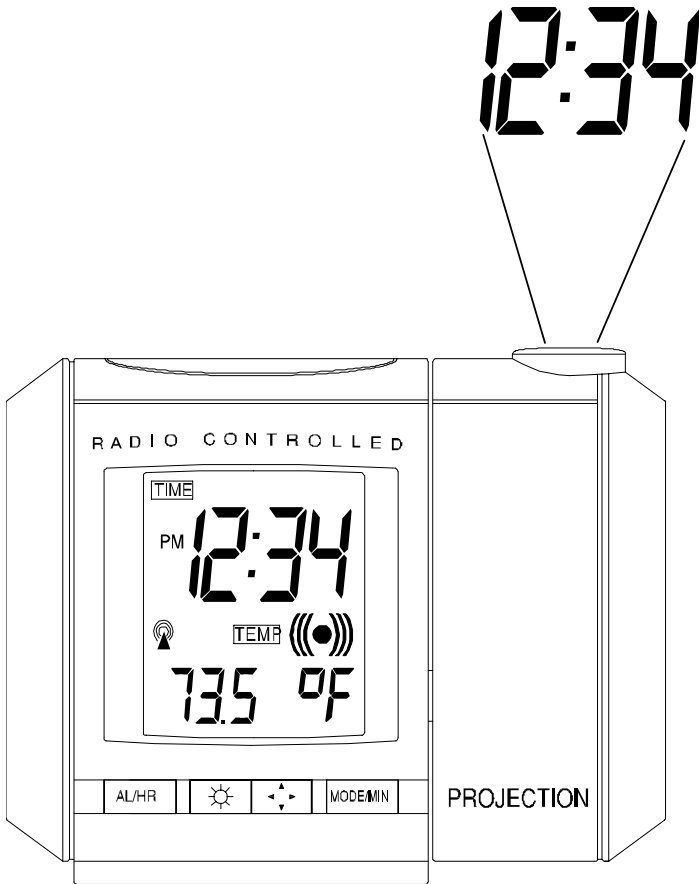


WT-5360U
433 MHz
Radio Controlled Alarm Clock
With Projection Time

Instruction Manual



LA CROSSE
TECHNOLOGY

technology tools
for home & office

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INVENTORY OF CONTENTS

1. WT-5360 Alarm Clock
2. AC adapter/transformer
3. Instruction manual and warranty card.

ADDITIONAL EQUIPMENT (not included)

Two fresh 1.5V AA alkaline batteries (optional when using AC adapter)

FEATURES OF PROJECTION ALARM CLOCK

Operation of these features is in section III.

1. Time Zone Setting
2. Manual Time Display
3. Year Setting
4. Calendar Display
5. Time Display in 12/24 Hour Mode
6. Indoor Temperature Display
7. Daylight Saving Time (DST) On/Off

GLOSSARY OF COMMON TERMS

LCD

"LCD" is an acronym for "Liquid Crystal Display". This is a common type of display screen used in televisions, computers, watches, and digital clocks.

LED

"LED" is an acronym for "Light-Emitting Diode". This type of light is used to illuminate a variety of displays such as a digital clock or watch.

NIST

The National Institute of Standards and Technology (Time and Frequency division) maintains the primary frequency standard for the United States. The NIST also coordinates the United States time and frequency standards with other world standards. The NIST provides time and frequency services for United States clientele.

WWVB

The WWVB is an AM radio station in Ft. Collins, Colorado, managed by the NIST. The WWVB's function is to broadcast time-of-day information derived from the NIST atomic clock, located in Boulder, Colorado.

ATOMIC CLOCK

An atomic clock is an extremely accurate time device measuring time by the movements of electrons in cesium atoms. The NIST atomic clock is one of the most precise clocks in the world, accurate to 10 billionths of one second. The NIST's atomic clock contributes to the international group of clocks calculating the Coordinated Universal Time (UTC)—the official world time.

RADIO CONTROLLED TIME

A radio controlled time device is often confused with an atomic clock. However, a radio controlled time device receives its time information *from* the atomic clock each day through an internal antenna. The radio controlled time device searches for an exact time signal every night when the signal from the WWVB is the strongest. The signal can be received up to 2,000 miles away through a radio controlled time device.

