Ambient Weather RC-8473 Jumbo Memory Clock with Extra Large Non-Abbreviated Day & Month, Alarm, and Radio Controlled Time User Manual

Table of Contents

1. Introduction

Thank you for your purchase of the Ambient Weather RC-8473 Jumbo Memory Clock with Extra Large Non-Abbreviated Day & Month, Alarm, and Radio Controlled Time. The following user guide provides step by step instructions for installation, operation and troubleshooting. To download the latest full sized manual and additional troubleshooting tips, please visit:

http://ambientweather.wikispaces.com/rc8473

This clock is intended for indoor use only.

2. Getting Started

2.1 Product Features
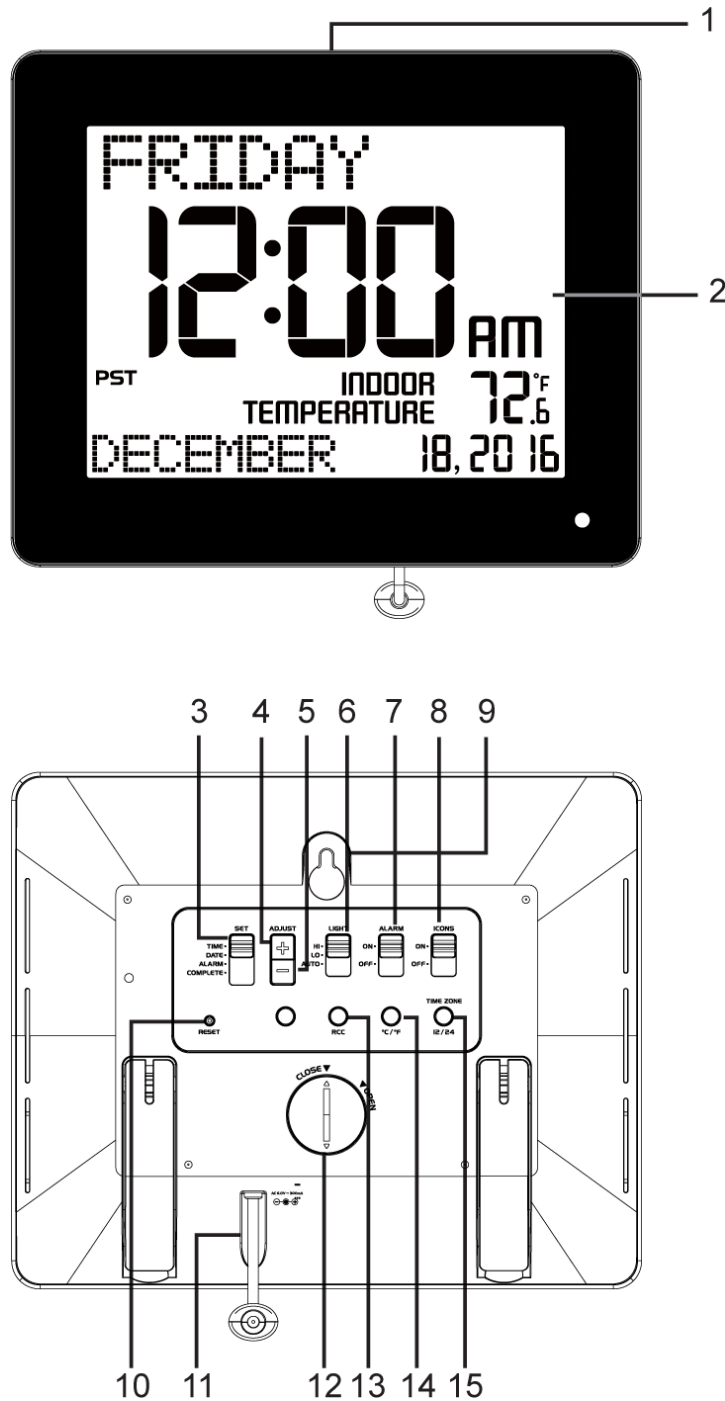
Figure 1

No	Description	No	Description
1	**ALARM/SNOOZE** button - Press to stop the current alarm from sounding and enter the snooze mode.	9	Wall-mounting suspension eye

