# ELECTRONIC OVEN CONTROL

## Control Pad Functions

**Read the instructions carefully before using the oven.** For satisfactory use of your oven, become familiar with the various functions of the oven as described below. **Note**: The graphics on your timer may not look exactly like the one shown. This doesn't change the way it operates.

**Note:** The oven function will not work if the time of day clock is not set.

**Speed Bake Pad**- Used to enter the speed bake mode temperature (some models).

**Speed Clean Pad**- Used to select the speed clean cycle (some models).

**Bake Time Pad**- Used to enter the length of the baking time.

**Start Pad**- Used to start all oven functions. Not used with Kitchen Timer or Oven Light.

**Up and Down arrow pads** Used along with the function pads to select oven temperature, cooking time, stop time (when programming an automatic stop time), time of day, clean time and minute timer.

**Bake Pad** Used to enter the normal baking mode temperature.

**Clear Pad**- Used to clear any function previously entered except the time of day and minute timer. Push **Clear pad** to stop cooking.



**Broil Pad**- Used to select the variable broil function.

**Keep Warm Pad**- Used to set the Keep Warm feature.

**Clean Pad**- Used to select the self-cleaning cycle.

**Clock Pad**- Used to set the time of day.

**Timer Pad**- Used to set or cancel the minute timer. The minute timer does not start or stop cooking.

**Start Time Pad**- Used to set the desired start time for baking. Can be used with **BAKE TIME** to program a delayed bake cycle.

**Oven Interior Light Pad**- Used to turn oven interior light ON and OFF.

## The oven can be programmed to:
**Bake** normally, Speed Bake (some models), Time Bake, Delayed Bake, Broil, Clean and Speed Clean (some models).

Note: Push buttons or pads may be shaped differently.

## For a silent control panel:
When choosing a function, a beep will be heard each time a pad is pressed. If desired, the control can be programmed for silent operation. Press and hold upper or lower oven **START TIME** pad. After 5 seconds, the control will beep once and "ON or OFF" will appear in the display. Press the **UP** or **DOWN ARROW** pad to change from on to off or off to on. Press the **START** pad or wait 5 seconds to return to the time of day display.

## Temperature Conversion (Fahrenheit / Celsius)
The electronic oven control is set to operate in °F (Fahrenheit) when shipped from the factory. The oven can be programmed for any temperature from 170°F to 550°F (76°C to 287°C).

**To change the temperature to °C (celsius) or from °C to °F (control should not be in a Bake or Clean mode):**
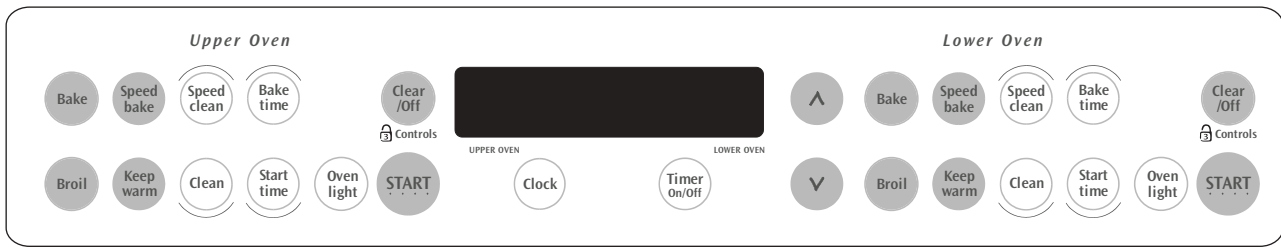1. Press and hold the upper or lower oven **BROIL** pad. After 5 seconds, the control will beep once and "F" or "C" will appear in the display.
2. Press the **UP** or **DOWN ARROW** pad to change from °F to °C or °C to °F.
3. Press the **START** pad or wait 5 seconds to return to normal operating mode.

**Versión en español**
Si desea obtener una copia en español de este Manual del Usuario, sírvase escribir a la dirección que se incluye a continuación. Solicite la P/N **318200132E**.

Spanish Owner's Guides
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318200132 (0406) Rev. A

# Setting the Clock



| **Note:** The time of day **must** first be set in order to operate the oven. |
| --- |

## To Set the Clock

When the range is first plugged in, or when the power supply to the appliance has been interrupted, the display will flash " 12:00 " and **PF** (power failure) appears in the display.

