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# Ambient Weather WR-335 ADVENTURER2 User Manual



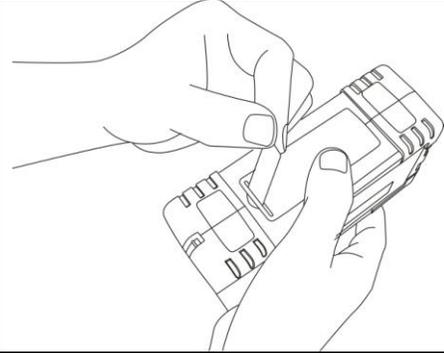
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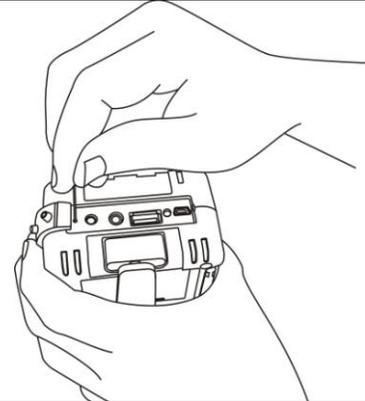
## 1. Quick Start Guide

Pull the battery tab before operation.  
It is recommended to fully charge the ADVENTURER2 before first use.

Fully charge the ADVENTURER2 before first use.

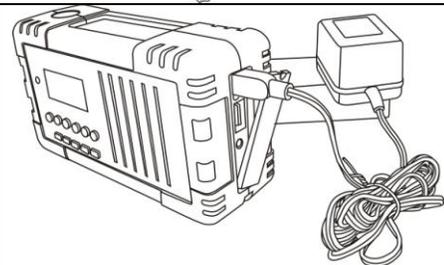
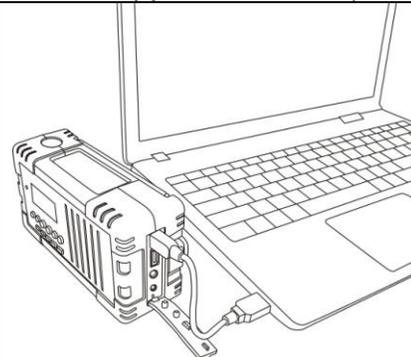


**If the ADVENTURER2 does not operate after pulling the battery tab or anytime during normal operation, fully charge and reset the ADVENTURER2 by inserting an open ended paper clip into the reset hole.**



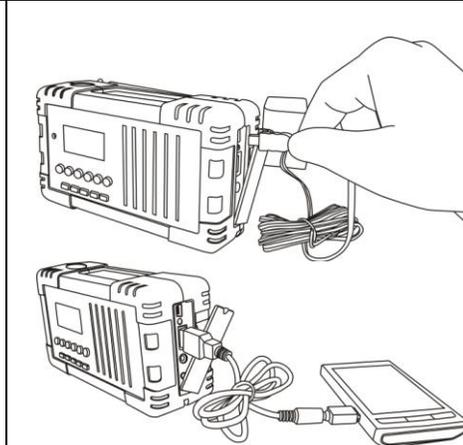
### Maintenance:

1. Plug the **ADVENTURER2** into a power source (computer USB or AC) until fully charged. Disconnect after fully charged to extend the battery life. **Do not leave plugged into the charger indefinitely.**
2. **Periodically charge the ADVENTURER2 every few weeks.** This will extend the battery life and provide a fully charged radio when an emergency occurs. The solar collector will not fully charge the battery.
3. **Remove, inspect and clean the radio battery contacts every few months with a cloth.** Inspect the battery for corrosion or leakage.
4. If the battery light rapidly flashes red and green, it is time to replace the battery.



**Charging Smart Phone or PDA:****To charge a smart phone or PDA:**

1. Disconnect from AC or USB power.
2. Press and hold the Power button  for 3 seconds until the **PHONE** charging icon is displayed on the screen.
3. Plug in your Smart Phone or PDA.

**Problems?**

Call support 480-346-3380 (M-F 8am to 4pm Arizona Time)

Email: [support@ambientweather.com](mailto:support@ambientweather.com)

