

TECSUN S-2000

TECSUN S-2000 Ham Amateur Radio User Manual

Model: S-2000

1. INTRODUCTION

This manual provides detailed instructions for the operation and maintenance of your TECSUN S-2000 Ham Amateur Radio. The S-2000 is a dual-conversion PLL receiver designed for comprehensive reception across FM, Medium Wave (MW), Shortwave (SW), Longwave (LW), and Air Bands, featuring Single Sideband (SSB) capabilities. Please read this manual thoroughly to ensure proper use and to maximize your listening experience.

2. SAFETY INFORMATION

- Do not expose the radio to rain or moisture to prevent fire or electric shock.
- Do not open the radio casing. Refer all servicing to qualified personnel.
- Use only the specified power source (batteries or appropriate AC adapter).
- Keep the radio away from heat sources and direct sunlight.
- Ensure proper ventilation around the unit during operation.
- Dispose of batteries according to local regulations.

3. PRODUCT OVERVIEW

The TECSUN S-2000 is a robust radio receiver with a comprehensive set of features for amateur radio enthusiasts and general listeners.

Key Features:

- **Frequency Coverage:** FM, MW, SW, LW, Air Band.
- **Tuning Technology:** Dual Conversion PLL with SSB (Single Sideband) reception.
- **Display:** LCD or LED type for clear frequency and status indication.
- **Audio Output:** Stereo via 3.5mm earphone jack, internal speaker (8 Ω /2W, Φ 100mm).
- **Connectivity:** Auxiliary input for external audio devices (smartphones, MP3 players, laptops).
- **Power Source:** Battery-powered (rechargeable capability) or 220V AC via adapter.

- **Dimensions:** 372mm (W) × 183mm (H) × 153mm (D).
- **Weight:** Approximately 2.7 kg (5.95 lbs) without batteries.
- **Operating Temperature:** -5°C to +50°C.

Controls and Ports:

The front panel features various buttons for band selection, tuning, memory functions, and volume control. The side panels include antenna terminals and audio input/output ports.



Figure 3.1: Front-side view of the TECSUN S-2000 radio, showing the main display, tuning knob, and various control buttons. The telescopic antenna is extended.



Figure 3.2: Front view of the TECSUN S-2000 radio, highlighting the speaker grille, signal meter, LCD display, and the arrangement of control buttons and knobs.



Figure 3.3: Side view of the TECSUN S-2000 radio, showing the robust carrying handle and the side panel details.

4. SETUP

4.1 Powering the Radio

The TECSUN S-2000 can be powered by batteries or an external AC power source.

- **Battery Installation:** Open the battery compartment on the rear of the unit. Insert the required batteries, ensuring correct polarity. The radio supports rechargeable batteries.
- **AC Power:** Connect a compatible 220V AC adapter (not always included, may require separate purchase) to the DC input jack on the radio and then to a wall outlet.

4.2 Antenna Connection

The radio includes a built-in telescopic antenna for FM and Air Band, and an internal AM antenna for MW/LW. For optimal reception, especially on Shortwave (SW) and Single Sideband (SSB), external antennas are recommended.

- **Telescopic Antenna:** Extend the telescopic antenna fully for FM and Air Band reception. Adjust its angle for best signal.
- **External Antenna:** Connect an external antenna to the designated antenna terminals on the radio. Two antenna terminals are provided. For Shortwave and SSB, a dedicated external antenna will significantly improve signal quality and reception range.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press the **POWER** button to turn the radio on or off.

5.2 Band Selection

Use the dedicated band buttons (e.g., **FM**, **MW**, **SW**, **LW**, **AIR**) to select the desired frequency band.

5.3 Tuning

- **Manual Tuning:** Rotate the main **TUNING** knob to adjust the frequency. The frequency will be displayed on the LCD screen.
- **Fine Tuning:** For precise tuning, especially in SSB mode, use the **FINE TUNE** control.
- **Direct Frequency Entry:** Use the numeric keypad to enter a frequency directly, then press **ENTER**.
- **Scanning:** Refer to the specific instructions in your included user manual for automatic scanning functions within selected bands.

5.4 Single Sideband (SSB) Operation

The S-2000 supports SSB reception, crucial for amateur radio and utility communications.

- Select the **SW** band.
- Press the **SSB** button to activate SSB mode.
- Use the **BFO** (Beat Frequency Oscillator) or **FINE TUNE** control to clarify the SSB signal. Adjust until the voice sounds natural.

5.5 Memory Functions

The radio allows you to store and recall your favorite stations.

- **Storing a Station:** Tune to the desired frequency. Press the **STORE** button, then select a memory location using the tuning knob or numeric keypad, and press **ENTER**.
- **Recalling a Station:** Press the **RECALL** button, then select the memory location and press **ENTER**.

5.6 Auxiliary Input

Connect external audio devices like smartphones, MP3 players, or laptops using the included auxiliary cable to the **AUX IN** port. Select the AUX input mode on the radio to play audio through its speaker.

6. MAINTENANCE

6.1 Cleaning

Wipe the radio's exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents. For stubborn dirt, a slightly damp cloth can be used, followed by a dry cloth.

6.2 Battery Care

If the radio will not be used for an extended period, remove the batteries to prevent leakage and damage. If using rechargeable batteries, ensure they are charged regularly according to their specifications.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Batteries are dead or incorrectly inserted; AC adapter not connected or faulty.	Replace batteries or check polarity; ensure AC adapter is securely connected and functional.
Poor reception	Antenna not extended; weak signal; interference; incorrect band selected.	Extend telescopic antenna; try an external antenna; move away from interference sources; verify correct band selection.
SSB signal unclear	BFO/Fine Tune not adjusted correctly.	Adjust the BFO or Fine Tune control slowly until the voice is clear.
No audio from speaker	Volume too low; headphones connected; speaker faulty.	Increase volume; disconnect headphones; if problem persists, contact support.

8. SPECIFICATIONS

Feature	Specification
Brand	TECSUN
Model Number	S-2000
Color	Black
Dimensions (W×H×D)	372 × 183 × 153 mm
Weight (without batteries)	2.7 kg (5.95 lbs)
Operating Temperature	-5°C to +50°C

Feature	Specification
Supported Radio Bands	FM, SSB, MW, SW, LW, Air Band
Tuning Technology	SSB (Single Sideband)
Power Source	Battery Powered (rechargeable), 220 Volts AC input
Max Power Output	2 Watts
Earphone Jack	Φ 3.5mm, 8~32 Ω, stereo type
Internal Speaker	8 Ω /2W, Φ100mm
Display Type	LCD or LED
Connectivity Technology	Auxiliary (3.5mm Audio Interface)
Compatible Devices	Smartphone, MP3 player, laptop (via Aux input)
Included Components	Auxiliary cable, 2 x Antenna Terminal
UPC	717850113667

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your retailer. For technical support or service inquiries, please contact TECSUN customer service through their official website or the contact information provided with your product.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question