Cobra®

microTALK®

Owner's Manual

2-WAY RADIO MODEL
PR 3100 DX

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Nothing comes close to a Cobra®

English

Staying in touch with your family and friends is convenient and easy when using your microTALK® radio. Some of the many uses you will discover include: Communicating with others while hiking, biking, and working; keeping track of family and friends at a crowded public event; checking with travel companions in another car; talking with neighbors; arranging meeting spots with others while shopping at the mall.

Belt Clip

Secure your microTALK® radio while on the go.

Carrying your microTALK® radio with you is easy when using the belt clip or wrist strap.

Wrist Strap

The belt clip easily attaches to your belt, purse, or backpack. Simply squeeze the clip and place it where you prefer.

Customer Assistance

For Assistance In The U.S.A.

In this user's manual, you should find all the information you need to operate your microTALK® radio. If you require further assistance after reading this manual, Cobra® Electronics offers the following customer assistance services:

Automated Help Desk
English only. 24 hours a day, 7 days a week 773-889-3087 (phone).

Customer Assistance Operators
English and Spanish. 8:00 a.m. to 6:00 p.m. CT,
Monday through Friday (except holidays) 773-889-3087 (phone).

Questions
English and Spanish. Faxes can be received at 773-622-2269 (fax).

Technical Assistance
English only. www.cobra.com (on-line: Frequently Asked Questions).
English and Spanish. productinfo@cobra.com (e-mail).

For Assistance Outside The U.S.A.
Contact Your Local Dealer

Product Features

Wrist Strap Connector

Belt Clip

Battery Compartment

Battery Door Latch

Antenna

External Speaker/Microphone Jack

On/Off Volume Knob

Lock Button

Talk Button

Channel Up/Down Button

Backlit LCD Display

Hi•Low Power Button

Call Button

Mode Button

Light/Max Range Button

Charger Jack

Speaker/Microphone

Product Features

Features

- **2-Way Radio** With up to a eight (8) mile (13 km) range
- **22 Channels** Seven (7) shared with FRS/GMRS, seven (7) FRS only, eight (8) GMRS only
- **38 Privacy Codes**
- **Hands-Free Operation (VOX)**
- **VibrAlert® Silent Paging**
- **Ten (10) Memory Locations**
- **Signal Strength Meter**
- **Scan** Channel, privacy code, memory
- **Selectable Hi•Low Power** In GMRS
- **Backlit LCD Display**
- **Button Lock**
- **Call Alert** Ten (10) selectable tones
- **Speaker/Microphone Jack**
- **Roger Beep** Selectable On/Off
- **Battery/Power Saver**
- **Keystroke Tones** Selectable On/Off
- **Auto Squelch**
- **Maximum Range Extender**
- **Belt Clip**
- **Wrist Strap**

Backlit LCD Display

Lock Icon

Keystroke Tones Icon

Roger Beep Icon

Call Tones and VibrAlert® Icon

Signal Strength Meter Icon

Hi•Low Power Icon

CTCSS Privacy Code Numbers

Memory Location Number

Receive/Transmit Icon

Channel Numbers

Battery Level Indicator

Memory Icon

Scan Icon

Vox Icon

Power Saver Icon
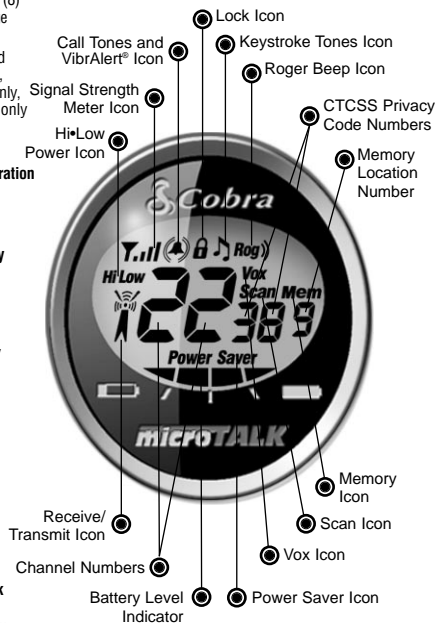
Important FCC Licensing Information

This radio operates on General Mobile Radio Service (GMRS) frequencies which require a Federal Communications Commission (FCC) license. See page 22 for licensing and other related information.

