

ROADKING



OWNER'S MANUAL — RKCBT



CONTENTS

SAFETY NOTICE	5
EMERGENCY OPERATION	5
UNPACKING	5
DESCRIPTION	6
FEATURES	6
CONTROLS AND FUNCTIONS	7
INSTALLATION	11
RKCBBT INSTALLATION	11
Mobile Antenna	11
Power Cord Connection.....	11
Ground Information	12
MARINE INSTALLATION	12
ASSEMBLING WIRELESS PTT.....	13
USING YOUR RKCBBT	13
BASIC SETUP.....	13
TRANSMITTING.....	14
Using the 4-Pin Microphone.....	14
Setting Up the RK940 Bluetooth Headset	14
Setting Up Wireless PTT.....	15
OPERATING MODES.....	15
CB Mode	16
Weather Mode (WX mode)	18
MEMORY Mode (MEM MODE)	20
MENU Mode	20
OTHER FEATURES	22
EMERGENCY CHANNEL 9/19	22
S/RF/CAL/SWR METER	23
Calibrate Standing Wave Ratio (SWR)	23
TALKBACK.....	23
PUBLIC ADDRESS SPEAKER (OPTIONAL).....	23

MAINTENANCE	24
PREVENTIVE MAINTENANCE	24
TROUBLESHOOTING	25
SERVICING YOUR TRANSCEIVER	26
SPECIFICATIONS.....	26
CHANNEL FREQUENCIES	30
CB.....	30
WEATHER CHANNEL.....	31
RADIO CODE DEFINITIONS	32

ROADKING

RKCBBT

NOTE: Features, specifications, and availability of optional accessories are all subject to change without notice.

SAFETY NOTICE

The antenna used for this radio must be properly installed and maintained and must provide a separation distance of at least 16.9 inches (43 cm) from all persons and must not be collocated or operated in conjunction with any other antenna or transmitter. Never transmit if any person is closer than the specified distance to the antenna.

Note that RoadKing® does not specify or supply any antenna with this transceiver. While a 0 dBi gain antenna is normal for a typical installation, the above limit applies to any antenna with up to 3 dBi gain.

EMERGENCY OPERATION

1. Press **9/19/NORM** or turn **Channel Selector** knob to Channel 9.
2. Press **PTT** and speak clearly.
3. If there is no response, select an active channel and ask that party to relay your emergency broadcast on Channel 9.

NOTE: All channels except Channel 9 may be used for normal communication. The FCC reserves Channel 9 for emergencies involving the immediate safety of individuals or protection of property. Use Channel 9 to render assistance to a motorist.

This is an FCC rule and applies to all CB radio operators.

UNPACKING

Your RKCBBT contains the following:

- RKCBBT CB 2-way mobile radio
- Microphone
- Microphone Hanger
- Wireless PTT
- RK940 BLUETOOTH® Headset and accessories

- Owner's Manual and Quick Start Guide
- USB to MicroUSB charging cables (2)
- Mounting Bracket Kit
- DC Power Cord
- Part 95 Subpart D (FCC Rules)

If any items are missing or damaged, contact your place of purchase immediately.

DESCRIPTION

Your RoadKing RKCBBT represents the highest quality communications device designed for use in the Citizens Band Radio Service. It will operate on any of the 40 AM frequencies authorized by the Federal Communications Commission (FCC).



The Citizens Band Radio Service is under the jurisdiction of the Federal Communications Commission (FCC). Any adjustments or alterations which would alter the performance of the transceiver's original FCC type acceptance, or which would change the frequency determining method, are strictly prohibited.

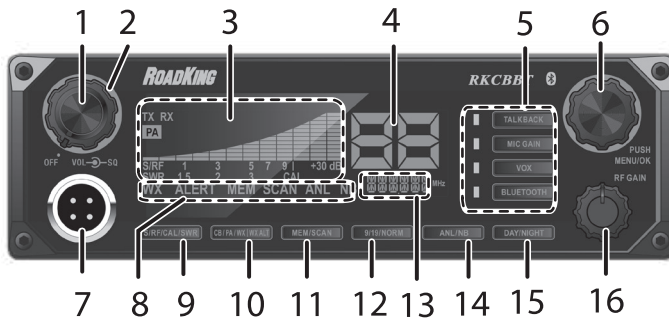
Replacement or substitution of crystal, transistors, ICs, regulator diodes, or any other part of a unique nature, with parts other than those recommend by RoadKing, may cause violations of the technical regulations in Part 95 of the FCC Rules or in violation of type acceptance requirements in Part 2 of the rules.

