

Cobra Electronics Corporation 6500 West Cortland Street Chicago, IL60707

#### 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 - 8:00 pm,Monday through Friday, CST. Technical assistance is also available on-line in the Frequently Asked Questions (FAQ) section at www.cobraelec.com or by e-mail to productinfo@cobraelec.com

### If you think you need service call 1.773.889.3087

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

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

- 1. For Warranty Repair include some form of proof-of-purchase, such as a mechanical reproduction or carbon or a sales receipt. If you send the original receipt it cannot be returned.
- 2. Send the entire product.
- Enclose a description of what is happening with the unit. Include a typed or clearly print name and address of where the unit is to be returned.
- 4. Pack unit securely to prevent damage in transit. If possible, use the original packing material.
- 5. Ship prepaid and insured by way of a traceable carrier such as United Parcel Service (UPS) or First Class Mail: to avoid loss in transit to: Cobra Factory Service, Cobra Electronics Corporation, 6500 W. Cortland St., Chicago, IL 60707.
- 6. If the unit is in warranty, upon receipt of your unit it will either be repaired or exchanged depending on the model. Please allow approximately 3 to 4 weeks before contacting us for status. If the unit is out of war ranty a letter will automatically be sent informing you of the repair charge or replacement charge. If you have any questions, please call 1.773.889.3087 for spitches.

Cobra Electronics Corp.© 1998 Printed in Thailand

Part No. 480-280-P-001



Operating Instructions for your Cobra MicroTalk 3

Family Radio Se 2 Way Radio









## 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 3 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. All of these 14 channels are easily accessed on your Cobra FRS radio. 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 3

- 1 Removable Belt Clip
- 2. Wrist Strap



## **Controls and Indicators**



Thank you for purchasing the Cobra MicroTalk 3 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 Serviæ

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

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

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



# How to Use Your Cobra

Features1	
The FRS StoryA1	
FCC Warnings	
	Fe
Controls & IndicatorsA2	
Our Thanks to You	•
Customer Support	
Operating your MicroTalk 3	•
Operating your MicroTalk 3  Battery Installation	
LCD Display	
Turning On	
Turning On	
Auto Battery Power Saver	•
Select Main Channel (1-14)6	
Select CTCSS Subchannel (00-38)7	•
Battery Low9	
Calling Another Party 10 Talking To Another Party 12 .	
Talking to Another Party12	
Talk Confirmation Tone 14 :	
Listening For Another Party 14 Auto Squelch 15	•
Auto Squelch15	
Maximum Range Extender	-
MicroTalk 3 Range	
Making Life Easier And Safer17	
External Microphone/Speaker Jack19	
Advanced Features 20	
Programming Memory Locations22	•
Using Memory Locations26	
Scan Function28	
Private Call (Voice Scramble)32	•
Ringer/Vibrate Modes34	
Tone Settings38	•
Lock Function40	
Frequency Ranges41	
Caring for Your MicroTalk 3	
MicroTalk 3 Specifications44	
Limited Two Year Warranty 46	•
Limited Two Year Warranty	
Order Form48	•
If You Think You Need ServiceBack Cover	
II TOU THINK TOU WOOD OF VICE	

#### Features of This Product

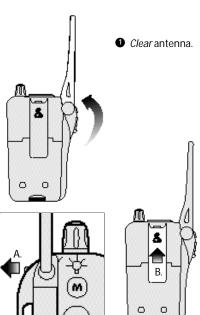
- UHF FM Frequencies
- No License Required
- No Air Time Fees
- Up to 2 mile range
- 14 Main Channels
- 38 CTCSS Subchannels
- LCD Function Display
- Private Call Voice Scramble Talk Confirmation Tone
- Call/Ring Button
- Recharging Pads
- Retractable Antenna
- Notificable / linter in la
- Auto Battery Saver Circuity
- Auto Squelch
- 10 Memory Locations
- Full Channel/CTCSS Scan
- Lock Key
- Ring/Vibrate Notification
- Wrist Strap/Belt Clip
- Water Resistant

## Operation

## Operation

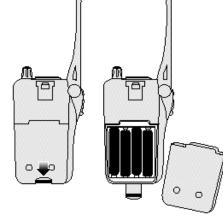
## Battery Installation

Note
Batteries not included with MicroTalk 3 2-way radio.



