

# Owner's Manual

Cat. No. 21-1805

## SPECIFICATIONS

Output Power .....500 mW ERP  
 Battery Life (Alkaline) ..... 20 Hours (Typical)  
 (Standard 10% Talk Time/90% Standby Time)  
 Quiet Codes (Standard CTCSS Tones):

Code	Tone (Hz)	Code	Tone (Hz)	Code	Tone (Hz)
A	77.0	D	107.2	G	136.5
B	88.5	E	118.8		
C	97.4	F	127.3		

Frequencies:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	462.5625	5	462.6625
2	462.5875	6	462.6875
3	462.6125	7	462.7125
4	462.6375		

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

### RadioShack Limited Warranty

This product is warranted against defects for 90 days from date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. Within this period, we will repair it without charge for parts and labor. Simply **bring your RadioShack sales slip** as proof of purchase date to any RadioShack store. Warranty does not cover transportation costs. Nor does it cover a product subjected to misuse or accidental damage. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. Some states do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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**RadioShack**  
 A Division of Tandy Corporation  
 Fort Worth, Texas 76102

10/96

Printed in the USA



**FRS-105**

- n No License Required!
- n Clear Communications Up to 1 Mile
- n Automatic Power Save
- n Automatic Squelch
- n Quiet Channel Feature
- n Weather Resistant Sport Styling
- n Removable Belt Clip

RadioShack welcomes you to the next generation of personal communication — the Family Radio Service (FRS). FRS is a new license-free, two-way, short-range voice radio service that lets families and groups keep in touch with each other on specific reserved channels.



**RadioShack™**

## INTRODUCTION

Your RadioShack FRS-105 is a lightweight, palm-sized radio that you can carry almost anywhere. Use it at shopping malls, amusement parks, sports events, or at the beach to contact family and friends, or in a neighborhood watch for vital communications.

You can talk with another person who has an FRS radio if both radios are tuned to the same *channel*. Your radio has 7 channels. Each channel is a specific *frequency*.

If someone else is using the channel you selected and you do not want to hear that person, select another channel (see "Using the Radio" on Pages 4 and 5) or use the quiet feature (see "Using the Quiet Feature" on Page 6).

Your radio has *auto-squelch*, which means you won't hear anything on a channel unless someone is transmitting nearby on the same channel. You can turn off auto-squelch to hear weaker, distant transmissions (see Pages 4–5).

Also, if you transmit continuously for over 2 minutes, the radio automatically switches to a *power save* mode and stops the transmission. The radio returns to full power usage when you release **PUSH TO TALK**.

You can connect an optional earphone and an external microphone (not supplied) to the radio. And, the belt clip lets you take your radio almost anywhere.

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

Serial Number:

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## FCC INFORMATION

**Important:** Do not open your radio to make any internal adjustments except as instructed in this manual. Your radio is set up 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 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 operating 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-105 as described in this manual exposes you to RF energy well below the FCC's recommended limits.

## 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.

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.

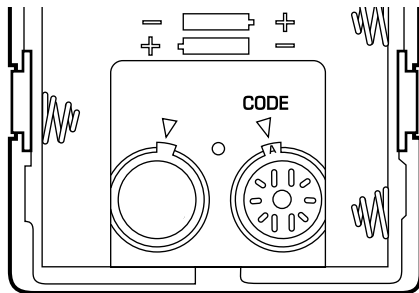
## SETTING A CHANNEL

You can communicate with anyone who has a radio set to the same channel. See "Using the Radio" on Pages 4 and 5 for information about changing your radio's channel.

## USING THE QUIET FEATURE

The quiet feature lets you talk and listen to people who are using other radios set to the same channel *and* quiet code. This is like having a sub-channel within a channel, which gives you greater communication flexibility. When you set a quiet code (7 to choose from), you can communicate with anyone who has a radio set to the same channel and code. Your radio is preset to not use a quiet code, but you can change that.

To set a quiet code, remove the battery cover and the batteries, then use your thumb or a coin to turn **CODE** to the quiet code (**A** to **G**) you want to use or **0** if you do not want to use a quiet code. The set code shows below **CODE** as you turn it.