FEATURES

- LCD Display
- Backlight Color Select (7 colors)
- Backlight Dimmer Select (15 levels)
- LCD Contrast Select (16 levels)
- DAY/NIGHT Switching
- Frequency Display
- Instant Channel9/19 Recall

- Memory (40 each channel)
- All Channel Scan
- Memory Channel Scan
- PA
- ANL-NP
- Key Beep
- Meter Select
- Talkback
- MC Gain Control
- Weather Channel Receive (WX CH)
- Weather Alert (WA)
- Weather Channel Scan
- Bluetooth Headset Connectability
- VOX (Bluetooth headset only)
- Wireless PTT Connectability
- Variable Volume Control
- Variable Squelch Control
- Variable RF Gain Control

CONTROLS AND FUNCTIONS



1. **Volume Control** knob with **Power On/Off**. Turn the knob clockwise until it clicks to turn power on. Once power is on, continue turning the knob clockwise to increase volume. Turn the knob counterclockwise to decrease volume. Turn the knob all the way counterclockwise until it clicks to turn power off.
2. **SQUELCH** knob: Reduces background noise when there is no incoming signal. Turn the squelch knob counterclockwise to open squelch and clockwise to close it.

3. S/RF/CAL/SWR Meter: Displays Transmit/Receive signal strength, RF Power, and SWR usage. Calibrate SWR transmission power usage.
4. Channel Number display.
5. Operation keys and associated LEDs:
 - **Talkback:** Talkback lets you monitor yourself when transmitting. Press **Talkback** to activate the function (LED = on). With Talkback active, press **PTT** and adjust the volume with the **Channel Selector/MENU/OK** knob. (Levels 00 - 15, LED = RED)
 - **MIC Gain:** Press MIC Gain key to turn on MIC Gain and adjust microphone sensitivity for transmission. Delivers up to 100% modulation. With MIC Gain active, press **PTT** and adjust the gain levels with the **Channel Selector/MENU/OK** knob. There are four levels [Low Gain/00 - High Gain/04 (LED = RED)]. If no PTT or Wireless PTT action after 5 seconds, MIC Gain turns off. Press MIC Gain switch again to turn off.
NOTE: If Talkback is on when MIC Gain is also on, Talkback volume increases.
 - **VOX:** Press to turn VOX on and off. Press and hold to enter and exit the VOX menu (LED = RED).
 - **BLUETOOTH:** Press for 2 seconds to turn Bluetooth on and off. Press for 4 seconds to enter Pairing mode. (LED = RED, BLUE)
6. **Channel Selector/MENU/OK** Press the inner **MENU/OK** key to select a menu option or other selection. Turn the outer **Channel Selector** knob to:
 - Select channels (Clockwise to increase from 1 - 40; counterclockwise to decrease from 40 - 1)
 - Select menu modes
 - Change scan direction (up or down)
 - Resume scanning from Scan Stay
 - Control Talkback volume
 - Control Mic Gain level
 - Control Calibration volume

NOTE: All channels except Channel 9 may be used for normal communication. The FCC reserves Channel 9 for emergencies involving the immediate safety of individuals or protection of

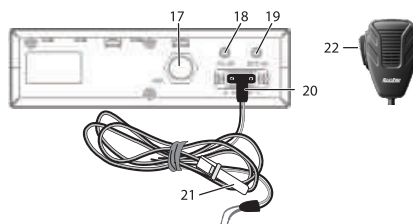
property. Use Channel 9 to render assistance to a motorist.

This is an FCC rule and applies to all CB operators.

7. Microphone socket.
8. Indicators turn on when the function is turned on.
9. **S/RF/CAL/SWR:** Push to to check RF signal strength, calibration, and SWR reading.
10. **CB/PA/WX|WXALT:** Press to select **CB** (Citizens Band), **PA** (Public Address), or **WX** (Weather). Press and hold to turn WX Alert on and off.

NOTE: Do not use the PA function unless an external speaker is connected.

11. **MEM/SCAN:** Press to start or stop scanning modes [All Channel Scan (see page 16) and Memory Scan (see page 20)]. Press and hold to set or clear channel memory while in Memory mode.
12. **9/19/NORM:** Press to switch between emergency channel 9, channel 19, and standard CB channels.
13. Frequency Display: Displays the MHz of the selected channel. Also displays menu options.
14. **ANL/NB:** Toggles between **ANL** (Automatic Noise Limiter) feature and **NB** (Noise Blanker) feature. **ANL** reduces external noise and **NB** reduces interference from vehicle ignition systems. Each press of the switch cycles through the ON/OFF states as follows: ANL OFF/NB OFF → ANL ON/NB OFF → ANL OFF/NB ON → ANL ON/NB ON.
15. **DAY/NIGHT:** Toggles between DAY and NIGHT backlight settings. DAY or NIGHT displays on the LCD freefrequency indicator.
16. **RF Gain** knob: Improves reception in strong signal areas. Turn the RF Gain knob counterclockwise to adjust RF Gain down; turn it clockwise to turn up RF Gain.



- 17. Antenna socket: Connects antenna to the unit.
- 18. **PA SP:** Connects optional external 8-ohm, 4-watt speaker for use as a public address system.

NOTE: To prevent acoustic feedback, separate the microphone from the speaker when operating the PA at high output levels.