Remove belt clip by (A.) pulling tab out and (B.) Sliding belt clip up and off unit.

## **Install Batteries**



3 Pull lock tab down and lift door up (towards you) to remove battery cover.

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

Always use high quality alkaline or NiMH batteries.

Incorrect positioning can damage both the batteries and the unit.

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

See Accessories on page 47. Charge ports for recharging NiMH (Nickel Metal Hydride) battery pack are located on back of unit.

When batteries are low or need charging the ■ BATT LOW indicator will blink. Replace alkaline batteries or recharge NiMH battery pack.





#### Operation Operation LCD Display Turning On Your MicroTalk LCD Display Turning Rotate ON - OFF Volume Control clockwise. On Your An audible "tone" will indicate the unit is on and MicroTalk 3 then the LCD will go through a 3 second self-test and then go to operational mode. ■ CTCSS Subchannel Indicator Outgoing Call Indicator Transmit (Talk) Indicator Receive (Listen) Ind Receive (Lister) Indicator Whenever the unit is on you can receive communications. Tone Indicator Scan Mode Indicator PRIOTE Private Call Indicator POR SAFE Auto Battery Save Indicator Operational Mode Incoming Call Indicators: • Ringer Indicator 2 Digit Channel OOUN PRINCIP PUR OUNTRY **Auto Battery Power Saver** ① Vibrate Indicator Display **Auto Battery** Your MicroTalk 3 has a unique circuit designed to ♠ Combination Ringer/ extend battery life. If there are no transmissions within 10 seconds, the unit will automatically Battery Capacity Power Saver Vibrate Indicator Level Indicator switch to battery save mode. BEST Key Stroke OH OFF Function ON/OFF - Lock Indicator Indicator flashing The Auto Battery Save Circuit does not effect the unit's MEM Memory Location Indicator ability to receive incoming transmissions. | U-38 The PWR SAVER icon will flash. 4

## Operation

#### Select Main Channel

#### Note

Units must be on same channel and subchannels to communicate.

#### Noto

Channels 8-12 generally are less used and give better results for communications in most areas.

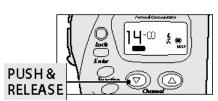
#### Note

Push and hold the channel buttons for fast channel advance.

## Select Main Channel (1-14)

■ Rotate ON - OFF Volume Control 

clockwise. An audible "tone" will indicate the unit is on and then the LCD will go through a 3 second self-test and then go to operational mode.

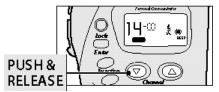


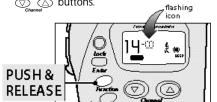
## Operation

## Select CTCSS Subchannel (00-38) Select

The CTCSS Subchannel allows the user to utilize a less used channel range (00-38) within a main channel.

● Rotate ON - OFF Volume Control © *clockwise*. An audible "tone" will indicate the unit is on and then the LCD will go through a 3 second self-test and then go to operational mode.





Push and release putton. Small numbers flash next to channel display on LCD.

#### -i-

### Select CTCSS Subchannel

#### Note

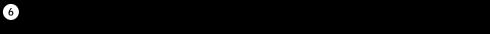
If you push and hold the Function button, the LCD display will cycle through the different functions.

#### Note

To return to operational mode and not save your last setting push and release button.

#### ote

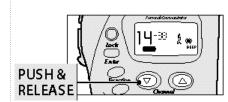
CTCSS (Coded Tone Controlled Squelch System) is an advanced subcoding system that allows segmentation of a main channel.



## Operation

## Subchannel

Select CTCSS Subchannel (00-38) continued



Push and hold the Channel buttons for fast channel advance.

8

Select subcode number by pushing and releasing
 Dannel
 buttons.



**19** When desired code is displayed *push* and release button. If key stroke tone is on, an audible tone will confirm your selection.

## Operation

### **Battery Low**



**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 and/or recharge NiMH battery pack.

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 2 port desktop charger (item #FA-CH) are not included with this unit. See Accessories section on page 47.



