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LG LRE30451ST Owner's Manual

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ELECTRIC RANGE

OWNER'S MANUAL & COOKING GUIDE

LRE30451SW/SB/ST

PLEASE READ THIS OWNER'S MANUAL THOROUGHLY BEFORE OPERATING.



Thank you for purchasing an LG electric oven.

Please record the model number and serial number of this unit for future reference. We also suggest that you record the details of any contact with LG (LG Electronics USA, Inc.) concerning this unit.

Model No.: _____

Serial No.: _____

Dealer: _____

Dealer Phone No.: _____

Staple your receipt here to verify your retail purchase.

Customer Relations
 LG Electronics U.S.A., Inc.
 Service Division Bldg. #3
 201 James Record Rd.
 Huntsville, AL 35824-0126

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SAFETY

IMPORTANT SAFETY INSTRUCTIONS

Read and follow all instructions before using your oven to prevent the risk of fire, electric shock, personal injury, or damage when using the range. This guide do not cover all possible conditions that may occur. Always contact your service agent or manufacturer about problems that you do not understand.



WARNING

This symbol will alert you to hazards or unsafe practices which could cause serious bodily harm or death.



CAUTION

This symbol will alert you to hazards or unsafe practices which could cause bodily injury or property damage.

- Be sure your appliance is properly installed and grounded by a qualified technician.
- Do not repair or replace any part of the appliance unless specifically recommended in the manual. All other servicing should be referred to a qualified technician.
- Always disconnect power to appliance before servicing by removing the fuse or switching off the circuit breaker



WARNING

- ALL RANGES CAN TIP AND CAUSE INJURIES TO PERSONS
- INSTALL ANTI-TIP DEVICE PACKED WITH RANGE
- FOLLOW ALL INSTALLATION INSTRUCTIONS

To reduce the risk of tipping of the range, the range must be secured by properly installed anti-tip devices. To check if the bracket is installed properly,

- **Warming drawer** : grasp the top rear edge of the Range and carefully attempt to tilt it forward. Verify that the anti-tip devices are engaged.
- **Storage drawer** : Remove drawer and verify the leveling leg is inserted into and fully secured by the anti-tip devices.

Refer to the installation manual for proper anti-tip bracket installation.

- Do not step, lean, or sit on the doors of the range. These can cause the range to tip, resulting in burns or serious injuries.



CAUTION

Do not store items of interest to children in cabinets above a range or on the back guard of a range. Children climbing on the range to reach items could be seriously injured.

- **Do Not Leave Children Alone.** Children should not be left alone or unattended in area where appliance is in use. They should never be allowed to sit or stand on any part of the appliance.
- **Never Use Your Appliance for Warming or Heating the Room.**
- **Storage in or on Appliance.** Flammable materials should not be stored in an oven or near surface units. Be sure all packing materials are removed from the appliance before operating it. Keep plastics, clothes, and paper away from parts of the appliance that may become hot.
- **Wear Proper Apparel.** Loose-fitting or hanging garments should never be worn while using the appliance.
- **Do Not Use Water on Grease Fires.** Turn off the oven to avoid spreading the flame. Smother the fire or flame by closing the door or use dry chemical, baking soda, or foam-type extinguisher.
- **Use Only Dry Potholders.** Moist or damp potholders on hot surfaces may result in burns from steam. Do not let the potholder touch hot heating elements. Do not use a towel or other bulky cloth.

SAFETY

IMPORTANT SAFETY INSTRUCTIONS

SURFACE COOKING UNITS

- **Use Proper Pan Sizes.** This appliance is equipped with one or more surface units of different size. Select utensils having flat bottoms large enough to cover the surface unit heating element.
The use of undersized utensils will expose a portion of the heating element to direct contact and may result in ignition of clothing. Proper relationship of utensil to burner will also improve efficiency.
- **Never Leave Surface Units Unattended at High Heat Settings.** Boilovers cause smoking and greasy spillovers that may ignite.
- **Glazed Cooking Utensils.** Only certain types of glass, glass/ceramic, ceramic, earthenware, or other glazed utensils are suitable for range-top service without breaking due to the sudden change in temperature.
- **Utensil Handles Should Be Turned Inward and Not Extend Over Adjacent Surface Units.** To reduce the risk of burns, ignition of flammable materials, and spillage due to unintentional contact with the utensil, the handle of a utensil should be positioned so that it is turned inward, and does not extend over adjacent surface units.
- Be sure you know which control pads operate each surface unit.
Make sure you turned on the correct surface unit.

OVEN

- **DO NOT TOUCH HEATING ELEMENTS OR INTERIOR SURFACES OF OVEN.** Heating elements may be hot even though they are dark in color. Interior surfaces of an oven become hot enough to cause burns. During and after use, do not touch or let clothing or other flammable materials contact heating elements or interior surfaces of oven until they have had sufficient time to cool. Other surfaces of the appliance may become hot enough to cause burns. Among these surfaces are oven vent openings and surfaces near these openings, oven doors, and windows of oven doors.
- **Use Care When Opening Door.** Let hot air or steam escape before you remove or replace food in the oven
- **Do Not Heat Unopened Food Containers.** Build-up of pressure may cause container to burst and result in injury.
- **Protective Liners.** Do not use aluminum foil or any other material to line the oven bottoms, except as suggested in the manual. Improper installation of these liners may result in a risk of electric shock or fire.
- **Keep Oven Vent Ducts Unobstructed.** The oven vent is located above the left rear surface unit. This area could become hot during oven use. Never block this vent and never place plastic or heat-sensitive items on vent
- **Placement of Oven Racks.** Always place oven racks in desired location while oven is cool. If rack must be moved while oven is hot, do not let potholder contact hot heating element in oven.
- **Do Not** allow aluminum foil or meat probe to contact heating elements.

SAFETY

IMPORTANT SAFETY INSTRUCTIONS

SELF-CLEANING OVENS

- **Do Not Clean Door Gasket.** The door gasket is essential for a good seal. Care should be taken not to rub, damage, or move the gasket.
- **Do Not Use Oven Cleaners.** No commercial oven cleaner or oven liner protective coating of any kind should be used in or around any part of the oven.
- **Clean in the self-clean cycle only parts listed in this manual.** Before self-clean the oven, remove the broiler pan and any utensils of foods from the oven.
- **Before Self-Cleaning the Oven.** Remove broiler pan and other utensils.
- **Never keep pet birds in the kitchen.** The health of birds is extremely sensitive to the fumes released during an oven self-clean cycle. Fumes may be harmful or fatal to birds. Move birds to well-ventilated room.
- **Important Instruction.** In the event the self-clean mode F code goes on, or three long beeps sound, oven is malfunctioning in the self-clean mode. Turn off or disconnect appliance from power supply and have serviced by a qualified technician.

VENTILATING HOODS:

- **Clean Ventilating Hoods Frequently.** Grease should not be allowed to accumulate on hood or filter.
- **When flaming foods under the hood, turn the fan on.**

GLASS/CERAMIC COOKING SURFACES

- **DO NOT TOUCH SURFACE UNITS OR AREAS NEAR UNITS.** Surface units may be hot even though they are dark in color. Areas near surface units may become hot enough to cause burns. During and after use, do not touch, or let clothing or other flammable materials contact surface units or areas near units until they have had sufficient time to cool. Among these areas are identification of areas – for example, the cooktop and surfaces facing the cooktop.
- **Do Not Cook on Broken CookTop.** If cooktop should break, cleaning solutions and spillovers may penetrate the broken cook-top and create a risk of electric shock. Contact a qualified technician immediately.
- **Clean CookTop With Caution.** If a wet sponge or cloth is used to wipe spills on a hot cooking area, be careful to avoid steam burn. Some cleaners can produce noxious fumes if applied to a hot surface.

DEEP FAT FRYERS:

- Use extreme caution when moving the grease kettle or disposing of hot grease.

SURFACE CONTROLS COOKING

CAUTION

BEFORE SURFACE COOK

- Do not use the glass cooktop surface as a cutting board.
- Do not place or store items that can melt or catch fire on the glass cooktop, even when it is not being used.
- Always turn the surface units on after placing cookware.
- Do not store heavy items above the cooktop surface that could fall and damage it.

DURING SURFACE COOK

- Do not place aluminum foil or plastic items such as salt and pepper shakers, spoon holders, or plastic wrappings or any other material on the range when it is in use. The hot air from the vent could melt plastics or ignite flammable items
- Make sure you turned on the correct surface unit.
- Never cook directly on the glass. Always use cookware.
- Always place the pan in the center of the surface unit you are cooking on.
- Never leave surface units unattended at high heat setting. Boilovers cause smoking and greasy spillovers that may catch on fire.
- Always turn the surface units off before removing cookware.
- Do not use plastic wrap to cover food. Plastic may melt onto the surface and be very difficult to remove.

AFTER SURFACE COOK

- Do not touch surface units until it has cooled down.
- The surface elements may still be hot and burns may occur if the glass surface is touched before it has cooled down sufficiently.
- Immediately clean the spills on cooking area to prevent a tough cleaning chore later.
- If cabinet storage is provided directly above cooking surface, limit it to items that are infrequently used and can be safely stored in an area subjected to heat. Temperatures may be unsafe for items such as volatile liquids, cleaners or aerosol sprays.

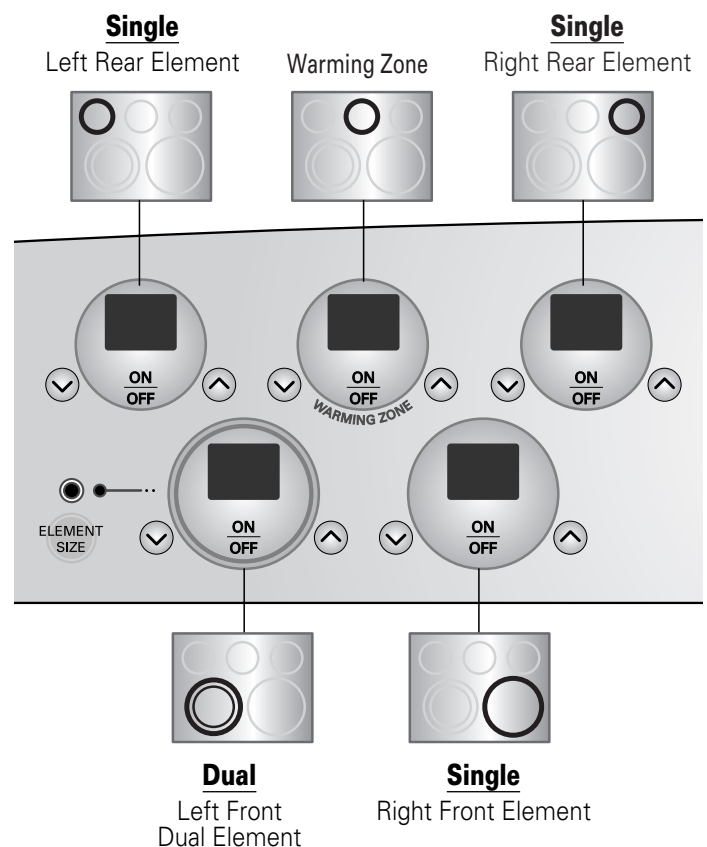
HS (Hot Surface) MESSAGE LIGHT WILL:

- Come on when the unit is hot to touch after it is turned off.
- Come on during Self Cleaning Cycle.
- Stay on even after the unit is turned off.
- Glow until the unit has cooled down to approximately 150°F.

LOCATIONS OF THE RADIANT SURFACE ELEMENTS AND CONTROLS

The radiant surface elements are located on the cooktop as below.

