

Cobra® microTALK

Owner's Manual



2-WAY RADIO MODEL

PR4300WX

Printed in China
Part No. 480-175-P

Nothing Comes Close To A Cobra®

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English

Introduction



Making Life Easier & Safer

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).

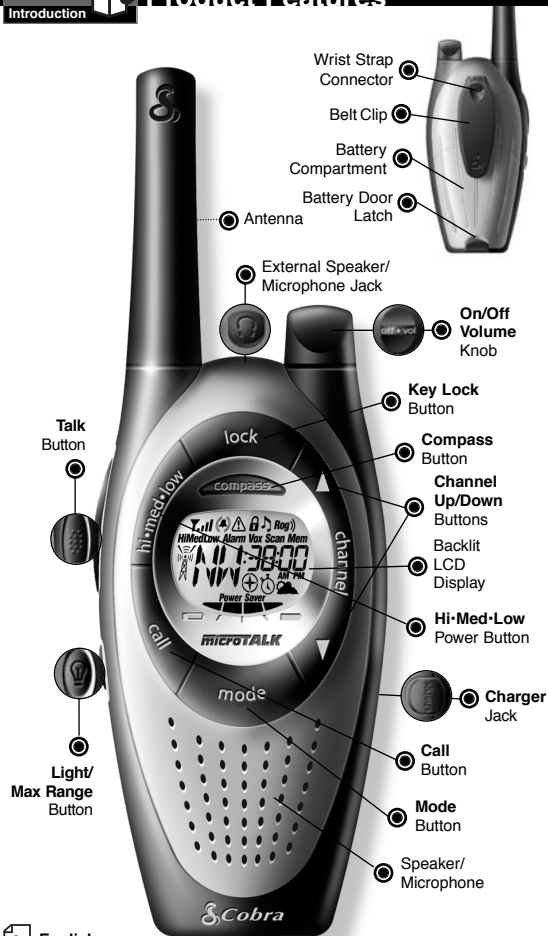
For Assistance Outside the U.S.A.

Contact Your Local Dealer

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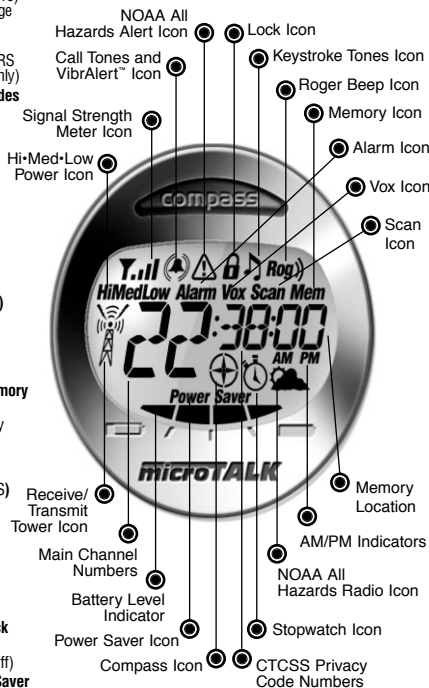
English



Features

- **Two-Way Radio** with up to a ten (10) mile (16 km) range
- **22 Channels** (7 shared with FRS/GMRS, 7 FRS only, 8 GMRS only)
- **38 PRIVACY Codes**
- **10 CHANNEL NOAA All Hazards Radio**
- **NOAA All Hazards Alert**
- **8-Point Digital Compass**
- **Clock/Alarm**
- **Stopwatch** with Split-timer
- **Hands-Free Operation (VOX)**
- **VibrAlert™ Silent Paging**
- **Signal Strength Meter**
- **10 Channel Memory**
- **Scan** (channel, privacy code, memory)
- **Selectable Hi-Med-Low Power** (in GMRS)
- **Backlit LCD Display**
- **Call Alert** (10 selectable tones)
- **Lock**
- **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



Important FCC Licensing Information

This radio operates on General Mobile Radio Service (GMRS) frequencies which require a Federal Communications Commission (FCC) license. See page 26 for licensing and other related information.

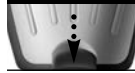
Caring for Your microTALK® Radio

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.

Remove Belt Clip



Pull Down Lock Latch



Insert Batteries



Batteries

To Install or Replace Batteries:

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

See information on page 28 for optional charger accessories ordering instructions.

