

14-Channel Personal Radio

with LCD Display and 38 Quiet Codes

21-1863

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

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! IMPORTANT !

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|  — Warning |  — Important |
|  — Caution |  — Hint |
|  — Note | |

! WARNING !

- Do not attempt to charge alkaline batteries. Non-rechargeable batteries can get hot or explode if you try to recharge them.
- Never install non-rechargeable batteries when CHARGE ON/OFF is set to ON. Non-rechargeable batteries can get hot or explode if you try to recharge them.
- Dispose of old batteries promptly and properly. Do not burn or bury them.

CAUTION



You must use a Class 2 power source that supplies regulated 6V DC and delivers at least 600 mA. Its center tip must be set to positive and its plug must fit the radio's DC 6V jack. Using an adapter that does not meet these specifications could damage the radio or the adapter.

- Always connect the AC adapter to the radio before you connect it to AC power. When you finish, disconnect the adapter from AC power before you disconnect it from the radio.
- Use only fresh batteries of the required size and recommended type.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.
- If you do not plan to use the radio for a month or more, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

NOTE

You can use your radio while charging the batteries if you connect it to a DC-DC regulated and filtered adapter (such as RadioShack Cat. No. 273-1859), but not if you connect it to an AC-DC regulated adapter (such as Cat. No. 273-1762).

Lock — locks the **SCAN/▲**, **V/CALL** and **MENU/QUIET** keys (see “Using Key Lock” on Page 2).

Courtesy Tone — sounds at the end of a conversation as an end-of-message acknowledgement (see “Setting the Courtesy Tone” on Page 3).

14 Channels — provide clear communication for up to two miles.

Channel Scan — helps you find other FRS users (see “Operation” on Page 2).



Key Tone — sounds to show that you pressed a key (see “Setting the Key Tone” on Page 3).

38 Quiet Codes — eliminate interference from other radios that are not tuned to the same channel and quiet code as your radio (see “Using Quiet Codes” on Page 2).

The 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 Radio is a lightweight, palm-sized radio you can use to talk with another person who has a 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 use the **MON** (monitor) key to temporarily turn off auto-squelch to hear weaker, distant transmissions.

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

INSTALLING BATTERIES

Your radio requires 4 AAA alkaline or rechargeable nickel-cadmium (Ni-Cd)/nickel-metal hydride (Ni-MH) batteries (not supplied) for power. For the best performance and longest life, we recommend RadioShack batteries.  

You can also recharge Ni-Cd or Ni-MH batteries inside the radio at home or in your vehicle, using a 6V, 600mA AC or DC adapter and a size F Adaptaplug™ connector (neither supplied). Both adapters and the Adaptaplug are available at your local RadioShack store.  

1. Rotate **VOLUME/ON/OFF** counterclockwise until it clicks.
2. Slide the battery compartment cover in the direction of the arrow to remove it.
3. Slide **CHARGE ON/OFF** inside the battery compartment to **OFF** (for alkaline batteries) or **ON** (for Ni-Cd or Ni-MH rechargeable batteries).
4. Place the batteries in the compartment as indicated by the polarity symbols (+ and -) marked inside.

5. Replace the cover. Then rotate **VOLUME ON/OFF** clockwise until it clicks to turn on the radio. If you installed alkaline batteries, stop here.

6. If you installed rechargeable batteries, attach the Adaptaplug to the adapter so TIP reads positive (+).

7. Connect the Adaptaplug's other end to **DC 6V**, then plug the adapter into a standard AC outlet or your vehicle's cigarette-lighter adapter. 

Complete charging takes about 10 hours. Average charging time varies, depending on capacity. Typically, Ni-MH batteries charge in about 10 hours. Ni-Cd batteries charge in about 4 hours.

When charging is complete, unplug the AC or DC adapter from the power source, then disconnect it from the radio's **DC 6V** jack. 

The battery icon's segments appear to show how much power remains. When the battery icon's three segments flash or the radio stops operating, replace or recharge the batteries.

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! IMPORTANT !

The EPA certified RBRC® Battery Recycling Seal on the nickel-cadmium (Ni-Cd) battery indicates RadioShack is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful life, when taken out of service in the United States or Canada. The RBRC program provides a convenient alternative to placing used Ni-Cd batteries into the trash or the municipal waste stream, which may be illegal in your area. Please call 1-800-THE-SHACK (1-800-843-7422) for information on Ni-Cd battery recycling and disposal bans/restrictions in your area. RadioShack's involvement in this program is part of the company's commitment to preserving our environment and conserving our natural resources.



NOTE

Operation

If you hold down **PTT** for about 2 minutes, the radio automatically stops transmitting to save power. The radio beeps and **TX** flashes until you release **PTT**.

Using Quiet Codes

- To find the active channel and quiet code used by another radio, hold down **SCAN/▲** until the channel number appears. After about a second, the quiet code then appears. Then press **PTT** once to hold the channel number and quiet code on the display.
- When you set your radio to a channel, you cannot communicate with another user who is on the same channel but is using a different quiet code.

Using Key Lock

When the keys are locked, you can still send a page to other FRS radios set to the same channel by holding down **V/CALL**, but you cannot select a channel by pressing **V/CALL**.

USING SCANNING

- While the radio is scanning channels, press **PTT** once to stop the scan and tune the active channel. To continue scanning, hold down **SCAN/▲** for about 2 seconds until the radio tunes the next active channel. Press **PTT** again to stop scanning.
- The radio automatically scans through quiet codes while scanning through the channels. The quiet code feature automatically turns on when the radio detects a quiet code signal on a channel, and turns off after the signal disappears.
- If you want to stay on the active channel and quiet code, press **PTT** to stop scanning before the signal disappears.
- To quickly find a quiet code, hold down **SCAN/▲** or **V/CALL** until the quiet code appears, then release **SCAN/▲** or **V/CALL**.

