
Ambient Weather WR-111 ADVENTURER Emergency Solar Hand Crank Radio, Flashlight with AM/FM/NOAA Weather Band, Weather Alert and Cell Phone/mp3/mp4/USB Charger User Manual



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1. Introduction

Thank you for your purchase of the Ambient Weather WR-111 ADVENTURER Emergency Solar Hand Crank Radio, Flashlight with AM/FM/NOAA Weather Band, Weather Alert and Cell Phone/mp3/mp4/USB Charger. To download the latest full size manual (for easy viewing) and additional troubleshooting tips, please visit:

<http://ambientweather.wikispaces.com/wr111>



Figure 1



Figure 2



Cable	Description
A	Power output to cell phone/mp3/mp4/Ipod/Ipad/USB. Connects to tips D,E,F, and G
B	Audio input from mp3/mp4/Ipod/Ipad device.
C	USB power input from USB source (computer, AC or DC with optional converters)
D	Ipod/Ipad/Iphone tip
E	Micro cell phone tip
F	Mini cell phone tip
G	USB female tip (connects to USB conversion cables from your cell phone provider, not included)

Figure 3

2. Important Notes

Remove the plastic battery pull tab that was included during shipping to energize the rechargeable battery. Never hand crank the radio with this pull tab in place or when the battery compartment is empty. Failure to do so may damage the radio.

Before using this product, please read the following warning and cautions:

- This unit is water resistant, but is not water proof. Do not expose to rain or moisture. Do not submerge or expose for extended periods to water.
- Only operate within specified temperature range (32 °F to 131 °F).
- Unplug immediately if liquid has been spilled or any object has fallen into the unit.
- Clean only with a dry cloth. Do not use detergents or chemical solvents as this might damage the finish.
- Do not remove cover (or back). Only the rechargeable battery can be replaced or serviced.

- Do not place near a fire. The battery can explode.
- For long term storage, you may want to remove the fully charged battery or re-insert the plastic battery pull tab.

3. Features

The ADVENTURER includes the following features:

- Super bright 3 LED flashlight
- AM/FM with Weather Band Feature
- Weather Alert Feature
- Emergency cell phone/mp3/mp4/USB charger
- Backlight digital display
- Clock
- Audio input

4. Power Sources

The ADVENTURER can be powered from the following sources:

- DC power from a USB power source, such as a computer.
- AC power by adding a USB to AC adaptor (optional).
- DC car charger by adding a USB to DC car adaptor (optional).
- Solar power.
- Hand crank power.

4.1 DC and AC Power

Prior to using the ADVENTURER, we recommend you fully charge the rechargeable battery through the USB Power Input (Figure 2).

Lift the rubber tab on the back of the ADVENTURER to expose the connectors, as shown in Figure 2. Connect the DC power input cable (Figure 3, C) to the USB mini jack (C.2), and the other end to the USB power source (C.1). The red battery charge indicator light will illuminate when charging. Continue to charge the ADVENTURER for several hours or until the charging light turns from red to green. The ADVENTURER is now ready for use.

Important Note: Use 5.0V USB power source (from a computer or appropriate AC or DC adaptor). Over-voltage may result in damaging the ADVENTURER.

4.2 Solar Power

Place the ADVENTURER in direct (or indirect) sunlight with the solar panel facing upwards. The green battery charging light may illuminate when charging, as shown in Figure 1.

NOTE: There is not enough solar energy to turn on the red charging light. Thus, no light or a faint green light (which consumes less energy) may be present during solar charging.

NOTE: If the display heats up outside the operational range, the display will fade. For solar charging, partial sunlight or shade is sufficient.

