❋Cobra®

microTALK®

Operating Instructions for Your Cobra® microTALK®
2-WAY RADIO MODEL FRS 307-2 VP (ENGLISH)

Operating Instructions for Your Cobra® microTALK®
2-WAY RADIO MODEL FRS 307-2 VP (FRENCH)

Operating Instructions for Your Cobra® microTALK®
2-WAY RADIO MODEL FRS 307-2 VP (SPANISH)

call lock mode

❋Cobra

On
Off

Scan Power Saver DW Vox

microTALK
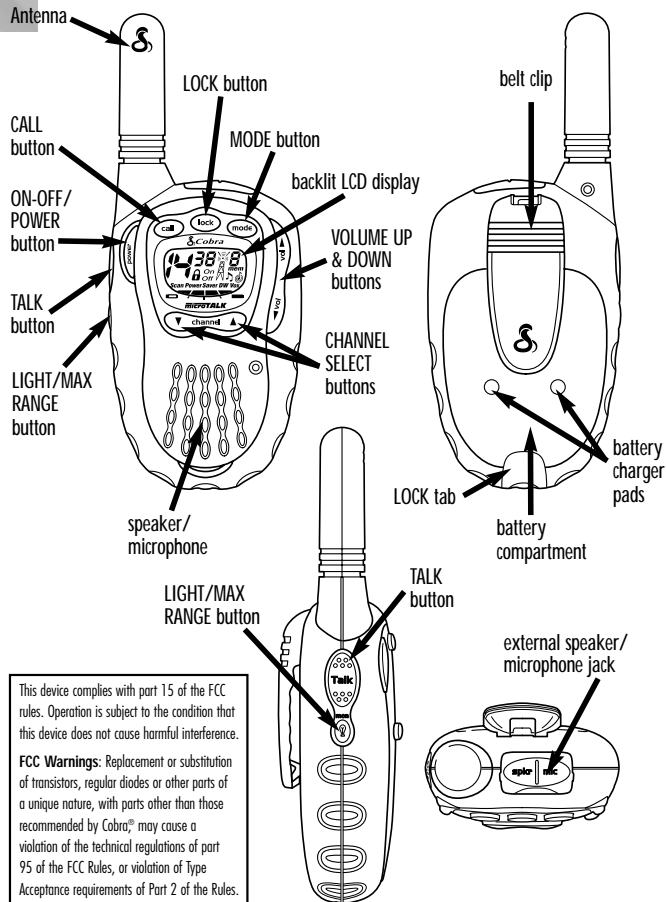
channel

Nothing comes
close to a Cobra™ (ENG)

Nothing comes
close to a Cobra™ (FR)

Nothing comes
close to a Cobra™ (SPAN)

English, pages 1-16
French, pages 17-32
Spanish, pages 33-46

Antenna

LOCK button

CALL button

MODE button

ON-OFF/ POWER button

backlit LCD display

VOLUME UP & DOWN buttons

TALK button

CHANNEL SELECT buttons

LIGHT/MAX RANGE button

speaker/ microphone

LIGHT/MAX RANGE button

TALK button

belt clip

battery charger pads

LOCK tab

battery compartment

external speaker/ microphone jack

This device complies with part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference.

FCC Warnings: Replacement or substitution of transistors, regular diodes or other parts of a unique nature, with parts other than those recommended by Cobra,® may cause a violation of the technical regulations of part 95 of the FCC Rules, or violation of Type Acceptance requirements of Part 2 of the Rules.

Product Features

- TWO-WAY RADIO with up to a 2 mile (3 km) range
- 14 CHANNELS
- 38 CTCSS PRIVACY CODES
- UHF FM frequencies
- BACKLIT LCD display
- EXTERNAL SPEAKER/MICROPHONE jack
- 10 MEMORY LOCATIONS
- FULL CHANNEL/CTCSS SCAN
- MEMORY SCAN
- DUAL WATCH
- MAXIMUM RANGE extender
- 5 CALL SIGNAL SELECTIONS
- VOX MODE for hands-free transmissions
- selectable "ROGER BEEP" confirmation tone
- selectable KEYSTROKE TONES
- AUTO SQUELCH
- CALL ALERT
- BATTERY SAVER circuitry
- LOCK button
- BELT CLIP
- WRIST STRAP
- WATER RESISTANT
- 2 NiMH BATTERY packs
- 2-PORT DESKTOP RAPID CHARGER
- 2 EARBUD MICROPHONES

