

# Clinton Countdown Clock

The Clinton Countdown Clock is a microcontroller-based counter with a 16 character LCD display that shows the total amount of time elapsed and remaining in the Clinton Administration. The unit is powered by a 9VDC adapter. An optional transistor battery adapter may also be used to power the clock. When the clock is unplugged, 2 internal AAA batteries maintain the time. These batteries should never need replacement.

## Display Modes

The four buttons on the Countdown Clock select one of the four available display modes. These are:

<b>TIME</b>	Displays the current local time (in 24 hour format)
<b>COUNT</b>	Displays the total number of days in office, and the total number of days remaining.
<b>IN</b>	(Green LED on) Detail of elapsed time in office.
<b>OUT</b>	(Red LED on) Detail of time remaining in office.

Times are formatted as "Y MM-DD-YY HH:MM:SS" so "2 03-24 12:09:37" is read as 2 years, 3 months, 24 days, 12 hours, 9 minutes and 37 seconds.

## Setup Mode

The Setup Mode is used to set the local time and timezone. To place the clock into the setup mode, hold down the **SETUP** button for 5 seconds. The clock will then prompt you for the timezone. Use the **IN** and **OUT** buttons to select the local timezone. The available timezones are:

AST - Atlantic Standard  
ADT - Atlantic Daylight  
EST - Eastern Standard  
EDT - Eastern Daylight  
CST - Central Standard  
CDT - Central Daylight  
MST - Mountain Standard  
MDT - Mountain Daylight  
PST - Pacific Standard  
PDT - Pacific Daylight  
LST - Alaskan Standard  
LDT - Alaskan Daylight  
HST - Hawaiian Standard  
HDT - Hawaiian Daylight  
BST - Bering Standard  
BDT - Bering Daylight

The *standard* timezones are for use in the fall and winter, and the *daylight* timezones are for use when daylight savings time is in effect. If you don't select the correct timezone, the Clinton Countdown Clock will display erroneous results. After selecting the appropriate timezone, press the **ENTER** button.

The clock will then prompt you for the current Year, Month, Day, Hour, Minutes, and Seconds. Use the **+** and **-** buttons to increase or decrease the value under the cursor, then press the **ENTER** button. Remember that the clock uses a 24 hour time format.

## **Calculations**

The rationale behind the calculations performed by the Clinton Countdown Clock when in the **COUNT** mode is as follows:

The first day of the Clinton Administration is 01-20-93. This is day 1 and there are 1460 days left to endure. The days *In* and *Out* will always add up to 1461 (4 years @ 365 days per year + 1 leap day).

The last full day of the Clinton Administration is 01-19-97. On this day, Clinton has been in office for 1461 days and there are 0 days remaining because a Republican will be sitting in the Oval Office on the next day.

When the clock is in the **IN** or **OUT** mode, the rationale is the same as just described, with the precision increased to the nearest second.