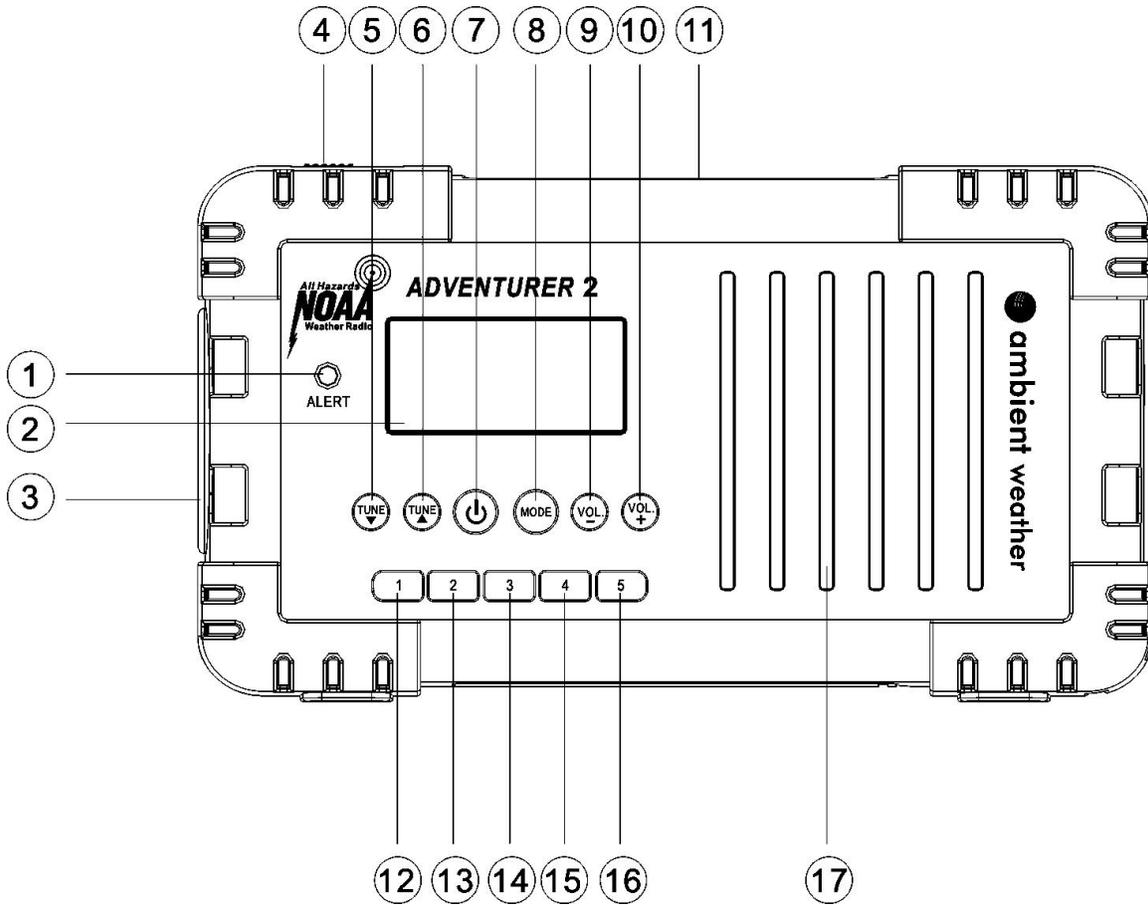
Chat: [www.AmbientWeather.com/chat.html](http://www.AmbientWeather.com/chat.html)

**2. Introduction**

Thank you for your purchase of the Ambient Weather WR-335 Emergency Solar Hand Crank Radio, Flashlight with AM/FM/NOAA Weather Band, Certified Weather Alert and Smart Phone / Portable Device Charger. To download the latest full size manual (for easy viewing) and additional troubleshooting tips, please visit:

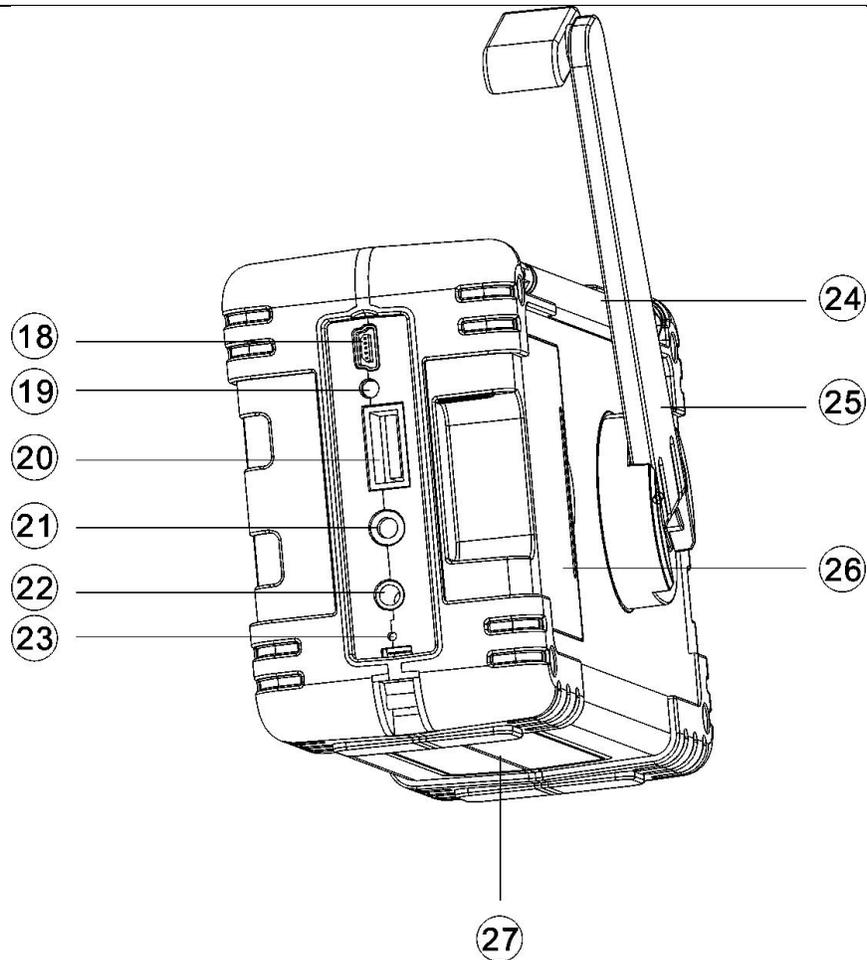
<http://ambientweather.wikispaces.com/wr335>