No	Description	No	Description
	- Press and hold for 2 seconds to stop the current alarm from sounding for 24 hours.		
2	**LCD** Display	10	**RESET** key - In case of malfunction, press to reset to factory default.
3	**SET** slide switch - Slide to the **TIME** position to enter the time set mode. - Slide to the **DATE** position to enter the date set mode. - Slide to the **ALARM** position to enter the alarm set mode. - Slide to the **COMPLETE** position to save and exit the time, date or alarm setting, and return to normal mode.	11	AC jack - AC 6V 300mA.
4	**[-]** button - In **SET** mode, press to decrease the value (press and hold to change rapidly). - In normal mode, press twice to select the desired language.	12	Battery door - Accommodates button cell battery CR2032 for back-up power when AC power is lost.
5	**[+]** button - In **SET** mode, press to increase the value (press and hold to change rapidly). - In normal mode, press twice to select the desired language.	13	**RCC** button - Press to manually attempt RCC reception.
6	**HI / LO / AUTO** key - Slide to the **HI** position to set the backlight to high. - Slide to the **LO** position to set the backlight to low. - Slide to the **AUTO** position, and the backlight will automatically adjust based on the ambient room lighting (dims in low light).	14	°**C**/°**F** button - Press it to switch between Celsius and Fahrenheit.
7	**ALARM ON / OFF** slide switch - Slide to the **ON** position to turn on the alarm. - Slide to the **OFF** position to turn off the alarm.	15	**TIME ZONE / 12/24** button - In the normal mode, press to switch between 12 and 24 hour format. - In the time setting mode, press to switch the desired time zone.
8	**ICONS ON / OFF** slide switch - Slide to the **ON** position to activate all icons and indoor temperature reading (alarm clock mode). - Slide to the **OFF** position deactivate all icons and temperature reading (memory clock mode).		

2.2 LCD Display
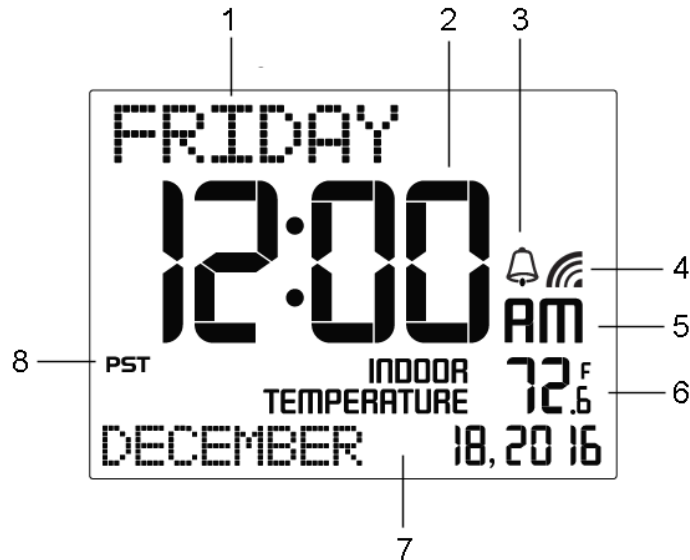
No	Description	No	Description
1	Day of Week	5	AM/PM
2	Time	6	Indoor Temperature
3	Alarm Icon	7	Calendar Date
4	Radio Controlled Clock reception icon		

2.3 Parts List

QTY	Item
1	Clock Frame Dimensions (LxWxH): 8.75" x 7.00" x 1.00"
1	User Manual

2.4 Powering Up

Important Note: The power up sequence must be performed in this order (battery first, AC adapter second) to prevent a low battery indication at power up.

1. Energize the battery by releasing the pull tab on the back of the clock.
2. Plug the AC adaptor into the DC jack of the clock.

2.5 Radio Controlled Clock

3 Eight seconds after power up, the clock begin radio controlled clock (RCC) reception and the RCC search icon will turn on.   The RCC will continue to search for six minutes. It will try again every two hours.

4

RCC Icon	Description	RCC Icon	Description
	No signal		Acceptable signal

	Weak signal			Excellent signal

Figure 2

If the time is incorrect by increments of an hour, or does not change on your radio controlled clock (RCC), please reference the Troubleshooting Guide (Section 7).

The clock will automatically search for the time signal at 2:00, 8:00, 14:00 (2pm) and 20:00 (8pm).

To manually start or stop the RC signal reception, press the **RCC** button.