The radiant control key locations are correlative to radiant surface elements on the cooktop as shown below.



PF (Power Failure) MESSAGE

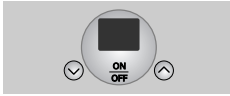
The PF message will appear whenever there has been a power interruption to the appliance. To clear the PF message press ON/OFF control pad to reset and be sure to reset the clock with the correct time of day.

SURFACE CONTROLS COOKING

SETTING SURFACE CONTROLS

When changing from a high heat setting to a lower heat setting, the surface unit may stop glowing. This is normal.

To turn on a single surface unit (Right Rear, Left Rear, Right Front)



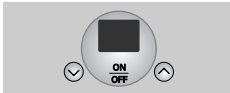
1. Press **ON/OFF** for the desired element position. The display will flash **--**.
(If no further pads are pressed within 10 seconds, the display will disappear.)



2. Press **Hi** or **Lo** once to turn on the power level **Hi** or **Lo**.



3. Use the **up/down** to choose the desired power setting. **up/down** is continuously accessible. (Adjustable at any time while the element is ON.)



4. To turn off the unit after cooking, press **ON/OFF** once.

- NOTE:**
- Each time a pad is pressed a beep will sound.
 - The power level decreases or increases by **0.5** from **9.0** through **3.0**. (by **0.2** from **3.0** through **1.0**)
 - **Lo** is the lowest power level available.

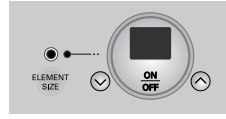
CAUTION

The surface elements may still be hot and burns may occur. Do not touch surface elements until it has cooled down sufficiently.

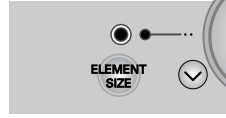
CAUTION

At high or medium-high setting, never leave food unattended. Boilovers cause smoking and greasy spillovers may catch on fire.

To turn on a dual surface unit (Left Front)



1. Press **ON/OFF**. The display will flash **--**.
(If no further pads are pressed within 10 seconds, the display will disappear.)



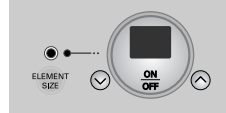
2. Press **ELEMENT SIZE** as needed to select the desired burner size. When first selected, 12" size is ON. The light above **ELEMENT SIZE** indicates which size surface unit is on.



3. Press **Hi** or **Lo** once to turn on the power level **Hi** or **Lo**.



4. Use the **up/down** to choose the desired power setting. **up/down** is continuously accessible. (Adjustable at any time while the element is ON.)



5. To turn off the unit after cooking, press **ON/OFF** once.

- NOTE:**
- Each time a pad is pressed a beep will sound.
 - The power level decreases or increases by **0.5** from **9.0** through **3.0**. (by **0.2** from **3.0** through **1.0**)
 - **Lo** is the lowest power level available.

CAUTION

The surface elements may still be hot and burns may occur. Do not touch surface elements until it has cooled down sufficiently.

Recommended Surface Cooking Settings

Recommended setting for the single & dual elements.

Setting	Type of cooking
HIGH (8.5 – Hi)	Start most foods, bring water to a boil or pan broiling.
MEDIUM HIGH (5.5 – 8.0)	Continue a rapid boil, fry, or deep fat fry.
MEDIUM (3.5 – 5.0)	Maintain a slow boil, thicken sauces and gravies, or steam vegetables.
MEDIUM LOW (2.2 – 3.0)	Keep foods cooking, poach, or stew (2.8 or lower is a simmer setting).
LOW/SIMMER (Lo – 2.0)	Keep warm, melt, or simmer.

SURFACE CONTROLS COOKING

OPERATING THE WARMING ZONE

To set the warming zone control



1. Press **ON/OFF** at the warming zone control position. The warming zone indicator light will flash. (If no further pads are pressed within 10 seconds the display will disappear.)



2. Press once to turn on the power level **Hi** or to turn on for **Lo**.



3. Use the / to choose the desired power setting. (Adjustable at any time while the element is ON.)



4. To turn off the unit when the food is ready to serve, press **ON/OFF** once.

- NOTE:**
- Each time a pad is pressed a beep will sound.
 - The controls for the warming zone allow for 5 different heat settings : **Lo~Hi**
 - “**HS**” will appear when the unit is hot to touch.

Suggested Settings

Setting	Type of cooking	
Lo	Breads/Pastries	Gravies
	Casseroles	Eggs
2 – 4	Dinner Plate with Food	Sauces
	Soups (Cream)	Stews
	Vegetables	Meats
Hi	Fried Foods	Hot Beverages
	Soups (Liquid)	

CAUTION

- Use only cookware and dishes recommended as safe for oven and cooktop use.
- Always use oven mitts when removing food from the warming center as cookware and plates will be hot.
- When warming pastries and breads the cover should have an opening to allow moisture to escape.
- Do not use plastic wrap to cover foods. Plastic may melt onto the surface and be very difficult to clean.
- Food should be kept in its container and covered with a lid or aluminum foil to maintain food quality.
- Do not warm food on the warming zone for more than 2 hours.
- Placing uncooked or cold food on the warming zone could result in foodborne illness.

TIPS TO PROTECT THE GLASS COOKTOP SURFACE

Cleaning

(see pages 27~28 for more information)

Before first use, clean the cooktop.

Clean your cooktop daily or after each use. This will keep your cooktop looking good and can prevent damage.

If a spillover occurs while cooking, immediately clean the spill from the cooking area while it is hot to prevent a tough cleaning chore later. Using extreme care, wipe spill with a clean dry towel.

Do not allow spills to remain on the cooking area or the cooktop trim for a long period of time.

Do not use abrasive cleansing powders or scouring pads which will scratch the cooktop.

Do not use chlorine bleach, ammonia, or other cleansers not specifically recommended for use on glass-ceramic.

To Prevent Marks and Scratches

Do not use glass pans. They may scratch the surface.

Do not place a trivet or wok ring between the surface and pan. These items can mark or scratch the top.

Do not slide aluminum pans across a hot surface. The pans may leave marks which need to be removed promptly.” (See Cleaning pages 27~28.)

Make sure the surface and the pan bottom are clean before turning on to prevent scratches.

To prevent scratching or damaging to the glass-ceramic top, do not leave sugar, salt, or fats on the cooking area. Wipe the cooktop surface with a clean cloth or paper towel before using.

Do not slide heavy metal pans across the surface since these may scratch.

To Prevent Stains

Do not use a soiled dish cloth or sponge to clean the cooktop surface. A film will remain which may cause stains on the cooking surface after the area is heated.

Continuously cooking on a soiled surface may/will result in a permanent stain.

To Prevent Other Damages

Do not allow plastic, sugar, or foods with high sugar content to melt onto the hot cooktop. Should this happen, clean immediately. (See Cleaning pages 27~28.)

Do not let a pan boil dry as this will damage the surface and pan.

Do not use cooktop as a work surface or cutting board.

Do not cook food directly on the surface.

SURFACE CONTROLS COOKING

GLASS COOKTOP SURFACE

Glass Cooktop Surface Notes:

- **Cooktop may emit light smoke and odor** the first few times the cooktop is used. This is normal.
- **Glass cooktops retain heat for a period of time after the elements are turned off.** Turn the elements off a few minutes before food is completely cooked and use the retained heat to complete cooking. When the hot surface light turns off, the cooking area will cool down enough to touch. Because of the way they retain heat, the cooktop elements will not respond to changes in settings as quickly as coil elements.
- In the event of a potential boilover, remove the pan from the cooking surface.
- **Do not attempt to lift the cooktop.**
- The smoothtop surface may appear discolored when it is hot. This is normal and will disappear when the surface cools.

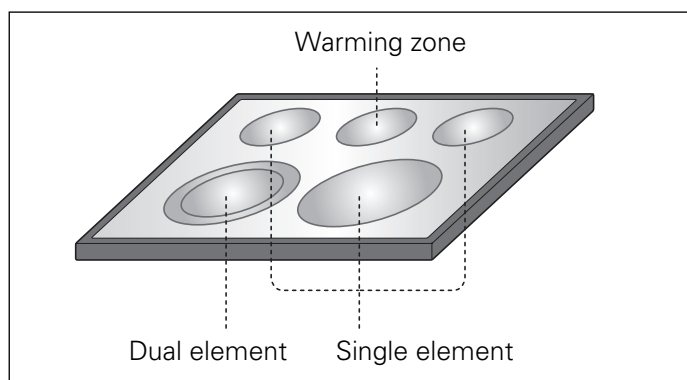
COOKING AREAS

The cooking areas on your range are identified by permanent circles on the glass cooktop surface. For the most efficient cooking, fit the pan size to the element size.

Pans should not extend more than 1/2 to 1-inch beyond the cooking area.

When a control is turned on, a glow can be seen through the glass cooktop surface. **The element will cycle on and off to maintain the preset heat setting, even on Hi.**

For more information on cookware, refer to Cookware Recommendations.



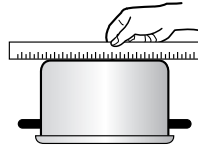
SURFACE CONTROLS COOKING

USING THE PROPER COOKWARE

Using the right cookware can prevent many problems, such as food taking longer to cook or achieving inconsistent results. Proper pans will reduce cooking times and cook food more evenly. Stainless steel is recommended.

Check pans for flat bottoms by using a straight edge or ruler

1. Place a ruler across the bottom of the pan.
2. Hold it up to the light.
3. No light should be visible under the ruler.



HOME CANNING TIPS

Be sure the canner is centered over the surface unit. Make sure the canner is flat on the bottom.

The base must not be more than 1 inch larger than the element. Use of water bath canners with rippled bottoms may extend the time required to bring the water to a boil and cooktops may be damaged.

Some canners are designed with smaller bases for use on smooth top surfaces.

Use the high heat setting only until the water comes to a boil or pressure is reached in the canner.

