



- | | |
|---|---------------------------------|
| 1. Antenna | 10. Talk Button |
| 2. External Speaker/
Microphone/ USB Charge Jack | 11. Memory/Escape Button |
| 3. Mode/Power Button | 12. Max Range Button |
| 4. Call Button | 13. Scan Button |
| 5. Channel Up/Down
Buttons | 14. Wrist Strap Connection |
| 6. Backlit LCD Display | 15. Belt Clip |
| 7. Speaker/Microphone | 16. Battery Compartment |
| 8. Volume Up/Down Buttons | 17. Battery Door Latch |
| 9. LED Light Button | 18. Rubberized Grips |
| | 19. LED Flashlight |
| | 20. Lock Button |

TWO-WAY RADIO MODEL
AM845

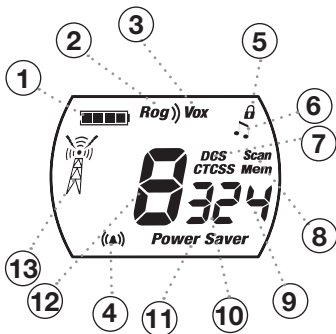
KEM-ML38403

Product Features

Features

- 8 Channels
- 121 Privacy Codes
(38 CTCSS codes/
83 DCS codes)
- Hands-Free Operation
(VOX)
- VibrAlert®
- Scan
Channels,
privacy codes
- Backlit LCD Display
- LED Flashlight
- Call Alert
Ten selectable
tones
- Button Lock
- Speaker/
Microphone/
Charge Jack
- Roger Beep
Selectable On/Off
- Battery/Power Saver
- Keystroke Tones
- Battery Level
Indicator
- Low Battery
Audible Alert
- Auto Squelch
- Maximum
Range Extender
- Belt Clip

Backlit LCD Display



1. Battery Level Indicator
2. Roger Beep Icon
3. VOX Icon
4. VibrAlert® / Call Alert Icon
5. Lock Icon
6. Key Tone Icon
7. DCS/CTCSS Icons
8. Scan/Memory Icon
9. Memory Channel Number
10. DCS/CTCSS Privacy Code Numbers
11. Power Saver Icon
12. Channel Numbers
13. Receive/Transmit Icon



Maximum range may vary and is based on unobstructed line-of-sight communication under ideal conditions.

*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.

Product Information

This MicroTALK® radio has been manufactured to meet all required standards for radio equipment using PMR 446 frequencies as authorized. The use of this two-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.

Caring for Your 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.

Installing Batteries

To install or replace batteries:

Remove Belt Clip



1. Remove belt clip by releasing belt clip latch and sliding clip up.

2. Pull up on the battery door latch to remove the battery compartment cover.

3. Insert the supplied three AA rechargeable batteries or non-rechargeable alkaline batteries. Position batteries according to polarity markings.

Pull Up Lock Latch



4. Replace battery compartment cover and belt clip.

- Do not attempt to charge alkaline batteries.

- Do not mix old and new batteries.

- Do not mix alkaline, standard (carbon-zinc), or rechargeable (Ni-Cd, Ni-MH, etc.) batteries.

Insert Batteries



Caution - Risk of fire or explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

Radio Charger Jack



To charge batteries in radio:

1. Check to see that the batteries have been inserted properly.

2. Insert the cable into the charge jack located at the top of the radio.

3. Plug the cable into USB-compatible power source.

Use only the supplied rechargeable batteries and charger for recharging your Cobra microTALK radio.

Cobra recommends your radio is turned off while being charged.

Non-rechargeable alkaline batteries can also be used in your radio.

Maximum/Minimum Operating Range: -20°C to +45°C.

Maximum SAR values: 0.934W/kg for FM 25KHz (boby-Worn).

Using Your Radio



For charging microTALK radio(s) in desktop charger:

1. Insert radio(s) into desktop charger as shown.
2. Insert the micro-USB cable into jack on back of charger.
3. Plug the cable into USB-compatible power port. For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.

If charging light is not **on**, check position of radio. Radio should be upright. The charge indicator light will stay **on** as long as the radio is in the charging well, and the light will go off when the charging is complete.

Note: To charge a single radio, you can bypass the desktop charger and simply insert the micro-USB's connector directly into the charge jack located on the top of the radio.

The radio will display flashing battery icon while charging.

Cobra recommends your radio be turned **off** while being charged.



Quick Start

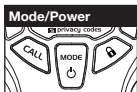
1. Press and hold the **Mode/Power** button to turn **on** your radio.
2. Press the **Channel Up** or **Channel Down** button to select a channel.



