



MODEL BE-1438SP
14 CHANNEL
38 SUB-CODE
FAMILY RADIO SERVICE
TRANSCEIVER
SUPER VALUE PACK

OWNER'S MANUAL

Please read this instruction manual carefully.

Calling (paging) another radio 5
 Using the VOX feature 5
Super Pack Accessories5-6
 Headset 5
 AAA Alkaline Batteries 5
 Nylon Belt Pouch 5-6
 Travel Pack 6
 Water Resistant Pouch 6
Care and Safety6-7
 Maintenance6-7
Specifications 7
FRS Channel Table 7
Troubleshooting 7
Limited Warranty 8

Introduction

Congratulations on your purchase of the BE-1438SP (Super Pack). These compact, lightweight radios and accessories can be used at malls, parks, while at the beach, hiking, biking, or camping. You can talk to as many people as you want, as often as you like, without air time fees or a license.

Radio Control Locations

DESCRIPTION

Battery compartment - Houses four "AAA" alkaline or rechargeable type batteries.

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

CALL button – Sends a tone to other radios tuned to that channel and code.

Ear/Mic. jack – This jack is used to connect a 3.5 mm stereo headset/mic.

or unlock the buttons on the radio face.

MONITOR button – Permits the radio to continuously monitor weak signals and illuminates the LCD display to show your current status.

TALK button - Used for making a call.

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

SCAN button - Used to activate and deactivate channel scanning.

TX LED Indicator - This indicator lights when the radio is transmitting.

UP and DN buttons - Used for changing channels, codes, and setting the receive volume.

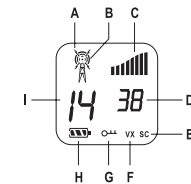


Table of Contents

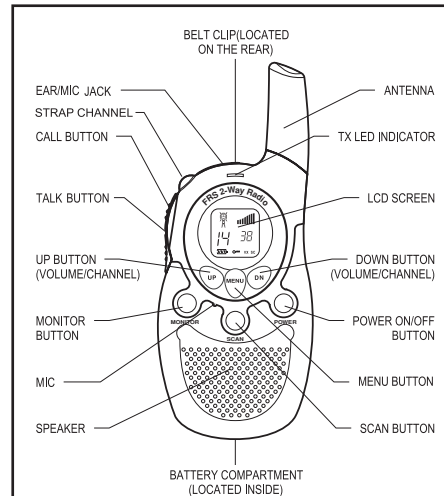
FCC Information 1
Introduction 2
Radio Control Locations 2
 Descriptions 2
Installation2-3
 Battery Installation2-3
 Installing the Wrist Strap 3
 Installing the Belt Clip 3
 Removing the Belt Clip 3
Operation3-5
 Turning the Power On and Off 3
 Adjusting the Speaker Volume 3
 Receiving a Call 3
 Transmitting a Call 4
 Selecting Channels 4
 Selecting the CTCSS Sub-Code 4
 Scanning Channels 4
 Monitor4-5
 Battery Level/Low Battery Indication 5

FCC Information

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Warning: Modifying or tampering with the radio's internal components can cause a malfunction and 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 Rules. This may invalidate the radio's warranty and void your FCC authorization to operate it.



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

MENU/Lock button - Allows you to change channels and sub-codes. Press and hold for five seconds to lock

A.	- RX icon. Displayed when receiving a signal.
B.	- TX icon. Displayed when transmitting a signal.
C.	- Displays the current Volume Level.
D.	- CTCSS sub-code. Selected by user from 1 to 38 codes.
E.	- Displayed during the Channel Scan mode.
F.	- Displays when the radio is set to be voice activated.
G.	- Press and hold the [MENU] button for five seconds until the Button Lock symbol is displayed.
H.	- Displays the current Battery Level charge.
I.	- Channel Number. Selected by user from 1 to 14 channels.

Installation

BATTERY INSTALLATION

1. Prior to removing the battery cover, make sure the belt-clip is removed (see "Removing The Belt-clip").
2. Release the battery cover catch located on the rear side of the radio by pushing on the tab.
3. Lift up the battery cover from the battery compartment.
4. Install four "AAA" type alkaline batteries (included) or rechargeable

“AAA” type batteries (not included); make sure to follow the polarities marked inside the battery compartment.

5. Reinstall the battery cover and the belt-clip.

Note: Remove the batteries if the unit will not be used for a long period of time.

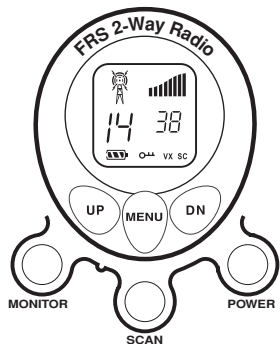
INSTALLING THE WRIST STRAP

1. Insert small loop of the wrist strap into the small round hole located on the top of the radio between the headset jack and the **CALL** button.
2. Make sure the loop runs up and out through the top of the belt-clip.
3. Insert the large loop of the wrist strap all the way through the small loop. The strap should now be secure.