1. Press the **CLOCK** pad once (do not hold pad down).
2. Within 5 seconds, press and hold the **UP** or **DOWN ARROW** pad until the correct time of day appears in the display.
3. Press the **START** pad to accept the change, if the pad is not touched the change will be accepted after 5 seconds.

   **Note**: The clock cannot be changed during any timed bake or self-clean cycle.

## Changing Between 12 or 24 Hour Time of Day Display:

1. Press and hold the **CLOCK** pad for 6 seconds. After 6 seconds, **"12Hr"** or **"24Hr"** will appear in the display and the control will beep once.
2. Press the **UP** or **DOWN ARROW** pad to switch between the 12 and 24 hour time of day display. The display will show either **"12Hr"** or **"24Hr"**.
3. Wait 5 seconds or press the **START** pad to accept the changes and return to the time of day display.
4. Reset the correct time as described in **To set the Clock** above. Please note that if the 24 hour time of day mode was chosen, the clock will now display time from 0:00 through 23:59 hours.

## To Set the Minute Timer

1. Press the **TIMER ON/OFF** pad.
2. Press the **UP ARROW** pad to increase the time in 5 second increments. Press and hold the **UP ARROW** pad to increase the time faster. The timer can be set for any amount of time from 5 seconds to 11 hours and 50 minutes.
3. The display shows the timer countdown in seconds when you set the minute timer for less than 59 minutes. When the minute timer is set for more than 1 hour the display shows the timer countdown in minutes.
4. When the set time has run out, the timer will beep until the **TIMER ON/OFF** pad is pressed.

**Note:** The minute timer does not start or stop cooking. It serves as an extra timer in the kitchen that will beep when the set time has run out. The minute timer can be used alone or during any of the other oven functions. When the minute timer is in use with any other mode, the other mode countdown will be shown in the display. To view the minute timer count down, press the **TIMER ON/OFF** pad.

## To Change the Minute Timer while it is in use:

While the timer is active and shows in the display, press the **TIMER ON/OFF** pad and hold the **UP** or **DOWN ARROW** pad to increase or decrease the time.

**To Cancel the Minute Timer before the set time has run out:** Press the **TIMER ON/OFF** pad twice and press the **CLEAR/OFF** pad to return to time of day display.

# Setting Oven Controls

**Note:** The time of day **must** first be set in order to operate the oven.

**To Set or Change the Temperature for Baking or Speed baking**
The oven can be programmed to bake at any temperature from 170°F to 550°F (76°C to 287°C).

**To Set the Controls for Normal or Speed Baking:**
1.  Press the **BAKE** or **SPEED BAKE** pad. "— — —°" appears and "BAKE or CONV BAKE" will flash in the display.
2.  Within 5 seconds, press the **UP** or **DOWN ARROW** pad. The display will show "350°F (176°C)." By pressing and holding the **UP** or **DOWN ARROW** pad, the temperature can then be adjusted in 5°F increments (or 2°C if the control is set to display Celsius).
3.  3 seconds after the **UP** or **DOWN ARROW** pad is released, the oven will begin heating to the selected temperature. When the displayed temperature reaches the desired baking temperature, "Pre" will disappear from the display and the control will beep once.
4.  To cancel the baking function, press the **CLEAR/OFF** pad.

**To Change the Oven Temperature after Baking has Started:**
1.  Press the **BAKE** or **SPEED BAKE** pad.
2.  Press the **UP** or **DOWN ARROW** pad to increase or decrease the set temperature.

**To Set Control for Continuous Bake or 12 Hour Energy Saving:**
The oven control has a built-in 12 Hour Energy Saving feature that will shut off the oven if the control is left on for more than 11 hours and 59 minutes. The oven can be programmed to override this feature for continuous baking.

**To set control for continuous baking:**
1.  Press and hold the **TIMER ON/OFF** pad down for 7 seconds. After 7 seconds "Off 12Hr Off" will appear in the display.
2.  Press the **UP** or **DOWN ARROW** pad to switch between 12 Hour Energy Saving and Continuous Bake features. Note: **"On 12Hr On"** in the display indicates the control is set for the 12 Hour Energy Saving mode and **"Off 12Hr Off"** indicates the control is set for Continuous Bake feature.
3.  Wait 5 seconds or press the **START** pad to accept the changes and return to the time of day display.

