

# ELECTRONIC OVEN CONTROL

**NOTE:** The basic timer is externally arranged in different configurations in various appliance models. This does not change the way it operates.

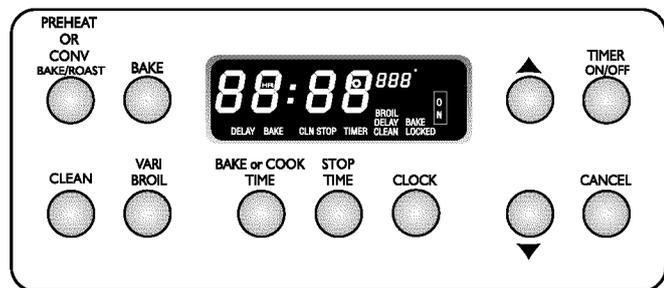


Figure 1

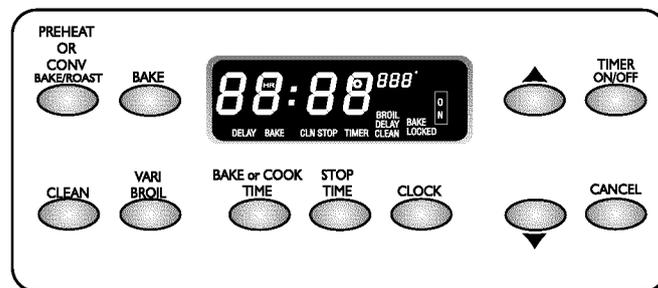
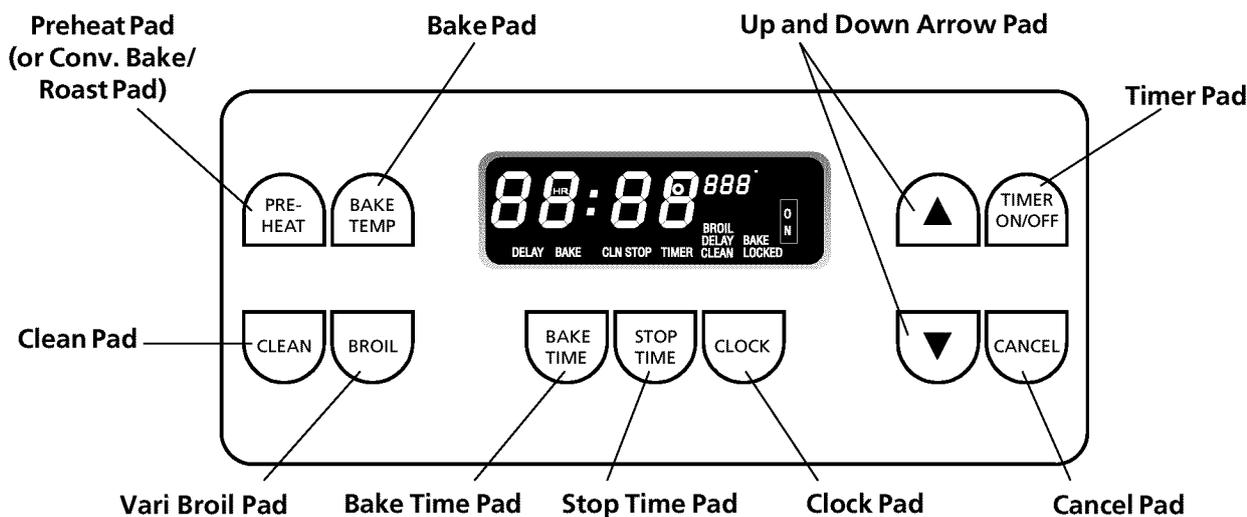


Figure 2

## Control Pad Functions

Read the instructions carefully before using the oven.



### The oven can be programmed to:

- Preheat and bake (some models)
- Bake normally
- Convection bake and roast (some models)
- Time bake/roast
- Vari Broil
- Self-clean

**Note:** Push buttons or pads may be shaped differently.

**Important:** The electronic control is inoperable until the clock is set to the correct time of day, after the appliance is first plugged in, or after a power interruption. The electronic timer has a memory and when power disconnected it will show display of the last time recorded.

