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# Ambient Weather WR-77 Compact Emergency Radio with AM/FM/WeatherBand, Flashlight, Smart Phone Charger User Manual



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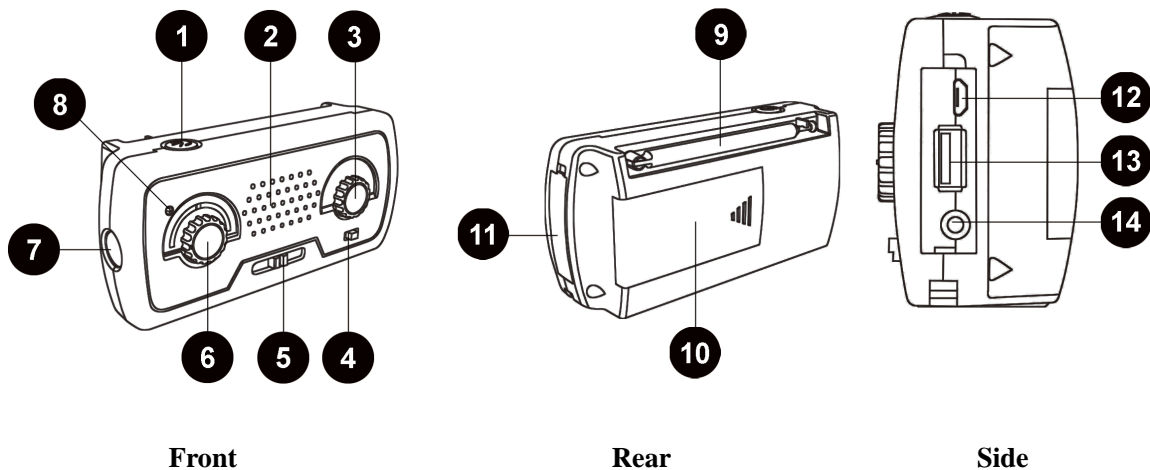
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## 1. Introduction

Thank you for your purchase of the Ambient Weather WR-77 Compact Emergency Radio with AM/FM/WeatherBand, Flashlight, Smart Phone Charger. To download the latest full size manual (for easy viewing) and additional troubleshooting tips, please visit:

<http://ambientweather.wikispaces.com/wr77>

## 2. Controls



No	Description	No	Description
1	Flashlight switch	8	Tuning LED
2	Speaker	9	Retractable Antenna (FM)
3	Volume Knob	10	Battery Compartment
4	RADIO/OFF/CHARGE switch	11	Connector Compartment
5	AM/FM/WeatherBand Switch	12	Power Input Port (to optional AC adaptor or DC converter)
6	Tuning Knob	13	USB Power Output Port (to smart phone or PDA)
7	Flashlight	14	Headphone Jack

**Figure 1**

## 3. Warnings

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

1. Read these instructions – All the safety and operating instructions should be read before the unit is operated.
2. Keep these instructions – The safety and operating instructions should be kept for future reference.
3. Heed all warnings – All warnings on the device and in the operating instructions should be adhered to.
4. Follow all instructions – All operation and use instructions should be followed
5. Do not use this item near water – The device should not be used near water; for example, near

- a bath tub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool. Unplug immediately if liquid has been spilled or any object has fallen into the unit.
6. Clean only with dry cloth – The device should be cleaned only as recommended by the manufacturer.
  7. Do not install near any heat sources such as radiators, heat registers, stoves, or other device (including amplifiers) that produce heat.
  8. Do not place near a fire. The batteries can explode.
  9. Only use attachments / accessories recommended by the manufacturer.
  10. Power Sources – The device should be connected to a power supply only of the type described in the operating instructions or as marked on the device. Do not overload wall outlet.
  11. Do not attempt to dismantle, open or repair this product yourself. If a fault occurs, seek advice from Ambient Weather support only.
  12. Only operate within specified temperature range (32 °F to 131 °F).
  13. Do not burn or bury batteries. Do not puncture or crush. Do not disassemble. Recycle batteries. Do not dispose of in the trash.
  14. If the electrolyte in the cells should get on your skin, thoroughly wash with soap and water. If in the eyes, rinse thoroughly with cool water. Immediately seek medical attention.