### 3. Controls



No	Description	No	Description
1	Weather Alert Indicator	8	Radio Mode Select and Clock Set button
2	LCD Display	9	Volume Down (-) button
3	Flashlight	10	Volume Up (+) button
4	Flashlight ON/OFF button Emergency Siren / Flasher Light button	11	Solar Panel
5	Clock/Radio Tune Down (▼) button	12-16	Station Preset buttons 1-5
6	Clock/Radio Tune Up (▲) button	17	Speaker
7	Power On/Standby (⏻) button Smart Phone / Portable Device On		

Figure 1



No	Description	No	Description
18	Mini USB DC Input Port (under the Rubber Dust Cover)	23	Reset button (under the Rubber Dust Cover)
19	Charging Indicator (under the Rubber Dust Cover)	24	Telescopic Antenna
20	USB Charging Port (under the Rubber Dust Cover)	25	Crank Handle
21	Headphone Jack (under the Rubber Dust Cover)	26	AAA battery compartment
22	Audio Input	27	Rechargeable battery compartment

**Figure 2**

## 4. Cables and Converters

There are two cables included:

1. Power Input (from USB, AC or DC converter) to charge the ADVENTURER2
2. Power Output (10-in-1 smart phone connector) to charge smart phone and PDA devices.



**Figure 3**

Cable	Description
1	Mini USB to USB power input cable
2	10 in 1 power output smart phone cables for: A. Apple iPhone/Ipod/Ipad® B. Motorola V3 C. Motorola V8 D. Nokia 8250 E. Nokia N90 F. Sony Ericsson K750 G. Samsung 1900 H. Samsung D800 I. LG KK90 J. PSP

® Registered trademarks of Apple Inc.

**NOTE:** The tip for the iPhone5 is not included, but you can connect the iPhone5 USB cable that came with your iPhone5 directly into the WR-335 USB power output port.

If your smart phone included a USB cable, you can substitute this cable for the conversion cables in Figure 3, and plug directly into the WR-335 USB power output port.

## 5. Warnings

When used in the directed manner, this unit has been designed and manufactured to ensure your personal safety. However, improper use can result in potential electrical shock or fire hazards. Please read all safety and operating instructions carefully before use, and keep these instructions handy for future reference. Take special note of all warnings listed in these instructions.

**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. The battery can fail.
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. The battery can explode.
8. Do not place near a fire. The battery can explode.
9. Only use attachments / accessories recommended by the manufacturer. Always use an AC adapter rated at 5V / 500 mA. Failure to do so can damage the battery.
10. Refer all servicing to qualified service personnel. Servicing is required when the device has been damaged in any way, such as liquid has been spilled or the device has been exposed to rain or moisture, does not operate normally, or has been dropped.
11. This device shall not be exposed to dripping or splashing water and that no object filled with liquids such as vases shall be placed on the device.
12. Unplug immediately from AC power if liquid has been spilled or any object has fallen into the unit and disconnect the battery.
13. 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.
14. Danger of explosion if battery is incorrectly replaced. Replace only with the same battery type.
15. Do not attempt to dismantle, open or repair this product yourself. If a fault occurs, seek advice from Ambient Weather support only. Only the rechargeable battery can be replaced or serviced.
16. Only operate within specified temperature range (32 °F to 131 °F).
17. Do not store the AAA batteries for extend periods of time. They may leak or rupture and damage the ADVENTURER2.



### **Lithium Battery Safety Instructions**

- Do not burn or bury batteries. Do not puncture or crush. Do not disassemble. Recycle Lithium batteries. Do not dispose of in the trash.
- If the electrolyte in the smarts should get on your skin, thoroughly wash with soap and water. If in the eyes, rinse thoroughly with cool water. Immediately seek medical attention.
- Charge batteries on a fireproof surface away from flammable items or liquids.