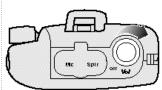
## Operation

## Operation

## Calling Another Party

### Calling Another Party

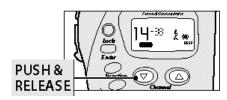
To alert another party that you wish to communicate:



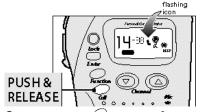
Turn on your MicroTalk 3 2-way radio. An audible "tone" will indicate the unit is on. The LCD will go through a 3 second self test and then to operational mode.



2 Place antenna in full upright position.



3 Select desired channel by pushing and releasing  $\bigcirc$  buttons.



◆ Push and release button. The indicator icon will flash and the icon will remain on for 3 seconds. The unit you are calling will hear a 2 second ring tone.

◆ Dush and release button. The indicator icon will remain on for 3 seconds.

◆ Dush and release button. The indicator icon will remain an indicator icon will remain a second ring tone.

◆ Dush and release button. The indicator icon will remain on for 3 seconds.

◆ Dush and release button. The indicator icon will remain on for 3 seconds.

◆ Dush and release button. The indicator icon will remain on for 3 seconds.

◆ Dush and release button. The indicator icon will remain on for 3 seconds.

◆ Dush and release button.

◆ Dush and release

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



Both the calling and receiving units must be on same channel and subchannel for the call function to work.

#### Vote

Your incoming "Call" audio ringing level is dependent on your unit's volume setting.





## Operation

## Operation

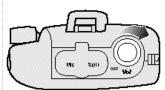
### Talking to Another Party

Note

Both units must be on same channel to communicate.

### Talking To Another Party

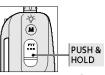
To send your outgoing message:



Turn on your MicroTalk 3 2-way radio. An audible "tone" will indicate the unit is on. The LCD will go through a 3 second self test and then go to operational mode.



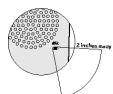
Place antenna in full upright position.



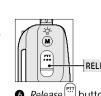
3 Push and hold Embutton.



4 The ficon will appear.



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



• Release tutton and listen for response.

#### Note

While PTT button is depressed you cannot receive incoming calls.



When you release the PTT button, the person you are talking to will hear a tone indicating that it's ok to talk. See Talk Confirmation Tone section on page 14.





## Operation

## Operation

### Talk Confirmation Tone

#### **Talk Confirmation Tone**

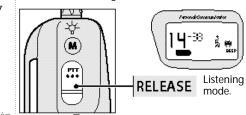


Your listener will hear an audible tone when you release the PTT button.

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

## Listening For Another Party

### **Listening For Another Party** When finished talking:



#### Not

While PTT button is depressed you cannot receive incoming communications.

Release transmissions.

Release transmissions.

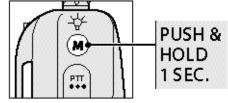
Your MicroTalk 3 is always in listening mode when the PTT button is not pressed and you are not in function mode. See Advanced Features section on page 20.

### Auto Squelch

Your MicroTalk 3 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

Auto squelch can be temporarily removed to allow all signals to enter by pressing the M button (Maximum Range Extender).



• Push and hold the (M) button for 1 second to allow all signals to enter.

### Auto Squelch

Maximum Range Extender

#### Note

To learn more about the range of your MicroTalk 3, see MicroTalk 3 Range Section on page 16.

Range is dependent on battery condition and geographic territory.





## MicroTalk 3 Range

## Making Life Easier and Safer

### MicroTalk 3 Range

### MicroTalk 3 Range

Your MicroTalk 3 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.

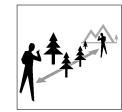
3. Range will be further reduced by dense foliage and hilly terrain.

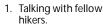
To achieve maximum range the auto squelch can be overridden.
Refer to Maximum Range Extender section on page 15.

## MicroTalk 3 2-Way Radio Can Make Life Easier and Safer

As you become familiar with your MicroTalk 3 Radio you will find many of your own uses for the unit.

