

Introducing your new range

Overview

01 Oven control panel

02 Glass surface

03 Oven door

04 Storage drawer

05 Surface control knobs*

06 Self/steam clean latch

07 Automatic oven light switch

08 Oven light*

09 Convection fan

10 Shelf position

11 Gasket

What's included with your range

NOTE: If you need an accessory marked with a *, you can buy it from the Samsung Contact Center

Before you begin

Clean the oven thoroughly before using it for the first time. Then, remove the accessories, set the oven to bake, and then run the oven at 400 °F for 1 hour. There will be a distinctive odor. This is normal.

Ensure your kitchen is well ventilated during this conditioning period.

Energy saving tips

- During cooking, the oven door should remain closed except when you turn food over. Do not open the door frequently during cooking to maintain the oven temperature and to save energy.
- If cooking time is more than 30 minutes, you can switch the oven off 5-10 minutes before the end of the cooking time to save energy. The residual heat will complete the cooking process.

- To save energy and reduce the time needed for reheating the oven, plan oven use to avoid turning the oven off between cooking one item and the next.
- Whenever possible, cook more than one item at a time.

Cooktop cooking

About cooktop cooking

BEFORE COOKING

- 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.
- Turn the surface units on only after placing cookware on them.
- Do not store heavy items above the cooktop surface. They could fall and damage it.

DURING COOKING

- Do not place aluminum foil or plastic items, such as salt and pepper shakers, spoon holders, or plastic wrappings on the range when it is in use. The hot air from the vent could melt plastics or ignite flammable items.
- Make sure the correct surface unit is turned on.
- 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 while using a high heat setting. Boilovers cause smoking and greasy spillovers that may catch on fire.
- 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.
- The cooling fan can be operated during cooktop cooking.

AFTER COOKING

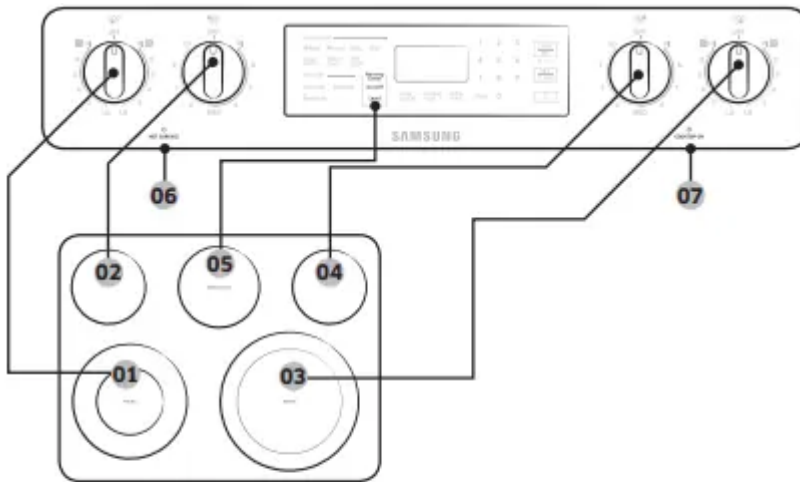
- Do not touch the surface units until they have cooled down.
- The surface may still be hot and burns may occur if you touch the glass surface before it has cooled down sufficiently.
- Immediately clean spills on the cooking area to prevent a tough cleaning chore later.
- If cabinet storage is provided directly above the cooking surface, make sure that the items 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.

About the radiant surface elements

The temperature rises gradually and evenly. As the temperature rises, the radiant element will glow red. To maintain the selected setting, the element will cycle on and off. The heating element retains enough heat to provide a uniform and consistent heat during the off cycle. For efficient cooking, turn off the element several minutes before cooking is complete. This will allow residual heat to complete the cooking process

Location of the radiant surface elements and controls:

The radiant control knobs operate the radiant surface elements on the cooktop as shown below.



01 Left Front: 6"/9", 3000 W	02 Left Rear: 6", 1200 W	03 Right Front: 9"/12", 3000 W
04 Right Rear: 6", 1200 W	05 Warming Center: 100 W	06 Hot surface indicator
07 Cooktop on indicator		

NOTE: The knob illumination around the knob turns on when the knob is turned on.

Hot surface indicator

- Comes on when the unit is turned on or hot to the touch.
- Stays on even after the unit is turned off.
- Glows until the unit is cooled to approximately 150 °F.

Cooking areas

- The cooking areas on your range are identified by permanent circles on the glass cooking surface. For the most efficient cooking, fit the pan size to the element size.
- Pans should not extend more than ½" to 1" beyond the cooking area.
- When a control is turned on, you can see a glow through the glass cooking surface. The element will cycle on and off to maintain the preset heat setting, even at high settings.

- For more information on selecting proper types of cookware, refer to the section "Using the proper cookware".

How to set the appliance for surface cooking

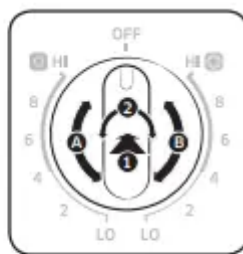
CAUTION

- The surface elements may be hot even when off and burns can occur. Do not touch the surface elements until they have cooled down sufficiently.
- At high or medium-high settings, never leave food unattended. Boilovers cause smoking and greasy spillovers may catch on fire.
- Be sure you turn the control knob to OFF when you finish cooking

Surface unit control knob



Single
(Left rear, Right rear)



Dual
(Left front, Right front)

1. Push the knob in.
2. Turn in either direction to the setting you want.
 - Position A : Single burner
 - Position B : Dual burner

Recommended settings

(SETTING - TYPE OF COOKING)

- HIGH - Starting most foods, bringing water to a boil, pan broiling
- MEDIUM HIGH - Continuing a rapid boil, frying, deep fat frying
- MEDIUM - Maintaining a slow boil, thickening sauces and gravies, steaming vegetables
- MEDIUM LOW - Keeping foods cooking, poaching, stewing
- LOW - Keeping foods warm, melting, simmering

Using the warming center

The warming center, located in the back center of the glass surface, will keep hot, cooked food at serving temperature.