### For a silent control panel:

When choosing a function, a beep will be heard each time a pad is pushed. If desired, the controls can be programmed for silent operation. Push and hold **STOP TIME**. After 7 seconds, the control will beep once. This will block the controls from sounding when a pad is pushed. To return the sound, push and hold **STOP TIME** again for 7 seconds until 1 beep is heard.

### 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 **318204003**.

Electrolux Home Products  
Attn.: Care Use  
P. O. Box 212378  
Augusta, GA 39017

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## Temperature Conversion (Fahrenheit / Celsius) (some models)

The electronic oven control is set to operate in °F (Fahrenheit) when shipped from the factory. To change the temperature to °C (Celsius) or from °C to °F:

1. Push the **PREHEAT or CONV. pad** and set the oven temperature to 500°F/260°C or more using the **UP or DOWN ARROW pad**.
2. Push the **PREHEAT or CONV. pad** within the next 2 seconds for 3-4 seconds. A beep sounds and a number appears in red to the right of the display. For the conversion, "1" must be displayed. If another number is displayed, push the **PREHEAT or CONV. pad** and select "1".
3. Push the **UP or DOWN ARROW pad** to change °F to °C or °C to °F in the display.
4. Push the **CANCEL pad** to confirm your choice.

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## Control Lockout (some models)

Lockout is an added feature that allows the oven controls to be locked. This feature locks the control and allows cleaning of the control panel without accidentally activating the oven.

Lockout can be set or cancelled by pressing the **BAKE/COOK TIME** and **STOP TIME pads** at the same time. During this mode, depressing any button results in the word "OFF" being displayed for 2 seconds.

While in Lockout, the display will show the current time of day.

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## Sabbath Feature / 12 Hour Shut-Off (some models)

All our models have the possibility to operate over 24 hours but for energy conservation, the electronic oven control has been set at the factory to limit all cooking operations to 12 hours (except during timed bake). To provide sabbath feature (or to cancel this setting):

1. Push the **PREHEAT or CONV. pad** and set the oven temperature to 500°F/260°C or more using the **UP ARROW pad**.
2. Push the **PREHEAT or CONV. pad** within the next 2 seconds for 3-4 seconds. A beep sounds and a number appears in red to the right of the display. For the conversion, "3" must be displayed. If another number is displayed, push the **PREHEAT or CONV. pad** and select "3".
3. Push the **UP or DOWN ARROW pad** to change from 12 hour to 9999 in the display, for no 12 hour shut-off.
4. Push the **CANCEL pad** to confirm your choice.

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## Other Displays (some models)

When proceeding through steps 1 and 2 in the **Temperature Scale Conversion** or in the elimination of the **Sabbath feature /12-hour Shut-off** time limit, two other words can be seen in the display. One is **ESC** with **O** in red. It cannot be changed. The other is **USE** or **SALE** with **3** in red. This one is for factory use and should stay on **USE**.

# Setting the Clock and Minute Timer

## 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.

1. Push **CLOCK**. The word "TIME" will appear in the display. (The timer allows you 5 seconds to go to step 2).
2. Push and hold the **UP** or **DOWN ARROW** until the correct time of day appears in the display. The word "TIME" will disappear after 6 seconds and the clock will start. Or, you may push **CANCEL** and the word "TIME" will disappear and the clock will start.

## To Set the Minute Timer

1. Push **TIMER pad**. ":00" and the word "TIMER" will glow in the display.
2. Push and hold the **UP ARROW** until the desired time appears in the display. As soon as the **UP ARROW** is released, the time will begin to count down in the display.
3. When the set time has run out, the timer will beep 3 times. It will then continue to beep once every 10 seconds for 5 minutes (or until **TIMER** is pushed).

When setting the minute timer for:	The time will appear in the display and increase in:
5 seconds to 2 minutes	5 second increments
2 minutes to 10 minutes	10 second increments
10 minutes to 1 hour	1 minute increments
1 hour to 9 hours and 55 minutes	5 minute increments

**Note:** The minute timer does not start or stop cooking and is not active during self-clean. 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 independently during any of the bake or broil functions. The timer can be set for any amount of time from 5 seconds to 9 hours and 55 minutes.

