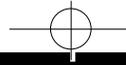


How to Use Your Cobra *MicroTALK™* 2-Way Radio

Contents	
Features	1
The FRS Story	A1
FCC Warnings	
Included Accessories	
Controls & Indicators	A2
Our Thanks to You	A3
Customer Support	A3
Operating your MicroTalk	
Battery Installation	2
LCD Display	4
Turning On	5
Auto Battery Power Saver	5
Select Main Channel (1-14)	6
Select CTCSS Subchannel (00-38)	7
Battery Low	9
Calling Another Party	10
Talking To Another Party	12
Talk Confirmation Tone	14
Listening For Another Party	14
Auto Squelch	15
Maximum Range Extender	15
Listening to Weather Channels	16
MicroTalk Range	18
Making Life Easier And Safer	19
External Microphone/Speaker Jack	21
Advanced Features	22
Programming Memory Locations	24
Using Memory Locations	28
Scan Function	30
Memory Scan Function	34
Private Call (Voice Scramble)	36
Ringer/Vibrate Modes	38
Tone Settings	42
Lock Function	44
Dual Watch Function	45
Frequency Ranges	48
Caring for Your MicroTalk	49
MicroTalk Specifications	51
Limited Two Year Warranty	53
Optional Accessories	54
Order Form	55
If You Think You Need Service	Back Cover

Features of This Product

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



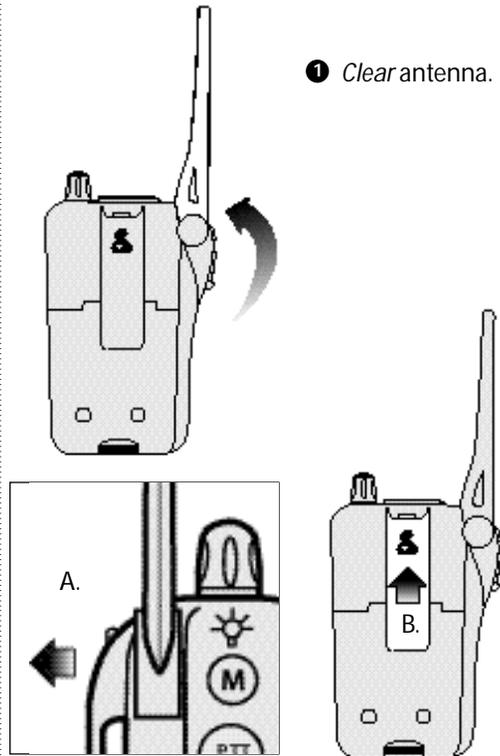
Operation

Operation

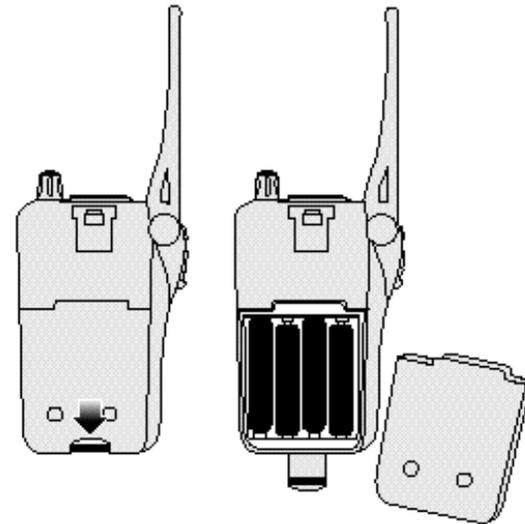
Battery Installation

Note
Batteries not included with MicroTalk 2-way radio.

Install Batteries



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



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

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

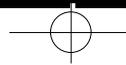
Note
Always use high quality alkaline or NiMH batteries.

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 54. Charge ports for recharging NiMH (Nickel Metal Hydride) battery pack are located on back of unit.

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

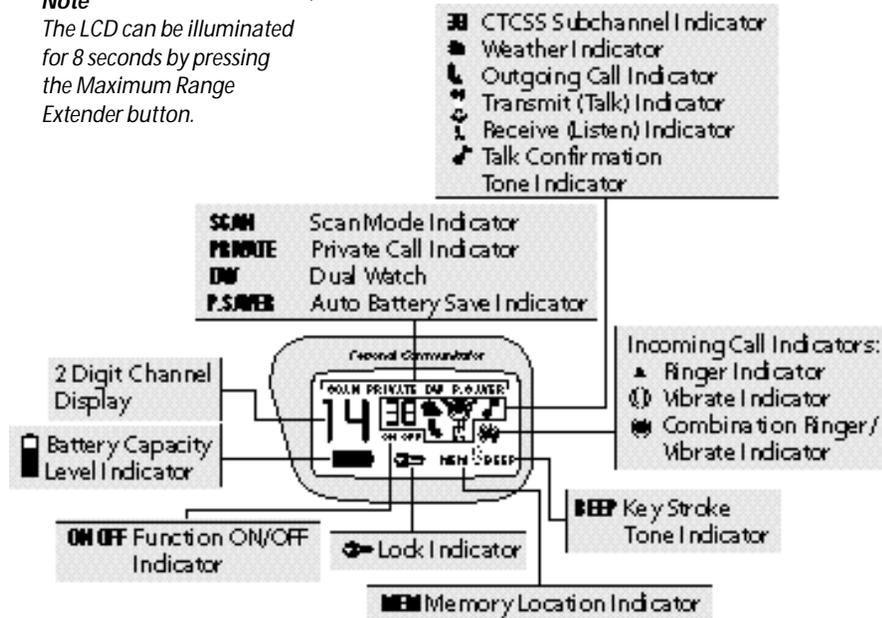


Operation

LCD Display

Note
The LCD can be illuminated for 8 seconds by pressing the Maximum Range Extender button.

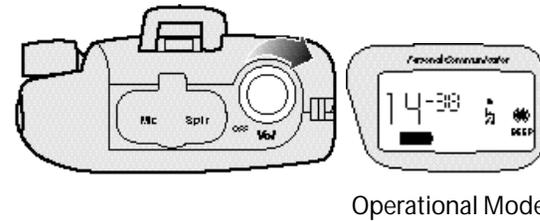
LCD Display



Operation

Turning On Your MicroTalk

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.



Turning On Your MicroTalk

Note
Whenever the unit is on you can receive communications.

Auto Battery Power Saver

Your MicroTalk 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.



The P.O.W.E.R. icon will flash.

