

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

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Features of This Product

- UHF FM Frequencies
- No Air-time Fees
- Up to 3 km (2-mile) Range
- 2 User-selectable Channels
- Talk Confirmation Tone
- Call/Ring Button
- Recharging Pads
- Retractable Antenna
- Battery Saver Circuitry
- Auto Squelch
- Wrist Strap/Belt Clip

Operation

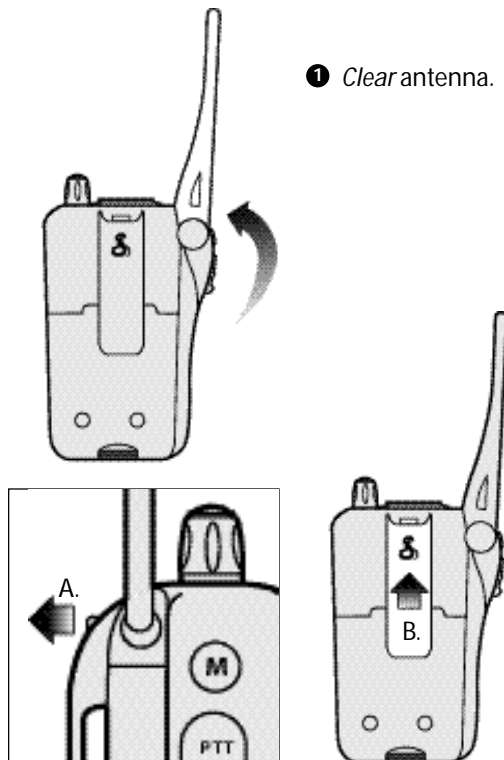
Battery Installation

Note

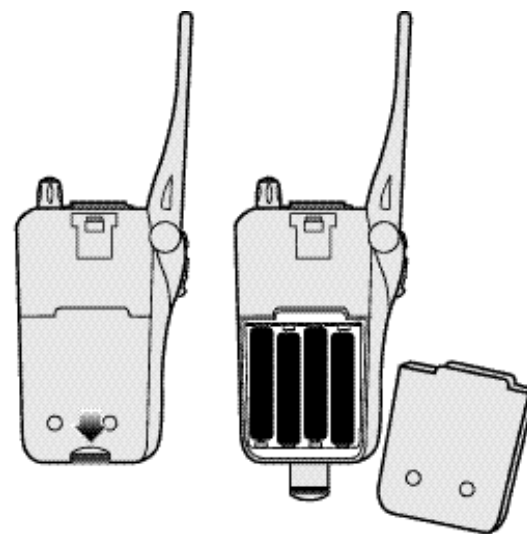
Batteries not included with MicroTalk 2-way radio.

Install Batteries

- ① Clear antenna.



- 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 pack (Part no. PMR-BP) can be recharged via the desktop charger (Part no. PMR-CH).

See Accessories on page 16. 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 red. Replace alkaline batteries or recharge NiMH battery pack.


Operation

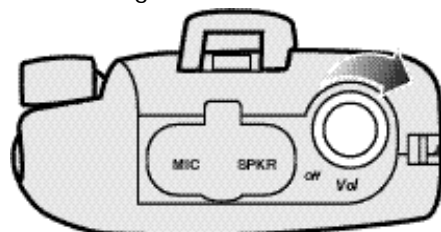
Turning On Your MicroTalk

Note

Whenever the unit is on you can receive communications.

Turning On Your MicroTalk

Rotate ON - OFF Volume Control  clockwise. An audible "tone" will indicate the unit is on and the TX/RX indicator on the front of the unit will illuminate green.



Auto Squelch

Auto Squelch

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


Maximum Range Extender

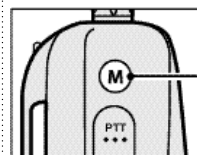
Note

To learn more about the range of your MicroTalk, see page 9.


Range is dependent on battery condition and geographic territory.

Maximum Range Extender

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

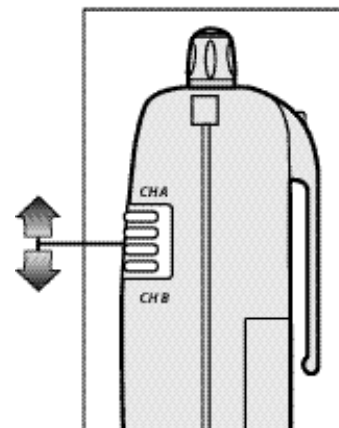


PUSH & HOLD

- 1 Push and hold the  M/RANGE EXTENDER button to allow all signals to enter.