### **Hand Crank Warning**

To prevent overheating of the dynamo hand crank and permanent damage, do not crank faster than approximately two revolutions per second. Do not crank continuously for more than two minutes. After two minutes, allow one minute of rest before cranking again.

## **6. Features**

The WR-335 includes the following features:

- Super bright 35 lumens LED flashlight
- Emergency Siren
- Light flasher in the event of a power outage
- AM/FM/Shortwave with Weather Band Feature
- Weather Alert Feature (public alert certified)

- Emergency smart phone/PDA/USB charger
- Backlight digital display
- Clock
- Audio output (headphones)
- Audio input (for use with digital audio player)

## 7. Power Sources

The WR-335 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 (included)
- DC car charger by adding a USB to DC car adaptor (optional)
- Solar power
- Hand crank power
- Three AAA batteries (optional)

**NOTE:** There is a charging LED on the back of the ADVENTURER2 (Figure 2, reference 19). The red LED light flashes during charging. When fully charged, the LED turns solid RED.

### 7.1 Best Practices for Charging

We recommend periodically charging the ADVENTURER2 completely through the WR-335 mini USB power input port (from your computer, AC adaptor or optional DC converter) every few weeks.

Disconnect after fully charged to extend the battery life. Do not leave plugged into the charger indefinitely.

The solar collector will not completely charge your unit and is intended to extend the existing battery charge.

### 7.2 DC and AC Power

Prior to using the WR-335, we recommend you fully charge the rechargeable battery through the USB Power Input (Figure 2). This may take up to four hours.

Connect the power input cable (Figure 3) to the USB mini jack, and the other end to the USB or AC power source. The red battery charge indicator light will flash when charging (Figure 2, reference 19). Continue to charge the WR-335 for several hours or until the charging light turns solid red. The WR-335 is now ready for use.

**NOTE:** Use 5.0V USB power source (from a computer or appropriate AC or DC adaptor). Over-voltage may result in damaging the WR-335.

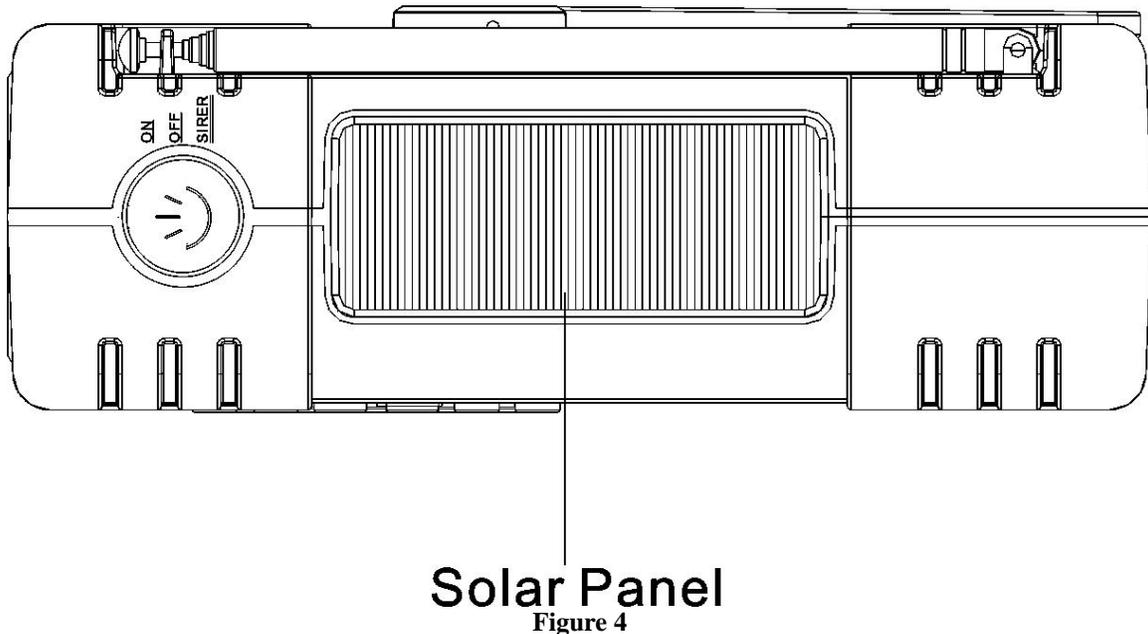
### 7.3 Solar Power

Place the WR-335 in direct (or indirect) sunlight with the solar panel facing upwards. The red battery charging will flash when charging, as shown in Figure 1.

**NOTE:** If the display heats up outside the operational range, the display will fade, but it will not damage the display.

**NOTE:** The solar collector will not completely charge your unit and is intended to extend the existing battery charge. The solar collector efficiency is significantly impacted by direct vs. indirect sunlight,

angle of the solar collector, angle of the sun and weather conditions, including your latitude, time of year (winter vs. summer), time of day, and cloud cover.