Both radios must be tuned to the same channel/privacy code to communicate.

3. Press and hold the **Talk** button while speaking into the microphone.
4. When finished talking, release the **Talk** button and listen for a response.

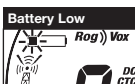
Turning on Your microTALK® Radio



Press and hold the **Mode/Power** button until you hear a series of audible tones indicating the radio is **on**.

Your microTALK® radio is now in **Standby** mode, ready to receive transmissions. The radio is always in **Standby** mode except when the **Talk**, **Call** or **Mode/Power** buttons are pressed.

Battery Low

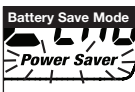


When battery power is low, the final bar in the **Battery Low** icon will blink and an audible tone will sound twice before the radio shuts off. Your batteries should be replaced or recharged, if using rechargeable batteries.



The radio will display flashing battery icon while charging.

Auto Battery Save



If there are no transmissions within 10 seconds, the radio will automatically switch to **Battery Save** mode and the **Power Saver** icon will flash in the display. This will not affect the radio's ability to receive incoming transmissions.

Communicating with Another Person



1. Press and hold the **Talk** button.
2. With the microphone about two inches (5 cm) from your mouth, speak in a normal voice.
3. Release the **Talk** button when you are finished talking and listen for a response.



You cannot receive incoming calls while pressing the **Talk** button.



Both radios must be tuned to the same channel/privacy code to communicate.

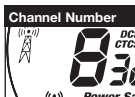
To Select a Channel



With the radio **on**, select any of the 8 channels by pressing the **Channel Up** or **Channel Down** button.



Both radios must be tuned to the same channel to communicate.



Using Your Radio

Listening for a Response

Listening



Release the **Talk** button to receive incoming transmissions. Your microTALK® radio is always in **Standby** mode while the **Talk** or **Call** buttons are not pressed.

To Adjust Volume

Volume Button



Press the **Volume Up** or **Volume Down** button.

A double beep sound is used to indicate the minimum and maximum volume levels (1 through 8).

Volume Level



Call Button

Call Button



Press and release the **Call** button.

The other person will hear a three second call tone. This tone is used only to establish voice communications.



See page 14 on how to select between ten call tone settings.

LED/S.O.S. Flashlight

LED/S.O.S. Flashlight



Press and release the **LED flashlight** button below the **TALK** button to use the LED flashlight located at the bottom of the radio.

To activate S.O.S. function, press and hold the **LED flashlight button** to turn on. Press and release to turn off the flashlight or S.O.S. function.

Auto Squelch/Maximum Range

Your microTALK® radio will automatically shut **off** weak transmissions and unwanted noise due to terrain, conditions or if you've reached your **Maximum Range** limit.

Can temporarily turn off auto squelch for having maximum range extension allowing all signals to be received and extending the maximum range of your radio



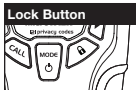
To temporarily turn off auto squelch:

Press the **Max Range** button for at least three seconds.

To turn maximum range extender off:

– Press and hold the **Max Range** button or change channels.

Lock Function



The **Lock** function locks the **Channel Up, Channel Down, Volume Up, Volume Down** and **Mode/Power** buttons to prevent accidental operation.

To turn the lock on or off:

– Press and hold the **Lock** button for three seconds.

A double beep sound is used to confirm your lock **on** or **off** request. When in **Lock** mode, the **Lock** icon will be displayed.



microTALK® Range

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 of the radio.



Dense foliage and hilly terrain will further reduce the range of the radio.

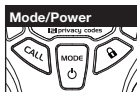


Remember, you can achieve maximum range by using maximum range extender. See page 6 for details.

Using Your Radio

Scrolling Through the Mode Function

By scrolling through the **Mode** function, you will be able to select or turn **on** preferred features of your microTALK® radio. When scrolling through the **Mode** function, your radio features will be displayed in the same predetermined order:



- Set CTCSS Privacy Codes
- Set DCS Privacy Codes
- Set Vox On/Off
- Set Vox Sensitivity
- Set Call Tones 1-10
- Set VibrAlert On/Off
- Set Roger Beep On/Off
- Set Key Tones On/Off

Privacy Codes

Your microTALK radio incorporates two advanced coded squelch systems that can help to reduce interference from other users on any given channel. CTCSS (Continuous Tone Coded Squelch System) provides 38 privacy codes and DCS (Digitally Coded Squelch) provides 83 privacy codes. This provides a total of 121 **Privacy Codes**. Either system can be used on all channels, but both systems cannot be used on the same channel at the same time.