Caring For Your microTALK® Radio

Your microTALK® radio will give you years of trouble-free service if cared for properly. Handle the radio gently. Keep the radio away from dust. Never put the radio in water or in a damp place. Avoid exposure to extreme temperatures.

Batteries

To Install Or Replace Batteries:

Remove Belt Clip

Pull Down Lock Latch

Insert Batteries

1. Remove belt clip by releasing belt clip latch and sliding clip up.
2. Pull down on the battery door latch to remove the battery compartment cover.
3. Insert four (4) AAA batteries. (Always use high quality alkaline batteries.) Position batteries according to polarity markings.
4. Replace battery compartment cover and belt clip.

Contact your local Cobra® dealer or Cobra® directly for optional charger accessories.

The Basics To Get You Started

Your microTALK® radio is easy to use. To get started, simply:

1. Rotate the **On/Off Volume** knob to turn **On** your radio.
2. Press the **Channel Up** or **Channel Down** button to select a channel.

   Both radios must be tuned to the same channel/privacy code to communicate.

3. Press and hold the **Talk** button while speaking into the microphone.
4. When finished talking, release the **Talk** button and listen for a response.

Nothing comes close to a Cobra® | 1

On/Off Power

Turning On Your microTALK® Radio

To Turn On Your Radio:

1. Rotate the **On/Off Volume** knob clockwise to turn **On** your radio and adjust the volume. A series of tones will indicate the radio is **On**.

Your microTALK® radio is now in **Standby** mode, ready to receive transmissions. The radio is always in **Standby** mode, except when the **Talk**, **Call** or **Mode** buttons are pressed.

Battery Low

Battery Low

Your microTALK® radio has a battery level meter that shows when battery power is decreasing. The greater the number of ascending bars visible, the stronger the battery level. When the battery level is low, the last bar and "bALo" will flash indicating your batteries should be replaced or recharged, if using rechargeable batteries.

Battery Save Mode

Auto Battery Save

Your microTALK® radio has a unique circuit designed to extend battery life. If there are no transmissions within ten (10) seconds, the radio will automatically switch to **Battery Save** mode and the **Power Saver** icon will flash in the display. This will not affect the radio's ability to receive incoming transmissions.

Talk Button

Two (2) Inches [Five (5) cm] From Mouth

Communicating With Another Person

To Talk To Another Person:

1. Press and hold the **Talk** button.

2. With the microphone about two (2) inches [five (5) cm] from your mouth, speak in a normal voice.

3. Release the **Talk** button when you are finished talking and listen for a response.

You cannot receive incoming calls while pressing the **Talk** button.

Both radios must be tuned to the same channel/privacy code to communicate.

Channel Button

Channel Number

Channels

To Select A Channel:

1. With the radio **On**, select any of the 22 channels by pressing the **Channel Up** or **Channel Down** button.

Both radios must be tuned to the same channel to communicate.

Channels 1 through 7 are shared with FRS/GMRS. Channels 8 through 14 are FRS only. Channels 15 through 22 are GMRS only.

See page 21 for FRS/GMRS frequency allocations and compatibility charts.

Listening

Listening For A Response

When You Are Finished Talking:

1. Release the **Talk** button to receive incoming transmissions. Your microTALK® radio is always in **Standby** mode while the **Talk** or **Call** buttons are not pressed.

Volume Knob

Volume

To Adjust The Volume:

1. Rotate the **On/Off Volume** knob.

Call Button

Call Button

To Alert Another Person That You Are Calling:

1. Press and release the **Call** button.

The other person will hear a two (2) second call tone. You cannot send or receive transmissions during the two (2) second call tone.

See page 19 on how to select between ten (10) call tone settings.

Hi•Low Button

Selectable High•Low Power Output

When in close proximity to another party or during favorable conditions, you can switch from **High** to **Low Power** to extend battery life.

Hi Power Icon

This feature applies to GMRS Channels 1 through 7 and 15 through 22 only. Channels 8 through 14 operate exclusively on low power.