NOTE: The surface warmer will not glow red like the cooking elements

CAUTION:

- Do not warm food on the warming center for more than two hours.
 - Use only cookware and dishes recommended as safe for oven and cooktop use.
 - Always use potholders or oven mitts when removing food from the warming center as cookware and plates will be hot.
 - When warming pastries and breads, use covers that 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 off.
 - Food should be kept in its container and covered with a lid or aluminum foil to maintain food quality.
 - Always start with hot food. Eating uncooked or cold food placed on the warming center could result in illness.
1. To turn the warming center on, press the Warming Center On/Off pad.
 2. Select the power setting you want. Press the Warming Center Level pad once for Low, twice for Medium, or three times for High.
 3. To turn the warming center off, press the Warming Center On/Off pad.

Recommended settings

(LEVEL - TYPE OF FOOD)

- LO - Breads/pastries, casseroles, gravies, eggs
- MED - Dinner plate with foods, soups (cream), vegetables, sauces, stews, meats
- HI - Fried foods, soups (liquid), hot beverages

Using the proper cookware

Using the right cookware can prevent many problems, such as uneven cooking or extended cooking times. Using the proper pots and pans will reduce cooking times and cook food more evenly.

Check for flatness by rotating a ruler across the bottom of the cookware.

Flat bottom and straight sides.

- Tight fitting lids.
- Weight of handle does not tilt pan.
- Pan is well balanced.
- Pan size matches the amount of food to be prepared and the size of the surface element.

- Made of a material that conducts heat well.

Always match pot diameter to element surface diameter.

Choosing the proper cookware

What your cookware is made of determines how evenly and quickly heat is transferred from the surface element to the pan bottom.

- **ALUMINUM** - Excellent heat conductor. Some types of food will cause the aluminum to darken. (Anodized aluminum cookware resists staining & pitting). If aluminum pans are slid across the ceramic cooktop, they may leave metal marks that resemble scratches. Remove these marks as soon as the cooktop cools down.
- **COPPER** - Excellent heat conductor but discolors easily. May leave metal marks on ceramic glass (to remove, see above.)
- **STAINLESS STEEL** - Slow heat conductor with uneven cooking results. Is durable, easy to clean, and resists staining.
- **CAST IRON** - A poor conductor; retains heat very well. Cooks evenly once cooking temperature is reached. Not recommended for use on ceramic cooktops.
- **ENAMELWARE** - Heating characteristics will vary depending on the base material. Porcelain enamel coating must be smooth to avoid scratching ceramic cooktops.
- **GLASS** - Slow heat conductor. Not recommended for ceramic cooktop surfaces because it may scratch the surface.

Protecting the smoothtop

Cleaning

- Clean the cooktop before using it for the first time.
- Clean your cooktop daily or after each use. This will keep your cooktop looking good and can prevent damage.
- If a spillover occurs while you are cooking, immediately clean the spill from the cooking area while it is hot to prevent a tough cleaning chore later. Using extreme care, wipe the 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 a glass-ceramic surface.

Preventing marks and scratches

- Do not use glass cookware. It may scratch the cooktop.

- Do not place a trivet or wok ring between the cooktop and the pan. These items can mark or scratch the cooktop.
- Make sure the cooktop and the pan bottom are clean.
- Do not slide metal pans across the cooktop.

Preventing stains

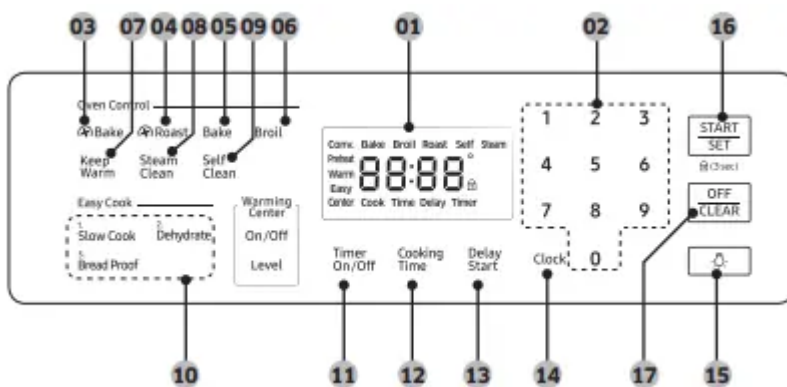
- Do not use a soiled dish cloth or sponge to clean the cooktop surface. A film will remain, which may cause stains on the cooking surface after the area is heated.
- Continuously cooking on a soiled surface can result in a permanent stain.

Preventing other damage

- Do not allow plastic, sugar, or foods with high sugar content to melt onto the hot cooktop. Should this happen, clean immediately.
- Do not let a pan boil dry as this will damage the cooktop and the pan.
- Do not use the cooktop as a work surface or cutting board.
- Do not cook food directly on the cooktop. Always use the proper cookware.

Operating the oven

The oven control panel



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 user manual.

01 DISPLAY: Shows the time of day, oven temperature, whether the oven is in the bake, broil or self-cleaning mode, and the time set for the timer or automatic oven operations.