- 19. **EXT. SP:** Connects an 8-ohm 4-watt speaker to remotely monitor the receiver.

NOTE: When the external speaker is plugged in, the internal speaker is off.

- 20. **POWER:** Connects DC power to transceiver.
- 21. Fuse.
- 22. **PTT:** Push-to-Talk.



- 23. Wireless PTT Status LED. Solid Red indicates power available and transmitting. Flashing Red indicated low power when transmission attempted.
- 24. **PTT:** Push-to-Talk.
- 25. MicroUSB cover. Loosen cover to reveal microUSB charging port.

INSTALLATION

NOTE: The wireless Bluetooth headset and the wireless PTT do not require installation. Refer to the Transmitting section, page 14, for pairing and usage information.

RKCBBT INSTALLATION

NOTE: Plan the location of the transceiver and microphone bracket before beginning installation.

1. Select a location that is convenient for operating the radio but does not interfere with the driver or passenger.
2. Install bracket with self-tapping screws provided.
3. Connect power cords (see page 10).
4. Attach the microphone bracket to side of the radio.
5. Attach radio to bracket.

Mobile Antenna

Because the maximum power output of the transmitter is limited by the FCC, the quality of your antenna is very important. To achieve the maximum transmission distance, RoadKing strongly recommends that you install only a high quality antenna. You have just purchased a superior transceiver - don't diminish its performance by installing an inferior antenna.

Only a properly matched antenna system will allow maximum power transfer from the 50 ohm transmission line to the radiating element. Your RoadKing dealer is qualified to help you select the proper antenna for your requirements. A whip style antenna may be used for automobile installation.

A short 'loaded' whip antenna is easier to install on an automobile, but its efficiency is less than that of a full quarter-wave whip antenna.

Power Cord Connection

RoadKing recommends connecting the power lead to the Ignition Switch Accessory Terminal. This way, the transceiver is automatically turned off when the ignition switch is turned off.

As an alternative, the power cord may be connected to an available terminal on the fuse block or to a point in the wiring harness. However, caution must be taken to prevent a short circuit. If in doubt, contact your vehicle dealer for information.

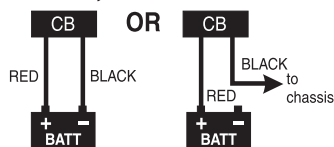
Ground Information

NOTE: This transceiver may be installed and used in any 12-volt DC negative ground system vehicle.

Negative Ground System

With a negative ground system, the negative (-) battery terminal is usually connected to the vehicle motor block.

Connect the red DC power cord from the transceiver to the positive (+) battery terminal or other convenient point. Then connect the black power cord to the vehicle chassis or negative (-) battery terminal.



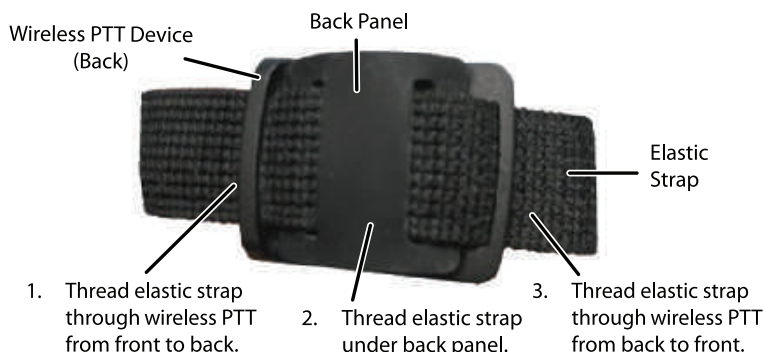
MARINE INSTALLATION

Consult your dealer for information regarding marine installation. It is important to adequately ground the system and to prevent electrolysis between the fittings in the hull and the water.

ASSEMBLING WIRELESS PTT

The wireless PTT device coordinates with the Bluetooth headset to provide a simple method to initiate talking. It wraps around the gear shift with an elastic hook and loop tape closure and has a PTT key in the center of the front face that can be pressed to talk (see page 10).

1. Holding the wireless PTT with the back side facing you, thread the elastic strap through the wireless PTT from the front to the back.
2. Thread the elastic strap underneath the center of the back panel
3. Thread the elastic strap through the wireless PTT from back to front.
4. Finally, wrap the wireless PTT around the gear shift head and fasten.



There is no ON/OFF key or switch for the wireless PTT key. It is always ON. When the battery level drops, the status LED flashes when the PTT key is pressed.

NOTE: When fully charged, the PTT battery lasts a year.

USING YOUR RKCBBT

NOTE: Be sure that the power source, antenna, and microphone are properly connected before proceeding.

BASIC SETUP

1. Turn unit on. Set volume to a comfortable level.
2. Select channel.
3. Set noise limitations as desired (**ANL/NB**).

4. Adjust Squelch.
 - Turn **SQUELCH** fully clockwise so only strong signals can get through.
 - Turn **SQUELCH** fully counterclockwise until you hear a hiss. Everything gets through - noise, weak signals, and strong signals.
 - Turn **SQUELCH** back clockwise until the hiss stops. Only clearer signals get through.

