ELECTRONIC OVEN CONTROL GUIDE

Typical Control Pad Functions
(READ THE INSTRUCTIONS CAREFULLY BEFORE USING THE OVEN)

CONV. BAKE/ROAST pad - (upper & lower ovens) Used to enter the convection temperature.

BAKE pad - Used to enter the b a k i n g temperature.

OVEN LIGHT pad - Use the oven light pad on the control panel to turn the oven lights on and off when doors are closed.

BROIL pad- Used to select the broil function.

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

CONV. BAKE/ROAST pad

BROIL pad

BAKE TIME pad - (upper & lower ovens) Used to enter the length of the baking time or convection baking/ roasting time.

CANCEL pad - Used to cancel any function previously entered except the time of day and minute timer. Push the **CANCEL pad** to stop cooking or at the end of any cooking function to clear the display.

STOP TIME pad - Used with the **BAKE TIME** and **CLEAN pads** to program an automatic baking or self-clean cycle stop time.

CLOCK pad - Used to set time of day.

CLEAN pad

CANCEL pad

BAKE TIME pad

CLEAN pad - (upper & lower ovens) Used to select the self-cleaning function. Only one oven at a time can be cleaned.

TIMER pad - Used to set or cancel the minute timer. 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.

Note: The push pads may be shaped differently.

The push pad control panel provides precise control of all oven functions plus a lighted display window. For satisfactory use of your oven, become familiar with the various functions of oven, the location of the push pads and controls,and the instructionsin this Electronic Oven Control Guide. READ THE INSTRUCTIONS BELOW CAREFULLY BEFORE USING THE OVEN.

The oven can be programmed to:
- Bake normally
- Time bake with automatic on and off times
- Convection bake/roast
- Time bake using convection
- Broil
- Self-clean

Display Window

Shows time of day, timer and oven functions. The display features indicator words that flash to prompt you for the next step.

P R B **3 5 0°** CONV BROIL PRE- DELAY TIMED BAKE CLEAN LOCK [ON]	AM **12 : 59** PM HR CLEAN OVEN [1] [2] STOP ON TIMER	P R B **2 2 5°** CONV BROIL PRE- DELAY TIMED BAKE CLEAN LOCK [ON]
UPPER OVEN		**LOWER OVEN**
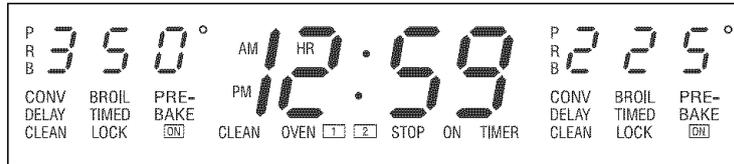
Display Numerals:
- Show time of day.
- Count down time remaining when using time functions.
- Show temperature of oven as it rises to reach programmed temperature and the set temperature once it is reached.
- Serve as a reminder to shut the oven door, if it is open, for self-cleaning operation when "F8" is displayed.
- Recall programmed temperature or time when commanded.
- Show oven selected. 1 - upper oven; 2 - lower oven.

Indicator Words:
- Flash to prompt next step.
- Indicate status of programmed function.
- Show programmed function when recalled.

SETTING THE CLOCK AND MINUTE TIMER

To Set the Clock

You must set the clock when the oven is first plugged in or each time the power supply to the appliance has been disconnected or interrupted. *The clock must always be set to the correct time of day*, as the automatic start and stop time operations (used to set the timed bake and self-clean modes) work directly with the clock.
1. The display window will flash the last clock time displayed before the power was interrupted.
2. Push the **CLOCK pad**. The indicator word "Time" will flash and AM or PM and time digits will appear in the display.
3. Push the **UP** (▲) or **DOWN** (▼) **ARROW pad** until the correct time of day appears in the display.

NOTE: If more than 10 seconds elapse between pushing the **CLOCK pad** and pushing the **UP** (▲) or **DOWN** (▼) **ARROW pad**, the **CLOCK pad** must be pushed again in order to set the clock.

NOTE: Three seconds after this procedure, the time of day will automatically be entered. Once the time is set, the AM or PM indicators will not show unless the **CLOCK pad** is pushed. The clock time cannot be changed when the oven has been programmed for Time Bake, Timed Convection or Self-clean. Cancel these programs before reprogramming clock.