Auto Battery Power Saver

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

Operation

Select Main Channel

Note

Units must be on same channel and subchannels to communicate.

Note

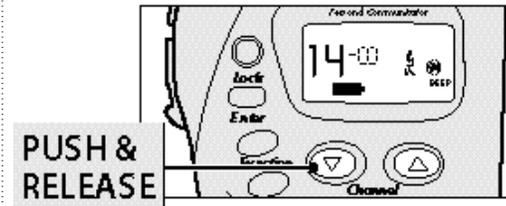
Channels 8-12 generally are less used and give better results for communications in most areas.

Note

Push and hold the   buttons for fast channel advance.

Select Main Channel (1-14)

- 1 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.

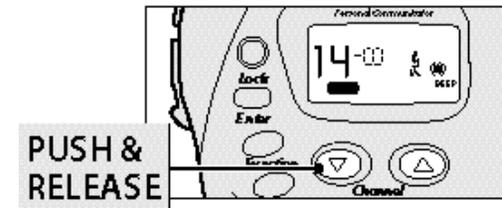


- 2 Select channel by pushing and releasing   buttons.

Select CTCSS Subchannel (00-38)

The CTCSS (Continuous Tone Controlled Squelch System) is a great convenience when you are in an area with many radios. It acts like a gate to transmissions from other radios. Once your radio is set to a CTCSS code, you will only hear transmissions from other radios on the same channel and the same CTCSS code.

- 1 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 Select main channel by pushing and releasing   buttons.

Operation

Select CTCSS Subchannel

Note

CTCSS 00 allows you to hear all CTCSS codes - 01 through 38 - in that channel

Note

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

Note

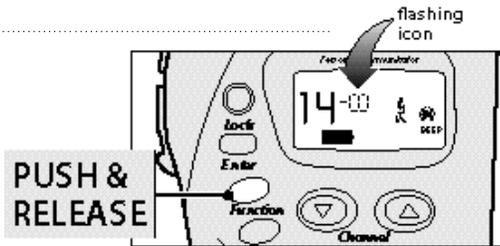
To return to operational mode and not save your last setting push and release  button.

continued

Operation

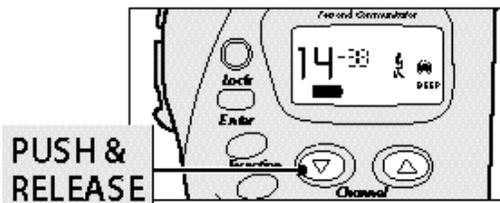
Select CTCSS Subchannel *continued*

Note
Push and hold the   buttons for fast channel advance.



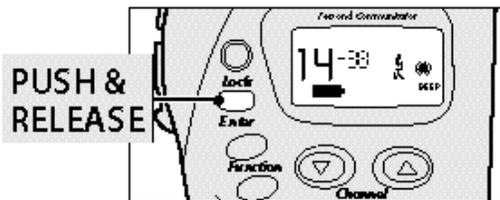
PUSH & RELEASE

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



PUSH & RELEASE

4 Select subchannel number by pushing and releasing   buttons.

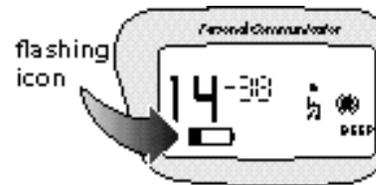


PUSH & RELEASE

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

Operation

Battery Low



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

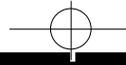
Replace alkaline batteries as soon as possible or recharge NiMH battery pack.

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 2 port desktop charger (item #FA-CH) are not included with this unit. See Accessories section on page 54.

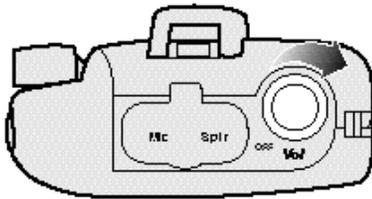


Operation

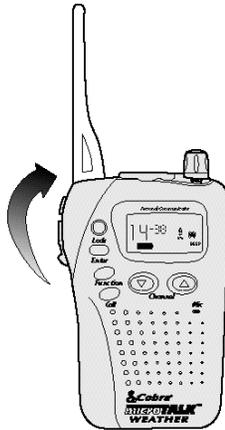
Calling Another Party

Calling Another Party

To alert another party that you wish to communicate:



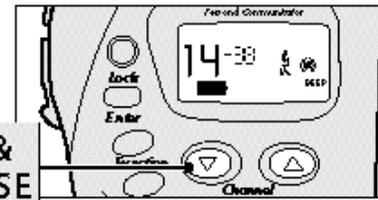
- 1 Turn on your MicroTalk 2-way radio. An audible "tone" will indicate the unit is on. The LCD will go through a 3 second self test and then to operational mode.



- 2 Place antenna in full upright position.

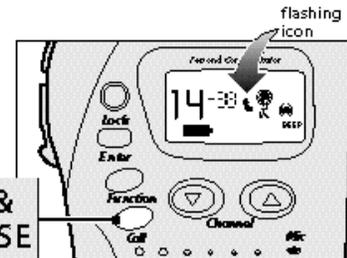
Operation

PUSH & RELEASE



- 3 Select desired channel by pushing and releasing buttons.

PUSH & RELEASE



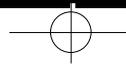
- 4 Push and release button. The icon will flash and the icon will remain on for 3 seconds. The unit you are calling will hear a 2 second ring tone.
- 5 Wait for the party's response or proceed to "Talking To Another Party" section on next page.

Note

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

Note

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



Operation

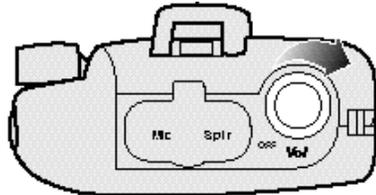
Talking to Another Party

Note

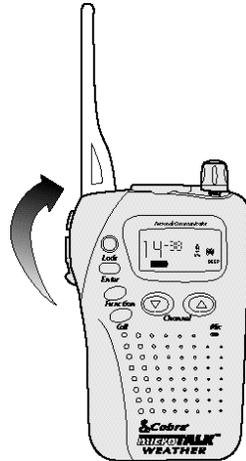
Both units must be on same channel and subchannel to communicate.

