

Cobra® microTALK

Owner's Manual



2-WAY RADIO MODEL
FRS 237

Printed in Philippines Part No. 480-052-P

Nothing Comes Close To A Cobra™

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.



For Assistance In Canada or 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 Canada, the U.S.A. or in French
Contact Your Local Dealer**

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Chicago, Illinois 60707 USA
www.cobra.com

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English



Features

- **Two-Way Radio**
With a range up to three (3) kilometers (2 miles).
- **14 Channels**
- **38 Privacy Codes**
- **Backlit LCD Display**
- **Scan**
(channel, privacy code)
- **Water Resistant**
- **Speaker/Microphone Jack**
- **Call Alert**
(10 selectable tones)
- **Lock**
- **“Roger Beep”**
(selectable On/Off)
- **Battery/Power Saver**
- **Auto Squelch**
- **Maximum Range Extender**
- **Belt Clip**
- **Wrist Strap**



Industry Canada Notice: Operation is subject to the following two (2) conditions: 1) this device may not cause interference, and 2) this device must accept any interference, including interference that may cause undesired operation of the device.

«IC» before the equipment certification number signifies that the Industry Canada technical specifications were met. It does not guarantee that the certified product will operate to the user's satisfaction.

Important FCC Licensing Information

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.

Backlit LCD Display



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 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 battery pack and desktop charger accessories.



The Basics to Get You Started

Your microTALK® radio is easy to use.

To get started, simply:

1. Press the **Power** button 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. Press and hold the **Power** button until you hear a series of audible tones indicating 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.

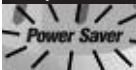
Battery Low



Battery Low

When battery power is low, the Battery Low icon will blink. 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



5 cm (2 inches)
From Mouth



Communicating with Another Person

To Talk To Another Person:

1. Press and hold the **Talk** button.
2. With the microphone about five (5) centimeters (2 inches) 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 Code
- Set Channel Scan
- Set Privacy Code Scan
- Set Call Tones
- Set "Roger Beep" On/Off

Channel Button



Channel Number



38 Privacy Codes



Channels

To Select a Channel:

1. With the radio On, select any of the 14 channels by pressing the **Channel Up** or **Channel Down** button.



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

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 Button

**Volume****To Adjust the Volume:**

1. Press the **Volume Up** or **Volume Down** button. A double beep sound is used to indicate the minimum and maximum volume levels (L1 through L7).

Volume Level



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 11 on how to select between ten (10) call tone settings.

Scan

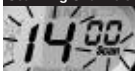
Your microTALK® radio can automatically scan main channels (1 through 14) or the privacy codes (00 through 38) within one (1) main channel.

Mode Button

**To Scan Main Channels:**

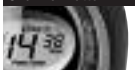
1. Press the **Mode** button until the Scan icon and the main channel number flashes on the display.
2. Press the **Channel Up** or **Channel Down** button to begin scanning the main channels.

Scanning Channels



The radio ignores privacy codes while scanning main channels.

Channel Button



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 and 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 10 for further details).

If you press the **Talk** button while scanning and not within ten (10) seconds of receiving a 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.

Channel Button



Select Channel



Mode Button



Scan Privacy Codes



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 an 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 other functions.

If you press the **Talk** button while scanning and not within ten (10) seconds of receiving a 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



Call Tone Setting



Channel Button



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.

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. 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



Roger Beep Off



Channel Button



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 Button

**Lock Function**

The Lock function locks the **Channel**, **Mode**, and **Power** buttons to prevent accidental operation.

To Turn the Lock 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.

Lock Mode



Speaker/Microphone

**Speaker/Microphone Jack**

Your microTALK® radio can be fitted with an external Speaker/Microphone, freeing your hands for other tasks. See page 16 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.

Maximum Range

**microTALK® Range**

Your microTALK® radio has a range of up to three (3) kilometers (2 miles). Your range will vary depending on terrain and conditions.

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

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


Dense foliage and hilly terrain will further reduce the signal.

Reduced Range



Reduced Range



 Remember, you can achieve maximum range by using Maximum Range Extender. See page 12 for details.

A. FRS Frequency Allocation

- A = Channel No. For
14 Channel FRS Models
B = Frequency in MHz
C = Power in Watts

A	B	C
1	462.5625	0.5
2	462.5875	0.5
3	462.6125	0.5
4	462.6375	0.5
5	462.6625	0.5
6	462.6875	0.5
7	462.7125	0.5
8	467.5625	0.5
9	467.5875	0.5
10	467.6125	0.5
11	467.6375	0.5
12	467.6625	0.5
13	467.6875	0.5
14	467.7125	0.5

The Cobra® line of quality products includes:

CB Radios
microTALK™ Radios
Radar/Laser Detectors
Safety Alert™ Traffic Warning
Systems
Accessories
GPS (Global
Positioning System)
HighGear™ Accessories

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	-10
@ 2500 HZ	dB	-3
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	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

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

For Products Purchased in Canada

For out of warranty service, ship prepaid this product to: AVS Technologies Inc., 2100 TransCanada Hwy S., Montreal, Quebec, H9P 2N4. We reserve the right to repair or replace the radio with an equivalent product. Please include the following information: Date of Purchase, Model Number, Dealer Purchased From, Dealer Address, Dealer Phone Number.

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.

- 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;
- Send the entire product;
- 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;
- Pack radio securely to prevent damage in transit. If possible, use the original packing material;
- 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;
- 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 Canada.

Your new Cobra® FRS is covered by a one (1) year replacement warranty. If any manufacturing defect becomes apparent in this product within one (1) year from the original date of purchase, it will be replaced. Please return the FRS radio to your dealer with original or copy of dated proof of purchase. This warranty does not cover damages due to careless handling, negligence, accident, abuse or failure to follow operating instructions. Alteration of this product or defacing the Cobra® Factory Service department's obligations of this warranty. This warranty gives you specified legal rights. Additional warranty rights may be provided by law in some areas.

Limited 1-Year Warranty For Products Purchased in the U.S.A.

Cobra® Electronics Corporation warrants that its Cobra® FRS 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 FRS 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 original product 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.**

