

Atomix Timepiece With Calendar and Thermometer

00582W

Instruction Manual

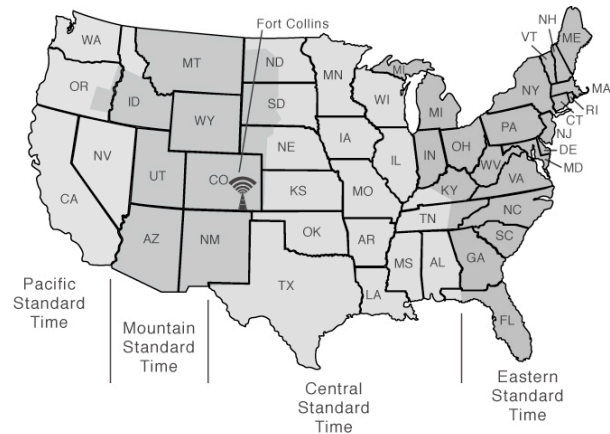
Atomix Timepiece

With the Atomix Timepiece, 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 next page) 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 Atomix Timepiece 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 circumstances:

- 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.
- Near computers and televisions.
- Bad weather locally or electrical storms between you and Colorado.
- Inside moving vehicles.
- Nearby metallic structures.

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 following 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.



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



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



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



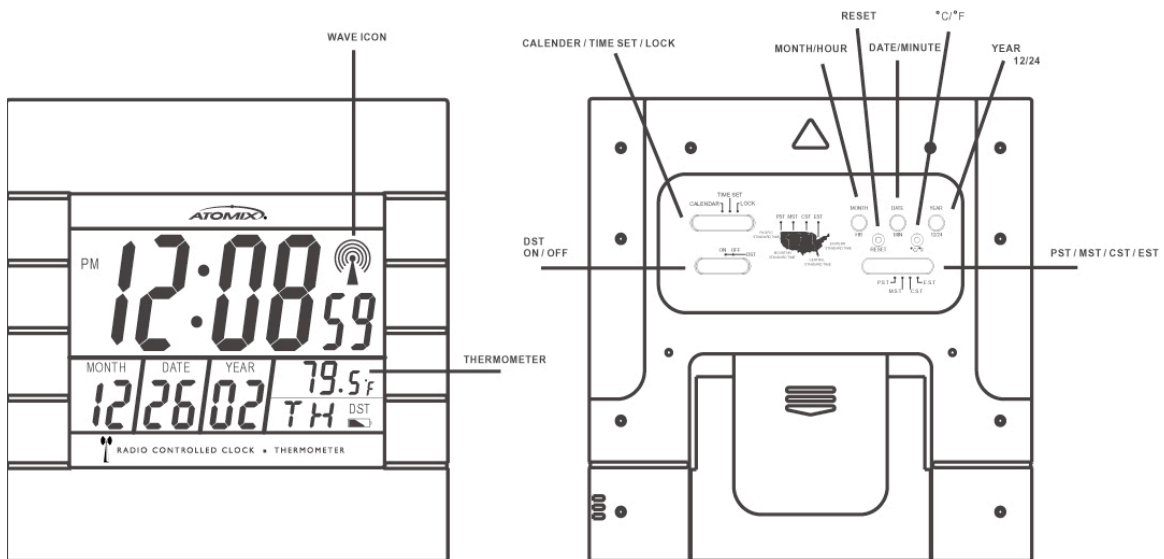
Close to or on top of metal surfaces / plates.

Synchronization signal reception can be received in Continental USA only. In other areas, you can still use this clock by making time settings manually.

Specifications

- Receives 60KHz WWVB signal transmitted by NIST in Fort Collins, Colorado.
- Automatic time and date adjustment after signal reception.
- Calendar with day-of-the-week display from January 1, 2000 to December 31, 2099.
- Hour, minute and second display.
- 12 or 24-hour format.
- Crystal oscillator frequency: 32.768kHz.
- Indoor temperature range: 32°F-122°F

- Batteries: 3 "AA" size alkaline batteries. (Not included)
- Battery life: approximately 1/2 year.
- Press °C/°F button to choose your desired temperature reading.



Getting Started

Installing the Batteries

- Lift the tab on the battery door located at the back of the clock. Put in the "AA" alkaline batteries with proper polarity (+) and (-) as indicated. Now manually set the clock to the correct time. Be sure the proper time zone for your location is selected on the back of the clock.

Setting the Time Zone

- Slide "TIME ZONE" switch to display the time in the desired time zone. Always slide "DST" switch to ON position except the clock is used in an area without Daylight Saving Time (i.e. part of Arizona and Indiana)

To Set the Time

- Slide switch to TIME SET, press HR or MIN button to set, your desired time. Return the switch to the lock position.

****Special attention to usage in Arizona and Indiana****

Part of Arizona and Indiana do not have Daylight saving Time (DST). Please adjust the "DST" switch to the OFF position if the clock is used in an area without Daylight Saving Time.

To Set Calendar

- Slide switch to CALENDAR, Press MONTH, DATE or YEAR buttons to set your desired calendar settings. Return the switch to the lock position.

First reception after power-up

- The Radio Controlled clock will start to search for the WWVB signal for 10 minutes after installing the batteries.
- In an optimal condition, the correct time can be displayed within 3 to 5 minutes.
- The tower and wave icon will keep scrolling after you start the clock. This is normal since this indicates the radio control circuitry is working.
- The 4 "Wave" icons stop scrolling and indicated successful reception, it indicates successful reception.

Auto mode setting

- After installation of batteries or after being reset, it will receive the RC signal automatically.
- If the clock fails to receive the signal when the batteries are first installed, it will repeat a reception attempt every hour until 2:00 AM and go to "Automatic time update" mode. If the unit still cannot receive the RC signal after entering "Automatic time update" mode, it will search again at 2:00 AM the next morning.
- Once the RC signal is successfully received, the unit will automatically update the time by "Automatic time update" mode.

Automatic time update

- The clock will automatically update the time at 2:00 AM.
- If automatic time update fails the clock will repeat the update attempt 3 times in the next 3 hours. If the unit still does not receive the RC signal, it will search again at 2:00 AM the next morning.

Caution:

This clock is set to show the Pacific Standard Time (PST) with Daylight Saving Time as a factory setting. Please adjust these switches on the back of the clock for the location where the clock is used. In some unusual occasions, the clock may be affected by noise and respond abnormally. In such conditions, press the "RESET" button to resume normal operation.

Important:

It is recommended to put the Atomic Clock near a window facing Fort Collins, Colorado. Please move the clock to another location if difficulty in signal reception is encountered.

12HR/24HR International Time Display

- Press the 12HR/24HR button to choose the desired display format.
- "PM" will be displayed only in the 12HR format.

Re-set the unit (Trouble-shooting)

- Press the "Reset" button when the clock is displaying irrelevant time even when the 4 "Wave" icons shows on LCD. This may happen when the external noise is severe enough to interfere with the time signal.

Scrolling Tower and Wave OK Display

- If the tower and 4 "Wave" icons is scrolling, your clock is actively searching for the WWVB signal. This will be automatic 4 times everyday.
- If the tower and wave icon is static, your clock is not actively searching for the signal.
- The 4 "Wave" icons will be displayed which indicates successful reception during the last search for the WWVB 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.
- Use only fresh alkaline batteries. Mixing old and new batteries may cause battery leakage.