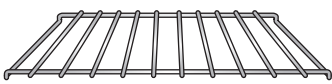
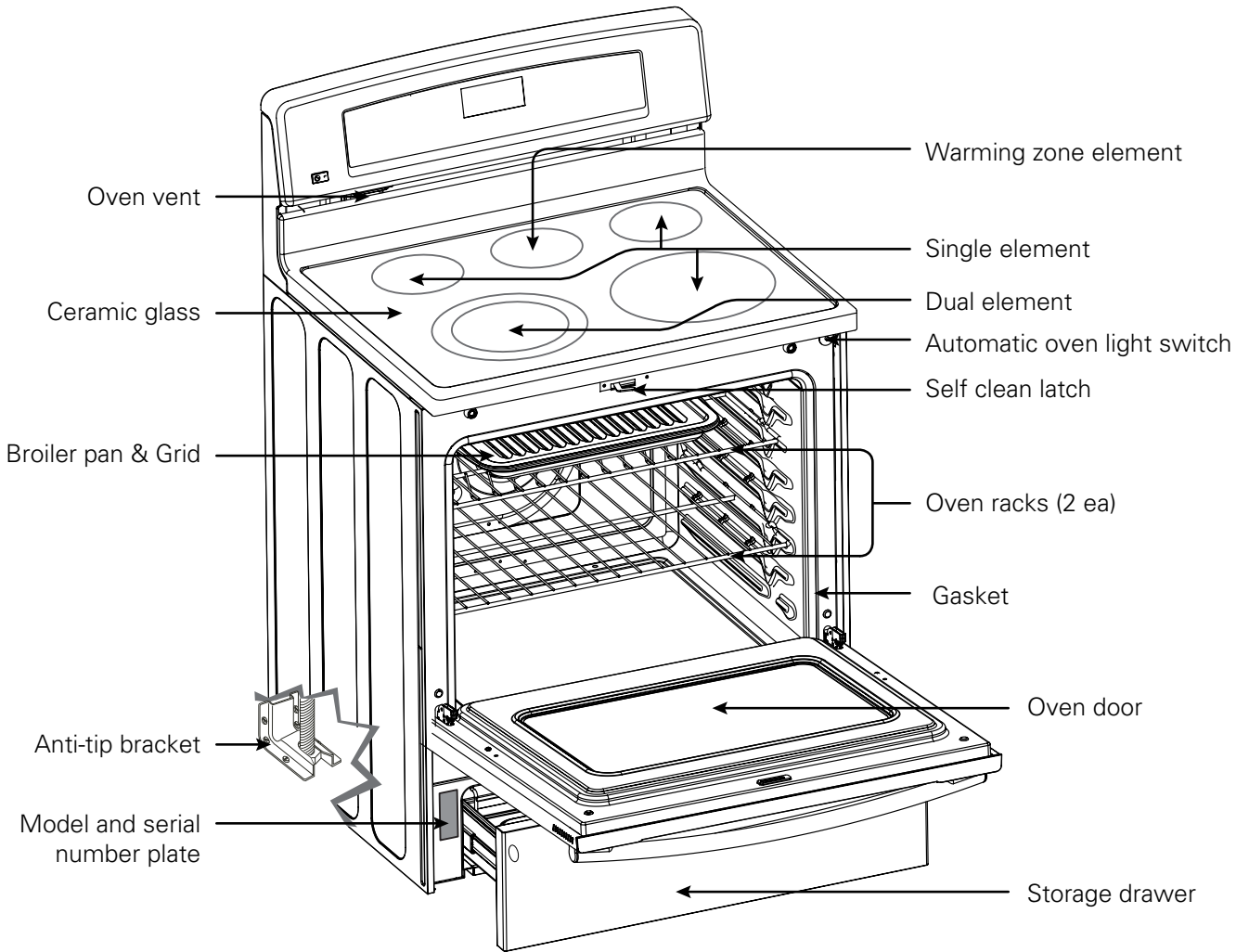
Reduce to the lowest heat setting that maintains the boil, or pressure. If the heat is not turned down, the cooktop may be damaged.

Recommended	Incorrect
Flat bottom and straight sides.	Curved, grooved, or warped pan bottoms. Pans with uneven bottoms do not cook efficiently and sometimes may not boil liquid.
Heavy-gauge pans.	Very thin-gauge metal or glass pans.
Pan sizes match the amount of food to be prepared and the size of the surface element.	Pans are smaller or larger than the element.
Weight of handle does not tilt pan. Pan is well balanced.	Cookware with loose or broken handles. Heavy handles that tilt the pan.
Tight-fitting lids.	Loose-fitting lids.
Flat bottom woks.	Woks with a ring-stand bottom.

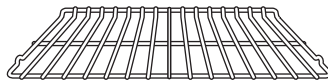
- NOTE:**
- Do not use a small pan on a large element. Not only does this waste energy, but it can also result in spillovers burning onto the cooking area which requires extra cleaning.
 - Do not use non-flat specialty items that are oversized or uneven such as round bottom woks, rippled bottom, and/or oversized canners and griddles.
 - Do not use foil or foil-type containers. Foil may melt onto the glass. If metal melts on the cooktop, do not use. Call an authorized Service agent.

INFORMATION

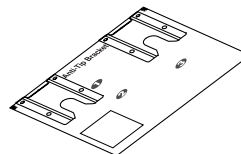
PARTS AND FEATURES



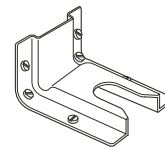
Roast rack



Oven racks (2 ea)



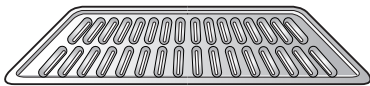
Template



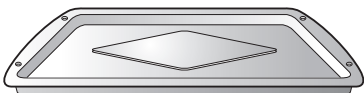
Anti-tip bracket



Screws (6 ea)



Grid



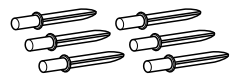
Broiler pan



Cleaner



Cleaning pad

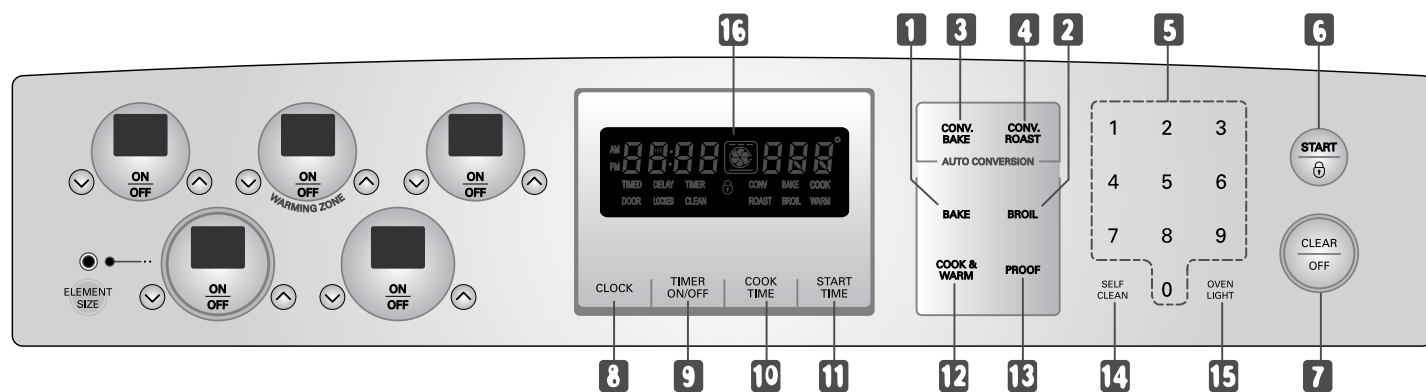


Anchors (6 ea)

INFORMATION

CONTROL PANEL FEATURES

READ THE INSTRUCTIONS CAREFULLY BEFORE USING THE OVEN. For satisfactory use of your oven, become familiar with the various features and functions of the oven as described below. **Detailed instructions for each feature and function follow later in this Owner's manual.**



- 1. BAKE PAD:** Press to select the bake function.
- 2. BROIL PAD:** Press to select the broil function.
- 3. CONVECTION BAKE PAD:** Press to select baking with the convection function.
- 4. CONVECTION ROAST PAD:** Press to select roasting with the convection function.
- 5. NUMBER PADS:** Use to set any function requiring numbers such as the time of day on the clock, the timer, the oven temperature, the start time and length of operation for timed baking.
- 6. START PAD:** Must be pressed to start any cooking or cleaning function.
- 7. CLEAR/OFF PAD:** Press to cancel all oven operations except the clock and timer.
- 8. CLOCK PAD:** Press before setting the time of day.
- 9. TIMER ON/OFF PAD:** Press to select the timer feature.
- 10. COOK TIME PAD:** Press and then use the number pads to set the amount of time you want your food to cook. The oven will shut off when the cooking time has run out.
- 11. START TIME PAD:** Use along with BAKE, CONV. BAKE, CONV. ROAST, COOK TIME, and SELF CLEAN pads to set the oven to start and stop automatically at a time you set.
- 12. COOK & WARM PAD:** Press to keep cooked foods warm. See the how to set the oven for warming section.

- 13. PROOF PAD:** Press to select a warm environment useful for rising yeast-leavened products.
- 14. SELF CLEAN PAD:** Press to select self-cleaning function. See the using the Self-Cleaning Oven section.
- 15. OVEN LIGHT PAD:** Press to turn the oven light on or off.
- 16. DISPLAY:** Shows the time of day, oven temperature, whether the oven is in the bake, broil or self-cleaning mode, and the times set for the timer or automatic oven operations.

NOTE: If F- and a number appear in the display and the oven control signals, this indicates a function error code.

See page 30.

Press the **CLEAR/OFF** pad. Allow the oven to cool for one hour. Put the oven back into operation.

If the function error code repeats, disconnect the power to the oven and call for service.

If your oven was set for a timed oven operation and a power outage occurred, the clock and all programmed functions must be reset.

The time of day will flash and PF will appear in the display when there has been a power outage.

OPERATION

SETTING THE CLOCK

The **CLOCK** pad is used to set the clock. The clock has been preset at the factory for 12 hours operation. When the range is first plugged in, or when the power supply to the range has been interrupted, the timer in the display will show with power failure PF. You can make a choice between 12-hour clock and 24-hour clock (refer to the page 14):

To set the clock (example below for 1:30):

1. Press **CLEAR/OFF**.

2. Press **CLOCK**.

3. Press **1**, **3**, and **0** to set the time of day to 1:30.

4. Press **START**.
The clock will start.

MINIMUM & MAXIMUM CONTROL PAD SETTINGS

All of the features listed have minimum and maximum time or temperature settings that may be entered into the control. An entry acceptance beep will sound each time a control pad is pressed.

An entry error tone (3 short beeps) will sound if the entry of the temperature or time is below the minimum or above the maximum settings for the feature.

FEATURE	MIN. TEMP. /TIME	MAX. TEMP. /TIME
BAKE TEMP.	170°F / 75°C	550°F / 285°C
BROIL TEMP.	LO (400°F)	HI (550°F)
SELF CLEAN TIME	2 hours	4 hours
CONVECTION BAKE/ CONVECTION ROAST	300°F / 150°C	550°F / 285°C
COOK & WARM	170°F (75°C) / 3 hours	
RADIANT ELEMENT	Default: 12 Hr.	
WARMING ZONE	Default: 2 Hr.	
PROOF	Default: 12 Hr.	

SETTING THE TIMER ON/OFF

The **TIMER ON/OFF** serves as an extra timer in the kitchen that will beep when the set time has run out. It does not start or stop cooking. The **TIMER ON/OFF** feature can be used during any of the other oven control functions.

To set the Timer (example for 5 minutes):

1. Press **TIMER ON/OFF** twice.
0:00 and **HR** inside **O** will appear and **TIMER** will flash in the display.

2. Press the number pads to set the desired time in the display (press **5**).
If you make a mistake press the **TIMER ON/OFF** and begin again.

3. Press **TIMER ON/OFF**. The time will count down with **5:00** and **TIMER** will show in the display.

NOTE: If **TIMER ON/OFF** is not pressed, the timer will return to the time of day.

4. When the set time has run out, **End** will show in the display. The clock will sound with 3 beeps every 15 seconds until **TIMER ON/OFF** is pressed.

NOTE: If the remaining time is not in the display, recall the remaining time by pressing the **TIMER ON/OFF**.

NOTE:

- If you press **TIMER ON/OFF** once, it allows you to set the time in seconds.
(for example: if you press 5 and 6, it means 56 seconds)
- If you press **TIMER ON/OFF** twice, it allows you to set the time in minutes.
(for example: if you press 5 and 6, it means 56 minutes)

To cancel the Timer before the set time has run out:

- Press **TIMER ON/OFF** once.
The display will return to the time of day.


OPERATION (OPTIONS)

SETTING OVEN LOCKOUT FEATURE

The **START** pad controls the Oven Lockout feature. The Oven Lockout feature automatically locks the oven door, prevents the Warming Drawer and most oven controls from being turned ON. It does not disable the clock, timer or the interior oven light.


To activate the Oven Lockout feature:



1. Press and hold **START** for 3 seconds.
2. 2 beeps will sound, **DOOR LOCKED** will flash in the display. Once the oven door is locked the **DOOR LOCKED** indicator will stop flashing and remain on along with the lock icon () light.

