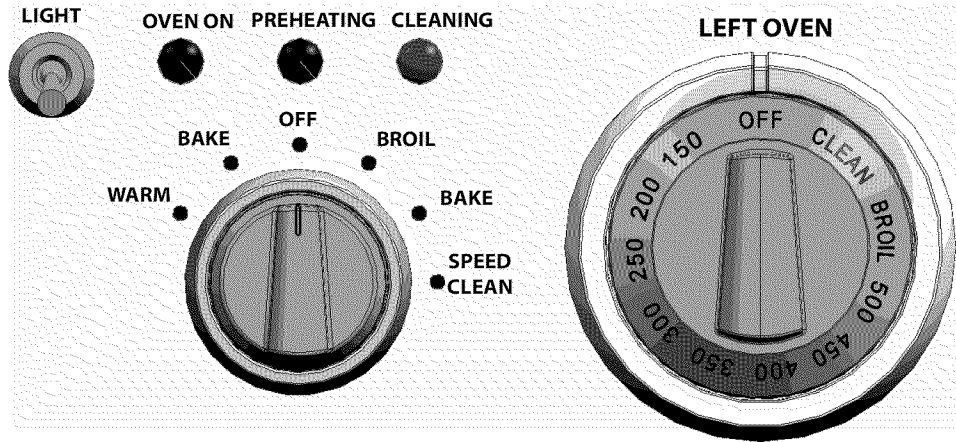


Figure 31: Secondary Oven Controls for 48" Range

1. Select **BAKE** mode using the Mode Selector Knob.
2. Set oven temperature using the Temperature Selector Knob.

- The **OVEN ON** and **PREHEATING** lights turn on.



- The oven is preheated to the set temperature when the **PREHEATING** light cycles off the first time.



- The **OVEN ON** light stays on during any active cooking mode, and remains on until either of the oven temperature knobs is turned to the **OFF** position.

## Warm (secondary oven, only on 48" models)

This feature maintains the warm environment needed for keeping cooked foods hot.

### To Set the Secondary Oven to Warm

1. **To preheat the oven** turn the Mode Selector Knob to **WARM** about 10 minutes before use. Do not rotate the Temperature Selector Knob to any setting (leave in **OFF** position).
2. **Place the hot food in the secondary oven then close the door.** The ideal temperature for keeping the food warm will be maintained until the Selector Switch is turned off.

3. **Do not open the oven door unnecessarily.** Opening the door will reduce the temperature of the oven.



## CAUTION:

### Food Safety Concern Food Poisoning Possible

Do not use the Warm Mode for cooking food. The Warm Mode is not hot enough to cook foods at safe temperatures.

## Proof (secondary oven, only on 48" models)

The proof feature maintains the warm, non-drafty environment needed for proofing yeast leavened products.

### To Set the Secondary Oven for Proofing

1. Place dough in dish in the small oven. Close the door.
2. Select **PROOF** using Mode Selector Knob. Do not rotate the Temperature Selector Knob to any setting (leave in the **OFF** position).
  - The ideal temperature for proofing will be maintained until the Mode Selector Knob is rotated to **OFF** position.
3. Set a minute timer for the minimum proof time.
  - Do not open the oven door unnecessarily. Opening the door will lower the temperature of the air in the oven and lengthen the proofing time.

Proofing time may be decreased when using the large oven at the same time you are proofing. Check bread product early to avoid over-proofing. If you are using the large oven for extended periods of time we recommend, for optimum results, that you complete the proofing before using the large oven.

**Automatic operation of the cooling blower:**

The cooling blower does not activate in any of the BAKE modes for temperature settings less than 300°F (149°C). For temperature settings of 300°F (149°C) or greater, the cooling blower activates only after the oven reaches 300°F (149°C), while heating up to the set temperature. When the oven is turned off, the blower remains on until the oven temperature cools to 200°F (93°C). Likewise for BROIL modes, the cooling blower activates only after the oven reaches 300°F (149°C), while heating up to broiling temperature.

DO NOT continue to use the oven if the cooling blower fails to activate while baking at temperature settings of 300°F (149°C) or greater, or while broiling. Call a qualified service agency to repair the range.

**NOTE:**

The interior oven light is operated by a separate switch that turns the light on and off, independent of any control setting.

## Other Uses of Bake

### Slow Cooking and Low Temperature Uses of the Oven

In addition to providing perfect temperatures for baking and roasting, the oven can be used at low temperatures to keep hot, cooked foods at serving temperature and to warm plates.

Hot cooked foods can be kept at serving temperatures. Set the oven to bake and use the temperature suggested on the chart.

For best results, preheat the oven to the desired temperature.

 <b>WARNING:</b>
<p><b>FOOD SAFETY</b> — The United States Department of Agriculture advises: <b>DO NOT</b> hold foods at temperatures between 40°F – 140°F (4°C – 60°C) for more than 2 hours. Cooking raw foods below 275°F (135°C) is not recommended.</p>

**Suggested Temperature Recommendations to Keep Food Hot**

FOOD	OVEN TEMPERATURE
Beef	150°F (70°C)
Bacon	200° – 225°F (90 – 110°C)
Biscuits and Muffins (covered)	175° – 200°F (80 – 90°C)
Casserole (covered)	175° – 200°F (80 – 90°C)
Fish and Seafood	175° – 200°F (80 – 90°C)
Deep Fried Foods	200° – 225°F (90 – 110°C)
Gravy or Cream Sauces (covered)	175°F (80°C)
Lamb and Veal Roasts	175° – 200°F (80 – 90°C)
Pancakes and Waffles (covered)	200° – 225°F (90 – 110°C)
Potatoes Baked	200°F (90°C)
Mashed (covered)	175°F (80°C)
Pies and Pastries	175°F (80°C)
Pizza (covered)	225°F (110°C)
Pork	175° – 200°F (80 – 90°C)
Poultry (covered)	175° – 200°F (80 – 90°C)
Vegetables (covered)	175°F (80°C)