Low Power Icon

To Switch From High To Low Power:

1. Press and release the **Hi•Low** button.

When in high power and using Channels 1 through 7 and 15 through 22, the **Hi** icon will be visible on the display.

When in low power and when using Channels 8 through 14, the **Low** icon will be visible on the display.

Light/Max Range

Display Illumination

To Illuminate Your Display:

1. Press and release the **Light/Max Range** button to illuminate the display for ten (10) seconds.

Auto Squelch/Maximum Range

Your microTALK® radio is equipped with **Auto Squelch**, which automatically shuts **Off** weak transmissions and unwanted noise due to terrain, conditions, or if you've reached your **Maximum Range** limit.

You can temporarily turn **Off** auto squelch or turn **On** maximum range extender, allowing all signals to be received and extending the maximum range of your radio.

Light/Max Range

To Temporarily Turn Off Auto Squelch:

1. Press the **Light/Max Range** button less than five (5) seconds.

If you hear two (2) beeps, you have turned the maximum range extender **On** (see below).

To Turn Maximum Range Extender On:

1. Press and hold the **Light/Max Range** button for at least five (5) seconds until you hear two (2) beeps which indicates the maximum range extender is **On**.

To Turn Maximum Range Extender Off:

1. Press and release the **Light/Max Range** button or change channels.

Lock Function

The **Lock** button locks the **Channel**, **Mode**, and **Hi•Low Power** buttons to prevent accidental operation.

Lock Button

To Turn The Lock Button On Or Off:

1. Press and hold the **Lock** button for two (2) seconds.

Lock Mode

A double beep sound is used to confirm your lock **On** or **Off** request. When in **Lock** mode, the **Lock** icon will be displayed.

Speaker/Microphone Jack

Your microTALK® radio can be fitted with an external **Speaker/ Microphone**, freeing your hands for other tasks. See the accessories order form section for ordering information. Only Cobra® authorized accessories are recommended.

Speaker/Microphone

To Attach Your Speaker/Microphone:
1. Open the **Speaker/Microphone** tab on top of your microTALK® radio.
2. Insert the plug into the speaker/ microphone jack.

Signal Strength

Signal Strength Meter

Your microTALK® radio has a **Signal Strength Meter** that shows the strength of your incoming and outgoing transmissions. The ascending bars next to the signal strength indicate the strength of the signal. The greater the number of bars visible, the stronger the signal. The fewer number of bars visible, the weaker the signal.

microTALK® Range

Your microTALK® radio has a range of up to eight (8) miles (13 km). Your range will vary depending on terrain and conditions.

Maximum Range

In flat, open country your radio will operate at maximum range.

Buildings and foliage in the path of the signal can reduce the range of the radio.

Reduced Range

Dense foliage and hilly terrain will further reduce the range of the radio.

On FRS Channels 8 through 14, your radio automatically switches to low power, which will limit the range the radio can communicate.

Reduced Range

Remember, you can achieve maximum range by using maximum range extender. See page 5 for details.

Scrolling Through Mode Functions

By scrolling through the **Mode** functions, you will be able to select or turn **On** preferred features of your microTALK® radio. When scrolling through the **Mode** functions, your radio features will be displayed in the same predetermined order:

Mode Button

Set Privacy Codes
Set VOX On/Off
Set VOX Sensitivity Level
Set Memory Locations
Set Channel Scan
Set Privacy Code Scan
Set Memory Location Scan
Set VibrAlert® and/or Call Alert
Set Call Tones
Set Roger Beep On/Off
Set Keystroke Tones On/Off

Scroll through the mode functions by pressing the **Mode** button or, at any point, press the **Talk** button to return to **Standby** mode.

CTCSS Privacy Codes

CTCSS (Continuous Tone Coded Squelch System) is an advanced tone coding system allowing you to select one (1) of 38 privacy codes to reduce interference from other users on the channel.

> If you are using a privacy code, both radios must be tuned to the same channel and privacy code to communicate. Each channel will remember the last privacy code you selected.

Mode Button

To Select A Privacy Code:

1. After selecting a channel, press the **Mode** button until the small numbers next to the channel number flashes on the display.