For more information regarding the NIST, WWVB, atomic clock, and radio controlled time, please visit the NIST official website: <http://www.boulder.nist.gov/timefreq/stations/wwvb.htm>

I. QUICK SET-UP GUIDE

Hint: Use good quality alkaline batteries and avoid rechargeable batteries.

1. We recommend beginning the set-up procedure at night when the WWVB signal is easiest to receive.
2. It is also highly recommended to set the projection alarm in a window or other area free of interference in the area of your home that is closest to Colorado (the source of the WWVB signal).

NOTE: The above steps are not required but can help the projection alarm receive the signal faster.

3. Install the batteries in the projection alarm clock.
4. DO NOT PRESS ANY BUTTONS FOR 15 MINUTES.

NOTE: It is important to not press any buttons after inserting batteries as this will interrupt the WWVB search sequence.

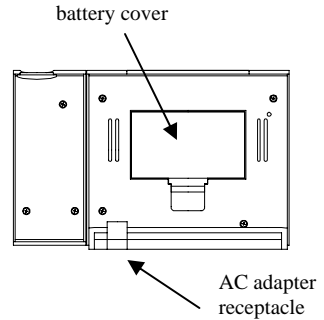
In this time the display will show the indoor temperature. If the station does not display the indoor temperature after the 15 minutes please retry the set-up as stated above. After the indoor temperature displays for 15 minutes you may place the projection alarm in your desired location.

To complete the set-up of your temperature station after the 15 minutes have passed, please follow the steps beginning on page 6.

II. DETAILED SET-UP GUIDE

A. BATTERY INSTALLATION

1. Remove the battery cover on the backside of the projection alarm.
2. Observe the correct polarity, and install 2 AA batteries.
3. In addition to or instead of installing batteries, the AC adapter can be used. Simply plug the adapter into the receptacle on the underneath side of the alarm clock, and then plug in the adapter.
4. Replace the battery cover.
5. The projector will activate and remain on if the alarm clock is plugged in. If only batteries are used, the projector will only be activated when a button is pressed. The projection is a red light, not harmful under normal usage, although care should be taken to not look directly into the light.



Notes:

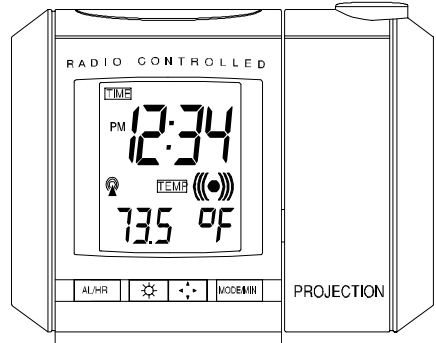
- After the batteries have been installed, the LCD will activate, and you will hear a beep.
- The indoor temperature will be displayed, and the time will appear as "12:00 AM".
- The WWVB search is automatically initiated, and a tower icon appears and flashes with the time colon (no tower icon will appear if the WWVB is too weak to be detected, and the time display will start from 12:00 AM).
- While the WWVB search is being conducted various numbers will appear in the time display.
- After 15 minutes, the projection alarm will either display the WWVB time, or discontinue the search if the time is not found. If the search is cancelled the time will continue from 12:00 AM.
- The projection alarm will conduct a WWVB search every hour until the first signal is found.
- Once the WWVB time is found, a search is automatically conducted nightly at midnight.
- If the signal is found at midnight, the tower icon will remain, if not, another search will take place every hour (until 6:00 AM) until the signal is found successfully.
- If no signal is found during this period, the tower icon will not appear, and the clock will search again at midnight the next night.
- The radio-controlled time receiver is located on the bottom side of the projection alarm. When using the AC adaptor be sure to keep the adapter cord away from the bottom side of the unit; as it can cause weakened reception of the radio controlled signal.

III. PROGRAM MODE

To enter the Program Mode, hold down the "MODE/MIN" button for 3 seconds, until the time zone flashes at the bottom of the display. The Program Mode Guide is laid out in a manner that allows you to program each function separately, or you can follow the instructions entirely to program the projection alarm. Complete programming is usually done for the initial set-up, and will require you to skip step 1 and 2 of programming sections D-H. To exit the setting mode simply wait approximately 10 seconds for the projection alarm to automatically return to normal operation.