To change the time, follow instructions 2 & 3 above.

To Set the Minute Timer

The timer does not control the oven. It serves as an extra timer in the kitchen that will beep when the set time has run out. The timer can be used independently during any of the oven functions and can be set for any amount of time from 5 seconds to 11 hours and 50 minutes.
1. Push **TIMER ON/OFF pad.** ":00" appears in the display and the word "TIMER" will flash.
2. Push the **UP** (▲) or **DOWN** (▼) **ARROW pad** until the desired number of hours, minutes and seconds appears in the display. **NOTE**: If more than 10 seconds elapse between pushing the **TIMER ON/OFF pad** and pushing **UP** (▲) or **DOWN** (▼) **ARROW pad** must be pushed again to set the numbers.

:05
TIMER
5 Seconds

IMPORTANT: This is the only function where time can be entered in minutes and seconds. When entering minutes and seconds, minutes show to the left of colon and seconds to the right of the colon. When entering hours and minutes, hours show to the left colon with the HR indicator word and minutes show to the right of the colon.

5:00
TIMER
5 Minutes

3. Countdown will start after 3 seconds and will show over other time functions. When the set time has run out, the timer will beep 1 time per second for 2 minutes.

HR 5:00
TIMER
5 Hours and 0 Minute

To change the timer while it is in use, push the **TIMER ON/OFF pad,** then push the **UP** (▲) or **DOWN** (▼) **ARROW pad** to increase or decrease the time.

To cancel the timer, push and hold the **TIMER ON/OFF pad** for 3 seconds. The word "Timer" will disappear from the display a few seconds later. Or, push the **TIMER ON/OFF pad**, then push the **DOWN**(▼) **ARROW pad** until ":00" appears in the display.
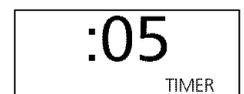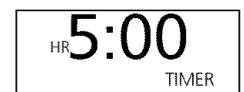
CONVECTION COOKING AND BAKING:

Air circulation during convection cooking.
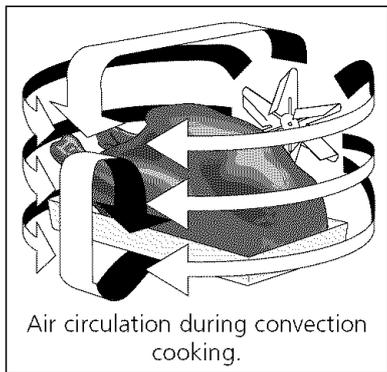
The convection option is an additional feature to the regular oven cooking methods of baking and broiling. Instructions for using the convection option are included in this the instructions for setting the oven controls.

Convection cooking is a method of cooking in which the heated air of the oven is circulated by a fan at the rear of the oven cavity. This fan is covered by a baffle to circulate the air uniformly,, providing even heat distribution for faster and more even cooking, baking and browning. The heated air penetrates food from every angle, sealing in natural moisture and flavors. The convection fan automatically turns off when the oven door is opened and resumes when the door is closed again. However, the heating element will stay on.

The oven can be programmed to bake in the convection mode at any temperature from 140°F/60°C to 550°F/288°C. Preheating the oven for 10-12 minutes is recommended when using convection, but is not necessary when roasting or cooking casseroles. Follow the recommendations in the recipe.

In several cases, depending on the texture and consistency of the food, the temperature normally used in conventional cooking should be reduced by 25°F/12°C for convection cooking. Your oven will automatically control the temperature 25°F/12°C lower than the set temperature when convection mode is selected. For example, when the oven temperature is set at 350°F/177°C, actual oven temperature will controlled at 325°F/163°C if the convection mode has been selected.

MANUALLY OPERATED OVEN COOKING:

To Regular Bake or Convection Bake/Roast

The oven can be programmed to bake at any temperature from 140°F/60°C to 550°F/288°C. Preheating the oven is recommended when baking, but is not necessary when roasting or cooking casseroles. Follow the recommendations in the recipe.

1. Arrange oven racks while the oven is still cool.
2. Push the **BAKE pad** or **CONV BAKE/ROAST pad.** "_ _ _°" and the word "BAKE" or "CONV BAKE" will glow in the display.
3. Push the **UP** (▲) or **DOWN** (▼) **ARROW pad** until desired baking temperature appears in the display. When setting the baking temperature, the temperature will start at 325°F/163°C and increase or decrease in increments of 5°F/2.5°C.

