

[Manuals.plus](#) /

› [Radioddity](#) /

› Radioddity CB-606 PRO CB Radio Instruction Manual

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Radioddity CB-606 PRO CB Radio Instruction Manual

Model: CB-606 PRO

1. INTRODUCTION AND OVERVIEW

The Radioddity CB-606 PRO is an advanced mobile CB radio designed for reliable communication across 40 CB channels. This transceiver supports AM, FM, and PA modes, offering versatility for various communication needs. Key enhancements in the PRO model include Noise Blanker (NB) technology for clearer audio, dual 12V/24V power system compatibility, and an advanced cooling structure for improved performance and durability. Its user-friendly design features a 2.2-inch amber color display with adjustable backlight levels for optimal visibility in all conditions.

2. INCLUDED COMPONENTS

Please verify that all items listed below are present in your package:

- 1 x CB-606 Pro CB Radio
- 1 x Detachable Microphone
- 1 x Mounting Bracket
- 1 x Microphone Hanger
- 2 x Non-slip Mats
- 2 x Adjusting Screws
- 1 x Spare Fuse (5A, 250V)
- 4 x Tapping Screws
- 4 x Pads
- User Manual



Image: All components included in the Radioddity CB-606 PRO package.

3. PRODUCT FEATURES

- **Enhanced Performance (PRO Model):** Features Noise Blanker (NB) for clearer communication, compatibility with both 12V and 24V power systems, and an advanced cooling design for durability.
- **40 CB Channels with Scanning:** Access all 40 CB channels. Easily scan frequencies, channels, CTCSS, and DCS to find clear signals.
- **Multi-Mode Support:** Operates in AM, FM, and PA (Public Address) modes. External speaker connectivity enhances audio quality.
- **User-Friendly Display:** Large 2.2-inch amber backlit screen with three adjustable brightness levels for excellent night-time visibility.
- **Background Noise Reduction:** Advanced Noise Blanker (NB) technology, along with Automatic Squelch (ASQ) and Manual Squelch (SQ), filters unwanted noise for clear communication.
- **Dual Voltage Support:** Compatible with both 12V and 24V vehicle electrical systems.
- **Special Features:** Automatic Squelch, Digital Display, Long Range capability, Noise Reduction, Roger Beep.

- **Frequency Range:** 26.965-27.405 MHz.
- **Talking Range Maximum:** Up to 20 miles (environment dependent).



Image: Radioddity CB-606 PRO CB Radio front view.



Image: Detailed diagram of the CB-606 PRO radio's controls and ports.



Image: Graphic highlighting key features of the CB-606 PRO.

4. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance of your Radioddity CB-606 PRO. This radio is designed for mobile use and can be installed in vehicles with either 12V or 24V power systems. Ensure a secure mounting location that does not obstruct driving or airbag deployment. Connect the power cables directly to the vehicle's battery or a suitable fused power source, ensuring correct polarity (red to positive, black to negative/ground). The antenna should be mounted in a location that provides a clear line of sight and a good ground plane for best signal transmission and reception. Connect the antenna cable to the SO-239 antenna jack on the rear of the radio.

Video: This video demonstrates how to install the Radioddity CB-606 PRO CB Radio into a vehicle, focusing on power and antenna connections.



Image: Demonstrates the dual 12V and 24V power compatibility of the CB-606 PRO in various vehicles.



Image: The compact size of the CB-606 PRO allows for flexible installation in vehicle interiors.

5. OPERATING INSTRUCTIONS

Familiarize yourself with the controls and display of your CB-606 PRO for effective operation.

Basic Operation:

- **Power On/Off & Volume:** Rotate the top knob on the right side of the unit clockwise to power on and adjust volume.
- **Channel Selection:** Use the 'CH' up/down buttons on the front panel or the microphone to change channels (1-40).
- **AM/FM/PA Mode:** Press the 'AM/FM PA' button to cycle through Amplitude Modulation (AM), Frequency Modulation (FM), and Public Address (PA) modes.
- **Squelch (SQ/ASQ):** Rotate the bottom knob on the right to adjust manual squelch (SQ). Press the 'ASQ' button to activate Automatic Squelch.
- **Noise Blanker (NB):** Press the 'SCAN NB' button to activate the Noise Blanker function, reducing impulse noise.
- **Emergency Channels:** Press the 'EMG' button to instantly access emergency channels 9 or 19.
- **Menu:** Press the 'MENU' button to access advanced settings such as brightness, Roger Beep, VOX sensitivity, and

Time Out Timer (TOT).

Video: A detailed walkthrough of the CB-606 PRO's full menu and functions.



Image: The 2.2-inch amber display clearly shows the selected channel (40) in a vehicle environment.

ADJUSTABLE BACKLIGHT

Three Brightness Levels for Optimal Viewing



 2.2"

Image: The adjustable backlight feature provides three brightness levels for optimal viewing in various lighting conditions.



Image: Instant access to emergency channels 9 or 19 for critical situations.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Radioddity CB-606 PRO, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the radio's exterior. Avoid abrasive cleaners or solvents.
- **Connections:** Periodically check all cable connections (power, antenna, microphone) to ensure they are secure and

free from corrosion.

- **Antenna SWR:** Regularly check your antenna's Standing Wave Ratio (SWR) to ensure it is within acceptable limits. High SWR can damage the radio's final amplifier.
- **Ventilation:** Ensure the radio's cooling fins (on the PRO model) are free from dust and debris to maintain efficient heat dissipation.
- **Storage:** When not in use for extended periods, store the radio in a cool, dry place away from direct sunlight and extreme temperatures.

ADVANCED COOLING STRUCTURE



Image: The advanced cooling structure on the rear of the CB-606 PRO helps dissipate heat during extended operation.

7. TROUBLESHOOTING

If you experience issues with your CB-606 PRO, refer to the following common troubleshooting steps:

- **No Power:** Check power connections, vehicle fuse, and the radio's inline fuse. Ensure the volume/power knob is turned on.
- **No Reception/Transmission:** Verify antenna connection and SWR. Ensure the correct mode (AM/FM) is selected. Check squelch settings (too high squelch can block weak signals).

- **Poor Audio Quality:** Check microphone connection. Adjust squelch and Noise Blanker (NB) settings. Ensure external speaker (if used) is properly connected.
- **Excessive Noise:** Activate Noise Blanker (NB) and adjust squelch (SQ/ASQ) levels. Check for electrical interference from vehicle accessories.
- **Display Issues:** Check backlight brightness settings in the menu.

If problems persist after following these steps, please contact Radioddity customer support.

8. SPECIFICATIONS

Feature	Specification
Brand	Radioddity
Model Number	CB-606 PRO
Number of Channels	40
Frequency Range	26.965-27.405 MHz
Tuner Type	AM/FM
Power Output	4W
Voltage	12V / 24V Compatible
Display	2.2-inch Amber Color Display
Special Features	Automatic Squelch, Digital Display, Long Range, Noise Reduction, Roger Beep
Water Resistance Level	Not Water Resistant

9. WARRANTY AND SUPPORT

The Radioddity CB-606 PRO CB Radio comes with an **18-month warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

For technical support, troubleshooting assistance, or warranty service, please contact Radioddity customer service through their official website or the retailer where the product was purchased.

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?

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Model number, symptoms, what you tried, or the section of the manual you are using.

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