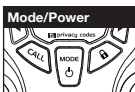


To successfully communicate using a privacy code, both the sending and receiving radios must be tuned to the same channel and to the same privacy code system (CTCSS or DCS) and privacy code number. Each channel will remember the last privacy code system and number you select.



The privacy code 00 is not a privacy code, but allows all signals to be heard on a channel that is set to 00 on both the CTCSS and DCS systems.

Set CTCSS Privacy Codes



To select a CTCSS privacy code:

1. After selecting a channel, press the **Mode/Power** button until the **CTCSS** icon appears and the small numbers next to the channel number flash on the display.



If DCS is turned **on** at the channel selected, the display will flash the CTCSS icon and "OFF." To switch from DCS to CTCSS, press the **Channel Up** or **Channel Down** button while the display is flashing "OFF." The display will then show the small numbers flashing and you will then be able to proceed to step 2.

2. Press the **Channel Up** or **Channel Down** button to select a privacy code. You can hold the **Up** or **Down** button for fast advance.
3. When your desired CTCSS privacy code is displayed, choose one of the following:
 - a. Press the **Mode/Power** button to enter the new setting and proceed to other functions.
 - b. Press **Talk** or **Call** button to return to **Standby** mode.
 - c. Do not press any buttons for 6 seconds to return to **Standby** mode.

Using Your Radio

Set DCS Privacy Codes



To select a DCS privacy code:

1. After selecting a channel, press the **Mode/Power** button until the DCS icon appears and the small numbers flash on the display (01 through 83).



If CTCSS is turned **on** at the channel selected, the display will flash the DCS icon and "OFF." To switch from CTCSS to DCS, press the **Channel Up** or **Channel Down** button while the display is flashing "OFF." The display will then show the small numbers flashing and you will then be able to proceed to step 2.

2. Press the **Channel Up** or **Channel Down** button to select a DCS privacy code. You can hold the **Up** or **Down** button for fast advance.
3. When DCS privacy code is displayed, choose one of the following:
 - a. Press the **Mode/Power** button to enter the new setting and proceed to other functions.
 - b. Press **Talk/Call** button to return to **Standby** mode.
 - c. Do not press any buttons for 6 seconds to return to **Standby** mode.

External Speaker/Microphone/Charge Jack



Your microTALK radio can be fitted with an optional external speaker/microphone (not included), freeing your hands for other tasks.

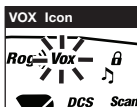
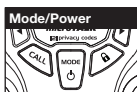
To attach an external speaker/microphone or charger

1. Open the charge tab at the top of the radio.
2. Insert the plug into the jack.

NOTE: Excessive sound pressure from earphones and headphones can cause hearing loss.

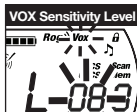
Voice Activated Transmit (VOX)

In **VOX** mode, your microTALK® radio can be used “hands-free,” automatically transmitting when you speak. You can set the **VOX** sensitivity level to fit the volume of your voice and avoid transmissions triggered by background noise.



To turn **VOX** mode on or off:

1. Press the **Mode/Power** button until the **VOX** icon flashes on the display. The current **On** or **Off** setting is displayed.
2. Press the **Channel Up** or **Channel Down** button to turn **VOX On** or **Off**.
3. Choose one of the following:
 - a. Press the **Mode/Power** button to enter the new setting and proceed to other functions.
 - b. Press **Talk** or **Call** button to return to **Standby** mode.
 - c. Do not press any buttons for 6 seconds to return to **Standby** mode.



To set **VOX** sensitivity:

1. Press the **Mode/Power** button until the **VOX** icon flashes and the current sensitivity level is displayed.



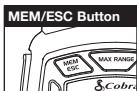
The current **VOX** sensitivity level is displayed with letters “L” and a Number 1 through 5, with Number 5 being the most sensitive level and Number 1 being the least sensitive level.

2. Press the **Channel Up** or **Channel Down** button to change the setting.
3. Choose one of the following:
 - a. Press the **Mode/Power** button to enter the new setting and proceed to other functions.
 - b. Press **Talk** or **Call** button to return to **Standby** mode.
 - c. Do not press any buttons for 6 seconds to return to **Standby** mode.

Using Your Radio

10 Memory Locations

Your microTALK radio has **10 Memory Locations** for storing your most frequently used channels and channel/privacy code combinations. These **Memory Locations** can be selected individually or can be scanned. (See page 18 for memory location scan.)



To program a memory location:

1. Press the **MEM/ESC** button. **Memory** icon and the **Memory Location** show on the display.
2. Press the **Channel Up** or **Channel Down** button to select the memory location (0 through 9).