02 NUMBER PAD: 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.

03 CONVECTION BAKE: Use to select the Convection bake function of the oven.

04 CONVECTION ROAST: Use to select the Convection roast function of the oven.

05 BAKE: Use to select the bake function of the oven.

06 BROIL: Use to select the broil function of the oven.

07 KEEP WARM: Use to select the keep warm function of the oven to keep cooked foods warm.

08 STEAM CLEAN: Use to select the steam cleaning function of the oven.

09 SELF CLEAN: Use to select the Self-cleaning function of the oven.

10 EASY COOK: Use to recall the easy cook recipe setting of the oven.

11 TIMER ON/OFF: Use to set or cancel the minute timer. The minute timer does not start or stop cooking.

12 COOKING TIME: Press, and then use the number pad to set the amount of time you want your food to cook. The oven will shut off when the cooking time has run out.

13 DELAY START: Press to set the oven to start and stop automatically at a time you set. (Bake, Conv.bake/Roast, Cooking Time, and self clean only.)

14 CLOCK: Use to set the time of day.

15 LAMP: Press to turn the oven light on or off.

16 START/SET: Press to start any cooking or cleaning function in the oven.

17 OFF/CLEAR: Press to cancel all oven operations except the clock and timer.

Setting the clock

The clock must be set to the correct time of day for the automatic oven timing functions to work properly.

- The time of day cannot be changed during a timed cooking, a delay-timed cooking, or a self-cleaning cycle.
- You can choose between a 12-hour or 24-hour display. The default is 12-hour.

How to set the clock

1. Start the setup. Press Clock.
2. Enter the current time in hours and minutes on the number pad, eg. 1, 3, 0, for 1:30.
3. Press Clock or START/SET to save the changes.

Setting the kitchen timer

The kitchen timer serves as an extra timer that will beep when the set time has elapsed. It does not start or stop cooking functions. You can use the kitchen timer with any of the other oven functions.

How to set the timer

1. Press Timer On/Off.
2. Enter the amount of time you want. Enter the amount of time you want using the number pad, eg. 1, 5. The timer can be set for any amount of time from 1 minute to 9 hours and 59 minutes. If you make a mistake, press Timer On/Off and enter the amount of time again.
3. Press Timer On/Off to start the timer.
4. When the set time has elapsed, the oven will beep and the display will show "End" until you press Timer On/Off pad. You can cancel the timer at any time by pressing Timer On/Off

Timed cooking

In timed cooking, the oven turns on immediately and cooks for the length of time you select. At the end of the cooking time, the oven turns off automatically.

- You can use the timed cooking feature only with another cooking operation (bake, convection bake, convection roast, slow cook, dehydrate, or favorite cook).

How to set the oven for timed cooking

1. Press the pad for the cooking operation you want, eg. Bake. The default temperature is 350 °F.
2. Enter the temperature you want, eg. 375 °F, using the number pad.
3. Press Cook Time.
4. Enter the cooking time you want, eg. 45 min, using the number pad.

You can set the cooking time for any amount of time from 1 minute to 9 hours and 59 minutes.

5. Press START/SET to begin cooking. The temperature display will start to change once the oven temperature reaches 175 °F.

The oven will continue to cook until the set amount of time has elapsed, then turn off automatically unless you set the keep warm feature. (Refer to the section on the keep warm feature .)

6. You can cancel a cook time at any time by setting cook time 0 min. (Press Cook Time -> enter 0 -> press START/SET)

When the timed cooking is done, the range will beep several times.

CAUTION

Use caution with the Timed cooking or Delay start features. Use these features to cook 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.

Delay Start

In a delay timed cooking, the oven's timer turns the oven on and off at times you select in advance.

- You can use the delay start feature only with another cooking operation (bake, convection bake, convection roast, slow cook, dehydrate, or favorite cook).
- You can set the oven for a delay start before setting other cooking operations.
- The clock must be set to the current time.

How to set the oven for delay start

1. Position the oven rack(s) and place the food in the oven.
2. Press the pad for the cooking operation you want, eg. Bake. The default temperature is 350 °F.
3. Use the number pad to enter the temperature you want, eg. 375 °F.
4. Press Cook Time.
5. Enter the cooking time you want, eg. 45 min, using the number pad. You can set the cooking time for any amount of time from 1 minute to 9 hours and 59 minutes.
6. Press Delay Start.
7. Enter the time you want the oven to turn on, eg. 4:30, using the number pad. You can change AM/PM to press Delay Start.
8. Press START/SET. At the set time, a short beep will sound. The oven will begin to bake

Turning the oven light on and off

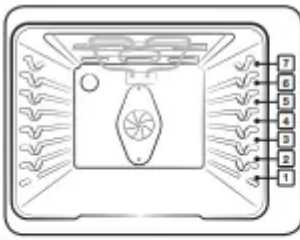
- The oven light turns on automatically when the door is opened.
- The oven light turns off automatically when the door is closed.
- You can turn the oven light on and off manually by pressing the pad.

Minimum and maximum settings

All of the features listed in the table below have minimum and maximum time or temperature settings. A beep will sound each time a pad on the control panel is pressed and the entry is accepted. An error tone will sound in the form of a long beep if the entered temperature or time is below the minimum or above the maximum setting for the feature

Using the oven racks

Oven rack positions



Recommended rack position for cooking

Type of food	Rack Position
Broiling hamburgers	7
Broiling meats or Small cuts of poultry, Fish	5-7
Bundt caked, Pound cakes, Frozen pies, Casseroles	4 or 3
Angel food cakes, Small roasts	2
Turkey, Large roasts, Hams, Fresh pizza	1

• This table is for reference only.

Rack and Pan placement

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

When baking on a single oven rack, place the oven rack in position 3 or 4. See the figure.

When baking cakes and cookies on multiple racks, place the oven racks in positions 3 and 5. See the figure on the left.

Using Multiple Oven Racks

Before using the racks

The oven has two racks.

