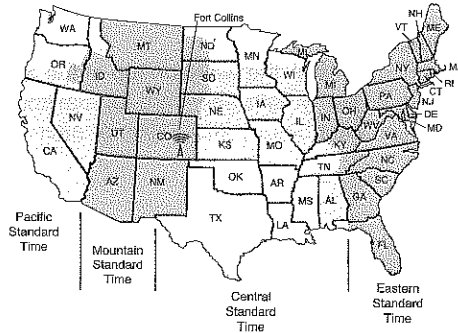
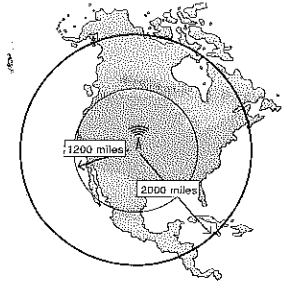


The RADIO-CONTROLLED Clock

With the Radio-Controlled Clock, you have the most accurate timepiece within the continent. It can receive the time signal transmitted by the National Institute of Standards and Technology (NIST), which is regulated by 3 atomic clocks and deviates less than 1 second within 3,000 years.

The NIST broadcasts the time signal (WWVB, 60kHz) continuously from Fort Collins, Colorado. This signal can be received anywhere in the continental USA that long wave (AM) radio reception is possible with a portable radio. It is expected that the signal can reach a distance of 2,000 miles from the transmitter. Therefore, your clock will receive the signal within the broadcast range anywhere an AM signal can be received; generally the signal cannot be picked up in massive metal and concrete structures unless near a window. In addition, some environmental effects (see below) may affect the transmitting distance.

For more information, please study the WWVB WEB page of NIST at:
<http://www.boulder.nist.gov/timefreq/>

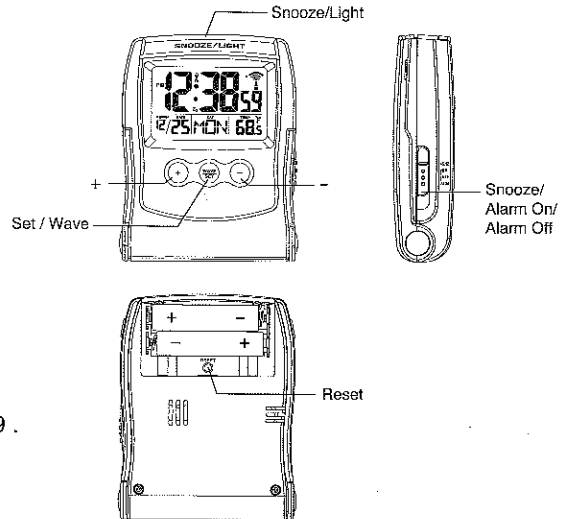


Environmental Reception Effects

The Radio-Controlled Clock obtains the accurate time with wireless technology.

Same as all wireless devices, the receiving ability may be affected by, but not limited to, the following conditions:

- Long transmitting distance.
- Nearby mountains and valleys.
- Among tall buildings.
- Near railway, high voltage cable, etc.
- Near freeway, airport, etc.
- Near construction site.
- Inside concrete buildings.
- Near electrical appliances.
- Bad weather.
- Inside moving vehicles.
- Nearby metallic structures.

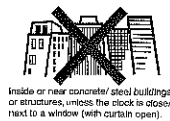


Specifications

- Receive 60kHz WWVB signal transmitted by NIST in Fort Collins, Colorado.
- Automatic time adjustment after signal reception.
- Calendar with day-of-the-week display from 1 January 2000 to 31 December 2099 .
- Hour, Minute and Second display.
- 12 or 24 hour format.
- Crystal oscillator frequency : 32.768kHz.
- Time accuracy (atomic clock): better than 1 second in 3000 years.
- Time accuracy (free run): average within 60 seconds per month.
- Operating temperature from 0°C to 50°C (32°F to 122°F).
- Temperature measuring range from -9.9°C to 60°C (14.2°F to 140°F).
- Temperature resolution 0.1°C (0.1°F).
- Alarm with snooze function.
- Superglow backlight.
- Battery life: approximately 1 year.

Location Precautions

This clock receives a radio wave much like a TV or radio. Be sure to locate it near a window or some other locations where reception is good. Avoid the locations which can interfere with proper reception.



Inside or near concrete/steel buildings or structures, unless the clock is close/ next to a window (with curtain open).



Next or close to power station.



Inside moving vehicles (automobile, train, airplanes etc) which radio transmission or electronics will interfere the reception of radio-controlled clock.



Too close to household appliances (Computer, TV, video/audios, fax machines, etcetera).



Near construction sites, traffic lights, roadside, neon signs etc.