**To Set Control for Oven Lockout (some models):**
The control can be programmed to lock the oven door (some models) and/or lock the oven control pads (all models).
**Please note** that on some double wall ovens, the upper oven door will lock and the lower won't lock when the Oven Lockout feature is ON; this is normal.

**To Set Control for Oven Lockout feature:**
1.  Press the **CLEAR/OFF** pad and hold for 3 seconds. After 3 seconds "Off" will appear in the display and a beep will sound. Once the oven door is locked "LOCK" will appear in the display. Allow about 15 seconds for the oven door to lock.
2.  To cancel the Oven Lockout feature, press the **CLEAR/OFF** pad and hold for 3 seconds. A beep will sound. "Off" will disappear from the display and "LOCK" will stay until the oven door has completely unlocked. The wall oven is again fully operational.

# Setting Oven Controls (continued)

**To Set the Timed Bake and Delay Start Features**

The **BAKE TIME** and **START TIME** pads operate the features that will turn the oven ON and OFF at the times you select in advance. The oven can be programmed to start immediately and shut off automatically (Timed Bake) or to begin baking at a later time with a delayed start time (Delay Start).

**Note**: During Timed Bake the preheat indicator light will function during the preheat operation.

**To Program the Oven to Begin Baking Immediately and To Shut Off Automatically (Timed Bake):**
1. Be sure that the clock shows the correct time of day.
2. Place the food in the oven.
3. Press the **BAKE** pad. "— — —°" appears in the display.
4. Within 5 seconds, press the **UP** or **DOWN ARROW** pad. The display will show "350°F (177°C)". By holding the **UP** or **DOWN ARROW** pad, the temperature can then be adjusted in 5°F increments (or 2° if the control is set to display Celsius).
5. Wait 5 seconds or press the **START** pad to accept the temperature.
6. Press the **BAKE TIME** pad. "0:00" will flash in the display (MIN:SEC) and (HR:MIN) if programmed for more than 60 minutes.
7. Press the **UP** or **DOWN ARROW** pad until the desired baking time appears in the display.
8. The oven will turn ON and begin heating.

**Note:** When the control is set for this function the oven temperature will be displayed. To see the cook time remaining press the **BAKE TIME** pad and to see the time of day press the **CLOCK** pad.

**To Program Oven for a Delayed Start Time and to Shut-Off Automatically (Delayed Start Bake):**
1. Be sure that the clock shows the correct time of day.
2. Place the food in the oven.
3. Press the **BAKE** pad.  "— — —°" appears in the display.
4. Within 5 seconds, press the **UP** or **DOWN ARROW** pad. The display will show "350°F (177°C)." By holding the **UP** or **DOWN ARROW** pad, the temperature can then be adjusted in 5°F increments (or 2° if the control is set to display Celsius).
5. Wait 5 seconds or press the **START** pad to accept the temperature.
6. Press the **BAKE TIME** pad. "0:00" will flash in the display (MIN:SEC) and (HR:MIN) if programmed for more than 60 minutes.
7. Press the **UP** or **DOWN ARROW** pad until the desired baking time appears.
8. Wait 5 seconds or press the **BAKE** pad for the control to accept the time.
9. Press the **START TIME** pad. The earliest possible start time will appear in the display.
10. Press the **UP** or **DOWN ARROW** pad until the desired start time appears in the display and wait 5 seconds to accept.
11. Once the controls are set, the control calculates the time when baking will start and stop.
12. The oven will turn ON at the delayed start time and begin heating.

Note:  When the control is set for a delayed time bake the time of day is displayed until the delayed time bake is reached. When the oven will turn on, the oven temperature will be displayed. To see the cook time remaining press the **BAKE TIME** pad and to see the time of day press the **CLOCK** pad.

**When the Set Bake Time Runs Out:**
1. "END" will appear in the display window and the oven will shut off automatically.
2. The control will beep 3 times.

**To Change the Oven Temperature or Bake Time after Baking has Started:**
1. Press the function pad you want to change.
2. Press the **UP** or **DOWN ARROW** pad to adjust the setting.

**⚠ CAUTION**  Use caution with the Timed Bake and Delayed Start features. 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.

# Setting Oven Controls **(continued)**



## Broil

Broiling is a method of cooking tender cuts of meat by direct heat under the broil element of the oven. A beep lets you know when the broil temperature is reached.  Be sure you center the broiler pan directly under the broil element for best results.