## Baking Recommendations

FOOD	PAN SIZE	CONTROL TEMPERATURE SETTING	TOTAL SUGGESTED COOKING TIME
Cookies	12" x 15" Cookie Sheet	375°F (190°C)	8 – 12 minutes
Layer Cakes	8" or 9" Round	350°F (180°C)	25 – 35 minutes
Sheet Cakes	9" x 13" Pan	350°F (180°C)	30 – 40 minutes
Bundt™ Cakes	12 Cup	325°F (165°C)	60 – 75 minutes
Brownies or Bar Cookies	9" x 9" Pan	325°F (165°C)	20 – 25 minutes
Biscuits	12" x 15" Cookie Sheet	425°F (220°C) or Package Directions	10 – 15 minutes
Quick Bread	8" x 4" Loaf Pan	350°F (180°C)	55 – 70 minutes
Muffins	12-cup Muffin Pan	425°F (220°C)	14 – 19 minutes
Fruit Pies	9" Diameter	425°F (220°C)	35 – 45 minutes
Fruit Cobblers	9" x 9" Pan	400°F (205°C)	25 – 30 minutes
Yeast Bread, Loaves	8" x 4" Loaf Pan	350°F (180°C)	25 – 30 minutes
Dinner Rolls	9" x 13" Pan	375°F (190°C)	12 – 18 minutes
Cinnamon Rolls	9" x 13" Pan	375°F (190°C)	25 – 30 minutes
Yeast Coffee Cake	12" x 15" Cookie Sheet	375°F (190°C)	20 – 30 minutes

## Broil/Convection Broil

### Tips for Broil

#### Preheating the Broiler

It is recommended that you preheat the broil element before starting to cook. Preheat until the "PREHEATING" light turns off.

#### Getting the Best Results

- Defrost food before broiling.
- Door is to be closed during broiling.
- Steaks should be more than 1" (25.4mm) thick if rare meat is desired. Use convection broil if steaks are over 1½" (38mm) thick. Convection broil available in large oven.
- Turn foods over only once, after half the total cooking time. It is not necessary to turn very thin foods (ham slices, fillets of fish, etc.). Liver slices must be turned over regardless of thickness.
- Use a minute timer. Set it for the minimum time to check the food.
- Center foods directly under the broiling element for best browning.

#### Rack Positions

Before turning on the oven, place the rack in the desired position. After preheating the broiler, center the broil pan under the broil element.

- #5 — Use this rack position when broiling beef steaks, ground meat patties, ham steak and lamb chops 1" (26mm) or less in thickness. Also, use when top browning foods.
- #4 — Use this rack position when broiling meat 1½" (29mm) or more in thickness, fish, poultry, pork chops, ham steaks 1" (26mm) or more in thickness.
- #3 — Use this rack when broiling chicken quarters or halves.

#### Utensils

- The porcelain enamel two-piece broil pan is included with the range. **DO NOT** cover the slotted grid (top) with aluminum foil.
- Use metal or glass-ceramic bakeware when top browning casseroles, main dishes, or bread.
- DO NOT use heat-proof glass or pottery. This type of glassware cannot withstand the intense heat of the broil element.

### Broiling Using a Regular Meat Thermometer

For accurately determining the degree of doneness for a thick steak or chop at least 1½" (38mm) thick, use a regular meat thermometer. Insert the point of the thermometer into the side of the meat to the center of the steak or chop.

For rare steaks, cook the first side to 90°F (32°C). For medium or well done steaks, cook the first side to 100°F (38°C). Turn and cook the second side to desired internal temperature.

### Secondary Oven (48")

Foods may be broiled on racks #3, 4 or 5 depending upon the type and thickness of the food. Rack #5 may be used for top browning of foods.

#### NOTE:

It is impossible to use the bake and broiler elements simultaneously. When one is on, the other one cannot be turned on.

### Setting Broil or Convection Broil

Only the upper element heats in the **BROIL** mode.

#### NOTE:

Successful broiling requires constant exposure to high, intense heat.

### To Set the Oven to Broil or Convection Broil

1. Place oven rack in desired position.
2. Set Mode Selector Knob to **BROIL** or **CONVECTION BROIL**.
3. Set Temperature Selector Knob to **BROIL**.
4. Wait until **PREHEATING** light turns off, after approximately three (3) minutes.
5. Place food in oven at desired rack position as referenced on *page 30*.
6. The door should be closed throughout the broil cycle.
  - Your range comes with a large two-piece broiler pan. The slotted grid allows drippings to flow into the lower pan, away from the intense heat of the broil element, minimizing spattering and smoking.
  - The 48" models have a small two-piece broiler pan, for use in the secondary oven.

The **OVEN ON** light stays on during any **BROIL** mode, and remains on until either of the oven temperature knobs is turned to the **OFF** position.

#### Automatic operation of the cooling blower:

For either **BROIL** mode, the cooling blower activates only after the oven reaches 300°F (149°C), while heating up to the broiling temperature. When the broiler is turned off, the blower remains on until the oven temperature cools to 200°F (93°C).

**DO NOT** continue to use the broiler if the cooling blower fails to activate while broiling. Call a qualified service agency to repair the range.

