



## Cobra PX650 Two-Way Radio Model Owner's Manual

[Home](#) » [Cobra](#) » Cobra PX650 Two-Way Radio Model Owner's Manual 

### Cobra PX650 Two-Way Radio Model



Before operating the radio, please read all safety and operating instructions. Save all instructions in a safe place for future reference.

 **WARNING: Important Safety Instructions**

1. Only accessories included in this package or specified by the manufacturer should be used with the radio. The 5V micro-USB charging input is compatible with most high quality micro-USB chargers that fully conform to the USB standards.
2. Do not use cleaners or solvents to clean the exterior of the radio. Use only a damp or dry cloth.
3. Do not expose this product to splashing or dripping water.
4. Do not attempt to service the receiver yourself. Removing the cover will void the warranty. Changes or modifications not expressly approved by Cobra may void the user's authority granted by the FCC to operate this device and should not be made.
5. Do not plug the wall adaptor into the power outlet if the outlet is wet.
6. Do not use any portable radio that has a damaged antenna. If a damaged antenna comes into contact with your skin, a minor burn can result.



**WARNING: Important Safety Instructions for Battery Read All Instructions**

- Do not incinerate the battery even if it is severely damaged or is completely worn out.
- Do not discard battery in a fire. The battery pack can explode in a fire.
- Do not replace battery in any area labeled "Hazardous Atmosphere". Any sparks created in a potentially explosive atmosphere can cause an explosion or fire.
- Do not disassemble, crush, puncture, shred, or otherwise attempt to change the form of your battery.
- Do not dry a wet or damp battery with an appliance or heat source, such as a hair dryer or microwave oven.
- A small leakage of liquid from the battery cells may occur under extreme usage or temperature conditions. This does not indicate a failure. Do not open, deform or mutilate the battery as there may be corrosive materials which can cause damage to eyes or skin and may be toxic if swallowed.

However, if the outer seal is broken and this leakage gets on your skin:

- a. Wash quickly with soap and water.
- b. Neutralize with a mild acid such as lemon juice or vinegar.
- c. If battery liquid gets into your eyes, flush them with clean water for a minimum of 10 minutes and seek immediate medical attention.

This product uses Lithium Polymer Battery. Do not transport package if damaged, a fire hazard could exist.

## Contents

- 1 Recycle Battery
- 2 Introduction
  - 2.1 Making Life Easier and Safer
- 3 Customer Assistance
  - 3.1 Product Service & Support
  - 3.2 For Assistance In The U.S.A.
  - 3.3 Operational Cautions
  - 3.4 Electromagnetic Interference
- 4 Product Features
  - 4.1 Features
  - 4.2 LED indicators
  - 4.3 Caring for Your microTALK® Radio
  - 4.4 Installing Batteries (Battery already pre-installed)
- 5 Using Your Radio
  - 5.1 Getting Started
  - 5.2 Turning your Radio On and Off
  - 5.3 Battery Low
  - 5.4 Auto Battery Save
  - 5.5 Communicating with Another Person
  - 5.6 Listening for a Response
  - 5.7 To Adjust Volume
  - 5.8 Call Button
  - 5.9 Auto Squelch/Maximum Range
  - 5.10 Lock Function
  - 5.11 microTALK® Range
  - 5.12 Current Channel Number Checking
  - 5.13 To Select a Channel
  - 5.14 Privacy Codes
  - 5.15 Set CTCSS Privacy Codes
  - 5.16 Reset all channels with factory default privacy codes
- 6 More Functions
  - 6.1 Scrolling Through the FUNC Features.
  - 6.2 Voice Activated Transmit (VOX)
  - 6.3 Emergency Alert Mode
- 7 General Specifications
  - 7.1 Frequency Allocation and Compatibility
  - 7.2 IMPORTANT NOTICE
  - 7.3 Safety Information for microTALK Radios
  - 7.4 Important
  - 7.5 Normal Position:
  - 7.6 FCC Part 15.21 Warning Statement
  - 7.7 IC RSS-GEN
  - 7.8 Radiation Exposure Statement:
- 8 Warranty & Trademark Acknowledgment
  - 8.1 Limited One-Year Warranty
  - 8.2 For Products Purchased Outside the U.S.A.
  - 8.3 Trademark Acknowledgment
- 9 Documents / Resources
  - 9.1 References
- 10 Related Posts

## Recycle Battery

Local, state or federal laws may prohibit disposal of batteries in ordinary trash. Consult your local waste authority for information regarding available recycling and/or disposal options.

## Introduction

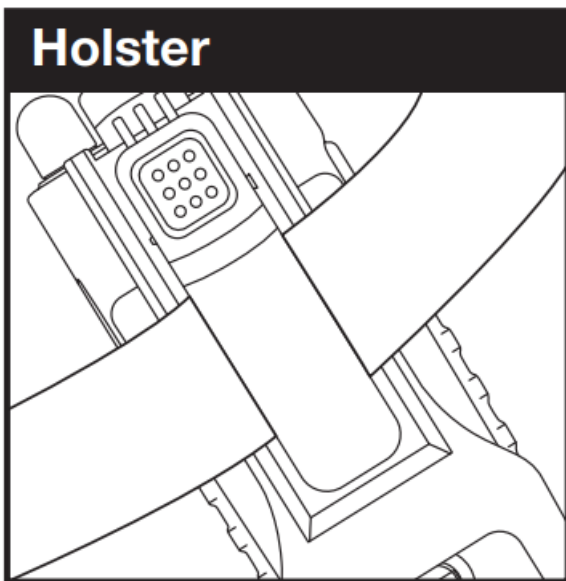
### Making Life Easier and Safer

**Staying in touch is convenient and easy when using your radio. Some of the many uses you will discover include:**

Communicating with others while hiking, biking, and working; keeping track of family and friends at a crowded public event; checking with travel companions; connecting with neighbors; arranging meeting spots with others while shopping at the mall; talking with your colleagues in warehouse or jobsite.

### Secure your radio while on the go.

Carrying your radio with you is easy when using the holster. The holster easily attaches to your belt, purse, or backpack.



## Customer Assistance

### Product Service & Support

In this user's guide, you should find all the information you need to operate your microTALK® radio. If you require further assistance after reading this guide, Cobra offers the following customer assistance services:

#### For Assistance In The U.S.A.

For any questions about operating or installing this new Cobra product, PLEASE CONTACT COBRA FIRST... do not return this product to the retail store. The contact information for Cobra will vary depending on the country in which you purchased and uses the product. For the latest contact information, please go to [www.cobra.com/support](http://www.cobra.com/support) or call 1-800-543-1608.

