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AM645

Nothing Comes Close to a Cobra®

KEM-ML38306 English

AM645_MANL_ENG.indd 1



Operation

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

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.

Scan Rog)) VOX \≘∕ DCS CTCSS Power Saver

- 7. DCS/CTCSS Icons 8. DCS/CTCSS Privacy
- Code Numbers
- 9. Power Saver Icon 10 Channel Numbers
- 11 Receive/Transmit Icon

*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 Radio

1. Battery Level Indicator

Roger Beep Icon

Scan Icon

Lock Icon 5.

6. Key Stroke Icon

2. VOX Icon

3.

4.

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:









- 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.
- 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.

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:
- 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 port.

Use only the supplied rechargeable batteries and charger for recharging your Cobra microTALK radio. The radio is not intended to be used 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: 1.16 W/kg for FM 25KHz (Body-Worn).

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.

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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 Status Indicator



The battery charge status is shown on the display. Four bars indicates fully charged.

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 if the radio is on.

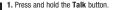
Auto Battery Save



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

Using Your Radio

Communicating with Another Person



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 to communicate.

To Select a Channel

Talk Button

from Mouth

Two Inches (5 cm)



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



Listening for a Response



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.

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To Adjust Volume



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



Press and release the Call button.

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

> See page 12 on how to select between five call tone settings.

To Illuminate Display



Press and release the Light/Max Range button to illuminate the display.

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.

You can temporarily turn off auto squelch or turn on maximum range extender, allowing all signals to be received and extending the maximum range of your radio.

Using Your Radio

Auto Squelch/Maximum Range continued



To temporarily turn off auto squelch: Press the Light/Max Range button for less than five seconds.

To turn maximum range extender on:

-Press and hold the Light/Max Range button for at least seven seconds until you hear two beeps which indicates the maximum range extender is on.

To turn maximum range extender off: -Press and release the Light/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 two 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.



Reduced Range

Scan

VOX

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.



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External Speaker/Microphone/Charge Jack



Your micoTALK[®] 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.

Scrolling Through the Mode Function

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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 Channel Scan
- Set CTCSS Privacy Code Scan
- Set DCS Privacy Code Scan
- Set Call Tones
- Set Roger Beep On/Off Set Key Stroke 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.



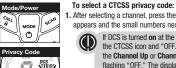
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To successfully communicate using a privacy code, both the sending and receiving radios must be tuned to the same channel and to the same privacy code system (CTCSS or DCS) and privacy code number. Each channel will remember the last privacy code system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

Using Your Radio

Set CTCSS Privacy Codes



:83:

Channel Button

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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 the Talk/Call button to return to Standby mode.

c. Do not press any buttons for 12 seconds to return to Standby mode.

Set DCS Privacy Codes

DCS VIIST

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Channel Button

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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 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.
- ower Saler 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 your desired 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 the Talk/Call button to return to Standby mode.
 - c. Do not press any buttons for 12 seconds return to Standby mode.



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.



THENSE S / Rog)) &

VOX -CTCSS

To turn VOX mode on and 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 the Talk/Call button to return to Standby mode.
- c. Do not press any buttons for 12 seconds to return to Standby mode.

To set VOX sensitivity:



VOX Sensitivity Leve TTD 34.57 AL

Channel Button

- 1. Press the Mode/Power button until the VOX icon flashed 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 select the sensitivity level 01 to 05
- Choose one of the following:
- a. Press the Mode/Power button to enter the new setting and proceed to other functions
- b. Press the Talk/Call button to return to Standby mode.
- c. Do not press any buttons for 12 seconds to return to Standby mode.

Using Your Radio

Channel Scan

Your microTALK° radio can automatically scan channels.

on the display.

To scan channels: Mode/Power CAU 1. Press the Scan button, Scan icon and the channel numbers appear

5CAN MODE Ś Ċ 2. Press the Channel Up or Channel Down button to begin scanning



channels.







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.

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 the Talk/Call button to return to Standby.







Channel Button

VOX Icon

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.



To scan privacy codes:

1. While in Standby mode, press the Channel Up or Channel Down button to choose the channel on which you wish to scan privacy codes.

2. Press the Scan button twice until either the CTCSS or the DCS icon appears on the display and the privacy code numbers flash on the display.



MODE

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3. Press the Channel Up or Channel Down button to begin scanning privacy codes within the channel you selected.

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 Talk/Call button to return to Standby.

Five Call Tone Settings

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



Call Tone Setting

To change a call tone setting:

- 1. Press the Mode/Power button until the letter "C" and the current call tone number (01 through 05) is displayed. The current call tone will sound for four 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 12 seconds to return to Standby mode

Channel Button



Using Your Radio

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.

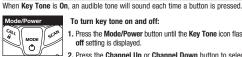


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Roger Beep Off

Channel Button

- To turn roger beep on and 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 the Lock button to transmit the call tone return to Standby.
- c. Do not press any buttons for 12 seconds to return to Standby mode.



Key Tone On/Off

To turn key tone on and off:

- 1. Press the Mode/Power button until the Key Tone icon flashes. The current on or off setting is displayed.
- 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 new setting and proceed to other functions.
- b. Press the Lock button to transmit the call tone return to Standby.
 - c. Do not press any buttons for 12 seconds to return to Standby mode.











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 Twowav Radio

Model: AM645

to which this declaration relates is in confirmity 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

alety (Alticle 3.1(a)). LN00330-1.2000/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 April 2006 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 electrial and electroin equipment.

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



Warranty & Customer Service

For warranty and customer service information, please go to:

www.cobrapmr.com

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