Talking To Another Party

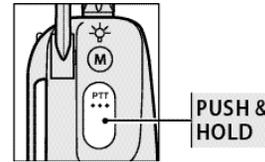
To send your outgoing message:



- 1 Turn on your MicroTalk 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.



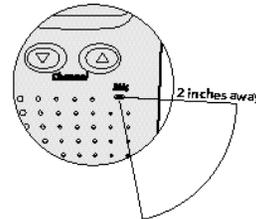
- 2 Place antenna in full upright position.



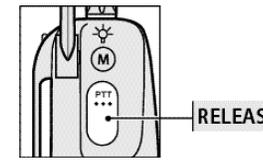
- 3 Push and hold PTT button.



- 4 The microphone icon will appear.



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



- 6 Release PTT button and listen for response.

Operation

Note

While PTT button is depressed you cannot receive incoming calls.

Note

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

Talk Confirmation Tone

Talk Confirmation Tone



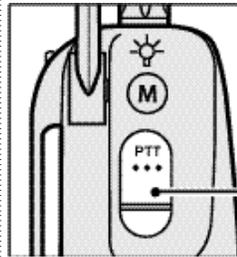
Your listener will hear an audible tone when you release the PTT button.

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:



RELEASE Listening mode.

- 1 Release  button to receive incoming transmissions.

Your MicroTalk 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 22.

Note

While PTT button is depressed you cannot receive incoming communications.

Operation

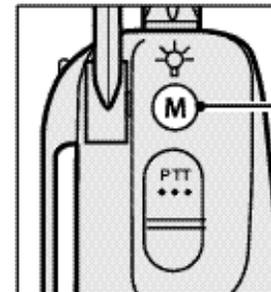
Auto Squelch

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

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



- 1 Push and hold the  button to allow all signals to enter.

Maximum Range Extender

Note

To learn more about the range of your MicroTalk, see MicroTalk Range Section on page 18.

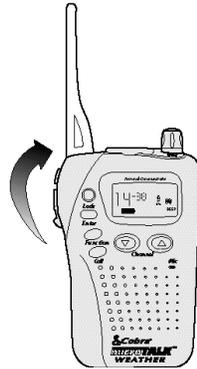
Range is dependent on battery condition and geographic territory.

Operation

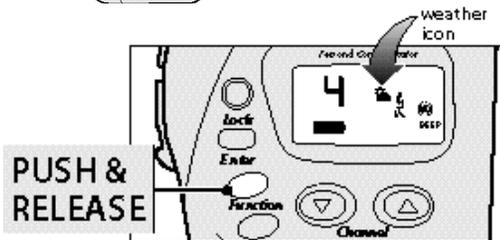
Listening to Weather Channels

Listening to Weather Channels

- 1 Turn on your MicroTALK 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 operational mode.



- 2 Place antenna in full upright position.

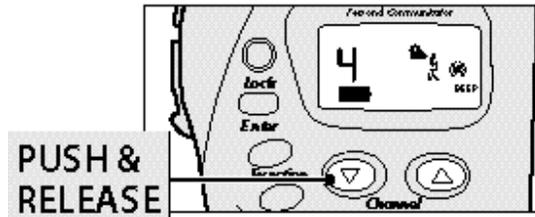


- 3 Push and release button until icon flashes. The last weather channel tuned will be displayed.

Operation

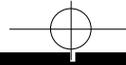
Listening to Weather Channels

Listening to Weather Channels



- 4 Press the buttons to select the appropriate channels for your area.

- 5 To exit weather reception, press the or button. The radio will go to the last FRS channel and CTCSS sub-channel.



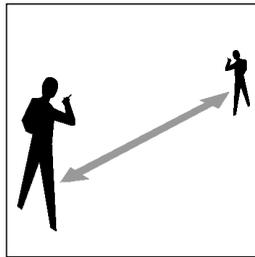
MicroTalk Range

Making Life Easier and Safer

MicroTalk Range

MicroTalk Range

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



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



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



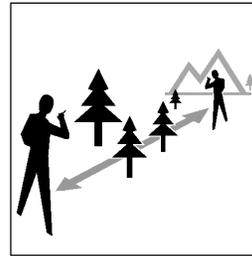
3. Range will be further reduced by dense foliage and hilly terrain.

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

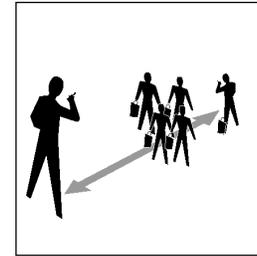
MicroTalk 2-Way Radios Can Make Life Easier and Safer

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

Some suggestions include:



1. Talking with fellow hikers.



2. Keeping track of the kids in a shopping mall.

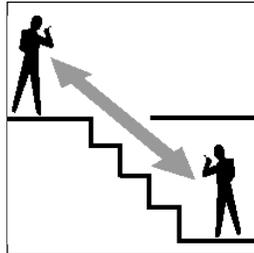
MicroTalk 2-Way Radios Can Make Life Easier and Safer

continued

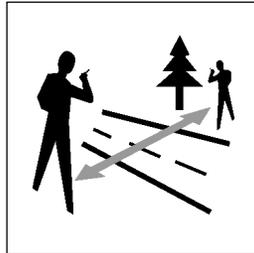
Making Life Easier and Safer

MicroTalk 2-Way Radios Can Make Life Easier and Safer

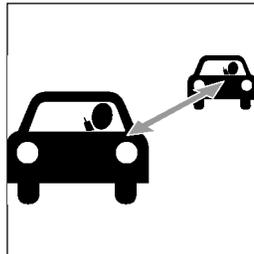
MicroTalk 2-Way Radios Can Make Life Easier and Safer *continued*



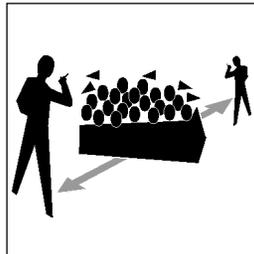
3. Communicating between basement and first, second or third floor.



4. Talking to a neighbor or a friend.



5. Checking on traveling companions in another car.



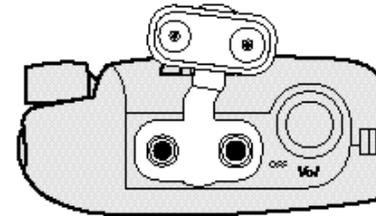
6. Agree on a meeting spot after an event.