**Solar Panel**  
Figure 4

## 7.4 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 at about two cranks per second for two minutes. The red battery charging light flashes when charging, as shown in Figure 1. After two minutes, rest for two minutes to extend the life of the hand crank and repeat.
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 smart phone (your results may vary due to phone variation).

## 7.5 Dry Smart Battery AAA Battery Power

The WR-335 also includes the option to power from 3 x AAA power as a back up to the rechargeable battery source. This is convenient if you have drained the rechargeable battery source and you wish to avoid hand cranking the ADVENTURER2.

Note that the AAA batteries will not provide enough current to charge some smart phones and PDAs and is intended for the flashlight and radio only.

1. Open the Battery Door on the back of the ADVENTURER2.
2. Insert 3 x AAA (UM-4) batteries (not included) and close the battery door.  
**NOTE:** For optimum performance, alkaline-type batteries are recommended.
3. Following the polarity diagrams shown in the battery compartment,

**NOTE:** Make certain the batteries are installed correctly. The wrong polarity may damage the ADVENTURER2.

**WARNING:**

- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries.
- Only batteries of the same or equivalent type as recommend are to be used.
- If the ADVENTURER2 is not to be used for an extended period of time, remove the batteries. Old or leaking batteries can cause damage to the ADVENTURER2 and may void the warranty.
- Do not dispose of batteries in fire, batteries may explode or leak.

## 7.6 Power Consumption

The WR-335 includes a 3.7V rechargeable Lithium Ion large battery capacity (2200 mAh) as the primary energy storage, but different operational modes result in significantly varying power consumption requirements. Here is a general guide on power consumption, typical user operation and recommend power sources.

Mode	Typical User Operation	Power Consumption	Recommend Power Source
Flashlight	Emergency or remote use	Low	Solar, Hand Crank, AAA Batteries
AM/FM/Weather Band Radio	Emergency or remote use	Low	Solar, Hand Crank, AAA Batteries
Weather Alert	Continuous monitoring (1)	High	AC, USB (from computer)
Smart phone charging	Short term emergency use (2)	High	AC, USB (from computer), Hand Crank

- (1) The weather alert mode consumes a significant amount of power because it is constantly scanning for the emergency 1050 Hz tone from the National Weather Service. We recommend fully charging the battery before using this feature.
- (2) The AAA batteries may not provide enough current to charge a smart phone.

## 8. Operation

### 8.1 Flashlight Operation

Turn the light on and off with the light switch on the top of the ADVENTURER2 (Figure 1).

### 8.2 Emergency Siren with Light Flasher

To sound the emergency siren with light flasher, press and hold the flashlight switch for 3 seconds. To disable, press the flashlight switch again.

### 8.3 Power Outage Light Flasher

In the event of a power outage, the flashlight will flash, providing a location beacon. To disable, press the flashlight switch.

### 8.4 Radio Operation

The WR-335 includes a digital LCD display (Figure 5) 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
  - **Preset 1,2,3,4,5**: Switch to programmed preset channels.
- NOTE:** The backlight will automatically turn off if no buttons are pressed for 20 seconds.

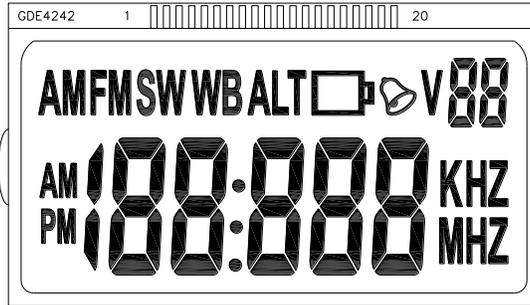


Figure 5

## 8.5 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.

## 8.6 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 **AM** band (or the last radio band since power up). Press the **MODE** button to change to the **FM** band. Press the **MODE** button to change to the **SW** band. Press the **MODE** button to change to the Weather Band (**WB**). While displaying the Weather Band, press the **MODE** button again to change to Weather Band Alert mode (**ALT**).

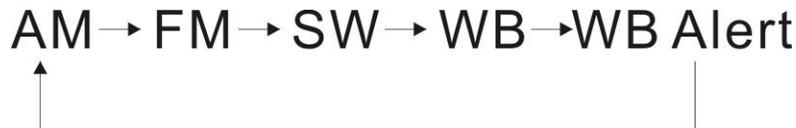


Figure 6

**NOTE:** Radio interference will be present while charging the WR-335. For best reception, there is a telescoping antenna. Extend the antenna and change the position if the reception is weak.

### 8.6.1 AM/FM/SW 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 tune quickly, press and hold the **TUN (▲ or ▼)** key for at least one second. When you let go, the radio will automatically tune to next radio station with sufficient reception.