Some suggestions include:







Keeping track of the kids in a shopping mall.

continued

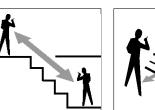
16



## Making Life Easier and Safer

## MicroTalk 3 2-Way Radio Can Make Life Easier and Safer

## MicroTalk 3 2-Way Radio Can Make Life Easier and Safer continued



3. Communicating between basement and first, second or third floor.



Talking to a neighbor or a friend.



5. Checking on traveling companions in another car.



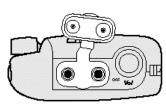
Agree on a meeting spot after an event.

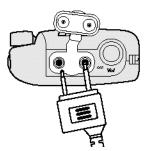
## External Microphone/Speaker Jack

### External Microphone/Speaker Jack

Your MicroTalk 3 2-Way Radio can be fitted with an external microphone/speaker, (not included) freeing your hands for other tasks.

To attach the external microphone/speaker:





2 Insert jack into the Mic/Spkr ports.

## External Microphone/ Speaker Jack

#### Note

External microphone/ speaker (item #FA-SM) is not included with this unit. See Accessories section on page 47 for available units.





## **Advanced Features**

## **Advanced Features**

### Advanced Features

## Note

When using or programming functions, pushing and releasing the function button or the button will save all entered information.

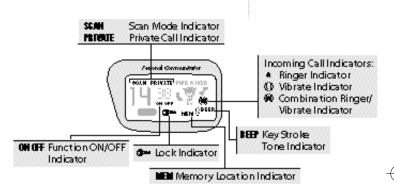
#### Note

To exit out of function mode and return to operational mode without saving entered information simply press the trip button.

#### Advanced Features

Your MicroTalk 3 has many advanced features not found on other 2-way radios.
These include:

- 10 Memory Storage Location and Recall
- Full Channel/Sub Channel Scan
- Private Call® (Voice Scramble)
- Ring/Vibrate Notification Modes
- Tone Indicator Settings
- Key Stroke Tone
- Talk Confirmation Tone
- Lock Key



#### Note

If you push and hold the Aunction button, the MicroTalk 3 will cycle through the different functions.

If, after 10 seconds no selection is made, the unit will return to operational mode.

20

(21

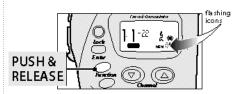
## **Advanced Features**

## **Advanced Features**

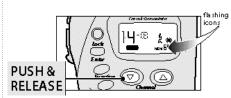
### Programming Memory Locations

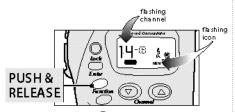
### **Programming Memory Locations**

Your MicroTalk 3 has 10 memory (0-9) locations for storing your most frequently used channels.

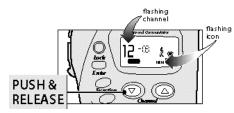


**2** Push and release Function button until MEM icon and a memory location flashes.





4 Push and release Function again. IYMAIN CHANNEL will flash and only the MEM icon will remain flashing.



Select desired main channel you wish to store (1-14) by pushing and releasing buttons. (Use CHANNEL 12 for this example.)

#### Note

Once you enter memory mode you can talk and listen to any channel you select after programming is complete. See Using Memory Locations section on page 26.

continued







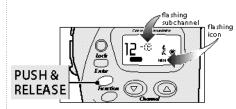
## **Advanced Features**

## **Advanced Features**

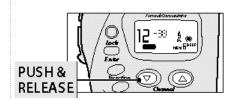
### Programming Memory Locations

#### Note

Push and hold the channel buttons for fast channel advance.



O Push and release Function button which sets main channel in memory and moves to subchannel selection. The subchannel begins flashing.
The MEM icon will remain flashing.



**3** Select desired subchannel you wish to store (00-38) by pushing and releasing ♥ buttons. (Use SUBCHANNEL 38 for this example.)

Note You can push and hold the

button to begin talking anytime.

Programming Memory Locations continued

Your MicroTalk 3 will stay in the subchannel section until you:

Push and hold button to set memory location and stay in memory scan.

- B Push and release Enter button to return to operational mode.
- © Push and release Function button to proceed to next function mode (Scan).