If your product should require factory service, please go to [www.cobra.com/support](http://www.cobra.com/support) and follow the instructions.

### Operational Cautions

Exposure to high volume sound levels may cause temporary or permanent damage to your hearing. Although there is no single volume setting that is appropriate for everyone, you should always use your radio with the volume set at low level and avoid prolonged exposure to high volume sound levels.

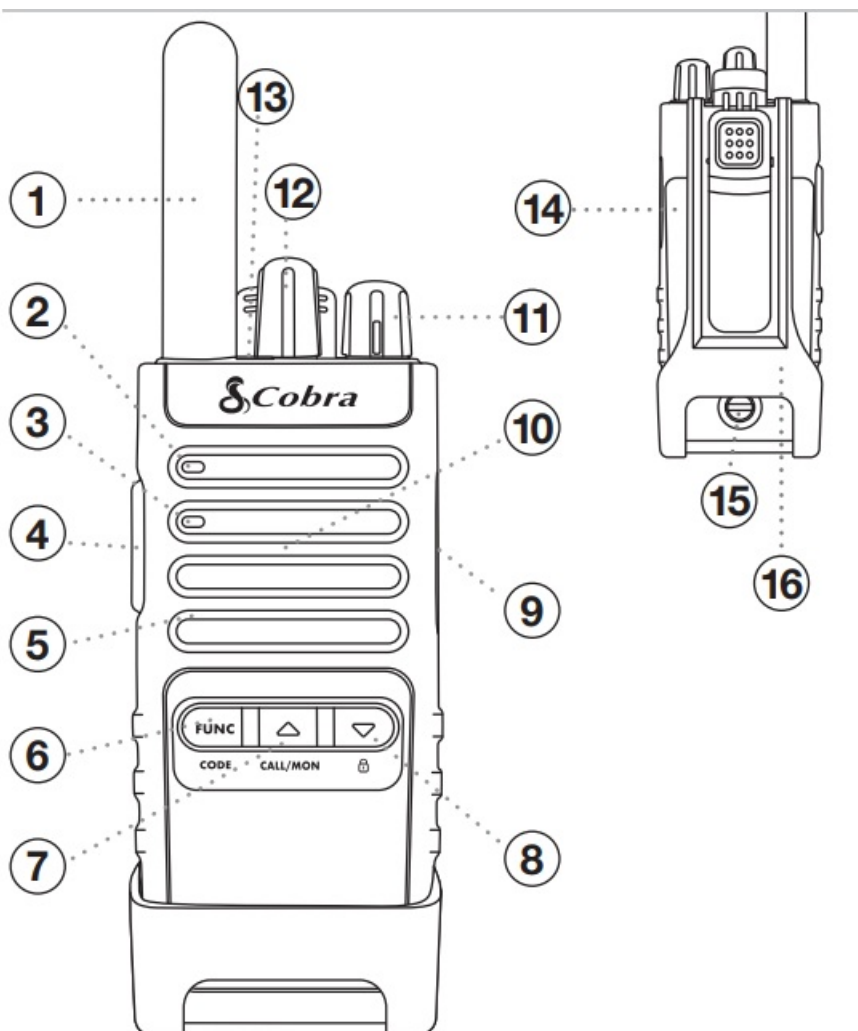
1. Set the volume control in a low position and use as low a volume as possible.
2. Avoid turning up the volume to block out noisy surroundings. Whenever possible, use your radio in a quiet environment with low background noise.
3. Limit the amount of time you use headsets or earpiece at high volume levels.
4. When using the radio without a headset or earpiece, do not place the radio's speaker directly against your ear.
5. Observe all signs and instructions that require an electrical device or RF radio product to be switched off in designated areas, such as gas/refueling stations, hospitals, blasting areas, potentially explosive atmospheres, or aircraft.
6. If you experience a skin irritation after using this product, discontinue use and seek medical attention.
7. If the product or charger: overheats; has a damaged cord or plug; has been dropped or damaged; has been dropped into water, disconnect any charger from its power supply, discontinue use of the product.

### **Electromagnetic Interference**

Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed, or otherwise configured for electromagnetic compatibility. Turn off your radio in any facility where posted notices instruct you to do so. These facilities may include hospitals or health care facilities that may be using equipment that is sensitive to external RF energy.

- When instructed to do so, turn off your radios when on board an aircraft. Any use of a RF device must be in accordance with applicable laws, regulations and airline crew instructions.
- Some radios may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer or physician to discuss alternatives.
- If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your doctor or physician may be able to assist you in obtaining this information

### **Product Features**



1. Antenna
2. LED indicator
3. VOX indicator (Blue LED)
4. Push-to-Talk Button
5. Microphone
6. Function / Privacy Code Button
7. Up / Call / Monitor Button
8. Down / Lock Button
9. External Speaker / Microphone Jack / USB Charge
10. Speaker
11. Power On/Off / Volume Knob
12. Channel / Privacy Code Selection Knob
13. Emergency Alert Button
14. Battery Compartment Cover
15. Battery Door Screw
16. Holster with Swivel Clip

## Features

- 22 Channels with Preset privacy codes
- User Adjustable Privacy Codes (38 CTCSS codes)

- Hands-Free Operation (VOX)
- Call Alert
- Button Lock
- Speaker/ Microphone/ Charge Jack
- Roger Beep Selectable On/Off
- Battery/Power Saver
- Keystroke Tones
- Low Battery Audible Alert
- Auto Squelch
- Maximum Range Extender
- Holster with Swivel Clip
- Emergency Call
- IP54 Waterproof and Dustproof

#### LED indicators

Standby Mode	<b>Green</b> LED flashes every 5 seconds
When Battery low	<b>Red</b> LED flashes every 5 seconds
When you press and hold <b>Talk</b> button and the Radio is transmitting	<b>Green</b> LED on
During VOX feature enabled	<b>Blue</b> LED flashes every 5 seconds
During Emergency Alert Mode	<b>Green</b> and <b>Red</b> LED flashes alternatively per second
Power Off the Radio during charging	
Under Charging	Solid <b>Red</b> (No flash)
Fully Charged	Solid <b>Green</b> (No flash)



