### How to Use Your Cobra 29 WX NW BT

Features1	
The CB StoryA1	Features
FCC Regulations	reatures
FCC Warnings	• 7 Weat
Included Accessories	• / weat
Controls & IndicatorsA2	<b>-</b>
Our Thanks to You	<ul> <li>Emerge</li> </ul>
SoundTracker <sup>™</sup>	
Customer Support	Blueto
Installation	
Location2	• 40 CB F
Mounting and Connection	
Antennas	<ul> <li>Sound</li> </ul>
CB Antenna	
Marine Installation	<ul> <li>Heavy-</li> </ul>
Ignition Noise Interference	
Operating Your 20 WX NW PT	Microp
Operating Your 29 WX NW BT	
Turning On Your CB	<ul> <li>Full 4 W</li> </ul>
Setting Channel Selector	
Calibrate For SWR (Standing Wave Ratio)10	<ul> <li>SWR Co</li> </ul>
To Receive	
Selecting a Channel	<ul> <li>Instant</li> </ul>
S-Meter	motant
NB-ANL/ANL/Off (Noise Blanker/Automatic16	Front P
Noise Limiter Switch)	
CB/WX Switch17	Connec
RF Gain Control17	
Dimmer Switch18	<ul> <li>Switche</li> </ul>
Setting Squelch18	l imiter
To Transmit20	Linner
Setting Dynamike <sup>®</sup> 20	
Transmit21	<ul> <li>Adjusta</li> </ul>
RF Meter22	
External Speaker23	<ul> <li>Tactile</li> </ul>
PA (Public Address)24	
Weather Channels26	• 9 Ft Mi
Home And Office Set-Up28	
Temporary Mobile Set-Up	<ul> <li>Illumin</li> </ul>
How Your CB Can Serve You	
A Few Rules You Should Know	Dimme
Channel 9 Emergency Messages	Dimine
Weather Channel Messages	• RF Gair
CB 10 Codes	• nr Gull
Frequency Ranges	
29 WX NW BT Specifications	
Warranty Information	
Optional Accessories	
Order Form	
If You Need Service/Trademark InfoBack Cover	CAUTION: TO F SHOCK DO NO
	NO USER S

eatures of This Product				
7 Weather Channels				
Emergency Weather Alert				
Bluetooth® Connectivity				
40 CB Radio Channels				
SoundTracker <sup>®</sup> System				
Heavy-Duty Dynamic Microphone				

- Full 4 Watts AM RF Power Output
- SWR Calibration Meter
- nstant Channel 19 and 9
- Front Panel 6-Pin Microphone Connector

-

- Switchable Automatic Noise imiter & Noise Blanker
- Adjustable Dynamike Boost
- Tactile Controls
- 9 Ft Mic Cord
- lluminated Front Panel
- Dimmer Control
- RF Gain



### Installation

### Installation

->>

#### Location

Connection

The transceiver is held in the

universal mounting bracket by

two thumbscrews which allow for adjustment at a convenient

The bracket includes two selftapping screws and star washers. The mounting must be

mechanically strong, conve-

niently located.

Note

angle.

#### Location

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

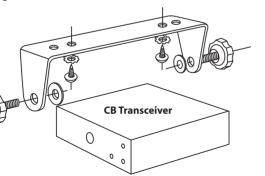
Select a location that is convenient for operation, yet does not interfere with the driver or passenger.

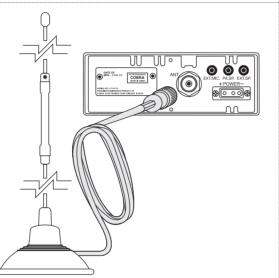
The transceiver is usually mounted to the underside of the dash with the microphone bracket beside it.

### Mounting and Mounting and Connection

2

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.





Connect the antenna cable plug to the receptacle marked "ANT" on the back of the unit.

**2** Drill the holes and secure the bracket.

continued

### Installation

### Installation

#### Note

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.

#### Note

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

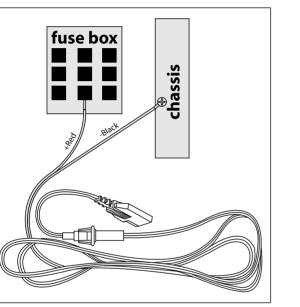
#### Note

In positive ground vehicles the red wire goes to the chassis and the black wire is connected to the ignition switch.

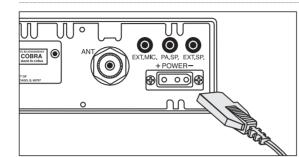
#### Note

When connected to an accessory fuse, unit will self test the emergency weather alert automatically when ignition is turned on. Turns itself on & off.

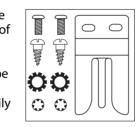
4



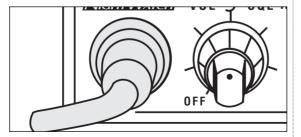
- In a negative grounded vehicle, connect the red lead of the DC power cord to an accessory 12 volt fuse.
- Connect the black lead to the negative side of the vehicle. This is usually the chassis. Any convenient location with a good electrical contact (remove paint) may be used.



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



8 Attach the 6-pin microphone cable to receptacle on front of unit and Install unit in bracket securely.



### **Ignition Noise Interference**

7

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### Antennas

#### CB Antenna

#### 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

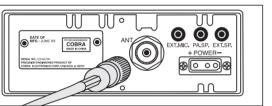
Because many newer trucks feature fiberglass door skins, the outside mirror must be grounded to the chassis via a ground strap, if the antenna is mounted on the mirror bracket.