Installing or Replacing Batteries

1. Pull down the LOCK tab to remove the battery compartment cover.

Lock tab
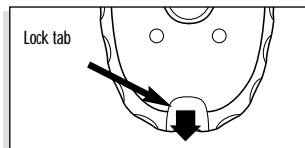
2. Insert your NiMH battery pack or four AAA batteries. Position batteries according to polarity markings. (**NOTE:** NiMH batteries are included with your microTALK® radio. When not using your NiMHs, always use high quality alkaline batteries. Recharge NiMH battery pack according to the instructions for the FA-CJ charger.)
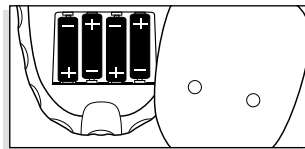
Only the Cobra® NiMH battery pack (included) can be recharged using the recharging pads on the back of the unit.

UP
Cobra
NiMH BATTERY PACK

INSTALL WITH CONTACTS FACING OUT

See page 16 for optional accessories.

Turning On Your microTALK® Radio

**1.** Press and hold the ON/OFF POWER button for 2 seconds. A series of audible tones will indicate the radio is on.

ON-OFF/POWER button
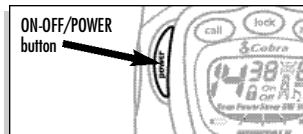
2. Your microTALK® is now in Standby mode, ready to receive transmissions. The radio is always in Standby mode except when the TALK, CALL, or MODE buttons are pressed. (For Advanced Features accessed through the MODE button, see page 7.)

Illuminating the Display

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

LIGHT/MAX RANGE button
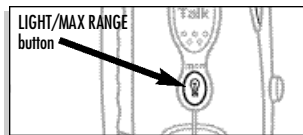
Battery Indicator

When only one segment of the battery indicator is blinking, the battery power is low and you should recharge your FA-BP battery pack or change your AAA alkaline batteries.

Auto Battery Save

Your microTALK® radio 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 and POWER SAVER will appear in the display. This will not affect the unit's ability to receive incoming transmissions.

Selecting a Channel

1. With the radio on, select any of the 14 channels by pushing the CHANNEL UP or CHANNEL DOWN button. (**NOTE:** Both radios must be tuned to the same channel to communicate.)

CHANNEL DOWN   CHANNEL UP

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.
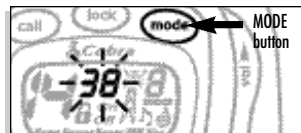
MODE button

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.
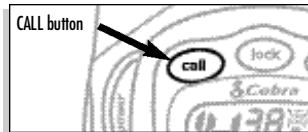
CHANNEL DOWN   CHANNEL UP
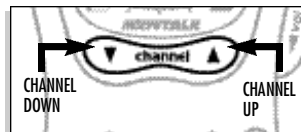
3. When your desired privacy code is displayed, press and release the LOCK button or press mode to enter selection and go to the next function.

LOCK button
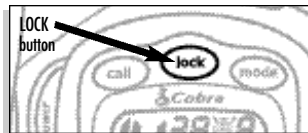
Calling Another Person

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.

CALL button

You cannot send or receive transmissions during the 2-second call tone. (See page 13 for instructions on how to select between 5 call tone settings.)

Talking to Another Person

1. Press and hold the TALK button.

TALK button

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

2 inches away
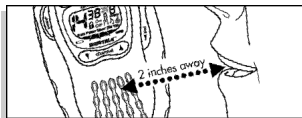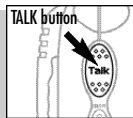
3. Release the button when you're finished talking and listen for a response. You cannot receive incoming calls while pressing the TALK button.

"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. (**NOTE:** The Roger Beep can be turned off and on, see page 12.)

Listening for a Response

When you are 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 pressing and holding the VOLUME UP or VOLUME DOWN buttons.

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. (**NOTE:** To learn more about the range of your microTALK® radio, see page 13.)

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
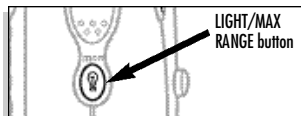
Using the Lock Function

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

1. While in Standby mode, press and hold the LOCK button for one second.
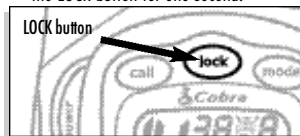
LOCK button

The Lock icon will be visible when the unit is locked.