Each rack has stops that need to be placed correctly on the supports. These stops will keep the rack from coming completely out.

REMOVING THE RACKS

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

REPLACING THE RACKS

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

CAUTION

- Do not cover a rack with aluminum foil or place aluminum foil on the oven bottom. This will hamper heat circulation, resulting in poor baking, and may damage the oven bottom.
- Arrange the oven racks only when the oven is cool.

Baking

The oven can be programmed to bake at any temperature from 175 °F to 550 °F. Baking temperature and time will vary depending on the ingredients and the size and shape of the baking pan used. Dark or nonstick coatings may cook faster with more browning.

How to set the temperature

1. Press Bake. The default temperature is 350 °F.
2. Enter the temperature you want on the number pad, eg. 3, 7, 5.
3. Press START/SET. The temperature display will start to change once the oven temperature reaches 175 °F.
4. If you want to cancel baking or if baking has finished, press OVEN OFF.

Place food in the oven after preheating if the recipe calls for it. Preheating is very important for good results when baking cakes, cookies, pastry, and breads. After the oven has reached the desired temperature, the range will beep several times.

How to adjust the temperature while cooking

1. Press Temp.. The display will show the present temperature, eg. 375 °F.
2. Enter the temperature you want, eg. 425 °F, using the number pad.
3. Complete the entry by pressing START/SET.

Convection baking

By using the convection bake feature, you will be able to cook faster. You can program the oven for convection baking at any temperature between 175 °F and 550 °F. 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 baking. 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 baking

The amount of time you save will vary depending on the amount and type of food you are cooking. When baking cookies or biscuits, you should use pans with no sides or very low sides to allow the heated air to circulate around the food. Using a pan with a dark finish will allow faster cooking times. When using convection baking with a single rack, place the oven rack in position 3 or 4. If cooking on multiple racks, place the oven racks in position 3 and 5. When baking a cake, using the bake mode will produce better results

How to set the oven for convection baking

1. Start the convection bake mode.
Press Bake. The default temperature is 350 °F.
2. Enter the temperature you want, eg. 400 °F, using the number pad.
3. Press START/SET to begin convection baking.

Convection Bake and the adjusted oven temperature, eg. 400 °F, will appear in the display for 2 seconds. The temperature display will start to change once the oven temperature reaches 175 °F. The range will beep several times when the oven reaches the adjusted oven temperature.

4. To turn off or cancel convection bake, press OVEN OFF.

NOTE The convection oven fan shuts off when the oven door is opened. DO NOT leave the door open for long periods of time while using convection cooking or you may shorten the life of the convection heating element.

NOTE

- For performance reasons, the convection fan may turn on or off during cooking
- If you are using an oven thermometer in the oven cavity, the temperature registered by the thermometer may differ from the actual set oven temperature

Convection roasting

Convection roasting is good for cooking large tender cuts of meat, uncovered. Heat comes from the top heating element. The convection fan circulates the heated air evenly over and around the food. Meat and poultry are browned on all sides as if they were cooked on a rotisserie. The heated air seals in juices quickly for a moist and tender product while, at the same time, creating a rich golden brown exterior

How to set the oven for convection roasting

1. Press Roast. The default temperature is 350 °F.
2. Enter the temperature you want, eg. 400 °F, using the number pad.
3. Press START/SET to begin convection roasting.

Convection Roast and the adjusted oven temperature, eg. 400 °F, will appear in the display for 2 seconds. The temperature display will start to change once the oven temperature reaches 175 °F. The range will beep several times when the oven reaches the adjusted oven temperature.

4. To turn off or cancel convection roast, press OVEN OFF.

NOTE The convection oven fan shuts off when the oven door is opened. DO NOT leave the door open for long periods of time while using convection cooking or you may shorten the life of the convection heating element.

Broiling

Broiling is a method of cooking tender cuts of meat by direct heat under the broil element of the oven. Broil mode is best for meats, fish, and poultry up to 1" thick. The high heat cooks quickly and gives a rich, brown outer appearance.

Broil stop position

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

CAUTION Should an oven fire occur, close the oven door and turn the oven off. If the fire continues, throw baking soda on the fire or use a foam-type fire extinguisher. Do not put water or flour on the fire. Flour can explode and water can cause a grease fire to spread and cause personal injury.

How to set the oven for broiling

1. Use Lo to cook foods such as poultry or thick cuts of meat thoroughly without over-browning them.
2. Press START/SET. Broil one side until the food is browned. Turn it over, and then broil the other side.
3. Press OVEN OFF once you have finished cooking or if you want to cancel broiling.

Broiling Recommendation Guide

The size, weight, thickness, starting temperature, and your doneness preference will affect broiling times. This guide is based on meats at refrigerator temperature. Always use a broiler pan and its grid when broiling. Always preheat the oven for 5 minutes before broiling

Using the easy cook feature

Slow Cook

The Slow Cook feature cooks food more slowly at lower oven temperatures. The extended cooking times allow better distribution of flavors in many recipes. This feature is ideal for roasting beef, pork & poultry. Slow cooking meats may cause the exterior of meats to become dark but not burnt. This is normal.

1. Press Slow Cook once for HI or twice for LO.
2. Press START/SET.

NOTE

Use only 1 rack and place the rack in position 1 or 2 for the best results. Preheating the oven is not necessary.

Bread Proof

The Bread Proof function automatically provides the optimum temperature for the bread proof process, and therefore does not have a temperature adjustment.

If you press Bread Proof when the oven temperature is above 100 °F, Hot will appear in the display. Because these functions produce the best results when started while the oven is cool, we recommend that you wait until the oven has cooled down and Hot disappears from the display.

