How to Use Your Cobra microTALK™2-Way Radio

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Features of This Product

- Two-way static-free radio with up to a 2 mile range
- Digital AM/FM Stereo Tuner
- AM/FM Memory
- 14 channels
- SuperFlex™ antenna
- · Holster belt clip
- Roger beep confirmation tone
- Backlit LCD
- · Stereo Headphones
- Speaker/Microphone/ Headphone jack



Operation

Battery Installation

Note

Batteries not included with microTALK 2-way radio. Always use high quality alkaline or NiMH batteries.

Only the Cobra NiMH battery pack (Part #FA-BP) can be recharged.

Incorrect positioning can damage both the batteries and the unit.

Note

When batteries are low the **MIT IOM** indicator willblink.

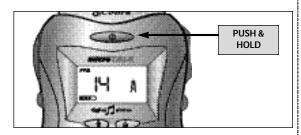
Install Batteries



• Pull lock tab down to remove battery cover.

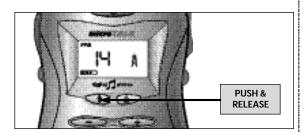
2 Insert four "AAA" batteries. Position batteries according to polarity markings.

Turning On Your microTALK



1 Push and hold the DOWER button for 3 seconds. An audible tone will indicate the unit is on. (The unit will return to the mode last selected before it was shut off).

Illuminating the Display



Push and release LIGHT/MAX RANGE button to illuminate display for ten seconds.

Turning On Your microTALK

Note

You will be able to receive communications only when the unit is in the FRS,AM/FRS and FM/FRS modes.

Illuminating the Display

2

Operation

Auto Squelch

Auto Squelch

Your microTALK is equipped with Auto Squelch, which automatically shuts off weak transmissions and unwanted noise due to terrain conditions or if you have reached your range limit.

Maximum Range Extender

Note

To learn more about the range of your microTALK, see page 11.

Range is dependent on battery condition and geographic territory.

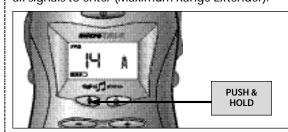
Auto Monitor

Auto Monitor

When the signal you want to hear is consistently weak, you may place the radio in Maximum Range mode without having to constantly hold the button: Press and hold the Maximum Range Extender button for five seconds. To return to normal operation, momentarily press the Maximum Range Extender button again or change channels.

Auto squelch can be temporarily removed to allow all signals to enter (Maximum Range Extender).

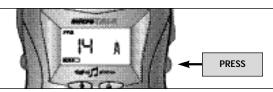
Maximum Range Extender



button to allow all signals to enter.

Select Channel/Station

1 Turn on the microTALK.



2 Press the Mode button to choose between five different modes:FRS,AM,AM/FRS,FM and FM/FRS (a double beep will confirm each selection).



3 Once in a mode, select a channel and/or station by moving the channel button up or down.

Select Channel/ Station

Operation

Mode Key

Note

Playing this unit primarily as a radio severely diminishes the lifespan of the batteries.

Note

See page 12 for Programming AM/FM Stereo Tuner Channel Memory Locations. You will be able to receive communications only when the unit is in the FRS, AM/FRS and FM/FRS modes.

Note

To change modes after one has been selected hold Mode button until double -beep is heard. Choose a new one by pressing Mode button until desired selection is reached.

Mode Key

The Mode key allows you to choose between five different modes:FRS,AM,AM/FRS,FM and FM/FRS.A double-beep will confirm each selection.(If the unit has been turned on for a while it will be necessary to hold the Mode key for 5 seconds in order to activate the selection process A double-beep will be heard).



Press ☐ Mode key once to go to FRS mode and select a channel by pressing channel button up or down.Or, press Mode key again (within 5 seconds) to go to AM mode. Select a station by pressing the channel button up or down.

Or, press Mode key again (within 5 seconds) to go to AM/FRS mode. This enables you to listen to your favorite AM station while still being able to transmit or receive incoming FRS transmissions.

Press it again (within 5 seconds) to go to FM mode. Select a station by pressing the channel button up or down.

Press the

Mode key again (within 5 seconds) to go to FM/FRS mode. This enables you to listen to your favorite FM station while still being able to transmit or receive incoming FRS transmissions.

