The Citizens Band lies between the shortwave broadcast and 10-meter Amateur radio bands, and was established by law in 1949. The Class D two-way communications service was opened in 1959. (CB also includes a Class A citizens band and Class C remote control frequencies.)

FCC Regulations
FCC regulations permit only “transmissions” (one party to another) rather than “broadcasts” (to a wide audience). Thus, advertising is not allowed on CB Channels because that is “broadcasting.”

FCC Warnings
All transmitter adjustments other than those supplied by the manufacturer as front panel operating controls, must be made by, or under the supervision of, the holder of an FCC-issued general Radio-Telephone Operator’s License. Replacement or substitution of transistors, regular diodes or other parts of a unique nature, with parts other than those recommended by Cobra, may cause violation of the technical regulations of Part 95 of the FCC Rules, or violation of Type Acceptance requirements of Part 2 of the Rules. You should read and understand Part 95 (included with this unit) of the FCC Rules and Regulations, before operating your Cobra radio, even though the FCC no longer requires you to obtain an operator’s license.

What’s Included with Your 29 LTD BT
1. CB transceiver
2. Microphone with Bluetooth® Button
3. Transceiver bracket
4. Microphone bracket
5. Operating manual
6. DC power cord (not shown)
7. FCC rules (not shown)

The Citizens Band lies between the shortwave broadcast and 10-meter Amateur radio bands, and was established by law in 1949. The Class D two-way communications service was opened in 1959. (CB also includes a Class A citizens band and Class C remote control frequencies.)

FCC Regulations
FCC regulations permit only “transmissions” (one party to another) rather than “broadcasts” (to a wide audience). Thus, advertising is not allowed on CB Channels because that is “broadcasting.”

FCC Warnings
All transmitter adjustments other than those supplied by the manufacturer as front panel operating controls, must be made by, or under the supervision of, the holder of an FCC-issued general Radio-Telephone Operator’s License. Replacement or substitution of transistors, regular diodes or other parts of a unique nature, with parts other than those recommended by Cobra, may cause violation of the technical regulations of Part 95 of the FCC Rules, or violation of Type Acceptance requirements of Part 2 of the Rules. You should read and understand Part 95 (included with this unit) of the FCC Rules and Regulations, before operating your Cobra radio, even though the FCC no longer requires you to obtain an operator’s license.

What’s Included with Your 29 LTD BT
1. CB transceiver
2. Microphone with Bluetooth® Button
3. Transceiver bracket
4. Microphone bracket
5. Operating manual
6. DC power cord (not shown)
7. FCC rules (not shown)
Thank you for purchasing the Cobra 29 LTD BT CB Radio. Properly used, this Cobra product will give you many years of reliable service.

Customer Support
Should you encounter any problems with the product or not understand its many features, please refer to this owner’s manual. If, after referring to the manual, you still need help, call Cobra Customer Service at 773-889-3087.

Controls and Indicators

1. 6-Pin Microphone Connector
2. Power On/Off/Volume/Squelch Control
3. Dynamike®
4. RF Gain
5. Delta-Tune
6. SWR CAL / Talk Back
7. Channel Selector
8. LED Channel Display
9. ANT Indicator and Bluetooth® LED Indicator
10. RX (Receive)/TX (Transmit) LED Indicator
11. Channel 9/ Normal Switch
12. Dimmer Switch
13. CB/PA Switch
14. NB/ANL ANL Off Switch
15. S/RF SWR CAL Switch
16. Signal Strength Meter
17. Microphone
18. Bluetooth Button

Back Side
19. External Bluetooth Microphone Jack
20. Public Address Speaker Jack
21. External Speaker Jack
22. Power Jack
23. Antenna Connector

NOTE
This device complies with part 15 of the FCC Rules. Operation is subject to the following two (2) 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. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user’s authority to operate the equipment.