### 8.6.2 Preset Channels

There are five preset channels. To set the preset channels, tune to the favorite AM/FM/SW/WB channel(s) and press and hold the preset button (1-5) until the ADVENTURER2 beeps.

### 8.6.3 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](http://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.

### 8.6.4 Shortwave Radio

#### 8.6.4.1 Shortwave Introduction

The shortwave radio receives frequencies between 2.300 and 23.000 MHz. The primary advantage of shortwave is their ability to propagate for long distances by bouncing off of the ionosphere, making it possible to listen to communications worldwide.

Additionally, shortwave is used for two-way international communication by amateur radio enthusiasts for hobby, educational and emergency purposes.

#### 8.6.4.2 Shortwave Radio Reception

Shortwave reception is significantly impacted by solar interference. Thus, most English speaking stations broadcast around sunset (eastern time) and throughout the night.

#### 8.6.4.3 Shortwave Radio Station List

The following list contains some of the more popular shortwave stations. All stations broadcast in English unless otherwise specified. You can hear these stations throughout North America. However, reception varies bases on the season, time of day, and a number of other environmental conditions.

MHz	Station	Location
3.265	Radio Mozambique	Maputo, Mozambique
3.300	Radio Cultural	Guatemala City, Guatemala

<b>MHz</b>	<b>Station</b>	<b>Location</b>
3.380	Radio Iris	Esmeraldas, Ecuador
3.285	FR3	Cayenne, French Guiana
4.750	Radio Bertoua	Bertoua, Cameroon
4.755	Imo Regional Radio	Imo, Nigeria
4.890	National Broadcasting Commission	Papua, New Guinea
4.915	Voice Kenya	Nairobi, Kenya
4.920	Australian Broadcasting Commission	Brisbane, Australia
5.020	Solomon Islands Broadcasting Service	Honiara, Solomon Islands
5.950	Guyana Broadcasting Service	Georgetown, Guyana
5.960	Radio Canada International	Montreal, Canada
5.980	Radio RSA	Johannesburg, South Africa
6.005	CFCX	Montreal, Canada
6.045	Radio Australia	Lyndhurst, Australia
6.090	Radio Luxembourg	Ville Louvigny, Luxembourg
6.095	Polskie Radio	Warsaw, Poland
6.105	Radio New Zealand	Wellington, New Zealand
7.140	Trans World Radio	Monte Carlo, Monaco
7.300	Radio Noumea	Tirana, Albania
9.475	Radio Cairo	Cairo, Egypt
9.515	Voice of Greece	Athens, Greece
9.525	Radio Korea	Seoul, South Korea
9.530	Spanish Foreign Radio	Madrid, Spain
9.535	Swiss Radio International	Berne, Switzerland
9.540	Radio Prague	Prague, Czech Republic
9.570	Radio Bucharest	Bucharest, Romania
9.575	Italian Radio and Television Service	Rome, Italy
9.620	Radio Berlin International	Berlin, Germany
9.645	Radio Norway	Oslo, Norway

<b>MHz</b>	<b>Station</b>	<b>Location</b>
9.745	HCJB	Quita, Ecuador
9.770	Austrian Radio	Vienna, Austria
9.800	Radio Kiev	Kiev, Ukraine
9.835	Radio Budapest	Budapest, Hungary
10.040	Voice of Vietnam	Hanoi, Vietnam
11.655	Israel Radio	Jerusalem, Israel
11.690	Radio Kuwait	Kuwait City, Kuwait
11.705	Radio Sweden	Stockholm, Sweden
11.720	Radio Moscow	Moscow, Russia
11.725	Radio Sofia	Sofia, Bulgaria
11.745	Voice of Free China	Taipei, Taiwan
11.815	Radio Japan	Tokyo, Japan
11.835	4VEH	Cap Haitien, Haiti
11.845	Radio Canada	Montreal, Canada
11.850	Deutsche Welle	Cologne, Germany
11.890	Voice of Chile	Santiago, Chile
11.900	Radio RSA	Johannesburg, South Africa
11.910	BBC	London, England
11.930	Radio Havana Cuba	Havana, Cuba
11.935	Radio Portugal	Lisbon, Portugal
11.945	Radio Beijing	Beijing, China
11.955	Voice of Turkey	Ankara, Turkey
11.980	Radio Moscow	Moscow, Russia
15.135	Radio Moscow	Moscow, Russia
15.165	HCJB	Quito, Ecuador
15.190	ORU	Brussels, Belgium
15.205	All India Radio	New Delhi, India
15.260	BBC	London, England

MHz	Station	Location
15.265	Finnish Radio	Helsinki, Finland
15.275	Radio Sweden	Stockholm, Sweden
15.305	Swiss Radio International	Berne, Switzerland
15.310	Radio Japan	Tokyo, Japan
15.320	Radio Australia	Melbourne, Australia
14.400	BBC	London, England
17.720	Radio France International	Paris, France
17.825	Vatican Radio	Vatican City
17.860	Austrian Radio	Vienna, Austria
21.495	Israel Radio	Jerusalem, Israel
21.525	Radio Australia	Melbourne, Australia
21.625	Israel Radio	Jerusalem, Israel
21.645	Radio France International	Paris, France
25.790	Radio RSA	Johannesburg, South Africa

### 8.6.5 Weather Alert Mode

You can silence the radio and enter the weather 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 the **MODE** button until the **ALT** symbol will be displayed. The **ALT** symbol will continue to be displayed 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.