Battery Low



When in normal use, the **....** icon may begin flashing. This is a warning to you that your batteries are getting low.

Replace alkaline batteries as soon as possible or recharge NiMH battery pack.

Auto Battery Save

When in the FRS mode your FRS 115 has a unique circuit designed to extend battery life. If there are no transmissions within 10 seconds, the unit will automatically switch to battery save mode and will be shown in the display.

Battery Low

Note

When battery capacity is at the 1/4 level it is recommended that you replace alkaline batteries or recharge your NIMH (Nickel Metal Hydride) battery pack.

Only the Cobra NiMH battery (Part#FA-BP) pack can be recharged.

Note

NiMH rechargeable battery Pack (item#FA-BP) and desktop battery charger (item #FA-CR) are not included with this unit.

Auto Battery Power Save

Note

The Auto Battery Save Circuit does not effect the unit's ability to receive incoming transmissions.

6

Operation

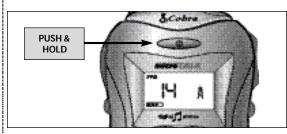
Calling Another Party

Note

You can only receive FRS transmissions while in one of the following 3 modes:FRS, AM/FRS or FM/FRS. When in any of the above modes you will receive incoming transmissions automatically. Once transmission ceases the unit will automatically revert back to the previously selected radio station.

Calling Another Party

To alert another party you wish to communicate with them:



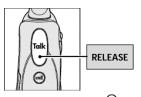
Turn on the microTALK 2-way radio.
Select any of the 14 channels by moving the channel button up or down.



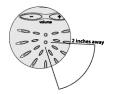
Push and release call button. The icon will remain on for 3 seconds. The unit you are calling will hear a 2-second ring tone.

Wait for the party's response or proceed to "Talking to Another Party" on next page.

Talking To Another Party



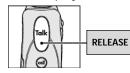
1 Push and hold TALK button.



3 Hold mic about 2 inches from mouth. Speak in a normal voice.



2The indicator will be displayed.



◆ After speaking, release → TALK button and listen for response.

Talking To Another Party

Note

While the TALK button is depressed you cannot receive incoming calls.

Note

Your microTALK radio must be turned on to the same FRS channel as the person you are calling in order to communicate.

Operation

Roger Beep Confirmation Tone

Roger Beep Confirmation Tone



Your listener will hear an audible tone when you release the final TALK button.

This alerts the other party that you are finished talking and it's OK for them to begin talking.

Standby Mode

While the Talk TALK button

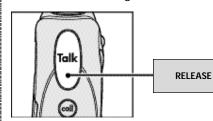
is depressed you cannot

receive incoming calls.

Note

Standby Mode

When finished talking:



1 Release TALK button to receive incoming transmissions.

Your microTALK is always in the standby mode when the $^{\odot}$ TALK button is not depressed (while in the FRS,AM/FRS,FM/FRS mode).

2 Adjust volume by pushing • • DOWN/UP buttons.



microTALK Range

Your microTALK Radio has a range of up to 2 miles. This effective range can be shortened under some conditions.



Under flat, open conditions you will experience the microTALK's maximum range.



Range can be reduced by buildings and foliage in the path of the signal.



Range will be further reduced by dense foliage and hilly terrain.

microTALK Range

Note

To achieve maximum range the auto squelch can be overridden. Refer to Maximum Range Extender section on page 5.



Advanced Features

Advanced Features

Digital AM/FM Stereo

Selecting/ Storing a Radio Station

Note

To quickly advance stations hold the Channel button down until a double-beep is heard. The stations will then scroll rapidly.

Note

The headphone cord acts as a radio antenna; try to keep cord extended in a simple loop for best reception.

Digital AM/FM Stereo

Your microTALK also functions as an AM/FM stereo tuner. It provides complete coverage of all AM and FM bands, in stereo, where available. The stations are digitally tuned for improved ease of selection and clarity of signal.

Selecting/Storing a Radio Station

Your microTALK has a ten station memory (5 AM, 5 FM) for storing your favorite stations.



Press Mode button to select AM or FM.



Push Channel up/down button until desired channel is reached.



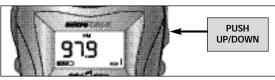
Press Mode button once. MEM 1 will flash. Briefly press Lock button.A double-beep will indicate selection has been entered.

