



# Performa **400 SERIES**

## OWNERS MANUAL



# TWO WAY BUSINESS RADIO

## LAND MOBILE RADIO



## Safety Information

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

### **Warning: Important Safety Information**

1. Only accessories included in this package or specified by the manufacturer should be used with the radio. The USB-C charging input is compatible with most high quality USB Type C 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 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.
4. Do not plug the wall adaptor into the power outlet if the outlet is wet.
5. 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 and Chargers**

Read All Instructions:

- Do not incinerate the battery even if it is severely damaged or is completely worn out.
- Do not discard the battery in a fire. The battery pack can explode in a fire.
- Do not replace the 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 the 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. 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.
- Never alter the AC cord or plug provided with the unit. If the plug will not fit in the outlet, have the proper outlet installed by a qualified electrician. An improper installation can result in a risk of electric shock.

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 contains a Lithium Polymer Battery which is subject to certain transport restrictions. Inspect the product and product packaging prior to transport. Do not transport this product if the battery is damaged.

### **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.



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# Introduction

In this user's guide, you should find all the information you need to operate your Performa 400 Series 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. The contact information for Cobra will vary depending on the country in which you purchased and use 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, damaged, or internally exposed to water, disconnect from its power supply and immediately discontinue use.

## **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.



# Introduction

## PRODUCT FEATURES

This owner's guide describes operation for both the Performa 400 and Performa 450 radio models (Performa 450 shown).



### Radio LED Indicators

Standby Mode Blue	LED flashes every 5 seconds
Low Battery	Red LED flashes every 5 seconds
PTT engaged and radio is transmitting	Solid Red LED
Radio is receiving Transmission	Solid Green LED
Emergency Alert is engaged	LED Flashes Green & Red
VOX is enabled	Solid Blue LED
Scan LED	Green LED flashes every 1 second