External Microphone/Speaker Jack

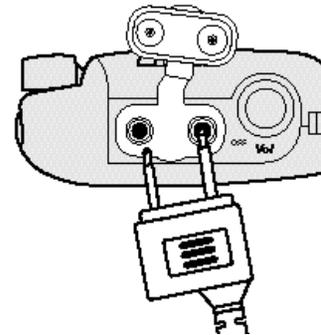
External Microphone/Speaker Jack

Your MicroTalk 2-Way Radio can be fitted with a variety of accessories, (not included) freeing your hands for other tasks.

To attach an external microphone/speaker accessory:



- 1 Open Mic/Spkr tab on top of unit.



- 2 Insert plug into the Mic/Spkr jacks.

External Microphone/ Speaker Jack

Advanced Features

Advanced Features

Note

When using or programming functions, pushing and releasing the  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  button.

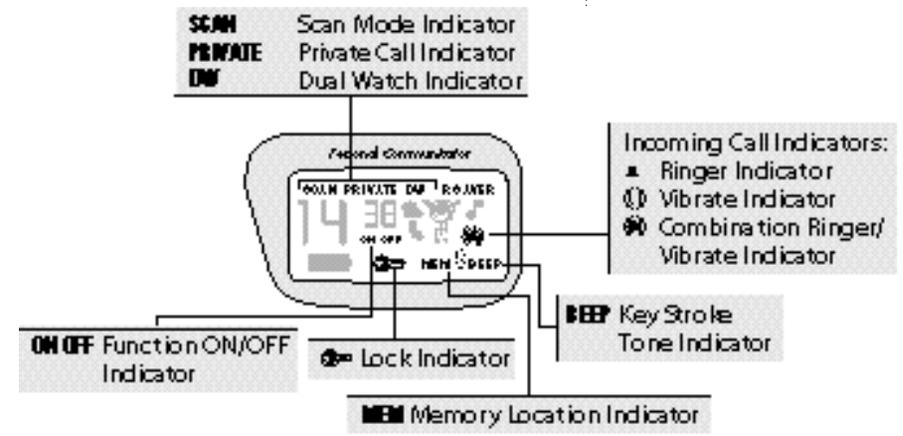
Advanced Features

Your MicroTalk has many advanced features not found on other 2-way radios.

These include:

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

Advanced Features



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

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

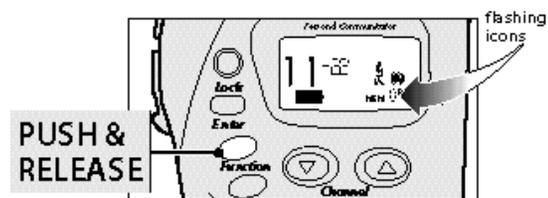
Advanced Features

Programming Memory Locations

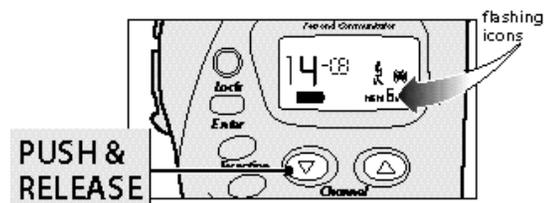
Programming Memory Locations

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

- 1 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.

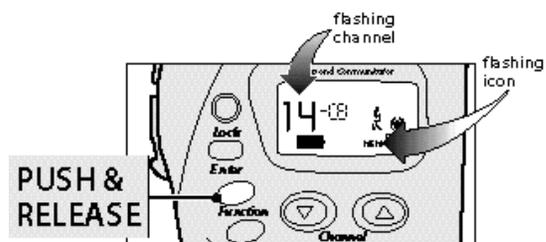


- 2 Push and release  button until  icon and a memory location flashes.

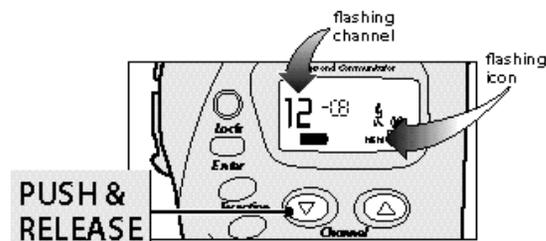


- 3 Select memory location you wish to change by pushing and releasing   buttons (Use MEM 6 for this example).

Advanced Features



- 4 Push and release  button again. 14MAIN CHANNEL will flash and only the  icon will remain flashing.



- 5 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 28.

continued

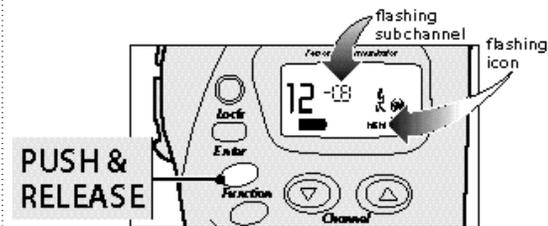
Advanced Features

Programming Memory Locations

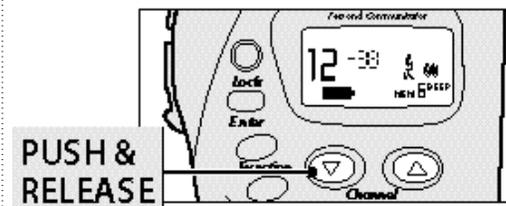
Note

Push and hold the   buttons for fast channel advance.

Programming Memory Locations *continued*



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



- 7 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.

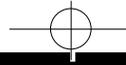
Advanced Features

Your MicroTalk will stay in the subchannel section until you:

- A Push and hold  button to set memory location and stay in memory scan.
- or...
- B Push and release  button to return to operational mode.
- or...
- C Push and release  button to proceed to next function mode (Scan).

Note

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

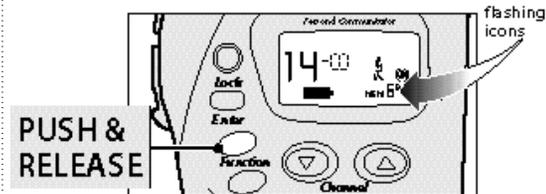


Advanced Features

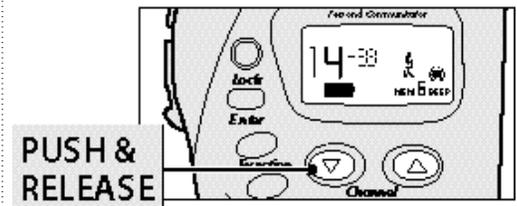
Using Memory Locations

Memory Channel Recall/Talk

To recall a channel in memory:

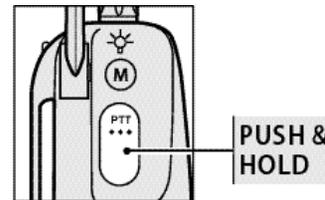


- 1 Push and release **Function** button until **MEM** icon and a memory location flashes.



