PMR250-UK.qx 6/17/99 2:55 PM Page

How to Use Your Cobra

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Features of This Product

• UHF FM Frequencies

• No Air-time Fees

• Up to 3 km (2-mile) Range

• 8 Main Channels

• 38 CTCSS Subchannels

LCD Function Display

Talk Confirmation Tone

Call/Ring Button

• Recharging Pads

Retractable Antenna

Auto Battery Saver Circuity

Auto Squelch

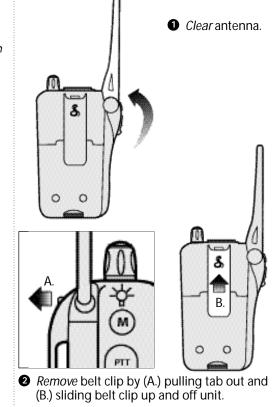
• Lock Key

Ring Notification

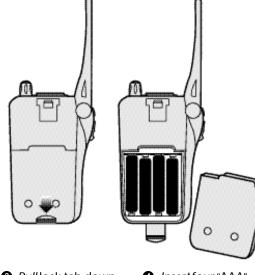
Wrist Strap/Belt Clip

Battery Installation

Note Batteries not included with MicroTalk 2-way radio.



Install Batteries



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

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

Operation

Note

Always use high-quality alkaline or NiMH batteries.

Incorrect positioning can damage both the batteries and the unit.

Only the Cobra NiMH battery pack (part no. PMR-BP) can be recharged via the Desktop Charger (part no. PMR-CH).

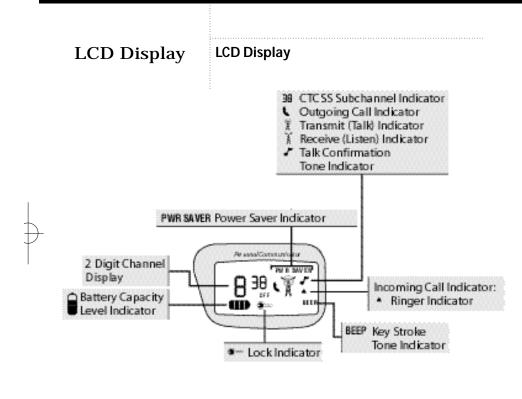
See Accessories on page 30. Charge ports for recharging NiMH (Nickel Metal Hydride) battery pack are located on back of unit.

Note

3

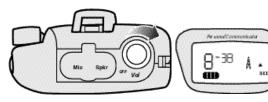
When batteries are low or need charging the BATT LOW indicator will blink. Replace alkaline batteries or recharge NiMH battery pack.

Operation



Turning On Your MicroTalk

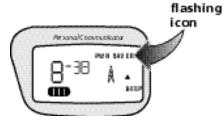
Rotate ON - OFF Volume Control O *clockwise*. An audible "tone" will indicate that the unit is on. The LCD will go through a 3-second self-test and then go to operational mode.



Operational Mode

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 we sure icon will flash.

Turning On Your MicroTalk

Note

Whenever the unit is on you can receive communications.

Auto Battery Power Saver

Note

5

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

Operation

Select Main Channel

Note

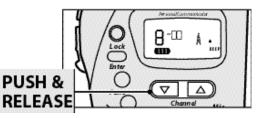
Units must be on same channel and subchannels to communicate.

Note

Push and hold the buttons for fast channel advance.

Select Main Channel (1-8)

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



2 Select channel by pushing and releasing either \bigtriangledown button.

Select CTCSS Subchannel

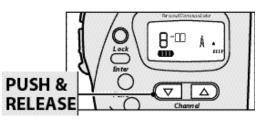
6

Select CTCSS Subchannel (00-38)

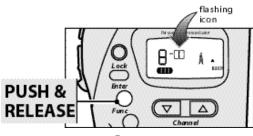
The CTCSS (Continuous Tone Controlled Squelch System) is a great convenience when you are in an area with many radios. It acts like a gate to transmissions from other radios. Once your radio is set to a CTCSS code, you will only hear transmissions from other radios on the same channel and the same CTCSS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

Select CTCSS Subchannel (00-38) continued

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



Select main channel by pushing and releasing either
▼
▲ button.



