Midland C422.16

Midland Alan 48 Pro CB Radio Instruction Manual

Model: C422.16
Brand: Midland

Product Overview

The Midland Alan 48 Pro is a multiband CB radio transceiver designed for vehicle use. It features a multifunctional LCD display, a 6-pin microphone, and various advanced functions to enhance communication clarity and range. This manual provides detailed instructions for the proper setup, operation, and maintenance of your Alan 48 Pro CB radio.



Figure 1: Midland Alan 48 Pro CB Radio with its included precision series microphone.

Setup and Installation

Proper installation is crucial for optimal performance and safety. Ensure your vehicle's electrical system is compatible with the radio's power requirements (13 Volts DC).

1. **Mounting the Radio:**
   Select a secure and accessible location in your vehicle, away from direct sunlight and excessive heat. Use the provided mounting bracket and screws to firmly attach the radio. Ensure adequate ventilation around the unit.



Figure 2: The Alan 48 Pro radio, microphone, and included mounting hardware.

2. **Power Connection:**
   Connect the radio's power cable to your vehicle's 12V DC power source. The red wire connects to the positive (+) terminal, and the black wire connects to the negative (-) or ground terminal. It is recommended to connect directly to the battery or a fused accessory circuit to prevent electrical issues.
3. **Antenna Connection:**
   Connect a suitable CB antenna (not included) to the antenna connector on the rear of the radio. Ensure the antenna is properly tuned for the CB frequency band to achieve maximum range and prevent damage to the radio.
4. **Microphone Connection:**
   Plug the 6-pin microphone connector into the corresponding port on the front panel of the radio. Ensure it is securely seated.

Operating Instructions

Familiarize yourself with the controls and functions of your Midland Alan 48 Pro for effective communication.



Figure 3: Detailed view of the Alan 48 Pro's front panel, showing the LCD and control knobs.

Basic Controls:

- **ON/OFF VOL (Volume):** Rotate clockwise to turn the radio on and adjust the listening volume.
- **CHANNEL Knob:** Rotate to select the desired communication channel (40 channels available).
- **DSQ (Digital Squelch):** Adjusts the squelch level to eliminate background noise when no signal is present. Rotate clockwise to increase the squelch level.
- **RF GAIN:** Controls the receiver sensitivity. Adjust to optimize reception, especially in areas with strong or weak signals.
- **MIC GAIN:** Adjusts the microphone amplification level. Set to an appropriate level for clear transmission.
- **AM/FM Switch:** Selects between Amplitude Modulation (AM) and Frequency Modulation (FM) modes.
- **EMG Button:** Quickly accesses emergency channel 9.

Advanced Functions:

- **SCAN Function:** Activates channel scanning, allowing the radio to automatically search for active channels.
- **Dual Watch (DW):** Monitors two channels simultaneously. The radio will switch to the active channel if a signal is detected on either.
- **Noise Blanker (NB):** Reduces continuous ambient noise, improving signal clarity.
- **ANL (Automatic Noise Limiter):** Further reduces impulse noise, such as ignition interference.
- **LOCAL/DX Switch:** Adjusts receiver sensitivity for local (strong signals) or distant (weak signals) communication.
- **Power Adjustment (1W/4W):** The radio allows for adjustable power output (1W or 4W) to comply with specific country

regulations. Refer to local laws for appropriate settings.

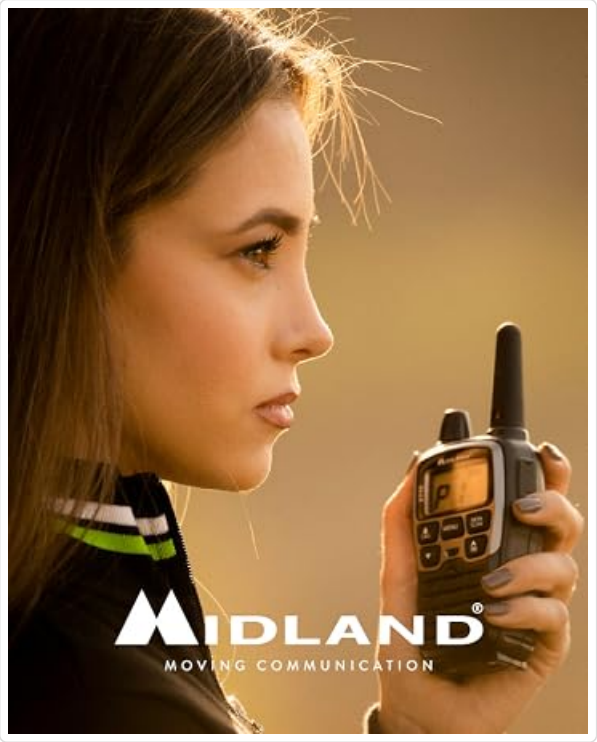


Figure 4: User operating the Midland Alan 48 Pro CB radio inside a vehicle.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your CB radio.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the radio. Do not use abrasive cleaners or solvents.
- **Connections:** Periodically check all cable connections (power, antenna, microphone) to ensure they are secure and free from corrosion.
- **Antenna Tuning:** Ensure your antenna remains properly tuned. An untuned antenna can lead to poor performance and potential damage to the radio's output stage.
- **Environmental Protection:** Protect the radio from extreme temperatures, direct moisture, and excessive dust.

Troubleshooting

This section addresses common issues you might encounter with your Midland Alan 48 Pro CB radio.

Problem	Possible Cause	Solution
No power to the radio.	Loose power connection, blown fuse, vehicle battery issue.	Check power cable connections. Inspect and replace fuse if necessary. Verify vehicle battery voltage.
Poor reception or static.	Improper squelch setting, untuned antenna, external interference, weak signal.	Adjust DSQ (Digital Squelch) and RF GAIN. Check antenna connection and tuning. Activate NB (Noise Blanker) or ANL (Automatic Noise Limiter).
Cannot transmit or low transmission power.	Microphone not connected properly, antenna issue, power output setting.	Ensure microphone is securely connected. Check antenna SWR. Verify power output setting (1W/4W) is appropriate.

Problem	Possible Cause	Solution
Display is dim or unreadable.	Backlight setting, power issue.	Check power supply. Ensure no settings are dimming the display.

Specifications

Key technical specifications for the Midland Alan 48 Pro CB Radio:

- **Brand:** Midland
- **Model Number:** C422.16
- **Color:** Black
- **Number of Channels:** 40
- **Frequency Range:** 26.565 to 27.99125 MHz
- **Maximum Range:** 4 Kilometers (dependent on conditions and antenna)
- **Voltage:** 13 Volts (DC)
- **Special Features:** Noise Suppression (Digital Squelch, Noise Blanker), RF Gain, MIC Gain, SCAN, Dual Watch
- **Water Resistance Level:** Not Water Resistant
- **Product Dimensions:** 39.4D x 48.3W x 12.7H centimeters
- **Compatible Devices:** CB Radios

Warranty and Support

Midland provides support and warranty coverage for your product.

- **Manufacturer Warranty:** This product comes with a 2-year manufacturer warranty. Please retain your proof of purchase for warranty claims.
- **Spare Parts Availability:** Information regarding spare parts availability is currently unavailable.
- **Software Updates:** Information regarding guaranteed software updates is currently unavailable.
- **Customer Support:** For further assistance, technical support, or warranty service, please contact Midland customer support through their official website or authorized service centers.

Important Notes

No official product videos from the seller were found for embedding in this manual.

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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.

Name

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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