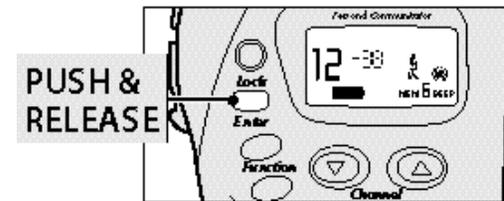
- 2 Select desired memory location you wish to recall (0-9) by pushing and releasing **Channel** buttons.

Advanced Features



- 3 Push and hold **PTT** button and talk. Your radio will stay on this recalled location until you exit out of memory function mode.
- 4 Repeat step 2 for recalling other memory locations.

To exit the Memory Mode and return to Operational Mode:



- 5 Push and release **Enter** button.

Note

If function button is pushed while listening/talking, programming will begin. See Programming Memory Locations on page 24.

Advanced Features

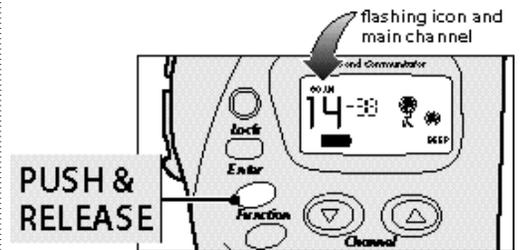
Scan Function

Note

The MicroTalk "zeros out" the subchannels to allow scanning of the main channels.

Scan Function

- 1 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  button until  icon and 14 main channel flashes.

Advanced Features

PUSH & RELEASE



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

Your MicroTalk 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.
- or...
- B Push and release   button to rescan the main channel.
- or...
- C Proceed to subchannel scan on next page.

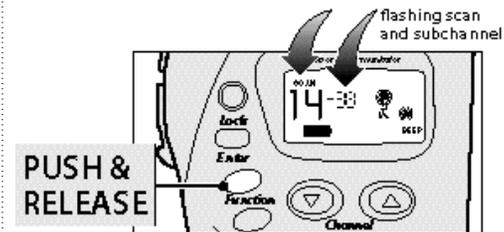
continued

Advanced Features

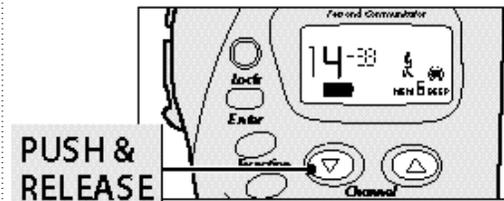
Scan Function

Scan Function *continued*

To scan subchannels:



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



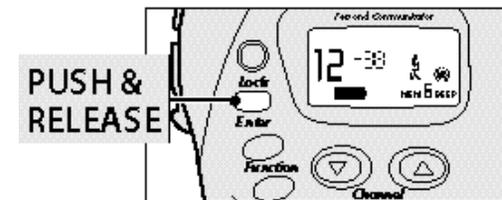
- 2 Push and release button and subchannel scanning begins and stops when an incoming transmission is detected.

Advanced Features

Your MicroTalk 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.
- OR...
- B Push and release button to rescan the main channel.

To exit the Scan Mode and return to Operational Mode:



- 1 Push and release button.

Note

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

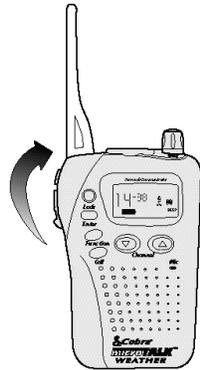
Advanced Features

Memory Scan Function

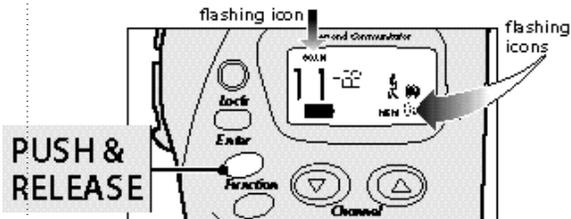
Memory Scan Function

Memory Scan conveniently allows you to access frequently used channel and sub-channel combinations.

- 1 Turn on your MicroTALK 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.



- 2 Place antenna in full upright position.



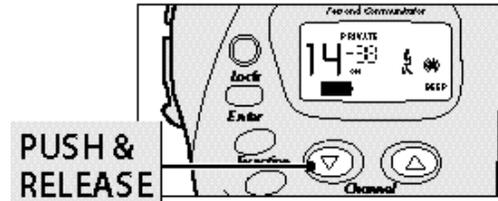
- 3 Push and release button until MEM, and SCAN icon flash.



Advanced Features

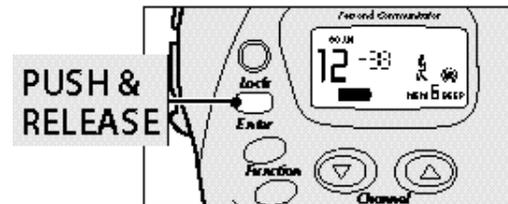
Memory Scan Function

Memory Scan Function *continued*



- 4 Push and release the buttons to begin the scan mode.
- 5 The radio will stop at the first memory location for 1/2 second.

- If no signal is detected it will move on.
- If a signal is detected, it will stay at that location for 10 seconds. If you want to stay at that location for more than 10 seconds, press and release the Push to Talk button.



- 6 To leave Memory Scan, press and release the or button at any time.

Advanced Features

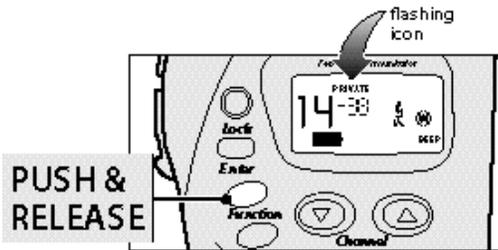
Private Call (Voice Scrambling)

Private Call (Voice Scrambling)

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

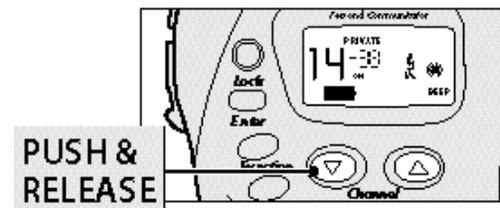
To engage the Private Call function:

- 1 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.