Cobra Customer Service
Live operators are available M-F 8:00 am - 5:30 pm Central Time at 773-889-3087.
Automated Technical Assistance available 24 hours a day, seven days a week. E-mail questions to: productinfo@cobra.com
Cobra on the World Wide Web: Frequently Asked Questions (FAQ) can be found on-line at: www.cobra.com

Ordering From U.S.A.
Call 773-889-3087 for pricing or visit www.cobra.com.
For Credit Card Orders
Call 773-889-3087 (Press one from the main menu) 8:00 a.m. to 5:30 p.m. Central Time, Monday through Friday.
Make Check or Money Order Payable To Cobra Electronics, Attn: Accessories Dept., 6500 West Cortland Street, Chicago, IL 60707 U.S.A.
To Order Online
Please visit our website: www.cobra.com
How to Use Your Cobra 29 LTD BT

Contents

Features .................................................................................................................1

The CB Story ..........................................................................................A1

FCC Regulations

FCC Warnings

Included Accessories

Controls & Indicators .......................................................................A2

Our Thanks to You .............................................................................A3

Customer Support

Installation

Location Mounting and Connection ................................................ 2

Antennas

CB Antenna Marine Installation ...........................................................6

Ignition Noise Interference ......................................................................7

Operating Your 29 LTD BT

Turning On Your CB Setting Channel Selector Calibrate For SWR (Standing Wave Ratio)...9

To Receive... Bluetooth Linking With Cell Phone Selecting a Channel 14

Bright/Dim Switch N-BANL/ANL/OFF (Noise Blanker/Automatic Noise Limiter) 16

Noise Limiter Switch) RF Meter 17

S-Meter ................................................................................................ 18

External Speaker/Microphone Setting Delta Tune Setting Squelch 19

To Transmit To Transmit 20

Setting Dynamike® Transmit 22

TalkBack

PA (Public Address) Home And Office Set-Up 24

Temporary Mobile Set-Up 26

How Your CB Can Serve You A Few Rules You Should Know 28

Channel 9 Emergency Messages 28

CB 10 Codes 30

Frequency Ranges 32

29 LTD BT Specifications 33

Warranty Information 34

Optional Accessories 35

Accessory Order Info 37

If You Think You Need Service Back Cover

Features of This Product

• 40 CB Radio Channels

• Heavy-Duty Noise Canceling Microphone

• Full 4 Watts AM RF Power Output

• SWR Calibration Meter

• Talk Back

• Instant Channel 9

• Allows use of Bluetooth® enabled cell phone through CB

• 6-Pin Front Mount Microphone Connector

• Delta -Tune

• Switchable Automatic Noise Limiter & Noise Blanker

• Adjustable Dynamike® Boost

• 9 Ft. Mic Cord

• RF Gain
Installation

Location

Plan location of transceiver and microphone bracket before starting the installation.

Select a location that is convenient for operation, yet does not interfere with the driver or passenger.

The transceiver is usually mounted to the underside of the dash with the microphone bracket beside it.

Mounting and Connection

Note

The transceiver is held in the universal mounting bracket by two thumbscrews which allow for adjustment at a convenient angle.

The bracket includes two self-tapping screws and star washers. The mounting must be mechanically strong, conveniently located.

Mounting and Connection

1 Hold the radio with the mounting bracket in the exact desired location. If there is no interference, remove the bracket and use it as a template to mark the location for the mounting screws.

2 Connect the antenna cable plug to the receptacle marked “ANT” on the back of the unit.

3 Drill the holes and secure the bracket.

4 Drill the holes and secure the bracket.
Connecting to an accessory fuse prevents the unit from being left on accidentally, and also permits operating the unit without running the engine.

Note

Connecting to a positive ground vehicle requires the following:

In a positive ground vehicle:
The red wire goes to the chassis and the black wire is connected to the ignition switch.

Before installing the CB radio, visually check the vehicle’s battery connection to determine which terminal, positive or negative, is grounded (positive is the larger of the two) to the engine block (or chassis). A negatively grounded vehicle has its negative lead grounded to the chassis.

1. In a negative grounded vehicle, connect the red lead of the DC power cord to an accessory 12 volt fuse.

2. Connect the black lead to the negative side of the vehicle. This is usually the chassis. Any convenient location with a good electrical contact (remove paint) may be used.

3. Plug power cable into back of unit marked “Power”. Be sure to observe polarity markings.

4. Mount the microphone bracket on either side of the unit (driver’s left) using two screws supplied. Bracket should be placed under the dash so microphone is readily accessible.

5. Attach the 6-pin microphone cable to receptacle, on the front of unit and install unit on bracket securely.
Ignition Noise Interference

Use of a mobile receiver at low signal levels is normally limited by the presence of electrical noise. The primary source of noise in automobiles is from the alternator and ignition system. Typically, when signal level is adequate, the background noise does not present a serious problem. Also, when extremely low level signals are being received, the transceiver may be operated with the vehicle’s engine turned off. The unit requires very little current and therefore will not significantly discharge the vehicle’s battery.