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

Select CTCSS Subchannel

Note

If you push and hold the \bigcap_{rac} button, the LCD display will cycle through the different functions.

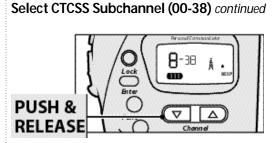
Note

continued

(7)

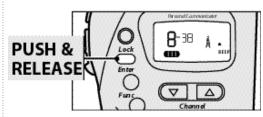
To return to operational mode and not save your last setting push and release button.

Select CTCSS Subchannel



Note

Push and hold the \bigcirc hand hold the buttons for fast channel advance.



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

Battery Low



When the unit is in normal use the **I** 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.

Operation

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 pack (part no. PMR-BP) pack can be recharged via the Desktop Charger (part no. PMR-CH).

Note

9

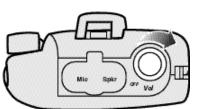
NiMH rechargeable battery Pack (item no. PMR-BP) and 2 port desktop charger (item no. PMR-CH) are not included with this unit. See Accessories section on page 30.

Operation

Calling Another Party

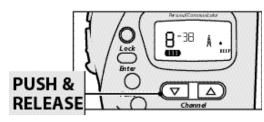
Calling Another Party

To alert another party that you wish to communicate:

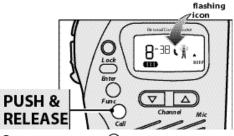


 Turn on your MicroTalk 2-way radio. An audible "tone" will indicate that the unit is on. The LCD will go through a 3-second selfteshand then to operational mode.

Place antenna in full upright position.



Select desired channel by pushing and releasing either ♥ △ button.



- Push and release O button. The Lindicator icon will flash and the P icon will remain on for 3 seconds. The unit you are calling will emit a 2 second ring tone.
- 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.

10

Operation

Talking to Another **Talking To Another Party** To send your outgoing message: (M) Party PUSH & Note HOLD While PTT button is depressed you cannot 3 Push and hold button. receive incoming calls. Note Re sana/Convoroinata Both units must be on same channel to communicate. Turn on your MicroTalk 2-way radio.
An audible "tone" will indicate that the unit is Ŧ 8 on. The LCD will go through a 3-second self-EE EI æ test and then go to operational mode. ∇ \triangle cm away 2 Place antenna in full (M) upright position. PTT RELEASE Note 8-38 When you release the PTT button, the person you 6 *Release* button **5** Hold mic about are talking to will hear a and listen for 5 cm from mouth. tone indicating that it's OK Speak in response. to talk. See Talk a normal voice. Confirmation Tone section on page 14. TALK 12 13

Operation

Talk Confirmation Tone



Talk Confirmation Tone

Listening For Another Party

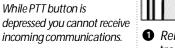
Your listener will hear an audible tone when you release the PTT button.

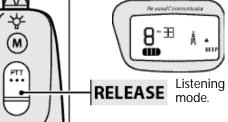
This alerts the other party that you have finished talking and it's OK for them to begin talking.

Listening For Another Party

Note







 Release
button to receive incoming transmissions.

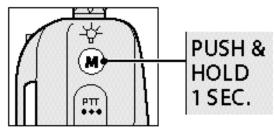
Your MicroTalk is always in listening mode when the PTT button is not pressed and you are not in function mode. See Advanced Features section on page 20.

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 (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, see MicroTalk Range Section on page 16.

Range is dependent on battery condition and the features of the terrain.



MicroTalk Range

Making Life Easier and Safer

MicroTalk Range

MicroTalk Range

Your MicroTalk Radio has a range of up to 3 km (2miles). This effective range may be shortened under some conditions.





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



16

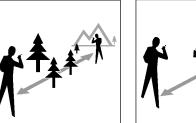
- 2. Range can be reduced by buildings and foliage in the path of the signal.
- 3. Range will be further reduced by dense foliage and hilly terrain.