After 3 seconds the oven will begin to preheat. The display will show the words "ON", "PRE" and either "BAKE" or CONV. BAKE/ROAST". The temperature shown will be 140°F/60°C or the actual oven temperature, whichever is higher.

During preheating, the display will show a rise in 5°F/2.5°C increments until the programmed temperature is reached. When the oven is preheated, the oven control will beep, and turn the "ON" and "PRE" indicators words will go off. Only the word "BAKE" or "CONV BAKE" and the programmed oven temperature is displayed. The word "ON" will appear again in the display whenever the bake element is heating.

Note: Preheating will take approximately 5 to 9 minutes. The word "PRE" will not appear if the actual oven temperature is within 100°F/50°C of the set temperature. There will be no beep if the "PRE" indicator word was not shown.

4. When cooking is finished, push the **CANCEL pad** to turn off oven.

To recall the set temperature during preheat, push the appropriate **BAKE pad** or **CONV BAKE/ROAST pad.** Temperature will show briefly, then display window will automatically return to ongoing program.

To change the baking temperature after baking has begun, repeat steps 2 & 3 above.

To cancel the baking function or turn off the oven at the end of baking, push the **CANCEL pad**.

BAKING OR ROASTING -BASIC INSTRUCTIONS-
1. Position oven racks.
2. Push **BAKE pad** or **CONV BAKE/ROAST pad**.
3. Push **Up** (▲) or **DOWN** (▼) **ARROW pad** until desired temperature is set.

Note: If more than 10 seconds elapse between pushing a pad and pushing the **UP** (▲) or **DOWN** (▼) **ARROW pad**, the oven is not set and the display window will show the previous display.

⚠️ **CAUTION** **DO NOT** line the oven walls, bottom, racks or any other part of the appliance with aluminum foil. 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).

Setting Oven Controls for Concurrent Use
If one oven (upper or lower) is first set for CONV. BAKE/ROAST, BAKE , BROIL or BAKE TIME, the second oven may be used in any mode **except** CLEAN.

If one oven (upper or lower) is first set to CLEAN, the second oven cannot be used.

AUTOMATIC TIMED COOKING:

To Set the Automatic Timer for Clock-Controlled Cooking (Timed Bake Feature)

The **BAKE TIME** and **STOP TIME pads** control the timed bake operation. The automatic timer will turn the oven on and off at the times you select in advance.

The oven can be programmed to *start immediately and turn off automatically*, or *to start at a delayed time and turn off automatically*.

To Start Immediately and Turn Off Automatically:

1. Be sure clock is set to correct time of day, as this controls the automatic timing.
2. Arrange oven racks while the oven is still cool, and place the food in the oven.
3. Push the **BAKE pad** or **CONV BAKE/ROAST pad**. "_ _ _°" will glow and the words "BAKE" or "CONV BAKE" will flash in the display.
4. When the **UP** (▲) **ARROW** (▼) **pad** is first pushed, "325°F/168°C" will be displayed. Push the **UP** (▲) or **DOWN** (▼) **ARROW pad** until the desired baking temperature appears in the display. The temperature will increase or decrease in 5°F/2.5°C increments.
5. Push the **BAKE TIME pad**. The words "OVEN" and "TIME" will flash and the display will show "0 HR:00". A number indicating which oven is being programmed will also flash (1- upper oven, 2- lower oven).
6. Push the **UP** (▲) or **DOWN** (▼) **ARROW pad** to enter desired cooking time in 5 minute increments. Hours are to the left of colon and minutes are to the right of the colon. Allowable range is 5 minutes to 11 hours and 50 minutes.

After 3 seconds, the time of day is displayed and the oven will begin to preheat for 5 to 9 minutes. The word "ON", "PRE" or "CONV BAKE" will appear in the display. The temperature first shown will be 140°F/60°C or actual oven temperature, whichever is higher.

During the preheat, the display will show a rise of 5°F/2.5°C increments until programmed temperature is reached. When the oven is preheated, the oven will beep, the words "ON" and "PRE" will go out, and the programmed oven temperature will be displayed. The word "ON" will appear in the display whenever the oven elements are heating.