Even though the Cobra 29 LTD BT has an automatic noise limiter, in some installations ignition interference may be high enough to make good communications impossible. Many possibilities exist and variations between vehicles require different solutions. Consult your COBRA dealer or a 2-way radio technician for help in locating the source of a severe noise.

CB Antenna

Since the maximum allowable power output of the transmitter is limited by the FCC, the antenna is critical in affecting transmission distance. Only a properly matched antenna system will allow maximum power output. Cobra loaded type antenna models are highly recommended for most installations. Consult your Cobra dealer for further details, or call 773-889-3087 and speak to a Cobra representative.

A standard antenna connector is provided on the transceiver for easy connection.

Note
For optimum performance in passenger cars the ideal antenna location is on the center of the roof. Second choice is on the center of the trunk.

Note
Because many newer trucks feature fiberglass door skins, the outside mirror must be grounded to the chassis via a ground strap when antenna is mounted on the mirror bracket.

Note
3-way Combination Antennas are also available which allow operation of all three bands (AM-FM & CB), using a single antenna. However, this type of antenna usually results in less than normal transmit and receive range when compared to a standard-type “Single Band” CB antenna. Call 773-889-3087 for further information.

Marine Installation

The transceiver will not operate at maximum efficiency in a boat without a ground plate, (unless it has a steel hull). Before attempting installation, consult your dealer for information regarding an adequate grounding system and prevention of electrolysis between fittings in the hull and water.

Note
3-way Combination Antennas are also available which allow operation of all three bands (AM-FM & CB), using a single antenna. However, this type of antenna usually results in less than normal transmit and receive range when compared to a standard-type “Single Band” CB antenna. Call 773-889-3087 for further information.
Turning On

Make sure the power cord, antenna and microphone are connected to their proper connectors before starting.

1. The CB/PA button should be in the CB position.
2. Rotate the On/Off Volume knob clockwise to a normal listening level.

Setting Channel Selector

Select one of forty channels and adjust volume. The selected channel is indicated by the LED readout directly above the channel selector knob.
Calibrate For SWR (Standing Wave Ratio)

SWR calibration is done to properly adjust the length of the antenna and to monitor the quality of the coaxial cable and all RF connections. This calibration is critical in order to achieve optimum performance.

1. Select channel 20.
2. Switch to the CAL position.
3. Push and hold mic button.
4. While holding mic button adjust the SWR CAL knob so the meter needle swings to the CAL mark on the meter (located on the right).

Note: Antenna Indicator LED will illuminate when TX if SWR is high.

Note: Calibration must be made in an open area (never in a garage). Vehicle doors must be closed. No one should be standing near the antenna. (See your antenna directions for more complete information).

continued
Note
The reading will be slightly higher on Channels 1 and 40 compared to Channel 20.

Note
When switched to SWR position the meter needle should ideally be as far to the left as possible. Anything over 3 is not acceptable. The antenna indicator will light. A slight antenna height adjustment (higher or lower) may be required. Repeat calibration steps.

1. While still holding down the mic button, set the S/RF SWR CAL switch to the SWR position, to read the SWR reading.
2. Repeat the same steps two through five on Channel 1 and 40. This will check SWR for all channels.

To Receive

1. Rotate the On/Off Volume knob clockwise the green RX/TX LED will be illuminated.
Bluetooth®

Note
When cell phone calls are in progress using the Bluetooth feature, the CB functions of the unit are disabled.

Bluetooth
Calls on a Bluetooth enabled cell phone can be routed through the 29 LTD BT speaker or external speaker accessory.

To Pair with a Cell Phone
1. With 29 LTD BT power On, press and hold the BT Button for six seconds to enter Standby mode. A tone will sound and the BT LED will flash for one minute to confirm entry to Standby.
2. From Standby, press and hold the BT Button for four seconds to enter Pairing mode.
   A. First time pairing with a cell phone:
      I. A tone will sound and the BT LED will flash rapidly to confirm Pairing mode.
      II. Follow the cell phone manufacturer’s instruction to enable its Bluetooth function and enter the PIN (Personal Identification Number) 0000.
      III. Successful pairing will be indicated by a tone and brief flashing of the BT LED to confirm entry to Connected mode. A pair record will also be established for subsequent connections.
   B. Subsequent pairings with a cell phone:
      I. Follow any cell phone manufacturer instructions, if needed, to enable the Bluetooth function.
      II. Successful pairing will be indicated by a tone and brief flashing of the BT LED to confirm entry to Connected mode.

