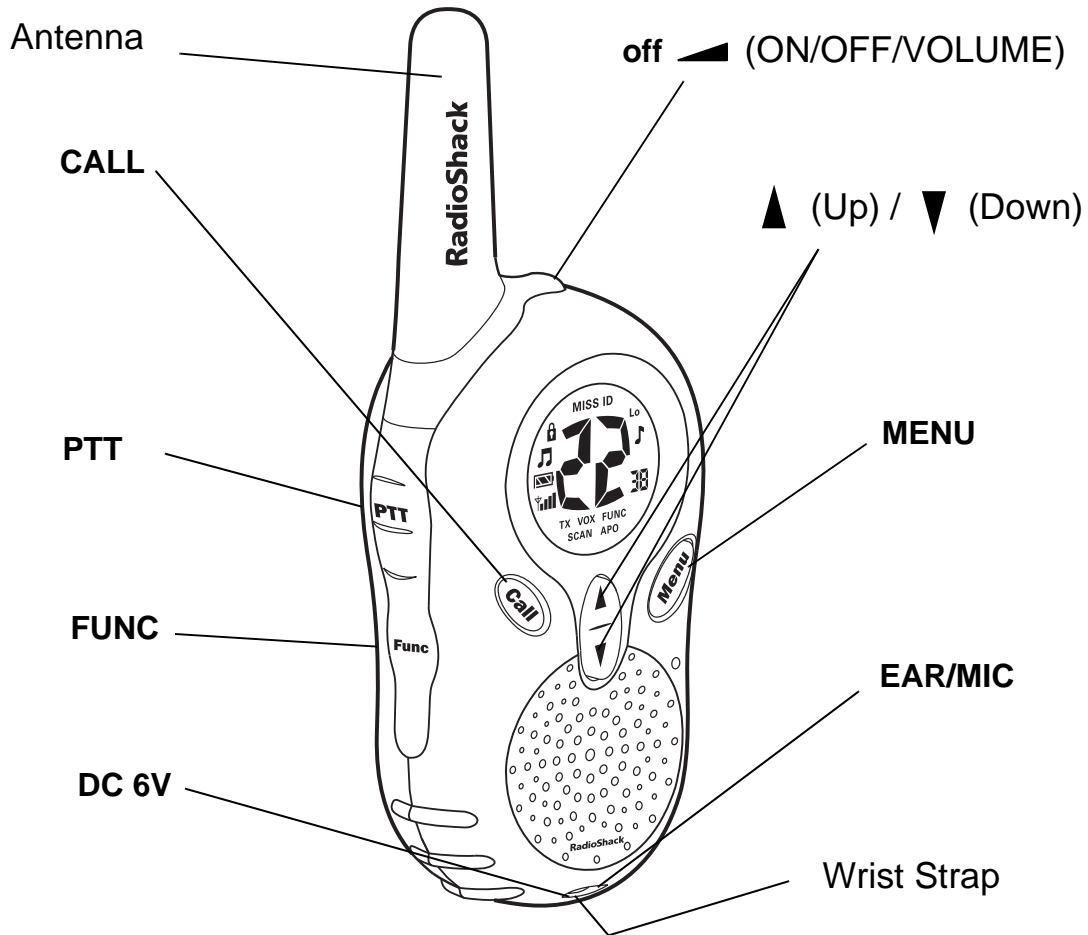


22 Ch GMRS/FRS Two-way Radios

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

21-1902



! IMPORTANT !

If an icon appears at the end of a paragraph, go to the box on that page with the corresponding icon for pertinent information.