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 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.

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 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 **Power Saver** icon will flash in the display. This will not affect the radio's ability to receive incoming transmissions.

Talk Button



2 inches (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 (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 to communicate.

Mode Button

**Scrolling Through the Mode Function**

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

- Set Privacy Codes
- Set NOAA All Hazards Radio Channel
- Set NOAA All Hazards Alert
- Set Stopwatch
- Set Clock
- Set Alarm
- Set VOX On/Off
- Set VOX Sensitivity Level
- Set Memory Location
- Set Channel Scan
- Set Privacy Code Scan
- Set Memory Scan
- Set VibrAlert® and/or Call Alert
- Set Call Tones
- Set "Roger Beep" On/Off
- Set Keystroke Tones On/Off



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 25 for FRS/GMRS frequency allocations and compatibility charts.

38 Privacy Codes

**CTCSS Privacy Codes**

CTCSS (Continuous Tone Coded Squelch System) is an advanced tone coding system allowing you to select one 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 flash on the LCD.
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:
 - 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**.

Privacy Code



Channel Button



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-Med-Low Button

**Selectable High•Medium•Low Power Output**

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



This feature applies to GMRS channels 1 through 7 and 15 through 22 only. Channels 8 through 14 operate exclusively on Low Power.

Hi Power Icon

**To Switch from High to Medium to Low Power:**

1. Press and release the **Hi•Med•Low** button. When in High Power and using channels 1 through 7 and 15 through 22, the **Hi** icon will be visible in the LCD display. When in Medium Power and using channels 1 through 7 and 15 through 22, the **Med** icon will be visible in the LCD. When in Low Power and when using channels 8 through 14, the **Low** icon will be visible in the LCD display.

Med Power Icon



Low Power Icon



Hazards Radio Icon



NOAA* All Hazards Radio Channels and Alert

You can use your microTALK® radio to listen to NOAA All Hazards Radio channels transmitting in your area.

Alert Icon



You can also program your microTALK® radio to sound a tone alert when a local NOAA channel activates an Emergency All Hazards Alert. This will warn you of weather, chemical, and other civilian emergencies.

Mode Button



To Listen to All Hazards Radio channels:

1. Press the **Mode** button until the Weather (All Hazards Radio) icon, the currently selected All Hazards Radio channel, and signal strength are displayed.
2. Use the **Channel Up** or **Channel Down** button to change All Hazards Radio channels.
3. Weather (All Hazards Radio) icon will continue to be displayed when All Hazards Radio is On.
 - a. Press the **Mode** button to proceed to other functions.
 - b. Press the **Lock** button to exit All Hazards Radio channel mode and return to **Standby Mode**.

Hazards Radio Icon



Channel Button



Mode Button



To Turn On All Hazards Alert:

1. Press the **Mode** button until the Alert icon flashes and the current On or Off setting is displayed.
2. Press the **Channel Up** or **Channel Down** button to turn All Hazards Alert On or Off.
3. Alert icon will continue to be displayed when All Hazards Alert is On.
 - a. Press the **Mode** button to enter the new setting and proceed to other functions.
 - b. Press the **Lock** button or do not press any buttons for 15 seconds to enter the new setting and return to **Standby Mode**.
 - c. Press the **Talk** button to enter the new settings and return to **Standby Mode**.

Alert Icon



Channel Button



Stopwatch

You can use the time keeping feature of your microTALK® radio as a stopwatch, including the display of split times. After starting the timer, you can view an interim "split" time while the first timer continues to run.

Mode Button



To Activate Stopwatch Mode:

1. Press the **Mode** button until the Stopwatch icon and "00:00:00" is displayed in the LCD.
2. Press the **Channel Up** button to start the stopwatch.
3. Press the **Channel Up** button again to stop the stopwatch.

Stopwatch Icon



To restart and stop the stopwatch, repeat step 2 and 3.

Channel Up



4. Press the **Mode** button to exit **Stopwatch Mode** and proceed to other functions.

Mode Button



To Activate Split-Time in Stopwatch Mode:

1. Press the **Mode** button until the Stopwatch icon and "00:00:00" is displayed in the LCD.
2. After starting the stopwatch (see above), press the **Channel Down** button to start the split-time timer. The display will stop, but the stopwatch will continue in the background.
3. Press the **Channel Down** button to return to the stopwatch. (To stop the stopwatch, see above.)