To set second memory station, tune to station, press Mode button briefly, press Channel up/down button until MEM 2 is reached, briefly press Lock button (a double-beep will confirm selection). Repeat above steps to store additional stations.

Retrieving a Radio Station



To retrieve your favorite station press the Mode button twice. The MEM icon will flash.



Press the Channel up/down key until the desired station in the memory bank has been reached.

Repeat above to go to another station.

To return to manual tuning press the Mode button once and press the Channel up/down button to reach the desired station.

To change to another mode hold the Mode button in for 5 seconds until you hear a double-beep and then continue to press until the desired mode has been reached.

Retrieving a Radio Station

Advanced Features

Making Life Easier and Safer

Lock Function (in FRS Mode)

Lock Function (in FRS Mode)

The purpose of the LOCK function is to lock most buttons to avoid accidental operation.

To engage the LOCK function:



- Push and release button. icon flashes. most buttons are locked.
- 2 To "unlock" push and release button again. Buttons are "unlocked" and icon disappears.

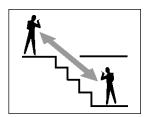
microTALK 2-Way Radio Can Make Life Easier and Safer

As you become familiar with your microTALK Radio you will find many of your own uses for the unit. Some suggestions include:



Talking with fellow hikers.

Keeping track of the kids in a shopping mall.



Communicating between basement and first, second or third floor.



Talking to a neighbor or a friend.

microTALK 2-Way Radio Can Make Life Easier and Safer

Note

Call button, Range Extender button and PTT button **do not lock and are fully operationa**l while the unit is locked.

The unit cannot lock while in function mode.

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Making Life Easier and Safer

External Headphone Jack



Checking on traveling companions in another car.

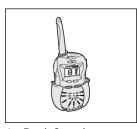


Agree on a meeting spot after an event.

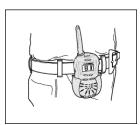
Holster-Belt Clip and Desk Stand

Holster/Belt Clip/Desk Stand

Your microTALK Radio comes with a custom molded plastic holster. Its unique dual-function design enables it to act as a handy desktop storage unit, as well as easily attaching to your belt for maximum convenience and portability.



1. Desk Stand



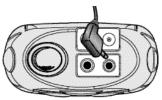
2. Belt Clip

External Headphone Jack

An external headphone jack is included with your microtalk 2-way radio.

To attach the headphone jack:

1 Insert plug into the Headphone jack.

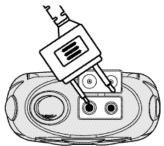


External Microphone/Speaker

Your microTALK 2-Way Radio can be fitted with an external microphone/speaker, (not included) freeing your hands for other tasks.

To attach an external microphone/speaker:

1 Insert plug into the Spkr/Mic jack.



External Headphone Jack

Note

Plugging in headphone defeats main speaker.

Caring for your **microTALK**™ Radio

microTALK[™] Specifications

Caring for Your microTALK Radio

Note

Modifying or tampering with the radios internal components can cause malfunction and will invalidate the warranty. If your radio is not performing as it should, please call Cobra at 773.889.3087. Do not return the unit to the retailer.

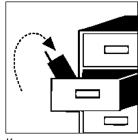
Caring for Your microTALK Radio

The microTALK 2 Way Radio will give you years of service if cared for properly.

Here are some suggestions:



Handle unit gently.



Keep away from dust.



Never place the unit in water or in a moist place.



Avoid exposure to extreme temperatures.

I.GENERAL SPECIFICATIONS

A.FREQUENCIES

CHANNEL ASSIGNMENT	
CH 1: 462.5625MHz	CH 8: 467.5625MHz
CH2: 462.5875MHz	CH 9: 467.5875MHz
CH 3: 462.6125MHz	CH 10: 467.6125MHz
CH 4: 462.6375MHz	CH 11: 467.6375MHz
CH 5: 462.6625MHz	CH 12: 467.6625MHz
CH 6: 462.6875MHz	CH 13: 467.6875MHz
CH 7: 462.7125MHz	CH 14: 467.7125MHz

