IMPORTANT SERVICE INFORMATION

Read this manual before attempting to setup or use
this instrument. It contains important information
regarding safe installation and use. Keep this
manual for future reference. Also save the carton,
packing and proof of purchase to simplify and
accelerate any needed action.

THIS SYMBOL IS INTENDED TO ALERT THE USER
OF THE PRESENCE OF IMPORTANT OPERATING
AND MAINTENANCE (SERVICING) INSTRUCTIONS
IN THE OWNER'S MANUAL.

BE-1438

CARTON CONTENTS

❑   One Two-Way Radio
❑   User-Replaceable Belt Clip *
❑   User's Manual

* - Attached to the unit at the time of packaging.

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FCC NOTICE

The FCC requires that you be advised of certain requirements involving the use of this device. 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 uses and can generate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that the 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 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 to an outlet on a circuit different from that to which the receiver is connected.
- Consult the manufacturer for technical assistance.

FCC INFORMATION: 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. Privacy of communications may not be ensured when using this equipment.

FCC WARNING: This equipment generates or uses radio frequency energy. Changes or modifications not expressly approved in writing may cause harmful interference and void the user's authority to operate this equipment.

SAFETY INFORMATION:

Your wireless hand-held portable transceiver contains a low power transmitter. When the Push-to-Talk (PTT) button is pushed it sends out radio frequency (RF) signals. In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for hand-held wireless devices.

IMPORTANT:

To maintain compliance with the FCC's RF exposure guidelines hold the transmitter and antenna at least 1 inch (2.5 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 supplied belt clip for this product and when transmitting, take it out of the belt to ensure that the antenna is at least 1 inch (2.5 centimeters) from your body.

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

FRS PRODUCT DESCRIPTION

The Family Radio Service (FRS) is the newest generation in personal two-way communications. FRS radios operate in a license-free radio band (no FCC license is needed for FRS operation), on any of the 14 license-free channels.

The FRS is a lightweight, compact two-way radio that can be used with family or friends at parks, shopping malls, sporting events, concerts, or any indoor or outdoor activity!
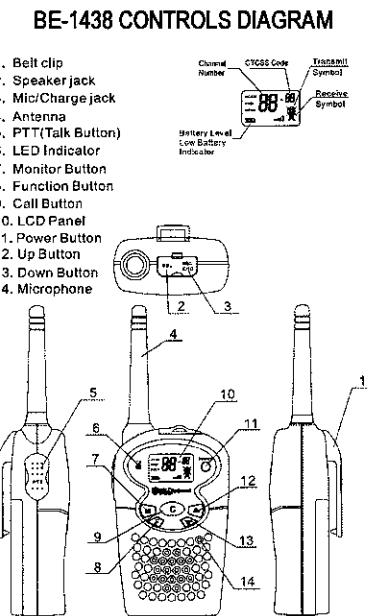
The FRS is compatible with other two-way radios using the FRS frequency band (operating in the frequency range from 462.5625 MHz to 467.7125 MHz).

The FRS is a 14-channel UHF two-way radio, featuring a multi-functional LCD panel (which indicates the current channel and various radio status icons). Other features also include electronic volume control and battery save circuitry.

Please read this user's manual thoroughly to get the most out of your FRS two-way radio.

> NOTE: The maximum transmission range will vary depending on terrain and environment. Range will be greater in open fields, while the range is shorter within / around buildings or large structures.

BE-1438 CONTROLS DIAGRAM

1. Belt clip
2. Speaker jack
3. Mic/Charge jack
4. Antenna
5. PTT(Talk Button)
6. LED Indicator
7. Monitor Button
8. Function Button
9. Call Button
10. LCD Panel
11. Power Button
12. Up Button
13. Down Button
14. Microphone

*NOTE: Optional external mic / external headset sold separately.

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DESCRIPTION

F (Menu) Button - Allows you to change channels and codes.

C (CALL) Button – Sends a tone to other radios that are tuned on the same channel.

Battery Compartment - Houses four "AAA" alkaline type batteries (not included).

Belt Clip - For your convenience, a belt clip is included to secure the radio to a belt or any other convenient location.

LCD (Liquid Crystal Display) Panel - A multi-functional display, which shows channel, code and other radio status/icons.

M (MONITOR) Button – Permits the radio to monitor weak signals and illuminates the LCD panel to show your current status.

MIC/CHG and SPK jacks – These jacks are used for optional accessories (*not included*)*.

PTT (Push To Talk) Button - Used for transmitting (making a call).

UP(▲) and DN(▼) Buttons - Used for changing channels, codes and volume.

POWER Button - Push and hold this button to turn on/off the unit.

TX LED Indicator - This indicator lights red when transmitting a call.

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INSTALLATION

Battery Installation

NOTE: Prior to removing the battery cover, remove the belt clip (see section *"Removing The Belt Clip"*).

1. Remove the battery cover by pressing the battery door release. Lift the battery door up and away from the unit.
2. Install four "AAA" type batteries (not included), following the polarities marked in the battery compartment.
3. Reinstall the battery cover.