4.3 Hand Crank Power

To operate the hand crank, perform the following:

1. Lift the hand crank from the cradle, as shown in Figure 2.
2. Turn the hand crank either clockwise or counterclockwise at about two cranks per second for 3-5 minutes to activate the internal battery for initial use, or when the unit has not been used for more than 60 days. The red battery charging light illuminates when charging, as shown in Figure 1.
3. For subsequent charges, turn the hand crank for one minute to produce 70 minutes of continuous light for the LED flashlight, or 16-20 minutes of continuous radio usage (subject to volume) or approximately 3-5 minutes of talk time on the cell phone (your results may vary due to phone variation).

5. Operation

5.1 Flashlight Operation

Turn the light on and off with the light switch on the top of the unit (Figure 1).

NOTE: The flashlight switch does not operate in Weather Alert Mode.

5.2 Radio Operation

The ADVENTURER includes a digital LCD display (Figure 4) with backlighting, with the following push button controls:

- **POWER.** Turns on and off the radio. Transitions from clock display to radio tuner display.
- **MODE.** Switches the radio band between AM, FM, weather band, and weather band alert mode.
- **TUN+:** Adjusts the radio frequency up
- **TUN-:** Adjusts the radio frequency down
- **VOL+:** Adjusts the radio volume up
- **VOL-:** Adjusts the radio volume down

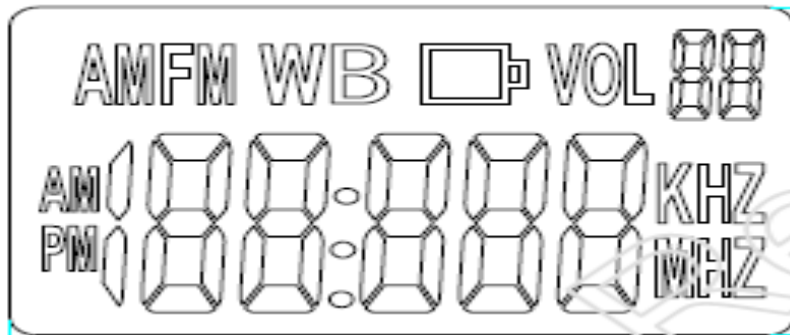


Figure 4

5.3 Time

When first powered up, the time will default to 12:00 AM.

1. **Set 12Hr/24Hr Mode.** Press and hold the **MODE** button for two seconds to enter the time setting mode. 12 Hr will begin flashing. Press the **TUN+** button to switch between 12 hour and 24 hour time mode. Press the **MODE** button to proceed to the next step.
2. **Set Hour.** Press the **TUN+** or **TUN-** to adjust the hour up or down. Hold the **TUN** button to change rapidly. Press the **MODE** button to proceed to the next step.
3. **Set Minute.** Press the **TUN+** or **TUN-** to adjust the minute up or down. Hold the **TUN** button to change rapidly. Press the **MODE** button to exit the time setting mode.

5.4 Radio Band Mode

NOTE: Radio reception is dramatically reduced when charging from USB. Disconnect USB power when listening to the radio.

Press the **POWER** button to turn the radio on and transition from the time mode.

The radio will default to **FM** band (or the last radio band since power up). Press the **MODE** button to change to the **AM** band. Press the **MODE** button to change to the Weather Band (**WB**). While displaying the Weather Band, press and hold the **MODE** button for two seconds to change to Weather Band Alert mode (the **WB** symbol will begin flashing).

Note: Radio interference will be present while charging the ADVENTURER.

5.4.1 AM/FM Radio Tuning

When the radio is turned on, press the **TUN+** button to increase the frequency and press the **TUN-** button to decrease the frequency.

To auto scan, press and hold the **TUN** (+ or -) key for at least one second and the radio will automatically tune to next radio station with sufficient reception.

5.4.2 Weather Band Tuning

There are seven distinct weather channels. The frequencies are 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz and 162.550 MHz.

For a complete list of weather radio broadcasting stations, please visit the National Weather Service website:

www.nws.noaa.gov/nwr/indexnw.htm

Our recommendation is to tune to the station with the best reception using the **TUN+** button. You will hear the “voice of the National Weather Service”, and automated voice that provides forecast information, weather statements, watches and warnings.