INSTALLING THE BELT-CLIP

1. Insert the belt-clip hooks into the

Operation



TURNING THE POWER ON AND OFF

Turning the Unit ON

1. Press and hold the **POWER** button. The BE-1438SP radios will emit a short tone and the LCD screen will display F-5 and then the current channel.

Turning the Unit OFF

1. Press and hold the **POWER** button

TRANSMITTING A CALL

1. Press and hold the **TALK** button to transmit. The TX LED will light up red and the transmit icon will show in LCD Display.
2. While holding the **TALK** button, speak in a normal voice approximately six inches away from the microphone.
3. Release the **TALK** button when you have finished transmitting.

Note: In order to have two-way communication, all parties must transmit on the same channel and sub-code. Refer to the “Selecting Channels” and “Selecting the CTCSS Sub-Code” sections for more information.

SELECTING CHANNELS

The BE-1438SP radios have 14 available channels. To change channels:

1. Press the **MENU** button. The

1. Press the **MENU** button twice until the CTCSS sub-code digits flash (or press the **MENU** button again when you are in Channel Setting Mode).
2. While the CTCSS number is flashing:
Press the **UP** button for a higher Code.
Press the **DN** button for a lower Code.
3. Press the **MENU** button or **TALK** button to confirm your channel and CTCSS code selection and return to normal mode.

Note: Refer to “FRS Channel Table” CTCSS Code section of this manual for detailed frequency listings.

SCANNING CHANNELS

It is possible to scan the channels for one which is being actively used by using the following procedure:

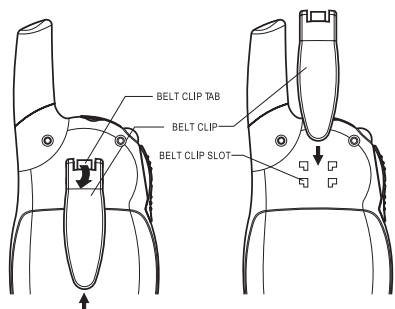


FIGURE 1
(REAR VIEW)

FIGURE 2
(REAR VIEW)

matching slots as shown above (Figure 1).

2. Slide the belt-clip down. A click indicates the Belt-clip is locked into position (Figure 2).

REMOVING THE BELT-CLIP

1. Push up on the belt-clip while squeezing the belt-clip tab.

for at least two seconds. The BE-1438SP radios will emit a tone and the LCD display will go blank.

ADJUSTING THE SPEAKER VOLUME

- Press the **UP** button to increase the volume.
- Press the **DN** button to decrease the volume.

The speaker volume level is indicated by the number of bars displayed in the upper right corner of the LCD.

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 set in receiving mode. When you receive a call on the current channel you are using, the LCD display will show the receive icon.

channel number flashes on the LCD display.

2. While the channel number is flashing:
Press the **UP** button to increase the channel number.
Press the **DN** button to decrease the channel number.
3. Press the **MENU** button to confirm the desired channel and move to sub-code programming, or press **TALK** to save and return to normal mode.

Note: Refer to the “FRS Channel Table” section of this manual for detailed frequency listings.

SELECTING THE CTCSS SUB-CODE

The BE-1438SP radios have 38 available CTCSS Sub-codes. Please set a CTCSS Code in addition to a Channel if you do not want to be bothered by other parties. To set the CTCSS Code:

1. Press the **SCAN** button to activate. The radio will scan rapidly through the 14 channels until an active channel is found.
2. When an active signal is detected, the radio pauses at that channel to broadcast the signal.
3. Press **TALK** to communicate through the active channel and leave Scan mode.
3. When an active channel is found but you wish to continue scanning, press **UP** or **DN** to bypass the current channel.
4. To deactivate scanning press the **SCAN** button again.

If the radio scans all channels without finding an active one, it will continue to loop unless some button is pressed to stop it.

MONITOR

You can use the Monitor feature to listen in for weak signals on the current

channel.

For normal monitoring, press the **MONITOR** button.

For continuous monitoring:

1. Press and hold the **MONITOR** button for at least three seconds.
2. To deactivate continuous monitoring press the **MONITOR** button.

BATTERY LEVEL / LOW BATTERY INDICATION

The LCD display shows the battery power level according to the number of squares inside the battery symbol.

When the battery level is low, the battery icon will flash to indicate that the batteries need to be changed.

CALLING (PAGING) ANOTHER RADIO

Call tones are used to request other people on the same channel to identify themselves or signal the beginning or end of a conversation. To send a page:

1. Press and release the **CALL** button on the left side of the radio. A page tone will sound to every radio on that frequency.

Note: In order for the paging feature to work, both radios must be on.

USING THE VOX FEATURE

The BE-1438SP radios are capable of voice activated (VOX) transmission. When this setting is on, you do not need to press the **TALK** button to transmit - transmission begins when any sound is heard near the microphone.

