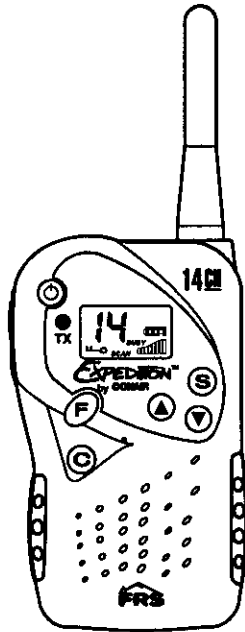


**EXPEDITION™**  
by CONAIR

# FRS200/FRS214

UHF FM TRANSCEIVER (Family Radio Service)



FRS200/FRS214

Printed in China

## IMPORTANT SERVICE INFORMATION

Read this manual before attempting to set up or use this instrument. It contains important information regarding safe installation and use. Keep this manual for future reference. Also save the carton, packing and proof of purchase to simplify and accelerate any needed action.

## SAVE THESE INSTRUCTIONS

# FRS200/FRS214

## CARTON CONTENTS

- FRS200-Two (2) Two-Way Radios / FRS214-One (1) Two-Way Radio
- User-Removable Belt Clips\*
- User's Manual

\* Attached to the units at the time of packing

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## FCC NOTICE

The FCC requires that you be advised of certain requirements involving the use of this device. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This device uses and can generate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that the 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 unit off and on), the user is encouraged 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 to 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.

**FCC INFORMATION:** 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. Privacy of communications may not be ensured when using this equipment.

**FCC WARNING:** This equipment generates or uses radio frequency energy. Changes or modifications not expressly approved in writing may cause harmful interference and void the user's authority to operate this equipment.

**SAFETY INFORMATION:** Your wireless hand-held portable transceiver contains a low power transmitter. When the PUSH TO TALK (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 Commission (FCC) adopted RF exposure guidelines with safety levels for hand-held wireless devices.

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## FRS PRODUCT DESCRIPTION

Family Radio Service (FRS) is the newest generation in personal two-way communications. FRS radios operate in a license-free radio band (no FCC license is needed for FRS operation), on any of the 14 license-free channels.

The FRS200/FRS214 is a lightweight, compact two-way radio that can be used up to about two miles with family or friends at parks, shopping malls, sporting events, concerts—any indoor or outdoor activity!

The FRS200/FRS214 is compatible with other two-way radios using the FRS frequency band (operating in the frequency range from 462.5625MHz to 462.7125MHz and from 467.5625MHz to 467.712MHz).

The FRS200/FRS214 is a 14-channel UHF two-way radio, featuring a multi-functional LCD panel (which indicates the current channel and various radio status icons). Other features also include electronic volume control and battery save circuitry.

Please read this user's manual thoroughly to get the most out of your FRS200/FRS214 two-way radio.

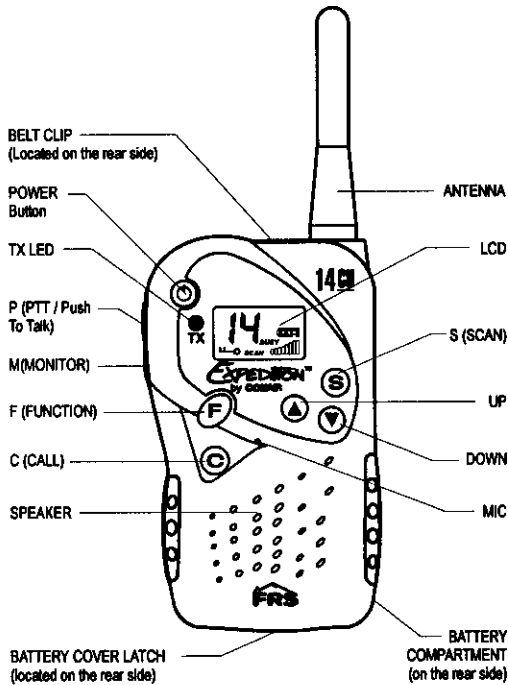
**CAUTION:** To maintain compliance with the FCC's RF exposure guidelines hold the transmitter and ANTENNA at least 1 inch (2.5 cm) from your face and speak in a normal voice, with the ANTENNA pointed up and away from the face. If you wear the handset on your body while using the headset accessory, use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

Use only the supplied ANTENNA. Unauthorized antennas, modifications, or attachments could damage the transmitter and may violate FCC regulations.

