2-Way Personal Radio

- Compact Design
- 14 Channel Selection
- Clear Communication
  - Up to 2 Miles
- Automatic Squelch
- Convenient Headset Jacks
- 20-Hour Nominal Battery Life
- Recharges Batteries
  - with Optional Charger
- Paging Feature
- Auto Power Off
INTRODUCTION

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.

Your RadioShack Two-Way Family Radio is a lightweight, palm-sized radio that you can carry almost anywhere and use to talk with another person who has an FRS radio set to the same frequency as your radio.

Your radio has 14 channels and 38 different quiet codes. 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 “Quiet
Codes" on Page 14). You can talk with a person who has an FRS radio if both radios are tuned to the same channel and quiet code.

Also, if the radio is idle for 2 hours, it automatically shuts off. It turns on again when you press PUSH TO TALK (see "Using Auto Power-Off" on Page 18.)

You can connect an optional speaker/microphone and earphone (neither supplied) to the radio. You can use the provided leather case as a protective cover for the radio or use to clip on your belt and carry the radio wherever you go.

**Caution:** When removing the radio from the leather case, push it from the bottom. Do not pull the radio out by the antenna.
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PREPARATION
INSTALLING
BATTERIES

Your radio requires three AAA 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 (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.

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

3. Install three AAA batteries according to the polarity symbols (+ and –) marked inside.

4. Slide the battery cover back on.

When the batteries weaken, two beeps sound and the radio will not transmit or receive and **appears. When this happens, replace the
batteries. To ensure maximum range, keep fresh batteries in the radio.

**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 from your local RadioShack store).

The radio’s CHRG 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 6V, 60 mA AC or DC adapter and a size H Adaptaplug® (neither supplied). Both adapters and Adaptaplugs are available at your local RadioShack store.

Cautions:

You must use a Class 2 power source that supplies 6V DC and delivers at least 60 mA. Its center tip must be set to positive and its plug must fit
the radio’s CHRG 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 power source before you disconnect it from the radio.

To connect an adapter to the radio, follow these steps.

1. Rotate VOLUME/OFF fully counterclockwise to turn off the radio, then slide the battery compartment cover off in the direction of the arrow.

2. Set CHARGE ON/OFF to ON.
3. Attach the Adaptaplug to the adapter so TIP reads positive (+).

4. Connect the charger’s barrel plug to the radio’s CHRG jack and plug its other end into a standard AC outlet or a vehicle cigarette-lighter socket.

5. Complete charging takes about 15 hours. When charging is complete, unplug the AC adapter from the AC outlet, then disconnect it from the CHRG jack.

Note: Ni-MH batteries take longer to charge than Ni-Cd batteries.
OPERATION
A QUICK LOOK AT THE RADIO

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

Hold down CALL to send a page to other FRS radios set to the same channel (and quiet code, if you selected one).
Important: The FCC does not allow you to send a continuous tone for more than 10 seconds at a time on FRS frequencies. Do not hold down CALL for more than 10 seconds.

Set QUIET to the desired code to provide greater communication flexibility. See “Quiet Codes” on Page 14.

Press ▲ to scan up through the channels, or ▼ to scan down through the channels.

Hold down PUSH TO TALK and speak into MIC to transmit. When you finish your transmission, release PUSH TO TALK. BUSY appears when a call is being received.

Hold down MON (monitor) (SHIFT) 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 $\frac{3}{8}$-inch mini plug and a $\frac{1}{8}$-inch plug to the MIC/SPK jacks (or an earphone with a $\frac{1}{8}$-inch plug to the SPK jack).

**SELECTING A CHANNEL**

To manually select a channel, press $\uparrow$ or $\downarrow$. The selected channel number appears.

To scan through the channels, hold down $\uparrow$ or $\downarrow$ for about 2 seconds. **SCAN** appears. The radio automatically scans through the channels and stops for about 5 seconds on each active channel. Press any key except **QUIET** to select the desired channel, or press **QUIET** to resume the original channel setting.
The radio continues to scan through channels if you do not press any buttons.

QUIET CODES

Quiet codes let 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, giving you greater communication flexibility. When you set a quiet code (there are 38 to choose from) and turn on this feature, you can communicate with anyone who has a radio set to the same channel and code.

1. Hold down QUIET until QUIET appears and the quiet code flashes.
2. Repeatedly press (or hold down) ▲ or ▼ until you see the code number you want to use. (See the “Quiet Codes” chart on Page 16 for a complete list of quiet codes.)