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

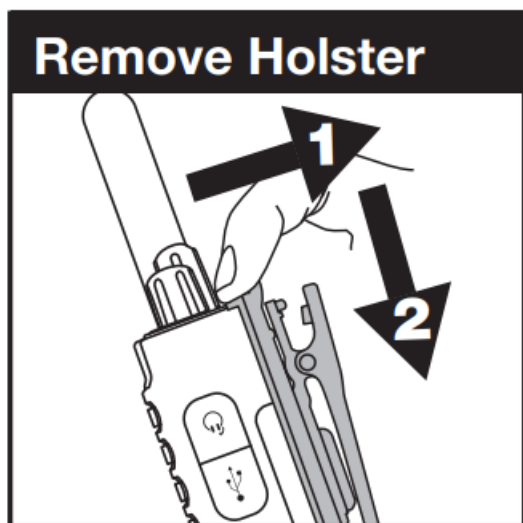
#### Caring for Your microTALK® Radio

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

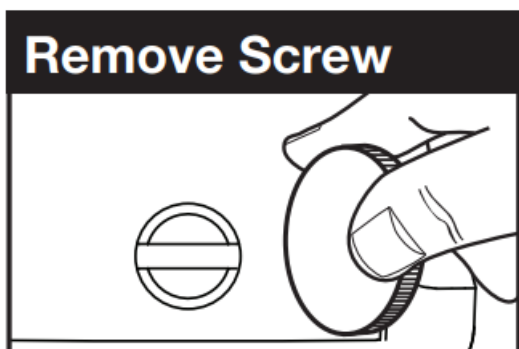
## Installing Batteries (Battery already pre-installed)

### To install or replace batteries:

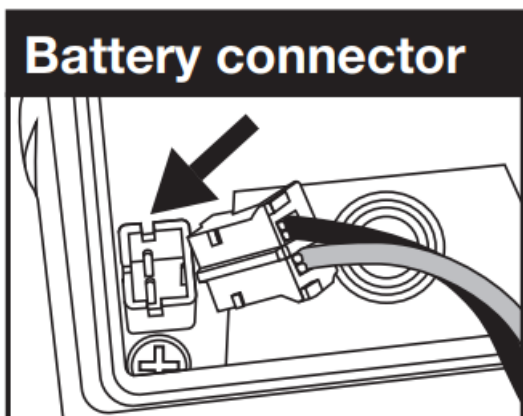
1. Remove Holster by releasing the belt clip latch and slide the holster downward.



2. Using a flat head screw driver or edge of a coin (a quarter may be used), remove the screw securing the back battery panel.

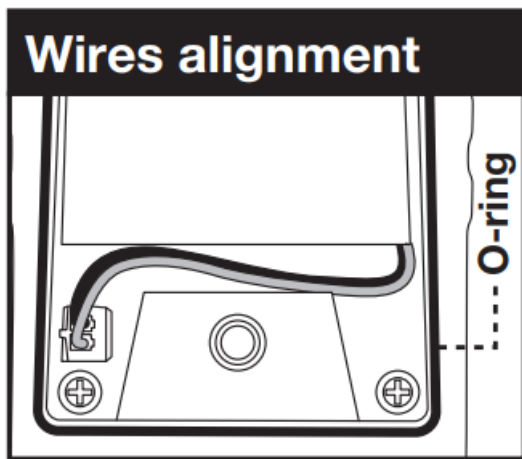


3. Open the battery compartment cover, connect the connector of the battery to the socket of the radio inside the battery compartment in proper polarity.



4. Place the battery inside battery compartment and align the wires as shown.  
(Note: Carefully tuck the wires into the battery compartment completely. Anything obstructing the O-ring seal can damage the radio).

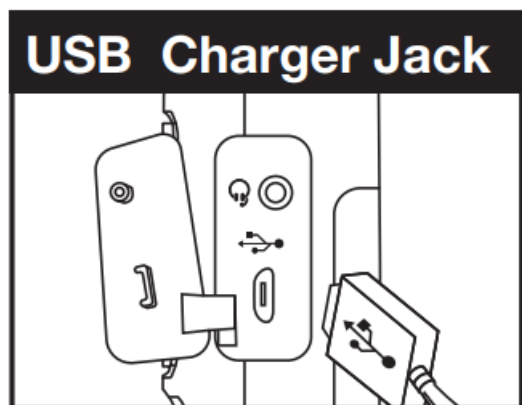




5. Place the battery compartment cover, screw down the screws mildly. (Screw nuts may be damaged if overtighten)
6. Re-attach the holster.

#### **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 right side of the radio.
3. Plug the cable into USB-compatible power port.



Only use the supplied rechargeable batteries and desktop charger for recharging your Cobra microTALK® radio. Please charge new batteries for 8 hours for first time of use. Cobra recommends your radio is turned off while being charged.

### **Using Your Radio**

#### **For charging microTALK® radio(s) in desktop charger:**

1. Insert radio(s) into desktop charger as shown.
2. Alternately 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 on desktop charger will stay **on** (Red) 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 at the right of the radio.

The radio will have Red LED indicator ON while charging. Cobra recommends your radio be turned off while being charged.

## Quick Start

1. Turn ON/OFF/Volume Knob clockwise to turn the radio on and counter clockwise to turn the radio off.
2. Select a desired channel. (Details please refer P.9)



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

## Getting Started

### Waterproof

This radio is waterproof to IP54 standards. It is dust / splashproof from any direction. The radio is resistant to water and rain splashes only when the battery cover, headset accessory and micro-USB ports are sealed. Open the battery compartment door or headset port/USB charge cover only when the radio is dry. Use of a headset accessory should be in dry environments only.

The micro-USB cable and plug is not waterproof. Do not expose the charger to rain or snow. Charge the radios only in a dry location. The battery door must be tightly closed with the screw to maintain the weatherproof seal of the radio.

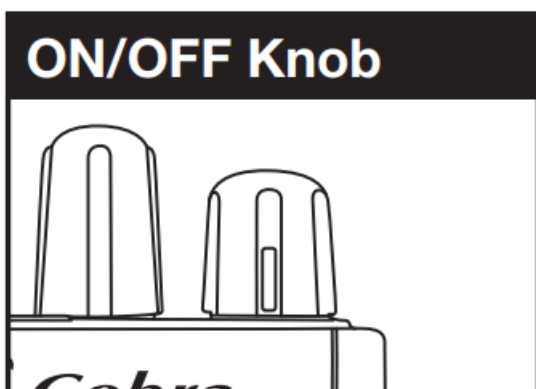
### Turning your Radio On and Off

Turn **ON/OFF** Knob clockwise to turn the radio on and counterclockwise to turn the radio off.