NOTE: The indicator word "PRE" will not appear in the display if the actual oven temperature is within 100°F/50°C of the set temperature. There will be no beep if the "PRE" indicator word was not shown.

When the set bake time runs out, the control will beep 3 times. The control will then continue to beep once every 10 seconds for 5 minutes or until the **CANCEL pad** is pushed.

CLOCK-CONTROLLED BAKING AND ROASTING -BASIC INSTRUCTIONS-

1. Position oven racks.
2. Push **BAKE pad** or **CONV BAKE/ROAST pad**.
3. Push **Up** (▲) or **DOWN** (▼) **ARROW pad** until desired temperature is set.
4. Push **BAKE TIME pad**.
5. Push **UP** (▲) or **DOWN** (▼) **ARROW pad** to enter cooking hours and minutes.
6. Push **STOP TIME pad**.*
7. Push **UP** (▲) or **DOWN** (▼)**ARROW pad** to enter stop time.
* Omit steps 6 & 7 to start immediately.

Note: If more than 10 seconds elapse between pushing a pad and pushing the **UP** (▲) or **DOWN** (▼) **ARROW pad**, the oven is not set and the display window will show the previous display.

Setting Oven Controls for Concurrent Use

If one oven (upper or lower) is first set for CONV. BAKE/ROAST, BAKE, BROIL or BAKE TIME, the second oven may be used in any mode **EXCEPT** CLEAN.

If one oven (upper or lower) is first set to CLEAN, the second oven cannot be used.

DELAYED START:

⚠️ **CAUTION** Use caution when using the automatic timer. Use the automatic timer 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 2 hours before cooking begins, and should be removed promptly when cooking is completed.

To Set the Oven for a Delayed Starting Time and an Automatic Turn-Off

To set the controls for this type of operation, follow steps 1-6 above and then steps 7-8 below:

7. Push the **STOP TIME pad.** The words "OVEN", "STOP" and "TIME" will flash. The display will show the calculated stop time based on current time of day and cook time. A number indicating which oven is being programmed will also flash (1- upper oven, 2- lower oven).

8. Push the **UP** (▲) or **DOWN** (▼) **ARROW pad** until the time that you want cooking to be completed appears in the display.

Example: If at 10 o'clock you set the oven for 350°F/177°C temperature and 2 hours and 30 minutes cooking time, the calculated stop time would be "12:30". If you want the stop time to be 1 o'clock, push **STOP TIME pad** and the **UP** (▲) **ARROW pad** until "1:00" appears in the display. Three seconds after this setting, the display will return to the current time of day.

The oven will calculate back from the stop time by 2 hours and 30 minutes to start the oven at 10:30. Until the time of day reaches 10:30, the word "DELAY" will show in the display. At the end of the delayed period, the word "DELAY" will go off and the oven will begin to heat. The word "PRE" will not appear in the display. As the oven heats, the display will show a rise in increments of 5°F/2.5°C until the programmed temperature is reached.

At the end of the programmed cook time, the oven will turn off automatically and beep 3 times.

To recall time function programmed, push the appropriate time pad.

To cancel timed function only, hold the **BAKE TIME pad** for 3 seconds. This cancels only the cook time and stop time, not the programmed bake mode.

NOTE: Clock controlled baking can be used with both ovens simultaneously. However, cook time and stop time will be the same for both ovens. One oven may also be used for regular baking or convection baking/roasting while the other oven is in the clock controlled mode.

NOTE: If one oven is set for clock controlled baking, the other oven cannot be set for self-cleaning.

Note: Baking can be stopped at any time by pushing the **CANCEL pad**.

Note: Clock controlled cooking is not recommended for baking items that require a preheated oven. For these items, preheat the oven and then set the timed cooking function. Food continues to cook if left in the oven. For best results, remove the food as soon as beeps signal the end of the cooking time.

Note: If more than 10 seconds elapse between pushing a pad and pushing the **UP** (▲) or **DOWN** (▼) **ARROW pad**, the oven is <u>not</u> set and the display window will show the previous display.

TO BROIL

Broiling is a quick method of cooking foods by direct radiant heat under the upper broiling element of the oven. Results and cooking times will depend on the distance between the food and the element. To broil, follow the steps below.