Buttons that are NOT locked are the CALL, VOLUME, LIGHT/MAX RANGE, and TALK buttons, which are all fully functional while the unit is locked.

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, freeing your hands for other tasks. (Earbud microphones are included with your FRS 307-2 VP—see enclosed instruction sheet. For additional accessories (sold separately) see page 16.) To attach an external speaker/microphone:
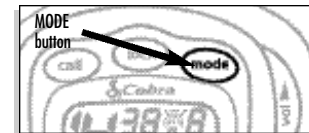
1. Open the SPKR/MIC tab on top of the unit.

external microphone speaker

speaker/microphone jack
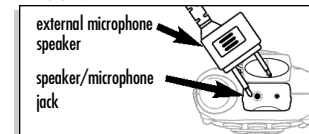
**2.** Insert the plug into the SPKR/MIC jack.

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.
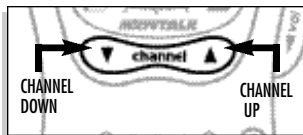

MODE button

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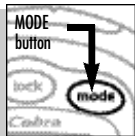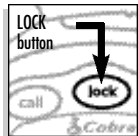
1. Press the MODE button until the VOX icon flashes and the current setting ("on" or "off") is displayed.
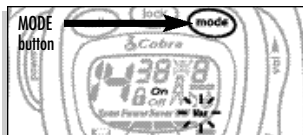
MODE button

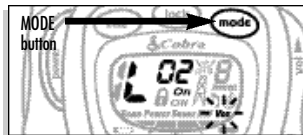**2.** Push the CHANNEL SELECT button up or down to turn VOX mode on or off.


CHANNEL DOWN   CHANNEL UP

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

LOCK button   MODE 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).

MODE button

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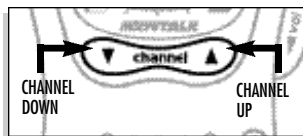
CHANNEL DOWN   CHANNEL UP

3. Press and release the LOCK 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:
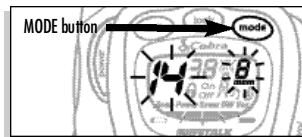
1. Push the MODE button until the Memory icon and the memory location flashes.
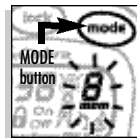
MODE button

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

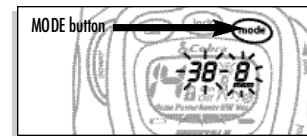CHANNEL SELECT button
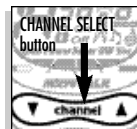
3. Press and release the MODE button again. The Memory icon and the main channel number will flash.
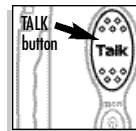

MODE button

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.
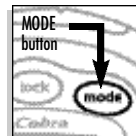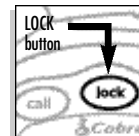

MODE button

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.


TALK button

8. Press and release the LOCK 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.


LOCK button   MODE button

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.
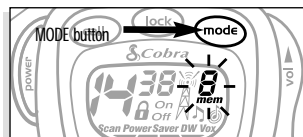
MODE button → mode

2. Select your desired memory location by pushing the CHANNEL SELECT button up or down. Press the LOCK button to enter your selection. To go on to the next function without selecting a memory location, press the MODE button.
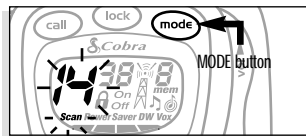
CHANNEL SELECT button ▼ channel ▲

LOCK button → lock
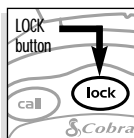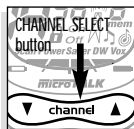
3. Repeat steps 1 and 2 to recall other memory locations.

Using the Scan Function

Your microTALK® radio can automatically scan main channels (1-14), 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.

mode
MODE button

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:
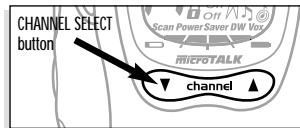
a) Press and hold the TALK button and talk. The radio will remain on that channel and return to Standby mode.

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 following page).

If you do not press any button within 10 seconds, the radio will automatically resume scanning main channels.
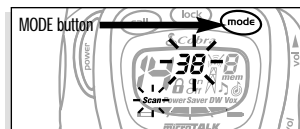
Using the Scan Function (continued)

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.