1. In the **ON** position, the radio chirps, and the current channel number and user adjusted privacy code setting (if any) prompted after that.

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 other buttons are pressed or the **Channel/Privacy Code Selection** Knob is turned.

2. In Standby mode, **Green** LED flashes every 5 seconds.



### Battery Low

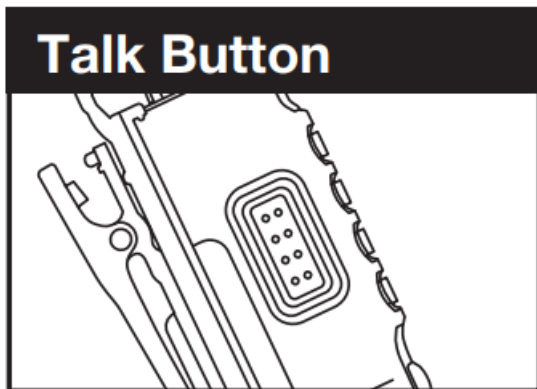
When battery power is low, **Red** LED flashes every 5 seconds. Voice prompt “**Please charge**” will be heard approximately 30 minutes before device automatically powers off. Your batteries should be recharged. It normally takes about 8 hours to fully charge batteries.

### Auto Battery Save

If there are no transmissions within 10 seconds, the radio will automatically switch to **Battery Save** mode. 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

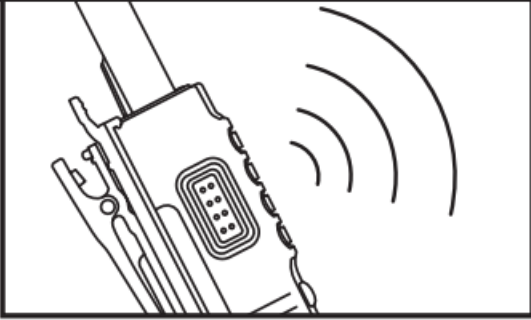


Both radios must be tuned to the same channel/privacy code to communicate.

### 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.

## Listening

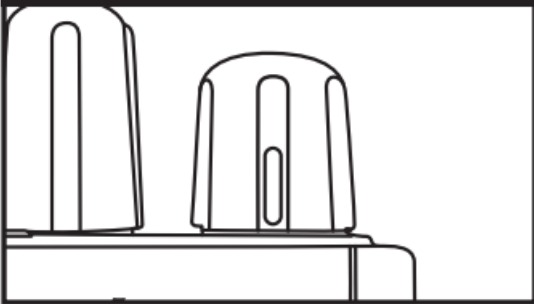


### To Adjust Volume

Press and hold **Call/Mon** Button for three seconds to turn off the auto squelch, then rotating **Volume** Knob until you reach a comfortable listening level.

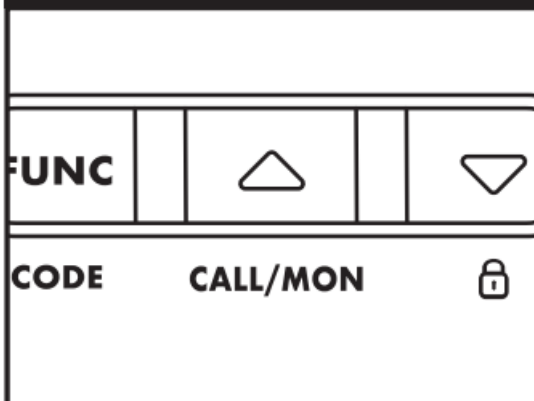
1. Rotate **Volume** Knob clockwise to increase the volume.

## Volume Knob



2. Rotate **Volume** Knob counterclockwise to decrease the volume.
3. Press and hold **Call/Mon** Button to enable the auto squelch.

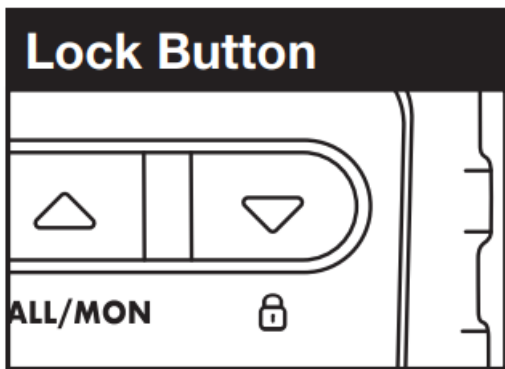
## Call/Mon Button



Do not hold the radio close to your ear. If the volume is set to a high level, it could damage your ear.

### Call Button

Press and release the **Call/Mon** button to alert others that you are calling.



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

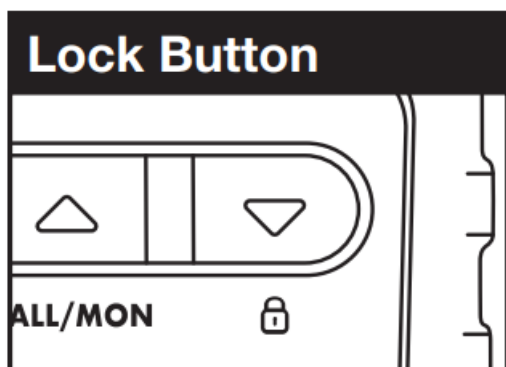
#### Auto Squelch/Maximum Range

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 turn **off** auto squelch (or turn **on** maximum range extender), allowing all signals to be received and extending the maximum range of your radio.

#### To turn maximum range extender on (Turn off auto squelch):

- Press and hold the **Call/Mon** button for at least three seconds until you hear two beeps which indicates the maximum range extender is on.



#### To turn maximum range extender off (Turn on auto squelch):

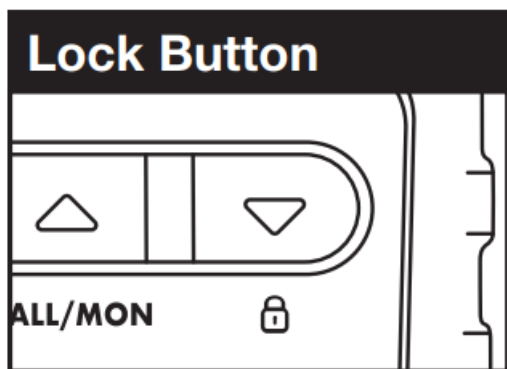
- Press and hold the **Call/Mon** button.

