

icom ic 735 user manual

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The icom ic 735 user manual serves as a vital resource for both novice and experienced operators of this versatile HF transceiver. The Icom IC-735 was introduced in the late 1980s and quickly gained popularity for its user-friendly design and robust performance. This article aims to provide an in-depth overview of the IC-735, its features, and the essential aspects covered in the user manual.

Overview of the Icom IC-735

The Icom IC-735 is a hybrid HF transceiver that operates on all amateur HF bands from 160 to 10 meters. It incorporates advanced features such as single sideband (SSB), amplitude modulation (AM), and continuous wave (CW) modes. The transceiver also includes a built-in automatic antenna tuner and offers various digital modes, making it a favorite among amateur radio operators.

Key Features

1. Frequency Range: The IC-735 covers 1.8 to 30 MHz, accommodating a wide range of amateur bands.
2. Modes of Operation: Supports SSB, CW, AM, and FM modes.
3. Built-in Tuner: The automatic antenna tuner simplifies operations by matching the impedance of the antenna.
4. Digital Signal Processing (DSP): Reduces noise and enhances audio quality, making it easier to pick out signals in crowded bands.
5. User-Friendly Interface: The layout of buttons and knobs is intuitive, allowing for easy adjustments while operating.
6. Memory Channels: Up to 100 memory channels for storing frequencies and settings, enabling quick access to favorite contacts.

Getting Started with the IC-735

To maximize the effectiveness of the IC-735, users must understand how to set it up and operate it properly. The user manual provides comprehensive guidance on installation, connections, and initial settings.

Installation

1. Unpacking: Start by carefully unpacking the transceiver and ensuring all components are

included.

2. Location: Choose a location that is free from interference, has adequate ventilation, and is easily accessible.
3. Power Supply: Connect the IC-735 to a suitable power supply. The operating voltage is typically 13.8V DC.
4. Antenna Connection: Attach the antenna to the ANT connector. The manual provides details on suitable antennas for different bands.

Initial Settings

1. Power On: Turn on the power switch and observe the display.
2. Volume Control: Adjust the volume to a comfortable listening level.
3. Mode Selection: Choose the desired operating mode (SSB, CW, AM, or FM) using the mode switch.
4. Tuning: Use the tuning knob to select your desired frequency. The manual includes a frequency chart for quick reference.

Operating Functions

Understanding the various operating functions of the IC-735 is essential for effective communication. The user manual elaborates on how to use these features for optimal performance.

Tuning and Receiving

- Manual Tuning: Rotate the tuning knob to find signals.
- Automatic Tuning: Engage the automatic tuner to adjust the antenna to the selected frequency.
- Squelch Control: Adjust the squelch control to eliminate background noise when no signal is present.

Transmitting

1. Microphone Connection: Ensure that the microphone is properly connected to the designated port.
2. Power Output: Set the desired power output level using the transmit power control.
3. Push-to-Talk (PTT) Button: Press the PTT button on the microphone to transmit.
4. Voice Levels: Adjust the microphone gain to ensure clear audio transmission.

Memory Functions

Utilizing memory functions allows users to store frequently used frequencies and settings. The manual provides step-by-step instructions for managing memory channels.

- Storing Frequencies:

1. Tune to the desired frequency.
2. Press the memory button.
3. Select a memory channel number and press the memory button again to store.

- Recalling Frequencies:

1. Press the recall button.
2. Select the desired memory channel number.

Maintenance and Troubleshooting

Regular maintenance and troubleshooting are crucial to ensure the longevity and optimal performance of the IC-735. The user manual includes a maintenance section that outlines essential checks.

Routine Maintenance

1. Cleaning: Regularly clean the exterior and ensure vents are free from dust.
2. Inspection: Periodically check connections and cables for wear or damage.
3. Calibration: Refer to the manual for guidance on calibrating the device to maintain accuracy.

Troubleshooting Common Issues

- No Power: Check power connections and ensure the power supply is functioning.
- No Signal: Verify antenna connections and tune to a different frequency.
- Distorted Audio: Adjust the microphone gain and ensure the proper mode is selected.

Advanced Features

The Icom IC-735 is equipped with several advanced features that enhance its functionality, making it suitable for both casual and serious operators. The user manual provides detailed explanations of these features.

Digital Signal Processing (DSP)

DSP technology aids in noise reduction and improves audio clarity. Users can adjust settings to filter out unwanted noise and enhance signal quality.

Data Communication

The IC-735 supports various data communication modes, including RTTY and packet radio. The user manual elaborates on the necessary connections and settings to utilize these modes effectively.

Conclusion

The Icom IC-735 user manual is an indispensable guide for understanding and operating the Icom IC-735 HF transceiver. By following the instructions and guidelines provided, users can maximize their experience with this powerful device. Whether one is a beginner or an experienced operator, the intelligent design and comprehensive features of the IC-735 make it a reliable choice for amateur radio communication. Regular maintenance and a thorough understanding of its functions will ensure successful operation for years to come.

Frequently Asked Questions

What is the primary function of the Icom IC-735?

The Icom IC-735 is a hybrid HF transceiver primarily used for amateur radio communication across various HF bands.

Where can I find the user manual for the Icom IC-735?

The user manual for the Icom IC-735 can be found on the official Icom website or through online amateur radio resources and forums.

What are the key features of the Icom IC-735?

Key features of the Icom IC-735 include SSB, CW, and AM modes, a built-in automatic tuner, and a digital signal processor for improved audio quality.

How do I set up the Icom IC-735 for the first time?

To set up the Icom IC-735, connect the power supply, attach the antenna, and program the initial settings such as frequency and mode according to the user manual.

What troubleshooting steps should I take if the Icom IC-735 won't transmit?

If the Icom IC-735 won't transmit, check the power supply, ensure the antenna is properly connected, verify the mode settings, and consult the troubleshooting section of the user manual.

Can I use the Icom IC-735 for digital modes?

Yes, the Icom IC-735 can be used for digital modes by connecting it to a computer with appropriate software and a sound card interface.

Is there a recommended maintenance routine for the Icom IC-735?

Recommended maintenance for the Icom IC-735 includes regular cleaning, checking connections, inspecting the antenna system, and ensuring firmware is up to date if applicable.

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