5.4.3 Weather Alert Mode

You can silence the radio and enter the alert mode. The radio will remain in standby mode until there is a weather statement, watch or warning. To activate the Weather Alert Mode, tune to your local station as defined in the previous section.

Press and hold the **MODE** button until the **WB** symbol begins flashing. The **WB** symbol will continue to flash until there is a weather statement, watch or warning. In the event of an alert, the alert light will flash and the radio will sound (with the voice of the National Weather Service). To disable the alert light, press any key. To disable the alert light but continue in alert mode, press and hold the **MODE** button to two seconds.

To verify you have reception in your area, the National Weather Service (NWS) normally run tests each Wednesday between 10 a.m. and noon local time. Tests may occur at other days and times when there is a threat of severe weather in the listening area or for other reasons.

5.5 Cell Phone and mp3/mp4 Operation

Because cell phone batteries vary in their current ratings, we cannot specify charging rates or usage time. 10 to 15 minutes of cranking may result in 1 or more minute of talk-time, but your results may vary.

Note: Charging a cell phone through the Phone Charger Jack is intended for emergency purpose only. It is not intended for recharging fully a discharged cell phone battery. Cell phone battery capacity significantly exceeds the battery capacity of the ADVENTURER. Therefore, a fully charged ADVENTURER will only partially charge a cell phone or mp3/mp4 device. After the battery stops charging the device, begin cranking if a DC power source is not available to continue recharging the cell phone.

To charge the cell phone or music player device:

1. Set **POWER** button to **OFF**.
2. Plug the cell phone charging cable (Figure 2, A.2) into the ADVENTURER charge output (Figure 2). Connect the appropriate cell phone tip (Figure 3, D.1, E.1, F.1) into the other end of the cell phone charging cable (Figure 3, A.1).
3. Plug other end of the cell phone tip (Figure 3, D.2, E.2, F.2) into the cell phone's charging connector.

In addition to the cell phone tips, a USB female connector (G) is available if your cell phone connector is not supported. If this is the case, contact your cell phone manufacturer for the appropriate USB to cell phone charger conversion cable. Connect the female USB tip (Figure 3, G.1) into the other end of the cell phone charging cable (Figure 3, A.1), and connect the female USB tip (Figure 3, G.2) into the cell phone's conversion cable.

4. If the phone does not begin charging, begin cranking. When charging a cell phone via the cell phone charger, it is important to turn the crank at least two revolutions per second, or until you see red charging LED turn on. This is an indication that the phone is receiving enough power from the radio. Continue to crank at this rate until you are satisfied that an appropriate level of charge has been received by your cell phone. If you decide to stop cranking for whatever reason, please wait at least 5 seconds before cranking the radio again.

Note: You may receive a charging compatibility error on your cell phone, but your device may still charge and it will not harm your device.

5.6 Low Battery Indication

When the battery voltage is less than 3.0V, the low battery indication will be displayed:



The radio will not operate in a low battery condition.

5.7 Audio Input

The ADVENTURER includes an audio input jack. This allows you to listen to your Ipad, Ipad or mp3 device through the ADVENTURER's speakers by connecting the audio cable (Figure 3, B).

6. Battery Maintenance

- Periodically charge the battery to extend battery life
- Switch off power after radio use to extend battery life
- Remove the battery or reinsert the plastic battery pull tab for extended storage

The battery is a rechargeable 3V / 800 mAh lithium ion battery. To replace the battery, open the battery compartment cover (Figure 2) by squeezing the tab.

Important Note: Only replace with rechargeable 3V lithium battery (CR123A). Replacing the battery

with a non-rechargeable battery may damage the unit. Rechargeable 3V lithium batteries are available from Ambient Weather.