⚠ — Warning ! — Important ⚡ — Caution 📄 — Note

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CONTENTS

Introduction	3
Package Contents	5
A Quick Look at the Display	6
Powering the Radio	6
Using Batteries	6
Recharging Ni-Cd or Ni-Mh Batteries	8
Operation	10
Turning the Radio On/Off and Adjusting the Volume	10
Transmitting	10
Selecting a Channel	10
FRS Frequencies Chart	11
Selecting Quiet Codes	12
Quiet Code Chart	13
Using Scan	14
Using Key Lock	14
Using Key Tone	14
Using VOX	15
Using APO	15
Using Hi/Lo Transmitter Power	16
Using Courtesy Tone	16
Using a Headset	17
Direct Call Operation	17
Setting Home ID	20
Setting Direct Call	20
Call Melody	21
Using the Swivel Belt Clip	21
Using an Optional Wrist Strap	22
Care	22
Service and Repair	22
FCC Information	23
FCC License Required	23
The FCC Wants You to Know	25
Safety Information	26

INTRODUCTION

Thank you for purchasing a pair of RadioShack 22 Ch GMRS/FRS Two-way Radios. They provide short-range (up to about 5 miles) voice radio communication to let families and groups keep in touch with each other on specific reserved channels.

You can use these lightweight, palm-sized radios to talk with another person who has a GMRS/FRS radio set to the same frequency as your radios.

Your radios have 22 channels and 38 different quiet codes. Your radios also have auto-squelch, so you will not hear anything on a channel unless someone is transmitting nearby on the same channel.

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

Your radio's display has a backlight that turns on for about 5 seconds when you press any key except **PTT**.

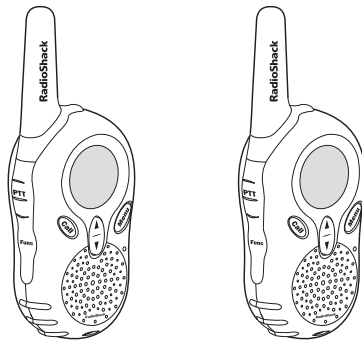
Your radio's other features include:

- **Channel Scan** — use to find other GMRS/FRS users.
- **Key Beep** — each time you press a key, except **PTT** or **FUNC**, the radio beeps once.
- **Voice Operated Transmission (VOX)** — enables standalone usage and works with handsfree accessories.
- **Automatic Power Off** — you can set the amount of time before the radio automatically turns itself off when it is idle (30, 60 or 90 minutes).
- **Hi/Lo Power Selection** — select 0.5W or 1.0W transmit power for a GMRS channel.
- **Courtesy Tone** — at the end of transmission, the radio receiving a transmission sounds a tone to confirm the end of the transmission.
- **Direct Call** — you can select the radio you want to hear your transmission. Only that radio receives a call you address to it and displays the transmitter's number identifying your radio on its display.

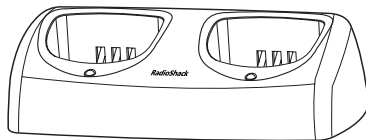
- **Phase-lock Loop (PLL) Controlled Circuitry** — provides accurate and stable channel selection.

PACKAGE CONTENTS

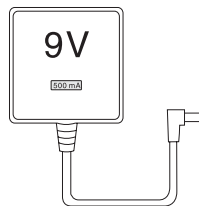
Radios (2)