#### 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.

#### 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. For models with Weather Feature (WX), a Dual Band (Center Load/Base Load) antenna is recommended. 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.

#### **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. 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 WX NW 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.

### Operation

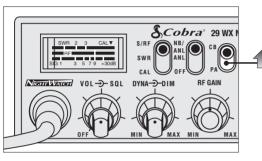
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#### Turning On

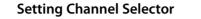
#### Turning On

8

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



• The CB/PA button should be in the CB position.





• Select One of forty channels and adjust volume. The selected channel is indicated by the LED readout directly above the channel selector knob



2 Rotate the On/Off Volume knob () clockwise to a normal listening level.

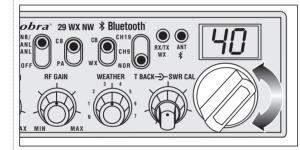
### Setting Channel Selector

### **Operation**

#### Calibrate For SWR (Standing Wave Ratio)

#### Calibrate for SWR (Standing Wave Ratio)

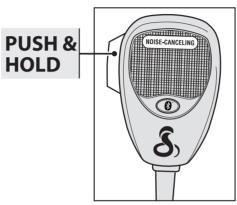
SWR calibration is done to properly adjust the length of the antenna and to monitor the quality of the coaxial cable and all RF connections. This calibration is critical in order to achieve optimum performance.



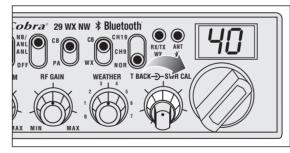
### • Select 🖉 channel 20.

10





**3** Push and hold mic button.



While holding mic button adjust the SWR CAL knob so the meter needle swings to the CAL ▼ mark on

# SWR 2 3 CAL

the meter (located on the right).

#### 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).

#### Note

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

continued

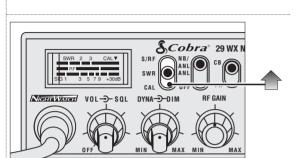
(11)

### **Operation**

#### Note

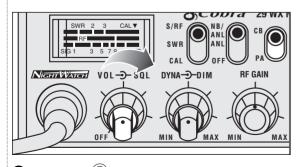
When switched to SWR position the meter needle should ideally be as far to the left as possible. Anything over 3 is not acceptable. A slight antenna height adjustment (higher or lower) may be required. Repeat recalibration steps.

#### To Receive



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

#### To Receive



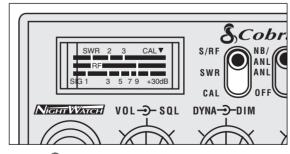
Rotate the On/Off Volume knob clockwise the green RT/TX LED will be illuminated.



• Switch to NOR to select desired channel.

#### 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.

#### Selecting A Channel

### Note

13

Switch to 9 (Emergency) or 19 (Information) for instant access to these channels.



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#### **S-Meter**

### Operation

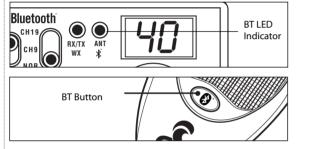
#### **Bluetooth®**

#### 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 WX NW BT speaker or external speaker accessory.



#### To Pair with a Cell Phone

14

- With 29 WX NW 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

- Press and release the BT Button when the cell phone ring is heard through the 29 WX NW BT speaker. The BT LED will light steadily to indicate a call is in progress.
- 2 Speak into the 29 WX NW BT microphone. The CB function of the unit and PTT Button will be disabled while a call is in B progress.

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

- Dial a number according to the cell phone manufacturer's instructions. The key press and other tones will be heard through the 29 WX NW 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.
- Once connected, speak into the 29 WX NW BT microphone.
- 4 End the call by press and release of the BT Button. The BT LED will flash briefly.
- 6 Redial a number by press and hold of the BT Button for two seconds. A tone will sound: and after a few seconds. you will hear the ring tone for the number you dialed.

#### 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 WX NW BT To The Cell Phone

If pairing is lost while the 29 WX NW BT power is On, press and hold the BT Button for four seconds to re-pair with the cell phone.

If the 29 WX NW 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 auality while usina the Bluetooth feature, place your cell phone at least 12 inches away from the 29 WX NW BT.



#### Note

The external microphone can be plugged into the rear of the unit and clipped to a pocket or lapel for hands-free speech during calls.

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

#### Note

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.

If no further pairing steps are

### Operation

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

Note

The RF noise blanker is very effective in reducing repetitive noises such as ignition interference.

16

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



• 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.

