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› Retevis RT97 GMRS Repeater User Manual

Retevis RT97

Retevis RT97 GMRS Repeater User Manual

Model: RT97 (FA9150C)

1. INTRODUCTION

The Retevis RT97 GMRS Repeater is a portable, full-duplex radio repeater designed to extend the communication range of GMRS two-way radios. It features an LCD screen for displaying operational information and is built for durability and ease of use in various environments. This manual provides essential information for the proper setup, operation, and maintenance of your RT97 repeater.

2. WHAT'S IN THE BOX

Upon unpacking, please verify that all items listed below are present:

- 1X Retevis RT97 GMRS Mobile Radio Repeater
- 1X Charger
- 1X Power Supply
- 1X Car Charger Cable
- 1X User's English Manual



This image displays the complete package contents: the RT97 Repeater unit, a charger, a power supply, a car charger cable, and the user's English manual, along with the product packaging.

3. FEATURES

- **GMRS Frequency Operation:** The repeater operates on GMRS frequencies. Custom frequency versions may be available upon request.
- **Portable Design:** The RT97 is designed for portability, allowing for flexible deployment as a fixed or mobile base station.
- **Multiple Power Options:** Supports various power input methods for versatile use.
- **Wide Signal Coverage:** Enhances signal coverage and penetration for connected radios.
- **Easy Installation and Operation:** Designed for straightforward setup and user interaction.
- **Built-in Duplexer:** Allows simultaneous signal reception and transmission with a single antenna (antenna not included).
- **16 Channels:** Includes 8 default GMRS channels, compatible with various Retevis models such as NR30S, RB48P, RT76P, and RB26.
- **LCD Screen:** Displays essential information including channel details, TX (transmit) and RX (receive) frequencies.
- **Durable Construction:** Compact and rugged, designed to be drop-resistant for extended service life and high reliability.

Multiple Features



8 GMRS Channels



Easy to install



Durable



Portable



High Power

This image highlights key features of the RT97 Repeater, including 8 GMRS channels, ease of installation, durability, portability, and high power output, presented alongside the device.

4. SETUP

Follow these steps to set up your Retevis RT97 GMRS Repeater:

1. **Antenna Connection:** Connect a suitable GMRS antenna to the antenna port on the repeater. Ensure the connection is secure. *Note: An antenna is not included with this package and must be purchased separately. The performance of the repeater is highly dependent on the quality and placement of the antenna.*
2. **Power Connection:** Connect the provided power supply to the repeater's power input port. Plug the power supply into a standard electrical outlet. Alternatively, use the car charger cable for mobile applications.
3. **Placement:** Position the repeater in a location that maximizes signal coverage. Higher elevations and clear line-of-sight to the desired communication area are recommended.
4. **Initial Power-On:** Once the antenna and power are connected, the repeater will power on. The LCD screen will illuminate, displaying default frequency information.



This image displays the front of the Retevis RT97 GMRS Repeater, showcasing its compact, rugged design, LCD screen, and control buttons. A handle is visible at the top for portability.



The RT97 Repeater is shown with its power supply connected, and the LCD screen displays operational frequencies, indicating it is powered on and ready for use.

- **Cleaning:** Regularly wipe the exterior of the repeater with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners. Ensure the LCD screen is kept clean for clear visibility.
- **Environmental Conditions:** Operate the repeater within its specified temperature and humidity ranges. Protect it from direct sunlight, extreme temperatures, and excessive moisture.
- **Connections:** Periodically check all cable connections (antenna, power) to ensure they are secure and free from damage.
- **Ventilation:** Ensure adequate airflow around the repeater to prevent overheating, especially during continuous operation.

7. TROUBLESHOOTING

If you encounter issues with your RT97 Repeater, refer to the following troubleshooting steps:

- **No Power:**
 - Check if the power supply is securely connected to both the repeater and the electrical outlet.
 - Verify that the electrical outlet is functional.
 - Inspect the power cable for any visible damage.
- **Poor Signal Range or No Repeater Function:**
 - Ensure the antenna is properly connected and suitable for GMRS frequencies.
 - Check the antenna's placement; higher and unobstructed locations generally provide better coverage.
 - Verify that your GMRS radios are correctly programmed to use the repeater's frequencies and offset.
 - Confirm that the repeater is powered on and the LCD displays active frequencies.
- **LCD Display Issues:**
 - If the display is blank, check power connections.
 - If the display is unreadable, ensure it is clean and free from condensation.
- **Interference:**
 - Relocate the repeater away from other electronic devices that may cause interference.
 - Ensure the antenna is not too close to metal structures or other antennas.

8. SPECIFICATIONS

Brand	Retevis
Model Number	FA9150C
Item Weight	5.95 pounds
Product Dimensions	6.69 x 12.2 x 11.02 inches
Batteries	1 Lithium Ion battery required (internal)
Wireless Communication Standard	Radio Frequency
Frequency Band Class	Single-Band (GMRS)
Special Feature	Full Duplex, Small and compact, solid and dust-proof
Color	Black



This image provides the physical dimensions of the RT97 Repeater, showing its length (9.4 inches), width (7.5 inches), and height (2.6 inches), indicating its compact size.

9. WARRANTY AND SUPPORT

Retevis provides the following warranty and support for the RT97 GMRS Repeater:

- **Warranty Period:** A 2-year warranty is provided for the radio body, and a 1-year warranty for accessories.
- **Return Policy:** 30 days no-reason return policy.
- **Post-Warranty Service:** Maintenance services are available beyond the warranty period; buyers are responsible for associated costs.
- **Customer Support:** For any inquiries or support needs, please contact Retevis customer service via Amazon. Responses are typically provided within 12 hours.

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.

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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

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