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> Radio Parts AR1771 4-in-1 Dynamo Radio, Torch, Charger, and Siren User Manual

## Radio Parts AR1771

# Radio Parts AR1771 4-in-1 Dynamo Radio, Torch, Charger, and Siren User Manual

Model: AR1771 | Brand: Radio Parts

## INTRODUCTION

This manual provides essential instructions for the safe and effective operation of your Radio Parts AR1771 4-in-1 Dynamo device. This compact, multi-functional unit integrates an AM/FM radio, a dual-function LED torch, an emergency siren, and a USB charging output for mobile devices. It is powered by an internal rechargeable Lithium Polymer (LiPo) battery, which can be charged via USB or the integrated hand-crank dynamo.

## SAFETY INFORMATION

- Do not expose the device to extreme temperatures, direct sunlight, or high humidity.
- Avoid dropping the device or subjecting it to strong impacts.
- Keep the device away from water and other liquids to prevent electric shock or damage.
- Do not attempt to disassemble or modify the device. This will void the warranty and may cause harm.
- Ensure proper ventilation when charging.
- The siren is very loud; avoid prolonged exposure to prevent hearing damage.

## PRODUCT FEATURES

- **4-in-1 Functionality:** AM/FM Radio, Dual-Function LED Torch, Emergency Siren, USB Charger.
- **Power Source:** Internal 3.7V 480mAh Lithium Polymer (LiPo) Battery.
- **Recharging Options:** USB input or integrated Dynamo Hand Crank.
- **Torch Modes:** Single 0.5W LED for bright illumination and Dual High Brightness LEDs for broader light.
- **Emergency Siren:** High-output siren ( $\geq 120\text{dB}$ ) for attracting attention.
- **USB Charging Output:** Provides emergency power to compatible mobile devices (5VDC @ 0.4A Max).

## SETUP AND INITIAL CHARGING

### Charging the Internal Battery

The AR1771 device features an internal rechargeable Lithium Polymer battery. Before first use, it is recommended to fully charge the device.

#### 1. USB Charging

Connect the device to a standard USB power source (e.g., computer USB port, USB wall adapter) using a compatible USB cable. The charging indicator light will illuminate. A full charge typically takes approximately 2 hours.



**Image:** Side view of the AR1771 device, highlighting the USB charging port and the ON/OFF switch. The port is covered by a rubber flap for protection.

#### 2. Dynamo Hand Crank Charging

Extend the hand crank located on the side of the device. Rotate the crank clockwise or counter-clockwise at a steady pace. Continuous cranking will generate power to charge the internal battery. For emergency situations, 1 minute of cranking can provide approximately 10 minutes of radio or torch use, or 2 minutes of siren operation.



**Image:** The AR1771 device shown with its hand crank extended, ready for manual power generation. The crank folds flush with the device when not in use.

# OPERATING INSTRUCTIONS

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## 1. Torch Operation

The device features a dual-function torch. Locate the torch activation button, typically on the side or front of the unit.

- **First Press:** Activates the single 0.5W LED for a focused, bright beam (Light Output:  $\geq 30$  lumens).
- **Second Press:** Activates the dual high brightness LEDs for a broader, softer light (Light Output:  $\geq 6$  lumens).
- **Third Press:** Turns the torch off.

## 2. Radio Operation (AM/FM)

To use the radio function:

1. Locate the radio ON/OFF switch and turn it on.
2. Extend the telescopic antenna for better reception.
3. Use the tuning dial to select your desired AM (522 - 1620kHz) or FM (88 - 108MHz) station.
4. Adjust the volume using the dedicated volume control.

## 3. Emergency Siren

The AR1771 includes a powerful emergency siren ( $\geq 120$ dB). To activate the siren, locate the dedicated siren button or switch. Pressing or activating this control will emit a loud alert sound. To deactivate, press the button again or switch it off.

**Warning: The siren is extremely loud. Avoid direct exposure to ears. Use only in emergency situations.**

## 4. USB Charging Output for External Devices

The device can provide emergency power to compatible mobile phones or other small USB-powered devices.

1. Ensure the AR1771's internal battery has sufficient charge.
2. Connect your mobile device to the AR1771's USB output port using your device's charging cable.
3. The AR1771 will begin charging your external device (Output: 5VDC @ 0.4A Max). Note that this is an emergency charging feature and may not fully charge larger devices quickly.

# MAINTENANCE

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- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, ensure the battery is partially charged (around 50%) and recharge it every 3-6 months to maintain battery health.
- **Battery Care:** Avoid fully discharging the battery frequently to prolong its lifespan.

# TROUBLESHOOTING

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Problem	Possible Cause	Solution
Device does not turn on.	Battery is fully discharged.	Charge the device via USB or by using the hand crank dynamo.

Problem	Possible Cause	Solution
Torch is dim or not working.	Low battery charge.	Recharge the device.
Poor radio reception.	Antenna not extended; weak signal.	Fully extend the telescopic antenna. Try repositioning the device for better signal.
External device not charging.	AR1771 battery low; incorrect cable; external device incompatible.	Ensure AR1771 is charged. Use a known good USB cable. Verify external device compatibility with 5VDC @ 0.4A output.
Dynamo crank is stiff.	Dust or debris.	Gently clean around the crank mechanism. Do not force.

## SPECIFICATIONS

<b>Model</b>	AR1771
<b>Brand</b>	Radio Parts
<b>Battery Type</b>	3.7V 480mAh Lithium Polymer (LiPo)
<b>Charge Time</b>	Approx. 2 hours (via USB)
<b>Working Time (0.5W LED)</b>	≥4 hours
<b>Working Time (Dual LED)</b>	≥10 hours
<b>Working Time (Radio)</b>	≥5 hours
<b>Working Time (Siren)</b>	≥70 minutes
<b>Light Output (0.5W LED)</b>	≥30 lumens
<b>Light Output (Dual High Brightness LED)</b>	≥6 lumens
<b>Emergency Siren Output</b>	≥120dB
<b>FM Frequency Range</b>	88-108MHz
<b>AM Frequency Range</b>	522 - 1620kHz
<b>USB Charging Current Output</b>	5VDC @ 0.4A Max
<b>Weight</b>	171g (device only), 200g (parcel)
<b>Dimensions (L x W x D)</b>	158 x 50 x 33 mm
<b>Material</b>	Aluminum

## WARRANTY AND SUPPORT

Radio Parts products are manufactured to high-quality standards. For warranty information and technical support, please

refer to the documentation provided with your purchase or visit the official Radio Parts website. Keep your proof of purchase for warranty claims.

For further assistance, please contact Radio Parts customer service.