Select Channel

- 1 Turn on the MicroTalk 2-Way Radio.



- 2 Select channel by moving the channel button up or down. Select either Channel A or B for optimum clarity.

Auto Battery Save

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.

Operation

Select Channel

Note

Units must be on same channel to communicate. Choose Channel A or B.

Note

You can also communicate with other 2-way radios (some have as many as eight channels).

Channel A = Channel 3 on other units

Frequency is 446.03125 MHz

Channel B = Channel 5 on other units

Frequency is 446.05625 MHz

Auto Battery Save

Note

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

Operation

Calling Another Party

Note

Units must be on same channel to communicate. Choose Channel A or B.

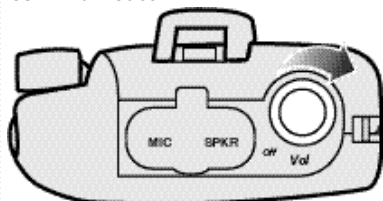
Note

You can also communicate with other 2-way PMR radios (some have as many as eight channels).

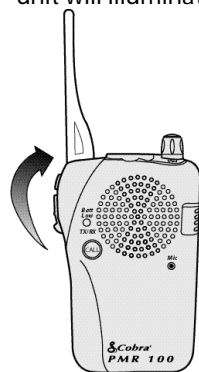
Channel A = Channel 3 on other units
Frequency is 446.03125 MHz
Channel B = Channel 5 on other units
Frequency is 446.05625 MHz

Calling Another Party

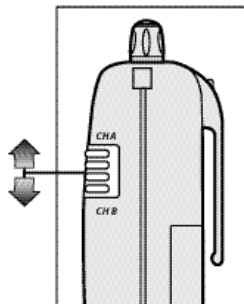
To alert another party that you wish to communicate:



- 1 Turn on your MicroTalk 2-way radio. An audible "tone" will indicate the unit is on and the TX/RX indicator on the front of the unit will illuminate green.



- 2 Place antenna in full upright position.



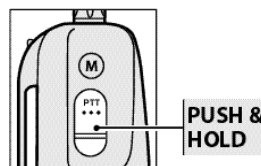
- 3 Select Channel A or Channel B by moving the CHANNEL button up or down.



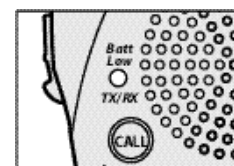
- 4 Push and release CALL button. The unit you are calling will hear a two second ring/tone.

Talking To Another Party

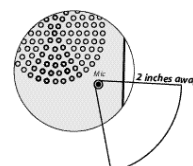
To send your outgoing message:



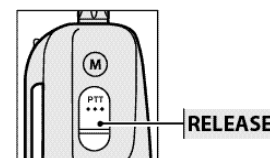
- 1 Push and hold PTT button.



- 2 The TX/RX indicator will illuminate red.



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



- 4 Release PTT button and listen for response.

Operation

Note

Your incoming "Call" signal level is dependent on your unit volume setting.

Talking To Another Party

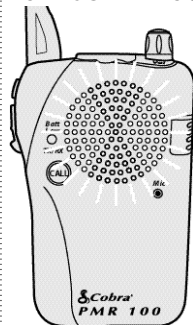
Note

While PTT button is depressed you cannot receive incoming calls.

Operation

Talk Confirmation Tone

Talk Confirmation Tone

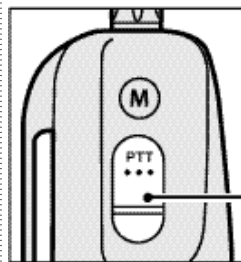


Your listener will hear an audible tone when you release the PTT button.

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

Listening For Another Party

When you have 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.

Note

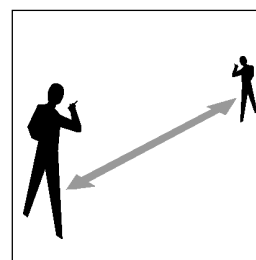
While PTT button is depressed you cannot receive incoming communications.

8

MicroTalk Range

MicroTalk Range

Your MicroTalk Radio has a range of up to 3 km (2 miles). This effective range may 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 4.

