



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for LA CROSSE TECHNOLOGY WT-3145U. You'll find the answers to all your questions on the LA CROSSE TECHNOLOGY WT-3145U in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

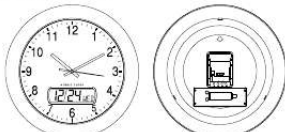
User manual LA CROSSE TECHNOLOGY WT-3145U User guide LA CROSSE TECHNOLOGY WT-3145U Operating instructions LA CROSSE TECHNOLOGY WT-3145U Instructions for use LA CROSSE TECHNOLOGY WT-3145U Instruction manual LA CROSSE TECHNOLOGY WT-3145U



Model WT-3145 Radio Controlled Analog Clock

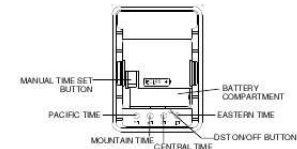
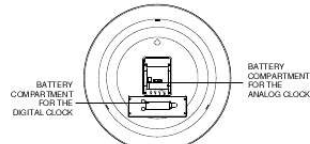
Quick Setup Instructions

Welcome to the world of atomic timekeeping technology. We hope you will enjoy the convenience of never having to set your clock again and the confidence of knowing exactly what time it is.



- Insert 1 new AA, LR6 1.5 volt ALKALINE battery in the analog clock battery compartment according to the polarity marked on the case, then 1 new battery AA, LR6 1.5 V into the digital clock.
- Once the battery is installed, the clock will begin searching for a signal. For the initial setting, it is recommended to stand the clock in an upright position near a window. Within 3 - 10 minutes the clock will either receive the WWVB signal and set itself to the exact time (for the default Pacific Time Zone), or it will determine that the signal is not receivable at its current location and time of day. If the clock does not receive a radio signal soon after activated, the clock will start turning from the 12:00 position and will continue to run. In this case, do not attempt to reset the hands manually even though the time displayed on the clock is incorrect. The clock is synchronizing to the WWVB signal and once the radio signal is decoded, the hands will automatically adjust to the correct time. The clock will fast-forward the hands to the 12 o'clock position immediately and search for WWVB at specific time until a signal is received. If the time is manually set, the clock will continue to periodically search for a signal and automatically reset the hands when the signal is received.
- Press time zone button to select a time zone after the clock received the WWVB signal. If you are in the Pacific Time Zone, you are ready to hang your clock.

If you are not in the Pacific Time Zone, select your time zone by press and holding for 5 seconds, one of the four time zone buttons PT-Pacific Time, MT-Mountain Time, CT-Central Time, ET-Eastern Time. If multiple buttons are pressed, the clock will set to the time zone selected last. If no time zone is selected the clock will default to Pacific Time. If you live in an area that does not recognize DST (Arizona) you must press the (unmarked) DST button for one second to deactivate your clock's DST program. For time zones outside of PT, MT, CT or ET you must manually set the time using the Manual Time set button on the back of the movement. (See instructions below). **Please Note:** WWVB time will override a manual setting.



For a better understanding of how and why your clock works please continue reading.

NOTHING IS MORE PRECISELY MEASURED THAN TIME!

Since the beginning of time, man has been fascinated with the measurement of time and has devised more accurate machines to trap and measure time. Today, time is precisely measured in the United States by the most accurate clock in North America, the Atomic Clock of the US National Institute of Standards and Technology, Time and Frequency Division in Boulder, Colorado. A team of atomic physicists continually measures every second of every day to an accuracy of ten billionths of a second per day. These physicists have created an international standard, measuring a second as 9,192,631,770 vibrations of a Cesium 133 atom in a vacuum. This atomic clock regulates the WWVB radio transmitter located in Fort Collins, Colorado, where the exact time signal is continuously broadcast throughout the United States at 60 kHz to take advantage of stable long wave radio paths found in that frequency range. Radio waves at these low frequencies use the earth and the ionosphere as a wave-guide and follow the curvature of the earth for long distances.

The built-in antenna system will receive the WWVB signal anywhere in North America within 2000 miles of Fort Collins where long-wave radio reception is undisturbed. A microprocessor activates the receiver and processes the time signal from Fort Collins overnight.

Through the radio signals, La Crosse Technology atomic clocks always keep precise time. The changeover from standard time to daylight saving time, and vice versa, takes place automatically with the same precision.