1. Press the **MENU** button until "VX" and "oF" are displayed on the LCD.
2. Press **UP** to activate the VOX feature. The "oF" will change to "On."
3. Press **MENU** or **TALK** to return to normal mode.
4. When in VOX mode, the "VX" icon

5

will display on the LCD screen.

5. To turn off voice activation, follow the same procedure only press the **DN** button to change the "On" to "oF" (Off).

Note: *VOX sensitivity is purposely set low so that extraneous noises are not picked up and transmitted. While in VOX mode, be sure to speak clearly and directly into the microphone, whether using a headset or not.*

Super Pack Accessories

HEADSET

The BE-1438SP radios can be used with a headset which has been included in the super pack for your convenience. Using a headset eliminates the need to use the built-in speaker and microphone on the radio. The BE-1438SP radios contain a headset jack located at the top of the

unit for this purpose.

1. Lift the protective rubber cover away from the radio.
2. Insert the the headset plug into the jack on the BE-1438SP radios.
3. Take care that the headset plug fits correctly into the jack on the unit.
4. Place the headset on your head and adjust the volume control on the radio as required.



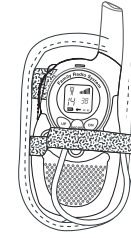
AAA ALKALINE BATTERIES

Eight AAA Alkaline batteries are included with this super pack. They will function for approximately 4 hours talk (continuous) time or 3 days standby time in the BE-1438SP radios.



NYLON BELT POUCH

The nylon belt pouches which come with BE-1438SP super pack are designed for more flexible use of your radio. It is recommended that you remove the belt-clip from the radio before inserting it into the belt pouch.



The belt pouch allows you to have the BE-1438SP radios handy without holding them in your hand. The secure design allows for attachment to your belt, or lets you hang the radio from around your neck if you use a chain or strap (not provided) while still being able to access the front panel. In the belt pouch, the radio is more secure and is easier to remove and replace at your leisure.

TRAVEL PACK

To easily carry the FRS radios, accessories, and possibly even a picnic lunch, use the included travel pouch, designed to attach snugly around your waist.

WATER RESISTANT POUCH

To protect your radio from moisture, place the radio in the water resistant ziplock pouch that was designed specially to fit the BE-1438SP radios. The radios work through the pouches.

Care and Safety

Caution: Do not operate the BE-1438SP radios at high audio volume levels when using it with a headset. Hearing experts advise against continuous high volume operation. If you experience a ringing in your ears, turn off the radio.

Warning: Do not operate this radio

6

in hazardous environments. Explosion or fire may result.

Do not operate this radio near unshielded electrical blasting caps. Under certain conditions, radios can interfere with blasting operations and may cause an explosion. Construction crews often use remote control RF devices to set off explosives.

IMPORTANT: Turn off your radio to prevent accidental transmission when in a "blasting area" or in areas posted: "Turn off two way radio".

MAINTENANCE

The BE-1438SP radios have been designed to give years of trouble-free service. To assure longevity, please read the following maintenance instructions.

1. To clean the radio, wipe with a soft cloth dampened with water. Do not use cleaners or solvents on the radio, they can harm the body and

- leak inside, causing permanent damage. Battery contacts should be wiped with a dry, lint free cloth.
2. If the radio gets wet, turn it off and remove batteries, immediately. Dry the battery compartment with a soft cloth to minimize potential water damage. Leave the cover off the battery compartment overnight or until completely dry. Do not use the radio until completely dry.
3. In case of trouble with the BE-1438SP radios, do not attempt to repair them yourself. It is the responsibility of users requiring service to report the need for service to our Service Department. They will make the necessary arrangements for repair or replacement.
4. If you should have questions about the operation of the BE-1438SP components, please call our Customer Service Department at 1-800-276-5844. You may also

contact TT Systems LLC for technical assistance via our Internet Website at www.ttsystems.com.

5. Please register your product online at:

www.ttsystems.com/CustomerSupport/RegOnline.asp

Specifications

Channels Available	14 Channels
CTCSS Sub-Channel	38 for each Channel
Output Power (TX)	.05W (FCC Maximum)
Battery Life	30 Hours (typical)
Range	Up to 2 miles

Troubleshooting

SYMPTOM SOLUTION

- | | |
|-------------------|--|
| Does not turn on | <ul style="list-style-type: none"> • Check that the batteries are installed properly. • The batteries may be weak. Replace old batteries with four new “AAA” batteries. |
| Reception is weak | <ul style="list-style-type: none"> • Press the UP button to increase volume. • The receiving signal may be weak and out of range. If this happens, press the MONITOR button. |
| Range is limited | <ul style="list-style-type: none"> • 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 |

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	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

- structures may limit the range significantly.
- Sound distortion
- If you are transmitting, speak in a normal tone of voice, approximately six inches away from the microphone.
 - If you are receiving, lower the volume control to a comfortable level.