## To Change the Minute Timer :

Push and hold the **UP** or **DOWN ARROW** to increase or decrease the time.

## To Cancel the Minute Timer before the set time has run out :

Push and hold the **DOWN ARROW** until ":00" appears in the display. Or you may cancel the minute timer by pushing **TIMER**.

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## Convection Cooking and Baking (Some models)

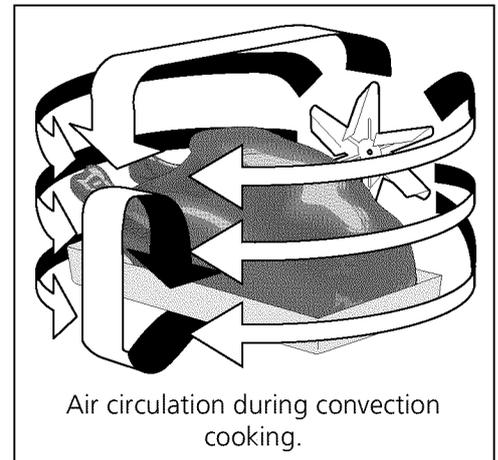
The convection option, available on some models, is an additional feature to the regular oven cooking methods of baking/roasting. Instructions for using the convection option are included in the instructions for setting the oven controls.

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 convection heating element will stay on.

The oven can be programmed to bake in the convection mode at any temperature from 170°F/77°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.

Due to better heat distribution inside the oven, lower temperatures can be used when using the convection mode. This temperature adjustment is automatically made by the electronic oven control. When using the convection mode, this actual oven temperature will be 25°F/12°C lower than the displayed temperature. This allows you to use your existing recipes without having to manually adjust the temperature downward.

Remember to use tested recipes with times adjusted for convection baking/roasting when using the convection feature. **Times may be reduced by as much as 30% when using the convection feature.**



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## Setting Oven Controls

### To Set the Preheat Temperature (some models)

Use the preheat function for regular baking as recommended in the recipe. The preheat function reduces preheating time.

#### To Set the Oven Using the Preheat Function for Normal Baking:

1. Push **PREHEAT**. " — — — ° " and the word "BAKE" will glow in the display. Proceed to the next operation within 5 seconds.
2. Push the **UP** or **DOWN ARROW**. "350°F/177°C" will appear in the display. Use the **UP** or **DOWN ARROW** to increase or decrease the bake temperature in increments of 5°F/1°C. After 5 seconds, "PrE", "BAKE" and "ON" will appear in the display. The oven will begin heating to the selected temperature. When the oven heats up to this temperature, a beep sounds to indicate that preheating is completed. The timer automatically goes on to the baking mode. You can now place food in the oven for baking.

**To change the temperature after baking has begun, repeat steps 1 and 2.**

**To cancel the preheat function, push PREHEAT, or push CANCEL.**

## Setting Oven Controls (continued)

### To Set or Change the Temperature for Normal Baking

The oven can be programmed to bake at any temperature from 170°F/77°C to 550°F/288°C.

1. Push **BAKE**. "\_\_\_°" and the word "BAKE" will flash in the display.
2. Push the **UP or DOWN ARROW**. The display will show "350°F/177°C". By holding the **UP or DOWN ARROW**, the temperature can then be adjusted in 5°F/1°C increments.
3. As soon as the **UP or DOWN ARROW** is released, the oven will begin heating. The display will show the actual oven temperature as it increases to the desired setting. If preheating is necessary, wait the selected temperature is shown in the display.
4. To cancel the baking function, push **CANCEL**.

To change the temperature after normal baking/roasting has begun, repeat steps 1 and 2 above.