1. Press Bread Proof.

2. Press START/SET.
3. Press OFF/CLEAR at any time to turn off the Bread Proof feature.

Dehydrate

Dehydrate dries food or removes moisture from food via heat circulation. After drying the food, keep it in a cool and dry place. For fruit, adding lemon (or pineapple) juice or sprinkling sugar on the fruit will help fruit retain sweetness.

1. Press Dehydrate. The default temperature is 150 °F.
2. Enter the temperature you want on number pad. (100 °F - 175 °F)
3. Press START/SET

Using the keep warm feature

The keep warm feature will keep cooked food warm for serving up to 3 hours after cooking has finished. After 3 hours, the feature will shut the oven off automatically. The feature may be used without any other cooking operations or may be set to activate after a timed or delay timed cooking operation. You should not use this feature to reheat cold foods.

How to use the keep warm feature

1. Press Keep Warm.
2. Press START/SET.
3. Press OFF/CLEAR at any time to turn the feature off.

How to set the oven to activate the keep warm mode after a timed cooking

1. Set up the oven for Timed cooking. (Refer to the section on the time cooking feature.)
2. Press Keep Warm before pressing START/SET to begin cooking.
3. Press OFF/CLEA at any time to turn the feature off

Using the sabbath feature

The Sabbath feature

(For use on the Jewish Sabbath and Holidays) For further assistance, guidelines for proper usage, and a complete list of models with the Sabbath feature, please visit the web

You can use the Sabbath feature with baking only. The oven temperature may be set higher or lower after setting the Sabbath feature. (The oven temperature adjustment feature should be used only during Jewish holidays.) The display, however, will not change and tones will not sound when a change occurs. Once the oven is properly set for baking with the Sabbath feature active, the oven will remain continuously on until the Sabbath feature is cancelled. This will override the factory preset 12 hour energy saving feature. If the oven light is needed during the Sabbath, press before activating the Sabbath feature. Once the oven light is turned on and the Sabbath feature is

active, the oven light will remain on until the Sabbath feature is turned off. If the oven light needs to be off, be sure to turn the oven light off before activating the Sabbath feature

How to use the Sabbath feature

1. Press Bake. The default temperature is 350 °F.
2. Enter the temperature you want, eg. 375 °F, by using the number pad.
3. Press START/SET. The temperature display will start to change once the oven temperature reaches 175 °F.
4. Press Bake and 1 at the same time for 3 seconds. The display will show SAb. Once SAb appears in the display, the oven will not beep or display any further changes. You may change the oven temperature once baking has started. Remember that the oven will not beep or display any further changes once the Sabbath feature is engaged.
5. You can turn the oven off at any time by pressing OFF/CLEAR. This will turn only the oven off. If you want to deactivate the Sabbath feature, hold down Bake and 1 at the same time for 3 seconds. Sab will disappear from the display.

Do not attempt to activate any other program feature except BAKE while the Sabbath feature is active. ONLY the following key pads will function correctly with the Sabbath feature on: NUMBER, BAKE, START/SET and OFF/ CLEAR. ALL OTHER KEYPADS should not be used once the Sabbath feature is activated

Extra features

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 ± 35 °F (± 19 °C).

How to adjust the oven temperature

1. Press Broil and 1 at the same time for 3 seconds. The display will show AdJ 0.
2. Enter the adjustment you want, eg. 20 °F, using the number pad. You can adjust the temperature so that it is lower than the factory setting by pressing Broil.
3. Press START/SET.

NOTE This adjustment will not affect the broiling or the self-cleaning temperatures. The adjustment will be retained in memory after a power failure.

Convection auto conversion feature

When you use the auto conversion feature, the convection auto conversion feature will automatically convert entered regular baking temperatures to convection baking temperatures. If this feature is activated, the display will show the actual converted (reduced) temperature. For example, if you enter a regular recipe temperature of 350 °F and press START/SET, the display will show the converted temperature of 325 °F.

How to disable or enable the auto conversion feature

1. Press Broil and 3 at the same time for 3 seconds. The display will show Con On (enabled) or Con OFF (disabled). The default setting is Con OFF.
2. Press 0 to select Con On or Con OFF. Pressing 0 changes the mode between Con On and Con OFF.
3. Press START/SET.

Sound on/off

By using this feature, you can set the oven controls to operate silently.

How to turn the sound on or off

1. Press Broil and 6 at the same time for 3 seconds. The display will show Snd On (sound on) or Snd OFF (sound off).
2. The default setting is Snd On. Press 0 to select Snd OFF or Snd On. Pressing 0 changes the mode between Snd On and Snd OFF.
3. Press START/SET.

Demo mode

This option is for use by retail establishments for display purposes only. (The heating element does not operate.)

How to enable or disable the demo mode

1. Press Broil and 7.
2. Pressing 0 changes the mode between On and OFF.
3. Press START/SET

Control lockout

This feature lets you lock the buttons on the touch pad so they cannot be activated accidentally.

How to activate the control lockout feature

- Press START/SET for 3 seconds. Loc and the Loc icon appear in the display as well as the current time. All functions must be cancelled before control lockout is activated. This function is available when the oven temperature is under 400 °F.

How to unlock the controls

- Press START/SET for 3 seconds. Loc and the lock icon will disappear from the display.

Maintaining your appliance

Self-cleaning

This self-cleaning oven uses high temperatures (well above cooking temperatures) to burn off leftover grease and residue completely or reduce them to a finely powdered ash that you can wipe away with a damp cloth.

CAUTION:

- During the self-cleaning cycle, the outside of the range will become very hot to the touch. Do not leave small children unattended near the appliance.
- Some birds are extremely sensitive to the fumes given off during the selfcleaning 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. Doing so will result in poor heat distribution, poor baking results, and cause permanent damage to the oven interior. Aluminum foil will melt and adhere 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 is complete. 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.

