

WWVB Radio Controlled Analog Bathroom Clock

FUNCTION:

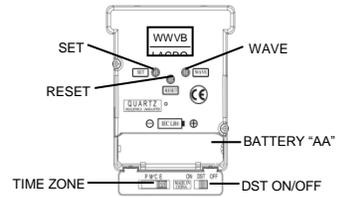
- Time (WWVB RC Time)
- Indoor temperature

QUICK SETUP:

1. Remove back cover to expose movement
2. Select time zone and DST setting.
3. Insert 1 AA alkaline battery.
4. THAT'S IT!

DETAILED SETUP:

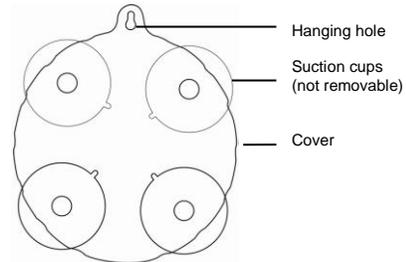
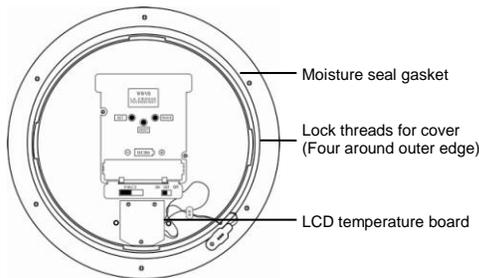
- Twist the back counter-clockwise to remove from the radio controlled bathroom clock.
- Select your **time zone**. Move time zone switch to appropriate zone: P (UTC-8 Pacific Time), M (UTC-7 Mountain Time), C (UTC-6 Central Time), E (UTC-5 Eastern Time)
- Select the **Daylight Saving Time** Auto Adjust feature. Move the DST switch to "ON" or "OFF". The Daylight Saving Time feature is disabled when the switch is "OFF".
- Insert 1 new AA, LR6 1.5 volt ALKALINE battery in the analog clock battery compartment according to the polarity marked on the case.
 - With the battery is installed, the **radio reception mode is activated** and the second, minute and hour hands will automatically move to the 12:00 position.
 - Once the hands are in the 12:00 position, the movement will search for the WWVB radio signal. The clock will search for 3 to 10 minutes after all hands have set to the 12:00 position.
 - When the signal is found within the first 3 to 10 minutes, the clock will set to the correct time.
 - If the clock does not receive a radio signal soon after activated, **the clock will start running from the 12:00 position and will continue to run**. In this case, do not attempt to manually set the hands, 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.
 - Allow up to 5 nights for signal reception.
- **Internal Synchronization:** Once the clock has been set correctly by the radio signal, the clock's CPU operates continuously. To ensure accuracy, the clock synchronizes the position of the second and minute hands to the time calculated by the CPU every day. Second hand synchronization occurs at 1:30 a.m. and 9:30 a.m. and minute hand synchronization occurs between 1:50 and 2:01 am every day.
- **Signal Interference:** In some cases, the signal can be 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, move the clock to a different location. Place the clock near an outside wall closest to the direction of Colorado. Avoid placing the clock near electrical items such as TVs, microwave ovens and computers.



INDOOR TEMPERATURE: Displayed in the LCD at the bottom of the clock.

- The surrounding temperature is displayed immediately after inserting the battery.
- The radio controlled bathroom clock can be used at a permanent ambient temperature between 32°F to 122°F.

Important: Do not touch the LCD temperature board or wires on the back of the clock. This may cause permanent damage. The temperature is **not** adjustable.



MOUNT THE CLOCK: Before mounting the clock on the wall, be sure the cover is snugly screwed on the back of the clock. This protects the clock from moisture and provides a secure mount. There is a gasket to prevent moisture where the cover screws onto the clock. The radio controlled bathroom clock can be mounted with suction cups or with the hanging hole.

Mount with suction cups: The suction cups of your radio controlled bathroom clock are used for attachment to **smooth** surfaces such as tiles (the tiles should be polished, the suction cups do not adhere to matte tiles), mirrors and glass surfaces etc. Textured surfaces will not allow proper vacuum and the suction cups will not hold.

1. **Moisten the suction cups** before attaching them to improve suction.
2. Press the clock firmly to the smooth surface.

