

TC-129B
(FOR COLUMBIA)

A0483

21 Aug 2001

There are no expressed warranties except as listed above. COLUMBIA TELECOMMUNICATIONS will not be liable for incidental or consequential damages resulting from the use of this product, or resulting from misuse contrary to this warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions and limitations may not apply to you. This warranty gives you specific and legal rights and you may also have other rights which vary from state to state.

Please use the shipping address below for the authorized Warranty Service Center:

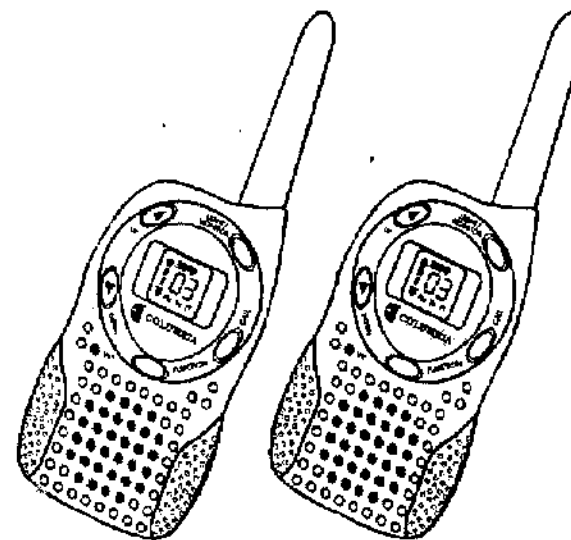
COLUMBIA TELECOMMUNICATIONS GROUP INC
174 Milbar Blvd.
Farmingdale, NY 11735

OPERATIONS MANUAL

FRS14K-2

14 Channel 2-Way Radios

Family Radio Service Frequencies



 **COLUMBIA**
TELECOMMUNICATIONS GROUP, INC.

Owners Manual
and Instructions

FCC warning statement

CAUTION:

- * To maintain compliance with the FCC's RF exposure guidelines, hold the transmitter and antenna at least 2 inches (5 cm) from your face, and speak in a normal voice. Point the antenna up and away from your face.
- * Use only the supplied antenna. Unauthorized antennas, modifications, or attachments may damage the transmitter and any changes or modifications not expressly approved by the party responsible for the compliance could void the user's authority to operate the device.

FCC Warnings

ADJUSTMENT: REPLACEMENT or substitution of transistors, regular diodes or other parts of a unique nature, with parts other than those recommended by Columbia, may cause a violation of the technical regulations of part 95 of the FCC Rules, or violation of Type Acceptance requirements of Part 2 of the Rules.

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.
- * Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following condition: this device must accept any interference received, including interference that may cause undesired operation.

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1 Introduction

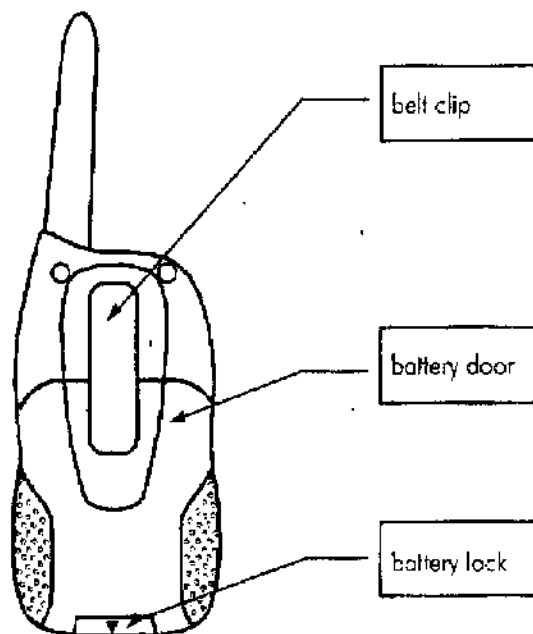
Family Radio Service (FRS) enables you to communicate with all other brands of FRS with no airtime fees and no license fee.

Family Radio Service (FRS) has 14 channels. You can talk with another person in your group who is set to the same channel.

2 Battery Installation

This handset operates with AA batteries. To install the batteries, see the instructions below:

- * Unclip the battery lock
- * Remove the battery cover.



- * Insert 3 AA batteries (make sure the battery polarities are aligned properly)
- * Insert the battery cover and clip the battery lock.
- * If the handset is not being used for a prolonged period, remove the batteries.

