



NOAA Emergency

# Weather Radio

Instruction Manual

# TF-82W NOAA RADIO INSTRUCTION MANUAL

Thank you for purchasing this NOAA radio. Please read this manual carefully to become familiarized with the product's many features and to ensure years of reliable operation.

**We assume no responsibility for any damage or loss resulting from the use of this product. We assume no responsibility, directly or indirectly, for financial losses or claims from third persons resulting from the use of this product and all of its functions.**

**This radio was not designed to survive extreme pressure or temperatures. Do not leave or store the radio in environments where temperature ranges can be extreme. Do not apply harsh chemicals or water to the display. Changes or modifications to this radio will void the unit's warranty and can cause a safety hazard.**

**To prevent fire or shock hazards, do not expose this radio to rain or moisture. Do not place the radio on top of any soft, porous, or sensitive surfaces to avoid damaging the surface. Use a protective barrier between the radio and surface to protect the surface.**

## **FEDERAL COMMUNICATIONS COMMISSION (FCC) RADIO FREQUENCY INTERFERENCE STATEMENT INFORMATION TO THE USER:**

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.

**Warning:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**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.

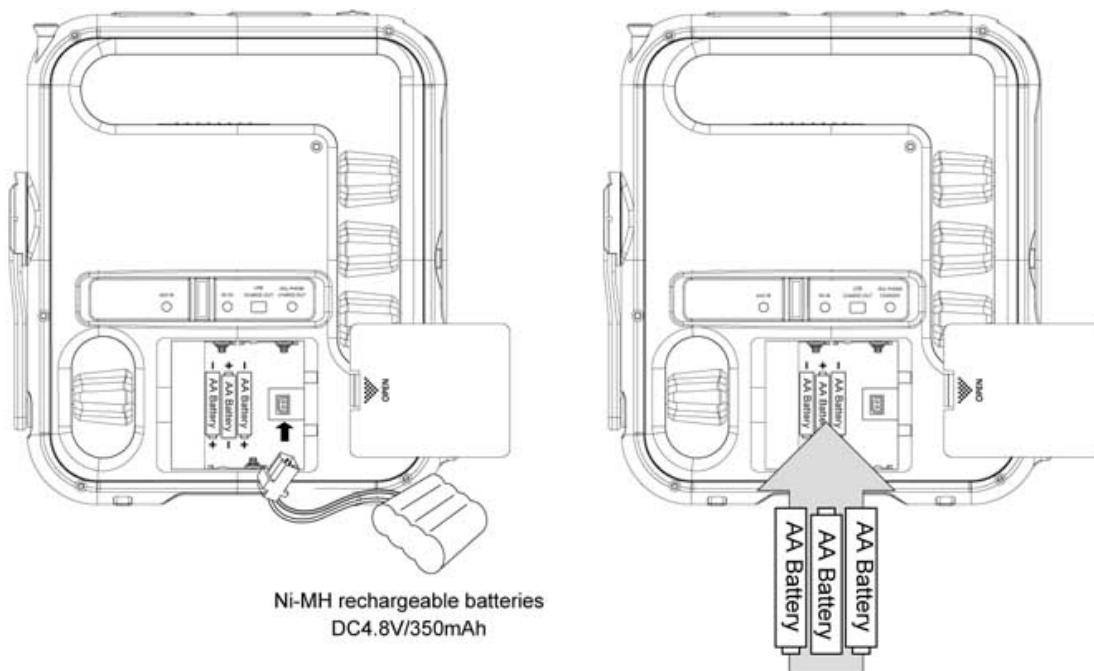
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one 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 needed.
- Consult the dealer or an experienced radio/TV technician for help.

**Notes:** Shielded cables must be used with this unit to ensure compliance with the Class B FCC limits.

## INSTALLING THE BATTERIES

Before using your radio for the first time, you will need to install the batteries. Remove the battery door on the back of the radio.



When you remove this door, you will see a wired connector for the radio's built-in rechargeable batteries. With this plugged in, you can use the hand crank to charge and power your radio for emergency use. You can also charge these batteries with an AC adapter, available for purchase from Royal by calling 1-800 222-2310.

Once the wired connector is plugged in, insert 3 X AA batteries into the radio, being careful not to damage the wires from the connector plug. Those wires should be tucked into the space provided in the battery area.

