

## Tihebeyan CS-106

# Tihebeyan CS-106 Full Frequency Portable Receiver Radio User Manual

Model: CS-106

## INTRODUCTION

Thank you for choosing the Tihebeyan CS-106 Full Frequency Portable Receiver Radio. This manual provides essential information for the proper setup, operation, and maintenance of your device. Please read it thoroughly before use to ensure optimal performance and longevity.

## PRODUCT OVERVIEW

The Tihebeyan CS-106 is a versatile portable radio capable of receiving FM, AM, Shortwave (SW), Longwave (LW), and TV sound frequencies. It features an LCD display, alarm clock functionality, and memory for storing your favorite stations.



**Figure 1:** Front view of the Tihebeyan CS-106 radio, showing the LCD display, speaker grille, and various control buttons for tuning, volume, and mode selection.



**Figure 2:** Side panel detail of the radio, illustrating the 3.5mm headphone jack, Micro USB power input, and the main ON/OFF switch.



**Figure 3:** Rear view of the radio, highlighting the battery compartment and the product specification label.

## SETUP

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### 1. Battery Installation

1. Locate the battery compartment on the back of the radio (refer to Figure 3).
2. Slide the battery compartment cover downwards to open it.
3. Insert two (2) AA batteries (not included), ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.

**Caution:** Do not mix new and old batteries, or different types of batteries.

### 2. Powering the Radio

- **Battery Power:** Once batteries are installed, slide the ON/OFF switch (located on the side, refer to Figure 2) to the 'ON' position.
- **External Power:** Connect a Micro USB cable (not included) to the Micro USB port on the side of the radio (refer to Figure 2) and to a 3V-5V DC power supply. The radio supports external power operation and charging (if using rechargeable AA batteries).

## OPERATING INSTRUCTIONS

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### 1. Power On/Off

- To turn on the radio, slide the ON/OFF switch to the 'ON' position.
- To turn off the radio, slide the ON/OFF switch to the 'OFF' position. This completely powers down the unit, preventing battery drain.

### 2. Band Selection (FM/AM/SW/LW/TV Sound)

Press the corresponding band buttons (FM, MW, SW) on the front panel to switch between frequency bands. The display will show the currently selected band.

- **FM:** Frequency Modulation band.
- **MW:** Medium Wave (AM) band.
- **SW:** Shortwave band.
- **LW:** Longwave band (accessible via SW band selection, then tuning).
- **TV Sound:** Specific FM frequencies are allocated for TV sound reception (FM3, FM4).

### 3. Tuning

The radio supports both manual and automatic tuning.

- **Manual Tuning:** Use the 'TUNING' up/down arrow buttons to adjust the frequency incrementally. The default step values are: FM 0.05MHz, SW 0.005MHz, MW 9KHz or 10KHz (depending on region, Type 1 is 10KHz).
- **Automatic Search:** Press and hold the 'MEMORY' button to initiate an automatic scan for available stations. The radio will scan and save stations automatically.

### 4. Saving and Recalling Stations

The radio can store up to 60 stations (20 each for FM, MW, and SW).

- **To Save Manually:** Tune to the desired station. Press the 'M+' button. The display will show a memory location. Use the tuning buttons to select a different memory location if desired, then press 'M+' again to confirm.
- **To Recall:** Press the 'FAVORITE' button to cycle through saved stations.

## 5. Volume Control

Use the 'VOLUME' up/down arrow buttons to adjust the sound level.

## 6. Stereo Mode (FM Only)

To activate FM stereo mode:

1. Ensure you are in FM mode and plug in earphones (refer to Figure 4).
2. Press and hold the 'MEMORY' button for approximately 2 seconds. The word "STEREO" will appear on the display.

To deactivate stereo mode, press and hold the 'MEMORY' button again, or unplug the earphones.



**Figure 4:** The radio with earphones connected, illustrating the setup for stereo listening.

## 7. Clock and Alarm Function

The radio includes a clock and alarm function. Refer to the 'TIME', 'HOUR', and 'MINUTE' buttons on the front panel to set the time and alarm. Detailed instructions for setting the alarm are typically found in the quick start

guide included with the product.

## 8. Mute Function

Press the 'MUTE' button to temporarily silence the radio. Press it again to restore sound.

## 9. Lock Function

Press the 'LOCK' button to prevent accidental button presses. The display will show a lock icon. Press it again to unlock.

## SPECIFICATIONS

Receiving Sensitivity (MW)	Better than 10 mV / M
Receiving Sensitivity (FM)	Better than 18 dB
Receiving Sensitivity (SW)	Better than 60V
FM1 Frequency Range	50-88 MHz
FM2 Frequency Range	87-108 MHz
FM3 (TV Sound 1)	56.25-91.75 MHz
FM4 (TV Sound 2)	174.2-222.25 MHz
MW (9K) Frequency Range	522-1620 KHz
MW (10K) Frequency Range	520-1710 KHz
LW (Long Wave) Frequency Range	153-279 KHz
SW1-SW7 Frequency Range	3.2-21.9 MHz (divided into 7 bands)
Number of Storage Stations	60 (20 for SW, 20 for MW, 20 for FM)
Single Signal Selectivity	Better than 10dB
Internal Speaker	Diameter 57MM, 8 Ohm, 0.5 Watts
External Headphones	3.5mm jack / 32 Ohm x 2
Battery	2 x AA batteries (not included)
External Power Supply	3V-5V DC (via Micro USB)
Low Operating Voltage	2V
Stereo Resolution	≥32dB
Distortion	≤1%
Working Temperature	-15°C to 80°C
Output Power	≥220mW
Dimensions (L x W x H)	125 x 77.25 x 21 mm (4.92"L x 3.04"W x 0.83"H)
Weight	190g (6.7 ounces) without batteries





Figure 5: Physical dimensions of the Tihebeyan CS-106 radio.

## MAINTENANCE

- **Cleaning:** Wipe the radio with a soft, dry cloth. Do not use liquid cleaners or abrasive materials.
- **Battery Care:** Remove batteries if the radio will not be used for an extended period to prevent leakage.
- **Storage:** Store the radio in a cool, dry place away from direct sunlight and extreme temperatures.
- **Antenna:** Handle the telescopic antenna gently to avoid damage. Extend it fully for best reception.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on.	Batteries are dead or incorrectly installed. External power not connected or faulty. ON/OFF switch is off.	Check battery polarity and replace if necessary. Ensure Micro USB cable is securely connected to a working power source. Slide ON/OFF switch to 'ON'.
Poor reception or static.	Antenna not extended. Weak signal. Interference from other electronic devices.	Fully extend the telescopic antenna. Try repositioning the radio. Move away from other electronics. For AM/LW, rotate the radio for best signal.
Cannot tune to a specific station.	Incorrect band selected. Station out of range. Tuning step incorrect.	Verify the correct frequency band (FM, MW, SW). Ensure the station broadcasts in your region. Check if the MW tuning step (9KHz/10KHz) matches your region's standard.
No sound from speaker.	Volume too low. Mute function activated. Headphones plugged in.	Increase volume. Press 'MUTE' button to deactivate. Unplug headphones if you want sound from the speaker.

Display shows 'LOCK'.	Key lock function is active.	Press the 'LOCK' button again to deactivate the key lock.
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## WARRANTY AND SUPPORT

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For warranty information or technical support, please refer to the documentation provided at the time of purchase or contact your retailer. Keep your purchase receipt as proof of purchase.