#### **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.

**RF Gain Control** 

**Note** The RF Gain is used to optimize reception in weak signal areas. .

17

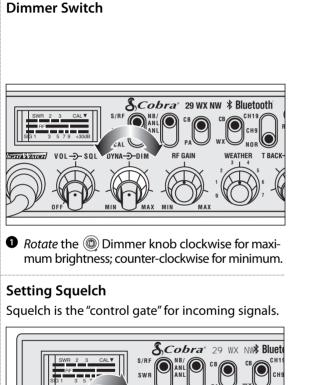
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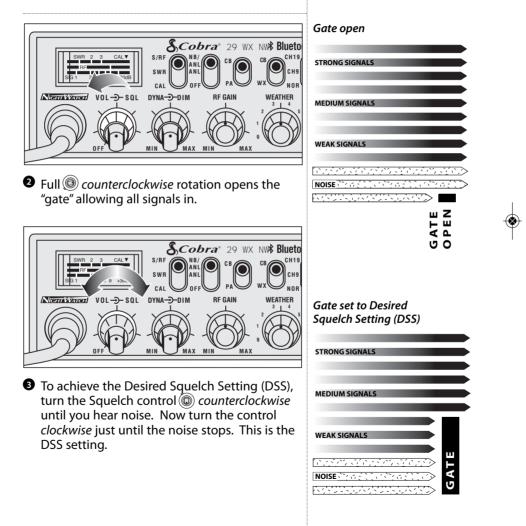
**Dimmer Switch** Di

**Operation** 

#### Note

The Dimmer controls the brightness of the front panel, signal strength meter and channel display.





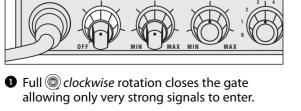
19

**Operation** 

### **Setting Squelch**

Gate closed
STRONG SIGNALS
MEDIUM SIGNALS
WEAK SIGNALS
NOISE

18



WEATHER

NIGHT WATCH VOL- SQL DYNA- DIM

### **Operation**

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Transmit

21

#### To Transmit



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

AX MIN MAX

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

Setting Dynamike®

transmitter.

#### Setting Dynamike®

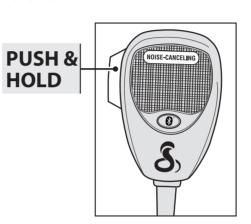
• Select desired Channel.

To Transmit

This controls the microphone sensitivity (outgoing audio level).



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



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.

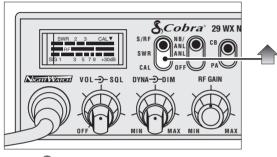
### Operation

#### **RF Meter**

#### RF Meter

22

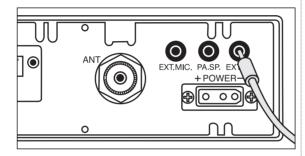
This meter swings proportionately to the RF output (outgoing signal) while transmitting.



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

#### External Speaker

The external speaker jack is used for remote receiver monitoring.



• Connect an external speaker to the external speaker jack on the rear panel.

#### **External Speaker**

#### 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. See accessory page 37.

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#### Note

23

Cobra external speakers are rated at 10 watts.

### Operation

#### PA (Public Address)

#### Note

Speaker should have 8-ohm impedance and be rated to handle at least 4.0 watts.

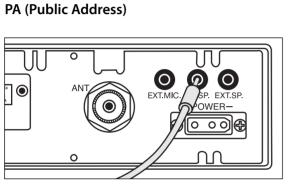
#### Note

The speaker should be directed away from the microphone to prevent acoustic feedback.

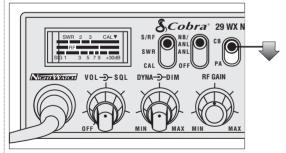
#### Note

Activity on the CB channel will be heard through the PA speaker. Adjust Volume Control to a normal listening level.

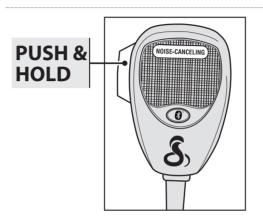
24



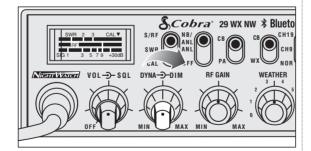
 Connect an external PA speaker to the PA jack on the rear panel.



**2** Set **CB/PA** switch to PA position.



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



25

• Adjust PA speaker volume with the 
 Dynamike control.

### **Operation**

#### Weather Radio

#### What is Weather Radio

NOAA Weather Radio (NWR) is a service of the National Oceanic and Atmospheric Administration (NOAA), of the U.S. Department of Commerce. 380 NWR stations are in operation by the U.S. Government in addition to several NWR stations that are maintained by private interest groups. The capability is to supplement warnings by sirens and by commercial radio and television. The 7 National Weather Channels provide full coverage to keep you informed of weather conditions, 24 hours a day, 7 days a week.

#### Weather Channels

#### **Operating Weather Channel Selector**



When CB/WX is on WX position Weather Receiver is activated.

- Place CB/WX Switch in the WX position.
- Turn the Weather Channel Selector (1-7) until you find the Weather Channel with the clearest reception. Sometimes more than one channel can be received, however, the closest broadcast to you will be the one with the clearest signal.

#### What You Should Know About Weather

If threatening weather is nearby, the National Weather Service may broadcast a 10 second alert tone. This tone will be heard through the CB, even if the CB/WX Switch is in the CB mode or the unit is turned off.

This enables you to monitor CB frequencies and still be warned by the National Weather Service Emergency Alert. When you hear the alert, place the CB/WX switch in the WX position. You will then be able to hear the Weather Warning Broadcast.

You can completely disable the Emergency Weather Alert feature by turning the Weather Channel Selector to the & position.

Your 29 WX NW BT has a special auto squelch circuit for weather transmission which disables your squelch control.

If you are using the CB mode, remember to change the CB/WX Switch from CB to WX every so often to make sure you are continually tuned to the clearest/closest weather band channel in case an alert is broadcast.