Privacy Code

2. Press the **Channel Up** or **Channel Down** button to select a privacy code. You can hold the **Up** or **Down** button for fast advance.

3. When your desired privacy code is displayed, choose one (1) of the following:

Channel Button

   a. Press the **Mode** button to enter the new setting and proceed to other functions.

   b. Press the **Lock** button to enter the new setting and return to **Standby** mode.

   c. Do not press any buttons for 15 seconds to enter the new setting and return to **Standby** mode.

Voice Activated Transmit (VOX)

In **VOX** mode, your microTALK® radio can be used "hands-free," automatically transmitting when you speak. You can set the **VOX** sensitivity level to fit the volume of your voice and avoid transmissions triggered by background noise.

Mode Button

To Turn VOX Mode On Or Off:

1. Press the **Mode** button until the **VOX** icon flashes on the display. The current **On** or **Off** setting is displayed.

VOX Icon

2. Press the **Channel Up** or **Channel Down** button to turn **VOX On** or **Off**.

3. Choose one (1) of the following:

Channel Button

   a. Press the **Mode** button to enter the selected **On** or **Off** setting and proceed to other functions.

   b. Press the **Lock** button to enter the selected **On** or **Off** setting and return to **Standby** mode.

Mode Button

To Set The Sensitivity:

1. Press the **Mode** button until the **VOX** icon flashes and the current sensitivity level is displayed.

VOX Sensitivity Level

> The current sensitivity level is displayed with letters "LE" and a Number 01 through 05, with Number 05 being the most sensitive level and Number 01 being the least sensitive level.

Channel Button

2. Press the **Channel Up** or **Channel Down** button to change the setting.

3. Choose one (1) of the following:

   a. Press the **Mode** button to enter the selected setting and proceed to other functions.

   b. Press the **Lock** button to enter the selected setting and return to **Standby** mode.

Ten (10) Memory Locations

Your microTALK® radio has **Ten (10) Memory Locations** for storing your most frequently used channels and channel/privacy codes. These **Memory Locations** can be selected individually or can be scanned. (See page 17 for memory location scan.)

Mode Button

To Program A Memory Location:

1. Press the **Mode** button until the **Memory** icon and the memory location flash on the display.

2. Press the **Channel Up** or **Channel Down** button to select the memory location (0 through 9).

Memory Icon

If a location has been programmed before, its associated channel/privacy code will be shown on the display.

Channel Button

3. Press the **Lock** button to enter a new memory location or edit an already programmed memory location. The channel numbers will flash on the display.

Lock Button

4. Press the **Channel Up** or **Channel Down** button to select a channel (1 through 22).

5. Press the **Lock** button. The privacy code numbers will flash on the display.

6. Press the **Channel Up** or **Channel Down** button to select a privacy code (0 to 38).

7. Choose one (1) of the following:

   a. Press the **Lock** button to enter the channel/privacy code in the selected memory location and return to the beginning of memory location options.

   b. Press the **Mode** button to enter the channel/privacy code in the selected memory location and proceed to other functions on the channel/privacy code displayed before you entered mode functions.

   c. Press the **Talk** button to enter the channel/privacy code in the selected memory location and return to **Standby** mode on the selected memory location.

While setting a memory location, if you do not press any buttons for 15 seconds, your radio will automatically return to **Standby** mode on the channel/privacy code displayed before you entered mode functions.

Mode Button

To Recall A Stored Memory Channel Location:

1. Press the **Mode** button until the **Memory** icon and the memory location number flash on the display.

Memory Icon

2. Press the **Channel Up** or **Channel Down** button to select a memory location (0 through 9).

If a location has been programmed before, its associated channel/privacy code will be shown on the display.

Channel Button

3. Press the **Talk** button to return to **Standby** mode on the selected memory location.

Pressing the **Lock** button will put you in "program a memory location."

While recalling a stored memory location, if you do not press any buttons for 15 seconds, your radio will automatically return to **Standby** mode on the channel/privacy code displayed before you entered mode functions.

