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Carpango TEF6686

Carpango TEF6686 Full Band Radio Receiver User Manual

Model: TEF6686

1. Introduction

This manual provides comprehensive instructions for the Carpango TEF6686 Full Band Radio Receiver. It covers the device's features, setup, operation, maintenance, and troubleshooting. Please read this manual carefully before using the receiver to ensure proper operation and to maximize your listening experience.
The TEF6686 receiver is designed to provide reception across multiple frequency bands, including FM, AM (Medium Wave), Shortwave (HF), and Long Wave (LW). It features a sensitive reception chip, a 3.2-inch LCD display, and a built-in rechargeable battery.

Included Components:

- Carpango TEF6686 Full Band Radio Receiver
- Telescopic Antenna
- USB Type-C Charging Cable

2. Safety Information

- Do not expose the device to extreme temperatures, direct sunlight, or high humidity.
- Avoid dropping or subjecting the device to strong impacts.
- Do not attempt to disassemble or modify the receiver. This may void the warranty and cause damage.
- Use only the provided charging cable or a compatible USB Type-C cable for charging.
- Keep the device away from water and other liquids.
- Dispose of the battery and device according to local regulations.

3. Product Overview

The Carpango TEF6686 is a versatile full-band radio receiver. Its compact design houses a powerful TEF6686 reception chip, ensuring strong signal resolution and sensitivity across various frequencies. The device features a 3.2-inch LCD screen for clear display of frequency and other information, and is powered by a built-in 3000 mAh rechargeable battery.



Figure 3.1: Front view of the TEF6686 receiver with the display active and telescopic antenna extended.

Note on Casing: The receiver's casing is 3D printed, which may result in a rougher finish compared to injection-molded products. This does not affect the device's functionality.

Key Features:

- **Full Band Reception:** Supports FM (65-108 MHz), AM (149-27000 kHz), Shortwave (HF), and Long Wave (LW).
- **High Sensitivity:** Equipped with the TEF6686 reception chip for excellent signal capture.
- **Large LCD Display:** 3.2-inch non-touch screen for clear frequency and status indication.
- **Built-in Rechargeable Battery:** 3000 mAh lithium battery for portable use.
- **Integrated Speaker:** High-quality speaker for clear audio output.
- **Telescopic Antenna:** Included for enhanced signal reception.
- **USB Type-C Charging:** Modern and convenient charging interface.
- **RDS Support:** Compatible with Radio Data System for FM broadcasts.

4. Setup

4.1 Charging the Battery

1. Locate the USB Type-C charging port on the side of the receiver.
2. Connect the provided USB Type-C cable to the receiver's charging port.
3. Connect the other end of the USB cable to a compatible USB power adapter (not included) or a computer's USB port.
4. The display will indicate charging status. A full charge typically takes several hours.
5. Disconnect the charging cable once the battery is fully charged.



Figure 4.1: Side view of the receiver, highlighting the USB Type-C charging port.

4.2 Attaching the Antenna

1. Locate the antenna connector on the top of the receiver.
2. Screw the telescopic antenna clockwise onto the connector until it is secure.
3. For optimal reception, extend the telescopic antenna fully when operating the radio.



Figure 4.2: Top view of the receiver, showing the antenna connection.

5. Operating Instructions

5.1 Power On/Off

- To power on the receiver, press and hold the **POWER** button located on the right side of the device.
- To power off, press and hold the **POWER** button again until the display turns off.

5.2 Band Selection (MODE)

- After powering on, press the **MODE** button to cycle through the available frequency bands: FM, AM, Shortwave (HF), and Long Wave (LW).

- The currently selected band will be indicated on the LCD display.

5.3 Tuning

- Use the **TUNE** knob (top knob on the right side) to manually adjust the frequency. Turn clockwise to increase frequency, counter-clockwise to decrease.
- The display will show the current frequency.
- For automatic scanning, some firmware versions may support a short press of the TUNE knob or a specific button combination. Refer to the on-screen prompts if available.

5.4 Volume Control

- The bottom knob on the right side is the **POWER**/Volume knob. Rotate it to adjust the audio output level.

5.5 Squelch (SQL)

- The **SQL** button (bottom button on the right side) may activate or adjust the squelch function, which mutes the audio output when the signal strength falls below a certain threshold. This is useful for reducing background noise on weak signals.

5.6 Display Information

The 3.2-inch LCD display provides essential information:

- **Frequency:** The main large numbers indicate the current tuning frequency.
- **Bandwidth (BW):** May show the selected audio bandwidth.
- **Signal Strength (S):** An indicator bar showing the strength of the received signal.
- **S/N Ratio:** Signal-to-Noise ratio, indicating signal clarity.
- **Battery Level:** An icon or percentage indicating the remaining battery charge.
- **RDS (Radio Data System):** If available on FM broadcasts, information like station name or program type may be displayed.

6. Maintenance

6.1 Cleaning

- Wipe the receiver with a soft, dry cloth.
- Do not use abrasive cleaners, solvents, or strong chemicals, as these can damage the casing and display.

6.2 Battery Care

- To prolong battery life, avoid fully discharging the battery frequently.
- If storing the device for an extended period, charge the battery to approximately 50% and store in a cool, dry place. Recharge every few months to prevent deep discharge.

6.3 Storage

- Store the receiver in a dry, dust-free environment when not in use.
- Retract the telescopic antenna to prevent damage during storage or transport.

7. Troubleshooting

Problem	Possible Cause	Solution
No power / Device won't turn on.	Battery is discharged.	Charge the battery using the USB Type-C cable.
Poor reception / Static.	Antenna not extended or improperly connected. Weak signal in the area. Interference from other electronic devices.	Fully extend the telescopic antenna. Try repositioning the receiver. Move away from potential sources of interference.
No sound.	Volume is too low. Squelch (SQL) is too high.	Increase the volume. Adjust or disable the Squelch (SQL) function.
Display is blank or frozen.	Temporary software glitch.	Press and hold the POWER button for 10-15 seconds to force a restart. If the issue persists, ensure the battery is charged.

8. Specifications

Model Number	TEF6686
Brand	Carpango
Supported Frequency Bands	FM (65 MHz - 108 MHz), AM/HF/LW (144 kHz - 27000 kHz)
Tuner Technology	TEF6686 Chip
Display Type	3.2-inch LCD (Non-touch)
Power Source	Built-in 3000 mAh Rechargeable Lithium Battery, USB Type-C (Corded Electric)
Charging Interface	USB Type-C
Special Features	Rechargeable, RDS Compatible
Dimensions (approx.)	105 x 105 x 27 mm
Color	Blue
Firmware Version	1.20
SSB Support	No

9. Warranty and Support

For warranty information and customer support, please refer to the purchase documentation or contact the seller directly. Keep your proof of purchase for any warranty claims.

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