To Answer Calls
1. Press and release the BT Button when the cell phone ring is heard through the 29 LTD BT speaker. The BT LED will light steadily to indicate a call is in progress.
2. Speak into the 29 LTD BT microphone. The CB function of the unit and PTT Button will be disabled while a call is in progress.
3. End the call by press and release of the BT Button. A tone will sound and the BT LED will flash briefly.

To Initiate Calls
1. Dial a number according to the cell phone manufacturer’s instructions. The key press and other tones will be heard through the 29 LTD BT speaker.
2. Press Send on the cell phone. The BT LED will light steadily to indicate a call is in progress, and after a few seconds, you will hear the ring tone for the number you dialed.
3. Once connected, speak into the 29 LTD BT microphone.
4. End the call by press and release of the BT Button. The BT LED will flash briefly.

To Enable or Disable Voice Dialing
If the paired cell phone supports voice dialing, press and release the BT Button twice to toggle between enabling and disabling this feature.

To Turn Off The Bluetooth Function
Press and hold the BT Button for six seconds to turn off the Bluetooth function. Two short tones will sound and the BT LED will turn Off and remain Off.

To Re-pair The 29 LTD BT To The Cell Phone
If pairing is lost while the 29 LTD BT power is On, press and hold the BT Button for four seconds to re-pair with the cell phone. If the 29 LTD BT is turned Off, it will retain the Bluetooth address and automatically re-pair with the last cell phone used when it is turned back On.

Note
For best audio quality while using the Bluetooth feature, place your cell phone at least 12 inches away from the 29 LTD BT.

Note
The optional external microphone (see accessories on page 35) can be plugged into the rear of the unit and clipped to a pocket or lapel for hands free speech during calls.

When the optional microphone is plugged in, the main microphone will not pick up speech during calls but will be fully functional for CB operation.

Note
If no further pairing steps are taken, the unit will time-out and return to Standby after five minutes. During the pairing process, press and release the BT Button to cancel the pairing process.
Selecting A Channel

1. Switch to NOR to select desired channel.

Bright/Dim Switch

1. Switch to BRT or DIM to control brightness of the channel indicator and multi-function meter for day or nighttime driving.

Operation

Switch to NOR to select desired channel.

NB-ANL/ANL/OFF (Noise Blanker/Automatic Noise Limiter) Switch

1. When switched to ANL the Automatic Noise Limiter is activated. This helps reduce noise created by the vehicle's electronics.

   When switched to NB/ANL position the RF Noise Blanker is also activated, providing increased noise filtration.

   When switched to OFF position all noise filtration will be turned off.

Note

The RF noise blanker is very effective in reducing repetitive noises such as ignition interference.
The S/RF-SWR-CAL switch must be in the S/RF position to read the meter.

S-Meter
Swings proportionately to strength of incoming signal when receiving.

RF Gain Control
The RF Gain is used to optimize reception in strong or weak signal areas.

- Rotate the RF Gain knob counterclockwise to reduce gain in strong signal areas. In weak signal areas turn clockwise to increase gain.

External Speaker & Bluetooth Microphone
The external speaker jack is used for remote receiver monitoring. The optional Bluetooth microphone connects to the Ext Mic jack.

- Connect an external speaker and/or Bluetooth microphone to the jacks on the rear panel.

Note
The external speaker should have 8-ohm impedance and be rated to handle at least 4.0 watts. When the external speaker is plugged in, the internal speaker is automatically disconnected.

Note
Note
Cobra external speakers are rated at 10 watts.

RF Meter
This meter swings proportionately to the RF output (outgoing signal) while transmitting.

- The S/RF-SWR-CAL switch must be in the S/RF position.

S-Meter
Swings proportionately to strength of incoming signal when receiving.

- The S/RF-SWR-CAL switch must be in the S/RF position to read the meter.