NOTE: Set SQUELCH only when the radio is not receiving a strong signal.
5. Turn **RF Gain** to set RF gain sensitivity.
6. Press **MIC Gain** to toggle microphone sensitivity between High and Low. (LED on = High; LED off = Low)
7. Set Backlight color (see page 21).
8. Set LCD Contrast (see page 21).
9. Set Brightness (see page 22).

TRANSMITTING

Use the 4-pin microphone, the Bluetooth headset, or the wireless PTT paired with the Bluetooth headset to communicate with other parties.

Using the 4-Pin Microphone

Press **PTT** to transmit. Release *PTT* to listen to responses.

Setting Up the RK940 Bluetooth Headset

NOTE: This RKCBBT Owner's Manual provides basic installation, pairing, and usage procedures. Refer to the RKING940 Owner's Guide for Bluetooth headset details.

1. Charge the Bluetooth headset:
 - Connect the charger to the correct outlet. The status LED turns RED.
 - When fully charged (up to 3 hours), the status LED turns BLUE.
 - Disconnect the headset from the charger and the charger from the outlet. The headset is now ready to use.

2. Pair to Bluetooth-enabled device.

NOTE: When pairing, stay within range of the Bluetooth-enabled device you are pairing to (no more than 3 feet away).

- Verify that the headset is turned off.
- Hold the **ON/OFF** key for approximately 5 seconds. Power On sounds and the status light flashes between RED and BLUE.
- Find the Bluetooth settings and search for your headset on the device list. Select *RKING940*.
- If required, enter PIN code 0000 and confirm.
- If pairing is successful, the voice prompt “Connected” sounds and the status LED turns BLUE for 1 second.

Setting Up Wireless PTT

The Wireless PTT coordinates with the Bluetooth headset to provide a simple method is a wireless device that wraps around a finger (usually the index finger) with a hook and loop tape closure. It has a PTT key in the center of the front face that can be pressed to talk (see page 10).

There is no ON/OFF key or switch for the wireless PTT key. It is always ON until the battery level drops. When it drops, the status LED flashes when the PTT key is pressed.

Pairing Wireless PTT to Bluetooth Headset

1. Power off the RKCBBT unit, then power it back on. If Bluetooth is on, turn it off.
2. Press and hold BLUETOOTH for 4 seconds. The CB enters pairing mode and the blue and red Bluetooth LEDs blink.
3. Place the headset in pairing mode. See “Pair to Bluetooth-Enabled Device” operation in previous section. When paired to the headset, the CB Bluetooth LED is solid Red.
4. Press and hold the wireless PTT’s PTT key. When pairing is complete, the Bluetooth LED is solid blue.

OPERATING MODES

There are three operating modes:

- CB (including VOX mode)

- Weather
- Menu

CB Mode

CB mode lets you transmit and receive on up to 40 channels. You can scan channels (in CB mode and Memory mode) as well as use VOX to monitor and adjust transmission quality.

Scan Mode

There are three scanning modes in the RKCBT:

- All Channel Scan. The radio scans channels until it receives a signal. It will move to the next channel if no signal is received after 3 seconds.
- Memory (MEM) Mode. Save channels to memory; only those channels can be selected by the Channel Selector.
- Memory Channel Scan. Only channels saved to memory are scanned.

Press **MEM/SCAN** to scan the modes as follows: CB Mode → MEM Tune Mode → All Channel Scan Mode → Memory Channel Scan Mode → CB Mode.

All Channel Scan

1. In CB mode, press **MEM/SCAN** once. *SCAN* displays.
2. The radio begins scanning upward through the channels.
 - To skip the channel the radio has stopped on, turn **Channel Selector** clockwise to move to the next channel or counter-clockwise to move to the previous channel. The radio continues scanning in the selected direction.
 - To change to Memory Channel Scan mode, press **MEM/SCAN** while in All Channel Scan mode (see page 20).
3. To exit All Channel Scan mode, press **PTT, 9/19/NORM, WEATHER** or **CB/PA**.

MEM Tune Scan

1. In CB mode, press **MEM/SCAN** twice. *MEM* displays.
2. Use the SELECTOR knob to scroll through channels saved to memory.

NOTE: You can clear channels saved to memory but you cannot add any new channels to memory.

3. To exit MEM Tune Scan mode, press **PTT, 9/19/NORM, WEATHER,** or **CB/PA**

MEM Scan

1. In CB mode, press **MEM/SCAN** three times. *MEM* and *SCAN* display and the radio begins scanning upward through the channels saved to memory.
2. If the radio detects a transmission on one of the channels saved to memory, it will stop on that channel. To skip the channel the radio has stopped on, turn **Channel Selector** clockwise to move to the next channel or counter-clockwise to move to the previous channel. The radio continues scanning in the selected direction.
3. To cancel MEM SCAN mode, press **MEM SCAN** again or press **PTT, Wireless PTT, 9/19/NORM, CB/PA/WX,** or turn VOX on.