#### Weather Information

#### Note

27

For a list of weather frequencies see specification in the Frequency Ranges section on page 34.

If you wish to receive a listing of NOAA 'Weather Radio Transmitter locations, contact your nearest National Weather.

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Service Office, or write to: National Weather Service (Attn: W/OM11) NOAA Silver Springs, MD 20910.

For ideal weather reception use a dual band antenna (center load/baseload).

### Home And Office Set-Up

28

### **Temporary Mobile Set-Up**

#### Base Station Operation (From 120V AC House Current)

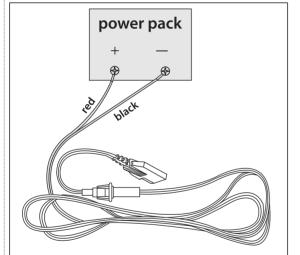
#### Base Station Operation (From 120V AC House Current)

To operate your transceiver from home or office you will need a 13.2 volt DC Power Pack rated at a minimum of 2 amps, and a properly installed base station antenna.

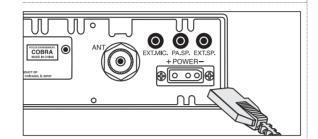


#### Note

For further information call Cobra Customer Service 1.773.889.3087.



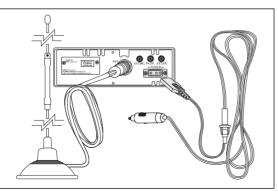
• Simply connect the red (+) and black (-) leads of the transceiver to the corresponding terminals of the power pack.



- 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 Operation**

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



#### Temporary Mobile Set-Up

### How Your CB Can Serve You

### How Your CB Can Serve You

31

- Warn of traffic problems
- Provide weather and road data
- Provide help in event of an emergency
- Provide direct contact with home or office
- Assist police by reporting erratic drivers Get "local information" to find destination
- · Communicate with family and friends
- Suggest spots to eat and sleep
- Keep you alert while traveling

#### A Few Rules You Should Know

- You Should A. Conversations cannot last more than 5 minutes with another station. A one minute break is required to let others use the channel.
  - B. You cannot blast others off the air by use of illegally amplified transmitters or illegally high antennas.
  - C. You cannot use CB to promote illegal activities.
  - D. Profanity is not allowed.
  - E. You may not transmit music with a CB.
  - F. Selling of merchandise and/or services is prohibited.
  - 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? Give details and help needed. **P** roblem

prohibited messages for channel 9. These are only guidelines and not all-inclusive: Permitted Example Message Yes "Tornado sighted six miles north of town." "Post number 10. No

The FCC gives these examples of permitted and

- No tornado sighted." Yes "Out of gas on I-95 at mile marker 211."
- "Out of gas in my driveway." No Yes "Four car accident on I-94 at
- Exit 11. Send police and ambulance." No "Traffic moving smoothly on I-94."
- "Weather Bureau has issued Yes thunderstorm warning.
- Bring sailboat into port." No "Attention motorists. Weather Bureau advises snow tomorrow will accumulate 4 to 6 inches."
- Yes "Fire in building at 539 Main, Evanston." "Halloween patrol number 3.
- No All quiet."

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#### **Channel 9** Emergency Messages

**A Few Rules** 

Know

### Note

If no response on channel 9, try channels 19 or 14.

- Transmit **CLIP** repeatedly so any monitor can assist.
- 30

### How Your CB Can Serve You

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### How Your CB Can Serve You

CB 10-Codes	
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#### S 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:

#### Code Meaning

- 10-1 Receiving poorly
- 10-2 Receiving well
- 10-3 Stop transmitting
- 10-4 OK, message received
- 10-5 Relay message
- 10-6 Busy, stand by
- 10-7 Out of service, leaving
- 10-8 In service, subject to call
- 10-9 Repeat message
- 10-10 Transmission completed standing by
- 10-11 Talking too rapidly
- 10-12 Visitors present
- 10-13 Advise weather/roads
- 10-16 Make pick up at
- 10-17 Urgent business
- 10-18 Anything for us?
- 10-19 Return to base
- 10-20 My location is
- 10-21 Call by phone
- 10-22 Report in person to
- 10-23 Stand by
- 10-24 Completed last assignment
- 10-25 Can you contact
- 10-26 Disregard last info
- 10-27 Moving to channel
- 10-28 Identify your station

#### Code Meaning

- 10-29 Time is up for contact
- 10-30 Does not conform to FCC rules
- 10-33 Emergency traffic
- 10-34 Trouble at this station
- 10-35 Confidential information
- 10-36 Correct time is
- 10-37 Wrecker needed at
- 10-38 Ambulance needed
- 10-39 Message delivered
- 10-41 Turn to channel
- 10-42 Traffic accident at
- 10-43 Traffic tie up at
- 10-44 Have a message for
- 10-45 All units within range please report
- 10-50 Break channel
- 10-60 What is next message number?
- 10-62 Unable to copy. Use phone
- 10-63 Net directed to
- 10-64 Net clear
- 10-65 Awaiting your next message/assignment
- 10-67 All units comply
- 10-70 Fire at
- 10-71 Proceed, transmission in sequence
- 10-77 Negative contact
- 10-81 Reserve hotel room for
- 10-82 Reserve room for
- 10-85 My address is
- 10-91 Talk closer to mic
- 10-93 Check my frequency on this channel
- 10-94 Give me a long count
- 10-99 Mission completed, all units secure
- 10-200 Police needed at