CHANNEL SELECT button → ▼ channel ▲

2. Press the MODE button until the Scan icon and the privacy code number flashes.

MODE button → mode

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 code 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 privacy code, then return to Standby mode.
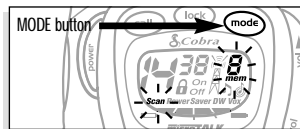
b) Push the CHANNEL SELECT button up or down to resume scanning privacy codes.

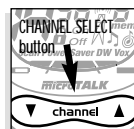c) Press the MODE button to proceed to memory location scanning.
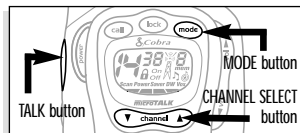
TALK button
MODE button
CHANNEL SELECT button

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.

MODE button → mode

2. Push the CHANNEL SELECT button up or down and the unit will begin scanning memory locations.
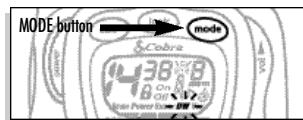
CHANNEL SELECT button ▼ channel ▲

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 memory location channel and return to Standby mode.
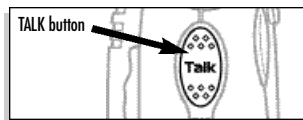
TALK button

b) Push the CHANNEL SELECT button up or down to resume scanning memory locations.

CHANNEL SELECT button
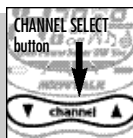
c) Press the MODE button to proceed to other functions.

If you do not press any button within 10 seconds, the radio will automatically resume scanning memory locations.

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. (To review, see pages 3-4.)
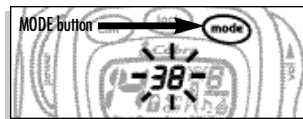
2. Press the MODE button until the Dual Watch icon flashes.

MODE button

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

CHANNEL SELECT button
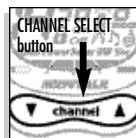
4. Press the MODE button. The privacy code flashes.

MODE button

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

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

LOCK button

7. To terminate Dual Watch and return to normal Standby mode, press and release the LOCK, TALK or MODE button.
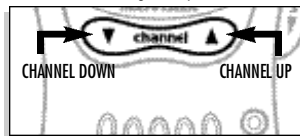
Turning Roger Beep Off and On

With Roger Beep turned on, your listener will hear an audible tone when you release the TALK button. To change Roger Beep mode:
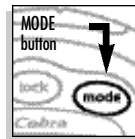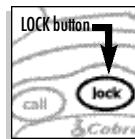
1. Press the MODE button until the Roger Beep icon flashes and the current setting ("on" or "off") is displayed.

MODE button

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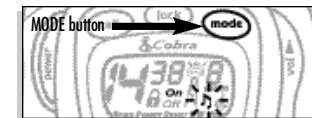

CHANNEL DOWN   CHANNEL UP

3. To enter the new setting you can press and release the LOCK button, or press no buttons for 15 seconds. Press the MODE button to enter the new setting and proceed to other functions.
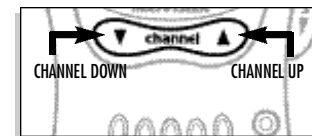

LOCK button   MODE button

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 the MODE button until the Keystroke tones icon flashes and the current setting ("on" or "off") is displayed.

MODE button

2. Push the CHANNEL SELECT button up or down to turn Keystroke Tones on or off.

CHANNEL DOWN   CHANNEL UP

3. To enter the new setting you can press and release the LOCK button, or press no buttons for 15 seconds. Press the MODE button to enter the new setting and proceed to other functions.

Changing Call Tone Settings

You can choose between five different call tone settings to transmit a unique call alert. 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.

CALL button

POWER button
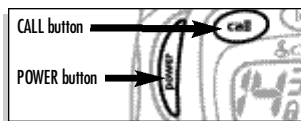
2. Push the CHANNEL SELECT button up or down to hear the other call tone settings.

CHANNEL DOWN

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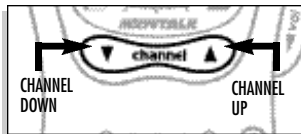
3. With the number of your desired call tone setting displayed, press and release the TALK button or LOCK button. Your selection will be entered.