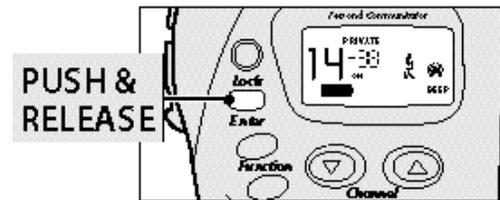


- 2 Push and release  button until  icon flashes.

Advanced Features



- 4 Push and release  buttons until  icon is visible.

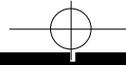


- 4 Push and release  button. Unit will go to operational mode or push function button to proceed to next function.

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.



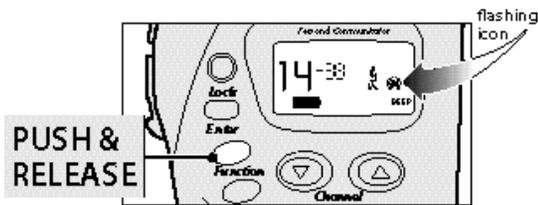
Advanced Features

Ringer/Vibrate Modes

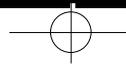
Ringer/Vibrate Modes

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

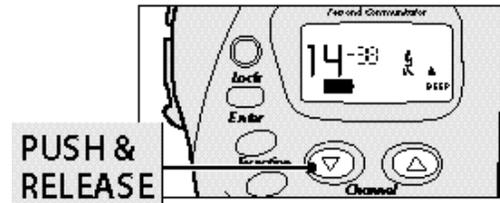
- 1 Rotate ON - OFF Volume Control clockwise. An audible "tone" will indicate the unit is on and then the LCD will go through a 3 second self-test and then go to operational mode.



- 2 Push and release button until icon flashes.



Advanced Features



- 3 Push and release buttons until icon appears for ringer mode.

continued



Advanced Features

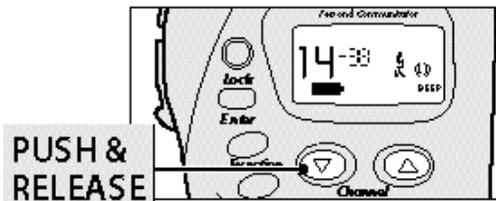
Ringer/Vibrate Modes

Note

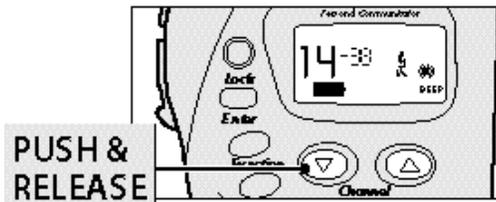
When you push and hold the PTT button, the unit exits out to operational mode.

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

Ringer/Vibrate Modes *continued*

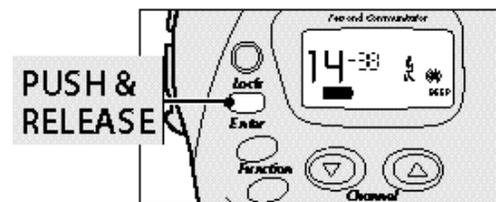


- ④ Push and release buttons again. icon appears for vibrator mode.



- ⑤ Push and release buttons again and both icons will be displayed for ringer/vibrate mode.

Advanced Features



- ⑥ After selecting the mode you desire *push and release* button or button to proceed to next function.

Note

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 4 seconds.

Advanced Features

Tone Settings

Note

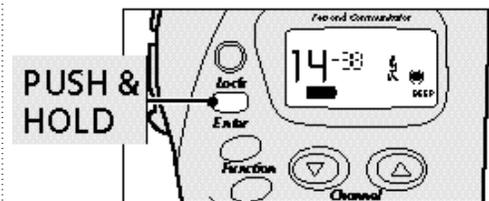
The Key Stroke Tone and Talk Confirmation Tone can be temporarily turned on or off at any time while in operational mode.

Tone Setting

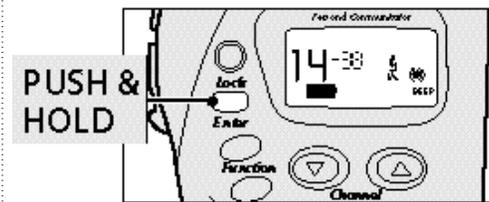
The Key Stroke Tone and Talk Confirmation Tone can be temporarily turned on or off during the operation of your MicroTalk 2-Way Radio.

Key Stroke Tone Indicator

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



- 1 Push and hold **Enter** button until **KST** icon disappears in the LCD display.



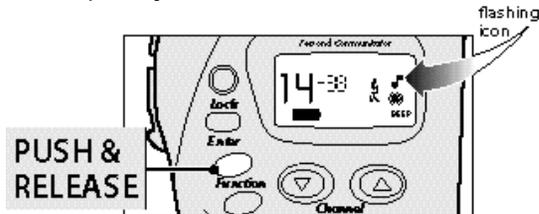
- 2 To return to the audible mode, push and hold **Enter** button until **KST** icon appears in the LCD display.

42

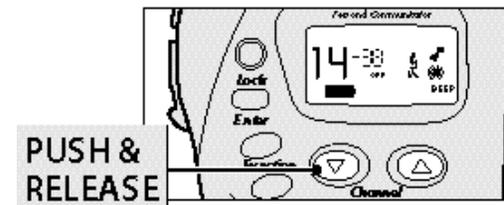
Advanced Features

Talk Confirmation Tone Indicator

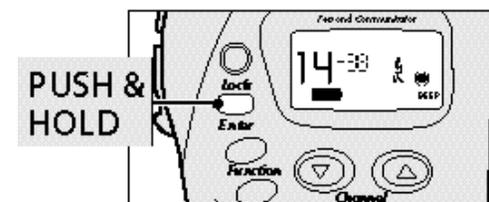
To temporarily eliminate the Talk Confirmation Tone:



- 1 Push and release **Function** button until **TCT** icon flashes.



- 2 Push and release **Function** button until **TCT OFF** icon appears in the LCD display.



- 3 Push and hold **Enter** button. **TCT OFF** icon will disappear or press and hold function key to proceed to next function.