To reactivate normal oven operation:



1. Press and hold **START** for 3 seconds. A beep will sound 2 times. The **DOOR LOCKED** will continue to flash until the oven door has completely unlocked and the lock icon () light will clear.
2. The oven is again fully operational.

CHANGING HOUR MODE ON CLOCK(12hr, 24hr)

Your control is set to use a 12-hour clock. If you would prefer to have a 24-hour time clock, follow the steps below.

Changing between 12 or 24 hour time of day

COOK & WARM

1

1



1. Press and hold **COOK & WARM** pad for 3seconds. **OPt** will be displayed.
2. Press **1**. The display will show **CLO 12H**.
3. Press **1** to switch between the **12H** and **24H**.
4. Press **START** to accept the desired change.

SETTING TEMPERATURE UNIT – FAHRENHEIT OR CENTIGRADE

COOK & WARM pad control the Fahrenheit or Centigrade temperature display modes. The oven control can be programmed to display temperatures in Fahrenheit or Centigrade. The oven has been preset at the factory to display in Fahrenheit.

To change display from Fahrenheit to Centigrade or Centigrade to Fahrenheit:

COOK & WARM

2

2



1. Press **COOK & WARM** for 3 seconds.
2. Press **2**. The display will show **Unit F**.
3. Press **2** to switch between the **F** and **C**.
4. Press **START** to accept the desired change.

SETTING BEEPER VOLUME

The beeper volume feature allows you to adjust the volumes to a more acceptable volume. There are three possible volume levels.

To set beeper volume

COOK & WARM

3

3



1. Press **COOK & WARM** for 3 seconds.
2. Press **3**. The display will show **BEEP Hi**.
3. Press **3** to switch beeper volume (Hi, Lo, and OFF).
4. Press **START** to accept the desired change.

OPERATION (OPTIONS)

SETTING PREHEATING ALARM LIGHT ON/OFF

The interior oven light automatically turn on when the oven door is opened.

When oven reaches set-temperature after preheat, the oven notifies preheat-end by flashing oven lamp until door is opened.

You can activate or deactivate smart oven light feature. Default Setting is on.

To set smart oven light on/off

COOK & WARM	1. Press COOK & WARM for 3 seconds.
4	2. Press 4 . The display will show PrE On .
4	3. Press 4 to switch between the On and OFF .
START	4. Press START to accept the change.

SETTING CONVECTION AUTO CONVERSION FEATURE

When using convection bake, the Convection Auto Conversion feature will automatically convert entered regular baking temperatures to convection baking temperatures.

This feature is activated so that the display will show the actual converted (reduced) temperature. For example, if you enter a regular recipe temperature of 350°F and press the **START** pad, the display will show the converted temperature of 325°F.

To set the feature ON/OFF

COOK & WARM	1. Press the COOK & WARM for 3 seconds.
5	2. Press 5 . The display will show Auto On .
5	3. Press 5 to switch between the On and OFF .
START	4. Press START to accept the desired change.

THERMOSTAT ADJUSTMENT

The temperature in the oven has been preset at the factory. When first using the oven, be sure to follow recipe times and temperatures. If you think the oven is too hot or too cool, the temperature in the oven can be adjusted. Before adjusting, test a recipe by using a temperature setting that is higher or lower than the recommended temperature. The baking results should help you to decide how much of an adjustment is needed.

The oven temperature can be adjusted from $\pm 35^{\circ}\text{F}(\pm 19^{\circ}\text{C})$.

NOTE: The thermostat adjustments made with this feature will just change Bake, Convection Bake and Convection Roast temperature.

To increase the oven temperature:

BAKE	1. Press and hold BAKE for 3 seconds.
2 0	2. To increase the temperature use the number pads to enter the desired change. (Example 20°F : 2 and 0). 20° will be displayed.
START	3. Press START to accept the temperature change and the display will return to the time of day. Press CLEAR/OFF to reject the change if necessary.
CLEAR OFF	

To decrease the oven temperature:

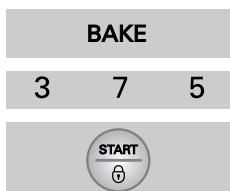
BAKE	1. Press and hold BAKE for 3 seconds.
2 0	2. To decrease the temperature use the number pads to enter the desired change. (Example -20°F : 2 and 0) and then press BAKE once. - 20° will be displayed.
BAKE	3. Press START to accept the temperature change and the display will return to the time of day. Press CLEAR/OFF to reject the change if necessary.
START	
CLEAR OFF	

OPERATION

SETTING BAKE

The **BAKE** pad controls normal baking. The oven can be programmed to bake at any temperature from 170°F to 550°F. Default temperature is 350°F (175°C).

To set the Bake Temperature to 375°F:



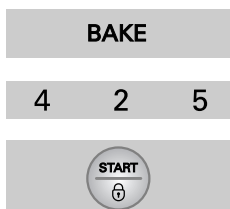
1. Press **BAKE**. **350°** will appear in the display.
2. Press **3**, **7**, and **5**. **BAKE** will flash.
3. Press **START**. The display will show **BAKE** and the changing temperature starting at 100°F.

IMPORTANT NOTE:

Place food in the oven after preheating if the recipe calls for it. Preheating is so important for good results when baking cakes, cookies, pastry, and breads. After the oven has reached the desired temperature, long beeps will sound 5 times and oven lamp will flash. This will take approximately 10~15 minutes.

Press **CLEAR/OFF** to cancel the Bake feature at any time.

To change the Bake Temperature while cooking (example changing from 375° to 425°F):



1. If the oven temperature needs to be changed to 425°F, press **BAKE** and **350°** will show in the display.
2. Press **4**, **2**, and **5**.
3. Press **START**.

BAKING LAYER CAKES

Baking results will be better if baking pans are centered in the oven as much as possible. If baking with more than one pan, place the pans so each has at least 1" to 1½" of air space around it.

If cooking on multiple racks, place the oven racks in positions B and D (for 2 racks). Place in positions B, D, and F (for 3 racks). Place the cookware as shown in Fig. 1, 2.



Fig.1

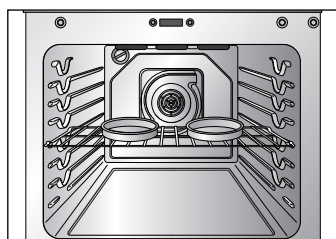
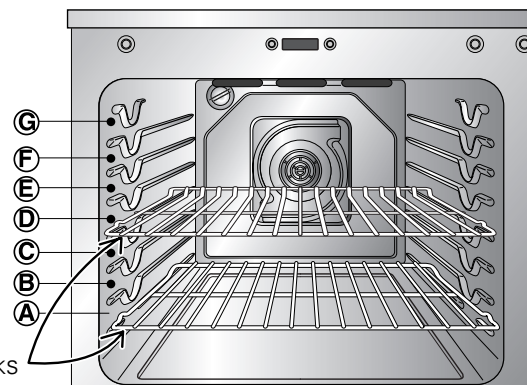


Fig.2



- The oven has 7 rack positions.

Type of Food	Rack Position
Angel food cake, Frozen pies	B
Bundt or pound cakes	C
Biscuits, muffins, brownies, cookies, cupcakes, layer cakes, pies	D
Casseroles	D
Turkey, roast, or ham	A

BEFORE USING OVEN RACKS

The oven has three racks (2 heavy rack, 1 split rack). The racks have stops to be placed correctly on the supports, those will stop before coming completely out.

To remove racks:

1. Pull the rack straight out until it stops.
2. Lift up the front of the rack and pull it out.

To replace racks.

1. Place the end of the rack on the support.
2. Tilt the front end up and push the rack in.

CAUTION

1. Do not cover a rack with aluminum foil or place foil or any other material on the oven bottom. This will result in poor baking by disturbing heat circulation and may damage the oven bottom.
2. Always arrange oven racks when the oven is cool.

OPERATION

SETTING TIMED BAKE

The oven will turn on immediately and cook for a selected length of time. At the end of the cooking time, the oven will turn off automatically.

**To program the oven to begin baking immediately and to shut off automatically:
(example below to bake at 300°F for 30 minutes):**

- | |
|-----------|
| BAKE |
| 3 0 0 |
| COOK TIME |
| 3 0 |
1. Be sure the clock is set for the correct time of day.
 2. Press **BAKE**, **350°** will appear in the display.
 3. Press **3, 0**, and **0**. **BAKE** will flash and **300°** will appear in the display.
 4. Press **COOK TIME. TIMED** will flash. **BAKE, 0:00** and **300°** will appear in the display.
 5. Enter the desired baking time by pressing **3** and **0**. **TIMED** will flash and **BAKE, 30:00** and **300°** will appear in the display.
NOTE: Baking time can be set for any amount of time between 1 minute to 11 hours and 59 minutes.
 6. Press **START**. The oven will turn on, and the display will show the cooking time countdown and the changing temperature starting at 100°F (the temperature display will start to change once the oven temperature reaches 100°F). The oven will continue to cook for the set amount of time, then turn off automatically, unless the **COOK & WARM** feature was set. Refer to the *Setting the COOK & WARM feature* section on page 22.



When the Timed Bake finishes:



1. **End** and the time of day will show in the display. The oven will shut off automatically.
2. The control will continue to beep 3 times every minute until **CLEAR/OFF** is pressed.

CAUTION

Use caution with the **TIMED BAKE** or **DELAYED TIMED BAKE** features. Use the automatic timer when cooking cured or frozen meats and most fruits and vegetables. Foods that can easily spoil, such as milk, eggs, fish, meat or poultry, should be chilled in the refrigerator first. Even when chilled, they should not stand in the oven for more than 1 hour before cooking begins, and should be removed promptly when cooking is completed. Eating spoiled food can result in sickness from food poisoning.

IMPORTANT NOTE:

Place food in the oven after preheating if the recipe calls for it. Preheating is so important for good results when baking cakes, cookies, pastry, and breads. After the oven has reached the desired temperature, long beeps will sound 5 times and oven lamp will flash. This will take approximately 10~15 minutes.

OPERATION

SETTING DELAYED TIMED BAKE

The **BAKE**, **COOK TIME** and **START TIME** pads control the Delayed Timed Bake feature. The automatic timer of the Delayed Timed Bake will turn the oven ON and OFF at the time you select in advance.

To program the oven for a Delay Start and to shut off automatically (example for baking at 300°F for 30 minutes and starting at 4:30):

1. Be sure that the clock is set with the correct time of day.
2. Arrange interior oven rack(s) and place the food in the oven.
3. Press **BAKE**. **350°** will appear in the display.
4. Press **3**, **0**, and **0**. **BAKE** will flash and **300°** will appear in the display.
5. Press **COOK TIME. TIMED** will flash; **BAKE, 0:00** and **300°** will appear in the display.

NOTE: If you want to change cook time, repeat steps 5~6 and press **START**.

6. Enter the desired baking time using the number pads by pressing **3** and **0**. **TIMED** will flash; **BAKE, 30:00** and **300°** will appear in the display.

NOTE: Baking time can be set for any amount of time from 1 minute to 11 hours and 59 minutes.

7. Press **START TIME**. Enter the desired start time using the number pads **4**, **3**, and **0**.

8. Press **START**. At the set time, a short beep will sound. The oven will begin to Bake. When the oven has reached the desired temperature, a long beep will sound 5 times and oven lamp will flash. The display will show **300°** and **BAKE**.

NOTE: Press **CLEAR/OFF** to cancel the Delayed Timed Bake feature at any time.