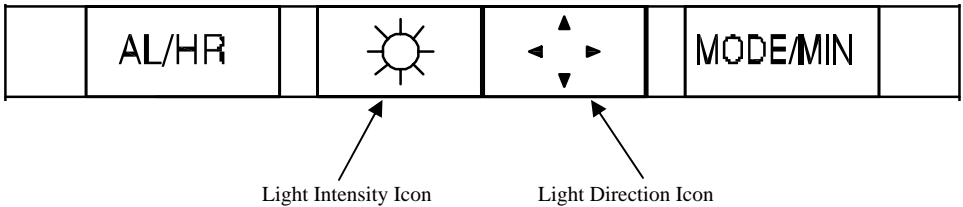
A. PROGRAMMING SEQUENCE

1. Time Zone Setting
2. Manual Time Display
3. Year Setting
4. Calendar Display
5. Time Display in 12/24 hour Mode
6. Indoor Temperature Display
7. Daylight Saving Time On/Off



B. FUNCTION BUTTONS

There are 4 function buttons located on the front of the projection alarm and one on the top. The function buttons are labeled (from left to right): AL/HOUR, light intensity, light direction, MODE/MIN, and SNOOZE (the top bar).



C. TIME ZONE SETTING

1. Hold down the "MODE/MIN" button for 3 seconds; the time zone will appear and begin to flash in the bottom section of the LCD.
2. Use the "MODE/MIN" button to toggle through the time zones and select the appropriate zone. There are 24 time zones to choose from (based relative to the international time standard of GMT (Greenwich Mean Time).
3. Press and release the "SNOOZE" bar to confirm selection and advance to the next section of the set-up.

4.	-4h	Atlantic Time
	-5h	Eastern Time (default setting)
	-6h	Central Time
	-7h	Mountain Time
	-8h	Pacific Time
	-9h	Alaskan Time
	-10h	Hawaiian Time
	-11h, -12h	Next two time zones West of HAW
	0h	Greenwich Mean Time
	-1h, -2h, -3h	Three time zones West of GMT

NOTE: The U.S. time zones will show abbreviations as opposed to the numerical time zone indicator. For example Eastern Time will display “ET” when the Eastern Time Zone is selected

5. Press and release the “SNOOZE” bar to confirm the time zone setting and advance to the Manual Time Setting.

D. MANUAL TIME SETTING

1. Hold down the “MODE/MIN” button for 3 seconds, the time zone will appear flashing at the bottom of the LCD.
2. Press the “SNOOZE” bar once to advance to set correct time (time will begin to flash).
3. Press and release the “AL/HOUR” button to advance the hours, and press and release the “MODE/MIN” button to advance the minutes.

NOTE: “AM” or “PM” will be displayed to the left of the time to help identify the time.

4. Press and release the “SNOOZE” bar to confirm the time setting and to advance to the Year Setting.

E. YEAR AND DATE SETTING

1. Hold down the “MODE/MIN” button for 3 seconds; the time zone will appear flashing at the bottom of the LCD.
2. Press the “SNOOZE” bar 2 times to advance to the year setting. Press and release the “MODE/MIN” button to advance to the appropriate year.
3. Press and release the “SNOOZE” bar to confirm the year setting and to advance to the Date Setting.

NOTE: The year display will appear in set-up mode only and has a range from the years 2000 to 2049.

4. Press and release the “MODE/MIN” button to advance to the correct month, and press and release the “AL/HR” button to advance to the correct day.
5. Press and release the “SNOOZE” bar to confirm the date setting and to advance to the day of the week setting.
6. Press and release the “MODE/MIN” button to advance to the correct day of the week (MO=Monday, TU=Tuesday, WE=Wednesday, TH=Thursday, FR=Friday, SA=Saturday, SU=Sunday).
7. Press and release “SNOOZE” bar to confirm selection and advance to the 12/24-Hour Clock Setting.