Mode Button

mode

Memory Icon

Channel Button

Lock Button
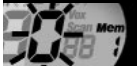
lock

Channel 0

To De-Program A Memory Location:

1. Press the **Mode** button until the **Memory** icon and the memory location flash on the display.

2. Press the **Channel Up** or **Channel Down** button to select the memory location (0 through 9).

> If a location has been programmed before, its associated channel/privacy code will be shown on the display.

3. Press the **Lock** button. The channel numbers will flash on the display.

4. Press the **Channel Up** or **Channel Down** button to select Channel 0.

5. Choose one (1) of the following:

 a. Press the **Lock** button to enter the channel/privacy code in the selected memory location and return to the beginning of memory location options.

 b. Press the **Mode** button to enter the channel/privacy code in the selected memory location and proceed to other functions on the channel/privacy code displayed before you entered mode functions.

While de-programming a memory location, if you do not press any buttons for 15 seconds, your radio will automatically return to **Standby** mode on the channel/privacy code displayed before you entered mode functions.

Channel Scan •

Your microTALK® radio can automatically scan channels.

Mode Button

mode

Scanning Channels

Channel Button

To Scan Channels:

1. Press the **Mode** button until the **Scan** icon and the channel numbers flash on the display.

2. Press the **Channel Up** or **Channel Down** button to begin scanning channels.

> The radio ignores specific privacy codes while scanning channels.

The **Scan** icon will continue to be displayed when scan is **On**. Your radio will continue to scan all channels and stop if an incoming transmission is detected. Your radio will remain on that channel for ten (10) seconds.

While setting channel scan, if you do not press any buttons for 15 seconds, your radio will automatically return to **Standby** mode on the channel or channel/privacy code displayed before you entered mode functions.

**During Channel Scan (while receiving an incoming transmission), You Can Choose From The Following:**

a. Press and hold the **Talk** button to communicate on that channel. Your radio will remain on that channel and return to **Standby** mode.

b. Press the **Channel Up** or **Channel Down** button to resume scanning channels.

If you press the **Talk** button while scanning and not within ten (10) seconds of receiving a transmission, you will transmit on the channel on which you last received a transmission. This will return the radio to **Standby** mode.

If you do not press any button within ten (10) seconds, your radio will automatically resume scanning channels.

During Channel Scan (while not receiving a transmission), You Can Choose From The Following:

a. Press and hold the **Talk** button to communicate on the channel or channel/privacy code that was displayed before you entered mode functions or the channel on which, during scanning, you last received a transmission. This will return the radio to **Standby** mode.

b. Press the **Mode** button to proceed to set privacy code scan on the channel that was either displayed before you entered mode functions or on which, during channel scanning, you last received a transmission (see page 15 for further details).

c. Press the **Lock** button to return to **Standby** mode on the channel/privacy code that was displayed before you entered mode functions or the channel on which, during scanning, you last received a transmission.

Privacy Code Scan

Your microTALK® radio can automatically scan the **Privacy Codes** (00 through 38) within one (1) channel.

Select Channel

Mode Button

Scan Privacy Codes

Channel Button

To Scan Privacy Codes:

1. While in **Standby** mode, press the **Channel Up** or **Channel Down** button to choose the channel on which you wish to scan privacy codes.

2. Press the **Mode** button until the **Scan** icon and the privacy code numbers flash on the display.

3. Press the **Channel Up** or **Channel Down** button to begin scanning privacy codes within the channel you selected.

The **Scan** icon will continue to be displayed when privacy code scan is **On**. Your radio will continue to scan privacy codes and stop as an incoming transmission is detected. Your radio will remain on that channel/privacy code for ten (10) seconds.

While setting privacy code scan, if you do not press any buttons for 15 seconds, your radio will automatically return to **Standby** mode on the channel/privacy code that was displayed before you entered mode functions.

During Privacy Code Scan (while receiving an incoming transmission), You Can Choose From The Following:

a. Press and hold the **Talk** button to communicate on that channel/privacy code. Your radio will remain on that channel/privacy code and return to **Standby** mode.

b. Press the **Channel Up** or **Channel Down** button to resume scanning privacy codes.