Stopwatch Icon



To restart and stop the Split-Timer, repeat step 2 and 3.

Channel Down



4. Press the **Mode** button to exit **Stopwatch Mode** and proceed to other functions.

Lock Button



To reset the display to "00:00:00," press the **Lock** button.

While in **Stopwatch Mode**, your microTALK® radio will alert you to incoming calls, but the LCD will continue to show the stopwatch display. You can also transmit as normal with the **Talk** button or in **VOX Mode**. When you do, the LCD will automatically return to normal display. Once you have finished transmitting, the radio will automatically return to **Stopwatch Mode**.



The Compass operation cannot be used while in **Stopwatch Mode**.

Mode Button

**Clock**

Your microTALK® radio displays the current time and appropriate AM/PM indication.

To Activate Clock Mode:

1. Press the **Mode** button until the clock is displayed.
2. Press the **Mode** button to exit **Clock Mode** and proceed to other functions.

To Set the Clock:

1. While in **Clock Mode**, press the **Lock** button. The hour will flash on the display.
2. Press the **Channel Up** or **Channel Down** button to set the hour.
3. Repeat steps 1 and 2 to set minutes and AM/PM.
4. Press the **Mode** button to exit the Set Clock feature and proceed to other functions.

While in **Clock Mode**, your microTALK® radio will alert you to incoming calls, but the LCD will continue to show the Clock display. You can also transmit as normal with the **Talk** button or in **VOX Mode**. When you do, the LCD will automatically return to normal display. Once you have finished transmitting, the radio will automatically return to **Clock Mode**.



The Compass operation cannot be used while in **Clock Mode**.

Mode Button

**Alarm**

You can use the time keeping feature of your microTALK® radio as an alarm.

To Activate Your microTALK® Radio Alarm:

1. Press the **Mode** button until the Alarm icon flashes and the current On or Off setting is displayed.
2. Press the **Channel Up** or **Channel Down** button to turn the alarm On or Off.

To Set the Alarm:

1. Press the **Mode** button until the Alarm icon flashes and the current On or Off setting is displayed.
2. Press the **Lock** button. The hour will flash.
3. Press the **Channel Up** or **Channel Down** button to set the hour.
4. Repeat steps 2 and 3 to set minutes and AM/PM.
5. a. After setting AM/PM, press the **Lock** button to enter the Alarm time, turn Alarm setting On and to return to **Standby Mode**.
b. Press the **Mode** button to enter the Alarm time, turn Alarm setting On and proceed to other functions.
c. Press the **Talk** button to enter the Alarm time, turn Alarm setting On and return to **Standby Mode**.

Alarm Icon



Mode Button



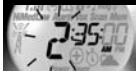
Alarm Icon



Lock Button



Alarm Set Hour



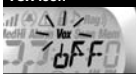
Channel Button



Mode Button



VOX Icon



Channel Button



VOX Sensitivity Level

**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.

To Turn VOX Mode On or Off:

1. Press the **Mode** button until the VOX icon flashes on the LCD. The current On or Off setting is displayed.
2. Press the **Channel Up** or **Channel Down** button to turn VOX On or Off.
3. 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**.

To Set the Sensitivity:

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



The current sensitivity level is displayed with letters LE and a number 1 through 5, 5 being the most sensitive level and 1 being the least sensitive level.

2. Press the **Channel Up** or **Channel Down** button to change the setting.
3. 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**.

10 Channel Memory

Your microTALK® radio has ten (10) memory locations (1 through 10) for storing your most frequently used channels and privacy codes. These memory channels can be selected individually or can be scanned (see Using Scan, page 18).

Mode Button



Memory Icon



Lock Button



Channel Button

**To Program Locations:**

1. Press the **Mode** button until the Memory icon and the memory channel location (1 through 10) flashes on the display screen.
 2. Press the **Channel Up** or **Channel Down** button to set the memory channel location (1 through 10).
 3. Press the **Lock** button to enter the memory channel location. The channel numbers will flash.
 4. Press the **Channel Up** or **Channel Down** button to set the channel (1 through 22).
 5. Press the **Lock** button to enter the channel setting. The privacy code numbers will flash.
 6. Press the **Channel Up** or **Channel Down** button to set the privacy code (00 through 38).
 7. Press the **Lock** button to enter the privacy code setting.
 8. a. Press the **Mode** button to enter the memory channel setting and proceed to other functions.
b. Press the **Talk** button to enter the memory channel setting and return to **Standby Mode**.
- To clear or un-program a memory location, set both the channel and the privacy code to “00.”