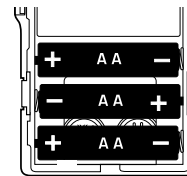
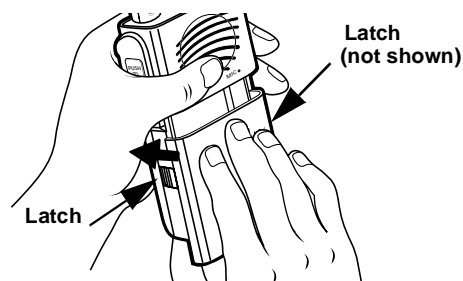


When you set a quiet code, that quiet code is automatically set for all channels.

## INSTALLING BATTERIES

Your radio uses three AA batteries for power. You can use alkaline or rechargeable batteries. (If you use rechargeable batteries, you must charge them before you can use them in the radio).

Be sure the radio is off, then remove the battery compartment cover by pushing both latches toward the back of the radio and sliding the cover off. Then install the batteries according to the correct polarity (+ and -) as shown.



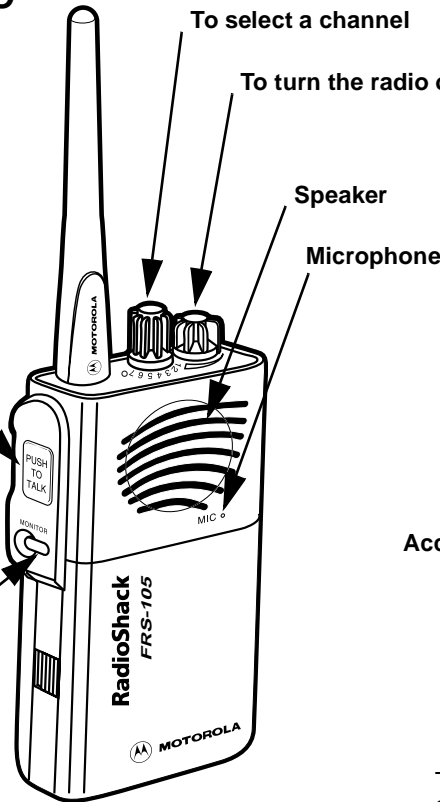
**Caution:** Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.

**Note:** If you plan to use a quiet code, you can change the radio's quiet code setting before you finish installing the batteries and replacing the radio's battery compartment cover. See "Using the Quiet Feature" on Page 6 for more information.

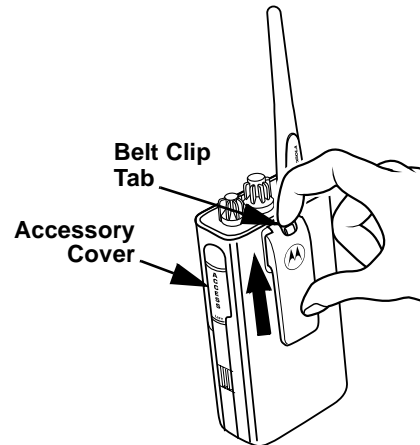
## USING THE RADIO

To talk, hold the radio straight up and down with the microphone at least 2 inches from your mouth, then hold down **PUSH TO TALK** and speak into the microphone. When you finish speaking, release **PUSH TO TALK**. (Do not touch the antenna while you press **PUSH TO TALK**.)

To hear everything happening on a channel, including weak transmissions and radios set to a different quiet code, hold down **MONITOR**. Release **MONITOR** to turn auto-squelch back on.



To remove the attached belt clip, slide it up while using your fingernail to pull the belt clip's tab toward you. To reattach the belt clip, slide it down onto the back of the radio until it clicks.



To connect an external microphone or earphone, pull up the accessory cover on the side of the radio, then plug the microphone's  $\frac{3}{32}$ -inch plug into the radio's microphone jack or the earphone's  $\frac{1}{8}$ -inch plug into the radio's earphone jack.

**Note:** Your local RadioShack store has a wide selection of external microphones and earphones.

### Listening Safely

To protect your hearing, follow these guidelines when you use an earphone.

- Set the volume to the lowest setting before you begin listening. Then adjust the volume to a comfortable level.
- Don't listen at extremely high volume levels.
- Once you set the volume, don't increase it.

### Traffic Safety

Do not wear an earphone while operating a motor vehicle or riding a bicycle. This can create a traffic hazard and could be illegal in some areas.

Even though some earphones let you hear outside sounds when listening at normal volume levels, they still can present a traffic hazard.

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