Close to or on top of metal surfaces / plates.

Battery Installation

- Open the battery door
- Load full set (2pcs AAA size battery) of new batteries in polarity (+) and (-) as indicated
- Close the battery door

Warning : Do not mix old and new batteries
 Do not mix alkaline, standard (carbon-zinc) or rechargeable (nickel cadmium) batteries.

Do not touch any other button or setting on your unit. It will automatically receive the time signal after batteries inserted.

Getting Started

As long as batteries are supplying power to the unit, it receives the time signal and adjust time automatically. No manual adjustment is required after power up. Accurate adjustment of the clock based on the time signal is supported in the continental USA.

You are recommended to leave the clock overnight for searching time signal since night time allows better transmission of time signal.

Signal Receive Operation

The unit automatically receive the time signal everyday at 2:00am and make any required adjustment to the time setting.

The WAVE OK indicator and the antenna tower icon appear on the display if the time signal is successfully received or after manual pressed WAVE button.

Important : Do not perform any button or switch operation while a signal receive operation is in progress.

Triggering a Receive operation Manually

You can trigger a signal receive operation at any time by pressing the WAVE button, which cause the unit to perform an immediate signal receive operation.

Unsuccessful Signal Reception

If the automatic update is unsuccessful, the wave on top of the antenna tower and the WAVE OK icon will be disappeared, and the unit will re-try to receive the signal again every hour afterward for maximum of 4 hours.

If unsuccessful signal reception after battery installation or after reset, the unit keep trying for 10 minutes every 3 hours until time signal reception successful.

Manually Set the Clock

To Set the DST and TIME ZONE

1. Press and hold the SET/WAVE button for couple of seconds will go to DST and TIME ZONE set mode.
2. Press – key to toggle DST ON and DST OFF.
3. Press + key to change the time zone until your desired time zone shown on display.

To Set the Calendar

1. Press SET/WAVE button after DST and Time Zone set mode.
2. Press + or – button sequentially to set year.
3. Holding down either + or – button change the year at high speed.
4. Press SET/WAVE button to confirm year set and goes to date set.
5. Press + or – button sequentially to set date.
6. Holding down either + or – button change the date at high speed.

To Set the Time

1. Press SET/WAVE button after calendar set mode.
2. Press + or – button sequentially to set minutes, when you press the + or – button once, the seconds count reset to 00.
3. Holding down either + or – button change the time at high speed.

To Set the Format


1. Press SET/WAVE button after desired time set and go to format set mode.
2. Press + button to toggle between 12hr and 24 hr time display format.
3. Press – button to toggle between °C and °F temperature display format.
4. Press SET/WAVE button to confirm and quit the set mode.

Using Alarm


To Set Alarm Time

1. Press '+' or '-' button to show the alarm time. Icon 'AL' will be displayed.
2. Further press '+' or '-' button to change the alarm time. Holding '+' or '-' button will make the setting scroll faster.
3. Alarm time setting will be confirmed and it will jump back to normal time display mode if no key is pressed for about 5 seconds.

To Activate Alarm Function

1. Slide the 'SNZ/ALARM ON/OFF' switch to ON position, the sign  will appear. The alarm function is activated.
2. When the alarm sounds, press the Snooze/Light button. The alarm will sound the same time of the next day.
3. To deactivate the alarm function, slide the SNZ/ALARM ON/OFF switch to OFF position.

To Activate Snooze Function

1. Slide the SNZ/ALARM ON/OFF switch to SNZ position. Both the sign  and 'Zz' will appear. The snooze function is activated.
2. When the alarm sounds, press the Snooze/Light button. The alarm will sound again in approximately 5 minutes.
3. To deactivate the snooze alarm, slide the SNZ/ALARM ON/OFF switch to the OFF position.

Using the Backlight

You may check the time in the dark by simply pressing the SNOOZE/LIGHT button once. The display will light up with a soft glow that lasts for a while. You can read the time easily and clearly.

Note: Frequent use of this feature will affect battery life.

Check Temperature

The temperature is displayed on the temperature field, Hi and Lo will be shown if the temperature is out of the measurement range.

Re-set the unit (Trouble- shooting)

Press the "Reset" button when the clock is displaying irrelevant time even when the "Wave OK" or "OK" shows on the LCD. This may happen when the external noise is severe enough to interfere with the time signal.

Care of Your Clock

- Avoid exposing your clock to extreme temperatures, water or severe shock.
- Avoid contact with any corrosive materials such as perfume, alcohol or cleaning agents.
- Do not subject the clock to excessive force, shock, dust, temperature or humidity. Any of these conditions may shorten the life of the clock.
- Do not tamper with any of the internal components of this clock. This will invalidate the warranty and may cause damage.