External Speaker
The external speaker should have 8-ohm impedance and be rated to handle at least 4.0 watts. When the external speaker is plugged in, the internal speaker is automatically disconnected.

Note
Cobra external speakers are rated at 10 watts.

RF Gain Control
The RF Gain is used to optimize reception in strong or weak signal areas.

- Rotate the RF Gain knob counterclockwise to reduce gain in strong signal areas. In weak signal areas turn clockwise to increase gain.

S-Meter
Swings proportionately to strength of incoming signal when receiving.
### Setting Delta-Tune

Delta-Tune functions as a "fine tune" control enabling you to capture a more readable signal, as well as eliminate adjacent channel interference.

1. Rotate Delta-Tune knob to the center position for optimum tuning.

### Setting Squelch

Squelch is the "control gate" for incoming signals.

3. Full clockwise rotation closes the gate allowing only very strong signals to enter.

2. Full counterclockwise rotation opens the "gate" allowing all signals in.

To achieve the Desired Squelch Setting (DSS), turn the Squelch control counterclockwise until you hear noise. Now turn the control clockwise just until the noise stops. This is the DSS setting.
**Setting Dynamike®**

This controls the microphone sensitivity (outgoing audio level).

1. Initially, set fully clockwise so that maximum voice volume is available. Dynamike® may have to be reduced in some conditions.

**To Transmit**

Caution!

Be sure the antenna is properly connected to the radio before transmitting. Prolonged transmitting without an antenna, or a poorly matched antenna, could cause damage to the transmitter.

Be sure to read the F.C.C. Rules and Regulations included with this unit before transmitting.

1. Select desired channel.

**Transmit**

Push and hold mic button to transmit. Transmitter is now activated. When transmitting, hold the microphone two inches from your mouth and speak in a clear, normal voice. Release to receive.

**Setting TalkBack**

This control is used to adjust the desired amount of modulation talk back that is present at the speaker during transmit. At fully counter-clockwise position the talk back is off.

**TalkBack**

1. Push and hold mic button to transmit. Transmitter is now activated. When transmitting, hold the microphone two inches from your mouth and speak in a clear, normal voice. Release to receive.
**PA (Public Address)**

1. Connect an external PA speaker to the PA jack on the rear panel.

2. Set CB/PA switch to PA position.

3. Push and hold microphone button and speak in a normal voice. Your voice will now transmit on the PA speaker.

4. Adjust PA speaker volume with the Dynamike® control.

**Note**

- Speaker should have 8-ohm impedance and be rated to handle at least 4.0 watts.
- The speaker should be directed away from the microphone to prevent acoustic feedback.
- Activity on the CB channel will be heard through the PA speaker. Adjust volume control to a normal listening level.
Home And Office Set-Up

Base Station Operation
(From 120V AC House Current)

**Warning!**
Do not attempt to operate this transceiver by connecting it directly to 120v ac.

**Note**
For further information call Cobra Customer Service 773-889-3087.

1. Simply connect the red (+) and black (-) leads of the transceiver to the corresponding terminals of the power pack.

2. Plug power cable into back of unit marked “Power”. Be sure to observe polarity markings.

3. Connect properly installed and matched base station antenna.

Temporary Mobile Set-Up

For temporary mobile operation you may want to purchase an optional automobile power adapter from your COBRA dealer. This adapter and a magnetic mount antenna allow you to quickly “install” your transceiver for temporary use.

1. Base Station Operation
(From 120V AC House Current)

To operate your transceiver from home or office you will need a 13.8 volt DC Power Pack rated at a minimum of 2 amps, and a properly installed base station antenna.

Temporary Mobile Operation

Plug power cable into back of unit marked “Power”. Be sure to observe polarity markings.

Connect properly installed and matched base station antenna.
The FCC gives these examples of permitted and prohibited messages for channel 9. These are only guidelines and not all-inclusive:

<table>
<thead>
<tr>
<th>Permitted</th>
<th>Example Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>&quot;Tornado sighted six miles north of town.&quot;</td>
</tr>
<tr>
<td>No</td>
<td>&quot;Post number 10. No tornado sighted.&quot;</td>
</tr>
<tr>
<td>Yes</td>
<td>&quot;Out of gas on I-95 at mile marker 211.&quot;</td>
</tr>
<tr>
<td>No</td>
<td>&quot;Out of gas in my driveway.&quot;</td>
</tr>
<tr>
<td>Yes</td>
<td>&quot;Four car accident on I-94 at Exit 11. Send police and ambulance.&quot;</td>
</tr>
<tr>
<td>No</td>
<td>&quot;Traffic moving smoothly on I-94.&quot;</td>
</tr>
<tr>
<td>Yes</td>
<td>&quot;Weather Bureau has issued thunderstorm warning. Bring sailboat into port.&quot;</td>
</tr>
<tr>
<td>No</td>
<td>&quot;Attention motorists. Weather Bureau advises snow tomorrow will accumulate 4 to 6 inches.&quot;</td>
</tr>
<tr>
<td>Yes</td>
<td>&quot;Fire in building at 539 Main, Evanston.&quot;</td>
</tr>
<tr>
<td>No</td>
<td>&quot;Halloween patrol number 3. All quiet.&quot;</td>
</tr>
</tbody>
</table>

A Few Rules You Should Know

1. Set to channel 9 for emergencies
   Be sure antenna is properly connected.
2. CB Distress Data
   When transmitting an emergency, you should request a "REACT BASE" and provide the CB distress data (called CLIP):
   - C all Sign: Identify yourself.
   - L ocation: Be exact.
   - I njuries: Number. Type. Trapped?
   - P roblem: Give details and help needed.
   Transmit CLIP repeatedly so any monitor can assist.
### CB 10-Codes

Citizen Bands have adopted the "10-CODES" for standard questions and answers. These codes provide quick and easy communication, especially in noisy areas. Following are some of the more common codes and meanings:

<table>
<thead>
<tr>
<th>Code</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-1</td>
<td>Receiving poorly</td>
</tr>
<tr>
<td>10-2</td>
<td>Receiving well</td>
</tr>
<tr>
<td>10-3</td>
<td>Stop transmitting</td>
</tr>
<tr>
<td>10-4</td>
<td>OK, message received</td>
</tr>
<tr>
<td>10-5</td>
<td>Relay message</td>
</tr>
<tr>
<td>10-6</td>
<td>Busy, stand by</td>
</tr>
<tr>
<td>10-7</td>
<td>Out of service, leaving</td>
</tr>
<tr>
<td>10-8</td>
<td>In service, subject to call</td>
</tr>
<tr>
<td>10-9</td>
<td>Repeat message</td>
</tr>
<tr>
<td>10-10</td>
<td>Transmission completed standing by</td>
</tr>
<tr>
<td>10-11</td>
<td>Talking too rapidly</td>
</tr>
<tr>
<td>10-12</td>
<td>Visitors present</td>
</tr>
<tr>
<td>10-13</td>
<td>Advise weather/roads</td>
</tr>
<tr>
<td>10-14</td>
<td>Make pick up at</td>
</tr>
<tr>
<td>10-15</td>
<td>Urgent business</td>
</tr>
<tr>
<td>10-16</td>
<td>Anything for us?</td>
</tr>
<tr>
<td>10-17</td>
<td>Return to base</td>
</tr>
<tr>
<td>10-18</td>
<td>My location is</td>
</tr>
<tr>
<td>10-19</td>
<td>Call by phone</td>
</tr>
<tr>
<td>10-20</td>
<td>Report in person to</td>
</tr>
<tr>
<td>10-21</td>
<td>Stand by</td>
</tr>
<tr>
<td>10-22</td>
<td>Completed last assignment</td>
</tr>
<tr>
<td>10-23</td>
<td>Can you contact</td>
</tr>
<tr>
<td>10-24</td>
<td>Disregard last info</td>
</tr>
<tr>
<td>10-25</td>
<td>Moving to channel</td>
</tr>
<tr>
<td>10-26</td>
<td>Identify your station</td>
</tr>
<tr>
<td>10-27</td>
<td>Time is up for contact</td>
</tr>
<tr>
<td>10-28</td>
<td>Does not conform to FCC rules</td>
</tr>
<tr>
<td>10-29</td>
<td>Emergency traffic</td>
</tr>
<tr>
<td>10-30</td>
<td>Trouble at this station</td>
</tr>
<tr>
<td>10-31</td>
<td>Confidential information</td>
</tr>
<tr>
<td>10-32</td>
<td>Correct time is</td>
</tr>
<tr>
<td>10-33</td>
<td>Wrecker needed at</td>
</tr>
<tr>
<td>10-34</td>
<td>Ambulance needed</td>
</tr>
<tr>
<td>10-35</td>
<td>Message delivered</td>
</tr>
<tr>
<td>10-36</td>
<td>Turn to channel</td>
</tr>
<tr>
<td>10-37</td>
<td>Traffic accident at</td>
</tr>
<tr>
<td>10-38</td>
<td>Traffic tie up at</td>
</tr>
<tr>
<td>10-39</td>
<td>Have a message for</td>
</tr>
<tr>
<td>10-40</td>
<td>All units within range please report</td>
</tr>
<tr>
<td>10-41</td>
<td>Break channel</td>
</tr>
<tr>
<td>10-42</td>
<td>What is next message number?</td>
</tr>
<tr>
<td>10-43</td>
<td>Unable to copy. Use phone</td>
</tr>
<tr>
<td>10-44</td>
<td>Not directed to</td>
</tr>
<tr>
<td>10-45</td>
<td>Net clear</td>
</tr>
<tr>
<td>10-46</td>
<td>Awaiting your next message/assignment</td>
</tr>
<tr>
<td>10-47</td>
<td>All units comply</td>
</tr>
<tr>
<td>10-48</td>
<td>Fire at</td>
</tr>
<tr>
<td>10-49</td>
<td>Proceed, transmission in sequence</td>
</tr>
<tr>
<td>10-50</td>
<td>Negative contact</td>
</tr>
<tr>
<td>10-51</td>
<td>Reserve hotel room for</td>
</tr>
<tr>
<td>10-52</td>
<td>Reserve room for</td>
</tr>
<tr>
<td>10-53</td>
<td>My address is</td>
</tr>
<tr>
<td>10-54</td>
<td>Talk closer to mic</td>
</tr>
<tr>
<td>10-55</td>
<td>Check my frequency on this channel</td>
</tr>
<tr>
<td>10-56</td>
<td>Give me a long count</td>
</tr>
<tr>
<td>10-57</td>
<td>Mission completed, all units secure</td>
</tr>
<tr>
<td>10-58</td>
<td>Police needed at</td>
</tr>
</tbody>
</table>
The COBRA 29 LTD BT transceiver represents one of the most advanced AM two-way radios used as a Class D station in the Citizens Radio Service. This unit features advanced Phase Lock Loop (PLL) circuitry providing complete coverage of all 40 CB channels.

