

Pomya Pomya0f5iwxt4

ATS 20+ Radio Receiver Instruction Manual

Model: Pomya0f5iwxt4 | Brand: Pomya

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1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your Pomya ATS 20+ Radio Receiver. This high-sensitivity portable world band digital radio is designed for global FM broadcast reception, making it suitable for various environments, including outdoor camping and home use. Please read this manual thoroughly before operating the device.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Global Broadcasting:** Supports FM stereo, AM, LW, and SW world bands for comprehensive reception.
- **High Sensitivity:** Utilizes multiple conversion and DSP digital demodulation technology for enhanced signal reception.
- **Portable Design:** Lightweight and sturdy aluminum alloy construction ensures maximum portability.
- **User-Friendly Controls:** Features large tuning and volume knobs for easy operation.
- **Durable Construction:** Made from robust aluminum alloy for long-lasting performance.
- **Customizable:** PCB retains the SI4735 package, allowing users to replace the chip and ensuring software compatibility.

2.2 Product Components



Figure 2.2.1: Front view of the ATS 20+ Radio Receiver with its telescopic antenna extended. The compact black unit features a display screen and control knobs on the front panel.



Figure 2.2.2: A close-up view of the radio's display and controls, highlighting its high sensitivity and wide receiving range across FM, AM, MW, SW, SSB, LSB, and USB bands.



Figure 2.2.3: The radio shown with its antenna extended, illustrating its lightweight and sturdy design optimized for portability. It features sound bandwidth filters and DSP digital demodulation.



Figure 2.2.4: Rear view of the radio, showcasing its aluminum alloy construction for ruggedness and durability. The image also displays the antenna connection point and various ports.



Figure 2.2.5: The complete package contents, including the ATS 20+ radio unit, its telescopic antenna, a USB Type-C charging cable, and adhesive feet for stable placement.



Figure 2.2.6: A detailed view of the radio's front panel, showing the display screen, the main tuning knob, and various control buttons for band selection, volume, and mode.



Figure 2.2.7: A close-up of the radio's rear panel, illustrating the antenna input, headphone jack, USB download port, and Type-C charging port, along with the power switch.

3. SETUP

3.1 Initial Charging

1. Locate the Type-C charging port on the side/rear of the radio.
2. Connect the provided USB Type-C cable to the radio and the other end to a compatible USB power adapter (not included) or a computer USB port.
3. The power charge LED indicator will illuminate during charging. Ensure the device is fully charged before first use for optimal battery life.

3.2 Antenna Connection

1. The radio comes with a telescopic antenna. Gently extend the antenna to its full length for best reception.
2. For enhanced reception, especially on shortwave bands, you may connect an external antenna to the dedicated antenna input (ANT) if desired.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

- Locate the power switch (OFF/ON) on the side/rear of the radio.
- Slide the switch to the 'ON' position to power on the device.
- Slide the switch to the 'OFF' position to power off the device.

4.2 Band Selection

- Press the 'BAND+' or 'BAND-' buttons to cycle through available frequency bands (FM, AM, LW, SW).
- For SSB (Single Sideband) reception, use the 'MODE' button to select LSB (Lower Sideband) or USB (Upper Sideband).

4.3 Tuning and Frequency Adjustment

- Use the large 'TUNE/BFO/ATS' knob to fine-tune the frequency within the selected band.
- The 'STEP' button can be used to adjust the tuning step size for quicker or more precise frequency changes.
- For SSB reception, the 'TUNE/BFO/ATS' knob also functions as the BFO (Beat Frequency Oscillator) control for clear voice reception.

4.4 Volume Control

- Adjust the audio output level using the 'VOL+' and 'VOL-' buttons.

4.5 Headphone Use

- Connect standard 3.5mm headphones to the 'head phone' jack for private listening. The internal speaker will be muted automatically.

5. MAINTENANCE

5.1 Cleaning

- Wipe the exterior of the radio with a soft, dry cloth.
- Do not use liquid cleaners, aerosols, or harsh chemicals, as they may damage the finish or internal components.

5.2 Storage

- When not in use for extended periods, store the radio in a cool, dry place away from direct sunlight and extreme temperatures.
- Ensure the antenna is fully retracted before storage to prevent damage.

5.3 Battery Care

- Recharge the built-in lithium-ion battery regularly, even if the radio is not frequently used, to maintain battery health.
- Avoid fully discharging the battery frequently.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Battery is discharged.	Connect the radio to a power source using the Type-C cable and charge the battery.
Poor reception / Static	Antenna not extended or poor signal area.	Fully extend the telescopic antenna. Try repositioning the radio or moving to an open area. For shortwave, consider an external antenna.
Cannot tune to desired station	Incorrect band selected or tuning step too large.	Ensure the correct frequency band (FM, AM, LW, SW) is selected. Adjust the tuning step using the 'STEP' button for finer control.

Problem	Possible Cause	Solution
Distorted SSB audio	BFO not properly adjusted.	Fine-tune the 'TUNE/BFO/ATS' knob while in SSB mode to clarify the audio.

7. SPECIFICATIONS

Feature	Detail
Model	ATS 20+
Screen	0.96 inch
Charging Interface	Type C
Speaker	8ohm 1.5W
Battery Type	800mAh Lithium Ion Battery (Built-In)
Supported Frequency Bands	FM, AM (MW and SW), SSB (LSB and USB)
FM Band	84.00 - 108.00 MHz
LW Band	0.10 - 0.51 MHz
MW Band	0.52 - 1.72 MHz
SW Bands (Examples)	1.72 - 30.00 MHz (various sub-bands including 160m, 80m, 40m, 30m, 20m, 17m, 15m, 12m, CB Band)
Material	Metal, PCB
Package Dimensions	6.3 x 3.94 x 2.76 inches
Item Weight	11.6 ounces
Connectivity Technology	USB
Controller Type	Touch (referring to buttons)
Audio Output Mode	Stereo (via headphones)
Color	Black
Output Power	1.5 Watts

8. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or service for your Pomya ATS 20+ Radio Receiver, please refer to the official Pomya website or contact their customer service directly. Details regarding optional protection plans may also be available from your retailer.

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