Arrange oven rack while oven is still cool. Position the rack as needed. The broiler pan and its insert allow dripping grease to drain and be kept away from the high heat of the broiler. **DO NOT** use the pan without its insert.  **DO NOT cover the insert with foil.** The exposed grease could ignite.

**⚠ WARNING** Should an oven fire occur, close the oven door and turn off the oven. 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.
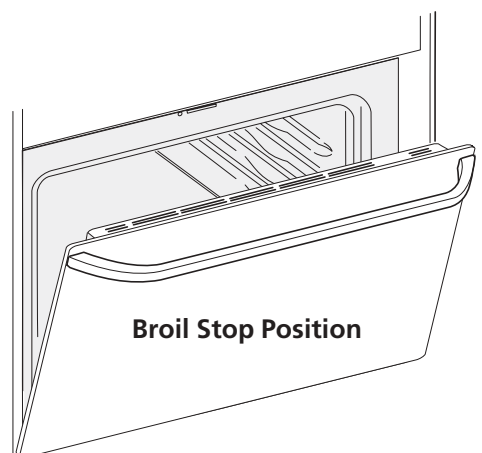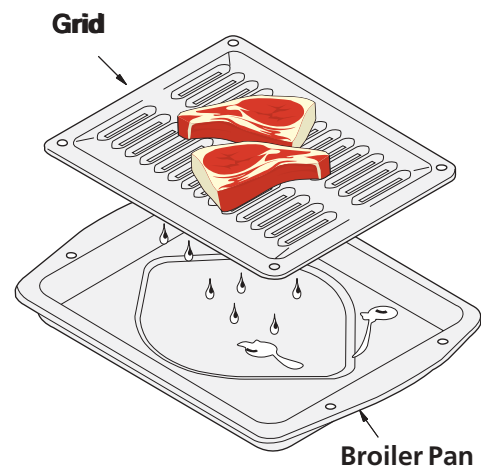


**Grid**

**Broiler Pan**

## To set the oven to broil:

1. Arrange oven rack while oven is still cool.
2. Press the **BROIL** pad. "— — —°" will appear in the display.
3. Press and hold the **UP** or **DOWN ARROW** pad until the desired broil setting level appears in the display. Press the **UP ARROW** pad for **HI** broil or the **DOWN ARROW** pad to adjust the broil temperature between 545°F/285°C and 400°F/ 204°C. Most foods may be broiled at the **HI** broil setting. Select the 400°F/204°C broil setting to avoid excess browning or drying of foods that should be cooked to the well-done stage.
4. Place the insert on the broiler pan, then place the food on the insert. **DO NOT** use the pan without the insert or cover the insert with **aluminum foil**. The exposed grease could ignite.
5. Place the pan on the oven rack. **Open the oven door to the broil stop position when broiling.**
6. Broil on one side until food is browned. Turn and broil food on 2nd side.
   **Note**: Always pull the rack out to the stop position before turning or removing food.
7. When broiling is finished, press **CLEAR/OFF** pad.
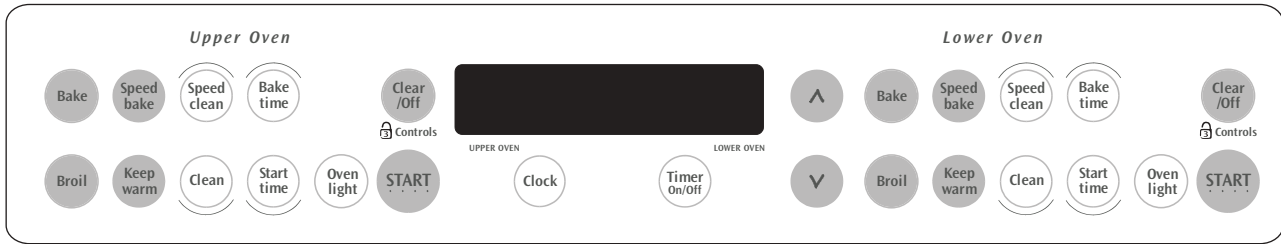


**Broil Stop Position**

### To Operate the Oven Light(s)

The interior oven light(s) will automatically turn ON when the oven door is opened. Press ther **OVEN LIGHT** pad to turn the interior light(s) ON and OFF whenever the door is closed.