Dual Charger



Rechargeable NiMH Batteries (8) **9V 500 mA AC Adapter**

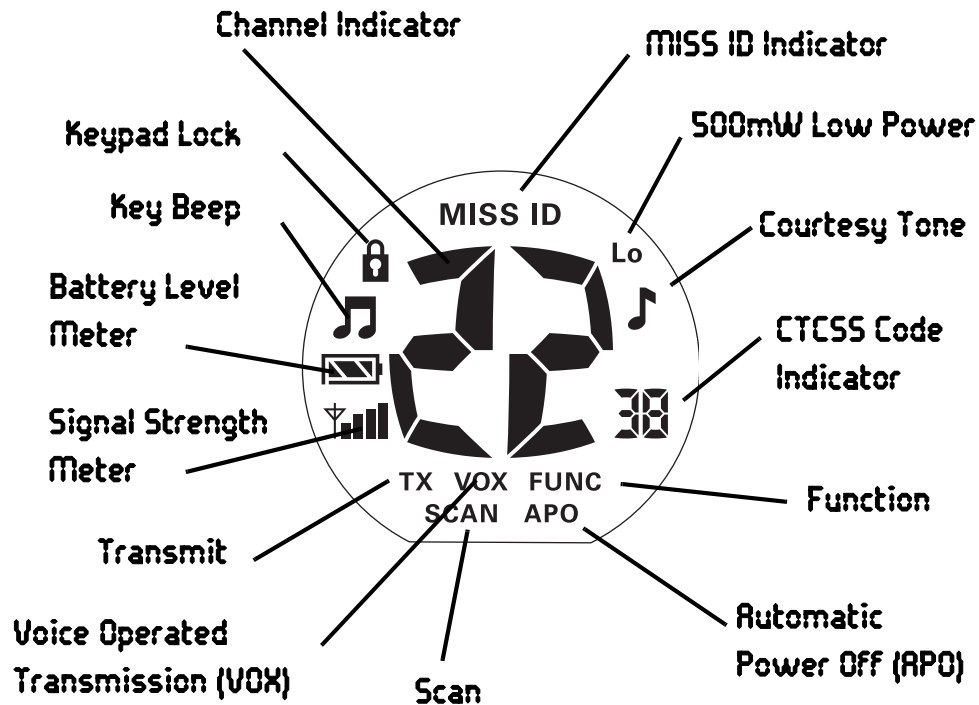


Owner's Manual (1)

Quick Start (1)

Belt Clip

A QUICK LOOK AT THE DISPLAY




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.

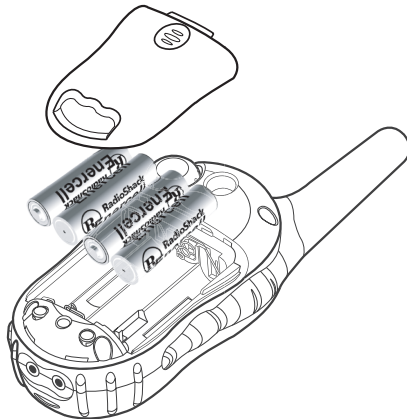
(Continued)

POWERING THE RADIO

USING BATTERIES

Your radios require four AAA rechargeable nickel-metal hydride (Ni-MH) batteries (supplied), or four AAA rechargeable nickel-cadmium (Ni-CD) batteries (not supplied), or four AAA alkaline batteries (not supplied) for power. 

1. To turn off the radio, rotate **off** ◀ clockwise until it clicks.
2. Pull down the latch on the battery compartment cover. Then remove the cover.
3. Slide **CHARGE ON/OFF** inside the battery compartment to **OFF** (for alkaline batteries) or **ON** (for Ni-MH or Ni-Cd rechargeable batteries) when charging the battery through the **6V DC** jack on the bottom of the radio. ⚠
4. Install four AAA batteries according to the polarity symbols (+ and -) marked inside.



5. Replace the cover and push the latch up until it clicks. Turn on the radio by rotating **off** ◀ counterclockwise until it clicks.

⚠ **WARNING** ⚠

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

Powering the Radio

📄 **Battery Notes** 📄



(Continued)

- 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.

! 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.

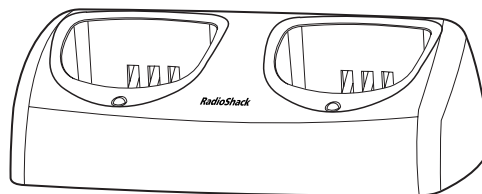


 appears on the display to show that the battery is full. Segments disappear as the battery weakens. to indicate how much battery power remains. When  flashes, replace alkaline batteries or recharge Ni-Cd or Ni-MH batteries. !


