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# 14 Channel Personal FRS 2-Way Radio

OWNER'S MANUAL — Please read before using this equipment.

Family Radio Service (FRS) is a license-free, two-way, short-range voice radio service that lets families and groups keep in touch with each other on specific reserved channels.

Your RadioShack 14 Channel Personal FRS 2-Way Radio is a lightweight, palm-sized radio you can use to talk with another person who has an FRS radio set to the same frequency as your radio.

Your radio has auto-squelch, so you will not 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.

Your radio has last channel memory retention. It automatically resumes on the last channel you monitored when you turn on the radio.

You can connect an optional speaker/microphone and earphone (neither supplied, available at your local RadioShack store) to the radio.

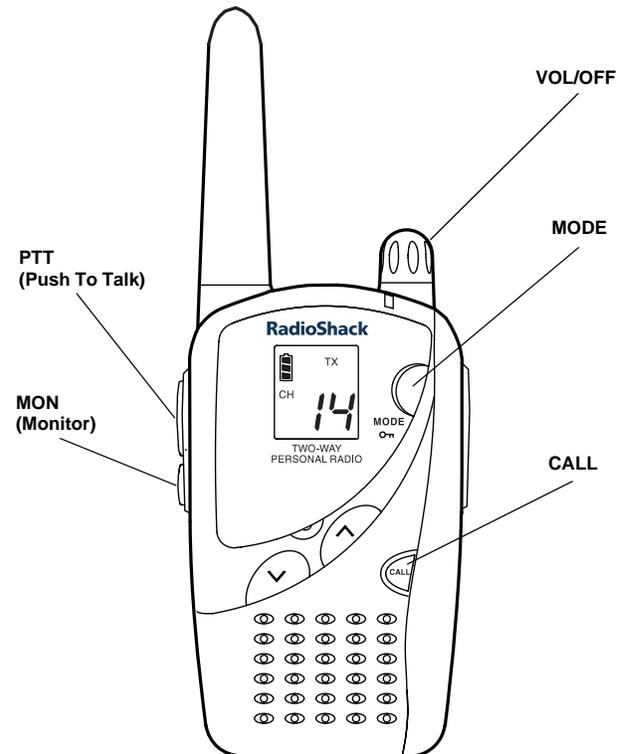
Your radio's other features include:

**14 Channels** — provide clear communications for up to two miles.

**4 User-Selectable Call Signals** — let you select the alert tone.

**Channel Scan** — use to find other FRS users.

## A QUICK LOOK AT YOUR RADIO



## INSTALLING BATTERIES

Your radio requires three AA alkaline or rechargeable batteries for power. For the best performance and longest life, we recommend RadioShack batteries.

### Cautions:

- Use only fresh batteries of the required size and recommended type.
- Do not mix old and new batteries, different types of batteries (alkaline or rechargeable), or rechargeable batteries of different capacities.

Follow these steps to install batteries.

1. Rotate **VOL/OFF** fully counterclockwise to turn off the radio, then slide off the battery compartment cover.
2. Slide **CHARGE OFF/ON** inside the battery compartment to **OFF** (for alkaline batteries) or **ON** (for Ni-Cd or Ni-MH rechargeable batteries).

**Warning:** Never install non-rechargeable batteries when **CHARGE OFF/ON** is set to **ON**. Non-rechargeable batteries can get hot or explode if you try to recharge them.

3. Install three AA batteries according to the polarity symbols (+ and -) marked inside.
4. Replace the cover.

As you use the radio, the battery icon's elements (🔋) disappear to show how much power remains. When only one element remains, replace alkaline batteries or recharge Ni-Cd or Ni-MH batteries.

**Warning:** Dispose of old batteries promptly and properly. Do not burn or bury them.

**Caution:** If you do not plan to use the radio for a month or longer, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

## Recharging Ni-Cd or Ni-MH Batteries

**Warning:** Do not attempt to charge alkaline batteries. Non-rechargeable batteries can get hot or explode if you try to recharge them.

If you use rechargeable Ni-Cd or Ni-MH batteries, you can recharge them in the radio using an optional AC or DC adapter (both available at your local RadioShack store).

The radio's DC jack is only for charging Ni-Cd or Ni-MH batteries. Connecting an adapter will not power the radio.

You can recharge Ni-Cd or Ni-MH batteries inside the radio using a 9V, 100 mA AC or DC adapter and a size H Adaptaplug™ connector (neither supplied). Both adapters and Adaptaplug are available at your local RadioShack store.

### Cautions:



You must use a Class 2 power source that supplies 9V DC and delivers at least 100 mA. Its center tip must be set to positive and its plug must fit the radio's **DC** jack. Using an adapter that does not meet these specifications could damage the radio or the adapter.

- Always connect the adapter to the radio before you connect it to an external power source (such as an AC outlet or a vehicle cigarette-lighter socket). When you finish, disconnect the adapter from the power source before you disconnect it from the radio.