#### NOTE:

The interior oven light is operated by a separate switch that turns the light on and off, independent of any control setting.



# Broiling and Roasting Recommendations

All meats are placed on the broiler pan included with the range.

FOOD ITEM	RACK NUMBER	OVEN MODE	CONTROL TEMPERATURE SETTING	APPROXIMATE COOKING TIME	SPECIAL INSTRUCTIONS AND TIPS
<b>BEEF</b> Ground Beef Patties, 1/2" (12.7 mm) thick	5	Broil or Conv Broil	Broil or Conv Broil	15 – 20 minutes	Broil until no pink in center
T-Bone Steak	4	Broil or Conv Broil	Broil or Conv Broil	12 – 20 minutes	Time depends on rareness of steak
Flank Steak	4	Broil or Conv Broil	Broil or Conv Broil	12 – 20 minutes	Rare to medium rare
Rib Roast	3	Roast or Conv Roast	425°F (220°C) to start 325°F (165°C) to finish	20 – 25 min/lb	Small roasts take more minutes per pound; reduce time by using Convection Roast
<b>PORK</b> Loin Roast	3	Roast or Conv Roast	325°F (165°C)	20 – 25 min/lb	Cook until juices are clear
<b>POULTRY</b> Boneless, Skinless Chicken Breasts	4	Broil or Conv Broil	Broil or Conv Broil	20 – 25 minutes	Cook until juices are clear
Chicken Thighs	3	Broil or Conv Broil	Broil or Conv Broil	25 – 30 minutes	Remove skin; Cook until juices are clear
Half Chickens	3	Broil or Conv Broil	Broil or Conv Broil	30 – 45 minutes	Turn with tongs; Cook until juices are clear
Roast Chicken	2	Roast or Conv Roast	375°F (190°C)	75 – 90 minutes	Do not stuff; reduce time by using Convection Roast
Turkey	2	Roast or Conv Roast	325°F (165°C)	20 – 25 min/lb	Reduce time by using Convection Roast

# Care and Maintenance

## Self-Cleaning the Oven



### WARNING:

- Children should not be left alone or unattended in an area where appliances are in use.
- During the Self-Clean cycle, exterior surfaces may become hotter than usual. Parts of the appliance may become potentially harmful to children, and to persons who lack adult knowledge of appliances and lack adult reactions to potentially harmful conditions. Keep these individuals away during self-clean and while the appliance is in use.
- The elimination of soil during self-cleaning may facilitate the emission of small amounts of chemicals or other substances that may be harmful upon sufficient exposure. To minimize exposure to these substances, provide good ventilation with an open window, or use a ventilation fan or hood.
- Keep pet birds out of the kitchen or other rooms where kitchen fumes could reach them. During self-clean, fumes are released that may be harmful to birds.

## Electric Oven

The self-cleaning mode of your new range features pyrolytic self-cleaning. When set to the CLEAN mode, the oven reaches a high temperature, approximately 830°F (443°C), that burns off the food soil.

When the oven is set for CLEAN, the cooktop burners may be used. The griddle cannot be used when the oven is set for CLEAN.

**It is common to see smoke and/or flames during the clean cycle**, depending on the content and amount of soil remaining in the oven. If a flame persists, turn off the oven and allow it to cool before opening the door to wipe up the excessive food soil.

At the end of the CLEAN cycle, some gray ash or burned residue may remain inside the oven. This is a mineral deposit that does not burn or melt. The amount of ash depends on how heavily soiled the oven was before it was cleaned. It is easily removed, when the oven is cold, using a damp paper towel, sponge, or cloth.

Wipe off any smoke residue that remains on the front frame with Formula 409® or Fantastik®. If stain remains, use a mild liquid cleanser. The amount of smoke stain is directly related to the amount of food soil left in the oven at the time of self-cleaning. Clean the oven often.

## Before Self Cleaning the Oven

Wipe out puddles of grease and any loose soil that can be easily removed. Remove any soil that is outside the door seal area. This appliance is designed to clean the oven interior and that portion of the door that is inside the oven. The outer edges of the door and the oven cavity are not in the cleaning zone. Wipe this area clean **BEFORE SETTING THE OVEN TO SELF-CLEAN.**

- **Remove all utensils.**
- **Remove racks.**
- **Clean the oven front frame and outer door edges. Wipe up large spillovers and grease.**
- **Be sure the light bulbs and glass covers are in place.**
- **Turn on the ventilator hood above the range and leave it on until the oven has completed the self-clean cycle.**

## IMPORTANT:

For the first Self-Cleaning cycle, remove small animals and birds from the kitchen and surrounding areas. Open a nearby window for additional ventilation.

If another clean cycle is initiated at the end of a clean cycle and the temperature of the oven is still above 500°F (260°C), the LED will start blinking to indicate the range has not completely cooled down after the first cycle. The oven cannot be used until the oven temperature drops below 500°F and the door is unlocked.

## Lock

When the CLEAN cycle starts, the automatic door lock cycle begins. Check the door to confirm that it is locked. You can stop the clean cycle by selecting the OFF position. The CLEANING light will turn off only after the oven has cooled below 500°F (260°C) and the automatic door lock has completed its cycle to the open position.

**Make certain that the oven door is locked at the beginning of the self-cleaning cycle.**

## To Set Self-Clean

1. Select SPEED CLEAN using the Mode Selector Knob.
2. Set Temperature Selector Knob to CLEAN.
  - Cooling Blower turns on.
  - OVEN ON, PREHEATING and CLEANING lights turn on.