7. Specifications

Battery Power:

3V / 800 mAh lithium ion rechargeable battery (replaceable)

Working voltage: 3-5V

Radio Bands:

AM: 525 KHz to 1710 KHz

FM: 88 MHz to 108 MHz

WeatherBand: 162.400 to 162.550 MHz

Flashlight:

3-LED Flashlight

Size and Dimensions:

Dimensions: 5.5" x 3.0" x 2.0"

Weight: less than 0.5 lbs.

Temperature Range:

Working temperature range: 32 to 131 °F (0 to 55 °C)

Storage temperature range: 14 to 140 °F (-10 to 60 °C)

8. Troubleshooting Guide

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


1. Email Support: support@ambientweather.com
2. Live Chat Support: www.ambientweather.com/chat.html (M-F 8am to 4pm Arizona Time)
3. Technical Support: 480-283-1644 (M-F 8am to 4pm Arizona Time)



Problem	Solution
Phone generates an error message when plugged into the ADVENTURER.	A lower voltage output may result in error messages on the phone but should still charge the phone.
My Ipod / iPhone does not display the charge signal.	The output voltage of the ADVENTURER is lower than the operating voltage of the IPod / iPhone, and will not charge these devices until the battery is fully discharged. The device is only intended for emergency charges and not for topping off already charged devices.
The ADVENTURER will no longer hold a charge.	Replace the 3V lithium ion rechargeable battery (CR123A). Typically, this battery will hold 2000 charge cycles. Important note: ALWAYS replace with rechargeable batteries, available from AmbientWeather.com.
The Weather Band reception is poor.	<ul style="list-style-type: none"> • Weather band reception can be poor inside a metal building, structure or where electronic noise is present. Try moving outside to improve reception • Check local reception by driving to a different location and testing the weather band reception. • Radio reception is dramatically reduced when charging from USB. Disconnect USB power when listening to the radio.
My cell phone connector is not supported.	Contact Ambient Weather with your cell phone model

Problem	Solution
Where can I purchase the proper tip for my cell phone?	and connector type. The connectors included cover about 95% of the cell phone market.
The ADVENTURER will not fully charge my cell phone.	Charging a cell phone through the Phone Charger Jack is intended for emergency purpose only. It is not intended for recharging fully a discharged battery. Cell phone battery capacity significantly exceeds the battery capacity of the ADVENTURER. Therefore, a fully charged ADVENTURER will only partially charge a cell phone or mp3/mp4 device. After the battery stops charging the device, disconnect the device and begin cranking if a DC power source is not available.
I never receive weather alerts.	Verify you receive the test alert from the National Weather Service on Wednesday as described in the weather alert section of this manual. Verify you have tuned the weather band to your local area and you have reception before activating the Weather Alert feature. Make sure you have good weather radio reception. If your radio reception is poor, you will not receive any alerts.
How can I receive warnings only and not watches or statements?	Selective filtering of statements, watches and warnings is not possible. You will always receive all three levels.
The ADVENTURER is locked up and will not respond to commands. How do I reset it?	Remove the battery. Press the reset button inside the battery compartment with a paperclip. Reinstall the battery.
The red charging light does not illuminate during solar charging.	There is not enough solar energy to drive the red charging light. For solar charging, you will see a faint green light. The brighter the sunlight, the brighter the green charging light.
The display fades when placed in direct sunlight.	If the display heats up outside the operational range, the display will fade. For solar charging, partial sunlight or shade is sufficient.

9. Accessories

The following software and hardware accessories are available for the ADVENTURER at www.AmbientWeather.com.

Accessory	Image	Description
Ambient Weather 90W1-29100 USB to AC Adaptor Converter		Converts USB cable to AC power.

Accessory	Image	Description
Ambient Weather 30W1-29100 USB to DC Car Charger Converter		Converts USB cable to DC car charger.
Ambient Weather 3V Lithium Ion Rechargeable battery		Replaces rechargeable battery after end of life (CR123A rechargeable).

10. 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 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.

11. 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 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) applications and uses that this product was not intended (5) the products inability to receive a radio signal due to any source of interference, metal obstructions or other reception issues.

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.