2.1 Battery Care And Precautions

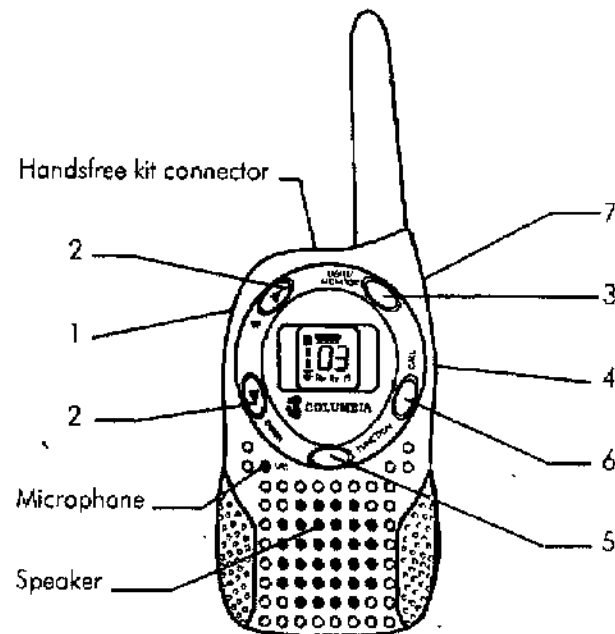
Please read and follow the note below to avoid fire hazards or personal injury:

- * Do not expose batteries to open flame or heat source. They could explode. Contact your local authority on disposal of batteries to ensure conformance with prevailing community regulations.
- * Do not throw batteries into dustbin. Contact your local authority on disposal of batteries to ensure conformance with community regulations.
- * Do not crush or take battery apart. Leakage of corrosive electrolyte may damage the eyes and the skin. Swallowing a battery is harmful.
- * Be sure that the poles of each battery are positioned properly in the unit. Inadvertent charging, leakage of corrosive electrolyte or explosion can occur if a battery is installed backwards.
- * Always use alkaline batteries for replacements. If you store your radio for long periods of time, always remove the batteries. Batteries may corrode and leak when left unused over long periods of time, and permanently damage your radio.
- * Do not mix old and new batteries.
- * Do not mix alkaline, standard (carbon-zinc) or rechargeable (Nickel-Cadmium) batteries.

2.2 Removing the belt clip

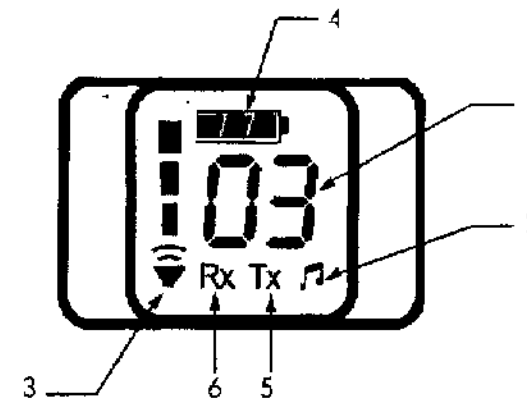
- * Pull tab (under clip) towards belt clip.
- * While pulling tab slide belt clip down.

3 Location of Controls



1	PTT	Press PTT key to talk.
2		Selection keys for frequency channel
3	MONITOR	Press and hold the key for 1 second to toggle the on/off of the monitor function
4		Volume control keys
5	FUNCTION	Press this key to enter function selection mode.
6	CALL	Press to call other parties
7		Power on/off key, press and hold it for 2 second to turn it on Press and hold it for few seconds again to turn it off

4 Display Panel



1. **88** : 2-digit channel number
2. : Talk confirmation tone
3. : Volume level indicator
4. : Battery level indicator
5. Tx : Transmitting
6. Rx : Receiving

5 Basic Functions

5.1 Power on/off

To turn on the handset, press the on/off key for 1 second. The unit will beep and enter into reception mode. To turn off the handset, press the on/off key until the LCD display is diminished.

5.2 Adjusting The Speaker Volume

Press the volume control up/down buttons to increase/decrease speaker volume.

Adjust the volume to a comfortable listening level.

5.3 Selecting Channel

Press ▲ or ▼ keys to select your desired 14 main channels.

5.4 Transmit/Receive

After selecting one of the 14 available operating channels, any received transmission on that channel will be audible.