NOTES:

- The FRS has a built-in power saver for maximum battery life. But when the FRS is not being used.
- Remove the batteries if the unit will not be used for a long period of time.
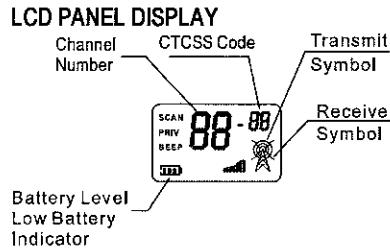
Installing the Belt Clip

1. Slide the belt clip into the belt clip slot.
2. Ensure you hear a click, to indicate that it is securely in place.

Removing the Belt Clip

While pulling the belt clip tab, push up on the belt clip to remove it from the unit.

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LCD PANEL DISPLAY

Channel Number — CTCSS Code — Transmit Symbol

Receive Symbol

Battery Level
Low Battery
Indicator

OPERATION

Turning the Unit ON
Press and hold the POWER button. An audible tone
will emit and the channel number will indicate on the
LCD panel

Turning the Unit OFF
Press and hold the POWER button. The LCD panel
will turn blank.

Adjusting the Speaker Volume
- Press the ▲ button to increase the volume.
- Press the ▼ button to decrease the volume.

Receiving a Call
When your FRS unit is turned on and is not being
used to transmit voice communication or pages, the
unit is continuously on receiving mode. When you
receive a call on the current channel you are using,
the LCD panel will show the receive icon.

Transmitting a Call
1.   Press and hold the PTT button to transmit.
      The TX LED will light up red and the LCD
      Panel will show the transmit icon.

2.   While holding the PTT button, speak in a normal voice about 2 to 3 inches away from the microphone.
3.   Release the PTT button when you have finished transmitting.

NOTE: In order for other people to receive your transmission, they must also be on the same channel and same code you are currently using. Refer to the "Selecting Channels and codes" section for more information.

Selecting Channels

The FRS has 14 available channels. To change channels:
1.   Press the F button, the channel numbers flashes on the LCD panel.
2.   While the channel number is flashing,
     Press the ▲ button to increase the channel number.
     Press the ▼ button to decrease the channel number.
3.   Press the F (function) button to confirm the desired channel.

NOTE: Refer to the "FRS Channel Table" section of this manual for detailed frequency listings.

Selecting CTCSS Code

This FRS has 38 available CTCSS Codes. Please set CTCSS Code in addition to Channel setting if you do not want to be bothered by someone else. To set CTCSS Code:
1.   Press the F button twice until the CTCSS number digit flashs. (Or press the F button again when you are in Channel Setting Mode.)
2.   While the CTCSS number is flashing:
     Press the Up button for a higher Code.

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Press the Down button for a lower Code.
3. Press the F button or PTT button to select the desired channel and CTCSS code, and return to normal mode.
NOTE: Refer to "CTCSS Code Table" section of this manual for detailed frequency listings.

Monitor
You can use the MONITOR feature to listen in for weak signals in the current channel.
- Press the M (monitor) button for normal monitoring.
- Press and hold the M (monitor) button for at least three seconds for continuous monitoring.
- To deactivate the monitoring feature press the M (monitor) button.

Battery Level / Low Battery Indication ▮▮▮
- The LCD panel displays the battery power level according to the number of squares inside the battery symbol.
- When the battery level is low, BE-1438 will warn you by displaying the Low Battery Indicator.(See Display indicator).

Calling (paging) the other radio
To send a page.
- Make sure both units are on.
- Press and release the C (call) button on the front of the radio

FRS CHANNEL TABLE

CHN	FREQ (MHz)	CHN	FREQ (MHz)
1	462.5625	8	467.5625
2	462.5875	9	467.5875
3	462.6125	10	467.6125
4	462.6375	11	467.6375
5	462.6625	12	467.6625
6	462.6875	13	467.6875
7	462.7125	14	467.7125

CTCSS Code– Continuous Tone Coded Squelch System

Code	Frequency(Hz)	Code	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	182.2
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

TROUBLESHOOTING

SYMPTOM	SOLUTION
Does not turn on.	• Check batteries. Ensure that the batteries are installed properly. • The batteries may be weak. Replace old batteries with four new "AAA" Alkaline batteries.
Reception is weak.	• Press the ▲ button to increase volume. • The receiving signal may be weak and out of range. If this happens, press the M (monitor) button.
Cannot change channels.	• To change channels, press and hold the F (function) button ,the channel number flashes on the LCD panel. Then, press the ▲/▼ buttons to select the channel.
Range is limited	• Batteries may be weak. Replace with new batteries if the battery level indicator is low. • The maximum range will vary depending on terrain and environment. Open fields provide the maximum range, while buildings and other structures may limit the range significantly.
Sound distortion problems	• If you are transmitting, speak in a normal tone of voice, 2 to 3 inches away from the microphone. • If you are receiving, lower the volume control to a comfortable level.

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