### Frequency Ranges

<table>
<thead>
<tr>
<th>Channel</th>
<th>CB Freq. In MHz</th>
<th>Channel</th>
<th>CB Freq. In MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>26.965</td>
<td>21</td>
<td>27.215</td>
</tr>
<tr>
<td>2</td>
<td>26.975</td>
<td>22</td>
<td>27.225</td>
</tr>
<tr>
<td>3</td>
<td>26.985</td>
<td>23</td>
<td>27.255</td>
</tr>
<tr>
<td>4</td>
<td>27.005</td>
<td>24</td>
<td>27.235</td>
</tr>
<tr>
<td>5</td>
<td>27.015</td>
<td>25</td>
<td>27.245</td>
</tr>
<tr>
<td>6</td>
<td>27.025</td>
<td>26</td>
<td>27.265</td>
</tr>
<tr>
<td>7</td>
<td>27.035</td>
<td>27</td>
<td>27.275</td>
</tr>
<tr>
<td>8</td>
<td>27.055</td>
<td>28</td>
<td>27.285</td>
</tr>
<tr>
<td>9</td>
<td>27.065</td>
<td>29</td>
<td>27.295</td>
</tr>
<tr>
<td>10</td>
<td>27.075</td>
<td>30</td>
<td>27.305</td>
</tr>
<tr>
<td>11</td>
<td>27.085</td>
<td>31</td>
<td>27.315</td>
</tr>
<tr>
<td>12</td>
<td>27.105</td>
<td>32</td>
<td>27.325</td>
</tr>
<tr>
<td>13</td>
<td>27.115</td>
<td>33</td>
<td>27.335</td>
</tr>
<tr>
<td>14</td>
<td>27.125</td>
<td>34</td>
<td>27.345</td>
</tr>
<tr>
<td>15</td>
<td>27.135</td>
<td>35</td>
<td>27.355</td>
</tr>
<tr>
<td>16</td>
<td>27.155</td>
<td>36</td>
<td>27.365</td>
</tr>
<tr>
<td>17</td>
<td>27.165</td>
<td>37</td>
<td>27.375</td>
</tr>
<tr>
<td>18</td>
<td>27.175</td>
<td>38</td>
<td>27.385</td>
</tr>
<tr>
<td>19</td>
<td>27.185</td>
<td>39</td>
<td>27.395</td>
</tr>
<tr>
<td>20</td>
<td>27.205</td>
<td>40</td>
<td>27.405</td>
</tr>
</tbody>
</table>