### **Frequency Ranges**

34

### **29 WX NW BT Specifications**

The COBRA 29 WX NW 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.

channe	15.				
CB Channel	Channel Freq. In MHz	CB Channel	Channel Freq. In MHz	WX Channel	Freq. In MHz
1	26.965	21	27.215	1	162.400
2	26.975	22	27.225	2	162.425
3	26.985	23	27.255	3	162.450
4	27.005	24	27.235	4	162.475
5	27.015	25	27.245	5	162.500
				6	162.525
6	27.025	26	27.265	7	162.550
7	27.035	27	27.275		
8	27.055	28	27.285		
9	27.065	29	27.295		
10	27.075	30	27.305		
11	27.085	31	27.315		
12	27.105	32	27.325		
13	27.115	33	27.335		
14	27.125	34	27.345		
15	27.135	35	27.355		
16	27.155	36	27.365		
17	27.165	37	27.375		
18	27.175	38	27.385		
19	27.185	39	27.395		
20	27.205	40	27.405		

GENERAL	
CHANNELS	CB - 40 CH
FREQUENCY RANGE	CB - 26.965 TO 27.405 MHZ
	WX - 162.400 TO 162.550 MHZ
FREQUENCY TOLERANCE	0.005 %
FREQUENCY CONTROL	. PLL (PHASE LOCK LOOP) SYNTHESIZER
OPERATING TEMPERATURE	
RANGE	30° C TO + 50° C
MICROPHONE	. PLUG-IN DYNAMIC
INPUT VOLTAGE	13.2VDC nom. (positive or negative ground)
CURRENT DRAIN	TRANSMIT: AM FULL MOD., 1.5A (MAXIMUM)
	RECEIVE: SQUELCHED, 0.3A;
	FULL AUDIO OUTPUT, 1.2A (NOMINAL)
	8-5/8" D X 7-9/32" W X 2-13/63" H
WEIGHT	
ANTENNA CONNECTOR	
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	
SENSITIVITY	. LESS THAN 1 μV FOR 10 dB (S+N) /N
SENSITIVITY	6 dB @ 7 KHZ, 60 dB @ 10KHZ
SENSITIVITY SELECTIVITY IMAGE REJECTION	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL
SENSITIVITY SELECTIVITY IMAGE REJECTION ADJACENT-CHANNEL REJECTION .	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL 60 dB, TYPICAL
SENSITIVITY SELECTIVITY IMAGE REJECTION ADJACENT-CHANNEL REJECTION .	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL 60 dB, TYPICAL DOUBLE CONVERSION: 1ST: 10.695 MHZ
SENSITIVITY SELECTIVITY IMAGE REJECTION ADJACENT-CHANNEL REJECTION . IF FREQUENCIES	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL 60 dB, TYPICAL DOUBLE CONVERSION: 1ST: 10.695 MHZ 2ND: 455 KHZ
SENSITIVITY SELECTIVITY IMAGE REJECTION ADJACENT-CHANNEL REJECTION . IF FREQUENCIES	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL 60 dB, TYPICAL DOUBLE CONVERSION: 1ST: 10.695 MHZ 2ND: 455 KHZ .LESS THAN 10 dB CHANGE IN AUDIO
SENSITIVITY SELECTIVITY IMAGE REJECTION ADJACENT-CHANNEL REJECTION . IF FREQUENCIES	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL 60 dB, TYPICAL DOUBLE CONVERSION: 1ST: 10.695 MHZ 2ND: 455 KHZ .LESS THAN 10 dB CHANGE IN AUDIO OUTPUT FOR INPUTS FROM 10 TO 50,000
SENSITIVITY SELECTIVITY IMAGE REJECTION ADJACENT-CHANNEL REJECTION . IF FREQUENCIES	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL 60 dB, TYPICAL .DOUBLE CONVERSION: 1ST: 10.695 MHZ 2ND: 455 KHZ .LESS THAN 10 dB CHANGE IN AUDIO OUTPUT FOR INPUTS FROM 10 TO 50,000 MICROVOLTS
SENSITIVITY SELECTIVITY IMAGE REJECTION ADJACENT-CHANNEL REJECTION . IF FREQUENCIES AUTOMATIC GAIN CONTROL (AGC)	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL 00 UBLE CONVERSION: 1ST: 10.695 MHZ 2ND: 455 KHZ .LESS THAN 10 dB CHANGE IN AUDIO OUTPUT FOR INPUTS FROM 10 TO 50,000 MICROVOLTS 40 dB
SENSITIVITY SELECTIVITY IMAGE REJECTION ADJACENT-CHANNEL REJECTION IF FREQUENCIES AUTOMATIC GAIN CONTROL (AGC) RF GAIN RANGE NOISE BLANKER	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL 00 UBLE CONVERSION: 1ST: 10.695 MHZ 2ND: 455 KHZ .LESS THAN 10 dB CHANGE IN AUDIO OUTPUT FOR INPUTS FROM 10 TO 50,000 MICROVOLTS 40 dB