If you press the **Talk** button while scanning and not within ten (10) seconds of receiving a transmission, you will transmit on the channel/privacy code on which you last received a transmission. This will return the radio to **Standby** mode.

If you do not press any button within ten (10) seconds, your radio will automatically resume scanning privacy codes.

During Privacy Code Scan (while not receiving a transmission), You Can Choose From The Following:

a. Press and hold the **Talk** button to communicate on the channel/privacy code that was displayed before you entered mode functions or the channel/privacy code on which, during scanning, you last received a transmission. This will return the radio to **Standby** mode.

b. Press the **Mode** button to proceed to set memory location scan (see page 17 for further details).

c. Press the **Lock** button to return to **Standby** mode on the channel/privacy code that was displayed before you entered mode functions or the channel/privacy code on which, during scanning, you last received a transmission.

Memory Location Scan

Your microTALK® radio can automatically scan up to ten (10) programmed **Memory Locations**.

> If there are one (1) or fewer memory locations programmed in your radio, the scan memory locations option will not be available. To program at least two (2) memory locations, see program memory locations on page 10.

Mode Button

To Scan Memory Locations:

1. Press the **Mode** button until the **Scan** icon, **Memory** icon and the memory location number flashes on the display.

Scanning Locations

2. Press the **Channel Up** or **Channel Down** button to begin scanning memory locations.

The **Scan** icon and the **Memory** icon will continue to be displayed when memory location scan is **On**. Your radio will continue to scan memory locations and stop if an incoming transmission is detected. Your radio will remain on that memory location for ten (10) seconds.

Channel Button

While setting memory location scan, if you do not press any buttons for 15 seconds, your radio will automatically return to **Standby** mode on the channel/privacy code displayed before you entered mode functions.

During Memory Location Scan (while receiving an incoming transmission), You Can Choose From The Following:

a. Press and hold the **Talk** button to communicate on that memory location. Your radio will remain on that memory location and return to **Standby** mode.

b. Press the **Channel Up** or **Channel Down** button to resume scanning memory locations.

If you press the **Talk** button while scanning and not within ten (10) seconds of receiving a transmission, you will transmit on the memory location on which, during scanning, you last received a transmission. This will return the radio to **Standby** mode.

If you do not press any button within ten (10) seconds, your radio will automatically resume scanning memory locations.

During Memory Location Scan (while not receiving a transmission), You Can Choose From The Following:

a. Press and hold the **Talk** button to communicate on the channel/privacy code that was displayed before you entered mode functions or memory location on which, during scanning, you last received a transmission. This will return the radio to **Standby** mode.

b. Press the **Mode** button to proceed to other functions.

c. Press the **Lock** button to return to **Standby** mode on the channel/privacy code that was displayed before you entered mode functions or the memory location on which, during scanning, you last received a transmission.

To reduce the number of memory locations being scanned, you may deprogram any unwanted locations. (See page 12 to de-program a memory location.)

VibrAlert® And Call Tones

Your microTALK® radio can alert you to incoming signals by sounding an audible call tone, by vibrating silently, or both.

Mode Button

To Change Call Settings:

1. Press the **Mode** button until the **Call Setting** icon flashes on the display. The current setting (vibrate + ring, vibrate only, or ring only) is displayed.

Channel Button

2. Press the **Channel Up** or **Channel Down** button to change the call setting.

3. Choose one (1) of the following:

a. Press the **Mode** button to enter the new setting and proceed to other functions.

b. Press the **Lock** button to enter the new setting and return to **Standby** mode.

VibrAlert® + Ring

VibrAlert® Only

Ring Only

Ten (10) Call Tone Settings

You can choose between ten (10) different **Call Tone** settings to transmit a unique call alert.

Mode Button

To Change A Call Tone Setting:

1. Press the **Mode** button until the letter "C" and the current call tone Number (01 through 10) is displayed.

Call Tone Setting

2. Press the **Channel Up** or **Channel Down** button to hear the other call tone settings.

3. Choose one (1) of the following:

a. Press the **Mode** button to enter the new setting and proceed to other functions.

b. Press the **Lock** button to enter the new setting and return to **Standby** mode.