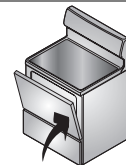
When the set bake time runs out:

1. **End** and the time of day will show in the display. The oven will shut off automatically.
2. The unit will continue to beep 3 times every minute until **CLEAR/OFF** is pressed.



SETTING BROIL

Leave the door open to the broil stop position. The door will stay open by itself, yet the proper temperature is maintained in the oven.



Broil Stop Position

To set the oven to broil at the Hi or Lo setting:

1. Place the meat or fish on the broiler grid in the broiler pan.
 2. Follow suggested rack positions in the **Broiling Guide**.
 3. Press **BROIL** once for **Hi** broil or twice for **Lo** broil. Use **Lo** to cook foods such as poultry or thick cuts of meat thoroughly without over-browning them.
 4. Press **START**. The oven will begin to broil.
 5. Broil on one side until food is browned; turn and cook on the other side.
- NOTE:** Always pull the rack out to the stop position before turning or removing food.

6. To cancel broiling or if finished broiling press **CLEAR/OFF**.



WARNING

Should an oven fire occur, leave the oven door closed and turn the oven off. If the fire continues, throw baking soda on the fire or use a fire extinguisher. **DO NOT** put water or flour on the fire. Flour may be explosive and water can cause a grease fire to spread and cause personal injury.

OPERATION

RECOMMENDED BROILING GUIDE

The size, weight, thickness, starting temperature, and your preference of doneness will affect broiling times. This guide is based on meats at refrigerator temperature.

For best results when broiling, use a pan designed for broiling (refer to the Fig. 1)

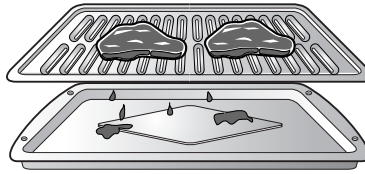
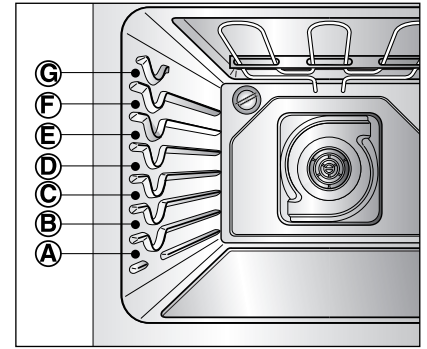


Fig.1



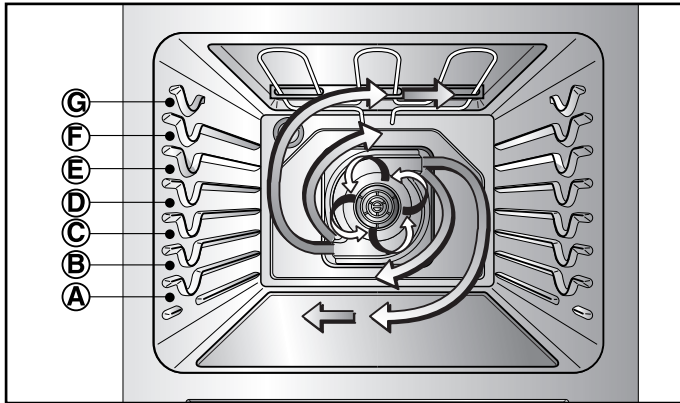
Food	Quantity and/ or Thickness	Shelf Position	First Side Time (min.)	Second Side Time (min.)	Comments
Ground Beef Well Done	1 lb. (4 patties) 1/2 to 3/4" thick	F	7-9	3-5	Space evenly. Up to 8 patties may be broiled at once.
Beef Steaks Rare Medium Well Done	1" thick 1 to 1 1/2 lbs.	F F F	6 7 8	2-3 2-3 3-4	Steaks less than 1" thick cook through before browning. Pan frying is recommended. Slash fat.
Rare Medium Well Done	1 1/2" thick 2 to 2 1/2 lbs.	D D D	10 12 14	4-6 6-8 8-10	
Chicken	1 whole cut up 2 to 2 1/2 lbs., split lengthwise 2 Breasts	C	20	6-8	Broil skin-side-down first.
Lobster Tails	2-4 10 to 12 oz. each	C	12-14	Do not turn over.	Cut through back of shell. Spread open. Brush with melted butter before broiling and after half of broiling time.
Fish Fillets	1/4 to 1/2" thick	E	5	3-4	Handle and turn very carefully. Brush with lemon butter before and during cooking, if desired.
Ham Slices (precooked)	1/2" thick	D	5	3-5	Increase time 5 to 10 minutes per side for 1 1/2" thick or home-cured ham.
Pork Chops Well Done	2 (1 1/2" thick) 2 (1" thick) about 1 lb.	E D	7 9-10	6-8 7-9	Slash fat.
Lamb Chops Medium Well Done	2 (1" thick) about 10 to 12 oz.	E E	6 8	4-6 7-9	Slash fat.
Medium Well Done	2 (1 1/2" thick) about 1 lb.	E E	11 13	9 9-11	
Salmon Steaks	2 (1" thick) 4 (1" thick) about 1 lb.	D D	8 9	3-4 4-6	Grease pan. Brush steaks with melted butter.

OPERATION

SETTING CONVECTION BAKE

Benefits of Convection Bake:

1. Some foods cook up to 25 to 30% faster, saving time and energy.
2. Multiple rack baking.
3. No special pans or bakeware needed.



To set the oven for Convection Bake and temperature to 375°F:



1. Press **CONV. BAKE**. **CONV BAKE** will flash and **350°** will appear in the display.
2. Press **3, 7, and 5**.
3. Press **START**. The display will show **CONV BAKE** and the changing temperature starting at 100°F. A beep will sound 3 times when the **adjusted** oven temperature (for this example it is 350°F) is reached and the display will show auto-converted oven temperature **350°, CONV BAKE** and the fan icon.

Press **CLEAR/OFF** to cancel Convection Bake at any time.

The **CONV. BAKE** pad controls the Convection Bake feature. Use the Convection Bake feature when cooking speed is desired. The oven can be programmed for Convection Bake at any temperature between 300°F (150°C) to 550°F (285°C).

Convection baking uses a fan to circulate the oven's heat evenly and continuously within the oven. This improved heat distribution allows for even cooking and excellent results using multiple racks at the same time. Foods cooked on a single oven rack will generally cook faster and more evenly with Convection Bake. Multiple oven rack cooking may slightly increase cook times for some foods, but the overall result is time saved. Breads and pastries brown more evenly.

Tips for Convection Bake

- Time reductions will vary depending on the amount and type of food to be cooked. Cookies and biscuits should be baked on pans with no sides or very low sides to allow heated air to circulate around the food. Food baked on pans with a dark finish will cook faster.
- When using Convection Bake with a single rack, place oven rack in position D. If cooking on multiple racks, place the oven racks in positions B and D (for 2 racks). Place in positions B, D, and F (for 3 racks).
- Cakes have better results when baked using the **BAKE** pad (you can still use multiple racks when baking multiple cake layers at the same time).
- Cookies, muffins, biscuits and other quickbreads give very good results when using multiple racks.

OPERATION

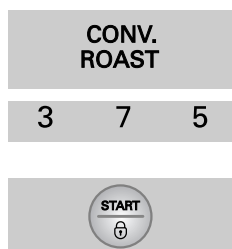
SETTING CONVECTION ROAST

The **CONV. ROAST** pad is designed to give optimum cooking performance for this feature. The Convection Roast pad combines a cook cycle with the convection fan and element to roast meats and poultry. Preheating is not necessary for meats and poultry. Heated air circulates around the food from all sides, sealing in juices and flavors. Foods are crispy brown on the outside while staying moist on the inside.

- Convection Roast is especially good for large tender cuts of meat, uncovered.

To set the Convection Roast feature (example for Meats to cook at 375°F):

1. Arrange interior oven racks and place food in oven.
2. Press **CONV. ROAST. CONV ROAST** will flash and **350°** will be displayed.
3. Press **3, 7, and 5**.
4. Press **START**. The display will show **CONV ROAST** and the changing temperature starting at 100°F. A beep will sound 3 times when the **adjusted** oven temperature (for this example it is 350°F) is reached and the display will show auto-converted oven temperature **350°, CONV ROAST** and the fan icon.



Press **CLEAR/OFF** to cancel this mode at any time.

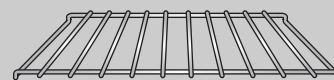
Roasting Rack Instructions

When preparing meats for convection roasting, use the broiler pan and grid along with the roasting rack. The broiler pan will catch grease spills and the grid will help prevent grease splatters. The roasting rack will allow the heat to circulate around the meat.

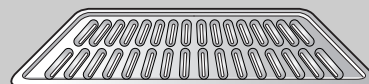
WARNING

To prevent food from contacting the broil element and to prevent grease splattering, **DO NOT** use the roasting rack when broiling.

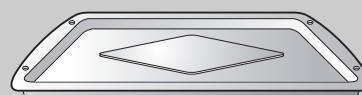
1. Place oven rack on bottom or next to the bottom rack position. See Arranging Oven Racks in the Before Setting Oven Controls section.
2. Place the grid in the broiler pan. The roasting rack fits on the grid allowing the heated air to circulate under the food for even cooking and helps to increase browning on the underside. Make sure the roasting rack is securely seated on the grid in the broiler pan. **DO NOT** use the broiler pan without the grid. **DO NOT** cover the grid with aluminum foil.
3. Position food (fat side up) on the roasting rack.
4. Place the broiler pan on the oven rack.



Roasting rack



Grid



Broiler Pan

OPERATION

SETTING THE COOK & WARM FEATURE

The **COOK & WARM** feature will maintain an oven temperature of 170° F. This feature is not desired to reheat cold foods. The Cook & Warm feature will keep cooked food warm for serving up to 3 hours after cooking has finished. After 3 hours the **Cook & Warm** feature will shut the oven OFF automatically. The Cook & Warm feature may be used without any other cooking operations or can be used after cooking has finished using **TIMED BAKE (CONV. BAKE, CONV. ROAST)** or **DELAYED TIMED BAKE (CONV. BAKE, CONV. ROAST)**.

To set Cook & Warm:

1. Press **COOK & WARM**.
2. Press **START**.
3. To turn Cook & Warm OFF, press **CLEAR/OFF** at any time.

To set Cook & Warm feature after timed cooking

1. Set the cooking feature that you want to use: **TIMED (BAKE, CONV. BAKE, CONV. ROAST), DELAY TIMED (BAKE, CONV. BAKE, CONV. ROAST)** refer to the relevant previous page.
2. Press **START**.
3. Press **COOK & WARM**. **COOK & WARM** mode is set to turn on automatically after completing the **TIMED COOKING** or **DELAY TIMED COOKING**.
4. To turn Cook & Warm off at any time press **CLEAR/OFF**.

NOTE: Do not use plastic containers, lids, or plastic wrap. Cover them with an oven-safe lids or aluminum foil.

TO TURN ON/OFF THE OVEN LIGHT

OVEN LIGHT

The oven light automatically turns ON when the door is opened. The oven light may also be manually turned ON or OFF by pressing the **OVEN LIGHT** pad.

NOTE: The oven light cannot be turned on if the self-clean feature is active.

SETTING THE PROOF FEATURE

The proof feature maintains a warm environment useful for rising yeast-leavened products.

How to Set the Oven For Proofing

1. Place the covered dough in a dish in the oven on shelf B or C.

NOTE: For best results, cover the dough with a cloth or with plastic wrap (the plastic may need to be anchored underneath the container so the oven fan will not blow it off).