C.RECEIVER

	UNIT	NOMINAL
1. SENSITIVITY		
FOR 12 DB SINAD	dBm	-119
FOR CALL SIG.DETECTION	dB m	-121
2. MAX.AUDIO OUTPUT @10% THD	mW	150
3. MAX.S/N RATIO @ 1mV RF INPUT	dB	45
4. SQUELCH		
a) SENSITIVITY	dB m	-121

microTALK[™] Specifications

Limited Two Year Warranty

	b) ATTACK TIME	mS	120
	c) CLOSING TIME	mS	200
5	. AUDIO FREQUENCY RESP.		
	@ 300 HZ	dB	-15
	@ 2500 HZ	dB	-10
6	. SIGNAL DISPLACEMENT BW	+/-KHZ	5
7	. ADJACENT CH.REJECTION	dB	60
8	. INTERMODULATION REJECTION	dB	65
9	. SPURIOUS RESPONSE REJECTION	dB	65

	NSN	

1. EFFECTIVE RADIATED POWER	UNIT mW	NOMINAL 500		
2. CARRIER FREQ.STABILITY	Hz	200		
3. MODULATION LIMITING	KHz	2.5		
4. CARRIER ATTACK TIME	mS	30		
5. AUDIO FREQUENCY RESPONSE @ 300 HZ @ 2500 HZ	dB dB	-10 4		
6. AUDIO DISTORTION	%	3		
7. HUM NOISE	dB	38		
8. TRANSIENT FREQ.BEHAVIOR a) TX ON b) TX OFF	mS mS	30 5		
E. POWER SUPPLY				
 BATTERY LIFE (1:1:18 RATIO) BATTERY 	HR V	24 4.2 - 6.0		

COBRA ELECTRONICS CORPORATION warrants that its COBRA FRS Radios, and the component parts thereof, will be free of defects in workmanship and materials for period of two (2) years from the date of first consumer purchase. This warranty may be enforced by the first consumer purchaser, provided that the product is utilized within the U.S.A.

COBRA will, without charge, repair or replace, at its option, defective 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.

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 limita-



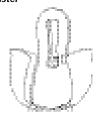
Cobra Electronics Corporation

6500 West Cortland Street Chicago, Illinois 60707

Optional Accessories

Accessory Order Form

Replacement Holster



FA-HR1

Ear Bud Mic with PTT



Compact earbud and microphone with Push-to-Talk switch. MA-EBM \$29.95

Vox Headset Mic

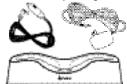


VOX (Voice Operated Transmitter) headset and microphone allows hands-free operation. MA-VOX

Lapel Speaker/ Microphone

Remote microphone/speaker with Push-to-Talk switch. MA-SM \$24.95

2 Port Desktop Charger



Charges two microTALK radios or two NiMH battery packs. FA-CR \$19.95

NiMH Rechargeable Battery Pack



High performance Nickel Metal Hydride battery pack for multiple charging. FA-BP \$29.95

You Can Find These Fine Accessories At Your Local Cobra Dealer

If you wish, you can order directly from Cobra.

Order by phone

Call 1.773.889.3087 (Press 1 from the main menu) 8 a.m.-6 p.m. M-F CST.)

Order by mail or fax

Please fill out order form on next page, and mail/fax directly to Cobra.

Order over the Web

www.cobraelectronics.com

Item#	Description	Cost Ea.	Qty.	Amount
FA-HR1	Replacement Holster	\$4.95		
MA-VOX	Vox Headset Mic	\$49.95		
MA-EBM	Ear Bud Mic with PTT	\$29.95		
MA-SM	Lapel Speaker/ Microphone	\$24.95		
FA-BP	Battery	\$29.95		
FA-CR	Charger	\$19.95		
Prices subject to change without notice. Subtotal				

(Tax if applicable)

Shipping/handling

Total

Make check or money order (no

6500 West Cortland St. Chicago, IL

stamps) payable to:

Cobra Électronics

Accessories Dept.

Prices subject to change without notice.

Tax Table Illinois residents add 7% Cook Co. residents add .75% (7.75% total)

Chicago residents add 1% (8.75% total) Indiana residents add 5% Michigan residents add 4 %

Ohio residents add 6% Wisconsin residents add 5%

Shipping & Handling

	Amount of Order	Shipping/ Handling	
	\$25.00 and under	\$4.75	
	\$25.01 - \$40.00	\$6.95	
	\$40.01 - \$80.00	\$9.25	
	\$80.01 - \$120.00	\$10.25	
	\$120.01 - \$160.00	\$11.75	
	\$160.01 and up	\$14.50	

For AK,HI and PR please add an additional \$15.00 for UPS shipments.