Before a self-cleaning cycle

- We recommend venting your kitchen with an open window or using a ventilation fan or hood during the selfcleaning cycle.
- Remove the wire rack, broil pan, broil pan insert, all cookware, and any aluminum foil from the oven.
- Wipe up debris from the oven bottom. (Fig.1)
- The silver-colored oven racks can be self-cleaned, but they will darken, lose their luster, and become hard to slide.
- Residue 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, have it replaced. (Fig.2)

- Make sure the oven light bulb cover is in place and the oven light is off.

How to run a self-cleaning cycle

1. Select the length of time for the self-cleaning operation, eg. 3 hours. Press Self Clean once for a 3 hour clean time, twice for a 5 hour clean time, or 3 times for a 2 hour clean time. The default setting is 3 hours.
2. Press START/SET to start the self-cleaning cycle. The motor-driven door lock will engage automatically.

NOTE

- You will not be able to start a self-cleaning cycle if the control lockout feature is activated or if the oven's temperature is too hot.
- The oven door locks automatically. The display will show the clean time remaining. You cannot open the oven door until the temperature drops to a safe/cool temperature.
- The self-cleaning feature will not operate when the warming center is on.

3. When the self-cleaning cycle is done, End will appear in the display and the range will beep 6 times.

How to delay the start of self-cleaning

1. Press Self Clean. Select the desired self-clean time by pressing Self Clean.
2. Press Delay Start.
3. Enter the time you want the clean cycle to start.
4. Press START/SET. The display will show Delay, Self clean, and the Lock icon. The motor-driven door lock will engage automatically.
5. The Self-Cleaning cycle will turn on automatically at the set time

How to turn off the self-cleaning feature

You may find it necessary to stop or interrupt a self-cleaning cycle due to smoke in the oven.

1. Press OFF/CLEAR
2. You will be able to open the oven door once the oven has cooled down for approximately 1 hour.

After a self-cleaning cycle

- You may notice some white ash in the oven. Wipe it up with a damp cloth after the oven cools. (If white spots remain, remove them with a soap-filled steel wool pad and rinse thoroughly with a vinegar and water mixture).
- If the oven is not clean after one cycle, repeat the cycle.
- You cannot set the oven for cooking until the oven is cool enough for the door to unlock.

Steam-cleaning

How to set the oven for steam-cleaning:

For light cleaning, the steam-cleaning function saves time and energy. For heavier duty cleaning, use the self-cleaning function.

1. Remove all accessories from the oven.
2. Pour approximately 10 oz. (300 ml) of water onto the bottom of the empty oven and then close the oven door. Use normal water only, not distilled water.
3. Press Steam Clean.
4. Tap START/SET. The oven door is locked automatically and the oven begins to heat up. When the operation is complete, the display will blink and a beep will sound.
5. Press OFF/.
6. Clean the oven's interior. There will be a significant amount of water remaining on the bottom of the oven after a steam-cleaning cycle. Remove the residual water with a sponge or soft dry cloth

After a steam-cleaning cycle

- Take care when opening the door before a steam-cleaning procedure has ended. The water on the bottom is hot.
- Open the oven door and remove the remaining water with a sponge. Do not leave the residual water in the oven for any length of time. Wipe the oven clean and dry with a soft cloth. Do not forget to wipe under the oven door seal.
- Use a detergent-soaked sponge, a soft brush, or a nylon scrubber to wipe the oven interior. Remove stubborn residue with a nylon scourer. You can remove lime deposits with a cloth soaked in vinegar.
- If the oven remains dirty, you can repeat the procedure once the oven has cooled.
- For heavy residue, such as grease left over from roasting, we recommend that you rub detergent into the residue before activating the steam-cleaning function.
- After cleaning, leave the oven door ajar at a 15° angle to allow the interior enamel surface to dry thoroughly

Care and cleaning of the 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.

Cleaning painted parts and decorative trim

- For general cleaning, use a cloth with hot, soapy water.
- For more difficult residue and built-up grease, apply a liquid detergent directly onto the area and leave for 30 to 60 minutes. Wipe with a damp cloth and dry. Do not use abrasive cleaners on any of these surfaces. They can scratch.

Cleaning stainless steel surfaces

1. Shake the bottle of Stainless Steel Appliance Cleaner or Polish 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

Oven racks

If the racks are left in the oven during a self-cleaning cycle, their color will turn slightly blue and the finish will be dull. After the self-cleaning 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 help the racks glide more easily on their tracks.

NOTE

- Do not clean in a dishwasher.
- If the rack becomes hard to remove or replace, lightly wipe the oven rack guides with cooking oil. Do not wipe cooking oil on the slides.
- If the rack becomes difficult to slide, the rack may need to be lubricated using a graphite lubricant.

Oven door

- Use soap and 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.

Care and cleaning of the glass cooktop

Normal daily use cleaning :

Use only a ceramic cooktop cleaner. Other creams may not be as effective. By following these steps, you can maintain and protect the surface of your glass cooktop.

1. Before using the cooktop for the first time, clean it with a ceramic cooktop cleaner. This helps protect the top and makes cleanup easier.
2. Daily use of a ceramic cooktop 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 a 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.

Removing 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 a 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 by applying ceramic cooktop cleaner with a paper towel.

Removing heavy, burned-on residue

1. Allow the cooktop to cool.
2. Use a 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 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 a cleaning pad to remove any remaining residue. (Do not scrape the seal.)
4. For additional protection, after all residue has been removed, polish the entire surface by applying ceramic cooktop cleaner with a paper towel.

