

22-Channel FRS/GMRS Radio Pair Pack with LCD Display

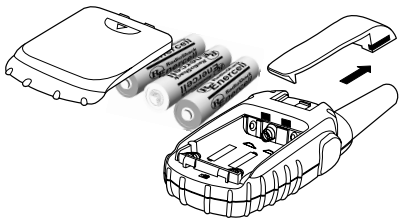
You can use your RadioShack 22-Channel FRS/GMRS Radio Pair Pack to communicate at almost any time. You can talk to your friends in the next room, next door, and around the neighborhood. Your radios transmit and receive on Family Radio Service (FRS) and General Mobile Radio Service (GMRS) frequencies.

21-1901

OWNER'S MANUAL

Please read before using this equipment.

INSTALLING BATTERIES



Each radio requires three AAA batteries (not supplied) for power. Batteries are available at your local RadioShack store or online at www.radioshack.com. You can also use Ni-Cd/Ni-MH rechargeable batteries in the radio and recharge them using an optional 6V, series regulated, 1A AC/DC adapter, available at your local RadioShack store. It takes 6 hours for Ni-CD and 12 hours for Ni-MH batteries to charge.

1. Remove the belt clip by pulling up the tab and sliding the belt clip upward. Then slide the battery compartment cover downward.
2. Set CHG ON/OFF to ON if you use rechargeable batteries or to OFF if you use non-rechargeable batteries.
3. Install the batteries according to the polarity symbols (+ and -) marked inside.
4. Replace the cover and the belt clip.

WARNING

If you use non-rechargeable batteries, be sure to set CHG ON/OFF to OFF. Non-rechargeable batteries can get hot and explode if you try to recharge them.

BATTERY NOTES

- Dispose of old batteries promptly and properly.
- Do not burn or bury batteries.
- 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 radios for a month or more, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.
- Do not overcharge rechargeable batteries.
- Replace the batteries within 30 seconds after you remove them to protect the radio's memory settings for key tone, VOX, talk confirmation, and last channel..

USING AC POWER/VEHICLE BATTERY POWER

You can power the radios from a standard AC outlet or even your vehicle using a 6V, series regulated, 1A AC/DC adapter and a size H Adaptaplug™ adapter (neither supplied). Both are available at your local RadioShack store.

USING TALK CONFIRMATION (C-TONE)

You can set the radio so a confirmation tone sounds when you release PTT. The tone alerts the person you are talking to that you have finished talking. **C-TONE** appears when this setting is activated.

CARE

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

RESETTING THE RADIO

If the radio's display locks up or the radio does not work properly after you turn it on, turn it off then turn it on again. If this does not correct the problem, reset the radio by turning it off then holding down **LOCK** then turning it on again.

The radio might not turn on in some cases after you replace the batteries. If this happens, remove the batteries from the battery compartment, wait about 10 minutes, then reinstall them.

LOW BATTERY INDICATION

When power is low, the radio beeps and flashes. Replace or recharge the batteries.

CONTROLS & FEATURES

PTT

1. Hold down **PTT** to talk.
2. Release **PTT** to receive.

The radio automatically stops transmitting if you continuously transmit for more than 3 minutes.

CALL

Press **CALL** to send a paging tone to all radios tuned to the same channel.

UPI ▲ / DOWN/▼

Press **UPI ▲ / DOWN/▼** to adjust the volume. The volume level appears as *L1* to *L7*.

LOCK

- Press **LOCK** once, then press **UPI ▲** or **DOWN/▼** to change the channel.
- Press **LOCK** twice, then press **UPI ▲** or **DOWN/▼** to turn voice activation (VOX) on or off.
- Press **LOCK** three times, then press **UPI ▲** or **DOWN/▼** to turn the key tone on or off.
- Press **LOCK** four times, then press **UPI ▲** or **DOWN/▼** to turn the talk confirmation tone on or off.
- Hold down **LOCK** for about 2 seconds to lock the radio's keys.

You cannot change the channel, VOX setting, key tone setting, or talk confirmation setting when keylock is on.