For credit card orders fill out order form and fax to: 1.773.622.2269 or call 1.773.889.3087 (Press 1 from the main menu) 8:00 am - 6:00 pm, M-F, CST.

Please print clearly

Name ______

Address (No P.O. Box)

Telephone (____)_____

Credit Card No. _____ Exp. Date_____

Customer Signature _____

Circle One: Visa MasterCard Discover

Allow 7–10 days for delivery. Offer valid in Continental U.S.only.



Cobra Electronics Corporation 6500 West Cortland Street Chicago, IL 60707

If You Think You Need Service

For technical assistance, please call our Automated Help Desk which can assist you by answering the most frequently asked questions about Cobra products.

(773) 889-3087

24 hours a day, 7 days a week.

A Consumer Service Representative can be reached through this same number 8:00 am - 6:00 pm, Monday through Friday, CST.

Technical assistance is also a vailable on-line in the Frequently Asked Questions (FAQ) section at www.cobraelectronics.com by e-mail to productinfo@cobraelectronics.com

If you think you need service call 1.773.889.3087

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

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

- 1. For Warranty Repair include some form of proof-of-purchase, such as a mechanical reproduction or carbon 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 unit.Include a typed or clearly print name and address of where the unit is to be returned.
- 4. Pack unit securely to prevent damage in transit. If possible, use the original packing material

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Part No. 480-115-P-001

SCobra MicroTALK

Operating Instructions for your

&Cobra® migroTALK™

2 Way Radio

FRS 115

AM/FM Stereo and FRS in One Unit



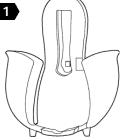
Nothing comes close to a Cobra™

The Family Radio Service Story

The Family Radio Service Story

Ever wish you could talk to someone who wasn't within earshot? Like contacting ski partners back at the lodge? Or letting a friend know how to find you in a busy mall? Cobra's microTALK FRS 115 is a great way for friends or family to increase their fun–and safety–by staying in touch while on the go.

The FCC (Federal Communications Commission) has created 14 license free frequency bands, or channels, called Family Radio Service (FRS) frequencies. These channels are in the UHF (Ultra High Frequency) band which means great penetration through buildings, thick forests, hills, and other dense structures. They are also FM (Frequency Modulation) signals which means crystal clear reception even in crowded noisy environments.



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.

Included with your microTALK

- Holster/Belt Clip/Desk Stand
- 2 Stereo Headphones



Controls and Indicators

Our Thanks to You

1. Antenna

2. Microphone/Speaker/ Headphone Jack

3. On/Off Power Button

4. LCD Display Panel

5. Light/Max Range Button

6. Down/Up Volume Control

7. Speaker

8. Battery Compartment

9. Talk Button

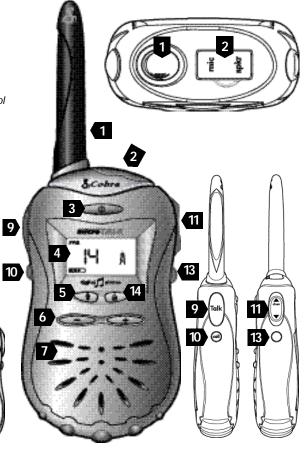
10. Call Button

11 Channel Select Button

12. Battery Charge Pads

13. Mode Key

14. Key Lock



Thank you for purchasing the Cobra FRS 115 2-way Radio. Properly used, this Cobra product will give you many years of reliable service.

Customer Support

Should you encounter any problems with the product or not understand its many features, please refer to this owner's manual. If, after referring to the manual, you still need help, call Cobra Customer Service at 773.889.3087.

Cobra Customer Service

Live operators are available M-F 8:00 am - 6:00 pm CST at: 773.889.3087

Automated Technical Assistance available 24 hours a day, seven days a week. E-mail questions to: product info@cobraelectmics.com

Cobra on the World Wide Web: Frequently Asked Questions (FAQ) can be found on-line at: www.cobraelectronics.com

A2



The Cobra line of quality products also includes:

- CB Radios
- High Gear Accessories
- Radar Detectors
- Safety Alert[™] Traffic Warning Systems

Nothing comes close to a Cobra[™]