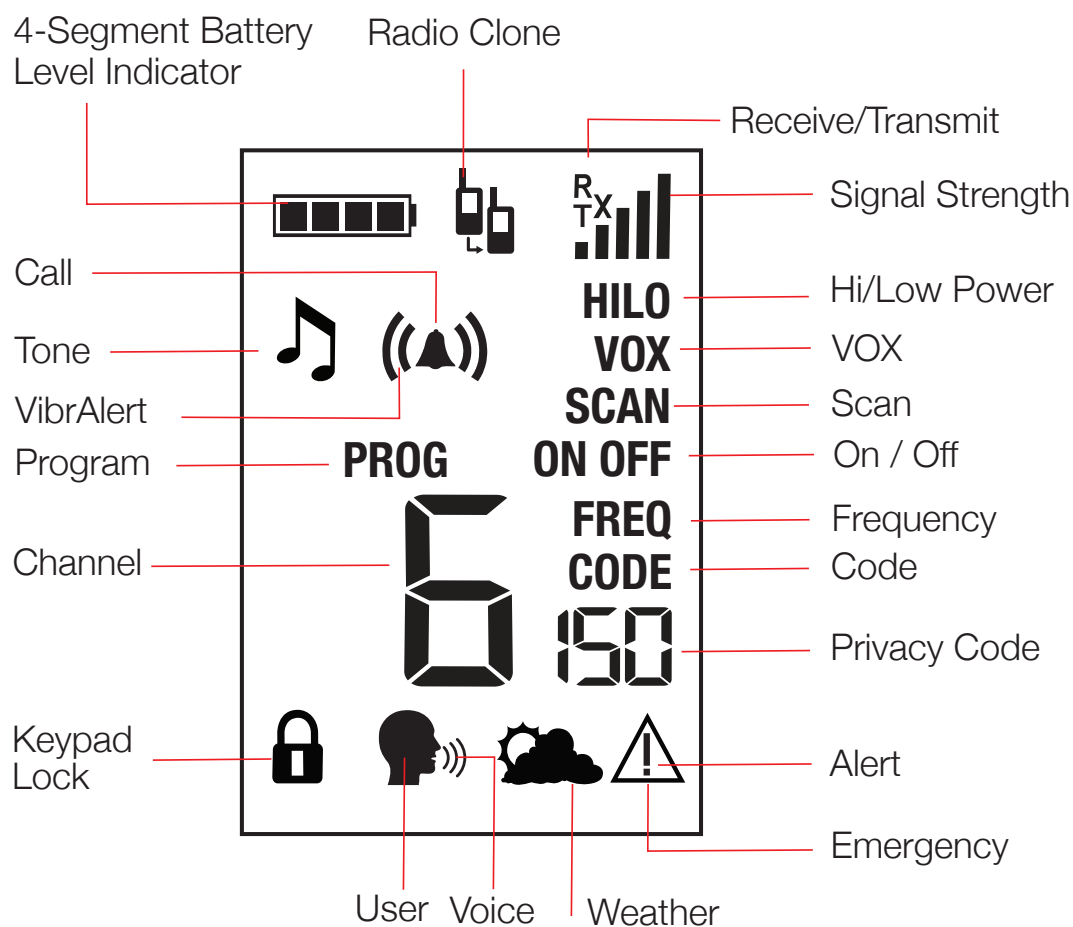
### Radio Buttons

Button	User Action	Radio Function
Up Arrow	Single Press Up Arrow	In standby, cycles through channels. In Menu, changes the options
Down Arrow	Single Press Down Arrow	In standby, cycles through channels. In Menu, changes the options
Enter	Single Press Enter	Cycles through Menu options
Escape	Single Press ESC	Escapes Menu
Scan	Hold Up arrow for 2 sec	Scans Frequencies
Monitor	Hold Down Arrow for 2 sec	Opens Squelch while pressed
Monitor Lock	Hold down Menu button for 5 sec	Locks Squelch function open
Menu	Hold Enter/Menu for 2 sec	Enters Standard Menu Flow
Lock	Hold ESC/Lock for 2 sec	Locks buttons on Radio, besides PTT and Knobs
Power / Volume	Rotate knob	Turns Radio on and increases volume
Channel Change	Rotate knob	Cycles Through Channels or Menu Settings



# Introduction

## LCD display (Performa 450 only)



4-segment Battery Level indicator	Indicates battery level
Call	Call tones
Tone	Keytone beep is enabled
VibrAlert	VibrAlert Function is enabled
Program	Radio is in advanced programming menu
Channel	Active Channel position
Keypad Lock	Keypad is locked
Radio Clone	Radio is in Clone mode
Receive / Transmit	Radio is receiving or transmitting a signal
Signal Strength	Strength of the transmission or received signal
Hi / Low Power	Radio transmit power level (high or low)
VOX	VOX is enabled
Scan	Indicates Radio is in scan mode and actively scanning channels
On / Off	Setting is enabled or disabled
Frequency	Frequency
Code	Privacy Code



# Installation

## Installing Battery

**Performa 400 Series comes preinstalled with a custom lithium-ion battery.**

### **To remove the battery:**

1. Remove Radio from the holster
2. Open latch on bottom back panel of radio
3. Slide battery pack out

### **To Replace the Battery:**

1. Slide battery pack into back of radio, ensuring tabs align
2. Snap in place latch on bottom back panel of radio

## Installing the Swivel Belt Holster

1. Slide the bottom of the radio into the holster until it snaps into place.

## Charging the Radio

Only use the supplied battery and desktop charger for charging your Cobra Performa radio. Please charge radio for 8 hours before first use. Cobra recommends your radio is turned off while being charged.

### **To Charge the Radio Via USB-C Cable**

1. Ensure battery is properly installed
2. Remove cover from USB-C port
3. Insert the USB-C cable
4. Plug the USB cable into the power adapter
5. Plug power adapter into an appropriate power port

### **Charge Via Dock Chargers (Single or 6-Unit)**

Radios can charge within the dock charger with or without the holster.

1. Ensure battery is properly installed
2. Insert radios into dock charger with radios facing the front
3. Insert batteries into the spare battery port
4. Insert the charging cable into the back of the dock
5. Plug power adapter into an appropriate power port

If charging light is not on, check position of radio or spare battery within dock.





# Operation

## LED Dock Indicators

Radio Charging	Solid Red
Charge Complete	Solid Green
Charging Error	Flashing Red

## Turning the Radio On and Off and adjusting Volume level

- To power ON turn Power Knob clockwise
- To power OFF turn Power Knob counter-clockwise
- Turn the power/volume knob clockwise to increase the volume.
- Turn the power/volume knob counter clockwise to decrease the volume.