Channel Button

Roger Beep Confirmation Tone

Your listener will hear an audible tone when you release the **Talk** button. This alerts the other party that you are finished talking and it is OK for them to speak.

Mode Button

To Turn Roger Beep On Or Off:

1. Press the **Mode** button until the **Roger Beep** icon flashes on the display. The current **On** or **Off** setting is displayed.

Roger Beep On

2. Press the **Channel Up** or **Channel Down** button to select roger beep **On** or **Off**.

3. Choose one (1) of the following:

   a. Press the **Mode** button to enter the new setting and proceed to other functions.

Channel Button

   b. Press the **Lock** button to enter the new setting and return to **Standby** mode.

Keystroke Tones

With **Keystroke Tones** turned **On**, your radio will sound beeps each time you press a button or change a setting.

Mode Button

To Change Keystroke Tones:

1. Press the **Mode** button until the **Keystroke Tones** icon flashes on the display. The current **On** or **Off** setting is displayed.

Keystroke Tones On

2. Press the **Channel Up** or **Channel Down** button to turn keystroke tones **On** or **Off**.

3. Choose one (1) of the following:

   a. Press the **Mode** button to enter the new setting and return to **Standby** mode.

Channel Button

   b. Press the **Lock** button to enter the new setting and return to **Standby** mode.

General Specifications

A. FRS/GMRS Frequency Allocation and Compatibility

Important: Please note that Cobra® GMRS models with 15 Channels may designate different channel numbers for the same frequency. For example, a Cobra® 15 Channel GMRS model would need to be tuned to Channel 11 in order to communicate with a 22 Channel GMRS tuned to Channel 15. Please refer to the chart below for channel/ frequency number compatibility.

A = Channel No. For 22 Channel GMRS Models
B = Channel No. For 15 Channel GMRS Models
C = Type of Radio Service
D = Frequency in MHz
E = Power in Watts
  a = 2.0/0.5 (selectable)
  b = 0.5

A	B	C	D	E
1	1	FRS/GMRS	462.5625	a
2	2	FRS/GMRS	462.5875	a
3	3	FRS/GMRS	462.6125	a
4	4	FRS/GMRS	462.6375	a
5	5	FRS/GMRS	462.6625	a
6	6	FRS/GMRS	462.6875	a
7	7	FRS/GMRS	462.7125	a
8		FRS	467.5625	b
9		FRS	467.5875	b
10		FRS	467.6125	b
11		FRS	467.6375	b
12		FRS	467.6625	b
13		FRS	467.6875	b
14		FRS	467.7125	b
15	11	GMRS	462.5500	a
16	8	GMRS	462.5750	a
17	12	GMRS	462.6000	a
18	9	GMRS	462.6250	a
19	13	GMRS	462.6500	a
20	10	GMRS	462.6750	a
21	14	GMRS	462.7000	a
22	15	GMRS	462.7250	a

B. Receiver

	Unit	Nominal
1. Sensitivity		
For 12 dB SINAD . . . . dBm		-121
For Call Signal Detection . . . . dBm		-121
2. Max. Audio Output		
@ 10% THD . . . . mW		200
3. Max. S/N Ratio		
@ 1mV RF Input . . . . dB		50
4. Squelch		
a) Sensitivity . . . . dBm		-121
b) Attack Time . . . . mS		150
c) Closing Time . . . . mS		200
5. Audio Frequency Response		
@ 300 Hz . . . . dB		-3
@ 2500 Hz . . . . dB		-10
6. Signal Displacement BW . . . . +/-kHz		5
7. Adjacent Channel Rejection . . . dB		60
8. Intermodulation Rejection . . . . dB		65
9. Spurious Response Rejection. . dB		55

C. Transmitter

	Unit	Nominal
1. Power		
GMRS . . . . .W		2
FRS Only . . . . .mW		500
2. Carrier Frequency Stability . . . ±Hz		500
3. Modulation Limiting . . . . kHz		2.5
4. Carrier Attack Time . . . . mS		80
5. Audio Frequency Response		
@ 300 Hz . . . . dB		-12
@ 2500 Hz . . . . dB		+6
6. Audio Distortion . . . . %		3
7. Hum Noise . . . . dB		30
8. Transient Frequency Behavior		
a) TX On . . . . mS		30
b) TX Off . . . . mS		5