When a weather alert occurs, the radio will sound and the weather alert light will flash on the front of the ADVENTURER2. Press the power button  to disable the weather alert.

We recommend fully charging the battery before using this feature.

**NOTE:** If battery power is low, the ADVENTURER2 will exit the weather alert mode and enter the time display mode.

---

## 8.7 Smart Phone and PDA Operation

Because smart 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.

To charge the smart phone or music player device:

1. Disconnect the unit from AC or USB power (if it is connected).
2. Press and hold the Power button  for 3 seconds until the **PHONE** charging icon is displayed on the screen. This feature will turn off all radio modes to conserve power.
3. Lift the rubber tab on the back of the WR-335 to expose the connectors, as shown in Figure 2.
4. Plug the smart phone charging cable (your own that came with your phone or PDA, or the 10-in-1 cable included) into the WR-335 charge USB output (Figure 2 reference 20). Plug your smart phone or PDA cable into the USB power output port.
5. If the phone does not begin charging, disconnect the phone and begin cranking. When charging a smart phone via the smart phone charger, it is important to turn the crank at least two revolutions per second. After two minutes of cranking at two revolutions per minute, wait two minutes to begin cranking again. This will extend the crank life.

**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.

## 8.8 Low Battery Indication

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



The ADVENTURER2 will not operate in a low battery condition. If the battery drains quickly, or the charging LED flashes rapidly from red to green, it is time to replace your battery (typically 1-3 years of operation).

## 8.9 Audio Output / Head Phones

The WR-335 includes an audio output jack. 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 ADVENTURER2.
- 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.

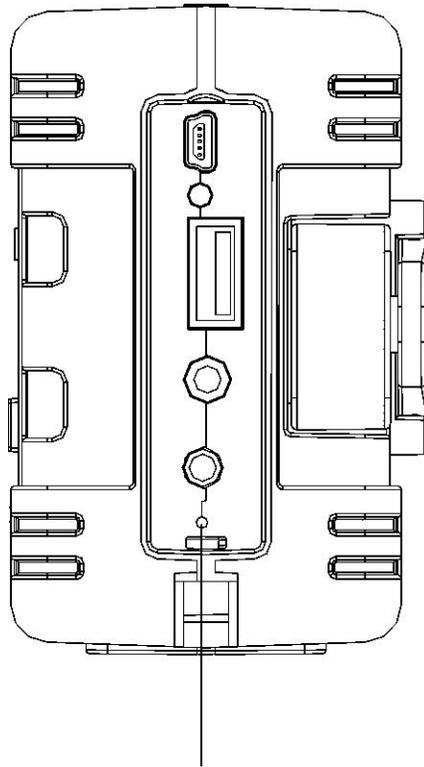
## 8.10 Audio Input

You can connect and play music from external PDAs and smart phones, including iPods and iPhones. Connect the external device using a 3.5mm audio cable.

## 8.11 Resetting the ADVENTURER2

If the ADVENTURER2 experiences a power surge or electric shock, it is possible that the internal micro-controller may lock up and the ADVENTURER2 will not respond to any commands from the panel controls. In this event, use a straightened paper clip, toothpick or similar objects to press the RESET button located on the back of the ADVENTURER2 (see the below figure). The reset operation clears the system memory to factory default, and all of your previous settings will be erased.

**CAUTION:** Do not use a sharp or pointed object to press the reset button. It may damage the reset switch inside the ADVENTURER2.



### RESET BUTTON

Figure 7

## 9. Care and Maintenance

### 9.1 Battery Maintenance

To maintain the battery:

- Periodically charge the battery to extend battery life
- Do not leave the radio plugged into the charger indefinitely
- Switch off power after radio use to extend battery life
- Remove the battery or reinsert the plastic battery pull tab for extended storage
- Remove the AAA batteries for extended storage to prevent battery leakage
- Remove, inspect and clean the radio battery contacts every few months with a cloth. Inspect the battery for corrosion or leakage.

The battery is a rechargeable 3.7V / 2200 mAh lithium ion battery. To replace the battery, open the battery compartment cover (Figure 2) by squeezing the tab.

**NOTE:** Only replace with rechargeable 3.7V lithium ion battery (LR18650). Replacing the battery with a non-rechargeable battery may cause the battery to explode. Rechargeable 3.7V lithium batteries are available from Ambient Weather.