You can attach an optional wrist strap or pager chain (not supplied, available at your local RadioShack store) to the hole on the back of the radio.

Press **PTT** or **CALL** to save the setting when you change the channel, turn VOX on or off, turn the key tone on or off, or turn the talk confirmation tone on or off.

SPK/MIC

Connect an optional headset/microphone.

CHG

Connect an AC/DC adapter to recharge rechargeable batteries.

PWR

1. Hold down **PWR** to turn on the radio.
2. Press **PWR** once to turn on the display backlight for about 15 seconds.
3. Press **PWR** again to turn off the backlight.
4. Hold down **PWR** to turn off the radio.

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

12/99

! IMPORTANT !

- Do not open your radio to make any internal adjustments. 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 made to your radio must be made by a qualified technician using the proper test equipment. Never open your radio's case. Never change or replace anything in your radio except the batteries.
- 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.



SPECIFICATIONS

No. of Channels 22

Power Output

Channels 1-7 and 15-22 700 mW Conducted
Channels 8-14 500 mW ERP

Frequency 462.5625 to 467.7125 MHz

Power Sources Three AAA batteries
Optional Series Regulated 6V, 1A,
Positive (+) Tip AC/DC Adapter with H Adaptaplug
Use of any other power source may cause damage.

Operating Temperature -4° – 122°F (-20° – 50°C)
Weight (with batteries) 4.2 oz. (119 g)
Dimensions (HWD) 3.5 × 2 × 1.2 in.
(89 × 52 × 30 mm)

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

Battery Life

This chart shows the appropriate battery life during two-way use for alkaline, Ni-Cd, and Ni-MH batteries.

Battery Type	Two-Way Use
Alkaline	23 hours
Ni-CD	6 hours (300 mAh)
Ni-MH	13 hours (600 mAh)

Two-way use is defined as 90% standby time, 5% talk time, and 5% receive time.

THE FCC WANTS YOU TO KNOW

Your radios might cause TV or radio interference even when they are operating properly. To determine whether your radios are causing the interference, turn them off. If the interference goes away, your radios are causing it. Eliminate the interference by:

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

Using your radios as described in this manual exposes you to RF energy well below the FCC's recommended limits.

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

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. !

FCC LICENSING INFORMATION

Channels 8 through 14 on your radios transmit on FRS frequencies. Channels 1 through 7 and 15 through 22 on your radios transmit on GMRS frequencies. You must have a license from the Federal Communications Commission (FCC) before you can transmit on Channels 1 through 7 and 15 through 22.

If you want to use the GMRS channels, you can get more information about FCC licensing requirements at <http://wireless.fcc.gov/prs/genmbl.html> or call 1-800-418-3676.

GMRS LICENSING INFORMATION

Before any person transmits on any channel authorized in the GMRS from any point within or over the territorial limits of any area where radio services are regulated by the FCC, the responsible party must obtain a license for a GMRS system. Any individual 18 years of age, or older, who is not a representative of a foreign government is eligible to apply for a GMRS license.

Application for a GMRS system license is made on FCC Form 605, and you can obtain a copy from the FCC's website at <http://www.fcc.gov/formpage.html> or by calling the FCC's Forms Distribution Center at 1-800-418-FORM (3676), or using fax-on-demand by calling 1-202-418-0177. There is a filing fee. For information on fees, see the FCC's website at <http://www.fcc.gov/csinfo/feeinfo.html>.

NOTE

Use of VOX and other features might reduce battery life.

SAFETY INFORMATION

Your wireless handheld portable transceiver contains a low power transmitter. When the Push-to Talk (PTT) button is pushed it sends out radio frequency (RF) signals. This device is authorized to operate at a duty factor not to exceed 50%. In August 1996, the Federal Communications Commission (FCC) adopted RF exposure guidelines with safety levels for hand-held wireless devices.

IMPORTANT: FCC RF EXPOSURE REQUIREMENTS:

This radio has been tested and meets the FCC RF exposure guidelines when used with Radio Shack accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines. Use only the supplied antenna. Unauthorized antennas, modifications, or attachments could damage the transmitter and may violate FCC regulations.