F. 12/24-HOUR CLOCK SETTING

1. Hold down the "MODE/MIN" button for 3 seconds; the time zone will appear flashing at the bottom of the LCD.
2. Press and release the "SNOOZE" bar 5 times to advance to the 12/24-hour clock setting.
3. Press and release the "MODE/MIN" button to select either a 12-hour clock or a 24-hour clock.
4. Press and release the "SNOOZE" bar to confirm selection and advance to the Indoor Temperature Display.

G. INDOOR TEMPERATURE DISPLAY

1. Hold down the "MODE/MIN" button for 3 seconds; the time zone will appear flashing at the bottom of the LCD.
2. Press and release the "SNOOZE" bar 6 times to advance to the indoor temperature display setting.
3. Press and release the "MODE/MIN" button to select either Fahrenheit or Celsius (Fahrenheit is the default).
4. Press and release the "SNOOZE" bar to confirm selection and advance to Daylight Saving Time setting.

H. DST (DAYLIGHT SAVING TIME) SETTING

Note: The DST default is "On", meaning that the WWVB will automatically change the time according to Daylight Saving Time in the spring and fall. For areas that do not recognize DST changes (Arizona and parts of Indiana) turn the DST "OFF".

1. Hold down the "MODE/MIN" button for 3 seconds, the time zone will appear flashing at the bottom of the LCD.
2. Press and release the "SNOOZE" bar 7 times to advance to the DST setting.
3. "DST" will appear in the indoor temperature section of the LCD, and "ON" or "OFF" will flash in the time section.
4. Press and release the "MODE/MIN" button to toggle between DST ON and OFF.
5. Press and release the "SNOOZE" bar to confirm the DST setting and complete the set-up sequence.

IV. FEATURES & OPERATIONS

A. FEATURES

1. Radio Controlled Time
2. Time Projection
3. LED Backlight
4. Indoor Temperature
5. Time Alarm
6. Calendar
7. Second Display

B. RADIO CONTROLLED TIME

1. The projection alarm will automatically search for the time signal upon initial set-up and every night.
2. When the signal is being received, there will be a "tower" icon flashing to the left of the time display.

3. When the time signal has been received successfully, the tower icon will remain steady until midnight.
4. The projection alarm will search for a signal every night when reception is best.
5. It is possible that your projection alarm may not be exactly on the second due to the variance in the quartz. However, the clock will adjust the quartz timing over the course of several days to be very accurate--under 0.10 seconds per day.

C. TIME PROJECTION

1. When plugged into an AC outlet, the projection alarm can continuously project the time.
2. When operating on batteries alone, the projection alarm will only project when the snooze button is pressed or the alarm is sounding.
3. The projection will auto-focus for optimal display from 5.5 to 6.5 feet (1.7 to 2.0 m) away. A dark surrounding will be necessary to clearly see the projection.
4. The direction of the display can also be rotated 360° in 90° increments by pressing the directional button. There is no display on the LCD that signifies the direction.
5. The projector case can be rotated 180° to further help orient the projected display.

D. LED BACKLIGHT

1. The projection alarm has an LED light designed for night viewing. This will light up for 2 seconds whenever a button is pressed.
2. The LED light cannot be turned on constantly; this would drain the batteries and burn out the light.

E. INDOOR TEMPERATURE

1. The projection alarm measures indoor temperature with an internal sensor.
2. This temperature is displayed in °F.
3. The indoor temperature will take time to adjust to the surrounding temperature as the sensor is inside the case.
4. The indoor temperature will display upon initial set-up at the bottom of the LCD.

F. TIME ALARM

1. SETTING THE ALARM
 - a. Press and hold "AL/HOUR" button for 3 seconds until the alarm time is flashing.
 - b. Press and release the "AL/HOUR" button to advance the hour, and the "MODE/MIN" button to advance the minute.
 - c. The projection alarm will revert to normal operation when no buttons are pressed for 15 seconds. The alarm is now set and activated.
2. ACTIVATING/DEACTIVATING THE ALARM
 - a. After entering the alarm-setting mode, the alarm is activated.
 - b. To toggle between activating and deactivating the alarm, press the "AL/HOUR" button briefly. "(((•)))" will be displayed above the alarm display when the alarm is activated.
3. TURNING ALARM OFF (WHILE SOUNDING)
 - a. While the alarm is sounding, press and release the "SNOOZE" bar to disable the alarm for 5 minutes.
 - b. After the "SNOOZE" bar is pressed the alarm icon will flash.



