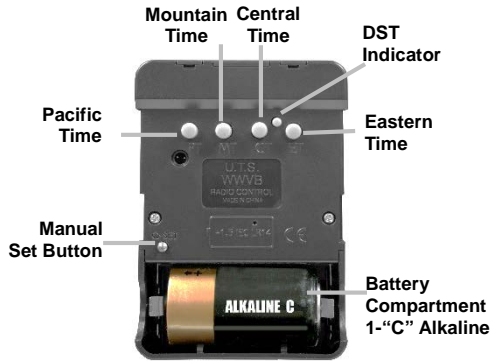


## 20 " Atomic Wall Clock



### Get Started

- Step 1:** Insert 1 fresh "C", LR14 1.5 volt ALKALINE battery according to the polarity marked on the case.
- Step 2:** Firmly press the time zone button once.
- Step 3:** Position the clock on an exterior wall that faces Ft. Collins, Colorado. During the night, your clock will automatically set itself.

**Note:** The hands will move to the 12:00, 4:00 or 8:00 position and search for the radio signal. If the radio signal is received the time will set. If the signal is **not** received the clock will stay at the 12:00, 4:00 or 8:00 position and search for the WWVB time signal on the even hours. Once the radio signal is decoded, the hands will automatically adjust to the correct time. This may take up to 5 nights.

- Step 4:** The default time zone is Pacific Time. If the clocks sets itself and the hours are off, hold the correct time zone button for 5 seconds to correct.

### Position Clock

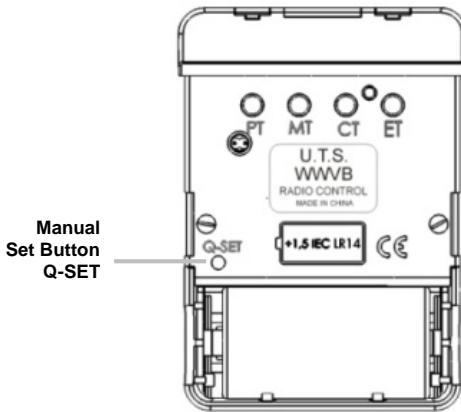
- Choose a location 6 feet or more from electronics such as cordless phones, wireless gaming systems, televisions,

microwaves, routers, baby monitors, etc., which can prevent signal reception.

- Position near an exterior wall that faces Ft. Collins, Colorado for WWVB time signal reception.
- The antenna is available for signal reception when the front or back of the clock faces Colorado.

## Manual Set Time

On rare occasions in certain areas, the clock may not be able to receive the radio controlled time signal due to the strength of the signal or the geographic location. In this case, the clock can be set manually and used as a regular quartz wall clock.



**Note:** Allow up to five nights for the clock to receive the WWVB signal **before** manually setting the time.

### Set the clock manually:

On rare occasions it is not possible to receive a WWVB signal at the location of the clock. In this instance the clock may be set manually and will operate as a quartz clock.

1. Press and hold the Q-Set Button on the backside of the movement until the second hand starts running.
2. Release the button quickly (less than 3 seconds) and press it again to set actual time.
3. Three seconds after releasing the Q-Set Button your clock will start working as a Quartz Clock.
4. In Quartz Mode your clock will try to receive each even hour. If a signal is received it will override the manual set time.

## Daylight Saving Time

The National Institute of Standards and Technology and WWVB encode a special DST “bit” in the WWVB transmission for DST. Your clock will read this information and automatically advance the hands one hour in the spring and eleven hours in the fall.

**Arizona:** If you live in an area that does not recognize DST, you must press the DST button one time only to turn OFF.

## Manual WWVB Time Signal Search

For information about WWVB, visit:  
[www.nist.gov/pml/div688/grp40/wwwvb.cfm](http://www.nist.gov/pml/div688/grp40/wwwvb.cfm)

### Signal Interference

In some cases, the signal is affected by weather conditions and electrical interferences, or the location of the clock itself may result in poor reception. If the clock has not synchronized to the correct time within a few days of activation, you may need to move the clock to a different location.

## Auto Correction

The clock automatically checks its hands position daily between 3:00 and 4:05 (pm). If hands position is not equal to internal time, the hands are driven (quick run) to the correct time again. You will see the hands spin completely around during this correction. This is normal behavior.

## Frequently Asked Questions

### ***Q. How long will the battery last?***

***A:*** A good “C” alkaline battery will last over one year. If your clock is located in an area with little interference where it can quickly receive a signal the battery can last much longer than one year.

