Cobra®

microTALK®
2-WAY RADIO
MODEL **MT-900**

ENGLISH

- Antenna
- backlit LCD display
- ON-OFF/VOLUME switch
- belt clip
- TALK button
- battery compartment
- intercom jack
- LIGHT/MAX RANGE button
- CHANNEL SELECT buttons
- LOCK tab
- battery charger pads
- CALL button
- ENTER button
- LOCK button
- MODE button
- speaker/microphone
- external speaker/microphone jack
- TALK button
- LIGHT/MAX RANGE button
- intercom jack
- belt clip
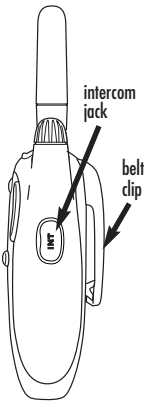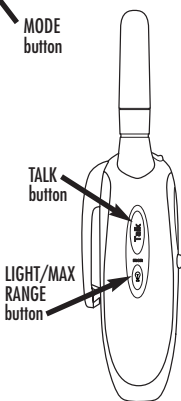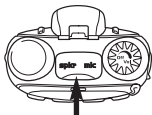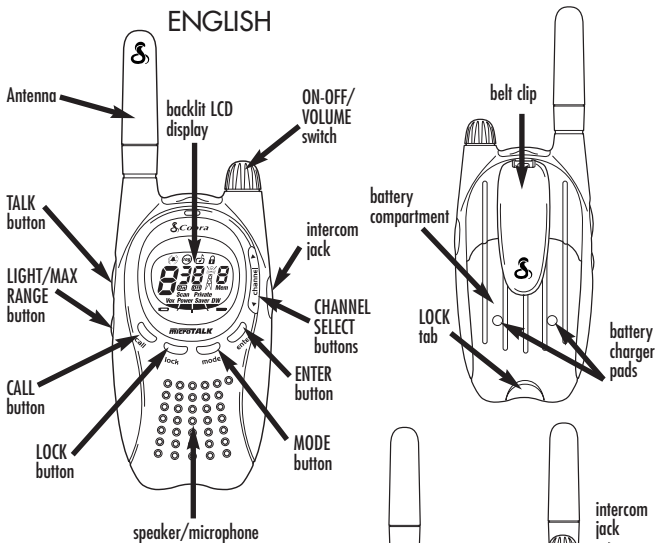
Features of This Product

- TWO-WAY RADIO with up to a 3 km (2 mile) range
- 8 MAIN CHANNELS*
- 38 CTCSS privacy codes
- BACKLIT LCD display
- WATER RESISTANT
- BATTERY SAVER circuitry
- MAXIMUM RANGE Extender
- VOX mode for hands-free transmissions
- PRIVATE CALL voice scrambling
- VIBRALERT™
- INTERCOM capability
- 10 MEMORY locations
- MEMORY SCAN
- FULL CHANNEL/CTCSS Privacy Codes scan
- CALL ALERT
- DUAL WATCH programmable 2-channel scan
- LOCK key
- AUTO SQUELCH
- 5 CALL SIGNAL selections
- On/off "ROGER BEEP" confirmation tone
- On/off KEYSTROKE tones
- EXTERNAL SPEAKER/MICROPHONE jack
- BELT CLIP
- WRIST STRAP
- RECHARGING PADS
- RAPID Desktop CHARGER
- RECHARGEABLE NiMH BATTERY Pack
- AC ADAPTOR (220V, 2-Pin Euro Plug)
- PLUG CONVERTER 220V, 2-Pin Euro Plug to 240V, 3-Pin UK Plug

Product Information

This Cobra® microTALK® radio has been manufactured to meet all required standards for radio equipment using PMR 446 frequencies as authorized. The use of this 2-way radio product involves the public airways and its use may be subject to local laws or regulations. Contact your radio licensing authority for more information.

*   You are not allowed to use channels 1 and 2 in France. This situation can change; please contact the French radio licensing authority for more information.

Caring for Your microTALK® Radio

Your microTALK® radio will give you years of trouble-free service if cared for properly. Here are a few suggestions:
- Handle the radio gently.
- Keep it away from dust.
- Never put the radio in water or in a damp place.
- Avoid exposure to extreme temperatures.

Recharging Batteries

You should fully recharge the battery pack before using your microTALK® for the first time.