- When the oven reaches maximum self-clean temperature, the PREHEATING light turns off.

### NOTE:

The door closing process takes approximately 20 seconds to complete, at which time the door becomes locked.

**Check to make certain the door is locked.**

## At the End of the Clean Cycle

The Clean cycle takes 2 hours to complete. The OVEN ON light and the CLEANING light turn off when the cycle is finished. Do not turn either of the oven temperature knobs to the OFF position until the automatic lock cycles to the open position.

1. Select OFF using the Mode Selector Knob.
  - The door latch will open automatically when the oven is below 500°F (260°C) and the automatic Door Lock completes its 60 second cycle to the open position.
  - The cooling blower turns off when the oven temperature drops to 200°F (93°C).
2. Turn the oven temperature knob to OFF position.

## Cleaning Tips

- The porcelain enamel finish is acid resistant, but not acid proof. Acidic foods, such as citrus juices, tomatoes, rhubarb, vinegar, alcohol or milk, should be wiped up and not allowed to bake onto the porcelain during the next use.
- **Remove the oven racks.** See Racks, on Range Cleaning Recommendations, *page 33*.

- **The heating elements in the oven do not require cleaning;** the elements burn themselves clean when the oven is in use. Both elements are permanently connected. It is not necessary to clean the broiler shield above the broil element.



### CAUTION:

The interior of the oven will still be at baking temperatures when the automatic lock cycles to its open position and the oven door can be opened.

## Range Cleaning

### When Cleaning This Range:

- Use the mildest cleaning procedure that will do the job efficiently and effectively. Some cleaners of the same type are harsher than others. Try on a small area first.
- Always rub metal finishes in the direction of the polish lines for maximum effectiveness and to avoid marring the surface.
- Use only clean soft cloths, sponges, paper towels, fibrous brushes, plastic, non-metal or steel wool soap pads for cleaning and scouring, as recommended on the chart.
- Any part of this appliance can be cleaned with hot sudsy water. When rinsing is required, rinse thoroughly
- Always wipe dry immediately to avoid water marks.



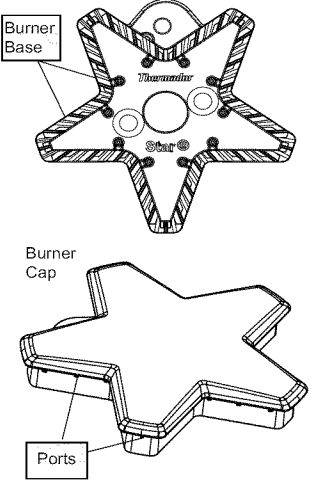
### CAUTION:

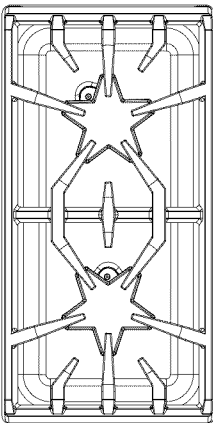
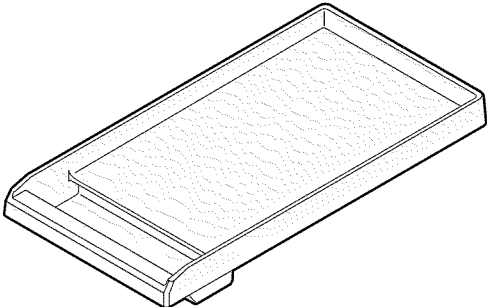
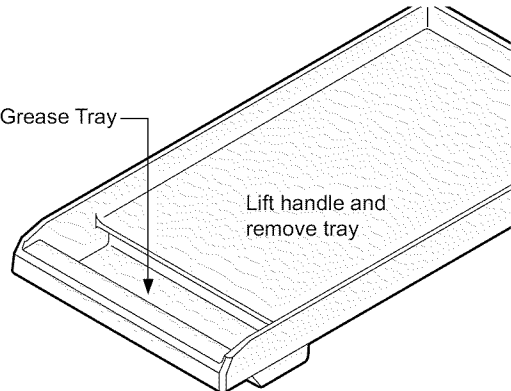
Avoid cleaning any part of the range while it is hot.

## Brand Names

The use of brand names is intended only to indicate a type of cleaner. This does not constitute an endorsement. The omission of any brand name cleaner does not imply its adequacy or inadequacy. Many products are regional in distribution and can be found in the local markets. It is imperative that all products be used in strict accordance with instructions on the package. The following chart gives directions for cleaning this range.