ADDITIONAL DETAILS

To set up your clock simply install one new AA, LRS ALKALINE battery. Due to the nature of long wave radio signals it is normally not possible to receive a signal during the day so it is best to install the battery late in the evening. After the clock sets itself to Pacific Time, select your time zone by pressing one of the four time zone buttons PT-Pacific Time, MT-Mountain Time, CT-Central Time, ET-Eastern Time. Your clock can only set itself to

one of the four time zones stated above. For time zones outside of PT, MT, CT or ET you must manually set the time using the Manual Time set button on the back of the movement. **Please Note:** WWVB time will override a manual setting.

The La Crosse Technology atomic clock is designed for indoor use. For indoor locations, select a location to place your radio controlled clock where it will be at least six feet away from a TV, computer, air conditioner or other household electrical appliances. The optimal location is near a window. Windows facing Colorado provide the best signal.

- Note:**
- Do not submerge clock in water.
 - Extreme temperatures, vibration, and shock should be avoided to prevent damage to the clock.

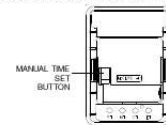
The WWVB time signal will easily penetrate masonry and wood framed buildings. The WWVB signal will penetrate almost every residential building and most steel buildings if they have adequate windows. It is not possible, however, for the WWVB signal to penetrate most indoor shopping malls and rooms in the center of large office buildings that do not have windows. In buildings that WWVB cannot penetrate you may set the time using the manual time set button. When the clock receives the WWVB signal it will automatically set the hands to the exact time.

La Crosse Technology atomic clocks do not receive or process radio controlled time signals from Germany's DCF 77, Japan's J Ga AS, or England's MSF's atomically regulated transmitters. La Crosse Technology atomic clocks can be manually set and used anywhere. **Please Note:** WWVB time will override a manual setting.

For more information on the NIST and radio controlled time, see www.boulder.nist.gov/timefreq.

SET THE TIME USING THE MANUAL TIME SET BUTTON

In some cases, the La Crosse Technology atomic clock may not receive the WWVB signal due to atmospheric disturbances or hard to reach locations such as inside shopping malls. In this case, please use the Manual Time Set button, located at the back of the clock to manually set the time. To do this:



- Remove the battery and press the Manual set button 10 times.
- Insert 1 new AA Alkaline battery.
- Press and hold the Manual Set button until the second hand of the clock moves to the 12 position.
- Release the Manual Set button and again press and hold the Manual Set button. The minute and hour hands will fast-forward while the button is held.
- Keep holding the Manual Set button until the time is set as required.
- Release the button. About 3 seconds later, the second hands will start to move and the clock is now running with manual time.

Note: When the clock displays manual time, it will continue to try to receive the WWVB signal at each of the even numbered times: 0:00, 2:00, 4:00, 6:00, ... 20:00 & 22:00.



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Manual abstract:

@@Please Note: WWVB time will over ride a manual setting. The La Crosse Technology atomic clock is designed for indoor use. For indoor locations, select a location to place your radio controlled clock where it will be at least six feet away from a TV, computer, air conditioner or other household electrical appliances. The optimal location is near a window. Windows facing Colorado provide the best signal. Note: Model WT-3145 Radio Controlled Analog Clock Quick Setup Instructions Welcome to the world of atomic timekeeping technology. We hope you will enjoy the convenience of never having to set your clock again and the confidence of knowing exactly what time it is. BATTERY COMPARTMENT FOR THE DIGITAL CLOCK BATTERY COMPARTMENT FOR THE ANALOG CLOCK Do not submerge clock in water. Extreme temperatures, vibration, and shock should be avoided to prevent damage to the clock.

MANUAL TIME SET BUTTON PACIFIC TIME MOUNTAIN TIME The WWVB time signal will easily penetrate masonry and wood framed buildings. The WWVB signal will penetrate almost every residential building and most steel buildings if they have adequate windows. It is not possible, however, for the WWVB signal to penetrate most indoor shopping malls and rooms in the center of large office buildings that do not have windows. In buildings that WWVB cannot penetrate you may set the time using the manual time set button. When the clock receives the WWVB signal it will automatically set the hands to the exact time. BATTERY COMPARTMENT EASTERN TIME DST ON/OFF BUTTON CENTRAL TIME La Crosse Technology atomic clocks do not receive or process radio controlled time signals from Germany's DCF 77, Japan's J Ga AS, or England's MSFs atomically regulated transmitters.