MicroTalk Range

9

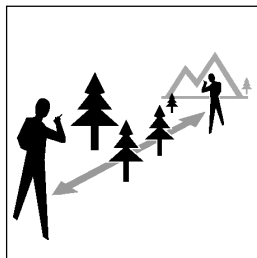
Making Life Easier and Safer

MicroTalk 2-Way Radio Can Make Life Easier and Safer

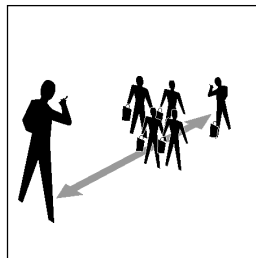
MicroTalk 2-Way Radio Can Make Life Easier and Safer

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

Some suggestions include:



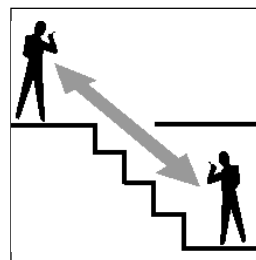
1. Talking with fellow hikers.



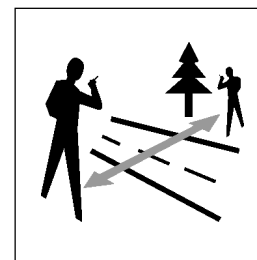
2. Keeping track of your family and friends in a shopping centre.

continued

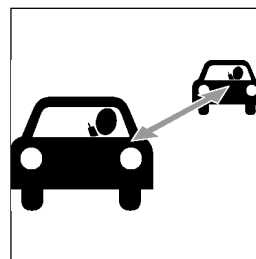
MicroTalk 2-Way Radio Can Make Life Easier and Safer *continued*



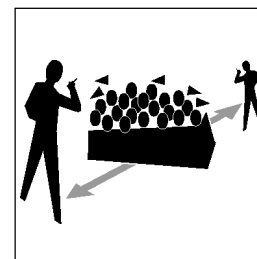
3. Communicating between different floors of a building.



4. Talking to a neighbour or a friend.



5. Checking on travelling companions in another car.



6. Agreeing on a meeting spot after an event.

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.

External Microphone/Speaker Jack

External Microphone/ Speaker Jack

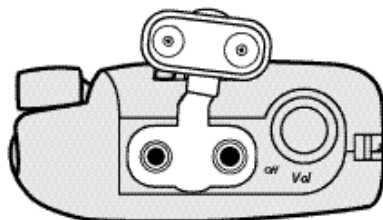
Note

External microphone/ speaker (item no. PMR-SM is not included with this unit. See Accessories section on page 16 for available units.

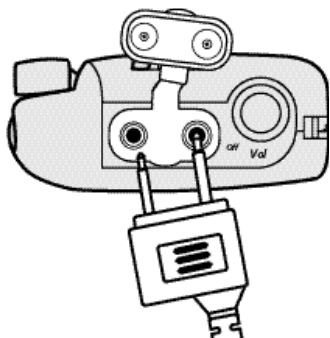
External Microphone/Speaker Jack

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:



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



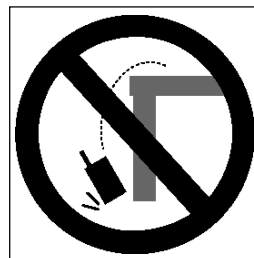
- 2 Insert plug into the Mic/Spkr jacks.

Caring for Your **microTALK™** Radio

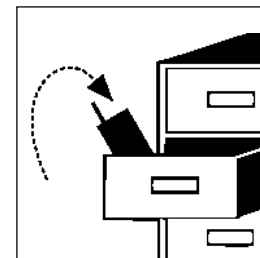
Caring for Your MicroTalk Radio

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

Here are some suggestions:



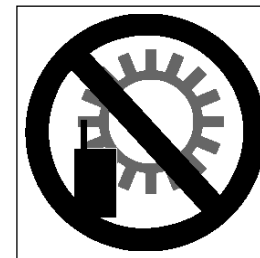
1. Handle unit gently.



2. Keep away from dust.



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



4. Avoid exposure to extreme temperatures.

microTALK™ Specifications

I. GENERAL SPECIFICATIONS

A. FREQUENCY

| PMR Channel | Channel Frequency In MHz |
|-------------|--------------------------|
| A | 446.03125 |
| B | 446.05625 |

B. RECEIVER

| | UNIT | |
|---|---------|------|
| 1. SENSITIVITY FOR 12 DB SINAD FOR CALL SIG.DETECTION | μ V | 0.25 |
| | μ V | 0.2 |
| 2. MAX. AUDIO OUTPUT @10% THD | mW | 100 |
| 3. MAX.S/N RATIO @ 1mV RF INPUT | dB | 45 |
| 4. SQUELCH | | |
| a) SENS. | μ V | 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

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 | 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