To transmit on the channel currently shown in the display, press and hold the PTT button and speak into the radio. The transmit indicator (Tx) appears in the display when sending your message.

To receive messages, release the PTT button, the received indicator (Rx) appears in the display.

Note: Hold the handset a few inches from your mouth and speak in a normal voice to maximize clarity. Please also note that you cannot receive any transmission whilst the transmit indicator shows in the display

6 Call Button Function

Press the CALL key, the Transmit icon (Tx) appears. The handset of your other party will beep

7 Talk Confirmation Tone

This function allows you to alert other when you have finished speaking. They can answer you after the beep tone.

- Press FUNCTION key five times.
- The icon  flashes.
- Press the ▲ or ▼ to select this function, ▲ key to enable. ▼ key to disable.
- Press FUNCTION key again to confirm.

8 LCD Illumination

The display can be illuminated by the build-in LEDs. The screen will light for 10 seconds whenever the MONITOR key is pressed.

9 Low Battery Warning

When the battery icon shows nearly empty , replace all three batteries.

10 Care And Safety

To clean the radio, wipe with a soft cloth dampened with water. Don't use cleaners or solvents on the radio, they can harm the body and leak inside, causing permanent damage. Battery contacts may be wiped with a dry cloth. If the radio gets wet, turn it off and remove batteries immediately. Dry battery compartment with a soft cloth to minimize potential water damage. Leave cover off the battery compartment overnight or until completely dry. Do not use the radio until completely dry.

11 Talk Range

Your FRS unit has a range of up to 2 miles. This range can be decreased by certain atmospheric and environmental conditions at the time of your conversation.

Some conditions that affect range are :

- * Buildings
- * Dense trees or foliage
- * Hilly or mountainous terrain

The best range will be flat, open terrain, without obstructions.

12 Technical Specifications

Operating Frequency	462.5625-467.7125 MHz
Channels	14
Power Source	3 x 1.5 V AA Alkaline Battery

This product is marked with and in accordance with FCC requirements.

WARNING

Do not operate radio in hazardous environment, explosion or fire may result.

Do not operate radio near unshielded electrical blasting caps. Under certain conditions, radio can interfere with blasting operations and may cause an explosion. Turns your radio OFF to prevent accidental transmission when in a "blasting area" or in areas posted: "Turn off two way radio".

Construction crews often use remote control RF devices to set off explosives.

IMPORTANT

In the event of incident or accident, this product cannot be used for contacting emergency or rescue services.

Customer Support

Thank you for purchasing the Columbia FRS 2-way Radio. This a high-quality communications device that can give you many years of reliable service. Please read these instructions carefully.

Should you encounter any problems with the product or not understand its many features, please refer to this owner's manual. If after referring to the manual, you still need help, call Customer Service at 1-800-889-7434 between 9am and 5pm EST (Eastern Standard Time).

Service

For your own protection, retain your original sales receipt indicating the date and place where you purchased this product. We will not be able to service your FRS unit without a copy of this receipt.

Also, as previously suggested, retain all packing materials in case you should need to ship your unit for servicing. This product is covered by a ONE YEAR LIMITED WARRANTY.

COLUMBIA TELECOMMUNICATIONS Limited Warranty

COLUMBIA TELECOMMUNICATIONS warrants this unit to be free from defects in material and/or workmanship for a 1 year period beginning with the date of purchase.

This warranty does not cover second-hand ownership or products that are purchased for sale or lease to another. This warranty does not cover damage resulting from acts of God, lightning accident, misuse, improper installation or operation, or unauthorized repair or alteration.

If this unit should become defective within the first 30 days from purchase, return it to the retailer where obtained (with all of the original packing materials and parts) for an over-the-counter exchange. If this unit becomes defective after the first 30 days but within one year of purchase, we will replace it with a new or reconditioned unit of the same or similar style. The replacement unit will be warranted for a period of 90 days or the remainder of the original one year period, whichever is longer.

To obtain warranty service on your COLUMBIA TELECOMMUNICATIONS equipment, you must provide proof of date of purchase. We strongly recommend that you keep your sales receipt and all of the packing materials in order to take advantage of your products limited warranty. Include all accessories and owners manual when returning to an authorized service center (listed below.) Do not forget to include your name and return address (print please), a brief description of the defect, a \$10.00 check (for shipping and handling) and a copy of your sales receipt.