3. Settings

3.1 Radio Controlled Clock On/Off

Press and hold **RCC** button for 8 seconds to disable the reception.
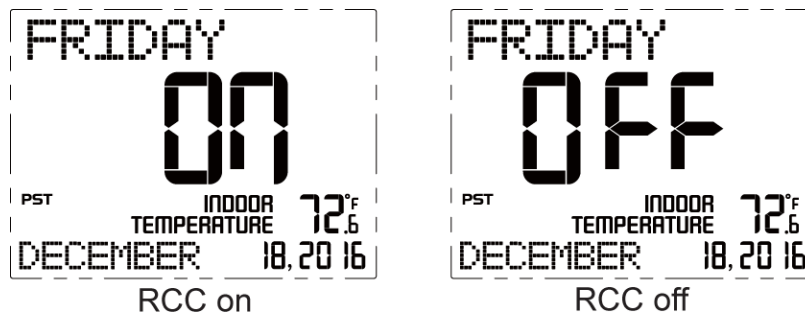Press and hold **RCC** button for 8 seconds to enable automatic RCC reception.

RCC on   RCC off
Figure 3

3.2 Time Settings

1. Slide the **SET** switch to the **TIME** position to enter the time set mode.
2. Adjust the time by pressing the **Adjust [+]** to increase or **[-]** to decrease. Press and hold to increase or decrease the time rapidly.
3. Press the **TIME ZONE / 12/24** button to select among the time zones in this sequence: PST (Pacific Standard Time) -> MST (Mountain Standard Time) -> CST (Central Standard Time) -> EST (Eastern Standard Time) ->AST (Atlantic Standard Time) -> NST (Newfoundland Standard Time)
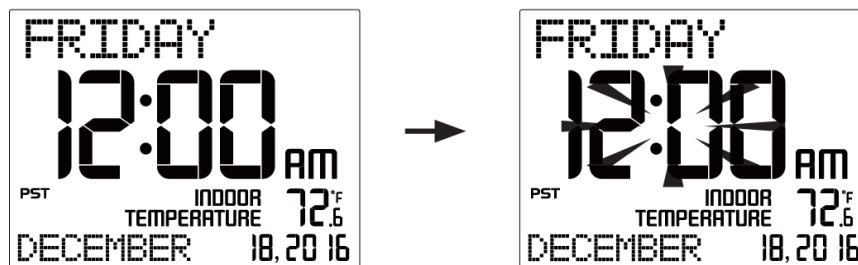4. To save and exit the time set mode, slide the **SET** switch to the **COMPLETE** position.

Figure 4

The clock has been programmed to automatically switch when daylight saving time is in effect.

Note: Arizona does not observe daylight savings time. If you live in Arizona and DST is in effect, you will need to change your time zone to **P** for Pacific.

3.3 Calendar Date Settings

1. Slide the **SET** switch to the **DATE** position to enter the date set mode.
2. Adjust the date by pressing the **Adjust [+]** to increase or **[-]** to decrease. Press and hold to increase or decrease the date rapidly.
3. To save and exit the date set mode, slide the **SET** switch to the **COMPLETE** position.
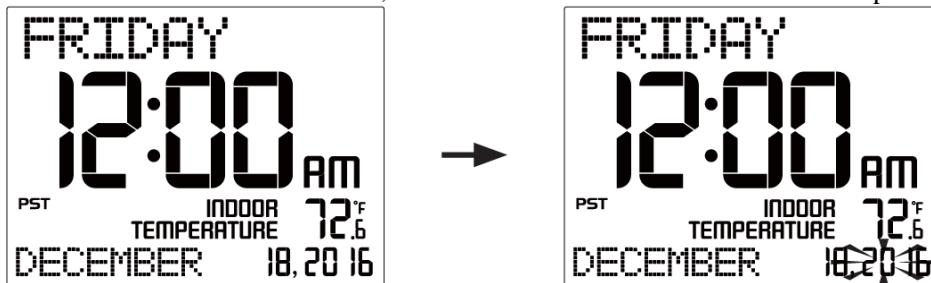