## Battery Low

When battery power is low, Red LED will flash every 5 seconds indicating the radio needs to be charged. Battery level will also be shown on LCD battery level icon.

## Communicating with Another Radio

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



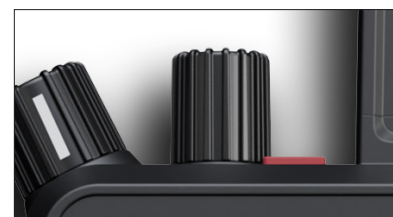
You cannot receive incoming calls while pressing the PTT button.

Both radios need to be programmed to the correct frequencies and privacy codes to communicate.

**Tip:** It is recommended to wait a short time after pressing the PTT before speaking to avoid cutting off the beginning of the message.

## Changing Channels

To change channel, turn the channel knob clockwise or counterclockwise or press up/down buttons until you reach your desired channel. To program alternate frequencies or privacy codes, use the advanced programming menu or the Cobra Computer Programming Software.



## Monitor

Your Performa radio has an automatic squelch function to automatically block weak transmissions and static, interference, or other unwanted noise.

You can turn on the Monitor function to turn off the automatic squelch, allowing all signals to be received. This is also an effective way to hear audio from the radio speaker in order to adjust the volume.





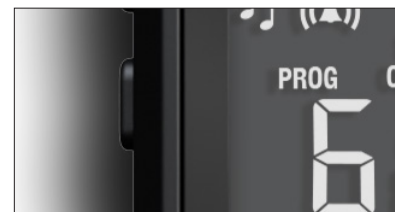


## Operation

- Press and hold the Monitor button for 2 seconds to turn the monitor on to open the squelch and allow all signals and noise to be received. Adjust the volume and listen for any weak signals. The monitor will turn off when the button is released.
- Press and hold the Monitor button for 5 seconds to continuously monitor a selected channel. The squelch will open allowing all signals and noise to be received. To turn off monitor and return to automatic squelch press and hold the Monitor button.

### Call button

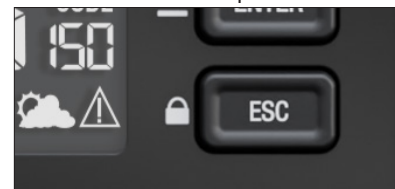
Press and release the Call button to alert others that you are calling. The other person will hear a two second call tone. This tone is only used to alert others of incoming voice communications.



### Voice Call Announcement

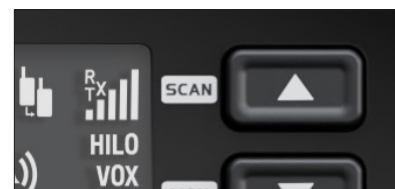
Press and hold the call button to send a voice announcement to your entire team, regardless of their active channel. All radios must have voice announcement turned on and set to the same frequency and privacy code. Setup using the advanced programming menu (see page 13).

1. Press and hold call button
2. Audible tone transmits to radios
3. Press PTT and transmit your announcement
4. Receiving radios will receive announcement and have 3 seconds after transmission to respond back on the same channel
5. After 3 seconds of inactivity, all radios will return to normal standby and normal channel



### Lock Function

The lock function will lock the up, down, menu, and call buttons. Press and hold the Lock button to enable. Lock icon will be displayed on the LCD when enabled. PTT and knobs and Emergency will still function when keypad is locked. Press and hold lock button to disable and return to normal operation.



### Channel Scan

To Scan channels press and hold the SCAN button until the Scan icon appears and the radio begins scanning channels.

The Scan icon will continue to be displayed when scan is on. Your radio will continue to scan all selected channels and stop if an incoming transmission is detected. Your radio will remain on that channel for 3 seconds after the last incoming transmission.

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

1. Press and hold the Talk button to communicate on that channel. Your radio will remain on that channel and return to Standby mode.
2. Press the Up or Down button to resume scanning channels.



## Operation

3. Press and hold the Scan button or press ESC button to return to Standby.

### Standard Menu

By scrolling through the Menu, you will be able to select or turn on preferred features of your Performa radio.