PROOF

START

CLEAR OFF

2. Press **PROOF** and then the **START**. The proof feature automatically provides the optimum temperature for the proof process, and therefore does not have a temperature adjustment.
3. When proofing is finished, press **CLEAR/OFF**.

To avoid lowering the oven temperature and lengthening proofing time, do not open the oven door unnecessarily. Check bread products early to avoid over-proofing.

NOTE:

- Do not use the proofing mode for warming food or keeping food hot. The proofing oven temperature is not hot enough to hold foods at safe temperatures. Use the **COOK & WARM** feature to keep food warm.
- Proofing will not operate when oven is above 125°F. **Hot** will show in the display.

SELF-CLEAN

The self-clean cycle uses above normal cooking temperatures to clean the oven's interior automatically.

It is normal for flare-ups, smoking, or flaming to occur during cleaning if the oven is heavily soiled. It is better to clean the oven regularly rather than to wait until there is a heavy build-up of soil in the oven.

During the cleaning process, the kitchen should be well ventilated to get rid of normal odors associated with cleaning.

CAUTION

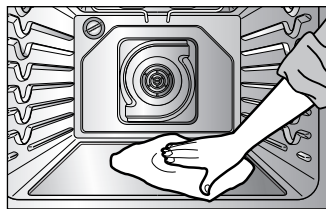
- During the Self-Cleaning cycle, the outside of the range can become very hot to touch. **DO NOT** leave small children unattended near the appliance.
- The health of some birds is extremely sensitive to the fumes given off during the Self-Cleaning cycle of any range. Move birds to another well-ventilated room.
- **DO NOT** line the oven walls, racks, bottom or any other part of the range with **aluminum foil or any other material**. Doing so will destroy heat distribution, produce poor baking results and cause permanent damage to the oven interior (aluminum foil will melt to the interior surface of the oven).
- **DO NOT** force the oven door open. This can damage the automatic door locking system. Use care when opening the oven door after the Self-Cleaning cycle. Stand to the side of the oven when opening the door to allow hot air or steam to escape. The oven may still be **VERY HOT**.

- The silver--colored oven racks can be self-cleaned, but they will darken, lose their luster and become hard to slide.
- Soil on the front frame of the range and outside the gasket on the door will need to be cleaned by hand. Clean these areas with hot water, soap-filled steel-wool pads, or cleansers such as Soft Scrub. Rinse well with clean water and dry.
- Do not clean the gasket. The fiberglass material of the oven door gasket cannot withstand abrasion. It is essential for the gasket to remain intact. If you notice it becoming worn or frayed, replace it.
- Wipe up any heavy spillovers on the oven bottom.
- Make sure the oven light bulb cover is in place and the oven light is off.
- Do not leave baking/ pizza stone in the oven during the Self-Clean cycle.

Before a Self-Clean Cycle

We recommend venting your kitchen with an open window or using a ventilation fan or hood during the first self-clean cycle.

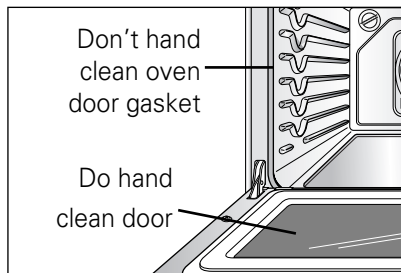
Remove the oven racks, broiler pan, broiler grid, all cookware, and aluminum foil or any other material from the oven.



Wipe up heavy soil on the oven bottom.

NOTE:

Remove silver-colored oven racks before you begin the self-clean cycle.



SELF-CLEAN

The **SELF-CLEAN** pad is used to start a Self-Clean cycle. When used with **START TIME** pad, a delayed Self-Clean cycle may also be programmed. The Self-Clean function has cycle times of 2, 3, or 4 hours.

To start an immediate Self-Clean cycle and shut off automatically

1. Be sure the clock is set with the correct time of day, the oven is empty and the oven door is closed.
2. Press **SELF CLEAN** once for a 3-hour clean time or twice for a 2-hour clean time or 3 times for 4-hour clean time. A 3-hour self-clean time is recommended for use when cleaning small, contained spills. A self-clean time of 4 hour is recommended for a dirtier oven.
3. Press **START**. The **DOOR LOCKED** icon will flash.
4. As soon as the control is set, the motor driven oven door lock will begin to close automatically.

SELF
CLEAN

Stopping or Interrupting a Self-Clean cycle:

If it becomes necessary to stop or interrupt a Self-Cleaning cycle due to excessive smoke or fire in the oven:



1. Press **CLEAR/OFF**.
2. Once the oven has cooled down for approximately 1 HOUR, the "DOOR LOCKED" icon will no longer display and oven door can be opened.

IMPORTANT NOTES when using the Self-Clean feature:

- A Self-Clean cycle cannot be started if **Oven Lockout** feature is active.
- If your clock is set for normal 12 hours display mode the Delayed Self-Clean can never be set to start more than 12 hours in advance. To set for a delayed Self-Clean cycle 12-24 hours in advance see page 14 for instructions to set the control for the 24 hours time of day display mode.

After the Self-Clean cycle

- You may notice some white ash in the oven. Wipe it off with a damp cloth or a soapfilled steel wool pad after the oven cools. These deposits are usually a salt residue that cannot be removed by the clean cycle. If the oven is not clean after one clean cycle, repeat the cycle.
- If oven racks were left in the oven and do not slide smoothly after a clean cycle, wipe racks and rack supports with a small amount of vegetable oil to make them easier to move.
- Fine lines may appear in the porcelain because it went through heating and cooling. This is normal and will not affect performance.

During the Self-Clean cycle

- You may see some smoke and smell an odor the first few times the oven is cleaned. This is normal and will lessen in time. Smoke may also occur if the oven is heavily soiled or if a broiler pan was left in the oven.
- As the oven heats, you may hear sounds of metal parts expanding and contracting. This is normal and will not damage the oven.
- The oven doors will be damaged if the oven doors are forced to open when LOCK is still displayed.

To set a delay start time of 8:00 o'clock

SELF
CLEANSTART
TIME

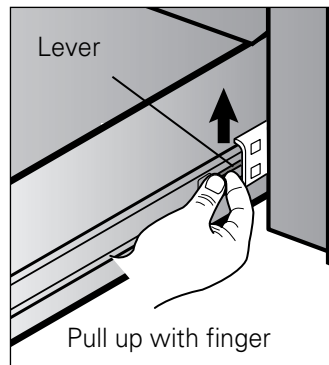
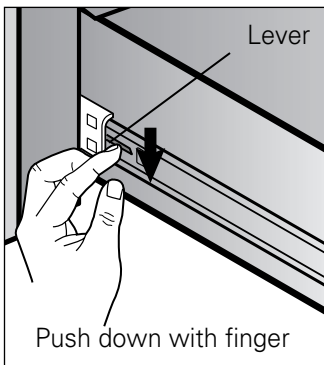
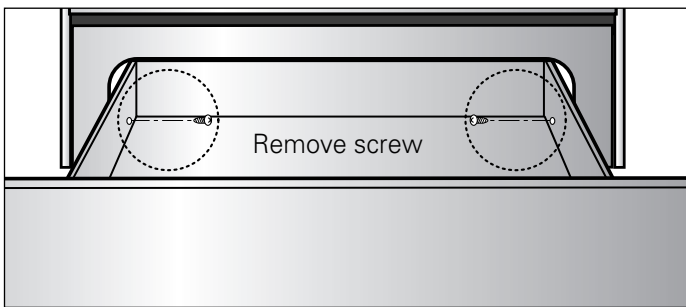
1. Press **SELF CLEAN**. Select the desired self clean time by pressing **SELF CLEAN**.
2. Press **START TIME**. Enter the desired Self-Clean starting time using the number **8, 0,** and **0**.
3. Press **START, DELAY** and **CLEAN** will remain on.
4. Self-Cleaning cycle will turn on automatically at the set time.

MAINTENANCE

REMOVING & REPLACING THE STORAGE DRAWER

To Remove Storage Drawer:

1. **CAUTION** - Turn power OFF before removing the Storage Drawer.
2. Open the drawer to the fully opened position.
3. Remove the 2 screws (right and left sides). (refer to the drawing below)
4. Locate glide lever on each side of drawer, push down on the left glide lever and pull up on the right glide lever.
5. Pull the Storage Drawer away from the range.



To Replace the Storage Drawer:

1. Replace shield on the right glide of the drawer body.
2. **Pull the bearing glides to the front** of the chassis glide.
3. Align the glide on each side of the drawer with the glide slots on the range.
4. Push the drawer into the range until levers click (approximately 2 inches). Pull the drawer open again to seat bearing glides into position. **If you do not hear the levers click or the bearing glides do not feel seated, remove the drawer and repeat steps 2-4.** This will minimize possible damage to the bearing glides.

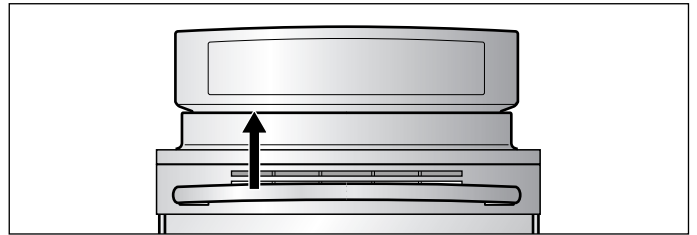
OVEN VENT

The oven vent is located above the left rear surface unit.

This area could become hot during oven use.

It is normal for steam to come out of the vent.

The vent is important for proper air circulation. Never block this vent.



MAINTENANCE

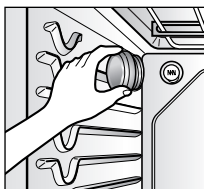
CARE & CLEANING

Changing the Oven Light

The oven light is a standard 40-watt appliance bulb. It will come on when the oven door is open. When the oven door is closed, press OVEN LIGHT to turn it on or off. It will not work during the Self-Clean cycle.

To replace:

- Make sure oven and bulb are cool.
1. Unplug range or disconnect power.
 2. Turn the glass bulb cover in the back of the oven counterclockwise to remove.
 3. Turn bulb counterclockwise to remove from socket.
 4. Replace bulb and bulb cover by turning clockwise.
 5. Plug in range or reconnect power.



CAUTION

- Before replacing your oven light bulb, disconnect the electrical power to the range at the main fuse or circuit breaker panel.
- Make sure oven and bulb are cool.

Painted and Body Parts, and Decorative Trim

For general cleaning, use a cloth with hot and soapy water. For more difficult soils and built-up grease, apply a liquid detergent directly onto the soil. Leave on soil for 30 to 60 minutes. Rinse with a damp cloth and dry. **DO NOT** use abrasive cleaners on any of these materials; they can scratch.

Stainless Steel Surfaces (on some models)

Do not use a steel-wool pad; it will scratch the surface.

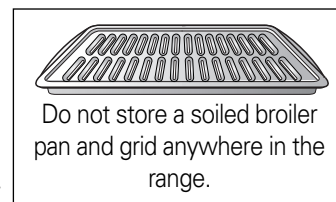
1. Shake bottle well.
2. Place a small amount of Stainless Steel Appliance Cleaner or polish on a damp cloth or damp paper towel.
3. Clean a small area, rubbing with the grain of the stainless steel if applicable.
4. Dry and buff with a clean, dry paper towel or soft cloth.
5. Repeat as necessary.

NOTE: If a mineral oil-based stainless steel appliance cleaner has been used before to clean the appliance, wash the surface with dishwashing liquid and water prior to using the Stainless Steel Appliance Cleaner or polish.

Broiler Pan and Grid

Do not clean the broiler pan or grid in a self-cleaning mode.