Notes



(1) NiMH Rechargeable Battery Pack

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



2 Port Desktop Charger

Charges your MicroTalk Radio and (1) NiCad battery pack
PMR-CH



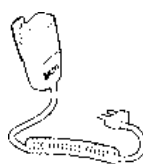
Carrying Case

Durable case perfectly fits your MicroTalk radio
PMR-CCB



Ear Bud Mic with PTT

Integrated speaker/mic adapter that fits in your ear. Includes shirt clip.
PMR-EBM



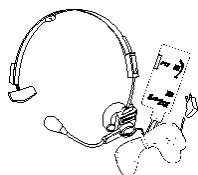
Lapel Microphone

Remote microphone/speaker connection.
PMR-40



Replacement Belt Clip

PMR-BC



Vox Mic

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

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

The Private Mobile Radio Story

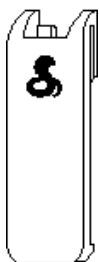
The Private Mobile Radio Story

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.

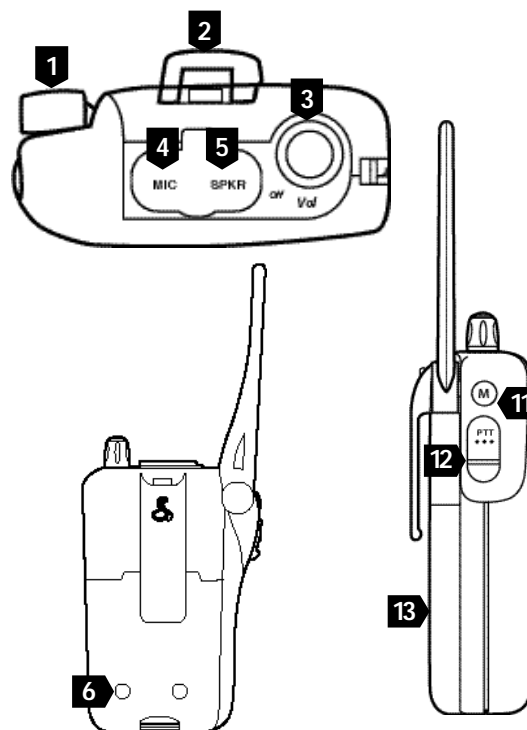
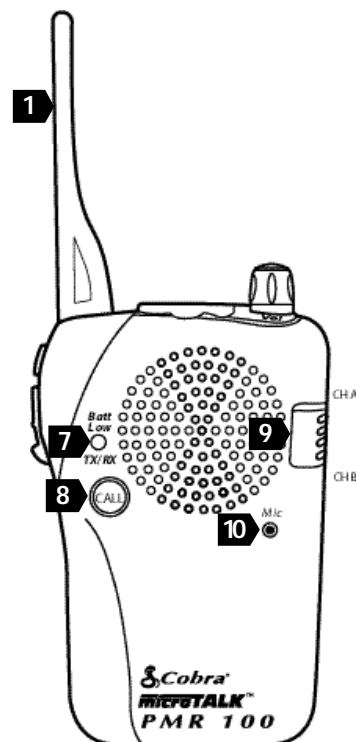
Included with your MicroTalk

- 1. Removable Belt Clip
- 2. Wrist Strap



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. TX (talk/Batt Low (batteries are low) Indicator
8. Call/Ring Button
9. Channel Select Buttons
10. Microphone
11. Maximum Range Extender Button
12. PTT (Push To Talk) Key
13. Battery Chamber



Thank you for purchasing the Cobra MicroTalk 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



Private Mobile Radio 2-Way Radio

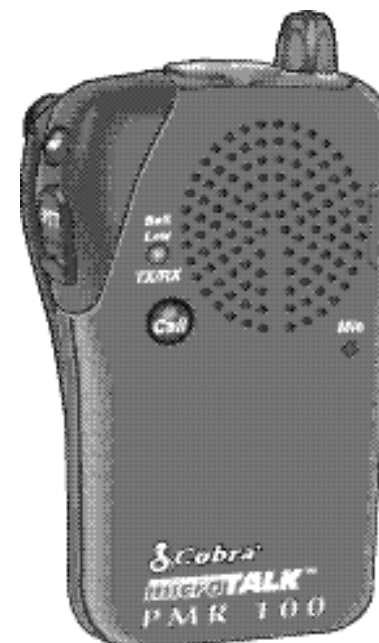


Cobra MicroTalk PMR 100
Betriebsfunkgerät für
Gegensprechbetrieb

Radio móvil privada
bidireccional
Cobra MicroTalk
PMR 100

Appareil de
radiocommunications
à usage privé

Ricetrasmittitore
portatile per
uso privato



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"Ingenious Products for Easier Communication."