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

MicroTalk 2-Way Radio Can Make Life Easier and Safer

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

Some suggestions include:



1. Talking with fellow hikers.



2. Keeping track of your family and friends in a shopping centre.

continued



Making Life Easier and Safer

External Microphone/Speaker Jack

MicroTalk 2-Way Radio Can Make Life Easier and Safer



Note

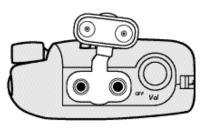
In some countries it may be illegal to use a hand held radio whilst driving a motor vehicle.

- MicroTalk 2-Way Radio Can Make Life Easier and Safer continued
- 3. Communicating 4. Talk
 - Communicating 4. Talki between different neig floors of a building. frien
- 4. Talking to a neighbour or a friend.

External Microphone/Speaker Jack

Your MicroTalk 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:



• Open Mic/Spkr tab on top of unit.



Note

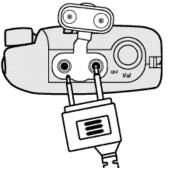
External microphone/ speaker (item #FA-SM) is not included with this unit. See Accessories section on page 30 for a vailable units.



5. Checking on travelling companions in another car.



6. Agreeing on a meeting spot after an event.



2 Insert plug into the Mic/Spkr jacks.



Advanced Features

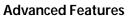
Advanced Features

Note

When using or programming functions, pushing and releasing the \bigcirc_{Entry} button or the \bigcirc_{Entry} button will save all entered information.

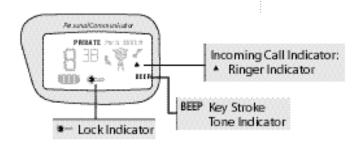
Note

To exit out of function mode and return to operational mode without saving entered information simply press the \boxed{m} button.



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

- Ring Notification Modes
- Tone Indicator Settings
- Key Stroke Tone
- Talk Confirmation Tone
- Lock Key



Note

21

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

23

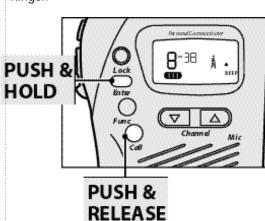
Ringer Modes

Ringer Modes

Your MicroTalk will signal you that there is an incoming transmission with a ring tone. To set Ringer:



Unit must be in operational **HOLD** mode to test ring.



Ringer Test

To test the ringer mode:

- Rotate ON OFF Volume Control O 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 hold \bigcirc button.
- Quickly push and release Quickly push and r

Advanced Features

Tone Settings

Tone Setting

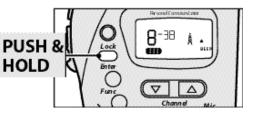
The Key Stroke Tone and Talk Confirmation Tone can be temporarily turned on or off during the operation of your MicroTalk 2-Way Radio.

Key Stroke Tone Indicator FEF

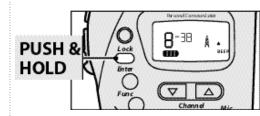
You will hear an audible tone when any button is pushed (except PTT button). To turn the audible tone on or off:

Note

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



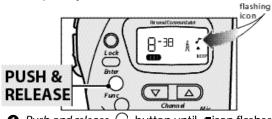
Push and hold — button until H IP icon disappears from the LCD display.



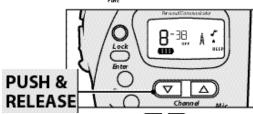
To return to the audible mode, push and hold button until price icon appears in the LCD display.

Talk Confirmation Tone Indicator

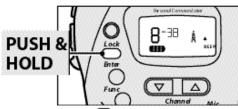
To temporarily eliminate the Talk Confirmation Tone:



● Push and release O button until ricon flashes.



2 Push and release either → button until + icon appears in the LCD display.



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.



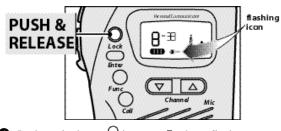
Caring for Your microTALK Radio

Lock Function

Lock Function

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

To engage the LOCK function:



- Push and release O button. Im icon flashes. Most buttons are locked.
- To "unlock" push and release Obutton again. Buttons are "unlocked" and condisappears.

Caring for Your MicroTalk Radio

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

Here are some suggestions:



 Handle unit gently.