After broiling, remove the broiler pan from the oven. Remove the grid from the pan. Carefully pour out the grease from the pan into a proper container.



Wash and rinse the broiler pan and grid in hot water with a soap-filled or plastic scouring pad.

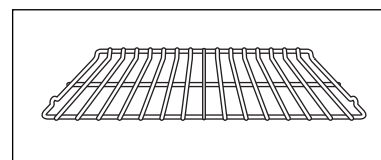
If food has burned on, sprinkle the grid with cleaner while hot and cover with wet paper towels or a dishcloth. Soaking the pan will remove burned-on foods.

Both the broiler pan and grid may be cleaned with a commercial oven cleaner.

Both the broiler pan and grid can also be cleaned in a dishwasher.

Oven Racks

Remove the oven racks before operating the Self-Clean cycle. Leaving the racks in place could cause discoloration, and, if food is spilled into the tracks, could cause the racks to become stuck. If left, clean by using a mild, abrasive cleaner. Rinse with clean water and dry.

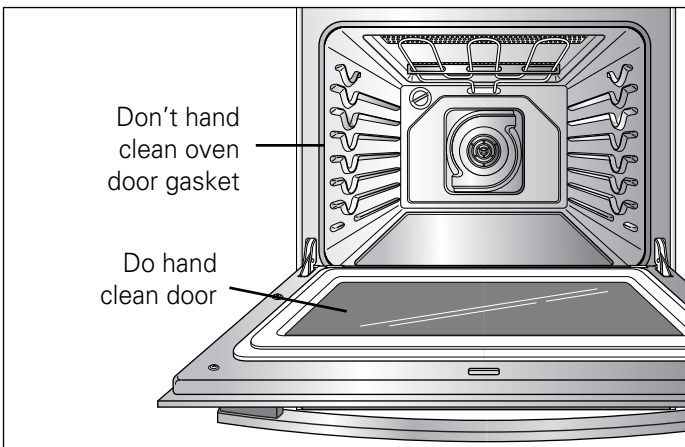


If the racks are cleaned in the Self-Clean cycle, their color will turn slightly blue and the finish will be dull. After the Self-Clean cycle is complete, and the oven has cooled, rub the sides of the racks with wax paper or a cloth containing a small amount of oil. This will make the racks glide easier into the rack tracks.

MAINTENANCE

Oven door

Use soap & water to thoroughly clean the top, sides, and front of the oven door. Rinse well. You may use a glass cleaner on the outside glass of the oven door. **DO NOT** immerse the door in water. **DO NOT spray or allow water or the glass cleaner to enter the door vents.** **DO NOT** use oven cleaners, cleaning powders, or any harsh abrasive cleaning materials on the outside of the oven door. **DO NOT** clean the oven door gasket. The oven door gasket is made of a woven material which is essential for a good seal. Care should be taken not to rub, damage or remove this gasket.



Cleaning the glass cooktop.

Normal Daily Use Cleaning

ONLY use Ceramic Cooktop Cleaner or included cleaner on the glass cooktop. Other creams may not be as effective.

To maintain and protect the surface of your glass cooktop, follow these steps:

1. Before using the cooktop for the first time, clean it with Ceramic Cooktop Cleaner or included cleaner. This helps protect the top and makes cleanup easier.
2. Daily use of Ceramic Cooktop Cleaner or included cleaner will help keep the cooktop looking new.
3. Shake the cleaning cream well. Apply a few drops of Cleaner directly to the cooktop.
4. Use a paper towel or Cleaning Pad for Ceramic Cooktops to clean the entire cooktop surface.
5. Use a dry cloth or paper towel to remove all cleaning residue. No need to rinse.

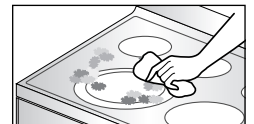
NOTE: It is very important that you **DO NOT** heat the cooktop until it has been cleaned thoroughly.

WARNING

DAMAGE to your glass surface may occur if you use scrub pads other than those recommended.

Burned-On Residue

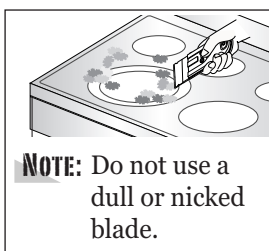
1. Allow the cooktop to cool.
2. Spread a few drops of ceramic Cooktop Cleaner on the entire burned residue area.
3. Using the included Cleaning Pad for Ceramic Cooktops, rub the residue area, applying pressure as needed.
4. If any residue remains, repeat the steps listed above as needed.
5. For additional protection, after all residue has been removed, polish the entire surface with Ceramic Cooktop Cleaner and a paper towel.



MAINTENANCE

Heavy, Burned-On Residue

1. Allow the cooktop to cool.
2. Use the single-edge razor blade scraper at approximately a 45° angle against the glass surface and scrape the soil. It will be necessary to apply pressure to the razor scraper in order to remove the residue.
3. After scraping with the razor scraper, spread a few drops of Ceramic Cooktop Cleaner on the entire burned residue area. Use the included Cleaning Pad to remove any remaining residue.
4. For additional protection, after all residue has been removed, polish the entire surface with included Cooktop Cleaner and a paper towel.



Glass surface—potential for permanent damage.

Sugary spillovers (such as jellies, fudge, candy, syrups) or melted plastics can cause pitting of the surface of your cooktop (not covered by the warranty) unless the spill is removed while still hot.

Special care should be taken when removing hot substances.

Be sure to use a new, sharp razor scraper.

Do not use a dull or nicked blade.

Damage from Sugary Spills and Melted Plastic

1. Turn off all surface units. Remove hot pans.
2. Wearing an oven mitt:
 - a. Use a single-edge razor blade scraper to move the spill to a cool area on the cooktop.
 - b. Remove the spill with paper towels.
3. Any remaining spillover should be left until the surface of the cooktop has cooled.
4. Don't use the surface units again until all of the residue has been completely removed.

NOTE: If pitting or indentation in the glass surface has already occurred, the cooktop glass will have to be replaced. In this case, service will be necessary.

Metal Marks and Scratches

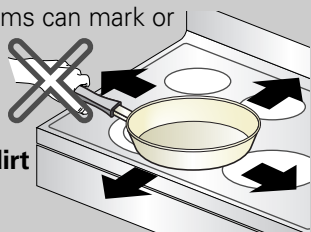
1. Be careful not to slide pots and pans across your cooktop. It will leave metal markings on the cooktop surface. These marks are removable using the Ceramic Cooktop Cleaner or included cleaner with the Cleaning Pad for Ceramic Cooktops.
2. If pots with a thin overlay of aluminum or copper are allowed to boil dry, the overlay may leave black discoloration on the cooktop. This should be removed immediately before heating again or the discoloration may be permanent.

WARNING

Cookware with rough bottoms can mark or scratch the cooktop surface.

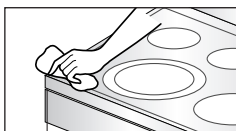
Do not slide anything metal or glass across the cooktop.

Do not use cookware with dirt or dirt build up on bottom.



Cooktop Seal

To clean the cooktop seal around the edges of the glass, lay a wet cloth on it for a few minutes, then wipe clean with nonabrasive cleaners.



MAINTENANCE

REMOVING & REPLACING THE LIFT-OFF OVEN DOOR

CAUTION

The door is very heavy. Be careful when removing and lifting the door. Do not lift the door by the handle.

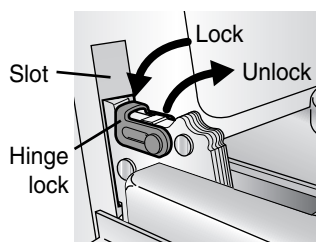
To remove the door:

Step. 1

Open the door fully.

Step. 2

Pull the hinge locks down toward the door frame to the unlocked position.

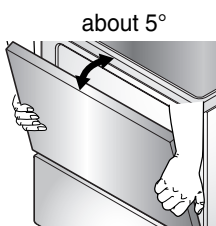


Step. 3

Firmly grasp both sides of the door at the top.

Step. 4

Close door to the door removal position, which is approximately 5 degrees.



Step. 5

Lift door up and out until the hinge arm is clear of the slot.

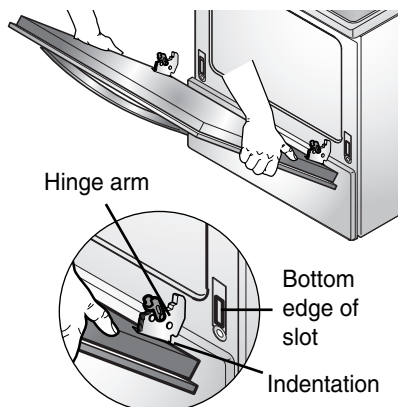
To replace the door:

Step. 1

Firmly grasp both sides of the door at the top.

Step. 2

With the door at the same angle as the removal position, seat the indentation of the hinge arm into the bottom edge of the hinge slot. The notch in the hinge arm must be fully seated into the bottom of the slot.

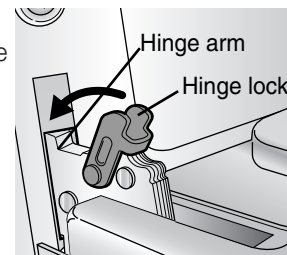


Step. 3

Open the door fully. If the door will not open fully, the indentation is not seated correctly in the bottom edge of the slot.

Step. 4

Push the hinge locks up against the front frame of the oven cavity to the locked position.



Step. 5

Close the oven door.

DOOR CARE INSTRUCTIONS

- Most oven doors contain glass that can break..

Read the following recommendations:

1. Do not close the oven door until all the oven racks are fully in place.
2. Do not hit the glass with pots, pans, or any other object.
3. Scratching, hitting, jarring or stressing the glass may weaken its structure causing an increased risk of breakage at a later time.

TROUBLESHOOTING

BEFORE CALLING FOR SERVICE

Before you call for service, review this list. It may save you time and expense. The list includes common occurrences that are not the result of defective workmanship or materials in this appliance.

