

INTRODUCTION

Your RadioShack FRS-103 is a lightweight, palm-sized radio that you can carry almost anywhere. Use it at shopping malls, amusement parks, or sports events to contact family and friends, or in a neighborhood watch for vital communications.

You can talk with another person who has an FRS radio set to the same *frequency* (462.5625 MHz, FRS Channel 1) as your FRS-103.

Your radio has auto-squelch, which means you won't hear anything on the channel unless someone is transmitting nearby in the same channel. But, you can turn off auto-squelch to hear weaker, distant transmissions (see Page XXX).

Your radio also has a built-in *modulation limiter circuit*, which automatically adjusts the radio for a wide variety of voice levels to ensure a clear transmission.

If someone else is using the channel you selected and you do not want to hear that person, select another channel or use the quiet feature (see "Using the Quiet Feature Page XXX).

The supplied hand strap and belt clip let you take your radio almost anywhere.

We recommend you record your radio's serial number here. The number is on radio's back panel.

Serial Number:

INSTALLING BATTERIES

Your radio uses four AAA batteries for power. We recommend alkaline batteries (such as RadioShack Cat. No. XXX).

Note: You can also use rechargeable batteries (such as Cat. No. XXX) in the radio.

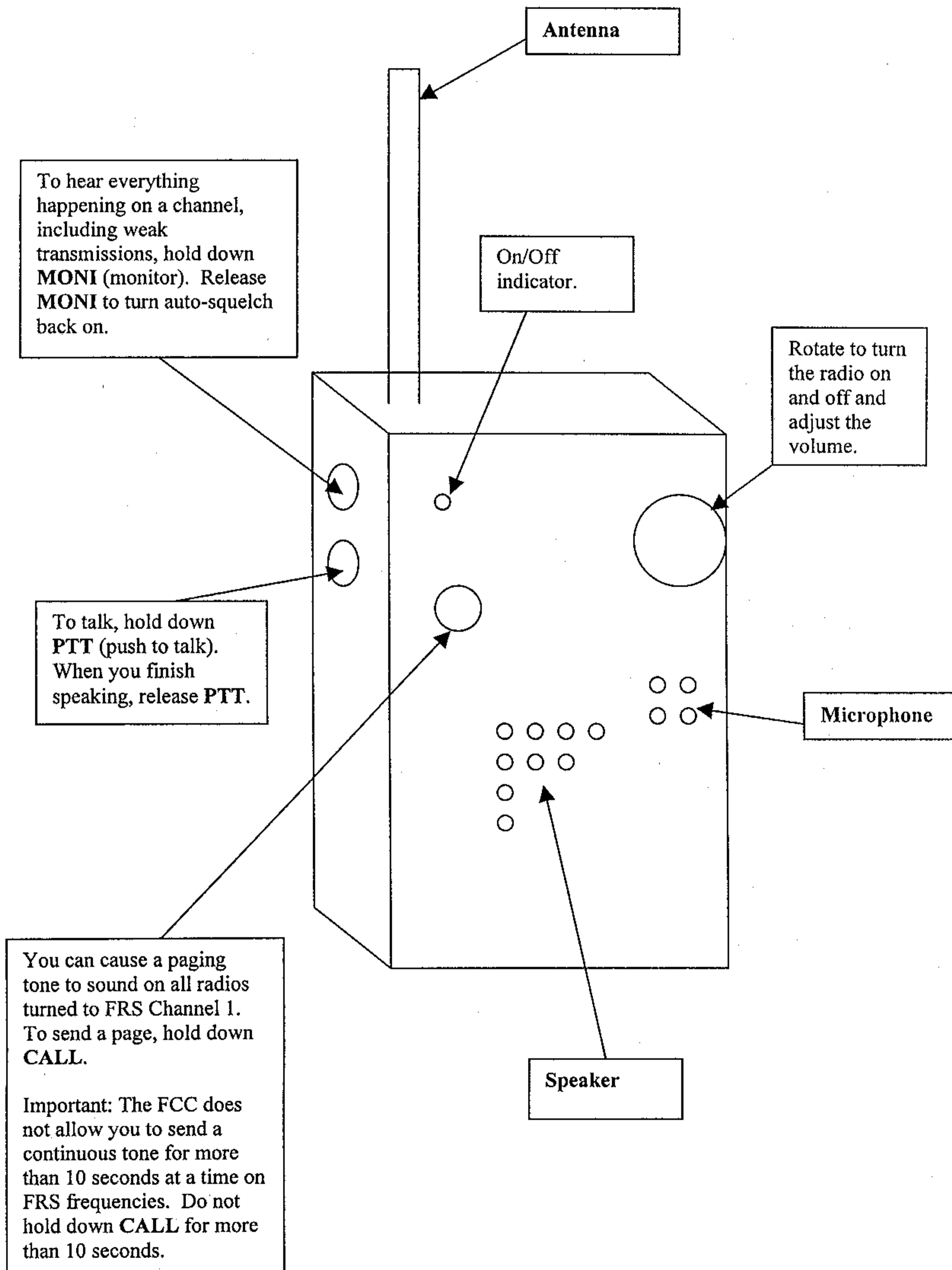
Be sure the radio is off, then pull in the battery compartment at the bottom. Lift up the bottom of the cover to remove it.