Important:

- The suction cups adhere only to smooth surfaces.
- Since the suction cups, similar to all other suction cups, can detach after a while, occasionally press them firmly against the surface and check the adherence of the radio controlled bathroom clock.
- Do not attach your radio controlled bathroom clock to an area where it will receive direct water contact since the clock is protected only against moisture. Intensive contact with water could lead to malfunctions.
- Clean the surface where you mount your radio controlled bathroom clock. The surface must be free of dust and grease.
- Mount your radio controlled bathroom clock in a place where nothing could be damaged if the clock detaches itself and falls down. Please note that glass breakage is not covered by the warranty.
- Do not attach one of the suction cups directly over a tile joint, since no vacuum can develop and the suction cup does not hold.

Detach suction cups from wall: When you want to detach the radio controlled bathroom clock from a surface, please lift the suction cups at the edge one by one while holding the clock. This enables air to enter underneath the suction cup and it will detach from the surface.

Note: Do not pull directly at the clock to detach it to avoid damage to the unit or the surface.

Mount with hanging hole:

- A hanging hole is available on the back cover to mount the clock in addition to or instead of the suction cups (suction cups are not removable).
- Install a mounting screw (not included) into a wall leaving approximately ½ inch to 1 inch extended from the wall.
- Place the atomic clock onto the screw, using the hanging hole on the backside.
- Gently pull the atomic clock down to lock the screw into place. Always ensure that the atomic clock locks onto the screw before releasing.

Note: Suction cups are not removable.

WWVB RADIO CONTROLLED TIME

The NIST radio station, WWVB, is located in Ft. Collins, Colorado and transmits the exact time signal continuously throughout the United States at 60 kHz. The signal can be received up to 2,000 miles away through the internal antenna in the Atomic Clock. However, due to the nature of the Earth's Ionosphere, reception is very limited during daylight hours. The Atomic Clock will search for a signal every night when reception is best. The WWVB radio station derives its signal from the NIST Atomic Clock in Boulder, Colorado.

MANUAL TIME SET: On rare occasions in certain areas, the clock may not be able to utilize the radio controlled function because of either 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.

- **Set the clock:** Press and hold the SET button for 3+ seconds to activate the manual mode.
- Once the clock is in manual mode, there are two ways to move the minute hand forward. Hold the SET button down to move the minute hand forward consistently. Or, press the SET button rapidly (more than once per second) to move the minute hand forward step by step (in minute increments). Use these features to move the minute hand forward until the correct time is set. The clock will automatically leave manual mode after the SET button is not pressed for 6+ seconds.

RESET: If the clock does not respond to the various function modes, reset the clock by pressing the RESET button on the movement.

WAVE BUTTON: The WAVE button can be used to attempt an enforced signal receipt. (Allow up to 5 nights for signal reception before using the WAVE button). To activate, hold the WAVE button down for 3+ seconds. Once the WAVE feature is activated, the hands will automatically reset to the 12:00 position, and the movement will attempt to enforce a signal receipt from Fort Collins, CO. If the movement successfully receives the signal, the clock will reset automatically to the correct time. Generally, the signal enforced receipt takes approximately 3-8 minutes. If the clock still fails to receive the signal while in the WAVE mode, the clock will automatically leave the WAVE mode. In this case, set the clock manually according to manual set below and the time keeping function will be controlled by the movement's micro-CPU.

CHANGE BATTERY:

Open the back cover by twisting anti-clockwise the casing cover of the radio controlled bathroom clock. Be careful to insert the battery (1.5 V AA – LR6 battery) with the correct polarity, since a battery inserted in the wrong polarity can cause damage to the clockwork. Close the back cover again. Replace the battery only with equal battery types.

Signs of weak battery:

- Hands stop
- Hands turn very quickly
- Temperature display is faint or fades totally

SPECIFICATIONS:

Indoor Temperature range:	32°F to 122°F
Accuracy:	+/-3.6F
Temperature resolution:	0.1°F
Radio controlled clock:	WWVB
Power requirement:	1 AA LR6 alkaline battery.

WARRANTY:

La Crosse Technology, Ltd provides a 1-year limited warranty on this product against manufacturing defects in materials and workmanship.

This limited warranty begins on the original date of purchase, is valid only on products purchased and used in North America and only to the original purchaser of this product. To receive warranty service, the purchaser must contact La Crosse Technology, Ltd for problem determination and service procedures. Warranty service can only be performed by a La Crosse Technology, Ltd authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to La Crosse Technology, Ltd or La Crosse Technology, Ltd's authorized service center.

La Crosse Technology, Ltd will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of La Crosse Technology, Ltd 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 the 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.

The 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 the 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 TO BE USED FOR MEDICAL PURPOSES OR FOR PUBLIC INFORMATION. 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 the State. Some States do not allow the exclusion of consequential or incidental damages therefore the above exclusion of limitation may not apply to you.

For warranty work, technical support, or information contact:

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