### ***Q. Can this La Crosse Technology clock be used outdoors?***

***A.*** No. Outdoor use is not recommended for this clock.

*Operating range is 23 to 131 degrees Fahrenheit.*

***Q: Can this La Crosse Technology clock be wired to control timing circuits?***

***A: No. Modifications to the clock will void the warranty.***

***Q: This movement cannot receive, but other movements have reception inside same room.***

***A: Check battery voltage. 1.48-1.7 volts are best for optimum performance.***

***A: Check that the clock is not within 6 feet of TV-sets, monitors, telephone-sets or other items that may cause interference.***

***Q: Is there a booster antenna to receive the WWVB signal in a difficult location?***

***A: No. Modifications to the clock will void the warranty.***

***Q: Clock spins continually. It does not stop (more than 4min).***

***A: Check battery voltage. 1.48-1.7 volts are best for optimum performance.***

***Q: Hands stop on 4:00, 8:00 or 12:00 forever.***

***A: This is normal restart behavior for the clock. The hands will spin to 4:00, 8:00 or 12:00 and not move until the WWVB signal is received. This may take up to five nights dependent on interferences.***

***Q: Clock receives the WWVB signal, but shows wrong time.***

***A: Check if correct Time Zone is selected. Hold the correct time zone button for 5 seconds and the hands should correct.***

***A: Check battery voltage. 1.48-1.7 volts are best for optimum performance.***

***A: Locate the bronze colored pins in the upper left region of the movement on the back of the clock. Short across the pins briefly with a screwdriver or similar metal object and allow the hands to spin. The hands will stop all pointing at 12 if they are properly aligned. Allow the clock to receive a signal and set itself. Then select the correct Time Zone for your area.***

***Q: Battery was removed and put in again, but the***

**movement does not restart and the hands do not spin.**

**A:** Remove the battery and press the Q-Set button 20 times to discharge electricity. Leave the battery out for 15 minutes. Install a fresh C LR14 alkaline battery. The hands should spin to 4, 8 or 12 o'clock.

**A:** Check battery voltage. 1.48-1.7 volts are best for optimum performance.

## Troubleshooting

The wonderful advantage of owning a radio-controlled clock is that it is virtually trouble free. If the clock receives a clear time signal, it will set itself perfectly. If it does not receive a time signal, consider the following:

- **Battery:** The clock must have a fresh Alkaline battery to receive and process the time signal.
- **Location:** Try a different location, ideally near a window. Your clock should be at least six feet from computers, TVs, air conditioners, other radio-controlled clocks and other electrical appliances that cause interference.
- **Weather:** Electrical storms between you and Colorado during the night will interfere with the WWVB signal.

## Care and Maintenance

- **Do not mix old and new batteries**
- **Do not mix Alkaline, Standard, Lithium or Rechargeable Batteries**
- Always purchase the correct size and grade of battery most suitable for intended use.
- Replace all batteries of a set at the same time.
- Clean the battery contacts and also those of the device prior to battery installation.
- Ensure the batteries are installed with correct polarity (+and -).
- Remove batteries from equipment with is not to be used for an extended period of time.
- Remove used batteries promptly.
- Do not expose to extreme temperature, vibration or shock.
- Clean with a soft damp cloth. Do not use solvents.
- The product is not a toy. Keep it out of reach of children.
- The product is not to be used for medical purpose or for public information. It is intended for home use only.
- The specs of this product may change without prior notice.
- Improper use or unauthorized opening of housing voids warranty.

## Warranty and Support Information

La Crosse Technology, Ltd. provides a 1-year limited time warranty (from date of purchase) on this product relating to manufacturing defects in materials & workmanship.

### View full warranty details online at:

[www.lacrossetechnology.com/warranty\\_info.pdf](http://www.lacrossetechnology.com/warranty_info.pdf)

### For warranty work, technical support or other information contact:

La Crosse Technology, Ltd  
2830 26<sup>th</sup> Street S.  
La Crosse, WI 54601

### Contact Support:

1-608-782-1610

[www.lacrossetechnology.com/support](http://www.lacrossetechnology.com/support)



### Product Registration:

[www.lacrossetechnology.com/support/register](http://www.lacrossetechnology.com/support/register)

## FCC Statement

This Device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) the device must accept any interference received, including interference that may cause undesired operation.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER AUTHORITY TO OPERATE THE EQUIPMENT

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