NOTE: You can clear channels saved to memory but you cannot add any new channels to memory.

VOX

In CB mode, press and hold VOX key to enter the VOX menu.

- VOX Sensitivity
- Anti VOX level
- VOX Delay Time

NOTE: The VOX Sensitivity menu opens automatically.

VOX Sensitivity

This menu coordinates VOX microphone sensitivity for VOX transmission. It senses audio and switches to transmit mode.

1. Press **VOX**; *V-SENS* displays in the Frequency Indicator and the current level displays in the Channel Indicator.
2. Rotate the Selector knob to cycle through the Vox Sensitivity levels (Level 1 = High Sensitivity through Level 9 = Low Sensitivity).

3. Press **MENU/OK** or **VOX** to save the selected level to Memory and display the next menu item.

Anti-VOX Level

If you receive background audio that is loud enough, it may activate the VOX and trigger transmission. Anti-VOX decreases VOX sensitivity.

1. Press **VOX**; *V-ANTI* displays in the Frequency Indicator and the current level displays in the Channel Indicator.
2. Rotate the Selector knob to cycle through the Anti-VOX levels [Levels are Off and 01(high) through 20 (Low)].
3. Press **MENU/OK** or **VOX** to save the selected level to Memory and display the next menu item.

VOX Delay Time

VOX Delay Time is the time between the end of microphone input (speaking into the microphone) and the end of VOX transmission.

1. Press **VOX**; *V-DELY* displays in the Frequency Indicator and the current level displays in the Channel Indicator.
2. Rotate the Selector knob to cycle through the VOX Delay Time levels:

DISPLAY	DELAY TIME	DISPLAY	DELAY TIME
t1	0.2 sec	t6	1.2 sec
t2	0.4 sec	t7	1.5 sec
t3	0.6 sec	t8	2.0 sec
t4	0.8 sec	t9	3.0 sec
t5	1.0 sec		

3. Press **MENU/OK** or **VOX** to save the selected level to Memory and return to CB mode.

Weather Mode (WX mode)

Your radio combines a CB radio with a Weather radio and a Weather Alert system. The Weather Alert system sounds a seven-second signal in the event of severe weather when you are in CB mode. The Weather radio

continually broadcasts weather conditions when you are in Weather mode.

1. Press **CB/PA/WX|WXALT** until WX icon displays.
2. Rotate the **Channel Selector** knob to cycle through the 7 weather channels. Press the knob to select that WX channel. The channel number displays in the channel number area (1 - 7) and that frequency displays in the frequency block.

NOTE: When in WX mode, AN/NB, Talkback, MIC GAIN, SRF/CAL/SWR, and VOX options are not accepted. An error tone sounds if attempted.

NOTE: You cannot change ANL or NB settings while in WX mode. The radio will sound an alert tone.

Set Weather Scan Mode

Weather Scan mode allows the radio to move to the next weather channel if no signal is detected after 3 seconds. Set Weather Scan mode to ON or OFF through the menus.

1. Press **MENU/OK** to activate the menus. *D-COLOR* displays.
2. Turn the **Channel Selector** knob to cycle through the menu options until *WXSCAN* displays.
3. Press **MENU/OK**. *ON* displays.
4. Press **MENU/OK** to set Weather Scan mode to ON or turn the selection knob until *OFF* displays and then press **MENU/OK** to set it. *WXSCAN* displays again.

NOTE: If Weather Scan is ON when you turn on radio, it remains ON.

Left at these setting (WX mode, WX Scan), you will hear only weather broadcasts and Weather Alert signals. To use your CB radio normally while monitoring weather alerts, press **WEATHER** again.

Set Weather Alert Mode

Weather Alert mode only operates when you are in CB and PA modes; it does not operate in Weather mode. In CB and PA modes, the radio sounds an alert tone when it detects a 1050Hz tone on a weather channel.

Press and hold **CB/PA/WX|WXALT** for one second to turn Weather Alert on. The WX LED turns on.

MEMORY Mode (MEM MODE)

You can select channels to store into memory and then scan only those channels. You can also clear channels from memory.

NOTE: There must be channels saved into memory in order for MEM SCAN to work.

Save Channels Into Memory

1. Tune to a channel in CB mode.
2. Press and hold **MEM/SCAN** until *SAVE* appears (about 2 seconds).
3. Release **MEM/SCAN**.
4. The radio stays on the saved channel.

Scan Channels in Memory

1. From All Channel Scan mode (see page 16), press **MEM/SCAN** until *MEM SCAN* displays; the radio scans memory channels only.
2. Press **MEM/SCAN** again to return to Memory mode or the last channel scanned.

Listen to Channels in Memory

1. Press **MEM/SCAN** until *MEM* displays.
2. Turn the **Channel Selector** knob and only saved channels will be heard.

Clear Channels from Memory

1. In Memory mode, select a channel.
2. Press and hold **MEM/SCAN** until *CLEAR* displays.
3. Release **MEM/SCAN**. The radio plays the next channel in memory.