# Cleaning Recommendations

PART/MATERIAL	SUGGESTED CLEANERS	IMPORTANT REMINDERS
<p><b>Brass Burner Base and Cast Iron Cap</b></p> 	<ul style="list-style-type: none"> <li>• Hot sudsy water; rinse and dry thoroughly.</li> <li>• Mild Abrasive Cleaners: Bon Ami<sup>®</sup>, Cameo<sup>®</sup> Aluminum and Stainless Steel Cleaner, Wright's<sup>®</sup> All Purpose Brass Polish.</li> <li>• Liquid cleaners: Kleen King<sup>®</sup>.</li> <li>• Stiff nylon bristle tooth brush to clean port openings.</li> <li>• After cleaning, make sure that the burner cap is correctly seated on the burner base.</li> </ul>	<ul style="list-style-type: none"> <li>• Do not scratch or gouge the port features of the brass burner base.</li> </ul>
<p><b>Control Knobs / Metal Bezels / Chrome</b></p>	<ul style="list-style-type: none"> <li>• Hot sudsy water; rinse and dry immediately.</li> </ul>	<ul style="list-style-type: none"> <li>• Do not soak knobs.</li> <li>• Do not force knobs onto wrong valve shaft.</li> </ul>
<p><b>Exterior Finish/Back Guard / Stainless Steel</b></p>	<ul style="list-style-type: none"> <li>• Nonabrasive Cleaners: Hot water and detergent, ammonia, Fantastic<sup>®</sup>, Formula 409<sup>®</sup>. Rinse and dry immediately.</li> <li>• Cleaner Polish: Stainless Steel Magic<sup>®</sup> to protect the finish from staining and pitting; enhances appearance.</li> <li>• Hard water spots: Household vinegar.</li> <li>• Mild Abrasive Cleaners: Siege Stainless Steel and Aluminum Cleaner, Kleen King<sup>®</sup> Stainless Steel liquid cleaner.</li> <li>• Heat discoloration: Cameo<sup>®</sup>, Barkeepers Friend<sup>®</sup>, Zud<sup>®</sup>, Wright's<sup>®</sup> All Purpose Brass Polish.</li> </ul>	<ul style="list-style-type: none"> <li>• Stainless steel resists most food stains and pit marks providing the surface is kept clean and protected.</li> <li>• Never allow food stains or salt to remain on stainless steel for any length of time.</li> <li>• Rub lightly in the direction of polish lines.</li> <li>• Chlorine or chlorine compounds in some cleaners are corrosive to stainless steel. Check ingredients on label.</li> </ul>

PART/MATERIAL	SUGGESTED CLEANERS	IMPORTANT REMINDERS
<p><b>Grates / Porcelain Enamel on Cast Iron</b></p> 	<ul style="list-style-type: none"> <li>• Nonabrasive cleaners: Hot water and detergent, Fantastic<sup>®</sup>, Formula 409<sup>®</sup>. Rinse and dry immediately.</li> <li>• Mild abrasive cleaners: Bon Ami<sup>®</sup> and Soft Scrub<sup>®</sup>.</li> <li>• Abrasive cleaners for stubborn stains: soap-filled steel wool pad.</li> <li>• Lestoil<sup>®</sup> or other degreaser.</li> </ul>	<ul style="list-style-type: none"> <li>• The grates are heavy; use care when lifting. Place on a protected surface.</li> <li>• Blisters/ crazing/ chips are common due to the extreme temperatures on grate fingers and rapid temperature changes.</li> <li>• Acidic and sugar-laden spills deteriorate the enamel. Remove soil immediately.</li> <li>• Abrasive cleaners, used too vigorously or too often can eventually mar the enamel.</li> </ul>
<p><b>Griddle Grease Tray / Aluminum with non-stick coating</b></p> 	<ul style="list-style-type: none"> <li>• Clean the grease tray after each use.</li> <li>• May be placed in dishwasher.</li> <li>• Wash in detergent and hot water; rinse and dry.</li> <li>• Stubborn soil: Soft Scrub<sup>®</sup></li> </ul>	<ul style="list-style-type: none"> <li>• Empty grease tray after each use.</li> <li>• Remove tray after grease has cooled. Be careful not to fill tray so full that tipping to remove it spills the grease.</li> </ul>
<p><b>Griddle / Aluminum with non-stick coating</b></p> 	<ul style="list-style-type: none"> <li>• Remove drip tray and discard grease into a grease resistant container for disposal. Wash drip tray in warm soapy water or place in dishwasher. Wipe griddle surface with warm soapy water then rinse with warm water. Wipe dry with a soft cloth.</li> <li>• If food particles stick to the grill or griddle plate, remove with a mild abrasive cleaner such as Soft Scrub<sup>®</sup>.</li> </ul>	<ul style="list-style-type: none"> <li>• Never flood a hot griddle with cold water. This can warp or crack the aluminum plate.</li> <li>• Do not clean any part of the griddle in a self-cleaning oven.</li> </ul>
<p><b>Igniters / Ceramic</b></p>	<ul style="list-style-type: none"> <li>• Use a cotton swab dampened with water, Formula 409<sup>®</sup> or Fantastic<sup>®</sup>.</li> </ul>	<ul style="list-style-type: none"> <li>• Do not use sharp tools to scrape igniters. They are fragile. If an igniter is damaged, it may not light the burner.</li> </ul>

PART/MATERIAL	SUGGESTED CLEANERS	IMPORTANT REMINDERS
<p><b>Surface Spill Trays / Main Top</b> Porcelain Enamel</p>	<p>A cleaner such as Soft Scrub® may be used. Apply with a damp sponge or cloth according to the manufacturer's instructions. Rinse thoroughly and wipe dry with a soft cloth.</p> <p>If cleaners such as Bar Keeper's Friend®, Bon-ami®, Comet® or Ajax® are used, apply with a damp sponge or cloth according to the manufacturer's directions. Rub lightly as these cleansers may scratch the finish. Rinse thoroughly and wipe dry with a soft cloth.</p> <p>For burned on foods, soap filled fiber or steel wool pads such as S.O.S.® or Brillo® may be used. Dampen the pad and rub gently. Care must be taken as these may scratch the finish. Rinse thoroughly and wipe dry with a soft cloth.</p>	
<p><b>Broil Pan Grid/Bottom</b> Porcelain Enamel</p>	<p><b>DO NOT CLEAN IN SELF-CLEANING OVEN</b></p> <p>To loosen cooked on food, sprinkle empty hot grid with powdered laundry detergent or squirt with liquid detergent and cover with wetpaper towels. Allow to stand.</p> <p><b>Hot sudsy water.</b></p> <ul style="list-style-type: none"> <li>Wash, rinse thoroughly and dry.</li> </ul> <p><b>Cleaners:</b> Soft Scrub®.</p> <ul style="list-style-type: none"> <li>Apply with a damp sponge or cloth according to manufacturer's directions. Rinse and wipe dry.</li> </ul> <p><b>Powdered Cleanser:</b> Bon-ami®, Comet®, Ajax®.</p> <ul style="list-style-type: none"> <li>Apply with a damp sponge or cloth according to manufacturer's directions. (Rub lightly, it may scratch the finish!) Rinse thoroughly and wipe dry.</li> </ul> <p><b>Soap-filled fiber or steel wool pads:</b> S.O.S.®, Brillo®.</p> <ul style="list-style-type: none"> <li>Dampen pad, rub lightly, it may scratch the finish. Rinse thoroughly and wipe dry.</li> </ul>	