PREHEATING
Preheating is suggested when searing rare steaks. Remove the broiler pan and grid before preheating. Foods placed on the hot metal will stick. Set the oven control. Wait for upper element to become red hot, usually about 2-3 minutes. Preheating is not necessary when broiling meats well done.

BROILING
1. Remove broiler pan and grid.
2. Place the grid on the broiler pan (if it has been disassembled), and then the meat on the cool broiler grid. Be sure the grid is in place with the slots down so grease will drain into the pan. **DO NOT** use the broiler pan without the grid or cover the grid with aluminum foil. The exposed fat could ignite.
3. Select the desired rack position and slide the broiler pan into place. For rare meats, position the broiler pan closer to the element (upper position). For well-done foods such as chicken, lobster tails or thick cuts of meat, position the pan further from the element (lower position).
4. Push the **BROIL pad**. " _ _ _ °" will glow and the word "BROIL" will flash in the display.
   NOTE: If more than 10 seconds elapses between pushing **BROIL pad** and **UP** (▲) or **DOWN**(▼) **ARROW pad**, the oven is not set and the display will return to the previous display.
5. Push the **UP** (▲) **ARROW pad** briefly. The display will show HI. The oven has a Variable broil feature which means that a lower temperature can be selected. Push the **DOWN** (▼) **ARROW pad** to lower the temperature in 5°F/2.5°C increments. Three seconds after setting the oven controls, the broiler element will come on and the words "BROIL" and "ON" will remain in the display. If the Variable broil feature was selected, the word "ON" will cycle on and off with the heating element.
6. Place the broiler pan in the oven. **Leave the door open at the broil stop position**. The door will stay open in this position. Broil element will preheat in 2 to 3 minutes. If preheat is recommended, wait for the broil element to become red, then place food in oven.
7. When cooking is finished, push the **CANCEL pad**.

Broil times vary, so watch food closely. Time depends on the distance from the element, thickness and aging of meat, fat content and doneness preferred. The first side usually requires a few minutes longer than the second side. Frozen meats also require additional time.

BROILING
-BASIC INSTRUCTIONS-
1. Position oven racks.
2. Push **BROIL pad**.
3. Push **Up** (▲) **or DOWN** (▼) **ARROW pad** to desired setting.

⚠ CAUTION Should an oven fire occur, close the oven door and turn off the controls. If the fire continues, throw baking soda on the fire. **DO NOT PUT WATER OR FLOUR ON THE FIRE.** Flour may be explosive.

NOTE: Always pull the rack out to the stop position before turning or removing food.

OVEN CLEANING

The oven can be programmed to begin cleaning immediately and stop at a later time automatically, or to start at a delayed time and stop automatically

To Start the Self-Clean Cycle

*To assure satisfactory results, we recommend a 2 hour self-clean cycle for **light soils**, a 2 1/2 - 3 hour cycle for **average soils**, and a 4 hour cycle for **heavy soils**.

To Begin Cleaning Immediately and Stop Automatically:

1. Make sure the clock is set to the correct time of day as the self-clean operation works directly with the clock.
2. Close the oven door.
3. Push the **CLEAN pad** for the oven to be cleaned. The words "CLEAN" and "TIME" will flash and "-HR-:-" will appear in the display. A number indicating which oven is being programmed will also flash (1- upper oven, 2- lower oven).
4. Push the **UP (▲)** or **DOWN (▼) ARROW pad** until the desired cleaning time appears in the display. "2Hr:30" will show in the display at first. Set the cleaning time based on the amount of soil you have. For an oven with average soil, "2Hr:30" is correct. The time will increase or decrease in 5 minute increments.

Three seconds after the controls are set, the motor driven lock will begin to close and the cleaning cycle will begin. It takes about 15 seconds for the door to completely lock. The word "LOCK" and "ON" will appear in the display. The door cannot be opened after the oven temperature reaches 560°F (293°C). When the oven reaches cleaning temperature, the "ON" indicator will cycle on and off with the element. Push the **CANCEL pad** before opening the door. The door cannot be opened until the oven temperature is below 560°F (293°C) and the "LOCK" indicator goes off. See "Stopping or Interrupting a Self-Clean Cycle".

NOTE: If the oven door was left open, after 2 minutes "F8" appears in the display and a signal beeps continously. Close the door and push both the upper and lower oven **CANCEL pads**. The door will then lock and unlock immediately after.