If a location has been programmed before, its associated channel/privacy code will be shown on the display.

3. Press the **MEM/ESC** button to enter a new memory location or edit an already programmed memory location.
4. Press the **Channel Up** or **Channel Down** button to select the memory location.
5. Press the **MEM/ESC** button. The channel numbers will flash on the display.
6. Press the **Channel Up** or **Channel Down** button to select a channel (1 through 8).
7. Press the **MEM/ESC** button. The **CTCSS** icon and privacy code numbers will flash on the display.
8. Choose one of the following:
 - a. Press the **Channel Up** or **Channel Down** button to select a CTCSS privacy code (00 through 38) for the channel.
 - b. Press the **MEM/ESC** button to switch from CTCSS to DCS. The DCS icon and privacy code numbers will flash on the display. The **Channel Up** or **Channel Down** button can then be used to select a DCS privacy code (00 through 83) for the channel.



If “CF” flashes in place of the privacy code numbers, a privacy code is already set in the opposite (CTCSS or DCS) system. Press the **Channel Up** or **Channel Down** button to cancel the opposite code and select a privacy code from the active system for the selected channel.

9. Choose one of the following:

- a. Press the **MEM/ESC** button to enter the channel/privacy code in the selected memory location. Radio then proceeds to next memory location, which will blink.
- b. Press and hold the **MEM/ESC** button to save the current state of the Set Memory Function and press the **MEM/ESC** button again return to Standby mode.



To recall a stored memory channel location:

1. Press the **MEM/ESC** button until the **Memory** icon and the memory location number flash on the display.
2. Press the **Channel Up** or **Channel Down** button to select a memory location (0 through 9).



If a location has been programmed before, its associated channel/privacy code will be shown on the display.

Press and hold the **Talk** button to communicate with another person as usual



3. Press and hold the **MEM/ESC** button to return to **Standby mode** on the selected memory location.

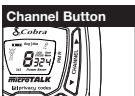
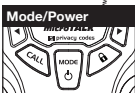


A memory location can be reprogrammed at any time it is displayed. Press the **MEM/ESC** button to begin.

Using Your Radio

Ten Call Tone Settings

You can choose between ten different **Call Tone Settings** to transmit a call alert.



To change a call tone setting:

1. Press the **Mode/Power** button until the letter "C" and the current call tone number (01 through 10) is displayed. The current call tone will sound for three seconds.
2. Press the **Channel Up** or **Channel Down** button to hear the other call tone settings.
3. Choose one of the following:
 - a. Press the **Mode/Power** button to enter the new setting and proceed to other functions.
 - b. Press **Talk** or **Call** button to return to **Standby** mode.
 - c. Do not press any buttons for 6 seconds to return to **Standby** mode.

VibrAlert® and Call Alert

Your MicroTALK® radio can alert you to incoming signals by sounding an audible call tone or an audible tone with VibrAlert®.

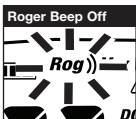
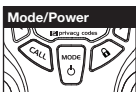


To change call settings:

1. Press the **Mode** button until the **Call Setting** icon flashes on the display. The current setting ("01" vibrate + ring, "02" ring only) is displayed.
2. Press the **Channel Up** or **Channel Down** button to change the call setting.
3. Choose one of the following:
 - a. Press the **Mode** button to enter the new setting and proceed to other functions.
 - b. Press **Talk** or **Call** button to return to **Standby** mode.
 - c. Do not press any buttons for 6 seconds to return to **Standby** mode.

Roger Beep Confirmation Tone

Your listener will hear an audible tone when you release the **Talk** button. This alerts the other party that you are finished talking and it is OK for them to speak.

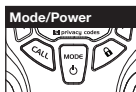


To turn roger beep on or off:

1. Press the **Mode/Power** button until the **Roger Beep** icon flashes. The current **on** or **off** setting is displayed.
2. Press the **Channel Up** or **Channel Down** button to select roger beep **on** or **off**.
3. Choose one of the following:
 - a. Press the **Mode/Power** button to enter the new setting and proceed to other functions.
 - b. Press **Talk** or **Call** button to return to **Standby** mode.
 - c. Do not press any buttons for 6 seconds to return to **Standby** mode.

Key Tone On/Off

When **Key Tone** is **On**, an audible tone will sound each time a button is pressed.