Problem	Possible cause / Solution														
Range is not level.	<ul style="list-style-type: none"> • Poor installation. Place oven rack in center of oven. Place a level on the oven rack. Adjust leveling legs at base of range until the oven rack is level. • Be sure floor is level and is strong and stable enough to adequately support range. • If floor is sagging or sloping, contact a carpenter to correct the situation. • Kitchen cabinet alignment may make range appear unlevel. Be sure cabinets are square and have sufficient room for range clearance. 														
Cannot move appliance easily. Appliance must be accessible for service.	<ul style="list-style-type: none"> • Cabinets not square or are built in too tightly. Contact builder or installer to make appliance accessible. • Carpet interferes with range. Provide sufficient space so range can be lifted over carpet. 														
Oven control beeps and displays any F code error.	<ul style="list-style-type: none"> • Electronic control has detected the fault condition. Press CLEAR/OFF to clear the display and stop beeping. Reprogram oven. If fault recurs, record fault number. Press CLEAR/OFF and contact a Service agent <table border="1" data-bbox="927 882 1546 1160"> <thead> <tr> <th>CODE</th> <th>CAUSE</th> </tr> </thead> <tbody> <tr> <td>F-1</td> <td>Shorted keypad</td> </tr> <tr> <td>F-2</td> <td>Door locking system don't operate</td> </tr> <tr> <td>F-3</td> <td>Open oven sensor</td> </tr> <tr> <td>F-4</td> <td>Shorted oven sensor</td> </tr> <tr> <td>F-7</td> <td>No heating</td> </tr> <tr> <td>F-9</td> <td>Oven is too hot</td> </tr> </tbody> </table>	CODE	CAUSE	F-1	Shorted keypad	F-2	Door locking system don't operate	F-3	Open oven sensor	F-4	Shorted oven sensor	F-7	No heating	F-9	Oven is too hot
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F-1	Shorted keypad														
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F-4	Shorted oven sensor														
F-7	No heating														
F-9	Oven is too hot														
Surface units will not maintain a rolling boil or cooking is not fast enough	<ul style="list-style-type: none"> • Improper cookware being used. <ul style="list-style-type: none"> - Use pans which are flat and match the diameter of the surface unit selected. • In some areas, the power (voltage) may be low. <ul style="list-style-type: none"> - Cover pan with a lid until desired heat is obtained. 														
Surface units do not work properly	<ul style="list-style-type: none"> • A fuse in your home may be blown or the circuit breaker tripped. <ul style="list-style-type: none"> - Replace the fuse or reset the circuit breaker. • Cooktop controls improperly set. <ul style="list-style-type: none"> - Check to see the correct control is set for the surface unit you are using. 														
Surface unit stops glowing when changed to a lower setting	<ul style="list-style-type: none"> • This is normal. The unit is still on and hot. 														
Areas of discoloration on the cooktop	<ul style="list-style-type: none"> • Food spillovers not cleaned before next use. <ul style="list-style-type: none"> - See Cleaning the glass cooktop section. • Hot surface on a model with a light-colored cooktop. <ul style="list-style-type: none"> - This is normal. The surface may appear discolored when it is hot. This is temporary and will disappear as the glass cools. 														
Frequent cycling on and off of surface units	<ul style="list-style-type: none"> • This is normal. <ul style="list-style-type: none"> - The element will cycle on and off to maintain the heat setting. 														

English

Español

TROUBLESHOOTING

Problem	Possible cause / Solution
Oven will not work	<ul style="list-style-type: none"> • Plug on range is not completely inserted in the electrical outlet. <ul style="list-style-type: none"> - Make sure electrical plug is plugged into a live, properly grounded outlet. • A fuse in your home may be blown or the circuit breaker tripped. <ul style="list-style-type: none"> - Replace the fuse or reset the circuit breaker. • Oven controls improperly set. <ul style="list-style-type: none"> - See the Using the oven section. • Oven too hot. <ul style="list-style-type: none"> - Allow the oven to cool to below locking temperature.
Appliance does not operate.	<ul style="list-style-type: none"> • Make sure cord is plugged correctly into outlet. Check circuit breakers. • Service wiring is not complete. Contact your appliance Servicer for assistance. • Power outage. Check house lights to be sure. Call your local electric company for service.
Oven control displays PF, HS message.	<ul style="list-style-type: none"> • The PF message will appear whenever there has been a power interruption to the appliance. To clear the PF message press CLEAR/OFF control pad and be sure to reset the clock with the correct time of day. • To clear the HS message press ON/OFF pad.
Oven light does not work.	<ul style="list-style-type: none"> • Replace or tighten bulb. See Changing Oven Light section in this Owner's manual.
Oven smokes excessively during broiling.	<ul style="list-style-type: none"> • Control not set properly. Follow instructions under Setting Oven Controls. • Make sure oven door is opened to broil stop position. • Meat too close to the element. Reposition the rack to provide proper clearance between the meat and the element. Preheat broil element for searing. • Meat not properly prepared. Remove excess fat from meat. Cut remaining fatty edges to prevent curling, but do not cut into lean. • Insert on broiler pan wrong side up and grease not draining. Always place grid on the broiler pan with ribs up and slots down to allow grease to drip into pan. • Grease has built up on oven surfaces. Regular cleaning is necessary when broiling frequently. Old grease or food spatters cause excessive smoking.
Food does not bake or roast properly	<ul style="list-style-type: none"> • Oven controls improperly set. <ul style="list-style-type: none"> - See the using the oven section. • Rack position is incorrect or the rack is not level. <ul style="list-style-type: none"> - See the using the oven section. • Incorrect cookware or cookware of improper size being used. <ul style="list-style-type: none"> - See the using the oven section. • Oven sensor needs to be adjusted. <ul style="list-style-type: none"> - See the adjusting your oven temperature in option section.
Food does not broil properly	<ul style="list-style-type: none"> • Oven controls improperly set. <ul style="list-style-type: none"> - Make sure you press the BROIL pad. • Improper rack position being used. <ul style="list-style-type: none"> - See the Broiling Guide, page 19. • Cookware not suited for broiling. <ul style="list-style-type: none"> - Use the broiling pan and grid that came with your range.

TROUBLESHOOTING

Problem	Possible cause / Solution
Food does not broil properly	<ul style="list-style-type: none"> • Aluminum foil used on the the broiling pan and grid has not been fitted properly and slit as recommended. <ul style="list-style-type: none"> - See the using the oven section. • In some areas the power (voltage) may be low. <ul style="list-style-type: none"> - Preheat the broil element for 10 minutes. - See the Broiling Guide, page 19.
Oven temperature too hot or too cold	<ul style="list-style-type: none"> • Oven Sensor needs to be adjusted. <ul style="list-style-type: none"> - See the adjusting your oven Temperature in option section.
Scratches or abrasions on cooktop surface	<ul style="list-style-type: none"> • Coarse particles such as salt or sand between cooktop and utensils can cause scratches. Be sure cooktop surface and bottoms of utensils are clean before usage. Small scratches do not affect cooking and will become less visible with time. • Cleaning materials not recommended for ceramic-glass cooktop have been used. See Cleaning The Glass Cooktop in the MAINTENANCE section, page 27. • Cookware with rough bottom has been used. Use smooth, flat-bottomed cookware.
Metal marks	<ul style="list-style-type: none"> • Scraping of metal utensils on cooktop surface. Do not slide metal utensils on cooktop surface. Use a ceramic-glass cooktop cleaning creme to remove the marks. See Cleaning The Glass Cooktop in the MAINTENANCE section, page 27.
Brown streaks or specks	<ul style="list-style-type: none"> • Boilovers are cooked onto surface. Use the blade scraper to remove soil. See Cleaning The Glass Cooktop in the MAINTENANC section, page 27.
Areas of discoloration with metallic sheen	<ul style="list-style-type: none"> • Mineral deposits from water and food. Remove using a ceramic-glass cooktop cleaning creme. Use cookware with clean, dry bottoms.
Oven will not self-clean	<ul style="list-style-type: none"> • The oven temperature is too high to set a self-clean operation. <ul style="list-style-type: none"> - Allow the range to cool and reset the controls. • Oven controls improperly set. <ul style="list-style-type: none"> - See the using the self-cleaning oven section. • A Self-Clean cycle cannot be started if Oven Lockout feature is active or radiant surface remains ON.
"Crackling" or "popping" sound	<ul style="list-style-type: none"> • This is the sound of the metal heating and cooling during both the cooking and cleaning functions. <ul style="list-style-type: none"> - This is normal.
Excessive smoking during a self clean cycle	<ul style="list-style-type: none"> • Excessive soil. <ul style="list-style-type: none"> - Press the CLEAR/OFF pad. Open the windows to rid the room of smoke. Wait until the Self Clean Mode is cancelled. Wipe up the excess soil and reset the clean .
Oven door do not open after a self clean cycle	<ul style="list-style-type: none"> • Oven is too hot. <ul style="list-style-type: none"> - Allow the oven to cool below locking temperature.
Oven not clean after a self clean cycle	<ul style="list-style-type: none"> • Oven controls not properly set. <ul style="list-style-type: none"> - See the Self-Clean section, page 24. • Oven was heavily soiled. <ul style="list-style-type: none"> - Clean up heavy spillovers before starting the clean cycle. Heavily soiled ovens may need to self-clean again or for a longer period of time.

English

Español

TROUBLESHOOTING

Problem	Possible cause / Solution
CLEAN flashes in the display	<ul style="list-style-type: none"> • The self-clean cycle has been selected but the door is not closed. - Close the oven door.
DOOR LOCKED light and icon are on when you want to cook	<ul style="list-style-type: none"> • The oven door is locked because the temperature inside the oven has not dropped below the locking temperature. - Press the CLEAR/OFF pad. Allow the oven to cool.
Steam from the vent	<ul style="list-style-type: none"> • When using the convection feature, it is normal to see steam coming out of the oven vent. As the number of racks or amount of food being cooked increases, the amount of visible steam will increase. - This is normal.
Burning or oily odor emitting from the vent	<ul style="list-style-type: none"> • This is normal in a new oven and will disappear in time. - To speed the process, set a self-clean cycle for a minimum of 3 hours. See the Self-Clean section, page 24.
Fan noise	<ul style="list-style-type: none"> • A convection fan may automatically turn on and off. - This is normal.
Oven racks are difficult to slide	<ul style="list-style-type: none"> • The shiny, silver-colored racks were cleaned in a self-clean cycle. - Apply a small amount of vegetable oil to a paper towel and wipe the edges of the oven racks with the paper towel.

LG ELECTRIC OVEN LIMITED WARRANTY – USA

LG Electronics Inc. will repair or replace your product, at LG's option, if it proves to be defective in material or workmanship under normal use, during the warranty period set forth below, effective from the date of original consumer purchase of the product. This limited warranty is good only to the original purchaser of the product and effective only when used in U.S.A.

WARRANTY PERIOD:	HOW SERVICE IS HANDLED:
One Year From the date of the original purchase	Any part of the range which fails due to a defect in materials or workmanship. During this full one-year warranty , LG will also provide, free of charge , all labor and in-home service to replace the defective part.
Five Years From the date of the original purchase	A replacement glass cooktop if it should crack due to thermal shock and crack at the rubber seal between the glass cooktop and the porcelain edge. A replacement radiant surface unit if it should burn out. During this limited additional four-year warranty , you will be responsible for any labor or in-home service.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT ANY IMPLIED WARRANTY IS REQUIRED BY LAW, IT IS LIMITED IN DURATION TO THE EXPRESS WARRANTY PERIOD ABOVE. LG WILL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST REVENUES OR PROFITS, IN CONNECTION WITH THE PRODUCT. SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

THIS LIMITED WARRANTY DOES NOT APPLY TO:

1. Service calls to correct the installation of your appliance, to instruct you how to use your appliance, to replace house fuses or correct house wiring, or to replace owner-accessible light bulbs.
2. Repairs when your appliance is used in other than normal, single-family household use.
3. Pickup and delivery. Your appliance is designed to be repairable in the home.
4. Damage resulting from accident, alteration, misuse, abuse, fire, flood, improper installation, acts of God, or use of products not approved by LG Corporation.
5. Repairs to ceramic glass cooktop or other surfaces if they have not been cared for as recommended in the **Owner's manual**.
6. Repairs to parts or systems resulting from unauthorized modifications made to the appliance.
7. Replacement parts or repair labor costs for units operated outside the united states.
8. Any labor costs during the limited warranty period.

This warranty is extended to the original purchaser and any subsequent owner for products purchased for home use within the USA. In Alaska, the warranty excludes the cost of shipping or service calls to your home.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion or limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from states to states. To know what your legal rights are, consult your local or state consumer affairs or your state's Attorney General.

CUSTOMER ASSISTANCE INFORMATION:

To Prove Warranty Coverage	Retain your Sales Receipt to prove date of purchase. A copy of your Sales Receipt must be submitted at the time warranty service is provided.
To Obtain Nearest Authorized Service Center or Sales Dealer, or to Obtain Product, Customer, or Service Assistance	Call 1-800-243-0000 (Phone answered 24 hours - 365 days a year) and choose the appropriate prompt from the menu; or visit our website at: http://us.lgservice.com .