Mode Button



Memory Icon



Channel Button

**To Recall a Stored Memory Channel Location:**

1. Press the **Mode** button until the Memory icon and the memory channel location (1 through 10) flashes on the display.
2. Press the **Channel Up** or **Channel Down** button to select a memory channel location.
3. a. Press the **Talk** button to transmit on the selected memory channel and return to **Standby Mode** on that memory channel.
b. Press the **Mode** button to exit the **Memory Mode** without changing the memory channel setting and proceed to other functions.

Scan

Your microTALK® radio can automatically scan main channels (1 through 22) or the privacy codes (00 through 38) within one (1) main channel, or memory locations.

Mode Button



Scanning Channels



Channel Button

**To Scan Main Channels:**

1. Press the **Mode** button until the Scan icon and the main channel number flashes on the display.
2. Press the **Channel Up** or **Channel Down** button to begin scanning the main channels.



The radio ignores privacy codes while scanning main channels.

3. The Scan icon will continue to be displayed when scan is On. Your radio will continue to scan all main channels and stop if an incoming transmission is detected. Your radio will remain on that channel for ten (10) seconds. During this time, you can:
 - a. Press and hold the **Talk** button to communicate with others. 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.
 - c. Press the **Mode** button to proceed to privacy code scanning (see page 17 for further details).

Channel Button



Select Channel



Mode Button



Scan Privacy Codes



If you press the **Talk** button while scanning and not within ten (10) seconds of receiving transmission, you will transmit on the last channel you transmitted or received on.

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

To Scan Privacy Codes:

1. While in **Standby Mode**, press the **Channel Up** or **Channel Down** button to choose the main channel you wish to scan.
2. Press the **Mode** button until the Scan icon and the privacy code number flashes on the display.
3. Press the **Channel Up** or **Channel Down** button and your radio will begin scanning privacy codes within the main channel you selected.
4. The Scan icon will continue to be displayed when scan is On. Your radio will continue to scan privacy codes and stop as incoming transmission is detected. Your radio will remain on that channel and privacy code for ten (10) seconds. During this time, you can:
 - a. Press and hold the **Talk** button to communicate with others. Your radio will remain on that channel and privacy code and return to **Standby Mode**.
 - b. Press the **Channel Up** or **Channel Down** button to resume scanning privacy codes.
 - c. Press the **Mode** button to proceed to memory scanning (see page 18 for further details).

If you press the **Talk** button while scanning (see page 16 for further details) and not within ten (10) seconds of receiving transmission, you will transmit on the last channel you transmitted or received on.

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

Mode Button



Scanning Memory



Channel 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.
2. Press the **Channel Up** or **Channel Down** button and your radio will begin scanning memory locations.
3. The Scan icon will continue to be displayed when 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. During this time, you can:
 - a. Press and hold the **Talk** button to communicate with others. 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.
 - c. Press the **Mode** button to proceed to next available Mode function.

If you press the **Talk** button while scanning and not within ten (10) seconds of receiving transmission, you will transmit on the last channel you transmitted or received on.

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



If you want to reduce the number of memory locations being scanned, you need to "un-program" all unwanted locations by changing both the main channel and privacy code to "00." See page 15 for more details.

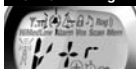


You must have at least two (2) memory locations programmed in order to scan memory locations.

Mode Button



VibrAlert® + Ring



VibrAlert® Only



Ring Only



Channel Button



Mode Button



Call Tone Setting



Channel Button



VibrAlert® and Call Tones

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

To Change Call Settings:

1. Press the **Mode** button until the Call Setting icon flashes on the LCD. The current setting (Vibrate + Ring, Vibrate Only, or Ring Only) is displayed.
2. Press the **Channel Up** or **Channel Down** button to change the call setting.
3. 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**.

10 Call Tone Settings

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

To Change a Call Tone Setting:

1. Press the **Mode** button until the letter "C" and the current call tone number (1 through 10) is displayed. The current call tone will sound for one (1) second.
2. Press the **Channel Up** or **Channel Down** button to hear the other call tone settings.
3. 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**.