**NOTE:** The maximum transmission range will vary depending on terrain and environment. Range will be greater in open fields, while the range is shorter within and around buildings or large structures.

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# CONTROLS DIAGRAM



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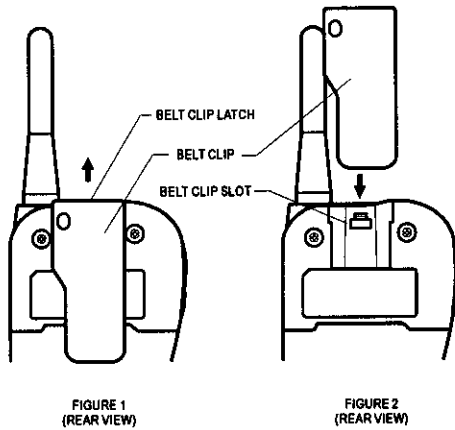
# DESCRIPTION

- Belt Clip** - For your convenience, a removable belt clip is included to secure the radio to a belt, pocket, or any other convenient location.
- Power Button** - Press and hold the power button to turn your unit ON/OFF.
- Transmit (TX) LED** - Illuminates in red when transmitting (TX).
- P (PTT/Push To Talk) Button / Switch** - Used for transmitting (making a call).
- M (Monitor) Button** - Lets you listen in on a channel for weak signals.
- F (Function) Button** - Allows you to change channels. Press and hold for 5 seconds to LOCK the buttons.
- C (Call) Button** - Send call tones for alert or identification purposes.
- Battery Cover Latch** - Secures the battery cover in place.
- Battery Compartment** - Houses four(4) "AAA" alkaline or NI-MH rechargeable batteries (batteries not included).
- Up (▲) and Down (▼) Buttons** - Used for adjusting the volume level and changing the channel.
- S (Scan) Button** - Used to activate/deactivate the channel scan.
- LCD (Liquid Crystal Display) Panel** - A multi-functional display which shows channels and other radio status/icons.
- Antenna** - This is a fixed antenna.

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## INSTALLATION

### Removing the Belt Clip



1. Pull the BELT CLIP LATCH away from the unit.
2. While pulling the BELT CLIP LATCH, push up on the BELT CLIP to remove it from the unit, as shown in Figure 1.

### Installing the Belt Clip

1. Slide the BELT CLIP into the BELT CLIP SLOT as shown in Figure 2.
2. A "click" indicates the BELT CLIP is locked into position.

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### Battery Installation

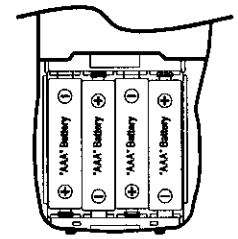
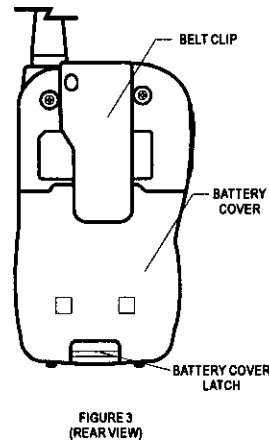


FIGURE 4  
(BATTERY COMPARTMENT WITH  
"AAA" RECHARGEABLE BATTERIES)

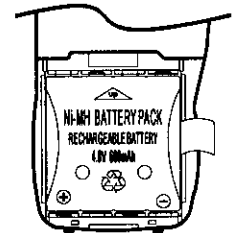


FIGURE 5  
(BATTERY COMPARTMENT WITH  
"AAA" RECHARGEABLE BATTERY PACK)

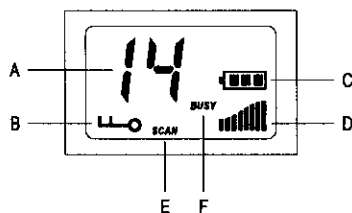
1. Release the BATTERY COVER LATCH located on the rear side of the unit. See Figure 3.
2. Remove the BATTERY COVER from the BATTERY COMPARTMENT.
3. Install four (4) "AAA" alkaline or NI-MH rechargeable batteries/battery pack (batteries/battery pack are not included) following the polarities as shown in Figure 4 and Figure 5.
4. Reinstall the BATTERY COVER and lock the BATTERY COVER LATCH into position.

