

Manuals.plus /

- › Cobra /
- › Cobra 29 LTD Professional CB Radio Instruction Manual

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# Cobra 29 LTD Professional CB Radio Instruction Manual

Model: Cobra 29 LTD Professional CB Radio

Brand: Cobra

## INTRODUCTION

This manual provides comprehensive instructions for the proper setup, operation, and maintenance of your Cobra 29 LTD Professional CB Radio. Designed for reliable communication, this CB radio offers 40 channels, dual AM/FM modes, and essential features for both professional and recreational use.



Figure 1: Cobra 29 LTD Professional CB Radio with included accessories.

## WHAT'S IN THE BOX

Please verify that all components are present before proceeding with installation:

- Cobra 29 LTD Professional CB Radio Unit
- Standard Microphone with 9-foot coiled cable
- Mounting Bracket and Hardware
- DC Power Cord
- 18-foot Clear CB Antenna Mini-8 Coax Cable with PL-259 Connector



Figure 2: Included 18-foot Clear CB Antenna Mini-8 Coax Cable.

## SETUP

### 1. Mounting the Radio

Select a secure and accessible location for the CB radio. Use the provided mounting bracket and hardware to firmly attach the unit. Ensure adequate ventilation around the radio.

### 2. Antenna Connection

Connect your CB antenna cable to the ANT connector on the rear of the radio. For optimal performance, it is

crucial to perform an SWR (Standing Wave Ratio) calibration after antenna installation. Refer to the 'SWR Calibration' section for detailed instructions.

### 3. Power Connection

Connect the supplied DC power cord to the power input on the rear of the radio. Connect the red wire to the positive (+) terminal of your vehicle's 12V power source and the black wire to the negative (-) or ground terminal. Ensure a secure connection to prevent power fluctuations.

### 4. Microphone Connection

Plug the microphone connector into the microphone jack located on the front panel of the CB radio. Ensure the connection is firm.

## OPERATING INSTRUCTIONS



Figure 3: Front panel controls of the Cobra 29 LTD Professional CB Radio.

### 1. Power On/Off and Volume

Rotate the **VOL/SQL** knob clockwise to turn the radio on and adjust the volume. Continue rotating to increase volume. To turn off, rotate counter-clockwise until it clicks.

### 2. Squelch Control (SQL)

The **SQL** control eliminates background noise when no signal is present. Rotate clockwise until the background noise disappears. For weak signals, rotate counter-clockwise to hear them.

### 3. Channel Selection

Use the **CHANNEL SELECTOR** knob to choose one of the 40 available CB channels. The selected channel number will be displayed on the digital readout.

### 4. AM/FM Mode Selection

The Cobra 29 LTD supports both AM and FM communication. Use the dedicated **AM/FM** switch to toggle between these modes based on your communication needs.

### 5. Instant Channel 9

For immediate access to emergency channel 9, press the **INSTANT CHANNEL 9** button. This feature is designed for quick access to emergency services or roadside assistance.

### 6. RF Gain

The **RF GAIN** control adjusts the receiver sensitivity. Rotate clockwise for maximum sensitivity to receive distant signals. Rotate counter-clockwise to reduce sensitivity and minimize interference from strong local signals.

### 7. Dynamike

The **DYNAMIKE** control adjusts the microphone gain, allowing you to control the microphone's sensitivity for clearer outgoing transmissions.

### 8. Delta Tune

The **DELTA TUNE** control allows for fine-tuning of the receiver frequency to optimize clarity of incoming signals, especially useful for signals that are slightly off-frequency.

### 9. SWR Calibration

To ensure maximum power output and prevent damage to your radio, SWR calibration is essential. Follow these steps:

1. Set the **SWR/CAL** switch to CAL.
2. Press and hold the microphone's transmit button.
3. Adjust the **SWR CAL** knob until the meter needle aligns with the CAL mark.
4. Release the transmit button.
5. Set the **SWR/CAL** switch to SWR.
6. Press and hold the microphone's transmit button again.
7. Read the SWR value on the meter. An SWR reading of 1.5 or lower is ideal. If the reading is high, adjust your antenna length or position and repeat the calibration process.

## MAINTENANCE

### Cleaning

Regularly clean the exterior of the radio with a soft, damp cloth. Avoid using abrasive cleaners or solvents, as they may damage the finish. Keep the microphone and cable free of dirt and debris.

## General Care

Ensure the radio is protected from extreme temperatures, moisture, and direct sunlight. Avoid placing heavy objects on top of the unit. Periodically check all cable connections for tightness and wear.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power	Loose power connection, blown fuse, vehicle power issue.	Check power cord connections. Inspect and replace fuse if necessary. Verify vehicle's 12V power supply.
Poor Reception / Noisy Audio	Antenna issue, high SWR, RF Gain too low, Squelch too high, interference.	Check antenna connection and SWR. Adjust RF Gain and Squelch. Move away from sources of electrical interference.
Cannot Transmit	Microphone not connected, faulty microphone, transmit button stuck.	Ensure microphone is securely connected. Test with another microphone if available. Check transmit button for proper function.
Low Transmit Power	High SWR, faulty antenna, power supply issue.	Perform SWR calibration. Inspect antenna and cable for damage. Verify stable 12V power supply.

## SPECIFICATIONS

- **Number of Channels:** 40 CB Channels
- **Frequency Range:** 26.965 MHz - 27.405 MHz
- **Output Power:** 4 Watts AM/FM
- **Tuner Technology:** Analog
- **Special Features:** Instant Channel 9, Adjustable Receiver, SWR Calibration, Dual-Mode AM/FM Access
- **Included Components:** CB Radio, Microphone, Mounting Bracket, DC Power Cord, 18' Coax Cable
- **Color:** Chrome

## WARRANTY AND SUPPORT

Your Cobra 29 LTD Professional CB Radio is covered by a manufacturer's warranty. For specific warranty terms, registration, or technical support, please refer to the warranty card included with your product or visit the official Cobra website. Keep your proof of purchase for warranty claims.

For additional assistance, you may contact Cobra customer support through their official channels.