# Do-It-Yourself Maintenance

## Oven Light Bulb Replacement



### CAUTION:

- Make sure the appliance and lights are cool and power to the appliance has been turned off before replacing the light bulb(s). Failure to do so could result in electrical shock or burns.
- The covers must be in place when using the appliance.
- The covers serve to protect the light bulb from breaking.
- The covers are made of glass. Handle carefully to avoid breaking. Broken glass could cause an injury.
- The light socket is live when the door is open.

Replace only with a recommended light bulb designed for appliance oven use. **DO NOT** use a standard household light bulb in any oven. Call THERMADOR® Customer Care Center at 1-800-735-4328 or your nearest THERMADOR dealer to determine the proper replacement bulb for your range. You will need to know your range's model number and serial number.

### To Replace the Light Bulb:

Use only 10 Watt, 12 Volt bi-pin halogen light bulbs. Use a clean, dry cloth to handle halogen light bulbs. This will increase the life of the bulb.

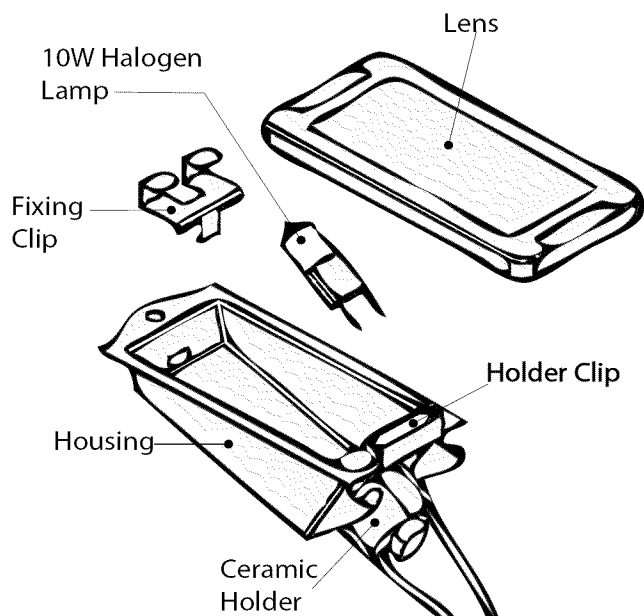
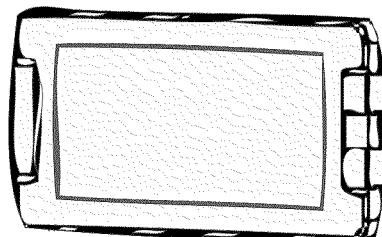


Figure 32: Oven Lamp Assembly

1. Turn off power to the appliance at the main power supply (breaker box) or unplug the power cord.
2. Remove oven racks.
3. Slide the tip of a flat blade screw driver between the fixing clip and the lamp housing (*Figure 32 and 33.*)



Slide screwdriver tip here. Loosen glass lens and remove.

Figure 33: Opening Location

4. Support the glass lens cover with two fingers along the bottom edge to prevent the cover from falling to the bottom of the oven.
5. Gently twist the flat blade screw driver to loosen the glass lens cover.
6. Remove the glass lens cover and fixing clip.
7. Remove the bulb by grasping and sliding the bulb straight back until the two prongs have cleared the ceramic holder.
8. Do not touch the glass of the new replacement bulb with your fingers. It will cause the bulb to fail when it first lights. Grasp the replacement bulb with a clean dry cloth. Locate the two prongs in the ceramic holder, gently poking until the two prongs locate in the ceramic socket.
9. Press down to seat the bulb.
10. Slide the protective lens into the holder clip and push the other end until the fixing clip snaps back into the housing.
11. Turn on power to the appliance at the main power supply (breaker box) or plug in the power cord.

## Power Failure

In the event of a power failure, only the standard STAR<sup>®</sup> burners can be lit manually. It is necessary to light each standard burner individually (see also *page 15*).

If the range's cooktop is being used when the power failure occurs, turn all of the burner control knobs to the OFF position. The standard burners can be lit by holding a match at the ports and turning the control knob to the HI position. Wait until the flame is burning all the way around the burner cap before adjusting the flame to the desired height.

The two ExtraLow<sup>®</sup> burners on the left sides cannot be used during a power failure. Be sure to turn them OFF if a power failure occurs because they will not turn back on until the control knobs are turned OFF and then turned back on again.

If you have low gas pressure, contact your gas company.

## Intermittent or Constant Igniter Sparking

Intermittent or constant sparking of the sealed gas surface burners can result from a number of preventable conditions. Eliminate these conditions as indicated in the following chart.