SENSITIVITY SELECTIVITY IMAGE REJECTION ADJACENT-CHANNEL REJECTION IF FREQUENCIES AUTOMATIC GAIN CONTROL (AGC) RF GAIN RANGE NOISE BLANKER	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL 00 dB, TYPICAL .DOUBLE CONVERSION: 1ST: 10.695 MHZ 2ND: 455 KHZ .LESS THAN 10 dB CHANGE IN AUDIO OUTPUT FOR INPUTS FROM 10 TO 50,000 MICROVOLTS 40 dB RF TYPE .ADJUSTABLE; THRESHOLD LESS THAN 1µV
SENSITIVITY SELECTIVITY IMAGE REJECTION ADJACENT-CHANNEL REJECTION IF FREQUENCIES AUTOMATIC GAIN CONTROL (AGC) RF GAIN RANGE NOISE BLANKER SQUELCH	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL 60 dB, TYPICAL .DOUBLE CONVERSION: 1ST: 10.695 MHZ 2ND: 455 KHZ .LESS THAN 10 dB CHANGE IN AUDIO OUTPUT FOR INPUTS FROM 10 TO 50,000 MICROVOLTS 40 dB RF TYPE ADJUSTABLE; THRESHOLD LESS THAN 1μV 4 WATTS
SENSITIVITY SELECTIVITY IMAGE REJECTION ADJACENT-CHANNEL REJECTION IF FREQUENCIES AUTOMATIC GAIN CONTROL (AGC) RF GAIN RANGE NOISE BLANKER SQUELCH AUDIO OUTPUT POWER FREQUENCY RESPONSE	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL 60 dB, TYPICAL .DOUBLE CONVERSION: 1ST: 10.695 MHZ 2ND: 455 KHZ .LESS THAN 10 dB CHANGE IN AUDIO OUTPUT FOR INPUTS FROM 10 TO 50,000 MICROVOLTS 40 dB RF TYPE ADJUSTABLE; THRESHOLD LESS THAN 1µV 4 WATTS
SENSITIVITY SELECTIVITY IMAGE REJECTION ADJACENT-CHANNEL REJECTION IF FREQUENCIES AUTOMATIC GAIN CONTROL (AGC) RF GAIN RANGE NOISE BLANKER SQUELCH AUDIO OUTPUT POWER FREQUENCY RESPONSE	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL 0 dB, TYPICAL DOUBLE CONVERSION: 1ST: 10.695 MHZ 2ND: 455 KHZ .LESS THAN 10 dB CHANGE IN AUDIO OUTPUT FOR INPUTS FROM 10 TO 50,000 MICROVOLTS 40 dB .RF TYPE .ADJUSTABLE; THRESHOLD LESS THAN 1μV 4 WATTS 300 TO 3000 HZ .LESS THAN 7% @3 WATTS @ 1000 HZ
SENSITIVITY SELECTIVITY IMAGE REJECTION ADJACENT-CHANNEL REJECTION IF FREQUENCIES AUTOMATIC GAIN CONTROL (AGC) RF GAIN RANGE NOISE BLANKER SQUELCH AUDIO OUTPUT POWER FREQUENCY RESPONSE DISTORTION BUILT-IN SPEAKER	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL 0 dB, TYPICAL DOUBLE CONVERSION: 1ST: 10.695 MHZ 2ND: 455 KHZ .LESS THAN 10 dB CHANGE IN AUDIO OUTPUT FOR INPUTS FROM 10 TO 50,000 MICROVOLTS 40 dB .RF TYPE .ADJUSTABLE; THRESHOLD LESS THAN 1μV 4 WATTS 300 TO 3000 HZ .LESS THAN 7% @3 WATTS @ 1000 HZ
SENSITIVITY SELECTIVITY IMAGE REJECTION ADJACENT-CHANNEL REJECTION IF FREQUENCIES AUTOMATIC GAIN CONTROL (AGC) RF GAIN RANGE NOISE BLANKER SQUELCH AUDIO OUTPUT POWER FREQUENCY RESPONSE DISTORTION BUILT-IN SPEAKER	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL 60 dB, TYPICAL .DOUBLE CONVERSION: 1ST: 10.695 MHZ 2ND: 455 KHZ .LESS THAN 10 dB CHANGE IN AUDIO OUTPUT FOR INPUTS FROM 10 TO 50,000 MICROVOLTS .40 dB RF TYPE ADJUSTABLE; THRESHOLD LESS THAN 1μV 4 WATTS 300 TO 3000 HZ LESS THAN 7% @3 WATTS @ 1000 HZ 8 OHMS, 5W
SENSITIVITY SELECTIVITY IMAGE REJECTION ADJACENT-CHANNEL REJECTION IF FREQUENCIES AUTOMATIC GAIN CONTROL (AGC) RF GAIN RANGE NOISE BLANKER SQUELCH AUDIO OUTPUT POWER FREQUENCY RESPONSE DISTORTION DISTORTION BUILT-IN SPEAKER EXTERNAL SPEAKER (NOT SUPPLIED	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL 60 dB, TYPICAL DOUBLE CONVERSION: 1ST: 10.695 MHZ 2ND: 455 KHZ LESS THAN 10 dB CHANGE IN AUDIO OUTPUT FOR INPUTS FROM 10 TO 50,000 MICROVOLTS .40 dB RF TYPE ADJUSTABLE; THRESHOLD LESS THAN 1μV 4 WATTS 300 TO 3000 HZ LESS THAN 7% @3 WATTS @ 1000 HZ 8 OHMS, SW .8 OHMS, DISABLES INTERNAL SPEAKER