3. Press QUIET to store the code.

4. To turn on the quiet code feature, press QUIET. QUIET appears. To turn off the feature, press QUIET until QUIET disappears.

Note: We recommend that you select a quiet code in the range 7–30. If you select a code below or above that range, you must wait 1 to 2 seconds after holding down PUSH TO TALK before you start talking.
### FRS Frequencies

<table>
<thead>
<tr>
<th>Channel</th>
<th>Frequency (MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>462.5625</td>
</tr>
<tr>
<td>2</td>
<td>462.5875</td>
</tr>
<tr>
<td>3</td>
<td>462.6125</td>
</tr>
<tr>
<td>4</td>
<td>462.6375</td>
</tr>
<tr>
<td>5</td>
<td>462.6625</td>
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<tr>
<td>6</td>
<td>462.6875</td>
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<tr>
<td>7</td>
<td>462.7125</td>
</tr>
<tr>
<td>8</td>
<td>467.5625</td>
</tr>
<tr>
<td>9</td>
<td>467.5875</td>
</tr>
<tr>
<td>10</td>
<td>467.6125</td>
</tr>
<tr>
<td>11</td>
<td>467.6375</td>
</tr>
<tr>
<td>12</td>
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<tr>
<td>13</td>
<td>467.6875</td>
</tr>
<tr>
<td>14</td>
<td>467.7125</td>
</tr>
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</table>

### Quiet Codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Frequency (Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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</tr>
<tr>
<td>2</td>
<td>71.9</td>
</tr>
<tr>
<td>3</td>
<td>74.4</td>
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<tr>
<td>4</td>
<td>77.0</td>
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<td>5</td>
<td>79.7</td>
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<td>6</td>
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<td>8</td>
<td>88.5</td>
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<tr>
<td>9</td>
<td>91.5</td>
</tr>
<tr>
<td>Code</td>
<td>Frequency (Hz)</td>
</tr>
<tr>
<td>------</td>
<td>---------------</td>
</tr>
<tr>
<td>10</td>
<td>94.8</td>
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<tr>
<td>11</td>
<td>97.4</td>
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<td>37</td>
<td>241.8</td>
</tr>
<tr>
<td>38</td>
<td>250.3</td>
</tr>
</tbody>
</table>
USING AUTO POWER-OFF

You can set the radio to automatically turn off if it is idle for about 2 hours.

To turn this feature on or off, hold down \( \text{\textbullet} \) while turning on the radio. \( \text{On} \) or \( \text{OF} \) briefly appears.

When this feature is turned on, \( \text{OF} \) appears steadily on the display. To clear \( \text{OF} \) from the display and use the radio again, press any button.

RESETTING THE RADIO

If the radio stops operating properly, hold down \text{CALL} while turning on the radio to reset the radio.
Note: Strong interference from a nearby radio source might temporarily prevent your radio from working properly. If UL (unlock) appears, move away from the radio source and turn your radio off and on again. If the interference continues, take your radio to your local RadioShack store for servicing.

USING KEY LOCK

You can lock the QUIET, , and keys. To lock or unlock these keys at any time, hold down SHIFT (MON) and press CALL. → appears when the keys are locked.
CARE

To enjoy your radio for a long time:

- 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 gently and carefully. Don’t drop it.
- Keep the radio away from dust and dirt.
- Wipe the radio with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the radio’s internal components can cause a malfunction and invalidate its warranty. 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 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 interfe-
ence, 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.
**SPECIFICATIONS**

Frequency Range: 462.5625–467.7125 MHz

Channels .......................... 14

Quiet Codes ...... Standard CTCSS Tones

RF Output Power: 300 mW ERP @ 4.5VDC

Power Supply ........ 3 AAA Alkaline

Sensitivity at 12dB Sinad .... 0.5µV

Adjacent Channel Rejection: 45dB

Audio Distortion ....................... 7%

Dimensions (Incl. antenna) (HWD):
3\(\frac{3}{16}\) x 2\(\frac{2}{16}\) x \(\frac{13}{16}\) in
(85 x 52 x 20 mm)

Weight (w/o batteries) .......... 2.6 oz
(73.7 g)

Accessory ............ Leather Pouch

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 the limitations on how long an implied warranty lasts or the exclusion 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