

## RoadKing RKCBCCLASSIC

# RoadKing RKCBCCLASSIC 40 Channel Classic CB Radio User Manual

Model: RKCBCCLASSIC | Brand: RoadKing

## 1. INTRODUCTION

The RoadKing RKCBCCLASSIC is a robust 40-channel CB radio designed for reliable communication. This unit features a large digital display, an illuminated SWR/RF meter, and essential controls for optimal performance. This manual provides detailed instructions to ensure proper setup, operation, and maintenance of your CB radio.

## 2. KEY FEATURES

- **40 AM Channels:** Provides access to all standard CB communication channels.
- **Large Digital Display:** Clear and easy-to-read channel indication.
- **Illuminated SWR/RF Meter:** Allows for precise monitoring of antenna system performance and signal strength.
- **ANL Filter (Automatic Noise Limiter):** Reduces vehicle interference for clearer reception.
- **Noise Blanker:** Further reduces pulse-type noise interference.
- **SWR Calibration:** Essential for tuning your antenna system for maximum performance and radio protection.
- **RF Gain Control:** Adjusts receiver sensitivity to optimize signal reception.
- **PA Capability:** Public Address function for external broadcasting.
- **Instant Access to Emergency Channel 9:** Quick access to emergency communication.
- **Front Panel 4-pin Mic Connector:** Convenient microphone connection.

## 3. PACKAGE CONTENTS

Your RoadKing RKCBCCLASSIC package should include the following items:

- RoadKing RKCBCCLASSIC CB Radio Unit
- Dynamic 4-pin Microphone with 9' Cord
- Mounting Bracket and Hardware
- DC Power Cord

- User Manual (this document)

## 4. SETUP & INSTALLATION

### 4.1. Mounting the Radio

Select a secure and accessible location for your CB radio, typically under the dashboard or on the center console. Use the provided mounting bracket and hardware to firmly attach the radio, ensuring it does not obstruct driving or airbag deployment.



Figure 1: Front view of the RoadKing RKCBCCLASSIC CB radio with microphone.

### 4.2. Power Connection

Connect the DC power cord to the radio's power input. The red wire connects to a positive (+) 12V DC source (e.g., vehicle battery or fuse box), and the black wire connects to a negative (-) ground point (e.g., vehicle chassis). Ensure a secure connection to prevent power fluctuations.



Figure 2: Rear view of the CB radio, showing antenna connector and power input.

#### **4.3. Antenna Connection**

Connect your CB antenna cable to the SO-239 connector located on the rear of the radio. For optimal performance,

use a high-quality CB antenna properly installed and tuned for your vehicle.

#### 4.4. Microphone Connection

Plug the 4-pin microphone connector into the corresponding jack on the front panel of the radio. Ensure it clicks securely into place.



Figure 3: Close-up of the dynamic 4-pin microphone with the RoadKing logo.

### 5. OPERATING INSTRUCTIONS

#### 5.1. Power On/Off and Volume

Turn the **VOL/SQL** knob clockwise to power on the radio and adjust the listening volume. Continue turning to increase volume.

#### 5.2. Squelch Control (SQL)

With the radio on, turn the **VOL/SQL** knob further clockwise past the audible static to set the squelch. This eliminates background noise when no signal is present. Adjust it to the point where background static is just silenced.

#### 5.3. 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 large digital display.



Figure 4: Angled view of the CB radio, highlighting the front panel controls and large digital display.

## 5.4. RF Gain Control

The **RF GAIN** knob adjusts the sensitivity of the receiver. Turn it clockwise for maximum sensitivity to receive weaker signals, or counter-clockwise to reduce sensitivity and minimize interference from strong local signals.

## 5.5. ANL (Automatic Noise Limiter) and Noise Blanker (NB)

The **NB/ANL** switch activates the Noise Blanker and Automatic Noise Limiter. These features help reduce various types of electrical interference, such as ignition noise from vehicles. Use them to improve clarity in noisy environments.

## 5.6. SWR Calibration

Proper SWR (Standing Wave Ratio) calibration is crucial for efficient transmission and to prevent damage to your radio. Refer to your antenna's instructions for initial tuning. To calibrate SWR on the radio:

1. Set the **SWR/RF** switch to **CAL**.
2. Press and hold the microphone's PTT (Push-To-Talk) button.
3. Adjust the **SWR CAL** knob until the meter needle aligns with the "CAL" mark.
4. Release the PTT button.
5. Set the **SWR/RF** switch to **SWR**.
6. Press and hold the PTT button again. The meter will now display your SWR reading. An SWR of 1.5:1 or lower is generally good. If it's higher, adjust your antenna.
7. Release the PTT button.

## 5.7. PA (Public Address) Function

To use the PA function, connect an external PA speaker to the PA jack on the rear of the radio. Set the **CB/PA** switch to **PA**. Your voice through the microphone will now be broadcast through the external speaker.

## 5.8. Emergency Channel 9

The **CH9** switch provides instant access to Channel 9, the designated emergency channel for CB radio. Flip this switch to quickly monitor or transmit on Channel 9.

## 6. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the exterior of the radio. Avoid abrasive cleaners or solvents.
- **Connections:** Periodically check all connections (power, antenna, microphone) for tightness and corrosion.
- **Antenna:** Ensure your antenna is in good condition and properly tuned. A damaged or poorly tuned antenna can affect performance and potentially damage the radio.
- **Fuse Replacement:** If the radio does not power on, check the inline fuse on the DC power cord. Replace it with a fuse of the same type and rating if blown.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power	Loose power connection, blown fuse, vehicle power issue.	Check power cord connections. Replace fuse if blown. Verify vehicle's 12V power supply.
No Reception / Poor Reception	Squelch set too high, antenna not connected/damaged, RF gain too low, local interference.	Adjust squelch. Check antenna connection and condition. Increase RF gain. Activate ANL/NB.
Cannot Transmit	Microphone not connected, PTT button faulty, high SWR.	Ensure microphone is securely connected. Test PTT button. Check SWR calibration and adjust antenna if needed.
Excessive Noise	ANL/NB off, strong local interference, vehicle electrical noise.	Activate ANL/NB. Adjust RF gain. Check vehicle's electrical system for noise sources.

## 8. SPECIFICATIONS

**Brand:** RoadKing

**Model:** RKCBCLASSIC

**Number of Channels:** 40 AM

**Frequency Range:** 26.965 MHz - 27.405 MHz

**RF Power Output:** 4 Watts (Maximum FCC Allowable)

**Voltage:** 12 Volts (DC)

**Item Weight:** 5.15 pounds

**Product Dimensions:** 12.75 x 36 x 3.5 inches (Note: The 36" dimension seems unusually large for a CB radio and might refer to packaging or an included accessory's length. Please verify actual unit dimensions.)

**Special Features:** ANL filter, SWR calibration, RF gain control, Instant Access to Emergency Channel 9, Front panel 4-pin mic connector, Large digital display.

**Water Resistance Level:** Water Resistant

## 9. WARRANTY & SUPPORT

For warranty information, technical support, or service inquiries regarding your RoadKing RKCBCLASSIC CB Radio, please refer to the warranty card included with your product or visit the official RoadKing website. Keep your proof of purchase for warranty claims.