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#### NOTES:

- The FRS200/FRS214 has a built-in power saver for maximum battery life. But when the FRS200/FRS214 is not being used, conserve battery power by pressing the power button to OFF.
- Remove the batteries if the unit will not be used for a long period of time.

## LCD PANEL DISPLAY



A. 14 - Channel Number. Changes from 1 to 14 as selected by user.
B.  - Press and hold the FUNCTION button for 5 seconds until the BUTTON LOCK symbol is displayed.
C.  - Displays the current BATTERY LEVEL charge.
D.  - Displays the current VOLUME LEVEL.
E. SCAN - Displayed during the CHANNEL SCAN mode.
F. BUSY - Displayed when receiving a signal.

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## OPERATION

### Turning the Unit ON

Press and hold the POWER button. The unit will "beep" and the LCD panel will display the current channel.

### Turning the Unit OFF

Press and hold the POWER button. The unit will "beep" and the LCD panel will turn blank.

### Adjusting the Speaker Volume

- Press the UP (▲) button to increase the Speaker Volume.
- Press the DOWN (▼) button to decrease the Speaker Volume.
- The Speaker Volume level is indicated by the number of bars displayed in the lower right corner of the LCD panel.

### Receiving a Call

The unit is continuously in the RECEIVE mode when the unit is ON and not transmitting. When you receive a signal on the current channel, the RX icon (**BUSY**) is displayed. (See "LCD PANEL DISPLAY" for details).

### Transmitting a Call

1. Check the channel activity by pressing and holding the MONITOR button. You'll hear static if the channel is unoccupied. Don't TRANSMIT if someone is talking on the current channel. Press and hold the PTT button to TRANSMIT. The TX LED indicator will light up in red. Hold the unit in a vertical position with the MICROPHONE 2 to 3 inches away from the mouth.
2. While holding the PTT button, speak into the unit using a normal tone of voice.
3. Release the PTT button when you have finished transmitting.

**NOTE:** In order for other people to receive your transmission, they must also be on the same channel you are currently using. Refer to the "Changing Channels" section for more information.

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### Changing Channels

The FRS200/FRS214 has 14 available channels. To change channels:

1. Press the FUNCTION button the channel number digit flashes on the LCD panel.
2. While the channel number is flashing:
  - Press the UP (▲) button to move to a higher channel.
  - Press the DOWN (▼) button to move to a lower channel.
  - The channel changes from 1 to 14, or from 14 to 1.
3. Press the FUNCTION button or PTT button to select the desired channel and return to normal mode.

**NOTE:** Refer to the "FRS Channel Table" section of this Owner's Manual for detailed frequency listings.

### Monitor

You can use the MONITOR feature to listen in for weak signals in the current channel.

- Press the MONITOR button for normal monitoring.
- Press and hold the MONITOR button until it "beeps" for continuous monitoring.

### Channel Scan

CHANNEL SCAN performs searches for active signals in an endless loop from 1 to 14.

1. Press and release the SCAN button to activate CHANNEL SCAN. The channel number on the LCD panel changes rapidly until an active signal is detected.
2. When an active signal (one of 14 channels) is detected, CHANNEL SCAN pauses keeping the active signal broadcasted.
3. Press the PTT button to communicate through the active signal channel and CHANNEL SCAN is deactivated.
4. When an active signal (one of 14 channels) is detected, but another channel is desired, press the SCAN button twice to bypass the current channel and continue to search for another active channel.
5. Press the SCAN button to deactivate CHANNEL SCAN mode.

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### Battery Level / Low Battery Indication

- The LCD panel displays the battery power level according to the number of squares lit inside the battery icon.
- When the battery level is low, the battery icon will flash to indicate that the batteries need to be replaced.

### Sending Call Tones

You can use Call Tones to alert the other user or to identify yourself. You can also use Call Tones to signal the beginning or the end of a transmission.

1. Press the CALL button, the red TX LED indicator will light up and the Call Tone continues for 2 seconds.
2. Release the CALL button. Your Call Tones will transmit to a nearby receivers set to the same channel.