SENSITIVITY SELECTIVITY IMAGR ELECTION ADJACENT-CHANNEL REJECTION IF FREQUENCIES AUTOMATIC GAIN CONTROL (AGC) RF GAIN RANGE NOISE BLANKER SQUELCH AUDIO OUTPUT POWER FREQUENCY RESPONSE DISTORTION BUILT-IN SPEAKER EXTERNAL SPEAKER (NOT SUPPLIED PA SYSTEM	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL 60 dB, TYPICAL DOUBLE CONVERSION: 1ST: 10.695 MHZ 2ND: 455 KHZ LESS THAN 10 dB CHANGE IN AUDIO OUTPUT FOR INPUTS FROM 10 TO 50,000 MICROVOLTS .40 dB RF TYPE ADJUSTABLE; THRESHOLD LESS THAN 1μV 4 WATTS 300 TO 3000 HZ LESS THAN 7% @3 WATTS @ 1000 HZ 8 OHMS, SW .8 OHMS, DISABLES INTERNAL SPEAKER WHEN CONNECTED
SENSITIVITY SELECTIVITY IMAGE REJECTION ADJACENT-CHANNEL REJECTION IF FREQUENCIES AUTOMATIC GAIN CONTROL (AGC) RF GAIN RANGE NOISE BLANKER SQUELCH AUDIO OUTPUT POWER FREQUENCY RESPONSE DISTORTION BUILT-IN SPEAKER EXTERNAL SPEAKER (NOT SUPPLIED PA SYSTEM POWER OUTPUT	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL 60 dB, TYPICAL DOUBLE CONVERSION: 1ST: 10.695 MHZ 2ND: 455 KHZ LESS THAN 10 dB CHANGE IN AUDIO OUTPUT FOR INPUTS FROM 10 TO 50,000 MICROVOLTS 40 dB AF TYPE DJUISTABLE; THRESHOLD LESS THAN 1μV 4 WATTS 300 TO 3000 HZ LESS THAN 7% @3 WATTS @ 1000 HZ 8 OHMS; DUSABLES INTERNAL SPEAKER WHEN CONNECTED 4 WATTS INTO EXTERNAL SPEAKER
SENSITIVITY SELECTIVITY IMAGE REJECTION ADJACENT-CHANNEL REJECTION IF FREQUENCIES AUTOMATIC GAIN CONTROL (AGC) RF GAIN RANGE NOISE BLANKER SQUELCH AUDIO OUTPUT POWER FREQUENCY RESPONSE DISTORTION BUILT-IN SPEAKER EXTERNAL SPEAKER (NOT SUPPLIED PA SYSTEM POWER OUTPUT EXTERNAL SPEAKER FOR PA	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL 00 UB, IYPICAL DOUBLE CONVERSION: 15T: 10.695 MHZ 2ND: 455 KHZ .LESS THAN 10 dB CHANGE IN AUDIO OUTPUT FOR INPUTS FROM 10 TO 50,000 MICROVOLTS 40 dB RF TYPE ADJUSTABLE; THRESHOLD LESS THAN 1µV 4 WATTS 300 TO 3000 HZ LESS THAN 7% @3 WATTS @ 1000 HZ 8 OHMS; DISABLES INTERNAL SPEAKER WHEN CONNECTED 4 WATTS INTO EXTERNAL SPEAKER 8 OHMS 4 WATTS MIN.
SENSITIVITY SELECTIVITY IMAGE REJECTION ADJACENT-CHANNEL REJECTION IF FREQUENCIES AUTOMATIC GAIN CONTROL (AGC) RF GAIN RANGE NOISE BLANKER SQUELCH AUDIO OUTPUT POWER FREQUENCY RESPONSE DISTORTION BUILT-IN SPEAKER EXTERNAL SPEAKER (NOT SUPPLIED PA SYSTEM POWER OUTPUT EXTERNAL SPEAKER FOR PA	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL 60 dB, TYPICAL DOUBLE CONVERSION: 1ST: 10.695 MHZ 2ND: 455 KHZ LESS THAN 10 dB CHANGE IN AUDIO OUTPUT FOR INPUTS FROM 10 TO 50,000 MICROVOLTS .40 dB .RF TYPE DJUSTABLE; THRESHOLD LESS THAN 1μV 4 WATTS 300 TO 3000 HZ .LESS THAN 7% @3 WATTS @ 1000 HZ 8 OHMS, DISABLES INTERNAL SPEAKER WHEN CONNECTED 4 WATTS INTO EXTERNAL SPEAKER 4 WATTS INTO EXTERNAL SPEAKER 4 WATTS MIN. THE PA SPEAKER ALSO MONITORS THE
SENSITIVITY SELECTIVITY IMAGE REJECTION ADJACENT-CHANNEL REJECTION IF FREQUENCIES AUTOMATIC GAIN CONTROL (AGC) RF GAIN RANGE NOISE BLANKER SQUELCH AUDIO OUTPUT POWER FREQUENCY RESPONSE DISTORTION BUILT-IN SPEAKER EXTERNAL SPEAKER (NOT SUPPLIED PA SYSTEM POWER OUTPUT EXTERNAL SPEAKER FOR PA	6 dB @ 7 KHZ, 60 dB @ 10KHZ 80 dB, TYPICAL 60 dB, TYPICAL DOUBLE CONVERSION: 1ST: 10.695 MHZ 2ND: 455 KHZ LESS THAN 10 dB CHANGE IN AUDIO OUTPUT FOR INPUTS FROM 10 TO 50,000 MICROVOLTS .40 dB RF TYPE DJUSTABLE; THRESHOLD LESS THAN 1μV 4 WATTS 300 TO 3000 HZ LESS THAN 7% @3 WATTS @ 1000 HZ 8 OHMS; DISABLES INTERNAL SPEAKER WHEN CONNECTED 4 WATTS INTO EXTERNAL SPEAKER 8 OHMS 4 WATTS MIN. THE PA SPEAKER ALSO MONITORS THE RECEIVER; SEPARATE JACK PROVIDED