RECHARGING NI-CD OR NI-MH BATTERIES

You can use the supplied dual charger to charge the radio's batteries. You can also use an optional 6V, 600mA AC-DC adapter and a size F Adaptaplug[™] connector (not supplied) to charge the radio's batteries, or an optional 6V, 1000mA DC-DC adapter and a size F Adaptaplug[™] connector (not supplied) to charge the radio's batteries and power the radio.

Using the Supplied Dual Charger or Optional AC or DC Adapter



Supplied Dual Charger

1. To turn off the radio, rotate **off**  clockwise until it clicks.

2. To use the supplied dual charger, connect the supplied AC-DC adapter to the jack on the back of the dual charger. Then plug the other end into an AC socket. ☑
3. Pull down the latch on the battery compartment cover, then remove the cover.
4. Set **CHARGE ON/OFF** to **ON**.
5. Place four Ni-CD or Ni-MH batteries in the radio's battery compartment according to the polarity symbols (+ and -) marked inside, then replace the cover and push the latch up until it clicks.
6. To use an optional AC or DC adapter, attach the Adaptaplug to the adapter so **TIP** reads positive (+). Then connect the Adaptaplug's other end to the radio's **DC 6V** jack. Then plug the adapter into a standard AC outlet or vehicle's power source. ⚡

 Otherwise, to use the supplied dual charger, simply place the radios in the charger. ☑
7. When charging is complete, remove the radios from the dual charger or unplug the AC or DC

 **NOTE** 


- The charger might not supply enough current to charge the batteries if you use the radio to transmit at the same time.
- To ensure proper charging, use a pencil eraser to clean the contacts on the bottom of the radio and inside the dual charger.

 **CAUTION** 

You must use a Class 2 power source that supplies regulated 6V DC (Not more than 6V) and delivers at least 600mA. 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.



 **NOTE** 

- It takes about 10 hours to fully charge rechargeable batteries using the supplied dual charger. It takes about 2 hours to fully charge rechargeable batteries using an optional AC or DC adapter or quick charger (such as RadioShack Cat. No. 21-1930).
- The charger might not supply enough current to charge the batteries if you use the radio to transmit at the same time.
- Use of this radio outside the country in which it was intended to be distributed is subject to government regulations and may be prohibited.
- To save power, the radio automatically stops transmitting if you hold down **PTT** for about two minutes.


adapter from the power source. Then disconnect it from the radio's **DC 6V** jack. 

OPERATION



TURNING THE RADIO ON/OFF AND ADJUSTING THE VOLUME

Rotate **off**  to turn the radio on or off and adjust the volume. 

TRANSMITTING

Hold down **PTT** to transmit. **Tx** appears. Release **PTT** to stop transmission. 

SELECTING A CHANNEL

Press  or  to select the desired channel. The selected channel number appears

FRS FREQUENCIES CHART

Channel	Frequency (MHz)	Description
1	462.5625	FRS 1/GMRS Interstitial 1
2	462.5875	FRS 2/GMRS Interstitial 2
3	462.6125	FRS 3/GMRS Interstitial 3
4	462.6375	FRS 4/GMRS Interstitial 4
5	462.6625	FRS 5/GMRS Interstitial 5
6	462.6875	FRS 6/GMRS Interstitial 6
7	462.7125	FRS 7/GMRS Interstitial 7
8	467.5625	FRS 8
9	467.5875	FRS 9
10	467.6125	FRS 10
11	467.6375	FRS 11
12	467.6625	FRS 12
13	467.6875	FRS 13
14	467.7125	FRS 14
15	462.5500	GMRS Primary 1
16	462.5750	GMRS Primary 2
17	462.6000	GMRS Primary 3
18	462.6250	GMRS Primary 4
19	462.6500	GMRS Primary 5
20	462.6750	GMRS Primary 6
21	462.7000	GMRS Primary 7
22	462.7250	GMRS Primary 8

Operation

SELECTING 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 quiet code.