Removing metal marks and scratches

1. Be careful not to slide pots and pans across your cooktop. It will leave marks on the cooktop surface. You can remove these marks by applying ceramic cooktop cleaner with a 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. You should remove this discoloration immediately or it may become permanent.

Cleaning the cooktop seal

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

Potential for permanent damage to the glass surface

- Sugary spillovers (such as jellies, fudge, candy, syrups) or melted plastics can cause pitting of the surface of your cooktop. This is not covered under the warranty. You should clean the spill while it is still hot. Take special care when removing hot substances. Refer to the section below.
- When using a scraper, be sure it is new and the razor blade is still sharp. Do not use a dull or nicked blade.

Cleaning sugary spills and melted plastic

1. Turn off all surface units. Remove hot pans.
2. Wearing an oven mitt, use a single-edge razor blade scraper to move the spill to a cool area of the cooktop. 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.

Removing and reinstalling the oven door

How to remove the door

CAUTION

- The door is very heavy. Be careful when removing and lifting the door. Do not lift the door by the handle.
- Turn the power OFF before removing the door

1. Open the door completely.
2. Pull the hinge locks down toward the door frame to the unlocked position.
3. Firmly grasp both sides of the door at the top.
4. Close the door to the door removal position, which is approximately 5 degrees from vertical (Fig. 1)
5. Lift door up and out until the hinge arm is clear of the slot. (Fig.2)

How to replace the door

1. Firmly grasp both sides of the door at the top.
2. With the door at the same angle as the removal position, slide the indentation of the hinge arm into the bottom edge of the hinge slot. The notch in the hinge arm must be fully inserted into the bottom of the slot.

3. Open the door fully. If the door will not open fully, the indentation is not inserted correctly in the bottom edge of the slot.
4. Push the hinge locks up against the front frame of the oven cavity to the locked position.
5. Close the oven door.

Removing and reinstalling the storage drawer

How to remove the storage drawer

1. Pull the drawer out until it stops.
2. Tilt the front of the drawer and pull out it.

How to replace the storage drawer

1. Put the left side of the drawer over the left hook and the right side over the right hook.
2. Push the drawer until it stops

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 the pad to turn it on or off. It will not work during a self-cleaning cycle.

1. Make sure the oven and the bulb are cool.
2. Unplug the range or disconnect the power.
3. Turn the glass bulb cover in the back of the oven counterclockwise to remove.
4. Turn the bulb counterclockwise to remove it from its socket.
5. Insert a new 40 watt appliance bulb, and then turn it clockwise to tighten. Replace the bulb cover by turning clockwise.
6. Plug in the range or reconnect the power.

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

Troubleshooting

Installation

The range is not level.

- The appliance has been installed improperly.
 - Place the oven rack in the center of the oven. Place a level on the oven rack. Adjust the leveling legs at the base of the range until the oven rack is level.

- Insure the floor is level and strong and stable enough to adequately support the range.
- The floor is sagging or sloping.
 - Contact a carpenter to correct the situation.
- The kitchen cabinets are not properly aligned and make the range appear to be not level.
 - Insure the cabinets are square and provide sufficient room for installation.

The appliance must be accessed for servicing and cannot be moved easily.

- The kitchen cabinets are not square and too close to the appliance.
 - Contact a builder or installer to make the appliance accessible.
- Carpet is interfering with movement of the range.
 - Provide sufficient space so the range can be lifted over the carpet.

CONTROL DISPLAY

The display goes blank.

- A fuse in your home may be blown or the circuit breaker tripped.
 - Replace the fuse or reset the circuit breaker.

The display flashes.

- There was a power failure.
 - Reset the clock.

COOKTOP

The surface units will not maintain a rolling boil or will not cook fast enough.

- You may be using inappropriate cookware.
 - Use pans that are flat and match the diameter of the surface unit selected.
- In some areas, the power (voltage) may be low.
 - Cover the pan with a lid until the desired heat is obtained.

The surface units will not turn on.

- A fuse in your home may be blown or a circuit breaker may have tripped.
 - Replace the fuse or reset the circuit breaker.
- The cooktop controls are set improperly.
 - Check if the correct control is set for the surface unit you are using.

Areas of discoloration on the cooktop.

- Food spillover was not cleaned.
 - Refer to the section on the care and cleaning of the glass cooktop.
- The surface is hot and the model features a lightcolored cooktop.
 - This is normal. The surface may appear discolored when it is hot. This is temporary and will disappear as the glass cools.

The surface unit frequently cycles on and off.

- The element will cycle on and off to maintain the power setting.
 - This is normal operation, and not a system failure. Use the range as usual.

The surface unit stops glowing when changed to a lower setting.

- This is normal. The unit is still on and hot.

Scratches or abrasions on the cooktop surface.

- The cooktop is being cleaned improperly.
 - Scratches are not removable. Tiny scratches will become less visible in time as a result of cleaning. Use ceramic glass top cleaning cream. Do not use chemical or corrosive agents. These agents may damage the surface of the product.
- Cookware with rough bottoms was used on the cooktop or there were coarse particles (e.g., salt or sand) present between the cookware and the surface of the cooktop.
- Cookware has been slid across the cooktop surface.
 - To avoid scratches, follow the recommended cleaning procedures. Make sure cookware bottoms are clean before use, and use cookware with smooth bottoms

Brown streaks or specks.

- Boilovers have been cooked onto the surface.
 - Wait until the surface cools down. Then, use a single-edge razor-blade scraper at approximately a 45° angle against the glass surface to remove the soil.
 - See the section on the care and cleaning of the glass cooktop.

Areas of discoloration with metallic sheen.