#### Lock Function

The **Lock** function locks the **FUNC/CODE** button and **Channel** Knob to prevent accidental operation.

#### To turn the lock on or off:

- Press and hold the **Lock** button for two seconds.

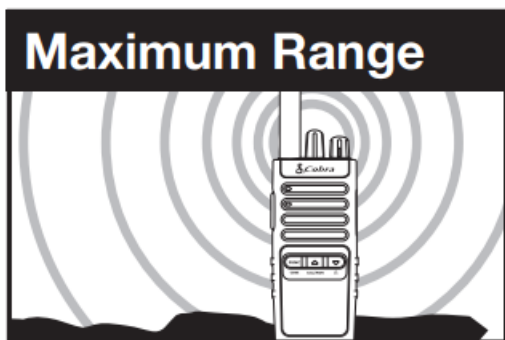


A double beep sound is used to confirm your lock **on** or **off** request. When in Lock mode, a 3 beeps warning shows that the **FUNC/CODE** button and **Channel** knob would not be operated.

#### microTALK® Range

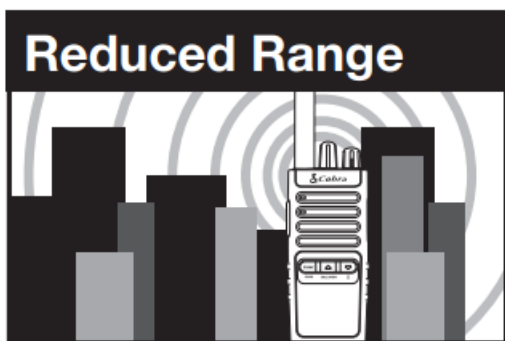
Your range will vary depending on terrain and conditions.

In flat, open country your radio will operate at maximum range.

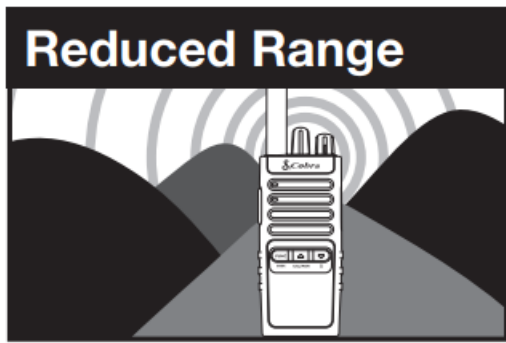


Buildings and foliage in the path of the signal can reduce the range of the radio.

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



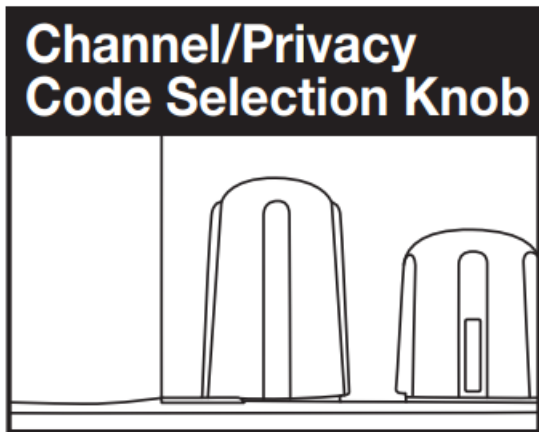
On Channels 8 through 14, your radio automatically switches to low power, which will limit the range the radio can communicate.



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

#### Current Channel Number Checking

1. During Standby mode, turn the **Channel/Privacy Code Selection** Knob one step, the current channel number and user adjusted privacy code setting (if any) prompted.



2. After the current channel number prompted, choose one of the following.
  - a. Turn the **Channel/Privacy Code Selection** Knob clockwise or counterclockwise to change channel number.
  - b. Press the **Talk** button to return to **Standby** mode.
  - c. Do not press any buttons or turn the **Channel/Privacy Code Selection** Knob for 6 seconds, the current channel number prompted again, and then return to **Standby** mode

#### Voice Prompt Messages about Channels and Privacy codes

Voice Prompt Message	Meaning
"Channel <b>N</b> "	The current channel is still preset with default privacy code system and code number. See <b>Channel and Default Privacy Code Table</b> on page 10.
"Channel <b>N</b> *, Code <b>M</b> "	The current channel had been assigned with a user selected CTCSS code number <b>M</b> *.
"Channel <b>N</b> *, Code Off"	No privacy code was set on the current channel, and allows all signals to be heard on a channel with any CTCSS or DCS privacy code.

\*Remarks: N is a channel number from 1 to 22; M is a CTCSS code number from 1 to 38.



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

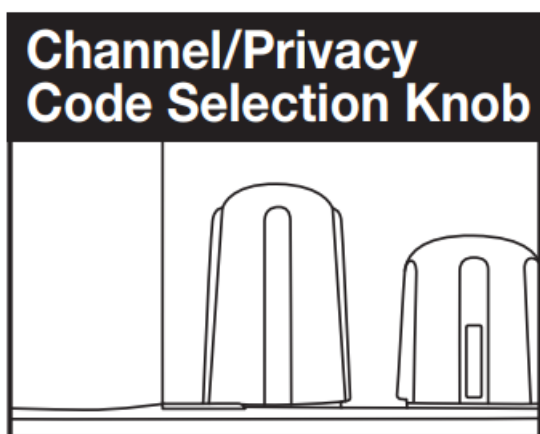


See Page 12 for resetting all the channels and privacy code setting to factory default.

### To Select a Channel

The radio has 22 Channels that preset with customized privacy codes, see **Channel and Default Privacy Code Table** on page 10.

1. During **Standby** mode, turn the **Channel/Privacy Code Selection Knob** one step, the current channel number and user adjusted privacy code setting (if any) prompted.
2. After the current channel number prompted, turn the **Channel/Privacy Code Selection Knob** clockwise or counterclockwise again to select a channel.
3. When the desired channels selected, choose one of the following.
  - a. Turn the **Channel/Privacy Code Selection Knob** clockwise or counterclockwise to change a new channel number.
  - b. Press the **Talk** button to enter the new setting and return to **Standby** mode.
  - c. Do not press any buttons or turn the **Channel/Privacy Code Selection Knob** for 6 seconds to enter the new setting, the current channel number prompted again, and then return to **Standby** mode.



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



See Page 16 for frequency allocations charts.



See Page 12 for resetting all the channels and privacy code setting to factory default.

### Privacy Codes

Your 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 privacy codes for factory default channel preset. The CTCSS (Continuous Tone Coded Squelch System) can be used on all channels.