Figure 5

3.4 Alarm Settings

3.4.1 Setting the Alarm Time

1. Slide the **SET** switch to the **ALARM** position to enter the alarm time set mode.
2. Adjust the alarm time by pressing the **Adjust [+]** to increase or **[-]** to decrease. Press and hold to increase or decrease the alarm time rapidly.
3. To save and exit the alarm time set mode, slide the **SET** switch to the **COMPLETE** position.
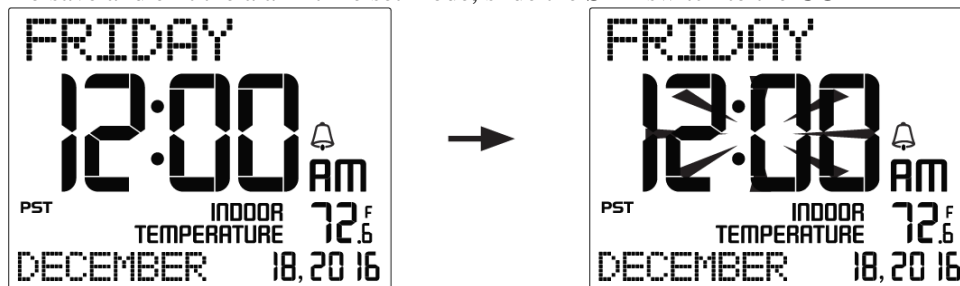

Figure 6

3.4.2 Turning On and Off the Alarm

1. Set the alarm time as described in Section 3.4.1.

2. Slide **ALARM ON / OFF** switch to turn on/off alarm function. The alarm icon 🔔 will be present when the alarm is turned on and the display is in Alarm Clock Mode (the alarm icon is not displayed in the Memory Clock Mode but is still functional).

3.4.3 Silencing the Alarm

If an alarm is sounding, to silence the alarm for 24 hours, press and hold the **ALARM / SNOOZE** button on the top of the clock for two seconds. If the alarm is not silenced, the crescendo alarm will continue to sound for two minutes.

3.4.4 Snooze Mode

If an alarm is sounding, to enter the snooze mode, press (do not hold) the **ALARM / SNOOZE** button on the top of the clock. The alarm icon 🔔 will flash. The alarm will sound again in 5 minutes. Press and hold the **ALARM / SNOOZE** button on the top of the clock for two seconds to silence the alarm for 24 hours.

4.   Alarm Clock vs. Memory Clock Mode

The clock has two display features:

The alarm clock mode (icons on) displays the alarm icon, indoor temperature, Radio Controlled Icon and Time Zone in addition to the features displayed in the memory clock mode.

The memory clock mode (icons off) simplifies the display, and only shows the day of week, time, and date. This makes the clock easy to read for the elderly and those suffering from memory loss. The alarm and Radio Controlled Clock features continue to work.

To switch between the alarm clock and memory clock modes, select the **Icons On/Off** Switch:
- Slide to the **ON** position to activate all icons and indoor temperature reading (alarm clock mode).
- Slide to the **OFF** position deactivate all icons and temperature reading (memory clock mode).
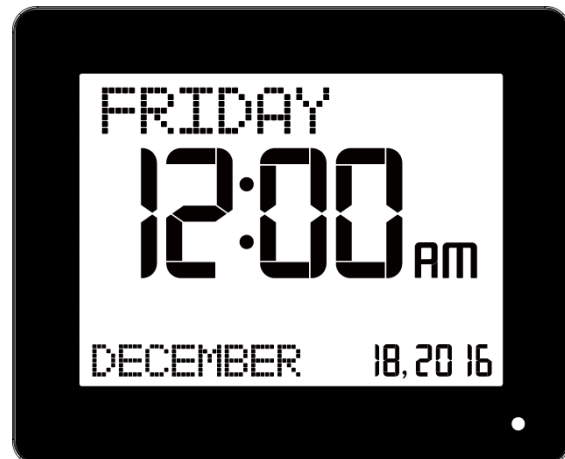
Alarm Clock Mode   Memory Clock Mode

5. Other Features

5.1   °F vs. °C

Press the **°C/°F** button to change the temperature units of measure.

5.2 Brightness Control

The brightness can be set to high, low, or auto (the backlight cannot be turned off).
Slide the **HI / LO / AUTO** switch to the **HI** position to set the backlight to high.
Slide the **HI / LO / AUTO** switch to the **LO** position to set the backlight to low.
Slide the **HI / LO / AUTO** switch **AUTO** position, and the backlight will automatically adjust based

on the ambient room lighting (dims in low light).