35

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### **Limited Two Year Warranty**

### **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 38.

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 two (2) years 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.

**Cobra Electronics** 

6500 West Cortland Street

Chicago, Illinois 60707

Corporation

www,cobra.com

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.

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 repairs; 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.





Replacement Microphone

Bracket

For in vehicle use

741-080-9-001

21" Base Loaded Magnet Mount Antenna

HG A1500



HG A1000





Noise Cancelina With Noise Canceling Talk Back External External Speaker Speaker HG \$500 HG \$300

37





38" Base Loaded Magnet Mount Antenna



### **Optional Accessories**

### Notes

39

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**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.

38

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





### **The CB Story**

#### If You Think You Need Service

For technical assistance, please call our Automated Help Desk which can assist you by answering the most frequently asked questions about Cobra products. (773) 889-3087 24 hours a day, 7 days a week. A Consumer Service Representative can be reached through this same number 8:00 am - 5:30 pm, Monday through Friday, Central Time. Technical assistance is also available on-line in the Frequently Asked Questions (FAQ) section at www.cobraelec.com or by e-mail to productinfo@cobra.com

#### If you think you need service call 1.773.889.3087

#### *"If your product should require factory service please call Cobra first before sending your unit in. This will ensure the fastest turn-around time on your repair."*

You may be asked to send your unit to the Cobra factory. It will be necessary to furnish the following in order to have the product serviced and returned.

1. For Warranty Repair include some form of proof-of-purchase, such as a mechanical reproduction or carbon or a sales receipt. If you send the original receipt it cannot be returned.

2. Send the entire product.

- 3. Enclose a description of what is happening with the unit. Include a typed or clearly print name and address of where the unit is to be returned.
- 4. Pack unit securely to prevent damage in transit. If possible, use the original packing material.
- 5. Ship prepaid and insured by way of a traceable carrier such as United Parcel Service (UPS) or First Class Mail: to avoid loss in transit to: Cobra Factory Service, Cobra Electronics Corporation, 6500 W. Cortland St., Chicago, IL 60707.
- 6. If the unit is in warranty, upon receipt of your unit it will either be repaired or exchanged depending on the model. Please allow approximately 3 to 4 weeks before contacting us for status. If the unit is out of warranty a letter will automatically be sent informing you of the repair charge or replacement charge. If you have any questions, please call 1.773.889.3087 for assistance.

#### **Trademark Info**

Cobra®, Dynamike®, Nothing Comes Close to a Cobra® and the snake design are registered trademarks of Cobra Electronics Corporation, USA.

Cobra Electronics Corporation<sup>™</sup> is a trademark of Cobra Electronics Corporation, USA. The Bluetooth<sup>®</sup> word mark and logo are registered trademarks owned by Bluetooth SIG, Inc. Operating Instructions for your Cobra 29 WX NW BT





Nothing Comes Close to a Cobra®













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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 WX NW BT				
<ol> <li>CB transceiver</li> </ol>	6. Operating Manual			
2. Microphone	<ol> <li>DC power cord</li> </ol>			
3 External Bluetooth <sup>®</sup> Mic	<ol><li>FCC rules</li></ol>			
<ol> <li>Transceiver bracket</li> </ol>	(not shown)			
5 Microphone bracket				

### **Controls and Indicators**

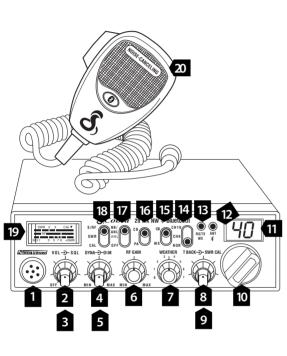
### **Our Thanks to You**

#### 1. 6-Pin Microphone Connector

- 2. Power On/Off, Volume
- 3. Squelch
- 4. Dynamike
- 5. Dimmer
- 6. RF Gain
- 7. Weather Channel Selector
- 8. Talk Back Selector
- 9. SWR Calibration
- 10. Channel Selector
- 11. LED Channel Display
- 12) ANT/Bluetooth<sup>®</sup> Indicator
- 13. RX (Receive)/TX (Transmit), WX (Weather) LED Indicator
- 14) Channel 19/Channel 9/ Normal Switch
- 15. CB/WX Weather Switch
- 16. CB/PA Switch
- 17. NB/ANL ANL Off Switch
- 18. S/RF SWR CAL Switch
- 19. Signal Strength Meter
- 20. Microphone

#### Back Side

- External Mic Jack
   Public Address Speaker Jack
- 23. External Speaker Jack
- 24. Antenna Connector
- 25. Power Jack



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T.MIC. PA.SP. EXT.S

 Thank you for purchasing the Cobra 29 WX NW 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.

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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

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