Install the batteries as indicated by the polarity symbols (+ and -) inside the compartment. Then replace the cover and push the tab onto the cover to latch it.

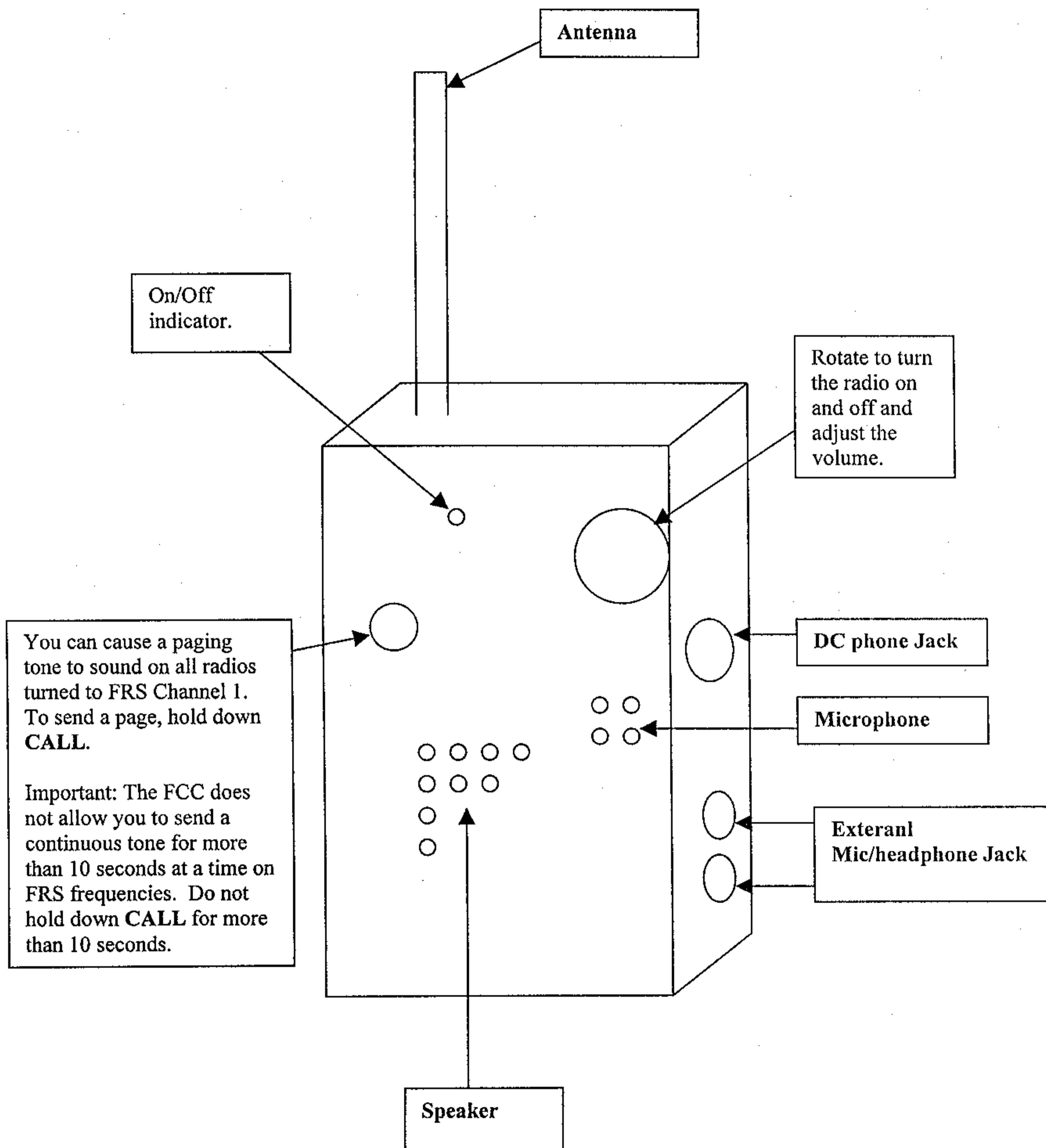
Caution: Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.