## 5. Features

The WR-77 includes the following features:

- AM/FM with Weather Band
- Emergency smart phone / PDA charger
- LED flashlight
- Audio output (headphones)
- AC or DC Power Input (optional)

## 6. Power Sources

The WR-77 can be powered from the following sources:

- 4 x AA batteries (not included)
- AC power by adding a USB to AC adaptor (optional)
- DC car charger by adding a USB to DC car adaptor (optional)

### 6.1 Inserting the Batteries

Insert four fresh batteries into the battery compartment on the back of the radio, as shown in Figure 2. Make note of the battery polarity before inserting.

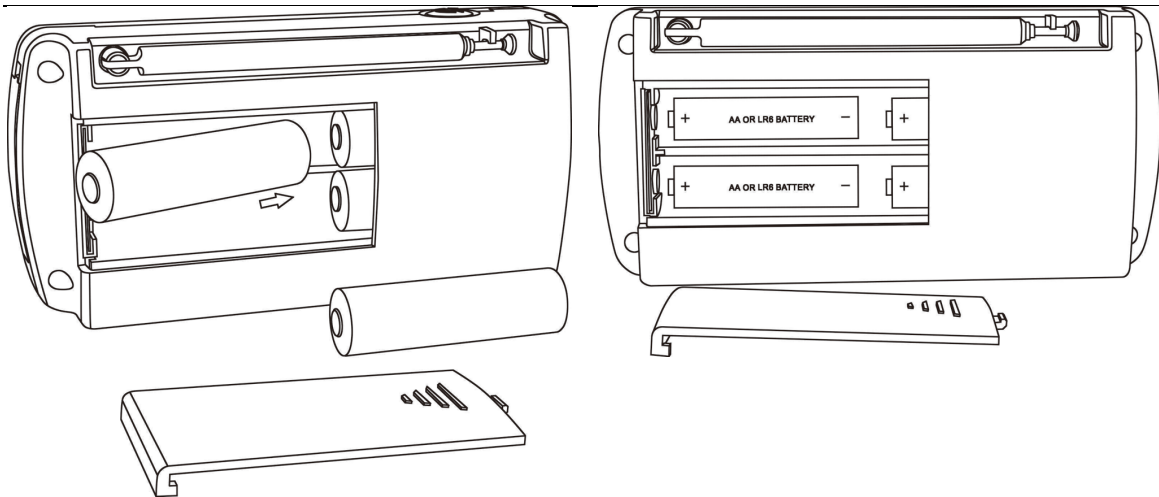


Figure 2

## 6.2 DC and AC Power

The WR-77 can be powered through the mini-USB power port (reference Figure 1, #12).

Lift the rubber tab on the back of the WR-77 to expose the connector compartment and power port.

Connect the DC power input cable (optional) to the USB mini jack, and the other end to the USB power source.

**NOTE:** Use 5.0V USB power source (from appropriate AC or DC adaptor). Over-voltage may result in damaging the WR-77.

## 7. Operation

### 7.1 Flashlight Operation

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

### 7.2 Radio Operation

To listen to AM/FM/WeatherBand radio, place the **RADIO/OFF/CHARGE** switch in the **RADIO** position (Figure 1, #5).

### 7.3 Radio Band Mode

**NOTE:** Radio interference will be present while connected to an AC or DC power source. For best FM reception, there is a telescoping antenna. Extend the antenna and change the position if the reception is weak.

#### 7.3.1 AM Radio Tuning

Place the AM/FM/WeatherBand switch in the AM position (Figure 1, #5). Adjust the TUNING knob to your favorite station (Figure 1, #6). Once a station is fully tuned, the tuning LED (Figure 1, #8) will turn on.

#### 7.3.2 FM Radio Tuning

Place the AM/FM/WeatherBand switch in the FM position (Figure 1, #5). Adjust the TUNING knob to

your favorite station (Figure 1, #6). Once a station is fully tuned, the tuning LED (Figure 1, #8) will turn on. For better FM reception, extend the telescoping FM antenna.

### 7.3.3 Weather Band Tuning

Place the AM/FM/WeatherBand switch in the 1 thru 7 position (Figure 1, #5).

