



22 CHANNEL MINI FRS/GMRS RADIOS



OWNER'S MANUAL KT2020

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device does not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

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.

WARNING: Adjustment to this unit or replacement of any transmitter component (crystal, semiconductor, etc.) to this unit could result in a violation of the rules.

NOTE: 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 connected.
- Consult the dealer or an experienced radio/TV technician for help.

IMPORTANT FCC LICENSING INFORMATION

This radio operates on CH 1~14 and CH 15~22. If you intend to operate the radio on CH 15 to CH 22, you should obtain a license before operating.

For information, please click in

<http://www.fcc.gov/wtb/prs/genmbl.html>

PRECAUTIONS DURING OPERATION



WARNING

- Never apply any DC power to the battery terminals.
- Do not attempt to charge any non-rechargeable batteries.
- Do not attempt to open the unit case.
- No user serviceable parts inside.
- Refer servicing to qualified service personnel.
- Do not modify or attempt to adjust the transceiver for any reason.
- Avoid extremes in exposure to water, heat and cold. This transceiver is weather resistant but not waterproof.
- Do not expose the transceiver to long periods of direct sunlight, nor place the transceiver close to heating appliances.
- Do not place the transceiver in excessively dusty areas, humid areas, wet areas, nor on unstable surfaces.
- If smoke is detected coming from the transceiver, immediately switch OFF the power and remove the batteries from the transceiver. Contact your dealer.



CAUTION

- Use batteries only for the power of the unit, Alkaline or Rechargeable batteries.
- To maintain compliance with the FCC's RF exposure guidelines, hold the transmitter and antenna at least 2 inches (5 centimeters) from your face and speak in a normal voice, with the antenna pointed up and away from the face. If you wear the handset on your body while using the headset accessory, use only the manufacturers supplied bell clip for this product and ensure that the antenna is at least 1/2 inch from your body when transmitting.
- Use only the supplied antenna. Unauthorized antennas, modifications, or attachment, could damage the transmitter and may violate FCC regulations.

FEATURES





- Range: Up to 2 Miles
- 22 Channels
- Multifunction LCD Display
- Auto Squelch Control
- Auto Power Saver Mode
- Talk Confirmation Tone/Roger Beep
- Call Function
- Monitor Function
- Low Battery Alert
- Removable Belt Clip

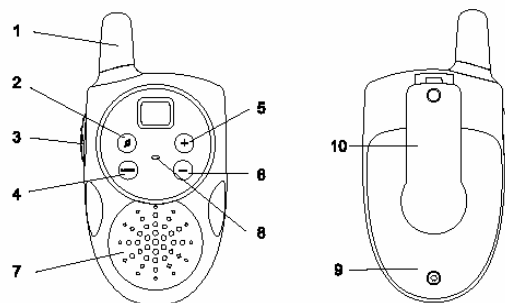
UNPACKING

Carefully unpack and identify the items listed below before discard the packing materials.




- Two KT2020 FRS Radios
- Instructional Manual & Warranty Card.

CONTROLS AND INDICATORS

1. Antenna
2. Call Button 
3. Push-To-Talk (PTT) Button
4. Menu Button 
5. Volume Up/Channel Up Button 
6. Volume Down/Channel Down Button 
7. Built-in Speaker
8. Built-in Microphone
9. Battery Door (on back)
10. Belt Clip (on back)