- Mineral deposits from water and food have been left on the surface of the cooktop.
 - Remove using a ceramic-glass cooktop cleaning cream.
 - Use cookware with clean, dry bottoms. Clean the cooktop with a ceramic cleaning agent regularly every week.

"Cracking" or "popping" sound.

- This is the sound of the metal heating and cooling during both the cooking and self-cleaning functions.
 - This is normal operation, and not a system failure. Use the range as usual.

OVEN

The oven will not turn on.

- The range is not completely plugged into the electrical outlet.
 - Make sure the electrical plug is inserted into a live, properly grounded outlet.
- A fuse in your home may be blown or a circuit breaker may have tripped.
 - Replace the fuse or reset the circuit breaker.
- The oven controls have been set improperly.
 - See the chapter on operating the oven starting.
- The oven is too hot.
 - Allow the oven to cool.
- Incomplete service wiring.
 - Call for service.
- Power outage.
 - Check to see if the house lights will turn on. If necessary, call your local electric company for service.

The oven light will not turn on.

- The light bulb is loose or defective.
 - Tighten or replace the bulb.
- The switch operating the light is broken.
 - Call for service.

Oven smokes excessively during broiling.

- The control has not been set properly.
 - Refer to the section on setting oven controls.
- The meat has been placed too close to the element.
 - Reposition the rack to provide proper clearance between the meat and the element. Preheat the broil element for searing.

- The meat has not been properly prepared.
 - Remove the excess fat from the meat. Cut away fatty edges that may curl, leaving the lean intact.
- Grease has built up on oven surfaces.
 - Regular cleaning is necessary when broiling frequently.

Food does not bake or roast properly.

- The oven controls have not been set correctly.
 - See the chapter on operating the oven starting.
- Incorrect cookware or cookware of improper size is being used.
- The oven rack has been positioned incorrectly or is not level.
 - See the section on using the oven racks on page 36.
- The oven sensor needs to be adjusted.
 - See the section on adjusting the thermostat.

Food does not broil properly.

- The serving size may not be appropriate.
 - Refer to the cooking guide for serving sizes, and then try again.
- The rack has not been properly positioned.
 - See the broiling recommendation guide.
- The cookware is not suited for broiling.
 - Use suitable cookware.
- In some areas, the power (voltage) may be low.
 - Preheat the broil element for 10 minutes.
 - See the broiling recommendation guide.

The oven temperature is too hot or too cold.

- The oven sensor needs to be adjusted.
 - See the section on adjusting the thermostat.

The oven will not self-clean.

- The oven temperature is too high to start a self-clean operation.
 - Allow the range to cool and then reset the controls.
- The oven controls have been set incorrectly.
 - See the section on selfcleaning.

- A self-cleaning cycle cannot be started if the oven lock feature has been activated or if a radiant surface element is on.
 - Deactivate the oven lock (see page 28). Make sure all surface elements are turned off.

Excessive smoking during a self-cleaning cycle.

- There is excessive soiling in the oven.
 - Press OVEN OFF. Open the windows to rid the room of smoke. Wait until the self-cleaning cycle is cancelled. Wipe up the excessive soil and then start the self-cleaning cycle again.

The oven door will not open after a selfcleaning cycle.

- The oven is too hot.
 - Allow the oven to cool.

The oven is not clean after a self-cleaning cycle.

- The oven controls were not set correctly.
 - See the section on selfcleaning.
- The oven was heavily soiled.
 - Wipe up heavy spillovers before starting the selfcleaning cycle. Heavily soiled ovens may need to be selfcleaned again or for a longer period of time.

Steam is coming out of the vent.

- 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 operation and not a system failure. Use the range as usual.

A burning or oily odor is coming from the vent.

- This is normal in a new oven and will disappear in time.
 - To speed the process, set a self-cleaning cycle for a minimum of 3 hours.
 - See the section on selfcleaning.

Strong odor.

- An odor coming from the insulation around the inside of the oven is normal for the first few times the oven is used.
 - Operate the oven empty on the bake setting at 400 °F for 1 hour.

Fan noise.

- A convection fan may automatically turn on and off.
 - This is not a system failure but normal operation

Oven racks are difficult to slide.

- The shiny, silver-colored racks were cleaned in a selfcleaning cycle.
 - Apply a small amount of vegetable oil to a paper towel, and then wipe the edges of the oven racks with the paper towel.

Oven door closes faster/ slower than normal

- The soft closing hinges contain a damping fluid that is affected by temperature.
 - This is normal. If the oven is in a cold environment, the door will close slower than it will in a warmer environment. A warmer than normal environment, such as when cooking, may cause the door to close slightly faster.
 - Failure of soft closing doesn't imply a system failure. However, if the problem continues, contact a local Samsung service center.

DRAWER

The drawer does not slide smoothly or drags.

- The drawer is out of alignment.
 - Fully extend the drawer and push it all the way in.
- The drawer is overloaded or the load is unbalanced.
 - Reduce weight. Redistribute drawer contents.

Information codes

OVEN

- Code C-d0: There is a short in the control key.
- Code C-d1: The door lock is misaligned.
- Code C-F0: This code occurs if communication between the Main and Sub PBA is interrupted.
- Code C-F2 This code occurs if communication between the Main and Touch is interrupted
- Code C-20: The oven sensor is open when the oven is operating. TThe oven sensor is short when the oven is operating.
- Code C-21: This code occurs if the internal temperature rises abnormally high.

- Code C-30: The main PCB sensor is open when the oven is operating. There is a short in the main PCB sensor
 - Press OFF/CLEAR, and then restart the oven. If the problem persists, disconnect all power to the range for at least 30 seconds and then reconnect the power. If this does not solve the problem, call for service.

Displayed Code C-31

- This code occurs if the PCB temperature rises abnormally high.
 - Call for service.

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.