For ease of use and to reduce interference from other users, the 22 channels of your radio have been customized,



see **Channel and Default Privacy Code Table**.

**Channel and Default Privacy Code Table**

Channel	Privacy Code	
	Type	Number
1	CTCSS	1
2	CTCSS	11
3	CTCSS	22
4	CTCSS	33
5	DCS	1
6	DCS	11
7	DCS	22
8	DCS	33
9	DCS	44
10	DCS	55
11	DCS	66
12	DCS	77
13	CTCSS	1
14	CTCSS	11
15	CTCSS	22
16	CTCSS	33
17	DCS	1
18	DCS	11
19	DCS	22
20	DCS	33
21	DCS	44
22	DCS	55

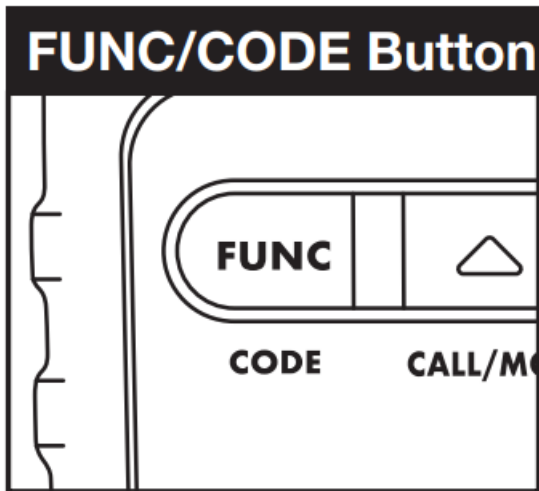


You can change your radio Privacy Codes in order to work with other radios with different privacy codes or radio without privacy codes. See page 11 and 12 for procedures.

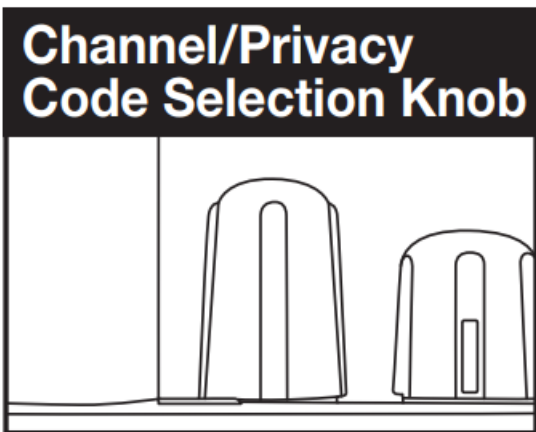
#### **Set CTCSS Privacy Codes**

**To select a CTCSS privacy code:**

1. After selecting a channel, then return to Standby mode.
2. Press and hold the FUNC/CODE button until the current code number prompted. The following messages may be prompted:



- a. "**Channel Code Memory**" means the current channel is still preset with default privacy code system and code number. See **Channel and Default Privacy Code Table** on page 10, or
- b. The current CTCSS Code Number, or
- c. "**Code Off**" means no privacy code was set on the current channel, and allows all signals to be heard on a channel.



3. After the current code number prompted, turn the **Channel/Privacy Code Selection** Knob clockwise or counterclockwise again to select a desired CTCSS code number;  
Or, press the **UP** or **DOWN** buttons to select CTCSS code number;  
Or, press and hold the **UP** or **DOWN** buttons for fast skipping.
4. When the desired CTCSS code number selected, choose one of the following.
  - a. Turn the **Channel/Privacy Code Selection** Knob clockwise or counterclockwise, or press the **UP** or **DOWN** buttons to change a new CTCSS code number.
  - b. Press the **Talk** button to enter the new setting and return to Standby mode.
  - c. Do not press any buttons or turn the **Channel/Privacy Code Selection** Knob for 6 seconds to enter the new setting, the current channel number and privacy code setting (if any) prompted again, and then return to **Standby** mode.



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 number (CTCSS or DCS). Each channel will remember the last privacy code system and number you select.



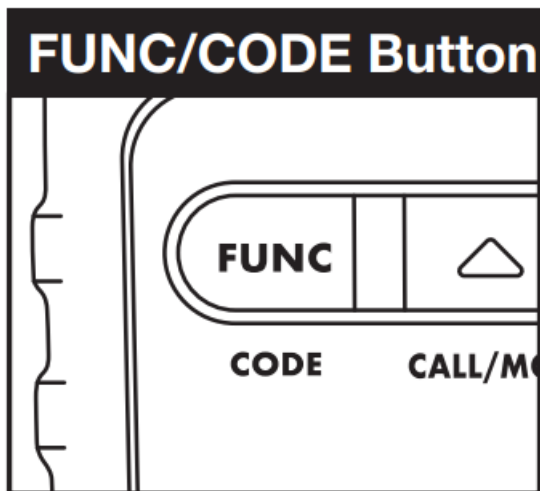
The privacy code OFF is not a privacy code, but allows all signals to be heard on a channel that is set to 0 on both the CTCSS and DCS systems.



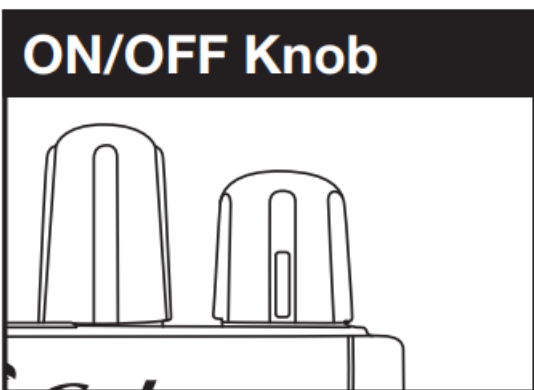
See Page 12 for resetting all the channels and privacy code setting to factory default.

#### **Reset all channels with factory default privacy codes**

1. Press and hold the FUNC/CODE button and turn the Power ON/OFF Knob to turn on the radio simultaneously.



2. 4 consecutive beeps following with a message “Code Memory OFF” prompted, all the channels on the radio has been reset to factory default privacy codes successfully. Current channel would become channel 1 as default also.



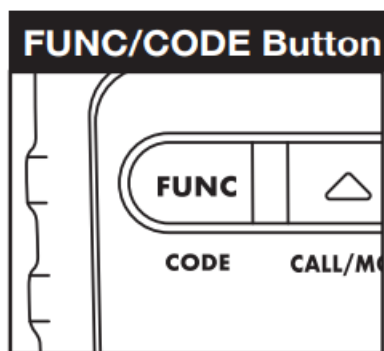
See **Channel and Default Privacy Code Table** on page 10.