The interior oven light(s) is (are) located at the upper right (and left, some models) rear wall of the oven interior and is covered with a glass shield held by a wire holder. The glass shield must be in place whenever the oven is in use. To change the interior oven light(s), see changing the Oven Light in the **General Care & Cleaning** section.

# Setting Oven Controls (continued)



## Setting the Keep Warm Feature (All upper oven, some lower oven)

The **KEEP WARM** pad turns ON the Keep Warm feature and will maintain an oven temperature of 170° F (76°C). The **Keep Warm** feature will keep oven baked foods warm for serving up to 3 hours after cooking has finished. After 3 hours the Keep Warm feature will shut the oven OFF automatically. The Keep Warm feature may be used without any other cooking operations or can be used after cooking has finished using **BAKE TIME** or **START TIME.**

## To set the Keep Warm Feature:

1. Arrange the interior oven racks and place baked food in the oven. If the food is already in the oven go to step 2.
2. Press The **KEEP WARM** pad. " **— — —** ° " will appear in the display.

   Note: If no further pads are touched within 5 seconds the request to turn ON the Keep Warm feature will be cleared.
3. Press the **UP** or **DOWN ARROW** to start. "**Hld**" should be displayed.
4. To turn the Keep Warm feature OFF at any time press the **CLEAR/OFF** pad.

## To set the Keep Warm feature to turn ON automatically:

1. Arrange the interior oven racks and place food in the oven. Set the oven properly for **Timed Bake** or **Delayed Timed** Bake.
2. Press the **KEEP WARM** pad . Nothing will appear in the display but a beep will sound. The Keep Warm feature is set to turn ON automatically after Timed Bake or Delayed StartBake has finished.
3. To turn the Keep Warm feature OFF at any time press **CLEAR/OFF** pad.

# Setting Oven Controls (continued)

## To Set the Sabbath Feature (for use on the Jewish Sabbath & Holidays)

The **BAKE TIME** and **START TIME** pads are used to set the Sabbath feature. The Sabbath feature may only be used with the **BAKE** pad. 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), however the display will not visibly show or provide any audible tones indicating whether the change occurred correctly. Once the oven is properly set using Bake with the Sabbath feature active, the oven will remain continuously ON until cancelled. This will override the factory preset 12-Hour Energy Saving feature.

If the oven light will be needed during the Sabbath, press **OVEN LIGHT** 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.

**IMPORTANT NOTES:** It is not advised to attempt to activate any other program feature other than **BAKE** while the Sabbath feature is active. ONLY the following key pads will function after setting the Sabbath feature; **UP** or **DOWN ARROWS**, **BAKE**, **START** & **CLEAR/OFF**. **ALL OTHER KEYPADS** will not function once the Sabbath feature is properly activated.

### To Program the Oven to Begin Baking Immediately & activate the Sabbath feature:

1. Be sure that the clock is set with the correct time of day.
2. Place the food in the oven.

3. Press the **BAKE** pad. " — — — ° " appears in the display.
4. Within 5 seconds, press the **UP** or **DOWN ARROW** pad. The display will show "350°F (176°C)." By holding the **UP** or **DOWN ARROW** pad, the temperature can then be adjusted in 5°F increments or 2°C if the control is set to display Celsius.
5. If you desire to set the oven control for a **Timed Bake** or **Delayed Start** Bake do so at this time. If not, skip this step and continue to step 6. Refer to the **BAKE TIME** (complete steps 5-6) **/ START TIME** (complete steps 5-8) section for complete instructions. Remember the oven will shut down after using **BAKE TIME** or **START TIME** and therefore may only be used once during the Sabbath/Jewish Holidays. The maximum **Delayed Start** Bake time is 11 hours & 59 minutes if the timer is set to display in 12 hour or 23 hours & 59 minutes if timer is set to display in 24 hour.
6. The oven will turn ON and begin heating.

7. Press and hold both the **BAKE TIME** and **START TIME** pads for at least 3 seconds. " — — — " will appears in the

   display. Press the **UP** or **DOWN ARROW** pad to select SAb. Once SAb appears in the display the oven control will no longer beep or display any further changes and the oven is properly set for the Sabbath feature.

   **Note:** You may change the oven temperature once baking has started by pressing the **BAKE** pad and then the the **UP** or **DOWN ARROW** pad (for Jewish Holidays only). The oven temperature will be adjusted in 5°F increments with each press of these pads or 2°C if the control is set to display Celsius. Remember that **the oven control will no longer beep or display any further changes** once the oven is set for the Sabbath feature.
8. The oven may be turned OFF at any time by first pressing the **CLEAR/OFF** pad (this will turn the oven and the Sabbath feature OFF).