1. Attach the power supply to the charger base and plug it in to an electrical outlet. (A UK-compatible connector is included, if required.) Place the radio in the charger base to begin charging.

2. With the optional adapter, you can place the battery pack alone in the charger base. Pull down the LOCK TAB and remove the battery compartment cover. Remove the battery pack and place the battery pack in the charging well.

3. The CHARGE light on the charger base will indicate when the battery is fully charged. The light will remain lit until the battery pack is approximately 90% charged, then blink rapidly until the battery is fully charged, then blink slowly indicating trickle charge. A full charge will take approximately 2 hours. You can leave the unit in trickle charge indefinitely.
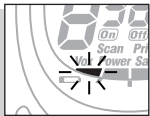
4. Your microTALK® can also be operated with four standard AAA alkaline batteries.

Battery Low

Battery power is indicated by the segments appearing at

the bottom of the LCD. As battery power decreases, fewer segments will be visible. When the last segment begins to flash, the batteries should be recharged or replaced.

Auto Battery Save

If there are no transmissions within 10 seconds, the unit will

automatically switch to Battery Save mode and POWER SAVER will appear in the display. This will not affect the unit's ability to receive incoming transmissions.

Turning On Your microTALK® Radio

1. Rotate the ON-OFF/VOLUME switch clockwise to turn on the unit (and to adjust the volume). An audible tone will indicate that the radio is on.

ON-OFF/ VOLUME switch

2. Your microTALK® is now in Standby mode, ready to receive transmissions. The radio is always in Standby mode except when the TALK, CALL, or MODE buttons are pressed.
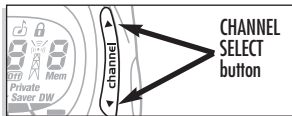
Illuminating the Display

1. Press and release the LIGHT/MAX RANGE button to illuminate the display for 10 seconds.
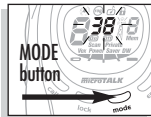
LIGHT/MAX RANGE button
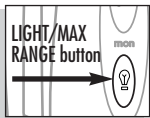
Selecting a Channel

1. With the radio on, select any of the 8 channels by pushing the CHANNEL UP or CHANNEL DOWN button. (**NOTE:** Both radios must be tuned to the same channel to communicate.)

CHANNEL SELECT button

Selecting a CTCSS Privacy Code

CTCSS (Continous Tone Coded Squelch System) is an advanced tone coding system allowing you to select one of 38 privacy codes to reduce interference from other users on the channel. (**NOTE:** If you are using a privacy code, both radios must be tuned to the same channel and privacy code to communicate. Each channel will remember the last privacy code you selected.) To select a privacy code:

1. After selecting a main channel, press and release the

MODE button. A small number will flash next to the channel in the LCD.
2. Push the CHANNEL SELECT button up or down to select a privacy code. You can hold the button up or down for fast advance.
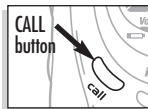**3.** When your desired privacy code is displayed, press and release the ENTER button.

MODE button
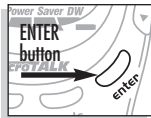
ENTER button

Calling Another Person

To alert another person that you are calling:

1. Press and release the CALL button. The other person will hear a 2-second ringing tone. You cannot send or receive transmissions during the 2-second call tone.

CALL button

Talking to Another Person

1. Press and hold the TALK button.

2. With the microphone about 5 cm (2 inches) from your mouth, speak in a normal voice.

3. Release the button when you have finished talking and listen for a response. You cannot receive incoming calls while pressing the TALK button.

TALK button

5 cm
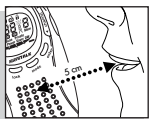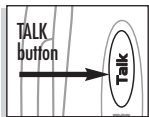
"Roger Beep" Confirmation Tone

Your listener will hear an audible tone when you release the TALK button. This alerts the other party that you have finished talking and it is OK for them to speak.
(**NOTE:** The Roger Beep can be turned off and on, see Advanced Features.)

Listening for a Response

When you have finished talking:

1. Release the TALK button to receive incoming transmissions. The radio is always in Standby mode except when the TALK, CALL, or MODE buttons are pressed.

2. Adjust the volume by rotating the ON-OFF/VOLUME switch.

microTALK® Range

Your microTALK® radio has a range of up to 3 km (2 miles). Your range will vary depending on terrain and conditions. In flat, open country your radio will operate at maximum range. Buildings and foliage in the path of the signal can reduce the range. Dense foliage and hilly terrain will further reduce the signal.