There are seven distinct weather channels. The frequencies are 1) 162.400 MHz, 2) 162.425 MHz, 3) 162.450 MHz, 4) 162.475 MHz, 5) 162.500 MHz, 6) 162.525 MHz and 7) 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](http://www.nws.noaa.gov/nwr/indexnw.htm)

Our recommendation is to tune to the station with the best reception using the AM/FM/WeatherBand switch. You will hear the “voice of the National Weather Service”, and automated voice that provides forecast information, weather statements, watches and warnings.

## 7.4 Smart phone and PDA Operation

Because smart phone batteries vary in their current ratings, we cannot specify charging rates or usage time. With fresh, high quality batteries, you will be able to charge a typical smart phone or tablet multiple times.

To charge the smart phone or tablet:

1. Place the **RADIO/OFF/CHARGE** switch in the **CHARGE** position (Figure 1, #5).
2. Lift the rubber tab on the back of the WR-77 to expose the connectors, as shown in Figure 1, #11.
3. Plug your smart phone USB charging cable that came with your device into the WR-77 power output port (Figure 1, #13).

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

## 7.5 Audio Output / Head Phones

The WR-77 includes an audio output jack (Figure 1, #14). This allows you to listen with headphones or connect to an auxiliary input source, such as an amplifier.

**CAUTION:** Guard your ears against hearing damage. When listening with headphones, start at the lowest volume and gradually increase until you can hear it comfortably and clearly.

### Read this Important Information before Using Your Earbuds:

- Avoid extended play at very high volume as it may impair your hearing.
- If you experience ringing in your ears, reduce the volume or shut off the unit.
- Keep the volume at a reasonable level even if your headset is an open-air type designed to allow you to hear outside sounds. Please note that
- Excessively high volume may still block outside sounds.

## 8. Specifications

Dimensions: 5.5 x 2.75 x 1.5"

Weight: 0.25 lbs (4 oz)

Power Consumption (max):

Radio Frequency Range: 520-1710 KHz AM; 87-108 MHz FM

WB (MHz): 1)162.400 2)162.425 3)162.450 4)162.475 5)162.500 6)162.525 7)162.550

Batteries: 4 x AA (not included)

## 9. Troubleshooting Guide



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



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

Problem	Solution
The unit will not power up.	Change the batteries
Phone generates an error message when plugged into the WR-77.	A lower voltage output may result in error messages on the phone but should still charge the phone.
The Weather Band reception is poor.	<ul style="list-style-type: none"> <li>• Weather band reception can be poor inside a metal building, structure or where electronic noise is present. Try moving outside to improve reception</li> <li>• Check local reception by driving to a different location and testing the weather band reception.</li> <li>• Radio reception is dramatically reduced when connected to AC or DC power.</li> </ul>
My smart phone connector is not supported. Where can I purchase the proper connector for my smart phone?	Most smart phones come with USB cables to connect to a computer. If your smart phone did not come with a cable, purchase the 10-in-1 charging cables (Section 10).
The WR-77 will not fully charge my smart phone.	Replace the batteries.

## 10. Accessories

The following software and hardware accessories are available for the WR-77 at [www.AmbientWeather.com](http://www.AmbientWeather.com).

Accessory	Image	Description
Ambient Weather WR-AC1 UL Rated USB to AC Adaptor for Small Electronics Devices		AC adaptor connects to USB Power Port
Ambient Weather WR-DC1 USB to DC Converter for Small Electronic Devices		DC converter connects to USB Power Port

Accessory	Image	Description
Ambient Weather WR-005 10 in 1 Phone USB Charger		Connectors for: Nokia 3.5mm Samsung PSP, PSP 2000, PSP 3000 Nokia 2mm Motorola LG Motorola Samsung Sony Ericsson Apple
Ambient Weather 10UM-02103BK Type A Male / Mini B Male Cable, 2.0, Black		Converts back and forth between USB Male Plug and USB Mini B Male Plug.

## 11. 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.

## 12. 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.

### 13. FCC Statement

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.

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



### 14. Battery Recycle Statement

#### Recycle Batteries



Recycle your old batteries at one of the many collection sites in the U.S. and Canada. To find the site nearest you, visit [www.call2recycle.org](http://www.call2recycle.org) or call toll-free 1-877-2-RECYCLE.