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



4. Avoid exposure to extreme temperatures. Caring for Your MicroTalk Radio

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.



microTALK Specifications

microTALK Specifications

29

I.GENERAL	SPECIFICATIONS			
A.FREQUENCY				
PMR Channel	Channel Frequency In MHz			
1 2 3 4 5 6 7 8	446.00625 446.01875 446.03125 446.04375 446.05625 446.06875 446.08125 446.09375			
B. RECEIN		UNIT		
FOR	Sitivity 212 db Sinad 2 call Sig.detection	μV μV	0.25 0.2	
	X. AUDIO OUTPUT @10% THD	mW	100	
-	X.S/N RATIO @ 1mV RF INPUT	dB	45	
b) A c) Cl	ENS. TTACK TIME LOSING TIME	μV ms ms	0.2 120 200	
@ 30	dio Frequency Resp. 00 Hz 000 Hz	dB dB	-6 -6	
6. SIGN	NAL DISPLACEMENT BW	+/-kHz	5	
7. ADJ	ACENT CH.REJECTION	dB	55	
8. INTE	ERMODULATION REJECTION	dB	55	
9. SPU	RIOUS RESPONSE REJECTION	dB	65	

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 @ 3000 HZ	dB dB	-6 -6
6. AUDIO DISTORTION	%	3
7. HUM and NOISE	dB	45
8. TRANSIENT FREQ.BEHAVIOR a) TX ON b) TX OFF	ms ms	5
D. POWER SUPPLY		
1. BATTERY LIFE (1:1:18 RATIO)	HR	24
2. BATTERY	V	4.8 - 6.0

The use of this 2-way radioproduct involves the public airways and its use may be subject to local laws, regulations, and ordinances. Before using the product you should check to see that the contemplated use does not violate any local law, regulation or ordinance that may be applicable.

Accessories



(1) NiMH Rechargeable Battery Pack

High performance Nickel Metal Hydride battery pack for multiple recharging PMR-BP

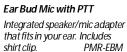






Durable case perfectly fits your MicroTalk radio PMR-CCB







connection. PMR-SM



Lapel Microphone Replacement Belt Clip Remote microphone/speaker

PMR-BC

You Can Find These High-Quality Accessories At Your Local Cobra Dealer.

Vox Mic

VOX (Voice Operated Transmitter) adapter allows you hands-free operation. PMR-VOX





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www.cobraelec.com

SCobra microTALK

Private Mobile Radio 2-Way Radio

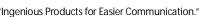
Cobra MicroTalk PMR 250 Betriebsfunkgerät für Gegensprechbetrieb

Radio móvil privada bidireccional Cobra MicroTalk PMR 250

Appareil de radiocommunication à usage privé

Ricetrasmettitore portatile per uso privato





The Private Mobile Radio Story

The Private Mobile Radio 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 shopping centre? Cobra's MicroTalk radios are a great way for friends or family to increase their fun - and safety - by staying in touch while on the go and they are perfect for business use as well, such as office to warehouse communications.

The ERC (European Radiocommunications Committee) has created 8 channels, called Private Mobile Radio (PMR). 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.

Included with your MicroTalk Removable Belt Clip Wrist Strap

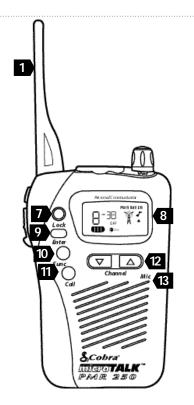
2

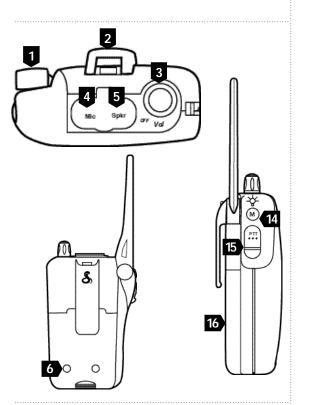
A1

Controls and Indicators

Controls and Indicators







Thank you for purchasing the Cobra PMR 250 2-way Radio. Properly used, this Cobra product will give you many years of reliable service. Cobra on the World Wide Web: Frequently Asked Questions (FAQ) can be found on-line at: www.cobraelec.com



A3