Auto Squelch

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

Maximum Range Extender

You can temporarily turn off Auto Squelch, allowing all signals to be received and extending the maximum range of your radio:

1. Press and hold the LIGHT/MAX RANGE button for 5 seconds. You will hear 2 beeps indicating that Maximum Range Extender is on.

2. To turn Maximum Range Extender off, press and hold the LIGHT/MAX RANGE button for 1 second, or change channels.

LIGHT/MAX RANGE button
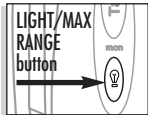
Using the Lock Function

The Lock function locks the CHANNEL, MODE and ENTER buttons to prevent accidental operation. To use the Lock function:

1. While in Standby mode, press and hold the LOCK button for one second. The Lock icon will blink when the unit is locked. Buttons that are NOT locked are the CALL, LIGHT/MAX RANGE, and TALK buttons, which are all fully functional while the unit is locked.
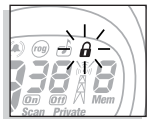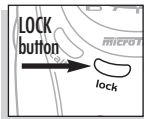
LOCK button

2. To unlock buttons, press and release the LOCK button again. The Lock icon disappears and all buttons will be unlocked.

External Speaker/Microphone Jack

Your microTALK® radio can be fitted with an external speaker/microphone (not included), freeing your hands for other tasks. See Accessories for optional accessories. To attach the external speaker/microphone:

1. Open the SPKR/MIC tab on top of the unit.

2. Insert the plug into the SPKR/MIC jack.

external speaker/microphone

SPEAKER/MICROPHONE jack
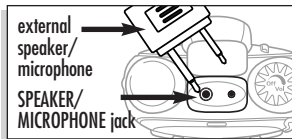
Using the MODE button

The MODE button allows you to use and program the various functions of your microTALK® radio. If you press and hold the MODE button, the LCD will cycle through the different functions.
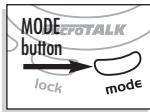
MODE button

Using VOX Mode

In VOX mode, your microTALK® can be used "hands-free," automatically transmitting when you speak. To turn VOX mode on and off:

1. Press the MODE button until the VOX icon flashes and the current setting ("on" or "off") is displayed.
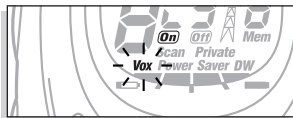
2. Push the CHANNEL SELECT button up or down to turn VOX mode on or off.

3. Press and release the ENTER button to enter the new setting, or press the MODE button to enter the new setting and proceed to other functions.

ENTER button

Setting the VOX Sensitivity Level

You can set the VOX sensitivity level to fit the volume of your voice and avoid transmissions triggered by background noise. To set the sensitivity:

1. Press the MODE button until the VOX icon flashes and the number for the current sensitivity level is displayed next to the letter L (level 5 = most sensitive, level 1 = least sensitive).

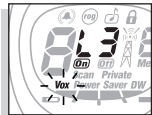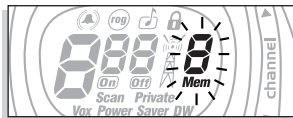**2.** Push the CHANNEL SELECT button up or down to change the setting.

3. Press and release the ENTER button to enter the new setting, or press the MODE button to enter the new setting and proceed to other functions.

Programming Memory Locations

Your microTALK® radio has 10 memory locations (0-9) for storing your most frequently used channels and privacy codes. To program locations:
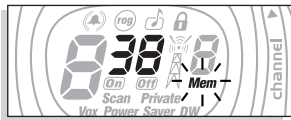
1. Push the MODE button until the Memory icon and the memory location flashes.

2. Select the memory location you wish to change by pushing the CHANNEL SELECT button up or down.

3. Press and release the MODE button again. The Memory icon and the main channel number will flash.
4. Select the main channel you wish to store by pushing the CHANNEL SELECT button up or down.
5. Press the MODE button again to store the main channel in memory and move to privacy code selection. The privacy code number begins flashing and the Memory icon continues to flash.


6. Select the privacy code (0-38) you wish to store by pushing the CHANNEL SELECT button up or down.
7. Press the TALK button to transmit on your selected channel and privacy code, which will be stored into the memory location you are using.
8. Press and release the ENTER button to return to Standby mode at your new memory location, or press and release the MODE button to save the memory location and proceed to other functions.