Please note: Do not use rechargeable batteries. Your radio will only recharge the radio's built-in rechargeable battery. Replace batteries in sets. Never mix old batteries with new batteries. Never mix battery types as well.

## SETTING THE CLOCK

- Step 1: Rotate the POWER switch to OFF position.
- Step 2: Press and hold the TIME SET button.
- Step 3: While holding the TIME SET button, Press the HOUR and MINUTE button to adjust the hour and minute on the clock
- Step 4: Release the TIME SET button to set the adjusted time.

## SETTING THE ALARM

- Step 1: Rotate the POWER switch to OFF position.
- Step 2: Press and hold the ALARM SET button.
- Step 3: While holding the ALARM SET button, press the HOUR and MINUTE button to adjust the hour and minute on the alarm time.
- Step 4: Release the ALARM SET button to set the adjusted alarm time.
- Step 5: Rotate the BAND switch (WB,FM,AM) to the desired mode for the alarm sound. Turn the Volume Dial all the way towards "ALARM" to set the alarm sound by using the buzzer.
- Step 6: Press the ALARM Button to activate or deactivate the set alarm.

## LISTENING TO THE AM/FM RADIO

- Step 1: Adjust the BAND switch (WB, FM, AM) to AM or FM position.
- Step 2: Adjust the POWER switch to the ON position.
- Step 3: Turn the TUNING knob to adjust the AM or FM radio station.

## LISTENING TO THE WEATHERBAND RADIO

- Step 1: Adjust the BAND switch (WB, FM, AM) to the WB position.
- Step 2: Adjust the POWER switch to the ON position.
- Step 3: Adjust the WEATHER CHANNELS switch to the channel received in your current area.

There are 7 NOAA dedicated frequencies for NOAA broadcasts which are used in the United States. You will only be able to receive NOAA broadcast on the 1 frequency that is transmitting in your area. Find the channel by moving the WEATHER CHANNELS through the 7 pre-set stops until you hear the broadcast. NOAA Weather Alerts are available in most areas of the United States however they may not be available in remote areas.

For a list of areas which receive Weatherband frequency,  
Visit : <http://www.weather.gov/nwt/nwtbro.htm> on the internet

## SET THE WEATHER ALERTS

Adjust the WEATHER CHANNEL switch to the channel received your area as described above and turn the POWER switch to the WB ALERT setting. You will see a red LED directly above the display to indicate you are in the weather alert mode.

An alarm will sound when a weather alert for your area is broadcast. Turn your radio on to hear the alert.

## CONNECTING A CELL PHONE TO THE RADIO

- Step 1: Any Cell Phone or Cell Phone with Mini-USB port can be connected to the unit for charging.
- Step 2: Find the Suitable Cell Phone Adaptor that first to be connected, and plug it into the phone and the Cell Phone Charger, located on the back of the radio connection.
- Step 3: The connected phone can now be charged by the Dynamo hand crank.  
Cell Phone connection cable with suitable Cell Phone Adaptor not included.

**Warning: Don't unplug the built-in Ni-MH rechargeable batteries when you are using Dynamo hand crank, that may damage cell phone charging system.**

## CONNECTING AN ELECTRONIC DEVICE TO THE RADIO

- Step 1: Any Electronics Device with USB or Mini-USB port can be connected to the radio for charging.
- Step 2: Plug the correct USB cable into the USB-powered device and the USB charge-out located on the back of the radio connection.
- Step 3: The connected device can now be charge by the radio's Dynamo Hand Crank.

**Warning: Don't unplug the built-in Ni-MH rechargeable batteries when you are using Dynamo hand crank, that may damage outside electronic device charging system.**

## BAND COVERAGE

AM : 530 ~1710 kHz  
FM : 88 ~108 MHz  
Weather Channel: 162.40 ~ 162.55 MHz (CH1 - CH7)