#### To Enter and Cycle through the Standard Menu:

1. Hold down ENTER (MENU) button to enter menu
2. Press ENTER or turn channel selector knob to cycle through Menu Options
3. Use UP / DOWN arrow to change Menu Option Setting
4. Press ENTER to save setting and move to next option
5. Press ESC or PTT to exit menu and revert back to Standby

**NOTE:** The radio has the ability to add or remove the Menu Options through the Cobra Computer Programming Software, User Controls. Please visit [Cobra.com](http://Cobra.com) for details on using and downloading the software to fully customize your radio.



#### The Menu Options, when enabled:

- Set Weather ON/OFF (Performa 450 only)
- Set Weather Alert ON/OFF (Performa 450 only)
- Set VOX ON/OFF
- Set VOX Sensitivity Level (1-5)
- Set Voice Prompts On/OFF
- Set Language 1-English, 2-Spanish, 3-French
- Set VibrAlert ON/OFF
- Set Call Tones 1-10
- Set Keytone Beep ON/OFF
- Set Backlight color 1-White, 2-Blue, 3-Red (Performa 450 only)
- Set Emergency Alert ON/OFF
- Set Roger beep ON/OFF

#### Weather Mode (Performa 450 only)

Your Performa radio has NOAA weather channels and a weather alert feature. The National Oceanic and Atmospheric Administration (NOAA) provides continuous around-the-clock broadcasts of the latest weather conditions. Recorded weather messages run every 4-6 minutes and are revised every 2-3 hours as needed.

To access weather channels, ensure weather is turned on via Cobra Computer Programming Software in the user controls section. Weather is off by default.

1. Turn weather ON in the Standard Menu.
2. Weather becomes an additional slot at the end of the channels.
3. Turn the channel knob to the position after your last programmed channel



## Operation

4. Weather will automatically scan for a weather channel within range.
5. To change Weather channels, press and hold SCAN to scan for an alternative weather channel in range.
6. To resume standard radio operation, rotate the channel knob to your desired channel

### Weather Alert (Performa 450 only)

#### NOAA Emergency Weather Alert

In the event of a major storm or other weather condition, NOAA broadcasts a 1050 Hz tone that your radio can detect and warn you of a weather alert condition. When the Weather Alert mode on your radio is set to On, this signal will produce a loud tone from the radio speaker and will automatically switch to the alerting weather channel so the alert broadcast can be heard.

To turn on Weather Alert, ensure Weather Alert is turned on via Cobra Computer Programming Software in the user controls section. Weather Alert is OFF by default.

Turning On the Weather Alert function will allow your radio to automatically receive NOAA weather warnings from designated weather broadcast stations. If the radio is turned ON, it will alert to Weather and other emergency alerts broadcast by NOAA.

#### To Turn Weather Alert On or Off:

1. Press the Menu button until the Weather Alert icon flashes on the display. The current On or Off setting is displayed.
2. Press the Up or Down button to turn Weather Alert On or Off.
3. Press the Menu button to enter the new setting and proceed to other functions.



### Voice Activated Transmit (VOX)

In VOX mode, your Performa 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 On or Off:

1. Press the and Menu button until the VOX icon flashes on the display and/or “VOX” voice prompt is announced. The current On or Off setting is displayed.
2. Press the Up or Down button to turn VOX On or Off.
3. Press the Menu button to enter the new setting and proceed to other functions.



#### To Set VOX Sensitivity:

1. Press and hold the Menu button for 3 seconds until the VOX icon flashes and the current sensitivity level is displayed and / or VOX level voice prompt is announced.
2. Press the Up or Down button to change the setting.
3. Press the Menu button to enter the new setting and proceed to other functions.





# Operation

## Voice Prompts

### To Turn Voice Prompts On or Off:

1. Press and hold the Menu button for 3 seconds until the Voice Prompts icon flashes and / or the Voice Prompt is announced. The current On or Off setting is displayed.
2. Press the Up or Down button to change the setting.
3. Press the Menu button to enter the new setting and proceed to other functions.

## Voice Prompt Language

Voice prompts will audibly guide you through the radio menus and settings, and can only be disabled on Performa 450.

### To change the voice prompt language:

1. Press the menu button until the Voice prompt icon flashes and the voice prompt language is announced.
2. Press the up or down button to change the setting.
3. Press the Menu button to enter the new setting and proceed to other functions.

## VibrAlert®

Your Performa radio can alert you to incoming signals by vibrating when a transmission is received.

### To Turn VibrAlert On or Off:

1. Press the Menu button until the VibrAlert icon flashes on the display and / or the VibrAlert Voice prompt is announced. The current On or Off setting is displayed.
2. Press the Up or Down button to turn VibrAlert On or Off.
3. Press the Menu button to enter the new setting and proceed to other functions.



## Call Alert

Press and hold Menu button to enter the menu and release the CALL button on the side of the radio to alert other that you are calling. The other person will hear a two second call tone. This tone is used only to establish voice communications.

## Ten Call Tone Settings

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

### To Change a Call Tone Setting:

1. Press the Menu button until the Call Alert Icon and the current call tone number (01 through 10) is displayed. The current call tone will sound for three seconds.
2. Press the Up or Down button to hear the other call tone settings.
3. Press the Menu button to enter the new setting and proceed to other functions.

## Keytone Beep

When keytone beep is on, an audible tone will sound each time a button is pressed.

### To Turn Keytone Beep On or Off:

1. Press the Menu button until the keytone beep icon flashes on the display and / or the keytone voice prompt is announced. The current On or Off setting is displayed.



## Operation

2. Press the Up or Down button to turn keytone beep On or Off.
3. Press the Menu button to enter the new setting and proceed to other functions.

### Backlight Color (Performa 450 only)

#### To Change Backlight Color:

1. Press the Menu button until the Backlight color voice prompt is heard. The current color will be displayed on the LCD.
2. Press the Up or Down button to switch between white, blue, red.
3. Press the Menu button to enter the new setting and proceed to other functions.

### Emergency Alert

The Emergency Alert feature can be used to signal members in your group of your need for urgent help. Performa series radios will operate in an automatic “hands-free” emergency control mode for a total of 30 seconds after activating the Emergency Alert. Performa 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 8 seconds alert, any spoken words or incidental sounds at your end will be transmitted to the group for 22 seconds. For the 30 seconds duration of Emergency Alert mode, Performa series radio controls and buttons will be locked to maximize reception of the emergency message.



1. Press and hold the red emergency alert button for 3 seconds.
2. Release the button after the LCD backlight flashes and the alert tone begins to sound. 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 LCD backlight will continue to flash for the duration of the 22 seconds period.
4. After 30 seconds your radio speaker will emit a Talk Confirmation Tone and the LCD backlight will stop flashing. The radio will continue to sound a periodic emergency tone from the speaker until emergency mode is exited. The radio remains in the Emergency mode until turned off by pressing and holding the emergency button or turning the radio off and on.

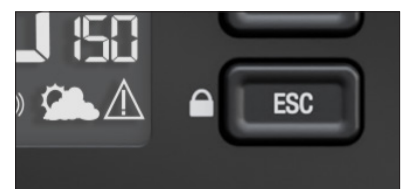
**NOTE:** All Performa series radios are fully compatible with the Emergency Alert feature. Radio brands other than Cobra Performa series can receive the emergency alert signal, but may not respond with adjusted volume settings, locked controls, or a warbling alert tone. Users of other radio models set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

### Roger Beep

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 Menu button until the roger beep icon flashes on the display and / or the roger beep voice prompt is announced. The current On or Off setting is displayed.





## Operation

2. Press the Up or Down button to turn roger beep On or Off.
3. Press the Menu button to enter the new setting and proceed to other



### Radio to Radio Clone

Performa radios have the ability to clone all set programmed frequencies and radio settings to another Performa radio. To perform a clone from a Primary (programmed) radio to Receiving radios:

1. Confirm Primary radio is already programmed to desired frequencies and settings, either via Radio programming software or the on radio settings.
2. Turn all radios off. For Over the Air cloning, skip to Step 4. For Cable Cloning, continue to Step 3.
3. Plug in USB-C cable to both Primary and Receiving Radios or dock chargers.
4. Press and hold the Call Button, turn power knob on while continuing to hold call button for 6 seconds until you hear “Clone Receive Ready”
5. Radio is now in Clone Mode, ready to receive Clone information. Clone Icon and the Blue LED will illuminate. Note that if performing a wired clone that the RX (Green LED) will also flash.
6. Repeat for the Primary and all Receiving radios.
7. For the Primary Radio, press PTT button to start initiate the clone process; Clone icon will illuminate and TX will flash.
8. Primary Radio will send information to all Receiving radios. Primary radio will flash RED LED. Receiving radios will flash green LED, to indicate Clone is in process.
9. Voice Prompts will confirm successful Clone of Receiving radios will confirm successful clone with a “Radio clone successful” voice prompt and will automatically restart.
10. Primary Radio will confirm with a “Transmission completed” voice prompt.





## Cloning using the 6-Unit dock charger

Performa radios have the additional capability to clone radios using the 6-unit dock charger.

1. Turn all radios off
2. Ensure the 6-dock is connected to power and no USB cables are plugged in.
3. Confirm Primary radio is already programmed to desired frequencies and settings, either via Radio Programming software or the on radio menu.
4. For all radios, Press and hold the Call button, turn power knob on while continuing to hold call button for 6 seconds, until you hear “Clone Receive Ready” voice prompt.
5. Place the Primary radio into dock station Slot 1, labeled on the top of the dock.
6. Place the receiving radios in slots 2-6
7. Press the Call button on the Primary radio in Slot 1 to initiate the clone. Clone icon will illuminate and TX will flash
8. Primary radio will send information to all receiving radios. Primary radio will flash RED LED. Receiving radios will flash green LED, to indicate clone is in process.
9. Receiving radios will confirm successful clone with a “Radio clone successful” voice prompt and will automatically restart.
10. Primary radio will confirm with a “transmission complete” voice prompt
11. Additional radios can be cloned by repeating steps 4-10.

Once all radios are cloned, restart the Primary radio in slot 1.

## Advanced Programming Menu

To enter the Advanced programming menu, hold down Menu and turn the power knob on and while continuing to hold Menu for 3 seconds. The PROG icon will illuminate and voice prompt “advanced menu” will indicate you are in the advanced programming menu.

### When Enabled, the Advanced Menu Flow Is:

- Programming Channels – Set the Frequencies and privacy codes for your channels.
- Microphone sensitivity – This allows adjustment to the sensitivity of the transmit microphone.
- Voice Call Announcements – Turn this setting on or off for the ability to receive a voice announcement or to set the voice announcement frequency/privacy code.
- Voice call announcement transmit-enables the radio to transmit a voice announcement.
- Clone – enter clone mode without using the quick key.

**NOTE:** Channel knob will allow a user to cycle through the 3 main Programming menu options.





## Programming Channels

Press MENU or rotate the channel selector knob to cycle through the Channel options. Use the up/down arrow to cycle through the Option settings.

### Channel Options are:

1. Channel 1-6
2. Frequency 1-99
3. Privacy code 0-154
4. Power level – Hi or Low
5. Scan ON or OFF – adds the channel to the scan list

### Default Frequencies

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	464.5000	26	462.8375	51	467.8875	76	452.7625
2	464.5500	27	462.8625	52	467.9125	77	452.8625
3	467.7625	28	462.8875	53	469.4875	78	456.1875
4	467.8125	29	462.9125	54	469.5125	79	456.2375
5	467.8500	30	464.4875	55	469.5375	80	456.2875
6	467.8750	31	464.5125	56	469.5625	81	468.2125
7	467.9000	32	464.5375	57	462.1875	82	468.2625
8	467.9250	33	464.5625	58	462.4625	83	468.3125
9	461.0375	34	466.0375	59	462.4875	84	468.3625
10	461.0625	35	466.0625	60	462.5125	85	468.4125
11	461.0875	36	466.0875	61	467.1875	86	468.4625
12	461.1125	37	466.1125	62	467.4625	87	468.5125
13	461.1375	38	466.1375	63	467.4875	88	468.5625
14	461.1625	39	466.1625	64	467.5125	89	468.6125
15	461.1875	40	466.1875	65	451.1875	90	468.6625
16	461.2125	41	466.2125	66	451.2375	91	456.3375
17	461.2375	42	466.2375	67	451.2875	92	456.4375
18	461.2625	43	466.2625	68	451.3375	93	456.5375
19	461.2875	44	466.2875	69	451.4375	94	456.6375
20	461.3125	45	466.3125	70	451.5375	95	457.3125
21	461.3375	46	466.3375	71	451.6375	96	457.4125
22	461.3625	47	466.3625	72	452.3125	97	457.5125
23	462.7625	48	467.7875	73	452.5375	98	457.7625
24	462.7875	49	467.8375	74	452.4125	99	457.8625



# Operation

## Weather Channels

(Performa 450 only)

WX Radio Channel	Frequency	NOAA Weather Alert
Channel 1	162.550 MHz	Yes
Channel 2	162.400 MHz	Yes
Channel 3	162.475 MHz	Yes
Channel 4	162.425 MHz	Yes
Channel 5	162.450 MHz	Yes
Channel 6	162.500 MHz	Yes
Channel 7	162.525 MHz	Yes
Channel 8	161.650 MHz	No
Channel 9	161.775 MHz	No
Channel 10	163.275 MHz	Yes
Channel 11	161.750 MHz	No
Channel 12	162.000 MHz	No

## Weather Alert Tone

(Performa 450 only)

Alert Tone
1050 Hz

## Default Channels

Performa 400 has 2 channel locations, Performa 450 has 6 channel locations.

Radio Channel	Frequency MHz	Privacy Code Number	Scan ON/OFF
1	2 - 464.5000	1 - 67 Hz	ON
2	8 - 467.9250	1 - 67 Hz	ON
3 (Performa 450 Only)	5 - 467.8500	1 - 67 Hz	ON
4 (Performa 450 Only)	6 - 467.8750	1 - 67 Hz	ON
5 (Performa 450 Only)	2 - 464.5000	6 - 82.5 Hz	ON
6 (Performa 450 Only)	8 - 467.9250	6 - 82.5 Hz	ON



# Operation

## Privacy Codes

Cobra Code Number	Type	Tone / Octal Code
1	CTCSS	67
2	CTCSS	71.9
3	CTCSS	74.4
4	CTCSS	77
5	CTCSS	79.7
6	CTCSS	82.5
7	CTCSS	85.4
8	CTCSS	88.5
9	CTCSS	91.5
10	CTCSS	94.8
11	CTCSS	97.4
12	CTCSS	100
13	CTCSS	103.5
14	CTCSS	107.2
15	CTCSS	110.9
16	CTCSS	114.8
17	CTCSS	118.8
18	CTCSS	123
19	CTCSS	127.3
20	CTCSS	131.8
21	CTCSS	136.5
22	CTCSS	141.3
23	CTCSS	146.2
24	CTCSS	151.4
25	CTCSS	156.7
26	CTCSS	162.2
27	CTCSS	167.9
28	CTCSS	173.8
29	CTCSS	179.9
30	CTCSS	186.2
31	CTCSS	192.8
32	CTCSS	203.5
33	CTCSS	210.7
34	CTCSS	218.1
35	CTCSS	225.7
36	CTCSS	233.6
37	CTCSS	241.8
38	CTCSS	250.3
39	DCS	23
40	DCS	25
41	DCS	26
42	DCS	31
43	DCS	32
44	DCS	43
45	DCS	47
46	DCS	51
47	DCS	54
48	DCS	65
49	DCS	71
50	DCS	72
51	DCS	73
52	DCS	74
53	DCS	114

Cobra Code Number	Type	Tone / Octal Code
54	DCS	115
55	DCS	116
56	DCS	125
57	DCS	131
58	DCS	132
59	DCS	134
60	DCS	143
61	DCS	152
62	DCS	155
63	DCS	156
64	DCS	162
65	DCS	165
66	DCS	172
67	DCS	174
68	DCS	205
69	DCS	223
70	DCS	226
71	DCS	243
72	DCS	244
73	DCS	245
74	DCS	251
75	DCS	261
76	DCS	263
77	DCS	265
78	DCS	271
79	DCS	306
80	DCS	311
81	DCS	315
82	DCS	331
83	DCS	343
84	DCS	346
85	DCS	351
86	DCS	364
87	DCS	365
88	DCS	371
89	DCS	411
90	DCS	412
91	DCS	413
92	DCS	423
93	DCS	431
94	DCS	432
95	DCS	445
96	DCS	464
97	DCS	465
98	DCS	466
99	DCS	503
100	DCS	506
101	DCS	516
102	DCS	532