MENU Mode

Access menus by pressing **MENU/OK**. The first menu, *COLOR*, displays. Turn the Channel Selector knob to cycle through the other menus:

- LCD COLOR (DAY) - Backlight color
- LCD CONT (DAY)- LCD Contrast
- LCD BRIGHT (DAY) - Brightness
- LCD COLOR (NIGHT) - Backlight color
- LCD CONT (NIGHT)- LCD Contrast
- LCD BRIGHT (NIGHT) - Brightness
- WXSCAN - Weather Scan mode (OFF/ON)
- BEEP - KEYBEEP (ON/OFF)

Select Backlight Color

1. Press **MENU/OK** to activate the menus. Continue pressing **MENU/OK** until *D-COLO* (for day) or *N-COLO* (for night) displays.
2. Turn **Channel Selector** to cycle through the seven colors:

NUMBER	COLOR
1	Blue
2	Green
3	Cyan
4	Red
5	Magenta
6	Yellow
7	White

NOTE: As you scroll through the available backlight colors, the LCD changes to that color.

3. Press **MENU/OK** to select the color. The next menu item displays.
4. Repeat these procedures to set the NIGHT backlight color.

Set LCD Contrast

1. Press **MENU/OK** until *D-CONT* (Day-Contrast) or *N-CONT* (Night-Contrast) displays. The current contrast level displays on the Channel Indicator (0 - 15).
2. Turn **Channel Selector** to cycle through the contrast options. The LCD reflects the contrast options as you cycle through them.
3. Press **MENU/OK**; the radio stores the brightness level in memory and the next menu option displays.

Set Brightness

1. Press **MENU/OK** until *D-BRIG* (Day-Brightness) or *N-BRIG* (Night-Brightness) displays. The current brightness level displays on the Channel Indicator (1 - 15).
2. Turn **Channel Selector** to cycle through the brightness options. The LCD reflects the brightness options as you cycle through them.
3. Press **MENU/OK**; the radio stores the brightness level in memory and the next menu option displays.

Set WX Scan

1. Press **MENU/OK** several times until WXSCAN displays on the Frequency Indicator and the current status (ON, OFF) displays on the Channel Indicator.
2. Scanning WX channels begins when WXSCAN is turned on, or ends when WXSCAN is turned off.

Set Beep Tone

1. Press **MENU/OK** several times until BEEP displays on the Frequency Indicator and the current status (ON, OFF) displays on the Channel Indicator.
2. Turn **Channel Selector** to turn Beep Tone on and off.

NOTE: WX Alert tone sounds even if Beep tone is set to OFF.

OTHER FEATURES

EMERGENCY CHANNEL 9/19

Press the **9/19/NORM** key to immediately receive emergency channels 9 and 19 and then return to the prior CB channel. Each press of **9/19/NORM** changes the CB channel as follows: Normal mode CB channel → Emergency CH9 (*CH9* displays) → Emergency CH19 (*CH19* displays) → Normal Mode CB channel (previous CB channel number displays).

Press **CB/PA/WX** or **MEM/SCAN**, or turn the channel selector knob, to cancel emergency channel 9/19 mode.

S/RF/CAL/SWR METER

This meter measures the antenna's Standing Wave Ratio (SWR) to check the antenna system or to indicate that the antenna needs adjusting to the proper length.

Press **S/RF/CAL/SWR** to cycle through meter functions or transmitting and receiving (incoming and outgoing signal strength and wattage). The 12-column LCD display (refer to item number 3 on page 7) displays this data. Press **S/RF/CAL/SWR** to cycle through the functions as follows: S/RF Meter → CAL Meter → SWR Meter.

Press and hold **PTT** on the microphone to see the RF output power levels. Release **PTT** to see incoming signal strength.

Calibrate Standing Wave Ratio (SWR)

Check and calibrate the SWR to ensure that you are using power effectively.

1. Press **S/RF/CAL/SWR** until *CAL* appears.
2. Press and hold **PTT**/wireless PTT. Turn the volume knob until the bar graph and the | indicator are in the same position.
3. Keeping the PTT and wireless PTT pressed, press the **S/RF/CAL/SWR** key again until the SWR icon displays.
4. Note the SWR reading and release **PTT**. If the reading is >1.5, follow your antenna's instructions to adjust the antenna length. Then, repeat this procedure.

TALKBACK

Turn Talkback ON to hear your own voice through the radio's speaker when transmitting. If Talkback is on and PTT is not pressed in 5 seconds, PTT turns off. Rotate the Volume knob while PTT is active to adjust Talkback volume.

PUBLIC ADDRESS SPEAKER (OPTIONAL)

Your radio is capable of connecting the PA.SP jack on the back panel (labeled PS.SP) to an optional external 8-ohm, 4-watt speaker. Internal and external speakers are mute while the PA is active.