Recalling Memory Locations
To recall a channel you have stored in a memory location:
1. Press the MODE button until the Memory icon and a memory location flashes.
2. Select your desired memory location by pushing the CHANNEL SELECT button

up or down. Your radio will stay at this memory location until you exit Memory Function mode by pressing the ENTER button.
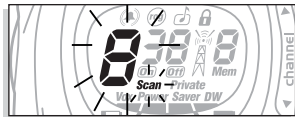**3.** Repeat step 2 to recall other memory locations.
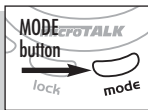
Using the Scan Function
Your microTALK® radio can automatically scan main channels (1-8), the privacy codes (0-38) within one main channel, or memory locations.

To scan main channels:
1. Press the MODE button until the Scan icon and main channel number flashes.

2. Push the CHANNEL SELECT button up or down and the unit will begin scanning the main channels. (**NOTE:** The unit "ignores" privacy codes while scanning main channels.)
3. The radio will continue to scan all main channels and stop if an incoming transmission is detected. The unit will remain on that channel for 10 seconds. During that time you can:
a) Press and hold the TALK button and talk. The radio will remain on that channel and return to Standby mode.
b) Push the CHANNEL SELECT button up or down to resume scanning main channels.
c) Press the MODE button to proceed to privacy code scanning. (See below.)
If you do not press any button within 10 seconds, the radio will automatically resume scanning main channels.

To scan privacy codes:
1. While in Standby mode, press the CHANNEL SELECT button up or down to choose the main channel you wish to scan.
2. Press the MODE button until the Scan icon and the privacy code number flashes.

3. Push the CHANNEL SELECT button up or down and the unit will begin scanning privacy codes within the main channel you selected.
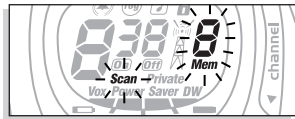
4. The radio will continue to scan privacy codes and stop if an incoming transmission is detected. The unit will remain on that channel for 10 seconds. During that time you can:
a) Press and hold the TALK button and talk. The radio will remain on that channel and return to Standby mode.
b) Push the CHANNEL SELECT button up or down to resume scanning privacy codes.
c) Press the MODE button to proceed to memory location scanning. (See below.)
If you do not press any button within 10 seconds, the radio will automatically resume scanning privacy codes.

To scan memory locations:

1. Press the MODE button until the Scan icon, Memory Location icon and memory location number flashes.

2. Push the CHANNEL SELECT button up or down and the unit will begin scanning memory locations.
3. The radio will continue to scan all memory locations and stop if an incoming transmission is detected. The unit will remain on that location for 10 seconds.
During that time you can:
a) Press and hold the TALK button and talk. The radio will remain on that channel and return to Standby mode.
b) Push the CHANNEL SELECT button up or down to resume scanning memory locations.
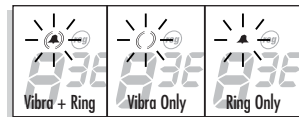c) Press the MODE button to proceed to other functions.
If you do not press any button within 10 seconds, the radio will automatically resume scanning memory locations.

Using Call Tones and VibrAlert™

Your microTALK® radio can alert you to incoming signals by sounding an audible call tone, by vibrating silently, or both. To change ring settings:
1. Press the MODE button until the Ring Setting icon

flashes and the current setting (Vibra + Ring, Vibra Only, or Ring Only) is displayed.

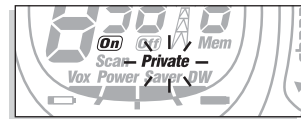| Vibra + Ring | Vibra Only | Ring Only |

2. Push the CHANNEL SELECT button up or down to change the ring setting.
3. Press and release the ENTER button to enter the new setting, or press the MODE button to enter the new setting and proceed to other functions.

Using Private Call Voice Scrambling

With Private Call turned on, your microTALK® radio automatically scrambles the voice signal to allow private communication. (**NOTE:** Both radios must have Private Call turned on for transmissions to be scrambled and unscrambled.) To use Private Call:
1. Press the MODE button until the Private icon flashes and the current setting ("on" or "off") is displayed.