- c. To disable the alarm for 24 hours, press and release any button other than the “SNOOZE” bar or display direction buttons.

NOTE: The alarm will sound in a 3-step crescendo for 80 seconds if the “SNOOZE” bar is not pressed.

4. VIEWING TIME ALARM

- a. To momentarily view the time the alarm is set for, press and hold down the “SNOOZE” bar for 2 seconds, and the alarm time will appear for 2 seconds. The clock will automatically return to normal operations after the 2 seconds.
- b. To set the LCD to display alarm time, press the “MODE/MIN” button and toggle through display choices until a time with “AL” appears.

G. CALENDAR

To set the bottom of the LCD to display the day and date press the “MODE/MIN” button and toggle through display choices until the day of the week and the date appear.

H. SECOND DISPLAY

To set the bottom of the LCD to display the seconds, press the “MODE/MIN” button and toggle through the display choices until the seconds appear.

V. MAINTENANCE & CARE

- A. Avoid extreme temperatures, vibrations, and shock to prevent damage to the units.
- B. Clean displays and units with a soft, damp cloth. Do not use solvents or scouring agents—they may mark and damage the displays and casings.
- C. Do not submerge in water.
- D. Remove all low powered batteries immediately to avoid leakage and damage.
- E. Replace with new batteries only--and of recommended size.
- F. Opening the casings invalidates the warranty. Do not try to repair the units. Contact La Crosse Technology for Repairs.

VI. TROUBLESHOOTING

Problem:	The Projection is faint
Solution:	1) Change intensity setting 2) Use AC adapter 3) Darken surroundings 4) Use fresh batteries (if AC is not used)
Problem:	The LCD is faint.
Solution:	Replace the batteries.
Problem:	“OFL” appears in the indoor temperature LCD.
Solution:	1) Move unit to an area with warmer or cooler surrounding temperature. 2) Current surrounding temperatures are outside measuring range.
Problem:	No reception of WWVB signal.
Solution:	1) It may help reception to face the front of the projection alarm in the general direction of Ft. Collins, Colorado.

	2) Wait overnight for signal. 3) Be sure the projection alarm is at least 6 feet from any electrical devices, i.e. TV sets, computers, or other radio controlled clocks. 4) Remove batteries for five minutes, reinsert and leave the unit alone overnight without pressing buttons. 5) If problems persist contact La Crosse Technology.
Problem:	Hour is incorrect (minute is correct).
Solution:	Be sure correct time zone and daylight saving time are selected.

Note: For any questions not answered, contact La Crosse Technology with the contact information found at the end of this instructional manual.

VII. SPECIFICATIONS FOR WT-5360

Temperature:	
Measuring range:	32°F to 99.9°F(0°C to +49.9°C) with 0.2°F(0.1°C) resolution. NOTE: "OFL" will display when temperature is out of this range.
Checking intervals:	Every 10 seconds
Power source:	
AC Adapter (included)	Input: 120VAC/60Hz Output: DC 6V/100MA
Battery type:	2 x AA, 1.5V (alkaline recommended) (optional)
Battery life:	Approximately 12 months, depending on projection and backlight use
Dimensions (L x D x H):	
Projection Alarm Clock	4.6"L x 3.67"D x 2"H (116.7L x 51.3D x 93.1H mm)

WARRANTY INFORMATION

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 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 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 your 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:

La Crosse Technology
2809 Losey Blvd. S.
La Crosse, WI 54601
Phone: 608.782.1610
Fax: 608.796.1020

e-mail:

support@lacrossetechnology.com

(warranty work)

sales@lacrossetechnology.com

(information on other products)

web:

www.lacrossetechnology.com

FCC DISCLAIMER

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) this device must accept any interference received, including interference that may cause undesired operation.

La Crosse Technology
Made in China
WT-5360

FCC ID: OMO-01RX (Receiver),

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. THIS DEVICE MUST ACCEPT INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.**

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