“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. This feature can be turned On or Off.

Mode Button



Roger Beep On



Channel Button



To Turn “Roger Beep” On or Off:

When turning On your microTALK® radio for the first time, “Roger Beep” will be On.

1. Press the **Mode** button until the Roger Beep icon flashes on the LCD. The current On or Off setting is displayed.
2. Press the **Channel Up** or **Channel Down** button to select “Roger Beep” On or Off.
3. 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**.

The setting you select will be saved when you turn your radio Off and On again. When the “Roger Beep” is On, the “Roger Beep” icon will be displayed.

Mode Button



Keystroke Tones On



Channel Button



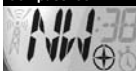
Keystroke Tones

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

To Change Keystroke Tones:

1. Press the **Mode** button until the Keystroke Tones icon flashes on the LCD. The current On or Off setting is displayed.
2. Press the **Channel Up** or **Channel Down** button to turn Keystroke Tones On or Off.
3. 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**.

Compass Icon



8-Point Digital Compass

Your microTALK® radio features an 8-point digital compass.



Because the surrounding terrain can affect compass accuracy, it is recommended that you calibrate the compass before each use. It is important to keep the radio parallel to the ground at all times while calibrating and using the compass.

Compass Button



To Calibrate the Compass:

1. Press and hold the **Compass** button for two (2) seconds. The Compass icon and “CALibr” will appear in the display.
2. Hold the radio in front of you, parallel to the ground, and turn around in a circle at least two (2) times (or you may place the radio on the palm of one of your hands, parallel to the ground, and turn it in a circle at least two (2) times with your other hand).
3. Press the **Compass** button again.
4. a. If compass calibration was successful, “SUCCEs” will appear in the display for one (1) second, then the radio will automatically return to **Compass Mode**.
b. If “FAIL” appears in the LCD, repeat steps 1 through 3. (If you receive repeated “FAIL” messages, change locations and repeat steps 1 through 3.)

CALibr Compass



Parallel To Ground



Success



Fail



Compass Button**Current Direction****Parallel To Ground****Light/Max Range****To Use Your Compass:**

1. After proper calibration (see page 21), press and release the **Compass** button. The Compass icon and your current direction will be displayed.



The radio must always be parallel to the ground to give accurate directional readings. The direction of the antenna is the direction displayed in the LCD.

To exit **Compass Mode** and return to **Standby Mode**, press and release the **Compass** button.

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.

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 Button**Lock Mode****Lock Function**

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

To Turn the Lock Button On or Off:

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

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**Speaker/Microphone Jack**

Your microTALK® radio can be fitted with an external Speaker/Microphone, freeing your hands for other tasks. See page 28 for optional accessories ordering instructions. Only Cobra® authorized accessories are recommended.

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.

Maximum Range

**microTALK® Range**

Your microTALK® radio has a range of up to ten (10) miles (16 km). Your range will vary depending on terrain and conditions.

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

Reduced Range



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

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

Reduced Range



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



Remember, you can achieve maximum range by using Maximum Range Extender. See page 22 for details.

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 = 3.0/2.0/0.5 (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	3
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 two-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 Commission (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 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 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.

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 service on page 2.

Product Service Questions

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 a 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 USA; 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 3 – 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.**



Warranty

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.





Order Form & Accessories

Name _____

Address (No P.O. Boxes) _____

City _____ State/Province _____ Zip _____ Country _____

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Item #	U.S. Cost Each	Qty	Amount
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(Tax if Applicable)			
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Total			

Amount Shipping/Handling*	
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\$25.01-\$50.00	\$7.50
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\$90.01-\$130.00	\$13.50
\$130.01-\$200.00	\$16.50
\$200.01 plus	10% of purchase

Tax Table

Wisconsin add 5%
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California add 7.25%
Illinois add 8.75%

*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 2-3 weeks for delivery in the U.S. Prices subject to change without notice.

The Cobra® line of quality products includes:

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- Radar/Laser Detectors
- Safety Alert® Traffic Warning Systems
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- GPS (Global Positioning System)
- Marine VHF Radios
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Optional Accessories

You can find accessories at your local Cobra® dealer, or in the U.S.A. you can order directly from Cobra.®

Ordering From U.S.

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 USA

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