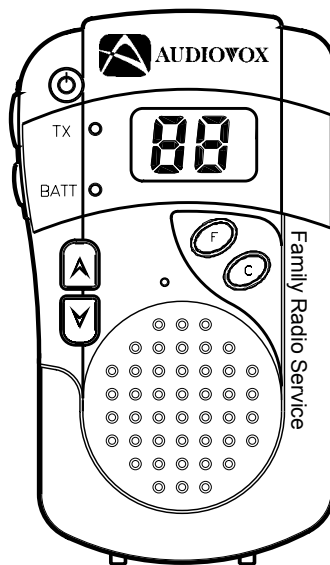




**Owner's Manual
Model FR-230
Two Way Family Radio**



**Customer Service
1-800-645-4994**

Rev NC Released on 4-21-99.
Rev A 4/22/99 Changed Phone # to 1-800-645-4994
Rev B 4/27/99 1st production-Changed bat save time to 5 sec
Rev C 5/11/99 2nd production-Added audio button conformation tones, monitor lock, corrected LCD to LED, added Family radio service to dwgs, changed turn on from instant to 2 sec button press. Added low bat on call, up, down and powersave, corrected callout 9,10 on p6.
Rev D 5/27/99 3rd production-removed batt low indicator from all functions except low batt condition, added dim verticle bar flash on pwr save, beep tones on function button press.

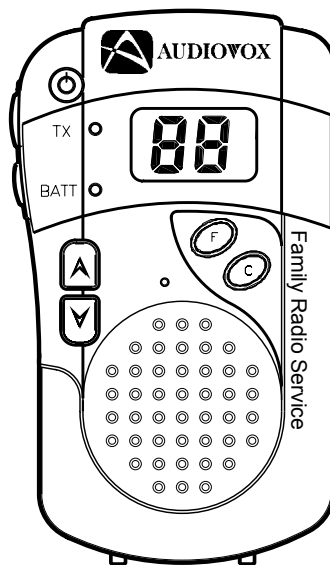
**CONGRATULATIONS ON YOUR SELECTION
OF THE FR-230 (FAMILY RADIO)**

It is one of the most sophisticated and reliable two way
family radios available.

**BEFORE OPERATING YOUR FR-230 (FAMILY RADIO)
READ THIS MANUAL CAREFULLY**

■ FEATURES

Your FR-230 Family Radio is a portable, easy to use, two-way radio that you can carry almost anywhere. It is skillfully constructed to give you reliable communications for many different applications. The FR-230 is ideal for use around the house, in your boat, on hunting and camping trips, on the ski slopes or at the mall.



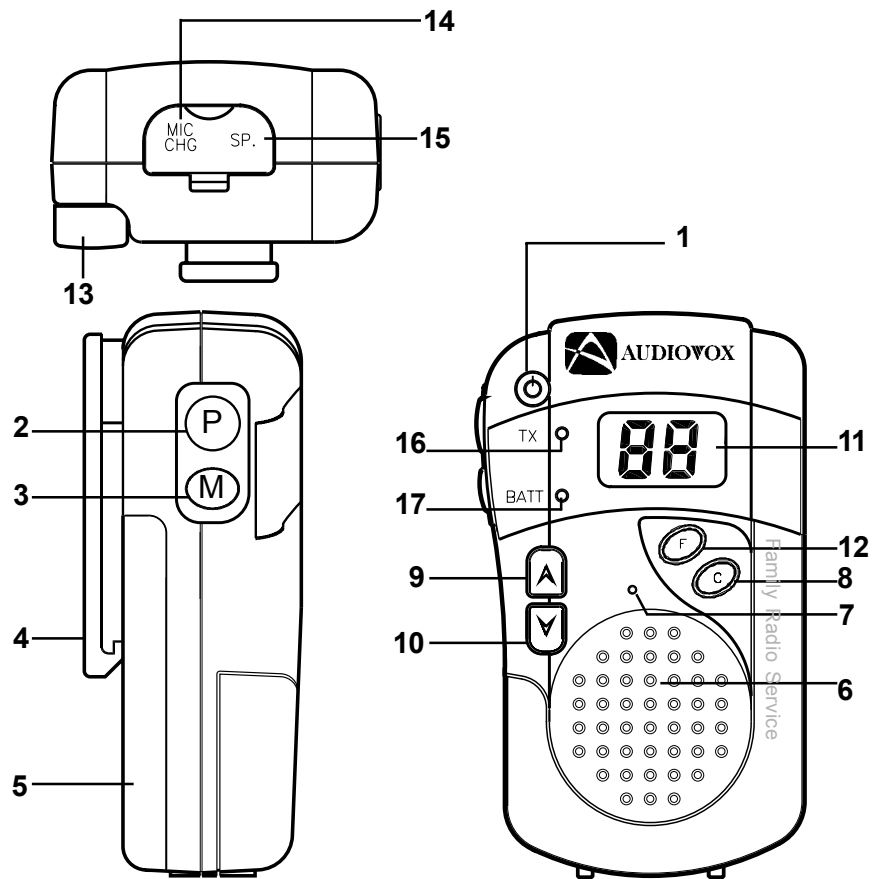
■ PERFORMANCE

Your transceiver will achieve its maximum operating range when communicating with other transceiver(s) in a flat open area with no trees or buildings obstructing its signal. Range may be up to two miles under such conditions. Obstacles such as buildings, trees or mountains will tend to reduce the transceiver's effective range.

FCC WARNING

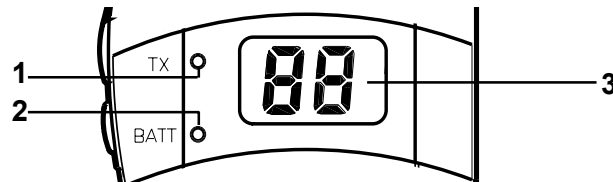
Replacement or substitution of transistors, diodes or other parts of a unique nature, with parts other than those recommended by the manufacturer, may cause a violation of the technical regulations of Part 15 of FCC Rules.

FUNCTION AND LOCATION OF THE CONTROLS



1. **Power Button:** Press and hold this button for 2 seconds to turn the transceiver on or off.
2. **Push-to-Talk Button:** Press to transmit. Release to receive.
3. **Monitor Button:** Press and hold to bypass the squelch and listen to channel activity.
4. **Belt Clip**
5. **Battery Compartment**
6. **Speaker**
7. **Microphone**
8. **Call Button:** Press and hold this button to send a ringing sound to other radios tuned to the same channel.
9. **Up Button:** Press this button to increase the volume or channel setting.
10. **Down Button:** Press this button to decrease the volume or channel setting.
11. **LED Display:** Displays the current FRS channel number.
12. **Function Select Button:** Press this button to change the channel setting
13. **Antenna:** Rotate counterclockwise when transceiver is in use
14. **Microphone / Charger Jack:** For use with an external microphone / PTT button and optional battery charger.
15. **Speaker Jack:** For use with an Audiovox approved headset accessory only.
16. **Transmit Indicator:** Illuminates while transmitting
17. **Low Battery Indicator:** Illuminates when the battery level is low.

■ LED DISPLAY AND OPERATION

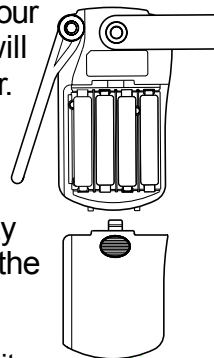


The FR-230 is equipped with an LED display to indicate its settings and functions. Pressing the P (Push-to-Talk), monitor, function select or call buttons, will illuminate the display. The display will remain lit for 5 seconds after any of these buttons is pressed.

- 1 ○ Illuminates red when transmitting
- 2 ○ Illuminates green when the battery power is low.
- 3 **88** Displays the current channel number (1 to 14).

■ BATTERY INSTALLATION

Your FR-230 requires four “AAA” alkaline cells or four rechargeable “AAA” cells. Alkaline batteries will provide the best performance from your transceiver. Remove the battery cover by rotating the belt clip away from the battery compartment. Slide the battery cover downward while applying pressure at the its grooved section. Observe the polarity symbols inside the battery tray when installing the batteries.



CAUTION:

- Incorrect battery installation can damage the unit.
- The microphone / charger jack is intended for use with Audiovox approved charging accessories only. Refer to the documentation included with the battery charger.
- Never attempt to charge alkaline batteries with the optional battery charger.

■ BATTERY SAVER MODE

Your FR-230 has a unique circuit designed to dramatically extend the life of its batteries. After five seconds of inactivity, the FR-230 will switch to battery saver mode. While in battery saver mode, the transceiver will remain ready to receive any incoming transmissions. A vertical bar on the display will flash dimly while the battery saver mode is active. Pressing any of the buttons, except the up or down buttons will exit the battery saver mode and illuminate the display.

■ USING YOUR FR-230

Turning the Transceiver on

Pressing the power button for 2 seconds will activate the unit. The speaker will play a conformation beep tone to confirm the transceiver's activation. To turn the unit off, simply press and hold the power button for 2 seconds. The unit will confirm its shutdown with another beep tone.

Button Conformation Tones

Whenever, the up, down or function select buttons are pressed, the speaker will play a tone to confirm each press. When adjusting the volume or channel number, the tone will correspond to the current setting, the lower the tone, the lower the setting. A unique tone will indicate that the limit of adjustment has been reached.

Low Battery Alert

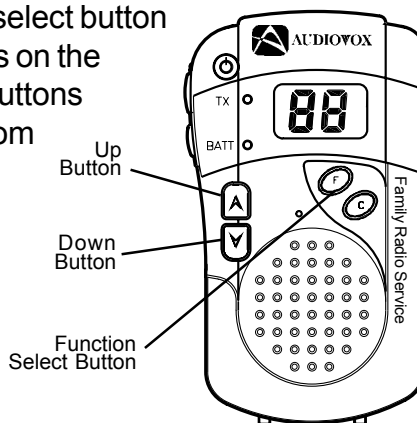
When the batteries are in need of replacement or charging, the low battery indicator LED will flash once every ½ second and the transceiver will sound a double beep to alert the user.

Function Select Button

Pressing this button will allow selection of the channel number. This will be indicated by the slow flashing of the channel number display and will be confirmed with a beep tone. If no buttons are pressed for 5 seconds, the unit will return to standby mode and the channel display will turn off. Pressing the function select button again or pressing the P (Push To Talk) or monitor buttons will also return to the standby mode. A beep tone will indicate that the unit has returned to standby mode

To Select a Channel

Press and release the function select button until the channel number flashes on the display. Use the up and down buttons to select the desired channel from 1 to 14. A unique tone will be played to confirm each channel selected and the current channel setting will be shown on the display. When the highest or lowest channel is reached, the channel setting will wrap to the opposite limit of adjustment.



Holding the up or down buttons will rapidly advance through the channels.

Call Signals

When the call button is pressed, the FR-230 will transmit a three-second ringing sound to other transceiver's tuned to the same channel. This feature can be used to signal other parties that voice communication is desired.

To Transmit

1. Set the desired channel.
2. Press and hold the P (Push-to-Talk) button while speaking slowly and clearly in a normal voice, approximately 2 to 3 inches from the microphone.
3. The transmit indicator will illuminate while transmitting.
4. Release the P (Push-to-Talk) button when you finish speaking to receive incoming signals.

To Receive.

1. Set the desired channel.
2. Adjust the volume control to the desired listening volume by using the up and down buttons while listening to the button conformation tones
3. The transceiver will play strong signals through its internal speaker or through a headset if so equipped.

Monitor Function

The monitor button can be used to play all signals present on a channel. This is useful when communicating with other parties at extreme range.

The monitor function can be locked on by pressing its button for three seconds. When the monitor lock has been activated, the LED display will flash and a conformation tone will be heard. Pressing the monitor button a second time will unlock the monitor function.

■ WARNING

Remove the batteries from the transceiver if it is not expected to be used for long periods. This will eliminate the possibility of battery acid leaking from the batteries and corroding the transceiver.

Avoid exposing the unit to water or extremes of temperature.

Do not use this device in or near a mining facility, which uses remotely triggered explosives or in areas labeled "Blasting Area". Premature or accidental detonation may result.

Do not attempt to modify or in any way increase the output of this transceiver. Its output is designed to meet the legal limits set by the FCC.

Do not use this device or change its batteries in potentially explosive atmospheres as sparks in such areas could result in an explosion.

Turn your transceiver off wherever posted notices restrict the use of radios or cellular telephones. Facilities such as hospitals may use equipment that is sensitive to RF energy.

Turn your transceiver off on-board aircraft when requested to do so.

Do not place your transceiver in front of a vehicle's air-bag. If the air-bag deploys, it could propel the transceiver like a projectile.

This transceiver complies with F.C.C. regulations for use in the United States. Use in other countries may be prohibited or restricted by local regulation. Please check with the local regulating agency before using this device outside of the United States.

■ SPECIFICATIONS*

Channels: 14
Output Power: 500 mW ERP
Battery Life
 Alkaline: 30 - 35 Hours
Power Source: 6.0V DC

* These specifications are subject to change without notice.
They represent typical values, individual units may vary.

Channel Frequencies:

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

90 DAY LIMITED WARRANTY

Applies to Audiovox Family Radio Service Products.

AUDIOVOX CORPORATION (the Company) warrants to the original retail purchaser of this product that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within 90 days from the date of original purchase, such defect(s) will be repaired or replaced with new or reconditioned product (at the Company's option) without charge for parts and repair labor.

To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), transportation prepaid, to the warranty center at the address shown below.

The Company disclaims liability for communications range of this product.

This Warranty does not apply to any product or part thereof which, in the opinion of the Company, has suffered or been damaged through alteration, improper installation, mishandling, misuse, neglect, accident, or by removal or defacement of the factory serial number/bar code label(s). THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 30 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

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