2. Push the CHANNEL SELECT button up or down to turn Private Call on or off.
3. Press and release the ENTER button to enter the new setting, or press the MODE button to enter the new setting and proceed to other functions.

Setting Dual Watch

Dual watch allows you to simultaneously monitor any two channels/privacy codes you select.
To program Dual Watch:
1. Select the first channel and privacy code you wish to monitor (see Operation).

2. Press the MODE button until the Dual Watch icon flashes.

3. Push the CHANNEL SELECT button up or down to select the second channel you wish to monitor.

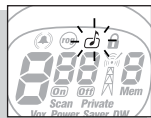**4.** Press the MODE button. The privacy code flashes.

5. Push the CHANNEL SELECT button up or down to select the second privacy code.

6. Press and release the ENTER button to store the second channel/privacy code and engage Dual Watch.

7. To terminate Dual Watch and return to normal Standby mode, press and release the ENTER or TALK button.

Turning Roger Beep Off and On

With Roger Beep turned on, your listener will hear an audible tone when you release the TALK button. To change Roger Beep mode:

1. Press the MODE button until the Roger Beep icon flashes and the current setting ("on" or "off") is displayed.

2. Push the CHANNEL SELECT button up or down to turn Roger Beep on or off.

3. Press and release the ENTER button to enter the new setting, or press the MODE button to enter the new setting and proceed to other functions.

Turning Keystroke Tones Off and On

With Keystroke Tones turned on, your unit will sound beeps each time you press a button or change a setting. To change Keystroke Tones mode:

1. Press and hold the ENTER button for 5 seconds to turn keystroke tones off. A double beep will sound and the Beep icon will disappear.

2. To turn keystroke tones back on, press and hold the ENTER button for 5 seconds again. A double beep will sound and the Beep icon will appear. (NOTE: The unit must not be in Lock mode during these steps.)
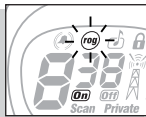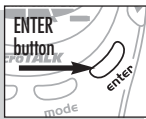
Changing Call Tone Settings

You can choose from five different call tone settings to alert you when someone is calling. To select a call tone setting:

1. With the power turned off, press and hold the CALL button as you turn the power on. The number of the current call tone setting will flash and the tone will sound for one second.
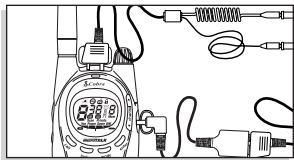
2. Push the CHANNEL SELECT button up or down to hear the other call tone settings.

3. With the number of your desired call tone setting displayed, press and release the TALK button or ENTER button. Your selection will be entered.

4. If no buttons are pushed for 15 seconds, the unit will automatically enter the last call tone pattern that was displayed.

Intercom

With the optional intercom adapter and two external speaker/microphone attachments, a single microTALK® radio can be used as an intercom system. (Ideal for motorcyclists.)

For accessory orders, warranty and customer service information, please contact your local dealer.

Lapel Speaker/
Microphone
MA-SM

Replacement
Belt Clip
PA-BC2

NiMH Rechargeable
Battery Pack
FA-BP

Vox Headset Mic
MA-VOX

Ear Bud Mic with PTT
MA-EBM

DECLARATION OF CONFORMITY

This declaration is the responsibility of the manufacturer/importer

Cobra® Electronics Europe Limited
Dungar House
Northumberland Avenue
Dun Laoghaire
County Dublin, Ireland

This certifies that the following designated product

PRIVATE MOBILE RADIO: MT 900

(Product Identification)

complies with the essential protection requirements of R & TTE Directive 1999/5/EC on the approximation of the laws of the Member States relating to Radio Spectrum Matters, EMC and Electrical Safety.
This declaration applies to all specimens manufactured in accordance with the attached technical documentation described in Annex II of the Directive which forms part of this declaration.
Assessment of compliance of the product (class 2.6) with the requirements relating to the essential requirements according to Article 3 R & TTE was based on Annex IV of the Directive 1999/5/EC and the following standards:

EN 300 296-2 v.1.1.1 (02/01)

Radio Spectrum: ....

(Identification of regulations/standards)

EN 301 489-5 (07/2000)

EMC: ....

(Identification of regulations/standards)

EN 60065: 1998

Electrical Safety: ....

(Identification of regulations/standards)

DUBLIN, IRELAND   MIKE KAVANAGH