Note

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

Note

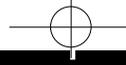
To restore the Talk Confirmation Tone repeat steps 1-3 as shown to the left.

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.

43



Advanced Features

Lock Function

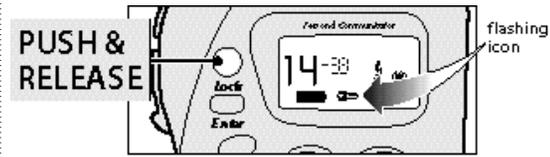
Note
Call button, Range Extender button and PTT button do not lock and are fully operational while the unit is locked.

The unit cannot lock while in function mode.

Lock Function

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

To engage the LOCK function:



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

Dual Watch Function

Dual Watch allows you to simultaneously monitor any two preselected Family Radio Service channels.

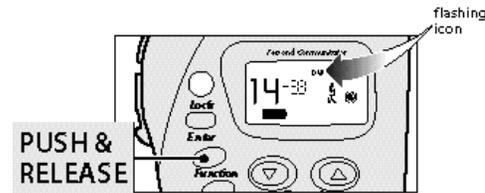
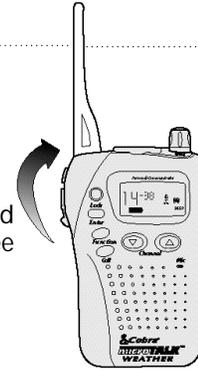
- 1 Turn on your MicroTALK 2-way radio. An audible "tone" will indicate the unit is on. The LCD will go through a 3 second self test and then go to operational mode.

continued

Advanced Features

Dual Watch Function

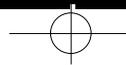
- 2 Place antenna in full upright position.
- 3 Select first channel and CTCSS code (please see pages 6 and 7).



- 4 Press and release button until DW icon flashes.
- 5 Press buttons to select second channel.

Dual Watch Function

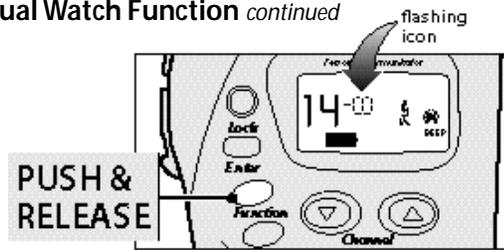
continued



Advanced Features

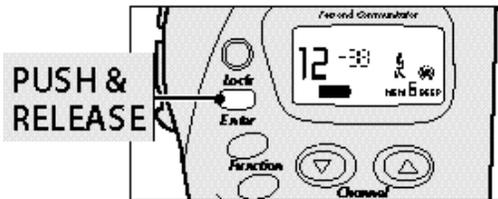
Dual Watch Function

Dual Watch Function *continued*



6 Press button to set CTCSS. CTCSS channel numbers will flash.

7 Press buttons to select CTCSS.



8 Press button. This will store the second channel and CTCSS and start Dual Watch.

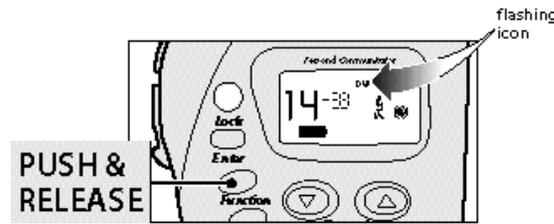
9 To terminate Dual Watch and go to normal mode, press or .

continued

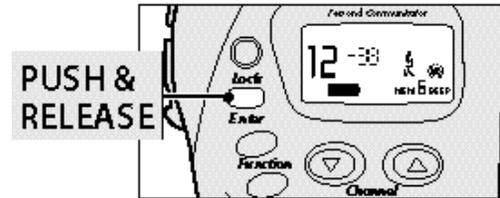
Advanced Features

Dual Watch Function

Dual Watch Function *continued*



10 To enter Dual Watch when the second channel and CTCSS are already stored, press the button until DW icon flashes.



11 Press button. Dual watch will begin.

12 Press or to exit Dual Watch mode.

Frequency Range

Frequency Ranges

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

FRS Channel	Channel Frequency In MHz	FRS Channel	Channel Frequency In MHz
1	462.5625	8	467.5625
2	462.5875	9	467.5875
3	462.6125	10	467.6125
4	462.6375	11	467.6375
5	462.6625	12	467.6625
6	462.6875	13	467.6875
7	462.7125	14	467.7125

CTCSS Channel	Frequency	CTCSS Channel	Frequency
01	67.0 Hz	21	136.5 Hz
02	71.9 Hz	22	141.3 Hz
03	74.4 Hz	23	146.2 Hz
04	77.0 Hz	24	151.4 Hz
05	79.7 Hz	25	156.7 Hz
06	82.5 Hz	26	162.2 Hz
07	85.4 Hz	27	167.9 Hz
08	88.5 Hz	28	173.8 Hz
09	91.5 Hz	29	179.9 Hz
10	94.8 Hz	30	186.2 Hz
11	97.4 Hz	31	192.8 Hz
12	100.0 Hz	32	203.5 Hz
13	103.5 Hz	33	210.7 Hz
14	107.2 Hz	34	218.1 Hz
15	110.9 Hz	35	225.7 Hz
16	114.8 Hz	36	233.6 Hz
17	118.8 Hz	37	241.8 Hz
18	123.0 Hz	38	250.3 Hz
19	127.3 Hz		
20	131.8 Hz		

Caring for Your **microTALK™** Radio

Weather Channel	Channel Frequency In MHz	Weather Channel	Channel Frequency In MHz
0	163.275	5	162.450
1	162.550	6	162.500
2	162.400	7	162.525
3	162.475	8	161.650
4	162.425	9	161.775

Weather Frequency Ranges

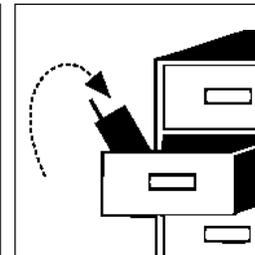
Caring for Your MicroTalk Radio

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

Here are some suggestions:



1. Handle unit gently.



2. Keep away from dust.

Caring for Your MicroTalk Radio

Note

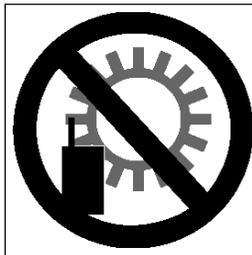
Modifying or tampering with the radio's internal components can cause malfunction and will invalidate the warranty. If your radio is not performing as it should, please call Cobra at 773.889.3087. Do not return the unit to the retailer.