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If the time is manually set, the clock will continue to periodically search for a signal and automatically reset the hands when the signal is received. For a better understanding of how and why your clock works please continue reading. SET THE TIME USING THE MANUAL TIME SET BUTTON In some cases, the La Crosse Technology atomic clock may not receive the WWVB signal due to atmospheric disturbances or hard to reach locations such as inside shopping malls. In this case, please use the Manual Time Set button, located at the back of the clock to manually set the time. To do this: NOTHING IS MORE

PRECISELY MEASURED THAN TIME! Since the beginning of time, man has been fascinated with the measurement of time and has devised more accurate machines to trap and measure time. Today, time is precisely measured in the United States by the most accurate clock in North America, the Atomic Clock of the US National Institute of Standards and Technology, Time and Frequency Division in Boulder, Colorado. A team of atomic physicists continually measures every second of every day to an accuracy of ten billionths of a second per day. These physicists have created an international standard, measuring a second as 9,192,631,770 vibrations of a Cesium 133 atom in a vacuum. This atomic clock regulates the WWVB radio transmitter located in Fort Collins, Colorado, where the exact time signal is continuously broadcast throughout the United States at 60 kHz to take advantage of stable long wave radio paths found in that frequency range. Radio waves at these low frequencies use the earth and the ionosphere as a wave-guide and follow the curvature of the earth for long distances.

@@@2. 3. 4. Remove the battery and press the Manual set button 10 times. Insert 1 new AA Alkaline battery. @@@The minute and hour hands will fast-forward while the button is held. Keep holding the Manual Set button until the time is set as required. Release the button. @@@If no time zone is selected the clock will default to Pacific Time. @@@(See instructions below).

@@@20:00 & 22:00. 1 DIGITAL CLOCK 1. 2. @@@Wait for the digital clock to receive the WWVB time and date from the analog clock. Then the digital clock will start normal runs.

BATTERY COMPARTMENT COVER DISPLAY KEY TIME SET KEY (FOR WORLD TIME) BATTERY COMPARTMENT Month & day / Indoor temperature Month & day / Weekday 3. and must be returned to La Crosse Technology, Ltd. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer. La Crosse Technology, Ltd will pay all expenses for labor and materials for all repairs covered by this warranty. If necessary repairs are not covered by this warranty, or if a product is examined which is not in need or repair, you will be charged for the repairs or examination.

The owner must pay any shipping charges incurred in getting your La Crosse Technology, Ltd product to a La Crosse Technology, Ltd authorized service center. La Crosse Technology, Ltd will pay ground return shipping charges to the owner of the product to a USA address only. Your La Crosse Technology, Ltd warranty covers all defects in material and workmanship with the following specified exceptions: (1) damage caused by accident, unreasonable use or neglect (including the lack of reasonable and necessary maintenance); (2) damage occurring during shipment (claims must be presented to the carrier); (3) damage to, or deterioration of, any accessory or decorative surface; (4) damage resulting from failure to follow instructions contained in your owner's manual; (5) damage resulting from the performance of repairs or alterations by someone other than an authorized La Crosse Technology, Ltd authorized service center; (6) units used for other than home use (7) applications and uses that this product was not intended or (8) the products inability to receive a signal due to any source of interference. This warranty covers only actual defects within the product itself, and does not cover the cost of installation or removal from a fixed installation, normal set-up or adjustments, claims based on misrepresentation by the seller or performance variations resulting from installation-related circumstances. LA CROSSE TECHNOLOGY, LTD WILL NOT ASSUME LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR OTHER SIMILAR DAMAGES ASSOCIATED WITH THE OPERATION OR MALFUNCTION OF THIS PRODUCT. @THIS PRODUCT IS NOT A TOY. KEEP OUT OF CHILDREN'S REACH. This warranty gives you specific legal rights. You may also have other rights specific to your State. @@@S.

@@It will receive the WWVB time from the analog clock.



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The time format is fixed to "12-hr" time display. "PM" will be shown in hours from noon to midnight. The calendar will also be updated once the WWVB signal from the analog clock has been received. TROUBLESHOOTING The wonderful advantage of owning a La Crosse Technology atomic clock is that it is virtually trouble free. If the clock receives a clear signal it will set itself perfectly. If it does not receive a signal consider the following: Battery The La Crosse Technology atomic clock must have a fresh battery to receive and process the time signal. WORLD TIME SETTING: This feature allows you to choose a 2nd time to be displayed from anywhere in the world you choose. The world time can be manually adjusted by 1hour increment (24 hour time zone). Press the Time Set key to enter world time setting.

Press again the Time Set key to set the desired world time; each pressing of the key will increase the world time by 1 hour. Location - Try a different location, ideally near a window. It should be at least six feet from computers, TVs, air conditioners, other atomic clocks and other electrical appliances that cause interference. Weather - Electrical storms between you and Colorado during th.



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