To select the desired quiet code, hold down **FUNC**. **FUNC** appears on the display. Repeatedly press or hold ▲ or ▼ until you see the code number you want to use.

To turn off the quiet code feature, hold down **FUNC** and repeatedly press or hold ▲ or ▼ at the same time until the quiet code number disappears.

QUIET CODE CHART

CTCSS No.	Frequency (Hz)	CTCSS No.	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

Operation

**NOTE****Using Scan**

- The radio automatically scans through quiet codes while scanning through the channels. The quiet code feature automatically turns on when a signal is detected on a channel and quiet code, and turns off after the signal disappears.
- During scan, the radio will not receive Direct Call data.

Using Key Tone

When you do not press a key after 20 seconds, while in the Menu, the radio exits the Menu without saving your settings.

USING SCAN

Press and hold ▲ or ▼ to scan up and down to find the desired channel and quiet code. The radio automatically scans through the channels and pauses on each active channel. While scanning, press ▲ or ▼ to change the scanning direction. Press **PTT** to stop scanning. ☑


USING KEY LOCK

To lock or unlock the keypad, hold down **FUNC** and press **PTT** to lock or unlock the keys. 🔒 appears when the keys are locked. When the keypad is locked, you can still transmit (press **PTT**), send a call (press **CALL**) or temporarily enable/disable Vox (press **PTT** when Vox level is 1–4).


USING KEY TONE

You can set the radio so it sounds a tone when you press any key except **PTT** or **FUNC**.

To turn on the key tone, press **MENU** to activate the Menu function and press ▲ or ▼ until 🎵 and **ON** appear. Press **PTT** to store the setting. ☑

To turn off the key tone feature, press the **MENU** key to activate the Menu function and press ▲ or ▼ until  and **OFF** appears. Press **PTT** to store the setting.

USING VOX

Vox operation allows you to transmit a voice message without pressing any key. To activate Vox, repeatedly press **MENU** until **VOX** appears. Press ▲ or ▼ to select the desired level (1–4) (i.e. Lo-Hi), select **OFF** to turn Vox off. Press **PTT** to store the setting. 

USING APO

You can set the radio to automatically turn off when the radio is idle (no key is pressed and nothing is transmitted or received) for 30, 60 or 90 minutes. To turn APO (Automatic Power Off) on/off, continually press **MENU** key until **AP0** and **30**, **60**, **90** or **OFF** appears. Press ▲ or ▼ to select the desired amount of time or **OFF**. If you select **OFF**, the radio does not automatically turn off. Before the radio shuts off, it beeps. To activate the radio, press any key. Make sure the radio is set to **ON** by setting the rotary switch to on, the radio beeps when you turn it on.

NOTE

- If you have selected a Vox level, the radio's backlight turns on for about 5 seconds when you press **PTT**.
- You still can send a page to other FRS radios in Vox mode when the keys are locked.
- When you do not press any key within 20 seconds after entering this mode, the radio exits the Menu without saving any changes.




**NOTE**

The Hi/Lo transmit selection is not available when using FRS Channels 8–14.

USING HI/LO TRANSMITTER POWER

You can set the radio transmit power to 0.5W or 1.0W. The transmit power of channel 8–14 is fixed at 0.5W only (FRS channel). To select 1.0W transmit power, make sure that the radio is not on channels 8–14 and then press **MENU** until **Lo** appears. If you select **OFF**, the radio transmit power is 1.0W; select **ON** to set the transmit power to 0.5W. If you do not press any key within 20 seconds after entering this mode, the radio exits the Menu without saving any changes.

USING COURTESY TONE

You can set your radio so the person you are communicating with will hear a tone when you finish transmitting. To turn on the radio courtesy tone, press **MENU** repeatedly.  appears and **ON/OFF** flashes on the display. **ON** appears when the courtesy tone is on and **OFF** appears when the courtesy tone is off. Press  or  to turn the courtesy tone on or off. Press **PTT** to store the setting.