NOTE: The only switches that are operational when PA is on are PTT, Wireless PTT, CH Select, CB/PA/WX, DAY/NIGHT, 9/19/NORM, ANL/NB, and Bluetooth.

1. Press **CB/PA/WX** key until PA displays.
2. Press **PTT** on the microphone, the headset microphone, or the wireless PTT switch to transmit through the PA speaker. PA displays on the channel indicator as well as the PA icon.

MAINTENANCE

The RKCBBT is designed to give you years of trouble-free service. There are no user-serviceable parts inside. Except for the fuse in the DC power cord, no maintenance is required.

To replace a blown fuse:

1. Press ends of the fuse holder together. Twist to open. Carefully separate the two pieces.
2. Remove the fuse and inspect. If blown, replace with the same type fuse.

NOTE: Use only the fuse specified for your RKCBBT. Failure to do so may void the warranty.

PREVENTIVE MAINTENANCE

Every six months:

1. Check the SWR.
2. Be sure all electrical connections are tight.
3. Inspect antenna coaxial cable for wear or breaks in shielding.
4. Be sure all screws and mounting hardware are tight.

TROUBLESHOOTING

In the event of system malfunction, perform the following procedures:

Problem	Suggestion
Unit does not power up	Check power cord connections. Check fuse. Check vehicle electrical system.
No reception	Check microphone connection. Set CB/PA to CB . Check VOLUME and SQUELCH Check antenna. Check antenna connection. Adjust RF Gain .
Poor Reception	Check VOLUME and SQUELCH Be sure antenna SWR is normal. Adjust RF Gain .
No Transmission	Set CB/PA switch to CB . Check microphone connection. Adjust MIC Gain .
Low Transmission	Adjust MIC Gain .
Using MEM/SCAN does not access channels in memory	Verify that there are channels saved into memory.
Unit does not work as well as previously.	Turn the power off then back on. The channels will reset.
Battery power check returned <i>FAILLO</i> or <i>FAILHI</i> .	Make sure your power wires have a good connection. Check your battery charge; it needs to be fully charged. Lower voltage will cause a failure. Check your alternator.
Antenna check returned <i>FAIL</i> .	Make sure your antenna ground is good. Check for damage to the antenna. Check the SWRs at a CB shop. High SWRs will damage the radio.
RF power diagnosis check returned <i>FAIL</i> .	Make sure your antenna ground is good. Check for damage to your antenna. Check the antenna connection on the back of the radio. Be sure it is tight.

If you do not get satisfactory results after performing the above checks, call the RoadKing Customer Service Center at 1-866-622-7979, 8:00 a.m. to 4:00 p.m. EST, Monday through Friday.

SERVICING YOUR TRANSCEIVER

It is the user's responsibility to see that this radio is operating at all times in accordance with the FCC Citizens Radio Service regulations. We highly recommend that you consult a qualified radio/telephone technician for servicing and aligning this CB radio product.

NOTE: When ordering parts, be sure to specify the correct model number and serial number of the unit.

SPECIFICATIONS

GENERAL

Channel:	40
Frequency Range:	26.965 - 27.405 MHz
Frequency Control:	PLL Synthesizer
Antenna Impedance:	50 ohms
Power Input:	13.8VDC
Current Drain:	
TX:	AM Full Modulation: 2.2A (max)
RX:	At no signal: 650mA
Operating Temperature:	-22°F to 140°F (-30°C to 60°C)
Accessories:	DC Power Cord USB to MicroUSB charging cord (2) Microphone Microphone Hanger Bluetooth Headset accessories Mounting Bracket Owner's Manual Part 95 Subpart D (FCC Rules)
Size (W x D x H):	7.25 in. x 7.5 in. x 2.25 in. (without knobs and jacks) (184.149 mm x 190.50 mm x 57.15 mm)
Weight:	2.2 Pounds
TRANSMITTER	
Output Power:	4 watts
Emission Type:	6A3
Hum and Noise:	Better than 40 dB
Frequency Tolerance:	±0.002%

Modulation Percentage (Peak):	100%
Spurious Rejection:	-70 dB
Output Impedance:	50 ohm, unbalanced

RECEIVER

Sensitivity at 10 dB S+N/N:	0.5 μ V
Sensitivity at 500 mW Audio Output:	0.5 μ V
Squelch Threshold:	0.5 μ V
Antenna Impedance:	50 ohms
Squelch Tight:	1000 μ V
Signal Meter S-9:	100 μ V
Audio Output Power (max.):	5 watts
Audio Output (10% Dist.):	4 watts
Adjacent Channel Rejection:	55dB
Image Rejection:	65dB
Internal Speaker Impedance:	16 ohms
External Speaker Impedance:	8 ohms

PUBLIC ADDRESS

Output Power at 10% Distortion:	4 watts
---------------------------------	---------

NOTE: Specifications shown are typical and subject to change without notice.