### To Set or Change the Temperature for Convection Baking/ Roasting (some models)

1. Push **CONV**. "\_\_\_°" and the word "CONV." will flash in the display.
2. Push and hold the **UP or DOWN ARROW** until the desired baking temperature appears in the display.
3. As soon as the **UP or DOWN ARROW** is released, the oven will begin heating and the fan inside the oven will turn on. The fan shuts off when the oven door is opened.
4. To cancel the convection baking/roasting function, push **CANCEL**.

To change the temperature after convection baking/roasting has begun, repeat steps 1 and 2 above.

**⚠ CAUTION** Use caution when using the automatic timer. Use the automatic timer when cooking cured or frozen meats and most fruits and vegetables. Foods that can easily spoil such as milk, eggs, fish, meat or poultry, should be chilled in the refrigerator first. Even when chilled, they should not stand in the oven for more than 1 hour before cooking begins, and should be removed promptly when cooking is completed.

### To Set the Automatic Timer (Timed Bake Feature)

The **BAKE/COOK TIME** and **STOP TIME** pads control the Time 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 shut off automatically or to begin baking at a later time with an automatic shut off.

#### To start heating immediately and to shut off automatically:

1. Be sure that the clock shows the correct time of day.
2. Place the food in the oven.
3. Push **BAKE/COOK TIME** "—:—:—" and the words "BAKE TIME" will glow in the display window.
4. Push and hold the **UP ARROW** until the desired baking time appears in the display. The baking time can be set for any amount of time from 5 minutes to 11 hours and 59 minutes. When setting the baking time, the time will appear in the display and increase in 5 minute increments.
5. Push **BAKE or CONV**. "\_\_\_°" and the word "BAKE" or "CONV." will flash in the display.
6. Push and hold the **UP or DOWN ARROW** until the desired baking temperature appears in the display.

#### Once the controls are set:

- a. The oven will come on and begin heating to the selected baking temperature.
- b. The words "BAKE" or "CONV." and "ON" will appear in the display.
- c. The main display will show the oven baking time and will count down by minutes until it reaches ":00".

#### When the set BAKE/COOK TIME runs out:

- a. ":00" will appear in the display window and the oven will shut off automatically.
- b. The control will beep 3 times.
- c. The control will then continue to beep once every 10 seconds for 5 minutes or until **CANCEL** is pushed.

## Setting Oven Controls (continued)

### For a delayed start time and to shut off automatically:

Follow steps 1-4 above, THEN:

5. Push the **STOP TIME**. The time when baking will stop will appear in the display window. The words "BAKE STOP TIME" will glow in the display.
6. Push and hold the **UP ARROW** until the time that you want cooking to be completed appears in the display.
7. Push the **BAKE or CONV**. "— — —°" will appear, and the word "BAKE" or "CONV." will flash in the display.
8. Push and hold the **UP ARROW** until the desired baking temperature appears in the display.
9. If the baking temperature is not set, the control will beep. "— — —°" and the word "BAKE" or "CONV." will flash in the display.
10. The control will calculate backward from the set stop time to determine when the baking should begin. The words "DELAY" and "BAKE STOP TIME" will glow in the display.
11. The baking will come on automatically at the calculated time. At that time, the word "DELAY" will go out and "ON" will appear.
12. To cancel the countdown, press **CANCEL**.

### When the set BAKE/COOK TIME runs out:

- a. ":00" will appear in the display window and the oven will shut off automatically.
- b. The control will beep 3 times.
- c. The control will then continue to beep once every 10 seconds for 5 minutes or until **CANCEL** is pushed.

## To Broil

### Open the oven door to the broil stop position when broiling. For the 36" Gas Range: Close the oven door.

1. Push **VARI BROIL**. "— — —" and the word "BROIL" will flash in the display.
2. Push and hold the **UP or DOWN ARROW** until the desired broil setting level appears in the display.
3. When broiling is finished, push **CANCEL**.

Variable Setting for Electric Models:	Variable Setting for Gas Models:	Doneness
LO (LOW)	LO (LOW)	Well done
2 (Medium Low)	-----	Medium Well
3 (Medium)	-----	Medium
4 (Medium)	-----	Medium
5 (Medium Hi)	-----	Medium Rare
HI (High)	HI (High)	Rare

# Oven Cleaning

**Note (some models):** During the self-cleaning, the surface element, when used, are subjected to high heat. To ensure maximum element life, a safe guard locks off the use of the surface elements during the self-clean cycle. Once the oven cleaning cycle is completed and the oven door can be opened, the surface elements can be utilized.