If you push and hold the Function button, the LCD display will cycle through the different functions.





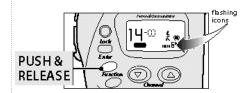
## **Advanced Features**

## **Advanced Features**

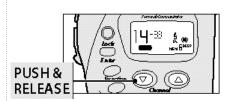
## Using Memory Locations

## Memory Channel Recall/Talk

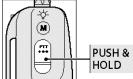
To recall a channel in memor y:



Push and release Function button until MEM icon and a memory location flashes.



**2** Select desired memory location you wish to recall (0-9) by pushing and releasing  $\bigcirc$ buttons.

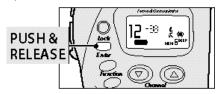


HOLD

Push and hold button and talk. Your radio will stay on this recalled location until you exit out of memory function mode.

• Repeat step 2 for recalling other memory locations.

To exit the Memory Mode and return to Operational Mode:



**5** Push and release  $\subseteq$  button.

If function button is pushed while listening/talking, programming will begin.
See Programming Memory
Locations on page.22.





## **Advanced Features**

## **Advanced Features**

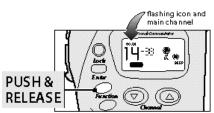
### Scan Function Scan Function

The MicroTalk 3 "zeros out" the subchannels to allow

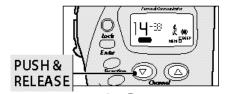
scanning of the main

channels.

● Rotate ON - OFF Volume Control © *clockwise*. An audible "tone" will indicate the unit is on and then the LCD will go through a 3 second self-test and then go to operational mode.



2 Push and release Function button until scan icon ĵų and main channel flashes.



- 3 Push and release buttons and the unit will begin scanning the main channels.
- Unit will continue to scan all main channels and stop, if an incoming transmission is

Your MicroTalk 3 will pick it up for 10 seconds. Within 10 seconds you can:

- A Push and hold button and talk. Your radio will return to operational mode on that channel.
- Push and release channel button to rescan the main channel.
- Proceed to subchannel scan on next page.

continued

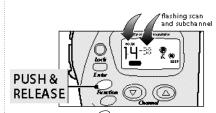


## **Advanced Features**

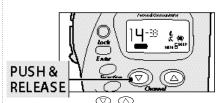
## **Advanced Features**

Scan Function Scan Function continued

To scan subchannels:



1 Push and release Function button and subchannel and scan icon will flash.

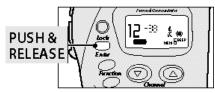


2 Push and release button and subchannel scanning begins and stops when an incoming transmission is detected.

Your MicroTalk 3 will pick it up for 10 seconds. Within 10 seconds you can:

- A Push and hold button and talk. Your radio will return to operational mode on that channel.
- B Push and release button to rescan the

To exit the Scan Mode and return to Operational Mode:



1 Push and release \_ button.

If you wish to proceed to the next function mode, push and release Function button. (Private Call Voice Scramble).





## **Advanced Features**

## **Advanced Features**

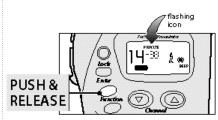
Private Call (Voice Scramble)

Private Call (Voice Scramble)

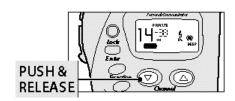
Private Call ensures that no one can eavesdrop on your conversation.

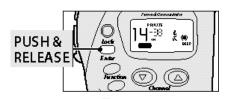
To engage the Private Call function:

 Rotate ON - OFF Volume Control 
 clockwise.
 An audible "tone" will indicate the unit is on and then the LCD will go through a 3 second self-test and then go to operational mode.



Push and release putton until PRIVATE icon flashes.





 Push and release 
 □
 button. Unit will go to operational mode or push function button to proceed to next function.

When you push and hold the PTT button,the unit exits out to operational mode.

