

Owner's Manual

Cat. No. 21-1811

Personal FM Transceiver

- n Water Resistant
- n 14 Channels
- n 500 mW Output Power
- n 38 Quiet Codes
- n Connect an Optional
Speaker/Microphone
or Earphone
- n Auto Power Off
- n Call Button
- n Backlit Display



RadioShack®



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 Personal FM Transceiver is a lightweight, palm-sized radio that you can carry almost anywhere.

To eliminate interference from other users on the same channel, select another channel or use the quiet feature (see "Using the Quiet Feature" on Page 6). With one of the 38 available quiet codes set and the quiet feature activated, you only communicate with FRS radios which are tuned to the same channel and quiet code as your radio.

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 use the **MON** (monitor) key to temporarily turn off auto-squelch and hear weaker, distant transmissions.



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

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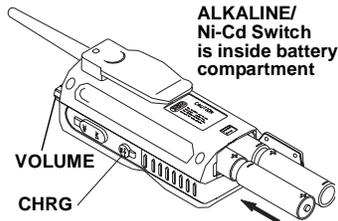
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PREPARATION

Your radio uses 4 AA batteries (not supplied) for power. We recommend alkaline batteries (available at your local RadioShack store). You can also use rechargeable nickel-cadmium batteries (such as Cat. No. 23-325) and charge them in the radio with an AC adapter (Cat. No. 273-1662). See "Charging Rechargeable Ni-Cd Batteries" on Page 4.

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



1. Rotate **VOLUME** fully counter-clockwise, then press the tab on the battery compartment cover and open the cover.
2. Slide the switch inside the compartment to **ALKALINE** (for alkaline batteries) or **Ni-Cd** (for rechargeable nickel-cadmium batteries).
3. Install the batteries according to the polarity symbols (+ and -) marked inside the cover, then close the cover.

When  appears, replace the batteries.

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

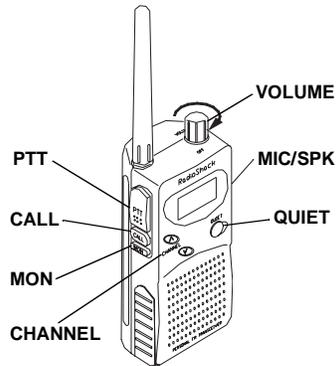
Charging Rechargeable Ni-Cd Batteries

Caution: You must use an AC adapter that supplies 7.5 volts and delivers at least 300 mA. Its center tip must be set to positive and its plug must fit the radio's **CHRG** jack. The recommended adapter meets these specifications; using an adapter that does not could damage the radio or the adapter.

Note: Charge only Ni-Cd batteries in the radio. To prevent overcharging, use an external charger to charge Ni-MH batteries.

1. Turn off the radio and open the battery compartment.
2. Slide the switch inside the compartment to **Ni-Cd**.
3. Put 4 AA Ni-Cd batteries in the compartment as shown on the back of the radio, then close the cover.
4. Attach the adapter's 3.4 mm outer diameter/1.3 mm inner diameter plug to the adapter and set the tip to positive (+).
5. Connect the adapter's plug to the radio's **CHRG** jack and plug its other end into a standard AC outlet.
6. When charging is complete (about 15 hours), disconnect the adapter from the outlet and the **CHRG** jack.

OPERATION



VOLUME — Rotate to turn your radio on and off and adjust its volume.

PTT (Push to Talk) — To transmit, hold down until  appears, then speak into the microphone. Release when you finish. **BUSY** appears when a call is being received.

CALL — Hold down to have a ringing sound on all radios tuned to the same FRS channel (and quiet code, if one is used) as your radio.

Important: The FCC does not allow you to send a continuous tone for more than 15 seconds at a time on FRS frequencies. Do not hold down **CALL** for more than 15 seconds.

Note: If the radio does not work, hold down **CALL** while turning on the radio to reset the radio. The radio will be set to channel 1 and quiet code 12, with the quiet and auto power off features disabled (see “Using the Quiet Feature” on Page 6 and “Auto Power Off” on Page 7).

MON — Hold down to turn off auto-squelch and hear everything happening on a channel, including weak transmissions. Release **MON** to turn auto-squelch back on.

CHANNEL Δ or ∇ — Press to select a channel or hold down to rapidly change channels. The selected channel number appears.

To lock or unlock the keypad, hold down **MON** and press **CALL**. $\pi=0$ appears and **QUIET**, **CHANNEL Δ** , and **∇** do not operate when the keypad lock is on.

To attach the belt clip, slide it onto the tab at the back of the radio. To remove the clip, press the tab at the top of the clip to the left and slide the clip down.

For additional listening convenience, connect an optional speaker/microphone with a $3/32$ -inch mini plug and a $1/8$ -inch plug to the **MIC/SPK** jacks (or earphone with a $1/8$ -inch plug to the **SPK** jack).

USING THE QUIET FEATURE

The quiet feature eliminates interference from other radios which are not tuned to the same channel and quiet code as your radio. When you set a quiet code (1–38) and turn on this feature, you can only communicate with users who have a radio set to the same channel and code as your radio.



Follow these steps to set a quiet code.

1. Hold down **QUIET** for 2 seconds until **QUIET** appears and the quiet code flashes.
2. Repeatedly press (or hold down) **CHANNEL ▲** or **▼** until you see the code number you want to use.
3. Press **QUIET** to store the code.

To turn on the quiet feature, press **QUIET**. **QUIET** appears. To turn off the feature, press **QUIET** so **QUIET** disappears.

Note: For the most effective communication, select a quiet code from 7 to 30. If you select a code below or above that range, you must wait 1 to 2 seconds after holding down **PTT** before you start talking.



AUTO POWER OFF

The radio's built-in timer turns off the radio if it is idle for 2 hours. Hold down **CHANNEL ▼** while turning on the radio to enable or disable the timer. **on** or **off** (off) briefly appears.

If the timer turns the radio off, **off** appears. Press any button to turn the radio back on. **off** disappears and the last selected channel appears.



FRS FREQUENCIES

Channel	Frequency (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

CARE

To enjoy your radio for a long time:

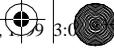
- Handle it gently.
- Keep it away from dust, moisture, and temperature extremes.
- Clean it with a damp cloth. Do not use harsh chemicals.

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.

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.

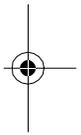


Your radio might cause TV or radio interference even when it is operating properly. To determine whether your radio is causing the interference, turn it off. If the interference goes away, your radio is causing it. Try to eliminate the interference by:

- 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.





SPECIFICATIONS

Channels 14

Quiet Codes Standard
CTCSS Tones

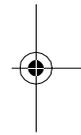
RF Output 500 mW ERP
@ 6 VDC

Power Supply 4 AA Alkaline

Dimensions incl. Antenna
(HWD) $4\frac{1}{3}$ \times $1\frac{15}{16}$ \times $1\frac{3}{8}$
Inches (200 \times 50 \times 35 mm)

Weight (w/o Batteries and
Belt Clip) 4.602 oz (132 g)

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.

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