## To Start the Self-Clean Cycle

\*We recommend a 2 hour self-clean cycle for **light soils**, a 3 hour cycle for **average soils**, and a 4 hour cycle for **heavy soils**.

### To Set the Controls for the Self-Cleaning Cycle To Start Immediately and Shut Off Automatically:

1. Be sure the clock shows the correct time of day and the door is close.
2. Push **CLEAN**. "CLN TIME" will flash in the display.
3. Push and hold the **UP or DOWN ARROW** until "3 HR:00" appears in the display. Set the cleaning time based on the amount of soil you have—light, medium or heavy. \*See above.
4. As soon as the controls are set, the motor driven lock will begin to close automatically and the word "DOOR" will be displayed and 3 beeps will be heard. After about 15 seconds, the lock is closed and the word "LOCK" appears in the display.

**For 36" Gas Range Models:** Move the door locking lever to the right. If the locking lever is not moved, the control will display the word "DOOR" and beep 3 times, with a single bip every 10 seconds until the locking lever is moved. If the locking lever is not moved within 30 seconds, the clean function will be automatically cancelled.

5. The word "CLEAN" will be displayed. The "OVEN" light will come on and cycle with the oven elements.

### To Stop or Interrupt a Self-Cleaning Cycle

If it becomes necessary to stop or interrupt a self-cleaning cycle due to excessive smoke or fire:

1. Push **CANCEL**.
2. Once the oven has cooled down and the word "LOCKED" shown in the display has gone out, then the oven door can be opened.

### To Set the Controls for the Self-Cleaning Cycle To Start at a Delayed Time and Shut off Automatically:

Follow steps 1-3 above, THEN:

4. Push **STOP TIME**. The time of day that the self-cleaning cycle ends will appear in the display. The words "CLN STOP TIME" will flash in the display.
5. Push and hold the **UP or DOWN ARROW** until the time of day that you want the cleaning to be completed appears in the display.

**For 36" Gas Range Models:** Move the door locking lever to the right. If the locking lever is not moved, the control will display the word "DOOR" and beep 3 times, with a single bip every 10 seconds until the locking lever is moved. If the locking lever is not moved within 30 seconds, the clean function will be automatically cancelled.

6. The control will calculate backward from the set stop time to determine when the self-cleaning cycle should begin. The words "DELAY" and "CLN STOP TIME" will glow in the display.
7. The self-cleaning cycle will come on automatically at the calculated time. At that time, the word "DELAY" will go out and "ON" will appear.

### When the Self-Clean Cycle is Completed

1. The time of day will appear in the display window and the word "LOCKED" may remain in the display.
2. Once the oven has cooled down and the word "LOCKED" shown in the display has gone out, then the oven door can be opened.

**⚠ CAUTION DO NOT** force the oven door open. This can damage the automatic door locking system. Use caution when opening the door after the self-cleaning cycle is completed. The oven may still be VERY HOT.

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## Adjusting Oven Temperature

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 **BAKE**.
2. Set the temperature to 550°F/288°C by pushing the **UP ARROW**.
3. Within 2 seconds, push and hold **BAKE** for approximately 5 seconds until the special 2 digit display appears. Release **BAKE**. 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 calibration, the display will read "00."
4. The temperature can now be adjusted up or down 35°F/17°C, in 5°F/1°C increments, by pushing the **UP or DOWN ARROW**. Adjust until the desired amount of degrees 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 **CANCEL** to go back to the time of day display.

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## Failure modes

All failure modes give a visual and audible alarm. When the display shows **F1** or **F3**, the electronic oven control has detected a fault condition. Note that code and push the **CANCEL** pad to clean the display and stop the beeping. Reprogram the oven. If fault recurs, push **CANCEL** pad, disconnect the appliance to prevent damage and contact an authorized servicer.