USING A HEADSET

You can make or answer calls with handsfree convenience using an optional headset with a $\frac{3}{32}$ -inch plug (not supplied, available at your local RadioShack store). To connect a headset, insert the headset's plug into the **EAR/MIC** jack on the bottom of the radio. ☒

DIRECT CALL OPERATION

The Direct Call data includes the transmitter ID and receiver ID information. You can use the transmitter to select the receiver radio's ID number you want to call, and the receiver radio only receives the Direct Call data you select. The Direct Call data communication is based on the same Channel and CTCSS code setting. You cannot establish communication if the Channel and CTCSS code for both radios are not the same.

Direct Call data is sent when you press **CALL**. The radio transmits Direct Call data to the desired radio.



Using a Headset

Do not change your headset's mode (VOX or PTT) while the radio is in use and be sure to switch your radio off to reset it before switching between VOX and PTT.

Direct Call Operation

If a channel is being used by another user, your radio might miss Caller ID messages due to RF interference.

At the same time, the other radio checks the receiving Direct Call data at the same Channel and CTCSS code. If the Caller ID number matches its Home ID (Receiver ID number) or equivalent Group Call, then it recognizes that the call is addressed to this radio. As a result, the receiver will display the Sender ID number on the LCD and generate a call melody. There are five different call melodies to let the user determine who is transmitting a call.

After Direct Call transmission is completed, both radios (Transmitter and Receiver) will change their CTCSS code setting to Private code for 15 seconds. It is used to avoid interruption from original Channel and CTCSS code. During the 15-second period, both radios can only transmit and receive voice message at the original Channel with Private Code. Also, the ID icon on both radios flashes on the display to indicate this 15-second period. When the conversation is made within this period, the 15-second time out is extended for another 15 seconds. To exit the 15-second period, press **CALL** or wait for the 15 second time out.

After a 15-second time out, both radios are restored to their original settings

and the display reverts back to the display without the Direct Call function.


On the other hand, if you do not press any key on the receiver after a Direct Call is received, its LCD display continues showing the received ID number and **MISS ID** (Missed ID) flashes until you press any key (except **FUNC**). Also, the radio generates a beep to remind you that there is an incoming call and it continues beeping once every 10 minutes for a period of 30 minutes. To stop the beeps, press any key except **FUNC**.

 **NOTE** 


- If you do not press a key within 20 seconds when setting the Home ID, the radio automatically exits Home ID without saving your settings.
- If Home ID is changed, the radio automatically resets the Direct Call number to Group Call.
- If you press ▲ or ▼ to change the Direct Call number and the number is equal to the Home ID. Then the next Direct Call number in order will appear to prevent any conflict of Home ID and Direct Call.

SETTING HOME ID

Home ID data allows you to enter the ID number that will appear on the receiving radio as you communicate with it. You can select Home ID numbers 1–16.

1. Set the transmitter and receiver to the same channel (and same quiet code, if you select one)
2. Hold down **FUNC** and press **CALL** to enter Setting Home ID mode. Release all keys and then press ▲ or ▼ to select your desired Home ID number.
3. Press **PTT** to store the setting. 

SETTING DIRECT CALL

Direct Call data allows you to enter the receiver's radio ID number that you want to call. The radio's receiver only receives the Call when the Direct Call data is matched with it's Home ID. You can select Direct Call number 1–16 or Group Call. 

1. Hold down **CALL** until the Call ID number flashes on the display, press ▲ or ▼ to select the receiver's home ID number or Group option. (If you select

receiver's Home ID number 1-16, you can only send a page to one user or several users with the same ID home number). If you select **gP**, you can send a page to all users.

2. Press **PTT** to store the setting.

CALL MELODY

When you press **CALL** to send direct call data, a melody specific to the ID number sounds. The person using the radio you are calling also hears the melody specific to that caller ID. The melody and corresponding IDs are shown in the following table.