Caring for Your *MICROTALK™* Radio

MICROTALK™ Specifications



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



4. Avoid exposure to extreme temperatures.

I. GENERAL SPECIFICATIONS

A. GENERAL

CH=14 CHANNELS WITHIN 462-467 MHZ

B. RECEIVER

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

micROTALK™ Specifications**Limited Two Year Warranty****C. TRANSMITTER**

	UNIT	
1. EFFECTIVE RADIATED POWER	mW	500
2. CARRIER FREQ. STABILITY	HZ	500
3. MODULATION LIMITING	KHZ	2.5
4. CARRIER ATTACK TIME	mS	80
5. AUDIO FREQUENCY RESPONSE		
@ 300 HZ	DB	-6
@ 3000 HZ	DB	-6
6. AUDIO DISTORTION	%	3
7. HUM and NOISE	DB	45
8. TRANSIENT FREQ. BEHAVIOR		
a) TX ON	mS	30
b) TX OFF	mS	5

D. POWER SUPPLY

1. BATTERY LIFE (1:1:18 RATIO)	HR	24
2. BATTERY (4 x AAA)	V	4.8 - 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 a 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 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.



Cobra Electronics Corporation

6500 West Cortland Street
Chicago, Illinois 60707

Optional Accessories

Accessory Order Form



NiMH Rechargeable Battery Pack

High performance Rechargeable Nickel Metal Hydride battery pack
FA-BP \$29.95



2 Port Desktop Charger

Charges your MicroTalk Radio and (1) NiMH battery pack
FA-CH \$29.95



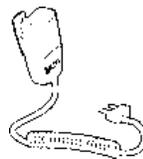
Carrying Case

Durable nylon case perfectly fits your MicroTalk radio
FA-CC (Camouflage) \$19.95
FA-CCB (Black) \$19.95



Ear Bud Microphone

Miniature microphone and ear-bud for private listening.
MA-EBM \$29.95



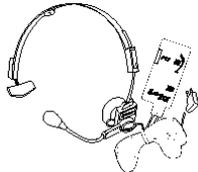
Lapel Speaker/ Microphone

Remote speaker/microphone combination.
MA-SM \$24.95



Replacement Belt Clip

FA-BC \$4.95



Vox Headset/ Mic

VOX (Voice Operated Transmitter) provides hands-free operation.
MA-VOX \$49.95

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.-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.

Order over the Web: www.cobraelec.com

Item #	Description	Cost Ea.	Qty.	Amount
FA-BP	NiMH Rechargeable Battery Pack	\$29.95		
MA-EBM	Ear Bud Microphone	\$29.95		
MA-VOX	Vox Headset/Mic	\$49.95		
FA-CH	2 Port Desktop Charger	\$29.95		
MA-SM	Lapel Speaker/Microphone	\$24.95		
FA-CC	Camouflage Carrying Case	\$19.95		
FA-CCB	Black Carrying Case	\$19.95		
FA-BC	Replacement Belt Clip	\$4.95		

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%

Subtotal _____

(Tax if applicable) _____

Shipping/handling _____

Total _____

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 MasterCard Discover

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

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.



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 - 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 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 or 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.
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 warranty 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 assistance.

Cobra Electronics Corp. © 1999
Printed in Thailand

Part No. 480-284-P-001

Operating Instructions for your



2 Way Radio

FRS 310 WX



"Ingenious Products for Easier Communication."

The Family Radio Service Story

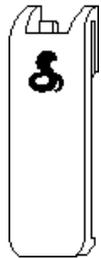
The Family Radio Service Story

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 radio 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.



1



2



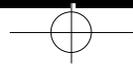
FCC Warnings

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

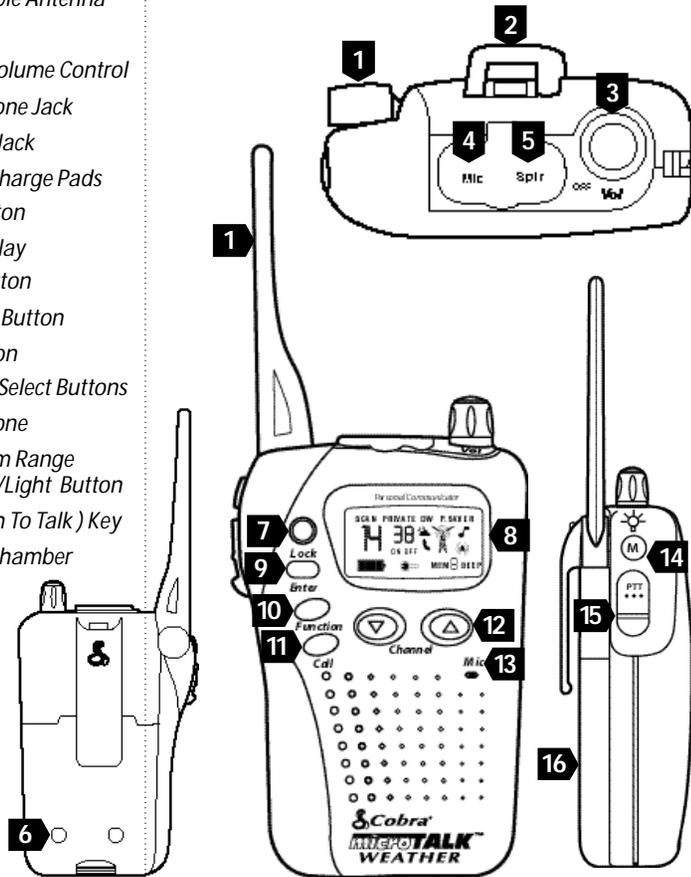
- 1 Removable Belt Clip
- 2 Wrist Strap

A1



Controls and Indicators

- 1. Retractable Antenna
- 2. Belt Clip
- 3. On/Off Volume Control
- 4. Microphone Jack
- 5. Speaker Jack
- 6. Battery Charge Pads
- 7. Lock Button
- 8. LCD Display
- 9. Enter Button
- 10. Function Button
- 11. Call Button
- 12. Channel Select Buttons
- 13. Microphone
- 14. Maximum Range Extender/Light Button
- 15. PTT (Push To Talk) Key
- 16. Battery Chamber



Thank you for purchasing this Cobra MicroTalk 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 - 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

This device complies with part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference.