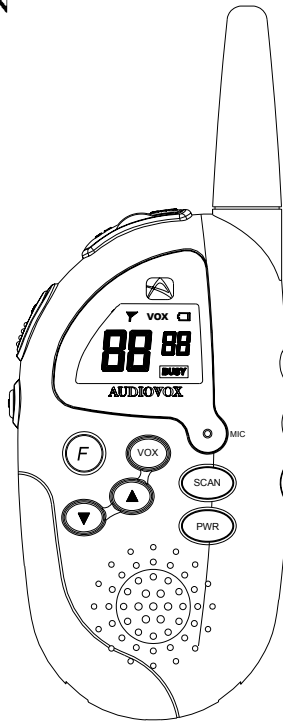




# Owner's Manual

## Model FR-531-2

### Two Way Family Radio



Customer Service  
1-800-290-6650

Released on 12-18-01  
Revision A: 8-13-02--Functional operation changed to reflect  
new manufacturer's specifications.

**128-6255A**  
**1 of 16**

**CONGRATULATIONS ON YOUR SELECTION  
OF THE FR-531-2 (FAMILY RADIO)**

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

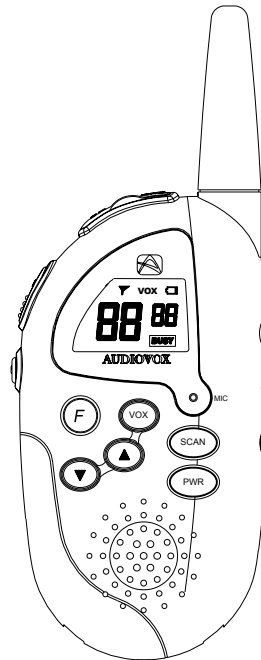
**BEFORE OPERATING YOUR FR-531-2 (FAMILY RADIO)  
READ THIS MANUAL CAREFULLY**

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## ■ FEATURES

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Your FR-531-2 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-531-2 is ideal for use around the house, in your boat, on hunting and camping trips, on the ski slopes or at the mall.



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## ■ PERFORMANCE

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Your transceiver will achieve its maximum operating range when communicating with other transceivers 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.

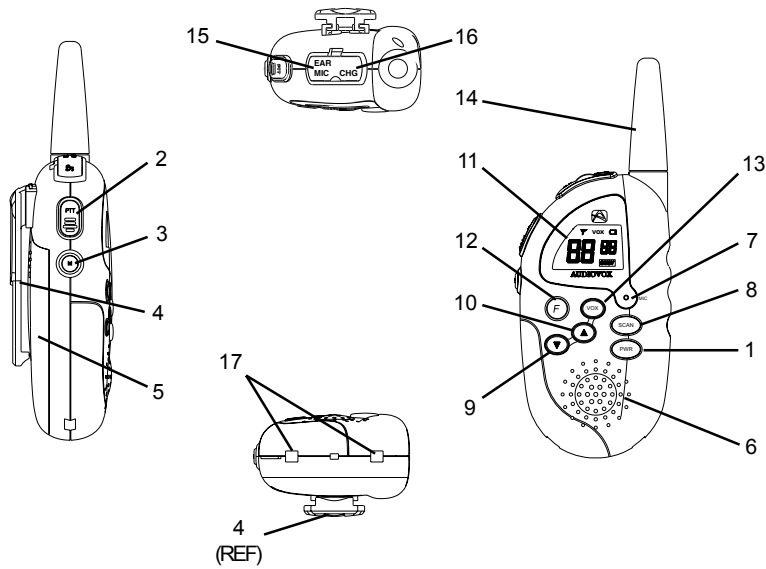
### **SAFETY INFORMATION**

Your wireless hand-held portable transceiver contains a low power transmitter. When the PTT 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 hand-held wireless devices.

**Important:** To maintain compliance with the FCC's RF exposure guidelines hold the transmitter at least 1 inch (2.5 centimeters) from your face and speak in a normal voice, with the antenna pointed up and away. If you wear the handset on your body while using the headset accessory, use only the Audiovox supplied belt clip for this product and ensure that the antenna is at least 1 inch (2.5 centimeters) from your body when transmitting. 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 1" from your face and speak in a normal voice, with the antenna pointed up and away.

## FUNCTION AND LOCATION OF THE CONTROLS

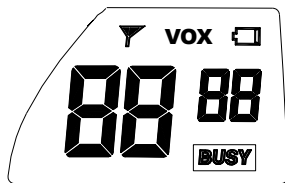


1. **Power Button:** Press and hold this button for 2 seconds to turn the transceiver on or off.
2. **Push-to-Talk Button (PTT):** Press to transmit. Release to receive.
3. **Monitor Button:** Press and hold to bypass the squelch and listen to channel activity; a momentary press activates LCD backlighting for 5 seconds.
4. **Carry Clip**
5. **Battery Compartment**
6. **Speaker**
7. **Microphone**
8. **SCAN Button:** Press this button to initiate an automatic scan of FRS channels 1-14.
9. **Down Button:** Press this button to decrease the volume or channel setting.
10. **Up Button:** Press this button to increase the volume or channel setting.
11. **LCD Display:** Displays the current FRS channel number as well as other functions.
12. **Function Select Button:** Press this button to select and toggle through all unit functions.
13. **VOX Button:** Press this button to activate the Voice-Operated Transmission function.
14. **Fixed Antenna**
15. **Ear/Microphone (EAR/MIC) Jack:** For use with an optional Audiovox approved Ear/Microphone set which facilitates hands-free VOX operation.
16. **Charger (CHG) Jack:** Not Used.
17. **Charging Contacts:** Not Used.






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## ■ LCD DISPLAY AND OPERATION

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The FR-531-2 is equipped with an LCD display to indicate its settings and functions.

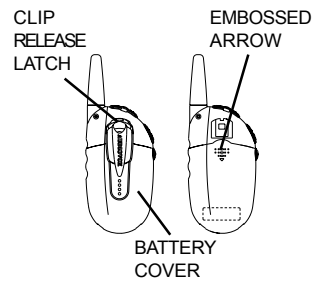
	Transmission Indicator
	Low Battery Alert
	FRS Channel Indicator (1–14). <b>88</b> Appears each time power is turned on during a power-on self-test of the unit.
	<b>88</b> appears each time power is turned on during a power-on self-test of the unit to check integrity of LCD.
	Key Lock Indicator. Appears for 2 seconds when Function (F) button is pressed and held to disable unit key functions (except PTT).
<b>BUSY</b>	Busy Channel Indicator. Displays when Monitor button is pressed.
<b>VOX</b>	VOX Function Indicator

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## ■ BATTERY INSTALLATION

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Your FR-531-2 requires four AAA alkaline cells. Alkaline batteries will provide the best performance from your transceiver. Remove the battery cover by rotating the carry clip away from the battery compartment. Slide the battery cover downward while applying pressure at the embossed arrow. Observe the polarity symbols inside the battery tray when installing the batteries.



### CAUTION:

- Incorrect battery installation can damage the unit.
- The EAR MIC jack is intended for use with Audiovox approved ear microphone/headset, while the CHG jack is not used.



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## ■ USING YOUR FR-531-2

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### **Turning the Transceiver On and Off**

Pressing the power button (1) for 2 seconds will activate the unit. The speaker will sound a beep tone to confirm the transceiver's activation. In addition, the transceiver will perform a 1-second power-on self-test, whereby the LCD display will show all functional items, including a test of the 2-digit channel display ( **88** ). To turn the unit off, simply press and hold the power button for 2 seconds. The unit will confirm its shutdown with a single beep tone.

### **Volume Level**

Audio reception volume is controlled by the Up (▲10) and the Down (▼9) button. Momentarily pressing either button will raise or lower the volume level.

### **Low Battery Alert**

When the batteries are in need of replacement or charging, the low battery icon (  ) will appear on the LCD display and the transceiver will sound a 1-minute beep to alert the user. If unattended, the unit will eventually turn off.

### **Monitor Button**

You can monitor channel activity by pressing the Monitor (M) button (3). If pressed for more than 2 seconds, you can continuously monitor channel activity. Press again, momentarily, and monitoring is disabled. Pressing this button momentarily will cause the unit to beep and the LCD backlight function will be activated for 5 seconds.

### **Function (F) Select Button (12)**

Pressing this button will allow selection of frequency channels as well as selection of the various unit functions. Each press permits selection of the desired channel (1–14) and Roger Beep tone.

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## ■ FUNCTIONS

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### Channel Selection

Press the function button once or until the two digit channel display flashes. Press Up or Down buttons (10, 9) to select desired channel (**1–14**). Press the PTT button to confirm and fix channel selection.

### Roger Beep Tone

The Roger Beep is a beep tone sequence which is automatically transmitted whenever the PTT button is released. This alerts the receiving party that your transmission has been ended intentionally, provided that unit has an enabled Roger Beep function also. To enable the Roger Beep tone:

- Press the F button twice until the **rb** icon flashes and **On** or **oF** appears on the display.
- Then press the Up or Down button to set the function **On**.
- To disable the Roger Beep tone, proceed as before, except press the Up or Down button to set the function **oF**.
- Press the PTT button to confirm the **On** or **oF** condition.

### Beep Confirmation Tones

Whenever any of the function select buttons are pressed, the speaker will automatically sound a beep tone to confirm each press.

### VOX Function

This feature enables you to have hands-free conversation. When using the internal microphone/speaker or external microphone/headset (**purchased separately**), your voice or the signal is detected and the radio transmits and receives automatically.

To access the VOX function:

- Press the VOX button; the VOX icon appears on the display.  
**NOTE:** In the VOX mode, the sensitivity is automatically set.
- To exit the VOX mode, press the VOX button again; the VOX icon will disappear from the display.

### **Channel Scanning**

Pressing the SCAN button initiates and automatic scan of the FRS channels (1-14) in the upward or downward direction.

- Press the SCAN button; channel scan will commence.
- To scan in the upward direction, press the Up Channel/Volume button; to scan in the downward direction, press the Down Channel/Volume button. The channels will be scanned in the selected direction for channel activity and then repeat. If an active channel is encountered, scan will pause on the active channel for 5 seconds, and then proceed to the next channel.
- If the PTT button is pressed during scan, scanning will stop, and a transmission will be sent on the primary channel whose number will flash for 15 seconds after the PTT button is released. Then scanning will continue.
- To terminate the scan function, press the SCAN button again.

### **CALL Function**


When the PTT button is pressed twice, the unit will transmit a 3-second ringing sound to other transceivers tuned to the same channel. This feature can be used to signal other parties that voice communication is desired.

### **Keylock Function**

To enable the Keylock function, press the Function (F) button for more than 2 seconds; **LK** appears on the display for about 2 seconds. When this feature is active, all buttons are disabled except the PTT, Monitor (M) and PWR buttons. If any locked button is pressed in this mode, the **LK** icon will momentarily appear on the display to remind the user that Keylock is still in effect.

To disable the Keylock function, press the Function (F) button for more than 2 seconds; the unit will beep and all buttons will become active. In addition, if the unit is turned off while in the lock mode, Key Lock will still be active when the unit is again turned on.

#### **To Transmit**

1. Set the desired primary channel.
2. Press and hold the PTT (Push-to-Talk) button while speaking slowly and clearly in a normal voice, approximately 2 to 3 inches from the microphone.
3. The transmit icon (  ) will illuminate while transmitting.
4. Release the PTT (Push-to-Talk) button when you finish speaking to receive incoming signals. If enabled a "Roger Beep" tone will be heard on the receiving unit to indicate end of transmission.

#### **To Receive.**

1. Set the desired channel.
2. Adjust the volume control to the desired listening volume by using the up and down buttons.
3. The transceiver will play strong received 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 the Monitor button for more than 2 seconds. When the monitor lock has been activated, the LCD display will indicate **BUSY**. Pressing the monitor button a second time will unlock the monitor function.

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## **WARNING**

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- 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.

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**■ SPECIFICATIONS\***

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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:**

<b>Channel</b>	<b>MHz</b>	<b>Channel</b>	<b>MHz</b>
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.

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