If, after 10 seconds no selection is made, the unit will return to operational





## **Advanced Features**

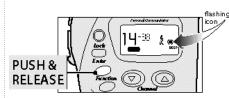
## **Advanced Features**

# Ringer/Vibrate Modes Modes Ringer/Vibrate Modes Your Microtalk 3 will signal

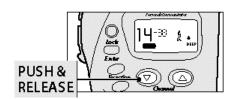
Your Microtalk 3 will signal you that there is an incoming transmission with either a tone or a vibration or both. To set for Ringer/Vibrate:

■ Rotate ON - OFF Volume Control 
○ clockwise.

An audible "tone" will indicate the unit is on and then the LCD will go through a 3 second self-test and then go to operational mode.



Push and release button until icon flashes.



**3** Push and release ♥ buttons until **±** icon appears for ringer mode.

continued

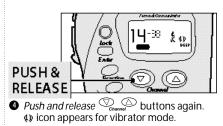




## **Advanced Features**

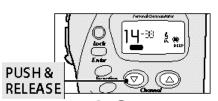
## Advanced Features

# Ringer/Vibrate Ringer/Vibrate Modes continued Modes

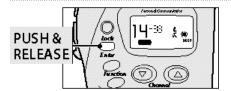


When you push and hold the PTT button,the unit exits out to operational mode.

If, after 10 seconds no selection is made, the unit will return to operational mode.



Push and release buttons again and both icons will be displayed for ringer/vibrate



After selecting the mode you desire *push* and release which button or button to proceed to next function.

Unit must be in operational mode to test ring/vibrate.

## Ringer/Vibrate Test

To test the ringer/vibrate mode:

- 1 Turn on unit.
- 2 Push and hold button.
- **③** Quickly push and release ⊊ button. Unit will ring, vibrate, or ring/vibrate for 5 seconds.





## **Advanced Features**

## **Advanced Features**

### Tone Settings

#### Tone Setting

PUSH & DEST

The Key Stroke Tone and Talk Confirmation Tone can be temporarily turned on or off during the operation of your MicroTalk 3 2-Way Radio.

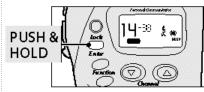
You will hear an audible tone when any button is pushed (except PTT button). You can turn the audible tone on or off by:

The Key Stroke Tone and Talk Confirmation Tone can be temporarily turned on or off at any time while in operational mode.





● Push and hold Enter button until BEEP icon disappears in the LCD display.



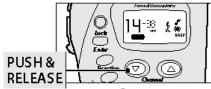
To return to the audible mode, push and hold button until BEEP icon appears in the LCD display.

Talk Confirmation Tone Indicator 🦨

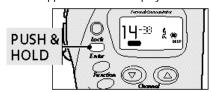
To temporarily eliminate the Talk Confirmation Tone:



• Push and release Control Push and release Punction button until Picon flashes.



2 Push and release Comment buttons until or icon appears in the LCD display.



Push and hold button. icon will disappear or press and hold function key to proceed to next function.

For more information see Talk Confirmation Tone section on page 14.

#### Note

To restore the Talk Confirmation Tone repeat steps 1-3 as shown to the left.

#### Note

When you push and hold the PTT button, the unit exits out to operational mode.

If, after 10 seconds no selection is made, the unit will return to operational mode.





## Advanced Features

## Frequency Range

## Lock Function Lock Function

Call button, Range Extender button and PTT button do not lock and are fully

is locked.

function 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. button flashes. Most buttons are locked.

   Push and release button. button flashes. The unit cannot lock while in
  - ② To "unlock" push and release button again. Buttons are "unlocked" and icon disap-

The MicroTalk 3 unit represents one of the most advanced FM two-way radios used.

Channel Frequency In MHz
462.5625
462.5875
462.6125
462.6375
462.6625
462.6875
462.7125
467.5625
467.5875
467.6125
467.6375
467.6625
467.6875
467.7125

Frequency Ranges





## Caring for Your micro / 12 & Radio

## Caring for Your MicroTalk 3 Radio

## Caring for Your MicroTalk 3 Radio

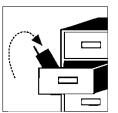
The MicroTalk 3 2-Way Radio will give you years of service if cared for properly.

Here are some suggestions:

Modifying or tampering with the radio's 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



1. Handle unit gently. 2. Keep away



from dust.