FCC PART 15 & IC COMPLIANCE

HEADSET

Model: RKING940

IC: 9025A-RKING940

FCC PART 15 COMPLIANCE

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC 20 CM STATEMENT

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

IC COMPLIANCE

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- 1) L'appareil ne doit pas produire de brouillage;
- 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS-102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

Le dispositif rencontre l'exemption des limites courantes d'évaluation dans la section 2.5 de RSS 102 et la conformité à l'exposition de RSS-102 rf, utilisateurs peut obtenir l'information canadienne sur l'exposition et la conformité de rf.

IC 20CM STATEMENT

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Cet émetteur ne doit pas être Co-placé ou ne fonctionnant en même temps qu'aucune autre antenne ou émetteur. Cet équipement devrait être installé et actionné avec une distance minimum de 20 centimètres entre le radiateur et votre corps.

CHANNEL FREQUENCIES

CB

CH NO	FREQ (MHZ)	AM RX	AM TX
1	26.965	O	O
2	26.975	O	O
3	26.985	O	O
4	27.005	O	O
5	27.015	O	O
6	27.025	O	O
7	27.035	O	O
8	27.055	O	O
9	27.065	O	O
10	27.075	O	O
11	27.085	O	O
12	27.105	O	O
13	27.115	O	O
14	27.125	O	O
15	27.135	O	O
16	27.155	O	O
17	27.165	O	O
18	27.175	O	O
19	27.185	O	O
20	27.205	O	O
21	27.215	O	O
22	27.225	O	O
23	27.255	O	O
24	27.235	O	O
25	27.245	O	O
26	27.265	O	O

CH NO	FREQ (MHZ)	AM RX	AM TX
27	27.275	O	O
28	27.285	O	O
29	27.295	O	O
30	27.305	O	O
31	27.315	O	O
32	27.325	O	O
33	27.335	O	O
34	27.345	O	O
35	27.355	O	O
36	27.365	O	O
37	27.375	O	O
38	27.385	O	O
39	27.395	O	O
40	27.405	O	O

WEATHER CHANNEL

CH NO	FREQ (MHZ)	FM RX	AM TX
WX01	162.550	O	---
WX02	162.400	O	---
WX03	162.475	O	---
WX04	162.425	O	---
WX05	162.450	O	---
WX06	162.500	O	---
WX07	162.525	O	---
WX08	161.650	---	---
WX09	161.775	---	---
WX10	163.275	---	---

RADIO CODE DEFINITIONS

The following list contains common "10-Codes" used by CB radio operators for faster communication and better understanding.

Code	Meaning	Code	Meaning
10-1	Received poorly	10-34	Trouble at this station
10-2	Receiving well	10-35	Confidential information
10-3	Stop transmitting	10-36	Correct time is
10-4	OK, message received	10-37	Wrecker needed at
10-5	Relay message	10-38	Ambulance needed at
10-6	Busy, stand by	10-39	Your message is delivered
10-7	Out of service, leaving air	10-41	Please turn to channel
10-8	In service, subject to call	10-42	Traffic accident at
10-9	Repeat message	10-43	Traffic tie up at
10-10	Transmission completed, standing by	10-44	I have a message for you
10-11	Talking too rapidly	10-45	All units within range please report
10-12	Visitors present	10-50	Break channel
10-13	Advise Weather/ Road conditions	10-60	What is next message number
10-16	Make pickup at	10-62	Unable to copy, use phone
10-17	Urgent business	10-63	Net directed to
10-18	Anything for us?	10-64	Net clear
10-19	Nothing for you, return to base	10-65	Awaiting your next message/ assignment
10-20	My location is	10-67	All units comply
10-21	Call by telephone	10-70	Fire at
10-22	Report in person to	10-71	Proceed with transmission in sequence
10-23	Stand by	10-77	Negative contact
10-24	Completed last assignment	10-81	Reserve hotel room for
10-25	Can you contact	10-82	Reserve room for
10-26	Disregard last information	10-84	My telephone number is

Code	Meaning	Code	Meaning
10-27	I am moving to channel	10-85	My address is
10-28	Identify your station	10-91	Talk closer to microphone
10-29	Time is up for contact	10-93	Check my frequency on this channel
10-30	Does not conform to FCC rules	10-94	Please give me a long count
10-32	I will give you a radio check	10-99	Mission completed, all units secure
10-33	EMERGENCY TRAFFIC	10-200	Police needed at

SAVE YOUR RECEIPT

Your new purchase is covered by the RoadKing One-Year Limited Warranty.

Visit www.roadprobrands.com for warranty details

RoadKing® is a registered trademark of DAS Brands, LLC. All other trademarks, registered trademarks, copyrights and logos are the property of their respective owners.

WARNING: This product cab expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects and/or other reproductive harm. For more information go to **www.P65Warnings.ca.gov**.

© 2020 DAS Companies, Inc.
Distributed by RoadPro
48 Industrial Road
Elizabethtown, PA 17022
Made in Vietnam