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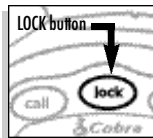
4. If no buttons are pushed for 15 seconds, the unit will automatically enter the last call tone pattern that was displayed.

microTALK® Range

Your microTALK® radio has a range of up to 2 miles (3 km). 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.
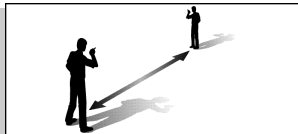
Remember, you can achieve maximum range by using Maximum Range Extender. (See page 5.)

FOR PRODUCTS PURCHASED IN CANADA

Your new Cobra® FRS is covered by a two (2) year replacement warranty. If any manufacturing defect becomes apparent in this product within two years from the original date of purchase, it will be replaced. Please return the FRS radio to your dealer with original or copy of dated proof of purchase.

This warranty does not cover damages due to careless handling, negligence, accident, abuse or failure to follow operating instructions. Alteration of this product or defacing of the serial number cancels all obligations of this warranty. This warranty gives you specified legal rights. Additional warranty rights may be provided by law in some areas.

Customer Assistance

After reading this owner's manual, if you have any questions about installing or operating your microTALK® radio, or if you are missing any parts, please contact Cobra® first. Do not return this product to the store. Cobra® Electronics offers the following customer support service.

• **Technical assistance is available on-line in the Frequently Asked Questions (FAQ) section at www.cobra.com or by e-mail to productinfo@cobra.com.**

For out of warranty service, ship prepaid this product to: AVS Technologies Inc., 2100 TransCanada Hwy S., Montreal, Quebec, H9P 2N4. We reserve the right to repair or replace the unit with an equivalent product. Please include the following information:

Date of purchase:

Model No.:

Dealer Purchased from:

Dealer address:

Dealer phone No.:

General Specifications

A. FREQUENCIES

CHANNEL ASSIGNMENT

CH 1: 462.5625MHz	CH 8: 467.5625MHz
CH 2: 462.5875MHz	CH 9: 467.5875MHz
CH 3: 462.6125MHz	CH 10: 467.6125MHz
CH 4: 462.6375MHz	CH 11: 467.6375MHz
CH 5: 462.6625MHz	CH 12: 467.6625MHz
CH 6: 462.6875MHz	CH 13: 467.6875MHz
CH 7: 462.7125MHz	CH 14: 467.7125MHz

B. RECEIVER

	UNIT	NOMINAL
1. SENSITIVITY		
FOR 12 DB SINAD	dBm	-121
FOR CALL SIG DETECTION	dBm	-121
2. MAX. AUDIO OUTPUT @10% THD	mW	200
3. MAX. S/N RATIO @ 1mV RF INPUT	dB	50
4. SQUELCH		
a) SENSITIVITY	dB m	-121
b) ATTACK TIME	mS	150
c) CLOSING TIME	mS	200
5. AUDIO FREQUENCY RESP.		
@ 300 HZ	dB	-3
@ 2500 HZ	dB	-10
6. SIGNAL DISPLACEMENT BW	+/-KHZ	5
7. ADJACENT CH. REJECTION	dB	60
8. INTERMODULATION REJECTION	dB	65
9. SPURIOUS RESPONSE REJECTION	dB	55

C. TRANSMITTER

	UNIT	NOMINAL
1. POWER	mW	500
2. CARRIER FREQ. STABILITY	± Hz	500
3. MODULATION LIMITING	KHz	2.5
4. CARRIER ATTACK TIME	mS	30
5. AUDIO FREQUENCY RESPONSE		
@ 300 HZ	dB	-10
@ 2500 HZ	dB	4
6. AUDIO DISTORTION	%	3
7. HUM NOISE	dB	38
8. TRANSIENT FREQ. BEHAVIOR		
a)TX ON	mS	30
b) TX OFF	mS	5

D. POWER SUPPLY

	UNIT	NOMINAL
1. BATTERY LIFE (1:1:18 RATIO)	HR	24
2. BATTERY OPERATING RANGE	V	4.0 - 6.0

Replacement Belt Clip FA-BC4

Vox Headset Mic MA-VOX

Ear Bud Mic with PTT MA-EBM

Lapel Speaker/ Microphone MA-SM

NiMH Rechargeable Battery Pack FA-BP

2 Port Desktop NiMH Charger FA-CF

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