SYMPTOM	CAUSE	REMEDY
Intermittent sparking	<ul style="list-style-type: none"> <li>• Ceramic igniter is wet or dirty.</li> <li>• STAR burner ports are clogged.</li> </ul>	<ul style="list-style-type: none"> <li>• Carefully dry or clean igniter.</li> <li>• Clean ports on STAR burner cap with a wire, a needle or straightened paper clip.</li> </ul>
More than four clicks of igniter before lighting	<ul style="list-style-type: none"> <li>• Improper fit of STAR burner cap onto STAR burner base.</li> </ul>	<ul style="list-style-type: none"> <li>• Align STAR burner cap properly on STAR burner base.</li> </ul>
Constant Sparking	<ul style="list-style-type: none"> <li>• Range is not properly grounded.</li> <li>• Electrical power supply is incorrectly polarized.</li> </ul>	<ul style="list-style-type: none"> <li>• Refer to the <i>Installation Manual</i>. Have a qualified electrician ground the range properly.</li> <li>• Refer to the <i>Installation Manual</i>. Have a qualified electrician ground the range properly.</li> </ul>



# Before Calling for Service

Before calling for service, check the following to avoid unnecessary service charges.

Be sure to check these items first:

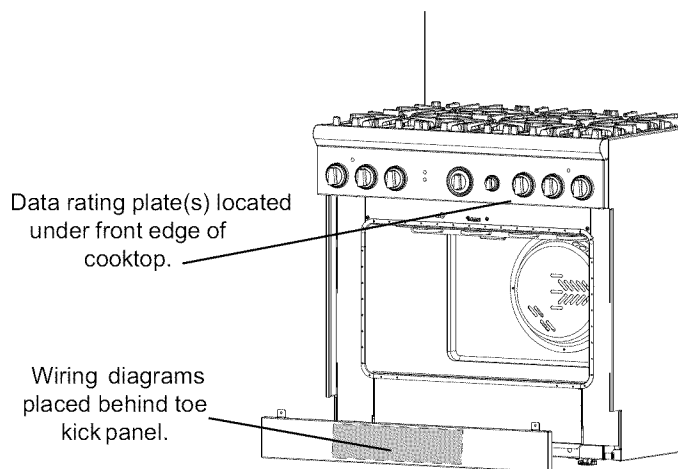
- Is there a power outage in the area?
- Is the household circuit breaker tripped?
- Is the range disconnected from the electrical supply?

## If the Burners do not Ignite

- Are the burner caps properly aligned and seated in the burner bases?
- Are the burner ports clogged?
- Is the circuit breaker tripped?
- Is the manual shut-off valve closed, preventing the flow of gas?

## Data Rating Plate

The data rating plate shows the model and serial number of your range. It is located under the front edge of the range's cooktop, and is visible when the oven door is open (see illustration).



**Figure 34: Rating Plate and Wiring Diagram Locations (oven door not shown)**

The electric wiring diagrams and schematics in the toe kick area should not be removed except by a service technician. Replace after service.



## CAUTION:

Before removing the toe kick panel, disconnect the range from the electrical power supply. Reinstall the toe kick panel before reconnecting the range to the power supply and operating the range.

## Service Information

For handy reference, copy the information below from the data rating plate. Keep your invoice for Warranty validation.

Model Number \_\_\_\_\_

Serial Number \_\_\_\_\_

Date of Purchase \_\_\_\_\_

Dealer's Name \_\_\_\_\_

Dealer's Phone Number \_\_\_\_\_

Service Center's Name \_\_\_\_\_

Service Center's Phone Number \_\_\_\_\_

Also, enter this information on the Product Registration Form included with this product, then mail it to the indicated address.

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# Statement Of Limited Product Warranty

## What this Warranty Covers & Who it Applies to

The limited warranty provided by BSH Home Appliances Corporation (BSH) in this Statement of Limited Product Warranty applies only to the THERMADOR® appliance sold to you, the first using purchaser, provided that the Product was purchased:

- For your normal, household (non-commercial) use, and has in fact at all times only been used for normal household purposes.
- New at retail (not a display, "as is", or previously returned model), and not for resale, or commercial use.
- Within the United States or Canada, and has at all times remained within the country of original purchase.

The warranties stated herein apply only to the first purchaser of the Product and are not transferable.

Please make sure to return your registration card; while not necessary to effectuate warranty coverage, it is the best way for BSH to notify you in the unlikely event of a safety notice or product recall.

## How Long the Warranty Lasts

BSH warrants that the Product is free from defects in materials and workmanship for a period of seven-hundred and thirty (730) days from the date of purchase. The foregoing timeline begins to run upon the date of purchase, and shall not be stalled, tolled, extended, or suspended, for any reason whatsoever.