Should you experience a power failure or interruption, the oven will shut off. When power is returned the oven will not turn back on automatically. The oven will remember that it is set for the Sabbath and the food may be safely removed from the oven while still in the Sabbath feature, however the oven cannot be turned back on until after the Sabbath. After the Sabbath observance turn OFF the Sabbath feature by pressing the **CLEAR/OFF** pad. **SAb** will disappear from the display and the oven may be used with all normal functions.

For further assistance, guidelines for proper usage, and a complete list of models with the Sabbath feature, please visit the web at **http:\\www.star-k.org.**

# Oven Cleaning

## Self-Clean Cycle time length

For satisfactory results, use a 2 hour Self-Clean cycle for **light soils** and a 3 hour cycle for **average** to **heavy soils.**
**NOTE:** The kitchen area should be well ventilated using an open window, ventilation fan or exhaust hood during the Self-Clean cycle. This will help eliminate the normal odors associated with the Self-Clean cycle.

### To Set the Controls for a Delayed Self-Clean or Delayed Speed Clean Cycle:

(**Note:** If you do not want to start a **Delayed** Self-Clean Cycle, skips steps 2 & 3.)
1. Be sure the clock shows the correct time of day.
2. Press **START TIME**. **"OVEN"** and **"TIME"** will flash.
3. Press and hold the **UP ARROW** pad to scroll to the time to start the delayed Self-Clean cycle. Release the pad when the desired time is displayed.
4. Press the **CLEAN** pad (for a 3 hour cycle) or **SPEED CLEAN** (for a 2 hour cycle). "— — —" appears in the display.
5. Press the **UP ARROW** pad once followed by the **START** pad.
   As soon as the controls are set, the motor driven lock will begin to close automatically and the "LOCK" indicator light will appear. **DO NOT** open the oven door while the light is flashing (it takes about 15 seconds for the oven door to lock).
6. "**CLn**" will appear in the display during the Self-Clean cycle and the "LOCK" light will glow until the Self-Cleaning cycle is complete or cancelled and the oven temperature has cooled.

### When the Self-Clean or Speed Clean Cycle is Completed:

1. The time of day  or "**End**" will appear in the display window and the "Clean" and "LOCK" light will continue to glow.
2. Once the oven has cooled down for about 1 HOUR and the "LOCK" light has gone out, the oven door can be opened.
3. If "**End**" is in the display and the Select Clean indicator light remains ON, press the **CLEAR/OFF** pad.  The time of day will appear in the display.
**NOTE:** When the oven is cool, wipe away any residue or powdered ash with a damp cloth or paper towel.

### Stopping or Interrupting a Self-Clean or a Speed Clean Cycle

If it becomes necessary to stop or interrupt a Self-Clean or a Speed Clean cycle:
1. Press the **CLEAR/OFF** pad**.**
2. Once the oven has cooled down for about 1 HOUR and the "LOCK" light has gone out, the oven door can be opened.
3. Restart the Self-Clean cycle once all conditions have been corrected.

**NOTE:** A smoke eliminator in the oven vent converts most of the soil into a colorless vapor.

**⚠ CAUTION** To avoid possible burns 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.

**⚠ CAUTION** **DO NOT** force the oven door open. This can damage the automatic door locking system. Use caution and avoid possible burns when opening the door after the Self-Cleaning cycle has completed. The oven may still be VERY HOT.

### To Adjust Oven Temperature:

1. Press and hold the **BAKE** pad for 6 seconds. The display now indicates the amount of degrees offset between the original factory temperature setting and the current temperature setting. If the oven control has the original factory calibration, the display will read "0".
2. The temperature can now be adjusted up or down 35°F or 19°C, in 1°F or 1°C steps by pushing and holding the **UP** or **DOWN ARROW**  pad.  Adjust until the desired amount of degrees offset appears in the display. When lowering the oven temperature, a minus sign (-) will appear before the number to indicate that the oven will be cooler by the displayed amount of degrees.
3. When you have made the desired adjustment, press the **START** pad or wait 5 seconds to go back to the time of day display.

**Note:** Oven temperature adjustment made will not change the Broil and the Self-Cleaning feature temperatures.