LCD DISPLAY

1. Volume/Channel Digit 
2. Scan Icon 
3. Volume Icon 



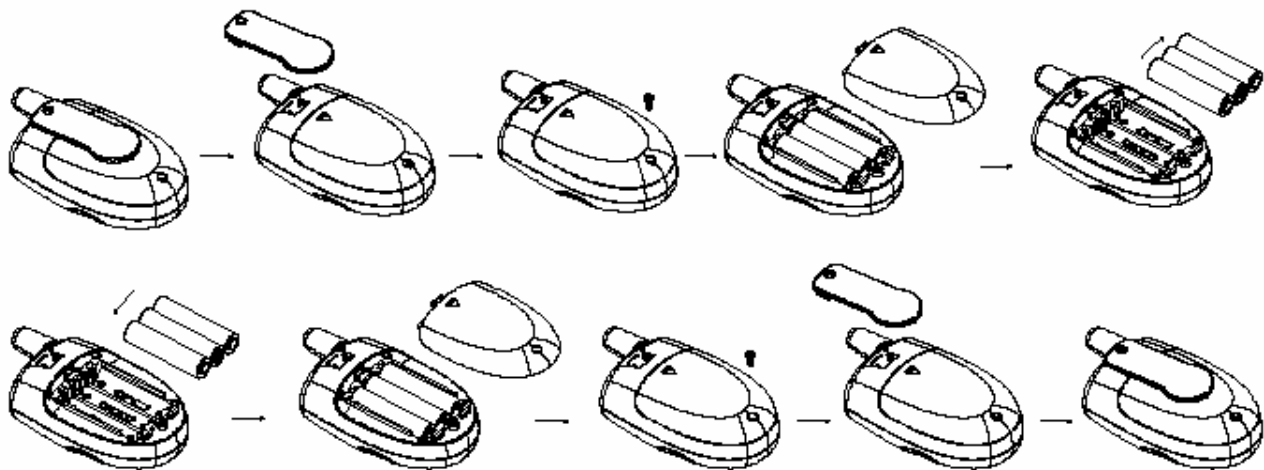
CHANNEL SPECIFICATION

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

BATTERIES INSTALLATION

Each FRS Radio operates on three 'AAA' size batteries.

1. Remove the Belt Clip (#10) by pressing on the release tab.



Remove the Battery Door (#9) by loosening the screw and unclipping the door

2. Following the polarity diagram shown inside the battery compartment, insert three 'AAA' size batteries (not included). Replace the Battery Door (# 9), tighten the screw and replace the Belt Clip (#10).











IMPORTANT: Be sure that the batteries are installed correctly.
Wrong polarity may damage the unit.

Note:

1. For best performance and longer operating time, we recommend the use of alkaline-type batteries.
2. Do not mix old and new batteries.
3. Do not mix alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries.











4. If the unit is not to be used for an extended period of time, remove the batteries. Old or leaking batteries can cause damage to the unit and will void the warranty.
5. Do not dispose of batteries in fire, batteries may explode or leak.
6. When the Low Battery Icon appears in the LCD Display, replace all 3 batteries with new ones.

BASIC OPERATION

1. Turn on the FRS Radio by pressing  until a channel number appears and a confirmation tone is heard.
2. Adjust to the desired volume level using the  or  Buttons. The display will flash and the letter “v” will show when volume adjust is active. A confirmation beep will be heard and the level of the beeps will increase or decrease as the volume is adjusted.
Note: The LCD Display will revert back to channel mode if no button is pressed within 5 seconds.
3. Press the  Button to activate the channel select mode. The channel display will begin flashing. Use the  or  Buttons to change channels.
4. Press the PTT button to confirm your selection.
Note: Both units must be set to the same channel number to communicate with each other.
5. The Call Button can be used to send a ring tone to another party on the same channel. Press the  Button once. The ring tone will be heard on both units and will sound for about 1.5 seconds.
6. Press and hold the PTT Button to communicate with another party on the same channel. Hold the radio 2-3 inches from your mouth and speak clearly into the microphone (#8).
Note: If the PTT Button is depressed for more than 1 minute, a tone will be generated and will sound continuously until the PTT Button is released.
7. When transmission is complete, release the PTT Button and listen for a reply. A Talk Confirmation/Roger Beep tone will be heard when the PTT Button is released. This lets the person you are talking to that you have finished talking and it is their turn to speak.
8. The FRS Radio is equipped with auto squelch, which will automatically block out any unwanted noise or static due to terrain conditions or if you have reached your range limit. You can disable to automatic squelch by pressing the  Button 3 times. Static will be heard along with any distant transmission you may be receiving. Press the  Button again to go back to the automatic squelch mode.
9. Turn off the FRS Radio by pressing and holding the  Button until a beep is heard and the display turns off.

SCANNING CHANNELS

You can use the scanning feature to monitor channels or to find someone in your group who has accidentally changed channels.

1. Press the  Button twice. The Scan icon "" appears with "Y" or "-" flashing in the display.
2. Press either  or  until "Y" displays and press PTT to turn scanning on.
3. When the radio detects channel activity, it stops scanning and you can hear the transmission. Press PTT to respond within 5 seconds.
4. If the scanning stops on a channel that you don't want to listen to, briefly press the  or  Button to resume scanning to the next active channel.
5. To turn scanning off, press the  Button twice followed by pressing  either or  until "-" displays. Press PTT to confirm.
6. Turn off the FRS Radio by pressing and holding the  Button until a beep is heard and the display turns off.