D. Power Supply

	Unit	Nominal
1. Battery Life (5:5:90 RATIO)		
With Alkaline Batteries . . . . HR		24
2. Battery Operating Range V		4.2 - 6.0

IMPORTANT NOTICE: FCC LICENSE REQUIRED

This 2-way radio operates on GMRS (General Mobile Radio Service) frequencies which require an FCC (Federal Communications Commission) license. A user must be licensed prior to operating on Channels 1 through 7 or 15 through 22, which comprise the GMRS channels of this radio. Serious penalties could result for unlicensed use of GMRS channels, in violation of FCC rules, as stipulated in the Communications Act's Sections 501 and 502 (amended).

Licensed users will be issued a call sign by the FCC, which should be used for station identification when operating this radio. GMRS users should also cooperate by engaging in permissible transmissions only, avoiding channel interference with other GMRS users, and being prudent with the length of their transmission time.

For licensing information and application forms, please call the FCC Hotline at 800-418-FORM. Request form #159 and form #605. Questions regarding the license application should be directed to the FCC at 888-CALL-FCC. Additional information is available on the FCC's website at www.fcc.gov.

Safety Information For microTALK® Radios

Your wireless handheld portable transceiver contains a low power transmitter. When the **Talk** button is pushed, it sends out radio frequency (RF) signals. The device is authorized to operate at a duty factor not to exceed 50%. In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for handheld wireless devices.

Important:

FCC RF Exposure Requirements: For body-worn operation, this radio has been tested and meets the FCC RF exposure guidelines when used with Cobra® accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines. Use only the supplied antenna. Unauthorized antennas, modifications, or attachments could damage the transmitter and may violate FCC regulations.

Normal Position:

Hold the transmitter approximately two (2) inches from your face and speak in a normal voice, with the antenna pointed up and away.

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.

FCC Warnings: Replacement or substitution of transistors, regular diodes or other parts of a unique nature, with parts other than those recommended by Cobra® may cause a violation of the technical regulations of part 95 of the FCC rules, or violation of type acceptance requirements of part 2 of the rules.

Product Service Questions

If you have any questions about operation or installing your new Cobra® product, or if you are missing parts…

Please call Cobra® first! DO NOT RETURN THIS PRODUCT TO THE STORE! See customer assistance on page A1.

For Products Purchased In The U.S.A.

If your product should require factory service, please call Cobra® first before sending your radio. This will ensure the fastest turn-around time on your repair. You may be asked to send your radio to the Cobra® factory. It will be necessary to furnish the following 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 of 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 radio. Include a typed or clearly printed name and address of where the radio is to be returned.

4) Pack radio 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 West Cortland Street, Chicago, Illinois 60707 U.S.A.

6) If the radio is in warranty, upon receipt of your radio it will either be repaired or exchanged depending on the model.

Please allow approximately three (3) to four (4) weeks before contacting Cobra® for status. If the radio 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 773-889-3087 for assistance.

For Products Purchased Outside The U.S.A.

Please contact your local dealer for product service information.

Limited 1-Year Warranty

For Products Purchased In The U.S.A.

Cobra® Electronics Corporation warrants that its Cobra® GMRS radios, and the component parts thereof, will be free of defects in workmanship and materials for a 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 GMRS 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 may 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 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.

For Products Purchased Outside The U.S.A.

Please contact your local dealer for warranty information.

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®.

Ordering From U.S.A.
Call 773-889-3087 for pricing or visit www.cobra.com.

For credit card orders, complete and return this order form to fax number 773-622-2269. Or call 773-889-3087 (Press 1 from the main menu) 8:00 a.m. to 6:00 p.m. CT, 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

Name

Address (No P.O. Boxes)

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*For AK, HI and PR add additional $26.95 for FedEx Next Day or $10.95 for FedEx 2nd Day. Excludes weekends and holidays shipments.
Please allow two (2) to three (3) weeks for delivery in the U.S.A.
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