The radio's range decreases as the battery power decreases. To ensure maximum range, keep fresh batteries installed in the radio.

USING THE RADIO



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ATTACHING THE BELT CLIP

Slide the belt onto the tab on the back of the radio. Then slide the belt over your belt.

To remove the belt clip, pull the belt clip down and slide it off.

ATTACHING THE HAND STRAP

Slide the hand strap's small loop under the bar next to **VOLUME/UP**. Then pull the large loop through the small loop.

CARING FOR YOUR RADIO

To enjoy your radio for a long time:

- Handle it gently.
- Keep it away from dust, moisture, and temperature extremes.
- Clean it with a damp cloth. Do not use harsh chemicals.

USING THE QUIET FEATURE

The Quiet feature lets you talk and listen to people who using radios set to the same channel and quiet code. This is like having a sub-channel within a channel, giving you greater communication flexibility.

1. Be sure the radio is off, remove all the batteries from the battery compartment.
2. The quiet code can be set by flipping the switches to the desire frequency / tone.

Quiet tones selection tables:

Tone	Frequency (Hz)	Positions					Tone	Frequency (Hz)	Positions				
0	0					ON	8	85.4	X				ON
		X	X	X	X	OFF				X	X	X	OFF
1	67.0				X	ON	9	88.5	X			X	ON
		X	X	X		OFF				X	X		OFF
2	69.3			X		ON	10	91.5	X		X		ON
		X	X		X	OFF				X		X	OFF
3	71.9			X	X	ON	11	94.8	X		X	X	ON
		X	X			OFF				X			OFF
4	74.4		X			ON	12	100.0	X	X			ON
		X		X	X	OFF					X	X	OFF
5	77.0		X		X	ON	13	107.2	X	X		X	ON
		X		X		OFF					X		OFF
6	79.7		X	X		ON	14	110.9	X	X	X		ON
		X			X	OFF						X	OFF
7	82.5		X	X	X	ON	15	114.8	X	X	X	X	ON
		X				OFF							OFF

FCC INFORMATION

Important: Do not open your radio to make any internal adjustments. Your radio is set to transmit a regulated signal on an assigned frequency. It is against the law to alter or adjust the settings inside the radio to exceed those limitations. Any adjustments made to your radio must be made by a qualified technician using the proper test equipment. To be safe and sure:

- Never open your radio's case.
- Never change or replace anything in your radio except the batteries.

Your radio might cause TV or radio interference even when it is opening properly. To determine whether your radio is causing the interference, turn it off. If the interference goes away, your radio is causing it. Try to eliminate the interference by:

- Moving your radio away from the receiver
- Calling your local RadioShack store for help

Using your FRS-103 as described in this manual exposes you to RF energy well below the FCC's recommend limits.

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.

Modifying or tampering with the radio's internal components can cause a malfunction and might invalidate the radio's warranty and void your FCC authorization to operate it. If your radio is not performing as it should, take it to your local RadioShack store for assistance.

SPECIFICATIONS

Audio Power Output	200mW
Frequency	462.5625MHz (FRS Channel 1)
Quiet Codes.....	Standard CTCSS Tones
Power	6.0VDC
Dimensions (HWD).....	4¼ x 2½ x 1½ Inches (106 x 64 x 40 mm)
Weight (without batteries).....	XXXXXX

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.