SPECIFICATIONS

<u>Description</u>	<u>Specifications</u>
Operating Channels	22
Operating Frequency Range	462.5625 to 462.7125 MHz 467.5625 to 467.7125 MHz 462.5500 to 462.7250 MHz
Talk Range	Up to 2 miles (3 km)
Output Power	0.5 W (FCC allowed maximum limit)
Power Source	'AAA' alkaline batteries x 3, 4.5V DC
Battery Life	About 25 hours (5/5/90 duty cycle)

NOTES FOR GOOD COMMUNICATIONS

1. Your FRS Radio uses 22 channels that are shared on a "take turns" basis. This means other groups may be talking on any of the channels. A common code of ethics/courtesy is to switch to another vacant channel and not to attempt to talk over someone who is already using the channel you first selected.
2. Your FRS Radios have been designed to maximize performance and improve transmission range in the field. To avoid interference, it is recommended that you do not use the units closer than 5 feet apart.
3. For best transmission results, always keep your mouth about 2-3 inches from the Microphone (# 8) and speak slowly and clearly in a normal voice.

CARE AND MAINTENANCE

1. Clean your unit with a damp (never wet) cloth. Solvent or detergent should never be used.
2. Avoid leaving your unit in direct sunlight or in hot, humid or dusty places.
3. Keep your unit away from heating appliances and sources of electrical noise such as fluorescent lamps or motors.

REVELANT GUIDELINES AND STANDARDS

1. Technical Regulations of Part 15 and 95 of the FCC Rules.
2. Type Acceptance Requirements of Part 2 of the 47CFR Regulations.

CARE AND SAFETY

To assure optimal radio performance and to ensure RF energy exposure is within the guidelines of the above standards, the following operating procedures should be observed:

FOR PORTABLE 2-WAY FRS RADIOS

- When transmitting with a portable radio, hold radio in a vertical position with its microphone 1-2 inches away from your mouth. Keep antenna at least 1 inch from your head and body.
- If you wear a portable radio on your body, ensure the antenna is at least 1 inch from your body when transmitting.

ELECTRIOMAGNETIC INTERFERENCE/COMPATIBILITY

Most electronic devices are susceptible to electromagnetic interference (EMI) if inadequately shielded, designed or otherwise configured for electromagnetic compatibility.

- Turn off your radio in any facilities where posted notices instruct you to do so. Hospitals or health care facilities may be using equipment that is sensitive to external RF energy.
- Turn off your radio when on board aircraft when instructed to do so. Any use of the radio must be in accordance with airline regulations or crew instructions.



CAUTION

Damaged Antenna

Do not use any radio with a damaged antenna. If a damaged antenna comes in contact with the skin, a minor burn may result.

Batteries

Do not short circuit exposed terminals of any batteries with any conductive materials. In doing so, the material may become quite hot and cause property damage and/or body injury such as burns.



WARNING

Parts Replacement or Substitution

Replacement or substitution of parts other than those recommended by Spectra® may cause a violation of the technical regulations of part 95 of the FCC Rules, or violation of Type Acceptance requirements of Part 2 of the FCC Rules.

For Vehicles with an Air Bag

Do not place a portable radio in the area over an air bag or in the air bag deployment area. Air bags inflate with great force. If a portable radio is placed in the air bag deployment area and the air bag inflates, the radio may be propelled with great force and cause serious injury to occupants of vehicle.

Potentially Explosive Atmospheres

Turn your radio off when in any area with a potentially explosive atmosphere, unless it is a type especially qualified for such use. Sparks in such areas could cause an explosion or fire resulting in body injury or even death.

Batteries

Do not replace or charge batteries in a potentially explosive atmosphere. Contact sparking may occur while installing or removing batteries and cause an explosion.

Blasting Caps and Areas

To avoid possible interference with blasting operations, turn your radio off near electrical blasting caps or in a “blasting area” or in areas posted:” Turn off 2-way radio”. Obey all signs and instructions.

Note: Areas with potentially explosive atmospheres are often, but not always, clearly marked. They include fuelling areas such as below deck on boats, fuel or chemical transfer or storage facilities; areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

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