Cobra Code Number	Type	Tone / Octal Code
103	DCS	546
104	DCS	565
105	DCS	606
106	DCS	612
107	DCS	624
108	DCS	627
109	DCS	631
110	DCS	632
111	DCS	654
112	DCS	662
113	DCS	664
114	DCS	703
115	DCS	712
116	DCS	723
117	DCS	731
118	DCS	732
119	DCS	734
120	DCS	743
121	DCS	754
122	DCS	36
123	DCS	53
124	DCS	122
125	DCS	145
126	DCS	212
127	DCS	225
128	DCS	246
129	DCS	252
130	DCS	255
131	DCS	266
132	DCS	274
133	DCS	325
134	DCS	332
135	DCS	356
136	DCS	446
137	DCS	452
138	DCS	454
139	DCS	455
140	DCS	462
141	DCS	523
142	DCS	526
143	DCS	69.3
144	CTCSS	159.8
145	CTCSS	165.5
146	CTCSS	171.3
147	CTCSS	177.3
148	CTCSS	183.5
149	CTCSS	189.9
150	CTCSS	196.6
151	CTCSS	199.5
152	CTCSS	206.5
153	CTCSS	229.1
154	CTCSS	254.1



# Software, FCC and Safety Statement

## Cobra Radio Programming Software

Please visit [Cobra.com](http://Cobra.com) to download the software allowing the ability to fully customize your radio and save Profiles to be used on your radios. See additional help for frequencies, licensing, and computer programming help on [Cobra.com](http://Cobra.com).

## Transmit and Receive Procedure

Your two-way radio contains a transmitter and a receiver. To control your exposure and ensure compliance with the occupational/controlled environment exposure limits, always adhere to the following procedure:

- Transmit no more than 50% of the time.
- To transmit (talk), press the Push to Talk (PTT) button.
- To receive calls, release the PTT button.

Transmitting 50% of the time, or less, is important because the radio generates measurable RF energy exposure only when transmitting (in terms of measuring standards compliance).

## FCC Statement

**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 parts 15 and 90 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 radio/TV technician for help.

## Safety Information for Performa™ 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.

**Disposal of Electroic Equipment** This product may contain hazardous substances that could impact health and the environment if not disposed of properly.

The product should not be disposed of along with household waste. It should be handed over to an applicable collection point for the recycling of electrical equipment. By ensuring that this product is disposed of correctly you will help/prevent potential negative impact on the environment.

If you need more information on the collection, reuse and recycling systems, please contact your local civic office or the shop where it was originally purchased.



# Software, FCC and Safety Statement

## 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. DO NOT hold the antenna when the radio is “in use”. Holding the antenna affects the effective range.

## 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.

## 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 or 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.

## Licensing

Performa 400 Series radios operate on radio frequencies that are regulated by the Federal Communications Commission (FCC). In order to transmit on these frequencies, you are required to have a license issued by the FCC. Before filling out your application, you must decide which frequency(ies) you can operate on. For questions on determining your radio frequency, please call Cobra Customer Support at 800-543-1608 .

Changes or modifications not expressly approved by Cedar Electronics may void the user’s authority granted by the FCC to operate this radio and should not be made. Replacement of any transmitter component (crystal, semiconductor, etc.) not authorized by the FCC equipment authorization for this radio could violate FCC rules.

**NOTE:** Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited.



# Troubleshooting and FAQs

## **Power Cycling**

As a general troubleshooting step power cycle the radio (turn radio off and back on) to see if the issue persists.

## **Radio does not turn on**

Make sure that the battery(ies) is(are) correctly installed in the radio.

Is the battery charged? Replace the battery with a fully charged battery or charge the battery.

## **Radio does not charge**

For radios with a desktop charger ensure that the radio is fully seated in the charger

Check the charger and cable to ensure that they are fully connected. If possible try charging another device with the same charger and cable.

## **No Audio**

Check to make sure both the channel and the privacy code match on the transmitting radio and receiving radio(s). If one radio can receive a transmission but the other can not the most likely cause is a mismatch of a privacy code.

Check the volume level of the receiving radio(s).

If an accessory headset or speaker/mic is used ensure that it is fully connected into the radio jack.



## Limited 2-Year Warranty and Trademark Information

### Warranty Terms:

Cobra warrants your product against all defects in materials and workmanship for a period of two (2) years 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 two (2) 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.

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