Call Melody No. ID	1	2	3	4	5
For Transmitter	Call ID = Group Call	Call ID = 1~4	Call ID = 5~8	Call ID = 9~12	Call ID = 13~16
For Receiver	Group Call	Sender ID = 1~4	Sender ID = 5~8	Sender ID = 9~12	Sender ID = 13~16

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 tip of the clip and pull out the clip.

**! IMPORTANT !
FCC Information**

Do not open your radio to make any internal adjustments. Your radio is set up to transmit a regulated signal on one of 22 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
(Continued)

**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 bottom 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. To locate your nearest RadioShack, use the store locator feature on RadioShack's website (www.radioshack.com), or call

1-800-The Shack (843-7422) and follow the menu options. 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

FCC LICENSE REQUIRED

The Federal Communications Commission (FCC) requires you to have a GMRS license before you operate this radio. To obtain a license, you must be at least 18 years of age, and cannot be a representative of a foreign government.

You must complete FCC Forms 605 and 159 (Fee Remittance Advice) and return them with the applicable fees and Payment/Fee Type Code (PAZR) to the FCC. To obtain the necessary forms, contact the FCC at:

*Federal Communications Commission
Wireless Bureau Applications
P.O. Box 358130
Pittsburgh, PA 15251-5130
1-888-CALLFCC (1-888-225-5322)*

! IMPORTANT !



(Continued)

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.

 **WARNING** 
There is a penalty for
any unlicensed
operation of a GMRS
radio.

To obtain instructions on filing form 605 electronically, go to *http://www.fcc.gov.wtb/uls*.

This radio is intended for communications from base-to-mobile or mobile-to-mobile stations. Base-to-base communication is not permitted.

When you receive your license from the FCC, you are assigned a call sign. You must give your call sign at the end of every communication exchange or once every 15 minutes during a continuous communication.

The Personal Radio Steering Group (PRSG) is the national user-advocacy organization for the GMRS. The (PRSG provides assistance with licensing and other information about the GMRS, including how to contact and communicate with other GMRS licensees.

*Personal Radio Steering Group
P.O. Box 2851
Ann Arbor, MI 48106
www.provide.net/prsg/*

THE FCC WANTS YOU TO KNOW

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

CAUTION

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 handset 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 (2.5cm) from your body.

Use only the supplied antenna. Unauthorized antennas, modifications, or attachments could damage the transmitter and may violate FCC regulations.

that to which the receiver is connected.

- Consult your local RadioShack store or an experienced radio/TV technician for help.

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.

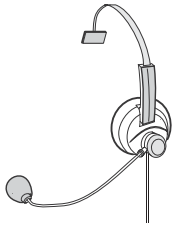
SPECIFICATIONS

Frequency Range	462.5500–467.7125MHz
Channels	22
RF Output Power	Hi power 1.0W ERP Lo power 0.5W ERP
Power Supply	6.0V DC (4 x AAA Batteries)
Battery Life	About 16 hours (using alkaline batteries)

Operation Temperature -4 to 122° F
(-20° to 50°C)
Dimensions (HWD) . 3.93 × 2.3 × 1.3 inches
(100 × 59 × 35 mm)
Weight 100 grams

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

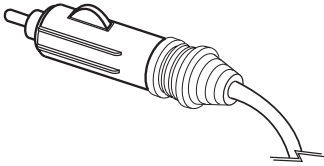
OPTIONAL ACCESSORIES



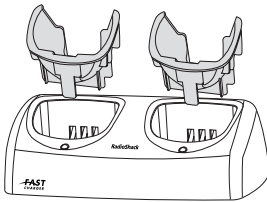
Headset with Mic



Alkaline Batteries



Cigarette-Lighter Adapter



Dual-Bay FAST Charger

Limited Ninety-Day Warranty

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