### **More Functions**

#### **Scrolling Through the FUNC Features.**

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

Set Vox On/Off  
Set Vox Sensitivity  
Set Roger Beep On/Off

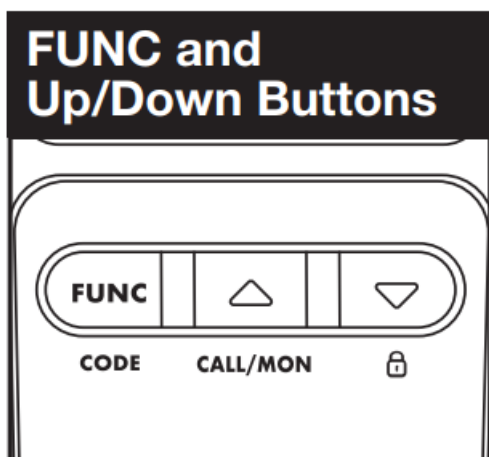


### Voice Activated Transmit (VOX)

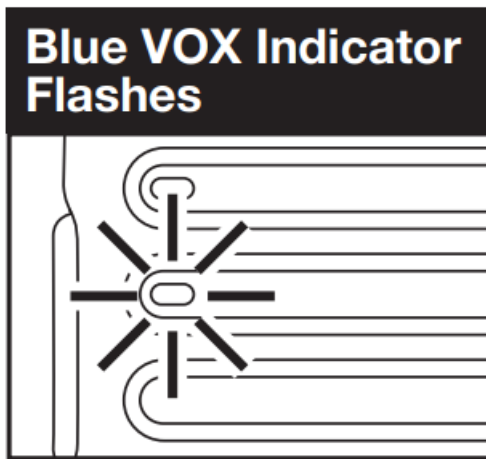
In VOX mode, your microTALK® radio can be used “hands-free,” automatically transmitting when you speak. You can set the VOX sensitivity level to fit the volume of your voice and avoid transmissions triggered by background noise.

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

1. During **Standby** mode, briefly press and release **FUNC** button, the current **VOX** status is prompted.



2. Press the **Up** or **Down** button to turn VOX **On** or **Off**.
3. Choose one of the following
  - a. Press the **FUNC** button to enter the new setting and proceed to other functions.
  - b. Press the **Talk** button to enter the new setting and return to **Standby** mode.
  - c. Do not press any buttons for 6 seconds to enter the new setting and return to **Standby** mode.



4. Once the **VOX** is turned on, Blue **LED** flashes every 5seconds.

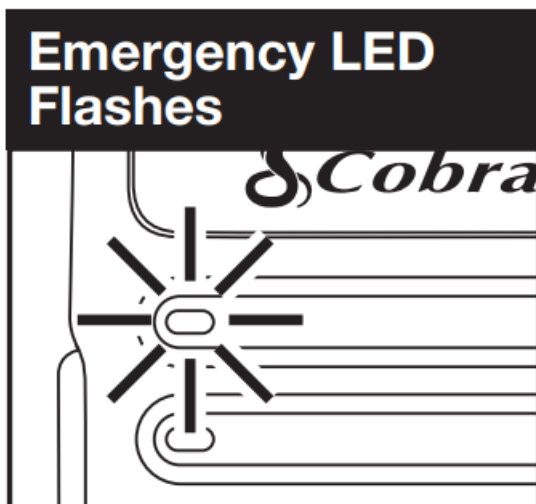
#### To set VOX sensitivity:

1. Press the **FUNC** button until the current **VOX** sensitivity level is prompted.



The current VOX sensitivity level is prompted, the value would be from 1 to 5. VOX 5 is the most sensitive level and VOX 1 is the least sensitive level.

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

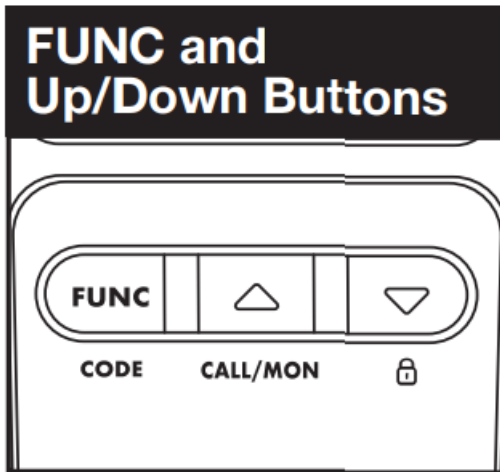


Your listener will hear an audible tone when you release the Talk button. This alerts the other party that you are finished talking and it is OK for them to speak.

#### To turn roger beep on or off:

1. Press the **FUNC** button until the current **Roger Beep** status is prompted.
2. Press the **Up** or **Down** button to select Roger Beep **On** or **Off**.
3. Choose one of the following.

- a. Press the **FUNC** button to enter the new setting and return to **Standby** mode.
- b. Press the **Talk** button to enter the new setting and return to **Standby** mode.
- c. Do not press any buttons for 6 seconds to enter the new setting and return to **Standby** mode.



### Emergency Alert Mode

The Emergency Alert feature can be used to signal members in your group of your need for urgent help. PX650 series radios will operate in an automatic “hands-free” emergency control mode for a total of 30 seconds after activating the Emergency Alert. PX650 series radios in your group will automatically advance the speaker volume to the maximum setting and sound a warbling alert tone for 8 seconds. The alert tone is emitted from your own radio speaker and the receiving radios in your group. After the 7 seconds alert, any spoken words or incidental sounds at your end will be transmitted to the group for 23 seconds. For the 30 seconds duration of Emergency Alert mode, PX650 series radio controls and buttons will be locked on the radio initiating and receiving the Emergency Alert to ensure transmission of the emergency message.

1. Press and hold the **Emergency Alert** button for 3 seconds.
2. Release the button after the alert tone begins to sound and the **Red** and **Green** LED flashes alternatively each second. There is no need to continue to hold the **Emergency Alert** button or use PTT for your message to be transmitted.
3. After the alert tone ends, you may speak into the microphone. Your Voice or incidental sounds will be transmitted. The **Red** and **Green** LED flashes alternatively for the duration of the 22 seconds period.
4. After 30 seconds in total, your radio speaker will emit a Talk Confirmation Tone and the Emergency Alert Mode LED indication will stop flash. Operation then returns to normal two-way mode.