To turn key tone on or off:

1. Press the **Mode/Power** button until the **keytone** icon flashes. Current key tone status **On/Off** will flash.
2. Press the **Channel Up** or **Channel Down** button to select key tone **on** or **off**.
3. Choose one of the following:
 - a. Press the **Mode/Power** button to enter the **Standby** mode.
 - b. Press **Talk** or **Call** button to return to **Standby** mode.
 - c. Do not press any buttons for 6 seconds to return to **Standby** mode.

Using Your Radio

Channel Scan

Your microTALK® radio can automatically scan channels.

Scan Button



To scan channels:

1. Press and release the **Scan** button until the **Scan** icon and the channel numbers appear on the display.
2. Press and hold the **Scan** button to begin scanning channels.

Scan Channels



The radio ignores specific privacy codes while scanning channels.

Channel Button



The **Scan** icon will continue to be displayed when scan is **on**. Your radio will continue to scan all channels and stop if an incoming transmission is detected. Your radio will remain on that channel for 2 seconds.

During scanning (while receiving an incoming transmission), you can choose from the following:

- a. Press and hold the **Talk** button to communicate on that channel. Your radio will remain on that channel and return to **Standby** mode.
- b. Press the **Channel Up** or **Channel Down** button to resume scanning channels.
- c. Press and hold the **Scan** button to return to **Standby**.

Privacy Code Scan

Your microTALK radio can automatically scan the **Privacy Codes** (either CTCSS 01 through 38 or DCS 01 through 83) within one channel. Only one set of privacy codes (CTCSS or DCS) can be scanned at a time.

Scan Button



Channel Button



Select Channel



Scan Privacy Codes



To scan privacy codes:

1. While in **Standby** mode, press and release the **Scan** button twice (CTCSS) or three times (DCS) until the CTCSS or DCS icon and numbers are flashing.
2. Press and hold the **Scan** button to begin scanning privacy codes within the selected channel.

The **Scan** icon will continue to be displayed when privacy code scan is **on**. Your radio will continue to scan privacy codes and stop as an incoming transmission is detected. Your radio will remain on that channel/privacy code for 6 seconds.

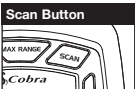
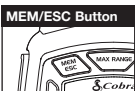
During scanning (while receiving an incoming transmission), you can choose from the following:

- a. Press and hold the **Talk** button to communicate on that channel/privacy code. Your radio will remain on that channel/privacy code and return to **Standby** mode.
- b. Press the **Channel Up** or **Channel Down** button to resume scanning privacy codes. If you do not press any button within 10 seconds, your radio will automatically resume scanning privacy codes.
- c. Press the **Scan** button to return to **Standby**.

Using Your Radio

Memory Scan

Your microTALK radio can automatically scan the stored memory locations. (See page 12 for setting memory locations)



To scan memory locations:

1. Make sure 2 or more memory locations programmed already.
2. Press and release the **MEM/ESC** button to enter **Memory mode** from **Standby mode**.

Memory icon and the **Memory Location** show on the display.

3. Press and release the **Scan** button, then the **Scan** icon will flash on the display.

Then press **Scan** button again, **Scan** icon and **Memory** icon will flash on the display simultaneously.

4. Press the **Channel Up** or **Channel Down** button to begin scanning stored channel locations.

The **Scan** icon will continue to be displayed when **Memory Scan** is **On**.

Your radio will continue to scan memory locations and stop as an incoming transmission is detected. Your radio will remain on that stored channel/privacy code for 6 seconds.

Declaration of Conformity(DoC)

We, Altis Global Limited of Berkeley Lake, GA 30071 USA

declare under our side responsibility that the product:
**Private Mobile Radio (PMR 446) - Walkie Talkie
Two-way Radio**

Model: AM845

to which this declaration relates is in conformity with all the essential requirements and other relevant requirements of the R&TTE Directive (1995/5/CE). The product is in conformity with the following standards and/or other normative documents:

Health (Article 3.1(a)): **EN50566:2013**

Safety (Article 3.1(a)): **EN60950-1:2006/A2:2013**

EMC (Article 3.1(b)): **EN301 489-1 V1.9.2 (2011-09)
EN301 489-5 V1.3.1 (2002-08)**

Spectrum (Article 3.2): **EN300 296-2 V1.4.1 (2013-08)**

This product complies with Commission Regulation (EC) No 278/2009 of 6 April 2009 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for no-load condition electric power consumption and average active efficiency of external power supplies and is in conformity with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.


The radio will not comply with the standard at voltage below 3.4V.

CE 0168

Berkeley Lake, GA, USA

1 OCT 2016

Bernard Auyang
CEO



KEM-ML38403

Warranty & Customer Service

For warranty and customer service information, please go to:

www.cobrapmr.com

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