## FEATURES

- AM / FM / Weather Radio
- AM / FM Frequency LCD Digital Display
- 7- Channel Weather Band Preset
- Weather Alert Function
- Digital Clock with Alarm
- Amber LCD Display
- 3 – LEDs Flashlight
- 5 – LEDs Reading Lamp
- Blinking Function
- Emergency Siren
- Built-In Speaker
- Aux-In Jack for other Audio Players
- DC Output Jack and USB to Charge Cell Phones & Audio Devices
- DC Input Jack for AC Adaptor Charge
- 3 - Way Power Can Charge:
  - Hand-Crank the Dynamo Motor for Power generation
  - AC/DC Adaptor , not included
  - Installed Rechargeable Nickel Metal – hydride Batteries (included)
- LED charging indicator
- DC : Uses 3 x “AA” Batteries ( not included)

## FUNCTIONS DEFINITIONS

1. **Tuning Dial**  
Turn the Tuning Dial to adjust the frequency of the AM or FM radio.
2. **Band Switch (WB,FM,AM)**  
Adjust the Band Switch to switch between WB, FM and AM modes. Under the Weather Alert mode this Band Switch must be set to WB mode.
3. **Volume Dial**  
Turn the Volume Dial to adjust the volume of audio output from unit.  
Turn the Volume Dial to “Alarm” to set the alarm source to Buzzer Mode.
4. **Light Switch (Flashlight –On/Siren/Off)**  
Use the Light Switch (Flashlight-On/Siren /Off) to controlled by the torch light and siren sound with torch light blinking on/off.
5. **Alarm Button**  
Press the Alarm button to activate the alarm setting.
6. **Back-Light Button**  
Press the Back-Light Button to turn on the amber light for the LCD display.
7. **Power Indicator**  
Power LED light on to indicate the radio function is active now
8. **WB-Alert Indicator**  
WB-Alert LED light on to indicate the radio is set to weather alert function.
9. **Weather band channel Switch**  
Switch the Weather band Channel to adjust the weather band broadcast channel 1~7.
10. **Recharge /Battery Low**  
This LED light on is indicated the rechargeable battery is charging by AC adaptor or hand cranking dynamo. When the LED light is weak, which indicate the battery power is low.
11. **Alarm Set Button**  
Press and hold the Alarm Set Button to set the alarm.
12. **Time Set Button**  
Press and hold the Time Set Button to set the clock.
13. **Radio/Clock Button**  
Press and hold Radio/Clock Button to view the time when in AM or FM mode.
14. **Hour Button**  
Press the Hour Button to adjust the hour when setting the clock or alarm.
15. **Minute Button**  
Press the Minute Button to adjust the minute when setting the clock or alarm.
16. **LCD Display**  
To show the clock and the radio of AM/FM and Band frequency.

## 17. Power Switch

Adjust the Power Switch to the ON position to power the unit using the AC/DC adaptor (sold separately) or internal rechargeable battery.

Adjust the Power Switch to WB-ALERT position to activate the weather alert mode.

Adjust the Power Switch to the BATT position to power the unit using AA batteries (not included).

Adjust the Power Switch to the OFF position to power off the unit and charge it when connected to an AC power source.

## 18. Speaker

Output radio sound.

## 19. Dynamo Hand Cranking

Use the Dynamo Hand Crank to generate power for the unit when there are no other power sources available, and to charge the internal rechargeable battery.

## 20. Telescopic Antenna

Extend the Telescopic Antenna and adjust angle for better FM or Weather band reception.

## 21. Auxiliary Input

Use the Auxiliary input to connect an MP3 player or other audio source to the unit.

## 22. DC Power Input

Use the DC power Input to connect the unit to a DC or AC power source.

**Warning:** Don't unplug the built-in Ni-MH rechargeable batteries when you are using an AC adaptor to recharge the radio, that may damage the radio.

**Caution:** Use only Royal authorized AC adapters with this product. Use of an unauthorized AC adapter voids the warranty, may damage electronic devices and could cause a fire hazard or injury. Royal assumes no responsibility for damages caused by using unauthorized AC adapters.

## 23. USB Power Output

Use the USB Power to connect a cell phone or audio devices to the USB unit to be charged by dynamo hand cranking with built-in rechargeable battery.

## 24. Cell Phone Charger Connection

Use the Cell Phone Charger to connect a cell phone to the unit, then to charge by dynamo hand cranking.

## 25. Reading Lamp

Left up the Reading Lamp arm for reading

## 26. Ultra Bright LED Flashlight

For illumination when blackout or for indoor and outdoor use.

## 27. Battery Compartment

Contains the internal Ni-MH battery.

Takes 3 AA batteries, not included.