### Specifications

**GENERAL**
- **Channels**: CB - 40 CH
- **Frequency Range**: CB - 26.965 to 27.405 MHz
- **Frequency Tolerance**: 0.005%
- **Frequency Control**: PLL (Phase Lock Loop) Synthesizer
- **Microphone**: Plug-in noise canceling
- **Input Voltage**: 13.8VDC nom. (positive or negative ground)
- **Current Drain**: Transmit: AM full mod., 1.5A (maximum)
- **Receive**: Squelched, 0.3A; full audio output, 1.2A (nominal)
- **Size**: 8-5/8" D x 7-9/32" W x 2-13/64" H
- **Weight**: 4 lbs.
- **Antenna Connector**: UHF; SO-239
- **Meter**: Illuminated; indicates relative power output, received signal strength and VSWR
- **Bluetooth Range**: 33' (10 meters)

**TRANSMITTER**
- **Power Output**: 4 watts
- **Modulation**: AM (Amplitude Modulation)
- **Frequency Response**: 300 to 3000 Hz
- **Output Impedance**: 50 ohms, unbalanced

**RECEIVER**
- **Sensitivity**: Less than 1 µV for 10 dB (S+N) /N
- **Selectivity**: 60 dB @ 7 KHz, 60 dB @ 10KHz
- **Image Rejection**: 80 dB, typical
- **Adjacent-Channel Rejection**: 60 dB, typical
- **IF Frequencies**: Double Conversion: 1st: 10.695 MHz
- **Automatic Gain Control (AGC)**: Less than 10 dB change in audio output for inputs from 10 to 50,000 microvolts
- **RF Gain Control**: Adjustable for optimum signal reception
- **Noise-Blanker**: RF type
- **Audio Output Power**: 4 watts
- **Audio Output Frequency Response**: 100 Hz to 10 kHz
- **Distortion**: Less than 5% @ 50 watts @ 1000 Hz
- **Built-in Speaker**: 8 ohms, 5 watts
- **External Speaker (Not supplied)**: 8 ohms, doubles internal speaker when connected

**PA SYSTEM**
- **Power Output**: 4 watts into external speaker
- **Built-in Speaker**: 8 ohms, when PA-CB switch is in PA, (Not supplied)

**WARNING**: This product contains lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.
Cobra Electronics Corporation warrants that its COBRA CB Radios, and the component parts thereof, will be free of defects in workmanship and materials for period of one (1) year from the date of first consumer purchase. This warranty may be enforced by the first consumer purchaser, provided that the product is utilized within the U.S.A.

COBRA will, without charge, repair or replace, at its option, defective CB radios, products or component parts upon delivery to the COBRA factory Service Department, accompanied by proof of the date of first consumer purchase, such as a duplicated copy of a sales receipt.

You must pay any initial shipping charges required to ship the product for warranty service, but the return charges will be at Cobra's expense, if the product is repaired or replaced under warranty.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Exclusions: This limited warranty does not apply, 1) to any product damaged by accident; 2) in the event of misuse or abuse of the product or as a result of unauthorized alterations or repair; 3) if the serial number has been altered, defaced or removed; 4) if the owner of the product resides outside the U.S.A.

All implied warranties, including warranties of merchantability and fitness for a particular purpose are limited in duration to the length of this warranty. COBRA shall not be liable for any incidental, consequential or other damages; including, without limitation, damages resulting from loss of use or cost of installation.

Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you.
Optional Accessories cont.

Dynamic External Speaker
HG S100

Noise Canceling External Speaker
HG S300

Noise Canceling With Talk Back External Speaker
HG S500

Optional Accessories
You can find quality Cobra products and accessories at your local Cobra dealer, or in the U.S.A., you can order directly from Cobra. See ordering info on page 37.