## Repair/Replace as Your Exclusive Remedy

During this warranty period, BSH or one of its authorized service providers will repair your Product without charge to you (subject to certain limitations stated herein) if your Product proves to have been manufactured with a defect in materials or workmanship. If reasonable attempts to repair the Product have been made without success, then BSH will replace your Product (upgraded models may be available to you, in the sole discretion of BSH, for an additional charge). All removed parts and components shall become the property of BSH at its sole option. All replaced and/or repaired parts shall assume the identity of the original part for purposes of this warranty and this warranty shall not be extended with respect to such parts. BSH's sole liability and responsibility hereunder is to repair manufacturer-defective Product only, using a BSH-authorized service provider during normal business hours. For safety and property damage concerns, BSH highly recommends that you do not attempt to repair the Product yourself, or use an un-authorized servicer; BSH will have

no responsibility or liability for repairs or work performed by a non-authorized servicer. If you choose to have someone other than an authorized service provider work on your Product, **THIS WARRANTY WILL AUTOMATICALLY BECOME NULL AND VOID.** Authorized service providers are those persons or companies that have been specially trained on BSH products, and who possess, in BSH's opinion, a superior reputation for customer service and technical ability (note that they are independent entities and are not agents, partners, affiliates or representatives of BSH). Notwithstanding the foregoing, BSH will not incur any liability, or have responsibility, for the Product if it is located in a remote area (more than 100 miles from an authorized service provider) or is reasonably inaccessible, hazardous, threatening, or treacherous locale, surroundings, or environment; in any such event, if you request, BSH would still pay for labor and parts and ship the parts to the nearest authorized service provider, but you would still be fully liable and responsible for any travel time or other special charges by the service company, assuming they agree to make the service call.

## Out of Warranty Product

BSH is under no obligation, at law or otherwise, to provide you with any concessions, including repairs, pro-rates, or Product replacement, once this warranty has expired.

## Warranty Exclusions

The warranty coverage described herein excludes all defects or damage that are not the direct fault of BSH, including without limitation, one or more of the following:

- Use of the Product in anything other than its normal, customary and intended manner (including without limitation, any form of commercial use, use or storage of an indoor product outdoors, use of the Product in conjunction with air or water-going vessels).
- Any party's willful misconduct, negligence, misuse, abuse, accidents, neglect, improper operation, failure to maintain, improper or negligent installation, tampering, failure to follow operating instructions, mishandling, unauthorized service (including self-performed "fixing" or exploration of the appliance's internal workings).
- Adjustment, alteration or modification of any kind.
- A failure to comply with any applicable state, local, city, or county electrical, plumbing and/or building codes, regulations, or laws, including failure to install the product in strict conformity with local fire and building codes and regulations.
- Ordinary wear and tear, spills of food, liquid, grease accumulations, or other substances that accumulate on, in, or around the Product.
- Any external, elemental and/or environmental forces and factors, including without limitation, rain, wind, sand, floods, fires, mud slides, freezing temperatures, excessive moisture or extended exposure to humidity, lightning, power surges, structural failures surrounding the appliance, and acts of God.

In no event shall BSH have any liability or responsibility whatsoever for damage to surrounding property, including cabinetry, floors, ceilings, and other structures or objects around the Product. Also excluded from this warranty are scratches, nicks, minor dents, and cosmetic damages on external surfaces and exposed parts; Products on which the serial numbers have been altered, defaced, or removed; service visits to teach you how to use the Product, or visits where there is nothing wrong with the Product; correction of installation problems (you are solely responsible for any structure and setting for the Product, including all electrical, plumbing or other connecting facilities, for proper foundation/flooring, and for any alterations including without limitation cabinetry, walls, floors, shelving, etc.); and resetting of breakers or fuses.

**TO THE EXTENT ALLOWED BY LAW, THIS WARRANTY SETS OUT YOUR EXCLUSIVE REMEDIES WITH RESPECT TO PRODUCT, WHETHER THE CLAIM ARISES IN CONTRACT OR TORT (INCLUDING STRICT LIABILITY, OR NEGLIGENCE) OR OTHERWISE. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED. ANY WARRANTY IMPLIED BY LAW, WHETHER FOR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE, SHALL BE EFFECTIVE ONLY FOR THE PERIOD THAT THIS EXPRESS LIMITED WARRANTY IS EFFECTIVE. IN NO EVENT WILL THE MANUFACTURER BE LIABLE FOR CONSEQUENTIAL, SPECIAL, INCIDENTAL, INDIRECT, "BUSINESS LOSS", AND/OR PUNITIVE DAMAGES, LOSSES, OR EXPENSES, INCLUDING WITHOUT LIMITATION TIME AWAY FROM WORK, HOTELS AND/OR RESTAURANT MEALS, REMODELLING EXPENSES IN EXCESS OF DIRECT DAMAGES WHICH ARE DEFINITELY CAUSED EXCLUSIVELY BY BSH, OR OTHERWISE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, AND SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.**

No attempt to alter, modify or amend this warranty shall be effective unless authorized in writing by an officer of BSH.

**We reserve the right to make changes in the product or this manual without notification.**

Register your BSH product to ensure timely service and access to your product related information. You may register your product through one of the following ways:

1. Mail in the completed THERMADOR® product registration card.
2. Register your product online at [www.thermador.com](http://www.thermador.com).
3. Call us at THERMADOR customer service at 1-800-735-4328.



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# THERMADOR® Support

## Service

We realize that you have made a considerable investment in your kitchen. We are dedicated to supporting you and your appliance so that you have many years of creative cooking.

Please don't hesitate to contact our STAR® Customer Support Department if you have any questions or in the unlikely event that your THERMADOR appliance needs service. Our service team is ready to assist you.

**USA:**  
**800-735-4328**  
**[www.thermador.com/support](http://www.thermador.com/support)**

**Canada:**  
**800-735-4328**  
**[www.thermador.ca](http://www.thermador.ca)**

## Parts & Accessories

Parts, filters, descalers, stainless steel cleaners and more can be purchased in the THERMADOR eShop or by phone.

**USA:**  
**[www.thermador-eshop.com](http://www.thermador-eshop.com)**

**Canada contact:**

**AP Wagner 800-268-7513**  
**or**  
**Reliable Parts 800-663-6060**

***Thermador*** ™

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