

Dynascan DYNASCAN P-72

Dynascan P-72 Dual Band Mobile Radio User Manual

Model: DYNASCAN P-72

1. INTRODUCTION AND OVERVIEW

The Dynascan P-72 is an advanced dual-band mobile amateur radio transceiver designed for reliable communication across VHF and UHF frequencies. Its compact size and robust feature set make it ideal for various amateur radio applications. This manual provides comprehensive instructions for the proper setup, operation, and maintenance of your Dynascan P-72.

Key Features:

- Full Duplex Capability
- Simultaneous Reception of VHF and UHF Frequencies (144-146 MHz / 430-440 MHz)
- 20W Transmission Power
- 255 Memory Channels
- Side Jack for Microphone-Headset or Speaker-Microphone
- Selectable Frequency Steps: 5, 6.25, 10, 12.5, 25, 50, and 100 kHz
- Keypad Lock Function
- Integrated DTMF Keypad
- TOT (Time-Out Timer) Function
- VOX Function
- Built-in Scanner
- Supports 53 CTCSS Tones and 108 DCS Tones
- Backlit LCD Display with Function Indicator
- Commercial FM Radio Function
- Ultra-compact Size

2. PACKAGE CONTENTS

Please check the box carefully to ensure all items are present and in good condition:

- Dynascan P-72 Transceiver Unit
- Handheld Speaker Microphone with Keypad
- DC Power Cable
- Mounting Bracket and Hardware



Figure 2.1: Dynascan P-72 package contents, including the main transceiver unit, handheld speaker microphone, mounting bracket, and power cable.

3. SETUP

Follow these steps to set up your Dynascan P-72 for initial operation.

3.1 Connecting the Microphone

Connect the coiled cable of the handheld speaker microphone to the dedicated jack on the side of the transceiver unit. Ensure the connector is fully inserted to establish a secure connection.

3.2 Power Connection

Connect the supplied DC power cable to the power input on the rear of the transceiver. Connect the other end of the power cable to a stable 13.8 VDC power source capable of supplying sufficient current (e.g., a regulated power supply or vehicle battery). Observe correct polarity (red for positive, black for negative).

3.3 Antenna Connection

Connect a suitable 50 Ohm dual-band antenna (VHF/UHF) to the antenna connector on the rear of the transceiver. Ensure the connection is tight and secure. **Never transmit without an antenna connected, as this can damage the transceiver.**



Figure 3.1: The Dynascan P-72 transceiver with its handheld speaker microphone connected, showing the main display.

4. OPERATING INSTRUCTIONS

This section details the basic operation of your Dynascan P-72.

4.1 Power On/Off

To power on the unit, press and hold the **POWER** button (usually located on the front panel or microphone). To power off, press and hold the same button again.

4.2 Volume and Squelch Adjustment

- **Volume:** Rotate the **VOL** knob (or use volume controls on the microphone) to adjust the audio output level.
- **Squelch:** Rotate the **SQL** knob to set the squelch level. Adjust it until background noise disappears, but weak signals can still be heard.

4.3 Frequency Selection (VFO Mode)

In VFO (Variable Frequency Oscillator) mode, you can directly input or tune to desired frequencies.

1. Press the **VFO/MR** button to switch to VFO mode.
2. Use the main tuning knob on the transceiver or the up/down arrows on the microphone to adjust the frequency.
3. Alternatively, use the DTMF keypad on the microphone to directly enter the desired frequency.

4.4 Channel Operation (Memory Mode)

The P-72 supports 255 memory channels for storing frequently used frequencies and settings.

1. Press the **VFO/MR** button to switch to Memory mode.
2. Use the tuning knob or up/down arrows to scroll through stored memory channels.
3. Refer to the full manual for detailed instructions on storing and deleting memory channels.

4.5 Transmission (PTT)

To transmit, press and hold the **PTT (Push-To-Talk)** button on the side of the handheld microphone. Speak clearly into the microphone. Release the PTT button to return to receive mode.

4.6 Dual Frequency Reception and Full Duplex

The Dynascan P-72 can receive two frequencies simultaneously (VHF and UHF). It also supports full duplex operation, allowing you to transmit on one band while receiving on another.

- The display will show both active frequencies.
- Use the **A/B** button to select which frequency is active for transmission.



Figure 4.1: Angled view of the Dynascan P-72, highlighting the display and control knobs.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Dynascan P-72.

5.1 Cleaning

Wipe the transceiver and microphone with a soft, dry cloth. For stubborn dirt, use a slightly damp cloth with mild soap, then wipe dry. **Do not use harsh chemicals, solvents, or abrasive cleaners.**

5.2 Storage

When not in use for extended periods, store the unit in a cool, dry place away from direct sunlight, extreme temperatures, and excessive dust. Disconnect the power cable and antenna.

5.3 Antenna and Cable Care

Regularly inspect antenna connections and cables for any signs of wear, damage, or corrosion. Ensure all connections remain tight to prevent signal loss and potential damage to the transceiver.

6. TROUBLESHOOTING

If you encounter issues with your Dynascan P-72, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
No Power	Power cable disconnected; incorrect voltage; blown fuse.	Check power cable connection; verify power supply voltage (13.8 VDC); check inline fuse on power cable.
No Audio / Weak Audio	Volume too low; squelch set too high; microphone not connected properly.	Increase volume; lower squelch level; ensure microphone is fully inserted.
Cannot Transmit	Antenna not connected; PTT button faulty; frequency out of band.	Connect antenna securely; test PTT button; ensure frequency is within 144-146 MHz or 430-440 MHz.
Poor Reception	Antenna issue; high interference; squelch too high.	Check antenna connection and condition; move away from interference sources; lower squelch.
Keypad Locked	Keypad lock function activated.	Refer to the manual for the specific key combination to unlock the keypad.

For issues not listed here, or if troubleshooting steps do not resolve the problem, please contact your dealer or a qualified service technician.

7. SPECIFICATIONS

Detailed technical specifications for the Dynascan P-72.

Feature	Specification
Model Number	DYNASCAN P-72
Frequency Range	VHF: 144-146 MHz, UHF: 430-440 MHz
Transmission Power	20 W
Number of Channels	255
Frequency Steps	5, 6.25, 10, 12.5, 25, 50, 100 kHz
Tuner Technology	UHF, VHF
Voltage	13.8 VDC
Antenna Impedance	50 Ohm
Audio Output	2 W
Dimensions (approx.)	121.5 x 66.5 x 42.5 mm
Weight (approx.)	550 g (with microphone)
Color	Black
Special Functions	Keypad Lock, Compact Design

8. WARRANTY AND SUPPORT

The Dynascan P-72 is manufactured by Pihernz Comunicaciones. For warranty information and technical support, please refer to the documentation provided with your purchase or contact your authorized dealer. Keep your proof of purchase for any warranty claims.

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VHF/UHF DUAL BAND FM RADIOAMATEUR MOBILE TRANSCEIVER USERS
MANUAL DYNASCAN P-72 English INDEX 1 of 2 1.- DEFINITIONS 2.-
INTRODUCTION 3.- SAFETY CAUTIONS 4.- MAINTENANCE 5.- INSTALLATION
5.1.- MOBILE INSTALLATION 5.2.- CONNECTING THE DC POWER CABLE 5.2.1.-
Mobile installation 5.2.2.- Fixed station...

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