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



4. Avoid exposure to extreme temperatures.





## micro / 12 & Specifications

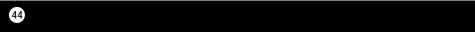
## Specifications

45

# I.GENERAL SPECIFICATIONS A.GENERAL CH=14 CHANNELS WITHIN 462-467 MHZ

B. RECEIVER		
	UNIT	
1.SENSITIVITY FOR 12 DB SINAD FOR CALL SIG.DETECTION uV	uV 0.2	0.25 0 0.4
2.MAX. AUDIO OUTPUT @10% TH	ID MW	100
3.MAX.S/N RATIO @ 1mV RF INPL	JT DB	45
4.SQUELCH a) SENS. b) ATTACK TIME c) CLOSING TIME	uV mS mS	0.2 120 200
5. AUDIO FREQUENCY RESP. @ 300 HZT @ 3000 HZ	DB DB	-6 -6
6.SIGNAL DISPLACEMENT BW	+/-KHZ	5
7.ADJACENT CH.REJECTION	DB	55
8.INTERMODULATION REJECTION	I DB	55
9.SPURIOUS RESPONSE REJECTIO	N DB	65

C.TR.	ANSMITTER		
1.	EFFECTIVE RADIATED POWER	UNIT mW	500
2.	CARRIER FREQ.STABILITY	IHZ	500
3.	MODULATION LIMITING	3.0	5.0
4.	CARRIER ATTACK TIME	mS	80
5.	AUDIO FREQUENCY RESPONSE @ 300 HZ @ 3000 HZ	DB DB	-6 -6
6.	AUDIO DISTORTION	%	3
7.	HUM NOISE	DB	45
8.	TRANSIENT FREQ.BEHAVIOR a) TX ON b) TX OFF	mS mS	
	DWER SUPPLY BATTERY LIFE (1:1:8 RATIO)	HR	24
2.	BATTERY	٧	4.8



## Limited Two Year Warranty

## **Optional Accessories**



#### Cobra Electronics Corporation

6500 West Cortland Street Chicago, Illinois 60707

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

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 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.



#### (1) NiMH Rechargeable Battery Pack

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



### 2 Port Desktop Charger

Charges your MicroTalk Radio and (1) NiCad battery pack FA-CH \$24.95



### Camouflage Cover



### Carrying Case

Durable nylon case perfectly fits your MicroTalk radio FA-CC \$19.95



#### Ear Bud Mic with PTT Lapel Microphone

Integrated speaker/mic adapter that fits in your ear. Includes MA-EBM \$29.95



#### Replacement Belt Clip

Remote microphone/speaker CA-40



#### Vox Mic

VOX (Voice Operated Transmitter) adapter allows you hands-free operation. MA-VOX \$49.95 If you wish, you can order directly from Cobra.

You Can Find These Fine Accessories At Your Local

Order by phone

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

Order by mail or fax

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





## **Accessory Order Form**

Item#	Description	Cost Ea.	Qty.	Amount
FA-BP	NiMH Rechargeable Battery Pack	\$29.95		
MA-EBM	Ear Bud Mic with PTT	\$29.95		
MA-VOX	Vox Mic	\$49.95		
FA-CH	2 Port Desktop Charger	\$24.95		
CA-40	Lapel Microphone	\$25.95		
FA-CC	Camouflage Cover Carrying Case	\$19.95		
FA-BC	Replacement Belt Clip	\$4.95		
rices subje	ct to change without notice.	Subtotal		
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%		(Tax if applicable) Shipping/handling <b>Total</b>		
				\$4.00
Michigan residen	nts add 4 %			

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 - 8:00 pm,M-F, CST.	Make check or money order (no stamps) payable to: Cobra Accessories Dept. 6500 West Cortland St. Chicago, IL 60707	
Please print clearly		
Name		
Address (No P.O. Box)		
City	State	
Zip		
Telephone ()		
Credit Card No.	Exp. Date	
Customer Signature	•	
Circle One: Visa MasterCa	ard Discover	

Allow 4 to 6 weeks for delivery. Offer valid in Continental U.S.only.