5.3 Language Settings

In normal mode, press the **[-]** button to change the language as follows:

EN (English), NL (Dutch), IT (Italian), ES (Spanish) , DE (German), and FR (French).

6. Specifications

2.1 Measurement Specifications

The following table provides specifications for the measured parameters.

Measurement	Range	Accuracy	Resolution
Temperature	-23 to 122 °F	23°F to 32°F: +/-4°F 33°F to86°F: +/-2°F 87°F to 122°F: +/-4°F -5°C to -0.1°C: +/-2°C 0°C to 40°C: +/-1°C 40.1°C to 50°C: +/-2°C	0.1 °F

2.2 Measurement Range

In the event the measurement ranges are exceeded, the temperature or humidity will read HI, Lo, or – (dashes) under the following conditions:

Measurement	Condition	Display
Temperature	Temperature < -23°F	Lo
	Temperature > 122°F	HI

5.3 Power Consumption

- AC Power (6V, 300 mA)
- 1 x CR2032 button battery for back up power.

7. Troubleshooting Guide

If your question is not answered here, you can contact us as follows:

1. Email Support: support@ambientweather.com
2. Technical Support: 480-346-3380 (M-F 8am to 3pm Arizona Time)

Problem	Solution
The Radio Controlled Time does not set.	• **Be patient. Wait at least one week before contacting Ambient Weather.** The RCC is a shortwave signal originating near Fort Collins, Colorado, and travels thousands of miles by bouncing off the ionosphere. The signal is better at night due to solar interference during the daytime. The farther you are from Colorado, the weaker the signal. Urban environments can also affect the signal strength.

Problem	Solution
	• **Locate the Clock at night near a window or outer wall, and away from other radiating sources, like wireless routers or TVs.** This will insure the best reception possible. • **Test and replace the batteries in the clock if required.** Low batteries are often the cause for weak reception. • **Check your Time Zone Setting.** Make sure your time zone is set properly in the clock settings. • Avoid placing the clock on a solid metal plate. • **Avoid closed in areas.** Closed in areas such as airports, basements, or industrial buildings are not recommended.
The clock does not respond to commands.	• Press the reset button on the back of the clock with an open ended paper clip or sharp tool.

8. Liability Disclaimer

Please help in the preservation of the environment and return used batteries to an authorized depot. The electrical and electronic wastes contain hazardous substances. Disposal of electronic waste in wild country and/or in unauthorized grounds strongly damages the environment.

Reading the "User manual" is highly recommended. The manufacturer and supplier cannot accept any responsibility for any incorrect readings and any consequences that occur should an inaccurate reading take place.

This product is designed for use in the home only as indication of weather conditions. This product is not to be used for medical purposes or for public information.

The specifications of this product may change without prior notice.

This product is not a toy. Keep out of the reach of children.

No part of this manual may be reproduced without written authorization of the manufacturer.

Ambient, LLC WILL NOT ASSUME LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR OTHER SIMILAR DAMAGES ASSOCIATED WITH THE OPERATION OR MALFUNCTION OF THIS PRODUCT.

9. FCC Statement

Statement according to FCC part 15.19:
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.
2. This device must accept any interference received, including interference that may cause undesired operation.

Statement according to FCC part 15.21:
Modifications not expressly approved by this company could void the user's authority to operate the equipment.
Statement according to FCC part 15.105:
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

10. Warranty Information

Ambient, LLC 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 only to the original purchaser of this product. To receive warranty service, the purchaser must contact Ambient, LLC for problem determination and service procedures.

Warranty service can only be performed by a Ambient, LLC. The original dated bill of sale must be presented upon request as proof of purchase to Ambient, LLC.

Your Ambient, LLC warranty covers all defects in material and workmanship with the following specified exceptions: (1) damage caused by accident, unreasonable use or neglect (lack of reasonable and necessary maintenance); (2) damage resulting from failure to follow instructions contained in your owner's manual; (3) damage resulting from the performance of repairs or alterations by someone other than an authorized Ambient, LLC authorized service center; (4) units used for other than home use (5) applications and uses that this product was not intended (6) the products inability to receive a signal due to any source of interference or metal obstructions and (7) extreme acts of nature, such as lightning strikes or floods.

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.