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Midland C1524

Midland BR02 Pro Z Two-Way Radio Kit Instruction Manual

Model: C1524 | Brand: Midland

INTRODUCTION

The Midland BR02 Pro Z is a robust and efficient two-way radio kit designed for professional use in environments such as shops, hotels, and restaurants. This kit provides reliable and rapid communication through its essential functions. Featuring 32 PMR446 channels, 50 CTCSS tones, and 116 DCS codes, the BR02 Pro Z ensures clear and secure conversations. Its lithium-ion battery offers extended operational time, managed by an automatic power-saving function for energy efficiency. This manual will guide you through the setup, operation, and maintenance of your BR02 Pro Z radios.

PACKAGE CONTENTS

Please check the box for the following items:

- 2 x Midland BR02 Pro Z Two-Way Radios
- 2 x MA-21LKi Micro-Earpieces
- 2 x Charging Docks
- 2 x AC Power Adapters for Chargers
- 2 x Belt Clips
- 2 x Lithium-ion Battery Packs (pre-installed or separate)



Image: Complete Midland BR02 Pro Z kit showing two radios, two MA-21LKi micro-earpieces, two charging docks, and two power adapters.

SETUP

1. Battery Installation and Charging

1. Ensure the radio is powered off.
2. If the battery is not pre-installed, align the lithium-ion battery pack with the compartment on the back of the radio and slide it into place until it clicks securely.
3. Place the radio into the charging dock.
4. Connect the AC power adapter to the charging dock and then plug it into a standard wall outlet.
5. The charging indicator light on the dock will illuminate (typically red) to show charging is in progress. It will change color (typically green) when fully charged.
6. Allow approximately 4-6 hours for a full charge before first use.

2. Attaching the Belt Clip

Align the belt clip with the screw holes on the back of the radio and secure it with the provided screws. This allows for convenient carrying.

3. Connecting the Micro-Earpiece (MA-21LKi)

Insert the MA-21LKi micro-earpiece's dual-pin connector into the accessory jack on the side of the radio. Ensure it is firmly seated for proper audio transmission and reception.



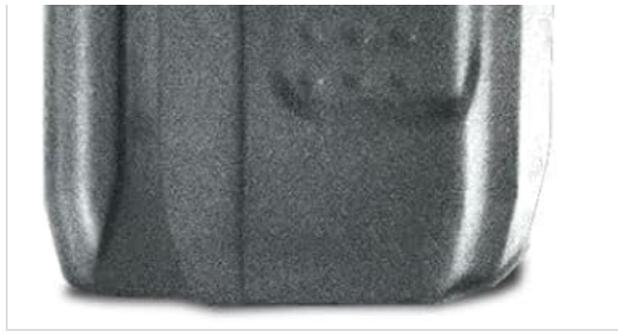


Image: Front view of a single Midland BR02 Pro Z radio, highlighting its robust design and controls.

OPERATING INSTRUCTIONS

1. Power On/Off and Volume Control

- To power on the radio, rotate the **ON/OFF/Volume knob** clockwise until you hear a click and a voice announcement.
- Continue rotating the knob clockwise to increase the volume, and counter-clockwise to decrease it.
- To power off, rotate the knob counter-clockwise until you hear a click.

2. Channel Selection

- The BR02 Pro Z has 32 PMR446 channels (16 + 16 pre-programmed).
- Rotate the **Channel Selector knob** (usually the top-most knob) to choose your desired channel.
- The radio will provide a voice announcement of the selected channel number.
- Ensure all radios you wish to communicate with are set to the same channel and CTCSS/DCS code.

3. Transmitting and Receiving

- To transmit, press and hold the **Push-To-Talk (PTT) button** located on the side of the radio. Speak clearly into the microphone (or earpiece microphone).
- Release the PTT button to stop transmitting and listen for a response.
- The radio will automatically receive transmissions when the PTT button is not pressed.

4. Scan Function

The Scan function allows the radio to constantly check all channels for ongoing conversations. When a signal is detected, the radio will temporarily stop on that channel. This function is typically activated via programming software.

5. Monitor Function

The Monitor function temporarily disables the squelch, allowing you to hear very weak signals or to check if a channel is clear before transmitting. This function is usually assigned to a programmable side button.

6. CTCSS Tones and DCS Codes

The BR02 Pro Z supports 50 CTCSS tones and 116 DCS codes (normal and inverted). These codes help filter out unwanted conversations on the same channel. To communicate, all radios must be set to the same channel and the same CTCSS tone or DCS code. These are typically set via programming software.



BR02 PRO Z

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MAINTENANCE

1. Cleaning

- Wipe the radio's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Ensure no moisture enters the accessory jack or speaker/microphone openings.

2. Battery Care

- To maximize battery life, avoid fully discharging the battery frequently.
- Store the radio and battery in a cool, dry place when not in use for extended periods.
- The radio features an automatic power-saving function to optimize battery consumption.

3. General Care

- Avoid dropping the radio or subjecting it to strong impacts.
- Keep the radio away from extreme temperatures and direct sunlight.
- The radio is not waterproof; avoid exposure to water or high humidity.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on.	Battery is discharged or not properly installed.	Charge the battery fully. Ensure the battery is correctly seated in its compartment.
Cannot transmit or receive.	Incorrect channel or CTCSS/DCS code. Out of range.	Verify all radios are on the same channel and code. Move closer to the other radio.
Poor audio quality or no sound.	Volume too low. Earpiece not connected properly. Squelch setting too high.	Increase volume. Re-insert earpiece connector firmly. Use the Monitor function to check for weak signals.
Battery life is shorter than expected.	Battery not fully charged. Old battery. Frequent transmissions.	Ensure battery is fully charged. Consider replacing old batteries. Minimize unnecessary transmissions.

SPECIFICATIONS

- **Model:** C1524
- **Brand:** Midland
- **Color:** Black
- **Number of Channels:** 32 PMR446 (16 + 16 pre-programmed)
- **Frequency Range:** 446.00625 - 446.09375 MHz
- **CTCSS Tones:** 50
- **DCS Codes:** 116 (Normal and Inverted)
- **Maximum Range:** Up to 12 Kilometers (depending on terrain and conditions)
- **Battery Type:** Lithium-ion (2000 mAh, 7.4V)

- **Battery Life:** Up to 24 hours (typical usage)
- **Special Features:** Rechargeable batteries, Scan function (programmable), Monitor function, Automatic Power Save, Voice Announcements, Low battery voice indication
- **Weight:** 180 g (including battery)
- **Dimensions:** 118 x 60 x 35 mm (antenna excluded)
- **Water Resistance Level:** Not waterproof
- **Compatible Accessories:** MA-21LKi micro-earpieces and other compatible two-pin accessories.

WARRANTY AND SUPPORT

Warranty Information

Specific warranty details for the Midland BR02 Pro Z are not provided in the product information. Please refer to the warranty card included with your purchase or contact Midland customer service for detailed warranty terms and conditions.

Customer Support

For technical assistance, troubleshooting beyond this manual, or inquiries regarding spare parts and software updates, please contact Midland customer support. You can typically find contact information on the manufacturer's official website or on the product packaging.

Please note that information regarding spare parts availability and guaranteed software updates is not available in the provided product details.