OPERATION

SCAN/▲ – Press to manually select a channel. The selected channel number appears. Or, hold down for about 2 seconds to scan through the channels. The radio automatically scans through the channels and pauses on each active channel. Press **PTT** to stop scanning.



VOLUME ON/OFF – Rotate to turn the radio on and off and adjust the volume.

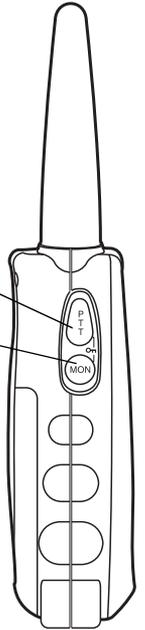
V/CALL – Press to manually select a channel. The selected channel number appears. Hold down **V/CALL** to send a page to other FRS radios set to the same channel. **TX** appears and the call tone sounds. After you hold down **V/CALL** for about 6 seconds, the tone stops.

DC 6V Jack – Use to charge Ni-Cd or Ni-MH batteries and to power the radio.

MENU/QUIET – Press to select a quiet code (see "Using Quiet Codes" on Page 2).

PTT – Hold down and speak into the microphone to transmit. **TX** appears. Release **PTT** to stop transmitting.

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



USING QUIET CODES

Quiet Codes lets you talk and listen to other radios set to the same channel and quiet code. This is like having a sub-channel within a channel, giving you greater communication flexibility. When you set a quiet code (there are 38 codes to choose from) and turn on this feature, you can communicate with anyone who has a radio set to the same channel and code or set to the channel only.

- Repeatedly press **MENU/QUIET** until the quiet code flashes on the display.
- Repeatedly press **SCAN/▲** or **V/CALL** until you see the code number you want to use. (See the "Quiet Code Chart" for a complete list of quiet codes).
- Press **PTT** to store the code.
- To turn off the quiet code feature, press **MENU/QUIET** once. The quiet code number disappears.

QUIET CODE CHART

Code	Frequency (Hz)	Code	Frequency (Hz)
1	67.0	20	131.8
2	71.9	21	136.5
3	74.4	22	141.3
4	77.0	23	146.2
5	79.7	24	151.4
6	82.5	25	156.7
7	85.4	26	162.2
8	88.5	27	167.9
9	91.5	28	173.8
10	94.8	29	179.9
11	97.4	30	186.2
12	100.0	31	192.8
13	103.5	32	203.5
14	107.2	33	210.7
15	110.9	34	218.1
16	114.8	35	225.7
17	118.8	36	233.6
18	123.0	37	241.8
19	127.3	38	250.3

USING KEY LOCK

You can lock **SCAN/▲**, **V/CALL** and **MENU/QUIET**. Hold down **MON** and press **PTT** to lock or unlock the keys. **ON** appears when the keys are locked.

SETTING THE COURTESY TONE

You can set your radio so the person you are communicating with hears a tone when you finish transmitting. To turn on the radio's courtesy tone, hold down **MENU/QUIET** until **C-TONE** flashes. **On** appears when the courtesy tone is on and **OFF** appears when it is off. Press **SCAN/▲** or **V/CALL** to turn the courtesy tone on or off, then press **PTT** to store the setting. Otherwise, the radio stores the displayed setting after about 15 seconds.

USING THE BACKLIGHT

Your radio's display has a backlight that turns on for about 10 seconds when you press any key except **PTT**. To turn on the backlight without changing the radio's settings, press **MON**. 

SETTING THE KEY TONE

You can set the radio so it sounds a tone when you press any key except **PTT** or **MON**. To turn on the key tone, hold down **MENU/QUIET** for about 2 seconds to enter menu mode, then continue to press **MENU/QUIET** until  flashes. **On** appears when the key tone is on and **OFF** appears when it is off. Press **SCAN/▲** or **V/CALL** to turn the key tone on or off. Press **PTT** or **MENU/QUIET** to store the setting or it will store the displayed setting after 15 seconds.

USING THE SWIVEL BELT CLIP

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

USING AN OPTIONAL WRIST STRAP

You can attach an optional wrist strap (not supplied) to the radio. Slide the wrist strap's small loop under the bar on the top of the radio. You might need to use a small screwdriver or straightened paper clip to do this. 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.

SERVICE AND REPAIR

If your radio is not performing as it should, take it to your local RadioShack store for assistance. 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.

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.

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.

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.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is needed.
- Consult your local RadioShack store or an experienced radio/TV technician for help.

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

Changes or modifications not expressly approved by RadioShack may cause interference and void the user's authority to operate the equipment.

You must use shielded interface cables with this equipment.

SAFETY INFORMATION

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. 



You cannot turn on the backlight while the radio is receiving a signal.

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, 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.

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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To be safe:

- Never open your radio's case.

- Never change or replace anything in your radio except the batteries.

SPECIFICATIONS

Channels (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

Frequency Range 462.5625 to 467.7125 MHz

Channels 14

RF Output Power 400 to 500mW ERP

Power Supply 6.0 VDC (4 × AAA Batteries)

Operating Temperature -4 to 122 °F
(-20 to 50 °C)

Dimensions (HWD) 4³/₁₆ × 2⁵/₁₆ × 1¹/₃ inches
(106 × 58 × 34 mm)

Weight 4.2 oz (120 g)

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