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## SPECIFICATIONS

Channels Available	14 Channels
Output Power (TX)	37mW
Battery Life	30 Hours (typical)
Range	About 2 Miles

## FRS CHANNEL TABLE

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

**NOTE:** The maximum transmission range will vary depending on terrain and environment.

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## SERVICE

According to the FCC regulations, this equipment, which has been certified and registered by the FCC, may only be repaired by authorized persons. If repairs or adjustments are made by an unauthorized person, the FCC certification may be voided. Should you encounter any problems, please call the Conair Electronics toll-free Customer Help Line for assistance.

### FOR IN-WARRANTY SERVICE

Package your units (include all accessories) and ship the unit postage prepaid\* and insured (for your protection) to:

Conair Electronics, DEPT. Warranty Repair,  
7475 N. Glen Harbor Blvd., Glendale, AZ 85307

Be sure to include your return address, proof of purchase, a daytime phone number, \$5.00 for postage and handling\*, and a brief explanation of the difficulties.

\*NOTE: California residents need only provide proof of purchase and should call 1-800-366-0937 for shipping instructions.

### FOR OUT-OF-WARRANTY SERVICE

You may call the Customer Service Help Line for the price of a replacement before returning the unit. Please follow all instruction for In-Warranty service (above) to return your unit, and mark the package:

DEPT. Out Of Warranty

If you have called and know the cost of your replacement, please include this information with your return for prompt service.

### LIMITED ONE YEAR WARRANTY

Conair, at our option, will replace or exchange (for a model of equal value) your FRS200/FRS214 unit for one year from the date of purchase if the unit is defective in workmanship or materials.

To obtain service under this warranty, return the defective product to the service center together with your sales slip and \$5.00\* for postage and handling.

\*California residents need only provide proof of purchase and should call 1-800-366-0937 for shipping instructions.

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## TROUBLESHOOTING

SYMPTOM	SOLUTION
<b>No power.</b>	<ul style="list-style-type: none"> <li>• Check batteries. Ensure that the batteries are installed properly.</li> <li>• The batteries may be weak. Replace old batteries with four (4) new "AAA" alkaline or Ni-Cd rechargeable batteries.</li> </ul>
<b>Reception is weak.</b>	<ul style="list-style-type: none"> <li>• Press the UP (▲) button to increase VOLUME.</li> <li>• The receiving signal may be weak and/or out of range.</li> <li>• If this happens, press the MONITOR button.</li> </ul>
<b>Cannot change channels.</b>	<ul style="list-style-type: none"> <li>• To change channels, press the FUNCTION button until the channel number flashes on the LCD panel. Press the UP (▲) or DOWN (▼) buttons to change channels.</li> <li>• Batteries may be weak.</li> </ul>
<b>Range is limited.</b>	<ul style="list-style-type: none"> <li>• Batteries may be weak. Replace with new batteries if the BATTERY LEVEL indicator is low.</li> <li>• The maximum range will vary depending on terrain and environment. Open fields provide the maximum range, while steel/concrete structures, heavy foliage and use in buildings and in vehicles may limit the range significantly.</li> <li>• Wearing the radio close to the body, such as in a pocket or on a belt, will decrease range; change the location of the radio.</li> </ul>
<b>Sound distortion problems.</b>	<ul style="list-style-type: none"> <li>• If you are transmitting, speak in a normal tone of voice 2 to 3 inches away from the MICROPHONE.</li> <li>• If you are receiving, lower the VOLUME to a comfortable level.</li> <li>• Radios too close. Radios must be at least 5 feet apart; increase your distance.</li> <li>• Radios too far apart. Obstacles interfere with transmission. Talk range is up to 2 miles in clear unobstructed conditions.</li> </ul>

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ALL APPLICABLE IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANDISE AND FITNESS FOR A PARTICULAR PURPOSE GIVEN TO YOU BY LAW ARE HEREBY LIMITED IN DURATION OF THIS WARRANTY. UNDER NO CIRCUMSTANCES WILL CONAIR BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

## SERVICE CENTER

CONAIR ELECTRONICS  
7475 N. Glen Harbor Blvd.  
Glendale, AZ 85307

## CONAIR ELECTRONICS

Customer Service Help Line:

**1-800-366-0937**

8:30 a.m. - 9:00 p.m., Monday - Friday

8:30 a.m. - 12:30 p.m., Saturday

[www.conairphone.com](http://www.conairphone.com)

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