Follow these steps to connect an adapter to the radio.

1. Rotate **VOL/OFF** fully counterclockwise to turn off the radio, then slide off the battery compartment cover.

2. Set **CHARGE OFF/ON** to **ON**.

3. Attach the Adaptaplug to the adapter so **TIP** reads positive (+).

4. Connect the charger's barrel plug to the radio's DC jack and plug its other end into a standard AC outlet or 12V power source.

Complete charging takes about 10 hours. When charging is complete, unplug the AC or DC adapter from the power source, then disconnect it from the radio's DC jack.

**Note:** Ni-MH batteries take longer to charge than Ni-Cd batteries.

## OPERATION

1. Rotate **VOL/OFF** to turn the radio on and off and adjust the volume. When the radio is on, the power indicator flashes.

**Note:** If you do not press any button on the radio or the radio receives no signal after about 10 seconds, a built-in energy saving system switches on automatically to reduce power consumption and lengthen standby time.

2. Hold down **CALL** to send a page to other FRS radios set to the same channel. **TX** appears and the call tone sounds. After you hold down **CALL** for about 6 seconds, the tone stops.

3. Hold down **PTT** (push-to-talk) and speak into the microphone to transmit. **TX** appears. When you finish your transmission, release **PTT**.

**Note:** After you hold down **PTT** for about 2 minutes, the radio automatically stops your transmission to save power.

4. Hold down **MON** (monitor) to hear everything on a channel, even weak transmissions. Release **MON** to turn auto-squelch back on.

You can connect an optional microphone or speaker with a  $\frac{3}{32}$ -inch (2.5 mm) mini plug and a  $\frac{1}{8}$ -inch (3.5 mm) plug to the **MIC/EAR** jacks.

## Selecting a Channel

To manually select a channel, press **▲** or **▼**. The selected channel number appears.

1. To scan through the channels, press **MODE** once. **SCAN** flashes and a beep sounds.
2. Press **▲** or **▼**. The radio automatically scans through the channels and stops on an active channel momentarily. Press **MODE**, **PTT**, or **CALL** to stop scanning.

**Note:** The radio continues to scan through channels if you do not press any buttons.

### FRS Frequencies

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
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

### Selecting Call Tone

Press **MODE** twice. 🗣️ flashes. Then press ▲ or ▼ to select one of four different call tones. Press **MODE** to return to standby.

### Using Key Lock

You can lock **MODE**, ▲, and ▼. Hold down **MODE** for about 1 second to lock or unlock the keys. 🔒 appears when the keys are locked.

### Using the Belt Clip

Insert the clip into the socket at the back of the radio until it clicks. To remove the clip, press the button at the top of the radio and pull out the clip.

### Using the Wrist Strap

You can attach the supplied wrist strap to the radio. Slide the wrist strap's small loop under the bar at the back of the radio. You might need to use a small screwdriver or a straightened paper clip. Then pull the strap's large loop through the small loop.

### CARE

Keep the radio dry; if it gets wet, wipe it dry immediately. Use and store the radio only in normal temperature environments. Handle the radio carefully; do not drop it. Keep the radio away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the radio's internal components can cause a malfunction and might invalidate its 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.

### FCC Information

**Important:** Do not open your radio to make any internal adjustments. Your radio is set up to transmit a regulated signal on one of 14 assigned frequencies. It is illegal 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:

- 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

If you cannot eliminate the interference, the FCC requires that you stop using the radio.

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.

### Safety Information

Your wireless handheld portable transceiver contains a low power transmitter. When the push-to-talk (**PTT**) button is pressed, it sends out radio frequency signals. The device is authorized to operate at a duty factor not to exceed fifty percent. In August 1996, the Federal Communications Commission adopted RF exposure guidelines with safety levels for handheld wireless devices.

#### Cautions:

- To maintain compliance with the FCC's RF exposure guidelines, hold the transmitter and antenna at least 2 inches from your face and speak in a normal voice, with the antenna pointed up and away from your face. If you wear the headset 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 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.

# SPECIFICATIONS

Frequency Range .....	462.5625 – 467.7125 MHz
Channels .....	14
RF Output Power .....	500 mW ERP
Power Supply .....	4.5 VDC (3 × AA Alkaline)
Operation Temperature .....	–4 to 122°F (–20 to 50°C)
Dimensions (HWD).....	4 <sup>3</sup> / <sub>16</sub> × 2 <sup>1</sup> / <sub>2</sub> × 1 <sup>1</sup> / <sub>4</sub> inch (106.3 × 63.7 × 32.1 mm)
Weight .....	4 <sup>5</sup> / <sub>16</sub> oz (122g)

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

### Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RadioShack Customer Relations, 200 Taylor Street, 6th Floor, Fort Worth, TX 76102

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