## 9.2 General Care and Maintenance

- Do not tamper the internal components of the ADVENTURER2.
- Clean your unit with a damp (never wet) cloth. Solvent or detergent should never be used.
- Avoid leaving your unit in direct sunlight or in hot, humid or dusty places.
- Keep your unit away from heating appliances and sources of electrical noise such as fluorescent lamps or motors

## 10. Specifications

### Battery Power:

3.7V / 2200 mAh lithium ion rechargeable battery (replaceable) or  
3 x AAA (UM-4) batteries

### Radio Bands:

AM: 525 KHz to 1710 KHz

FM: 88 MHz to 108 MHz

WeatherBand: 162.400 to 162.550 MHz

Shortwave: 2.300 to 23.000 MHz

### Flashlight:

35 lumens Flashlight

### Siren:

125 db

### Size and Dimensions:

Dimensions: 6.0" x 3.5" x 2.0"

Weight: appx one lb.

### Temperature Range:

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

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

## 11. 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. Live Chat Support: [www.ambientweather.com/chat.html](http://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
The ADVENTURER2 will not power up.	<ul style="list-style-type: none"> <li>• Make sure the battery is inserted and completely charged.</li> <li>• Remove, inspect and clean the radio battery contacts every few months with a cloth. Inspect the battery for corrosion or leakage.</li> <li>• Press the reset button with a paperclip.</li> <li>• Replace the rechargeable battery.</li> </ul>

<b>Problem</b>	<b>Solution</b>
Phone generates an error message when plugged into the WR-335.	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.	<p>The output voltage of the WR-335 is lower than the operating voltage of the IPod / iPhone, and will not charge these devices until the battery is fully discharged.</p> <p>The device is only intended for emergency charges and not for topping off already charged devices.</p>
The WR-335 will no longer hold a charge.	<p>Replace the 3.7V lithium ion rechargeable battery (LR18650). Typically, this battery will hold 2000 charge cycles.</p> <p>Important note: ALWAYS replace with rechargeable batteries, available from AmbientWeather.com.</p>
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 charging from USB. Disconnect USB power when listening to the radio.</li> </ul>
My smart phone connector is not supported. Where can I purchase the proper tip for my smart phone?	Contact Ambient Weather with your smart phone model and connector type. The connectors included cover about 95% of the smart phone market. You can also use the female USB cable to connect to the USB cable included with most smart phones.
The WR-335 will not fully charge my smart phone.	<p>Charging a smart phone through the Phone Charger Jack is intended for emergency purpose only. It is not intended for recharging fully a discharged battery. Smart phone battery capacity significantly exceeds the battery capacity of the WR-335.</p> <p>Therefore, a fully charged WR-335 will only partially charge a smart phone or PDA device. After the battery stops charging the device, disconnect the device and begin cranking if a DC power source is not available.</p>
I never receive weather alerts.	<p>Verify you receive the test alert from the National Weather Service on Wednesday as described in the weather alert section of this manual.</p> <p>Verify you have tuned the weather band to your local area and you have reception before activating the Weather Alert feature.</p> <p>Make sure you have good weather radio reception. If your radio reception is poor, you will not receive any alerts.</p>
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 WR-335 is locked up and will not respond to commands. How do I reset it?	Press the reset button with a paperclip.
The display fades when placed in direct	If the display heats up outside the operational range, the

<b>Problem</b>	<b>Solution</b>
sunlight.	display will fade. For solar charging, partial sunlight or shade is sufficient.
The WR-335 exits the alert mode and displays time.	The weather alert mode consumes a significant amount of power because it is constantly scanning for the emergency 1050 Hz tone from the National Weather Service. We recommend connecting power input to a USB computer port or the USB to AC converter for continuous alert operation (reference Section 12). Otherwise, you must rely on hand crank power in this mode.
The ADVENTURER2 does not fully charge with the solar collector.	The solar collector will not completely charge the ADVENTURER and is intended to extend the existing battery charge. The solar collector efficiency is significantly impacted by direct vs. indirect sunlight, angle of the solar collector, angle of the sun and weather conditions, including your latitude, time of year (winter vs. summer), time of day, and cloud cover.

## 12. Accessories

The following software and hardware accessories are available for the WR-335 at [www.AmbientWeather.com](http://www.AmbientWeather.com).

<b>Accessory</b>	<b>Image</b>	<b>Description</b>
Ambient Weather WR-355-BATT 3.7V / 2200 mAh Rechargeable Battery for Weather Alert Radios		Replaces rechargeable battery after end of life (LR18650 rechargeable).

## 13. 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.

## 14. 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.

## 15. 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



## 16. Battery Recycle Statement



### Recycle Rechargeable Batteries

Recycle your old rechargeable 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.