To Start at a Later Time and Stop Automatically:

1. Follow steps 1-4 above:
2. Push **STOP TIME pad**. "CLEAN", "STOP" and "TIME" will flash in the display.
3. Push the **UP (▲) ARROW pad** until the time that you want cleaning to be completed appears in display. A stop time can be accepted only for a later time.
4. The control will calculate backward from the set stop time to determine when the cleaning cycle should begin. "DELAY" will glow in the display. To see the time that the oven will come on, push and hold the **CLEAN pad** for 3 seconds. The calculated start time will appear in the display for a few seconds.

The clean cycle will come on automatically at the calculated time. At that time, the word "DELAY" and "ON" will go out.

The oven will heat to a very high temperature. Soil and spillovers will burn off of the oven surfaces. Do not try to open the oven door without cancelling the cleaning cycle. The word "LOCKED" will remain in the display until the oven cools below 560°F (293°C) and the door has unlocked. **Only then can the door be opened.**

Stopping or Interrupting the Self-Cleaning Cycle

1. Push the **CANCEL pad**.
2. If the word "LOCK" remains in the display, the oven is too hot to open the door. Once the oven cools below 560°F (293°C), the word "LOCK" will go out. If the self-clean cycle was interrupted due to smoke or fire, correct the condition and start the self-clean operation again.
3. When cycle is completed, a powdery ash will be found wherever there was heavy soil. Wipe away residue with a damp cloth after the oven has cooled.

If the oven was not satisfactorily cleaned, the cleaning time was not long enough. Reset the controls and repeat the self-cleaning cycle.

OVEN CLEANING -BASIC INSTRUCTIONS-
1. Close door.
2. Push **CLEAN pad**.
3. Push **Up (▲) ARROW pad** to desired cleaning time.
4. Push **STOP TIME pad**.*
5. Push UP ARROW pad to enter stop time. *

* Omit steps 4 & 5 if you wish cleaning to begin immediately.

Note: If more than 10 seconds elapse between pushing a pad and pushing the **UP (▲)** or **DOWN (▼) ARROW pad**, the oven is not set and time of day will automatically return to the display.

Note: The door cannot be opened until the oven temperature has dropped below 560°F/293°C. Push the **CANCEL pad** before opening the door.

⚠ CAUTION **DO NOT** TRY TO FORCE THE OVEN DOOR OPEN. This can damage the door locking system.

⚠ CAUTION Use caution when opening the door after the self-cleaning cycle. The oven may still be **VERY HOT**.

⚠ CAUTION Before cleaning any part of the oven, be sure the electronic oven control is turned off or else push CANCEL. Wait until the oven is cool.

Note: Both ovens CANNOT be cleaned at the same time. The LOCK indicator word for the first oven must go off before setting the second oven to clean.

Setting Oven Controls for Concurrent Use
If one oven (upper or lower) is first set for CONV. BAKE/ROAST, BAKE, BROIL or BAKE TIME, the second oven may be used in any mode **except** CLEAN.

If one oven (upper or lower) is first set to CLEAN, the second oven cannot be used.

ADJUSTING OVEN TEMPERATURE

The temperature in the oven has been set 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 can be adjusted. Before adjusting the oven temperature, test a recipe by using a temperature set higher or lower than the recommended temperature. The baking results should help you to decide how much of an adjustment is needed.

To Adjust the Oven Temperature:

1. Push the **BAKE pad**.
2. Set the temperature to 550°F/288°C by pushing the **UP** (▲) **ARROW pad**.
3. Within 2 seconds, push and hold the **BAKE pad** for approximately 5 seconds until the special 2 digit display appears. Release the **BAKE pad**.

   The display now indicates the difference in degrees between the original factory temperature setting and the current temperature setting. If the oven control has the original factory calibration, the display will read "00".

4. The temperature can now be adjusted up or down 35°F/17°C, in 5°F/2.5°C increments, by pushing the **UP** (▲) or **DOWN** (▼) **ARROW pad**. Adjust the **UP** (▲) **/DOWN** (▼) **ARROW pads** until the desired amount of offset appears in the display. A minus sign (-) will appear before the number to indicate the oven will be cooler by the displayed amount of degrees.
5. When you have made the desired adjustment, push the **CANCEL pad** to go back to the time of day display.