**Note:** All Cobra PX650/RX680/CXY900 series radios are fully compatible with the Emergency Alert feature if they would be tuned to the same channel and same privacy code. Radio brands other than Cobra PX650/RX680/CXY900 series can receive the emergency alert signal, but may not respond with adjusted volume settings, locked controls, or a warbling alert tone. Users of other radio models set to the same channel and code will hear a steady tone for 8 seconds followed by the voice transmission for 22 seconds.



**Warning:** The Emergency Alert feature should only be used in the event of an actual emergency. Cobra is not responsible if there is no response to the emergency alert from the receiving group.

### General Specifications

## Frequency Allocation and Compatibility

A = Channel No. for 22 Channel Models

B = Frequency in MHz

C = Power Output

A	B	C
1	462.5625	High
2	462.5875	High
3	462.6125	High
4	462.6375	High
5	462.6625	High
6	462.6875	High
7	462.7125	High
8	467.5625	Low
9	467.5875	Low
10	467.6125	Low
11	467.6375	Low
12	467.6625	Low

13	467.6875	Low
14	467.7125	Low
15	462.550	High
16	462.5750	High
17	462.6000	High
18	462.6250	High
19	462.6500	High
20	462.6750	High
21	462.7000	High
22	462.7250	High

## IMPORTANT NOTICE

**WARNING:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.



- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced

### **Safety Information for microTALK Radios**

Your wireless handheld portable transceiver contains a low power transmitter. When the talk button is pushed, it sends out radio frequency (RF) signals. The device is authorized to operate at a duty factor not to exceed 50%. In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for handheld wireless devices.

### **Important**

FCC RF Exposure Requirements: For body-worn operation, this radio has been tested and meets the FCC RF exposure guidelines when used with Cobra accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines. Use only the supplied antenna. Unauthorized antennas, modifications or attachments could damage the transmitter and may violate FCC regulations.

### **Normal Position:**

Hold the transmitter approximately two (2) inches from your face and speak in a normal voice, with the antenna pointed up and away.

### **FCC Part 15.21 Warning Statement**

**NOTE:** THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT. radio/TV technician for help.

### **IC RSS-GEN**

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

### **Radiation Exposure Statement:**

Under ISED regulations, this radio transmitter may only operate using the antenna that is affixed to the radio transmitter. Use only the supplied antenna. Unauthorized antennas, modifications, or attachments could damage the transmitter and may void the user's authority to operate the radio.

Any changes of modifications not expressly approved by the party responsible for compliance could void the user's ability to operate the equipment.

SAR tests are conducted using standard operating positions accepted by the FCC/ISED with the device transmitting at its highest certified power level in all tested frequency bands.

Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value.

This device has been tested and certified to not exceed the exposure limit established by the FCC/ISED. Tests for each device are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC/ISED.

For body worn operation, this device has been tested and meets the FCC/ISED RF exposure guidelines when used with an accessory designated for this product or when used with an accessory that contains no metal and

that positions the handset a minimum of 10mm from the body. Non-compliance with the above restrictions may result in a violation of RF exposure guidelines.

## **Warranty & Trademark Acknowledgment**

### **Limited One-Year Warranty**

Cobra warrants your product against all defects in materials and workmanship for a period of one (1) year from the date of original purchase.

Cobra, at our sole discretion, will repair or replace your product (with the same or comparable product) free of charge.

Cobra will not pay shipping charges that you incur for sending your product to us. Products received COD will be refused.

To make a warranty claim, we will require proof of purchase in the form of an invoice or receipt. No proof of purchase is required for factory direct purchases.

Warranty Exclusions: Warranty does not apply to your product under any of the following conditions: 1. The serial number has been removed or modified. 2. Your product has been subjected to misuse or damage (including water damage, physical abuse, and/or improper installation). 3. Your product has been modified in any way. 4. Your receipt or proof-of-purchase is from a non-authorized dealer or internet auction site including E-bay, U-bid, or other non-authorized resellers.

LIMITATION OF WARRANTY: EXCEPT AS EXPRESSLY PROVIDED HEREIN, YOU ARE ACQUIRING THE PRODUCT "AS IS" AND "WHERE IS", WITHOUT REPRESENTATION OR WARRANTY.

COBRA SPECIFICALLY DISCLAIMS ANY REPRESENTATION OR WARRANTY INCLUDING, BUT NOT LIMITED TO THOSE CONCERNING THE MERCHANTABILITY AND SUITABILITY OF THE PRODUCT FOR A PARTICULAR PURPOSE. COBRA SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INCIDENTAL DAMAGES INCLUDING, WITHOUT LIMITATION, DAMAGES ARISING OUT OF THE USE, MISUSE OR MOUNTING OF THE PRODUCT.

The above limitations or exclusions shall be limited to the extent they violate the laws of any particular state. Cobra is not responsible for products lost in shipment between the owner and our service center.

### **General Warranty Information**

Each product we manufacture is covered by our factory warranty. While each product may have unique components and policy, the general guideline below will apply to most Cobra products.

All Cobra products purchased factory-direct or from our Authorized Resellers will come with a full one to three (1-3) year warranty from the date of the original retail purchase (see policy statement above for full warranty details and exclusions).

Standard accessories packaged with each model will have a one-year factory warranty.

Accessory items have a one-year factory warranty.

Shipping to our facility is not covered in our warranty. Return shipping is included within the US.

This warranty is non-transferrable.

For the sake of clarity, 'repair or replace the Product or its defective part' does not include removal or installation work, costs or expenses which include but are not limited to labor costs or expenses.

Cobra will not be responsible for lost packages.

#### For Products Purchased Outside the U.S.A.

Please contact your authorized local reseller or agent for warranty information.

#### Trademark Acknowledgment

©2022 Cobra Electronics Corporation. Cobra and the snake design are proprietary trademarks of Cobra Electronics Corporation, USA. Other trademarks and trade names are those of their respective owners. Cobra Electronics Corporation™ is a trademark of Cobra Electronics Corporation, USA.



#### Documents / Resources



[Cobra PX650 Two-Way Radio Model](#) [pdf] Owner's Manual  
PX650 Two-Way Radio Model, PX650, Two-Way Radio Model, Radio Model, Model

#### References

- [Cobra Portable Power & Automotive Electronics | Cobra.com](#)
- [Cobra Product Help/Manuals](#)